TUGAS AKHIR

REDESAIN STRUKTUR GEDUNG D3 EKONOMI BLOK-B UNIVERSITAS ISLAM INDONESIA

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PERSEMBAHAN

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BAB I

PENDAHULUAN

1.1 Latar Belakang

Seiring pesatnya pembangunan konstruksi di Indonesia menuntut para lulusan sarjana agar mampu mengaplikasikan ilmunya secara maksimum di lapangan bukan hanya memiliki kemampuan secara teoritis saja.

Majunya perkembangan perangkat lunak komputer dalam analisis struktur seperti SAP 2000, ETAB dan STAAD yang mampu menghitung secara cepat dan tepat. Dan dalam pengerjaannya lebih mudah dan mampu menganalisis tiga dimensi. Program komputer analisis tersebut telah banyak digunakan dalam menghitung struktur di proyek-proyek di dunia. Maka dari itu setiap sarjana teknik sipil dituntut untuk menguasainya.

Untuk mengaplikasikan permasalahan ini penulis mengambil tugas akhir tentang perencanaan Gedung Kampus D-3 Ekonomi Universitas Islam Indonesia sebagai penerapan ilmu yang didapat di bangku kuliah untuk merencanakan suatu bangunan sebagai bekal untuk mempersiapkan diri dalam dunia kerja yang akan dijalani.

Lokasi gedung berada di Kompleks Kampus Terpadu Jl. Kaliurang Km. 14,4 Sleman Yogyakarta. Menurut Pedoman Perencanaan Ketahanan Gempa untuk Rumah dan Gedung, 1987, Daerah Istimewa Yogyakarta berada dalam wilayah gempa 3 yang memiliki resiko gempa cukup tinggi. Bedasarkan hal tersebut struktur utama gedung perlu dirancang tahan terhadap gempa, untuk mengurangi resiko kerusakan dan korban akibat gempa.

Perencanaan struktur beton bertulang tahan gempa, berdasarkan SK-SNI T-15-1991-03 menetapkan tingkatan daktilitas rencana, yang dibagi dalam tiga kelas yaitu tingkatan daktilitas 1 (elastis), tingkat daktilitas 2 (daktilitas terbatas), dan tingkat daktilitas 3 (daktilitas penuh). Pada tugas akhir ini struktur gedung ruang kuliah dan kantor kampus D3 Fakultas Ekonomi Universitas Islam Indonesia Yogyakarta. Direncanakan dengan daktilitas penuh.

1.2 Gambaran Umum dan Lokasi Gedung

Gedung kampus D3 Fakultas Ekonomi Universitas Islam Indonesia Yogyakarta terdiri dari 4 lantai dan 1 basement. Struktur utama gedung adalah beton bertulang, dan struktur rangka atap adalah baja. Luas keseluruhan gedung adalah 5.550 m^3.

Lokasi gedung Kampus D3 Fakultas Ekonomi Universitas Islam Indonesia terletak di Komplek Kampus Terpadu Jl. Kaliurang Km. 14,4 Sleman Yogyakarta.

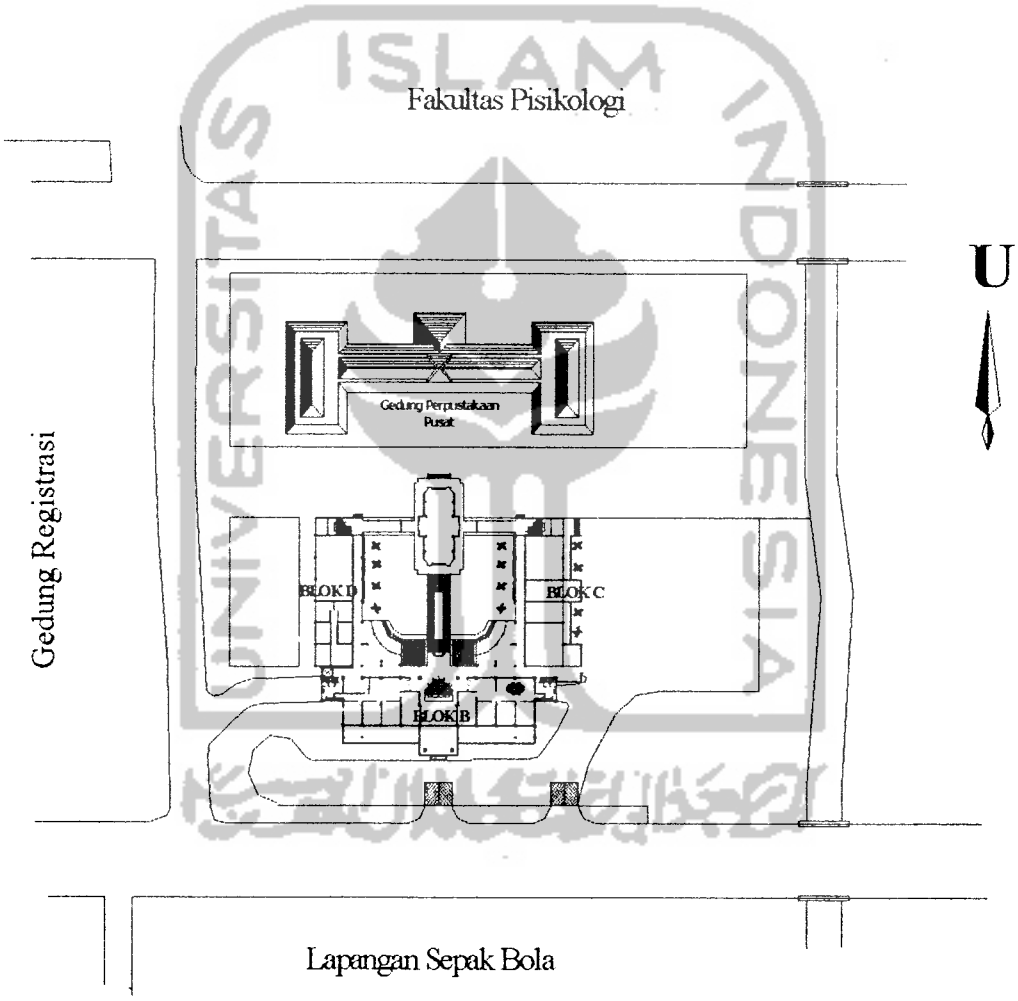
Adapun batas-batas lokasi gedung dijelaskan pada Gambar 1.1 (peta lokasi gedung) sebagai berikut :

a) Sebelah utara : Gedung Perpustakaan Terpadu Universitas Islam Indonesia

b) Sebelah timur : Lahan Kosong

c) Sebelah selatan : Lapangan Sepak bola

d) Sebelah barat : Gedung Registrasi



Gambar 1.1 Peta Lokasi Gedung D3 Ekonimi UII

1.3 Rumusan Masalah

Rumusan masalah tugas akhir ini adalah strukur beton bertulang tahan gempa yang memerlukan pendetailan khusus pada penulangan sehingga dapat berperilaku menahan gempa dengan baik. Perencanaan dengan daktilitas penuh.

1.4 Tujuan

Merencanakan struktur rangka baja atap dan struktur beton bertulang dengan SAP 2000 dan hitungan manual, sehingga dihasilkan perencanaan struktur yang stabil, efisein, aman, dan berguna sesuai dengan fungsi yang diharapkan,

1.5 Manfaat

Perencanaan ulang ini dimaksudkan untuk, memberikan tambahan pengetahuaan tentang tahapan perencanaan dan kesulitan dalam menganalisis perencanaan pada suatu kontruksi bangunan gedung bertingkat.

1.6 Batasan Masalah

Batasan masalah perencanaan tugas akhir ini adalah :

a) Desain ulang berupa desain struktur gedung kampus D3 ekonomi Universitas Islam Indonesia

b) Perencanaan meliputi :

- Struktur rangka baja atap.
- Struktur pelat lantai dan pelat tangga
- Struktur portal beton bertulang terdiri dari ; balok dan kolom.

c) Data teknis, spesifikasi, dan persyaratan teknis perencanaan ditentukan terlebih dahulu.

d) Perencanaan struktur portal menggunakan daktilitas penuh.

BAB II

TINJAUAN PUSTAKA

Desain struktur dapat didefinisikan sebagai suatu paduan dari sains dan seni yang mengkombinasikan mengenai perilaku struktur denngan pengetahuan yang mendalam mengenai prinsip-prinsip statika, dinamika, mekanika bahan, dan analisis struktural, untuk menciptakan suatu stuktur yang aman dan ekonomis sehingga dapat berfungsi sesuai yang diharapkan. (Salmon dan Johson, 1992)

Setiap struktur merupakan perpaduan antara arsitektur dan teknik (rekayasa) sehingga memenuhi fungsi tertentu. Bentuk dan fungsi sangat erat kaitannya dan sistem struktur terbaik adalah salah satunya memenuhi kebutuhan calon pemakai disamping menarik, dan ekonomis. (Nawy, 1985)

Perencanaan struktur baja dengan metoda Load and Resistance Factor Design menggunakan beban-beban terfaktor serta membandingkan kekuatan yang diperoleh terhadap beban. Dalam kasus manapun, kekuatan tergantung pada keadaan batas atau modus kegagalan, seperti leleh, retak, dan tekuk. (Salmon dan Johson, 1992)

Beton bertulang adalah merupakan gabungan logis dari dua jenis bahan : beton polos, yang memiliki kekuatan tekan yang tinggi akan tetapi kekuatan tarik yang

rentan, batangan-batangan baja yang ditanamkan di dalam beton dapat memberikan kekuaan tarik yang diperlukan. (Wang dan Salmon, 1993)

Struktur yang direncanakan dengan peraturan-peraturan pembebanan gempa dapat menahan gaya gempa lebih besar, karena struktur tersebut direncanakan dan didesain dengan baik agar dapat berdeformasi sampai keadaan elastisnya tanpa menunjukkan keruntuhan. (Kusuma dan Andriono, 1997)

Daktilitas struktur pada hakikatnya adalah perbandingan antara simpangan maksimum rencana dengan simpangan luluh awal pada komponen struktur yang ditinjau. Standar SK SNI T-15-1991-03 menetapkan tingkatan daktilitas rencana untuk struktur beton bertulang yang dibagi dalam tiga kelas yaitu daktilitas penuh, daktilitas terbatas, dan elastis. (Dipohusodo, 1996)

Daktilitas berarti kemapuan suatu batang saat mengalami pembebanan bolak-balik di atas titk lelehnya tanpa mengalamii pengurangan dalam kemapuan kapasitas penampangnya. (Kusuma dan Andriono, 1997)

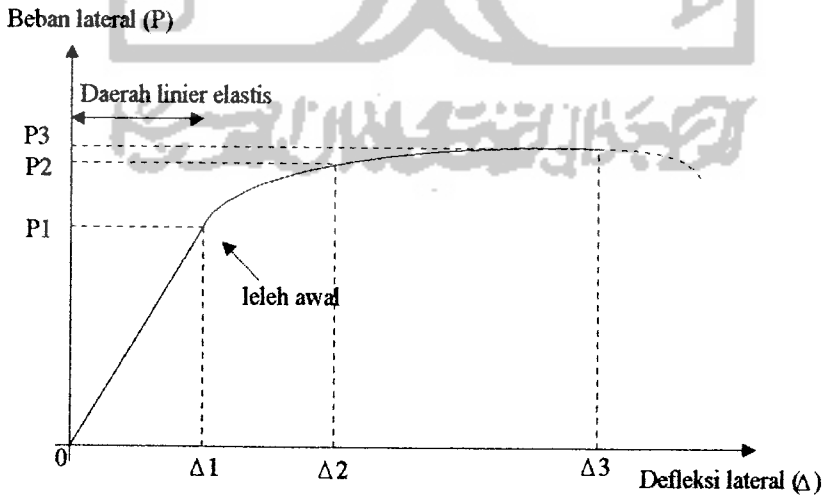
BAB III

LANDASAN TEORI

Landasan teori meliputi uraian mengenai tingkat daktilitas, dasar perencanaan struktur rangka baja dan dasar perencanaan struktur beton bertulang.

3.1 Tingkat Daktilitas

Daktilitas struktur pada hakikatnya adalah perbandingan antara simpangan maksimum rencana dengan simpangan luluh awal pada komponen struktur yang ditinjau, ditunjukkan pada Gambar 3.1 Kurva hubungan beban dan defleksi lateral suatu struktur, sebagai berikut. (Kusuma dan Andriono, 1997)



Gambar 3.1 Kurva hubungan beban dan defleksi lateral suatu struktur (Kusuma dan Andriono, 1997)

- Daktilitas tingkat 1 (elastis) : daktilitas simpangan struktur, $\mu = \Delta_1/\Delta_1 = 1$
- Daktilitas tingkat 2 (terbatas) : daktilitas simpangan stuktur, $\mu = \Delta_2/\Delta_1 = 2$
- Daktilitas tingkat 3 (penuh) : daktilitas simpangan stuktur, $\mu = \Delta_3/\Delta_1 = 4$

Standar SK SNI T-15-1991-03 menetapkan tingkatan daktilitas rencana untuk struktur beton bertulang, yang dibagi dalam tiga kelas sebagai berikut. (Kusuma dan Andriono, 1997) :

a) Tingkat daktilitas 1 (elastis)

Struktur beton bertulang diproposikan sedemikian rupa sehingga ketentuan tambahan atas penyelesaian detail struktur hanya sedikit. Struktur sepenuhnya berperilaku elatis, $\mu = 1$ (dimana μ adalah daktilitas simpangan struktur). Beban gempa rencana harus dihitung berdasarkan faktor $K = 4$, (K adalah faktor jenis strukur, suatu konstanta yang menggambarkan kemampuan respons inelastik struktur akibat bekerjanya beban gempa. Merupakan fungsi tipe struktur dan kemapuan daktilitas bahan .Semakin tinggi nilai K, semakin rendah kemapuan daktilitasnya.

b) Tingkat daktilitas 2 (terbatas) :

Struktur beton bertulang diproporsikan berdasarkan suatu ketentuan penyelesaian detail khusus yang memungkinkan struktur memberikan respons inelastik terhadap beban siklis yang bekerja tanpa mengalami keruntuhan getas,$\mu = 2$. Kondisi demikian dinamakan juga sebagai daktilitas terbatas. Dalam hal ini beban gempa rencana harus diperhitungkan dengan menggunakan faktor K minimum = 2.

c) Tingkat daktilitas 3 (penuh)

Struktur beton bertulang diproporsikan berdasarakan suatu ketentuan penyelesaian detail khusus yang memungkinkan struktur memberikan respons inelastik terhadap beban siklis yang bekerja dan mampu menjamin pengembangan mekanisme terbentuknya sendi-sendi plastis dengan kapasitas energi yang diperlukan tanpa mengalami keruntuhan, $\mu = 4$. Kondisi ini dinamakan juga sebagai daktilitas penuh. Dalam hal demikian beban gempa rencana harus diperhitungkan dengan menggunakan nilai faktor K minimum = 1.

3.2 Dasar Perencanaan Struktur Rangka Baja

Dasar perencanaan struktur rangka baja, pada struktur meliputi, peraturan-peraturan, dan perencanaan struktur baja.

3.2.1 Peraturan-Peraturan

Peraturan-peraturan yang digunakan dalam perencanaan antara lain sebagai berikut :

a) Tata Cara Perencanaan Struktur Baja Untuk Bangunan Gedung (AISC-LRFD93).

b) Pedoman Perencanaan Pembebanan Untuk Rumah dan Gedung 1987.

3.2.2 Analisis Struktur

Analisis struktur menggunakan program aplikasi komputer SAP2000, dengan input data-data koordinat-koordinat titik nodal sesuai bentuk dan ukuran struktur rangka atap, luas penampang profil, inersia profil, modulus elastisitas

baja E = 200000 Mpa sebagai data elemen-elemen batang, dan beban titik pada tiap titik buhul. Data-data keluaran program berupa reaksi dukungan dan gaya-gaya batang untuk kepentingan perencanaan.

3.2.3 Perencanaan Struktur Baja

Perencanaan struktur baja menurut Tata Cara Perencanaan Struktur Baja Untuk Bangunan Gedung (AISC-LRFD93) meliputi kombinasi pembebanan, perencanaan untuk lentur, perencanaan akibat gaya tekan, perencanaan akibat gaya tarik, perencanaan sambungan las dan baut.

1. Kombinasi Momen

Pembebanan menurut *Load and Resistance Factor Dsigen* (AISC-LRFD93) dengan kombinasi pembebanan dibawah ini :

$1{,}4\ M_D$ (3-1)

$1{,}2\ M_D + 1{,}6\ M_L$ (3-2)

$1{,}2\ M_D + 0{,}5\ M_L + 1{,}3\ M_W$ (3-3)

$1{,}2\ M_D + 0{,}5\ M_L - 1{,}3\ M_W$ (3-4)

$0{,}9\ M_D + 1{,}3\ M_W$ (3-5)

$0{,}9\ M_D - 1{,}3\ M_W$ (3-6)

dengan :

M_D = Momen akibat beban mati (beban dari elemen-elemen struktural dan tempelan permanen), Nmm

M_L = Momen akibat beban hidup (beban peralatan yang dapat bergerak), Nmm

M_W = Momen akibat beban angin, Nmm

2. Perencanaan Untuk Lentur

Perencanaan untuk lentur terdapat pada perencanaan gording, komponen struktur yang memikul lentur harus memenuhi kekuatan :

$$Mu \leq \phi . Mn \qquad (3\text{-}7)$$

dengan :

Mu = momen lentur terfaktor, Nmm

ϕ = 0,9 (faktor reduksi)

Mn = kuat nominal dari momen lentur penampang, Nmm

Kuat nominal ditentukan menurut penampang kompak, penampang tidak kompak, dan penampang langsing dengan ketentuan batas maksimal sebagai berikut :

- penampang kompak : $\lambda \leq \lambda p$
- penampang tidak kompak : $\lambda p < \lambda \leq \lambda p$

dengan

- untuk pelat sayap

$$\lambda = \frac{b_f}{t_f} \leq \lambda_p = \frac{170}{\sqrt{fy}}$$

- untuk pelat badan

$$\lambda = \frac{h_c}{t_w} \leq \lambda_p = \frac{1680}{\sqrt{fy}}$$

dengan :

- Penampang kompak

Kekuatan nominal Mn untuk penampang kompak, adalah :

$$Mn = Mp \qquad (3\text{-}8)$$

dengan :

Mp = kekuatan momen plastik = $Z.fy$, Nmm

Z = modulus plastik

fy = tegangan leleh yang ditentukan, Mpa

- Penampang tidak kompak

Kekuatan nominal Mn untuk penampang tidak kompak, adalah :

$$Mn = Mp - (Mp - Mr)\frac{(\lambda - \lambda p)}{(\lambda r - \lambda p)} \qquad (3\text{-}9)$$

a. Kontol tegangan

$$\frac{fb_x}{0{,}66.fy} + \frac{fb_y}{0{,}75.fy} \leq 1{,}0 \qquad (3\text{-}10)$$

dengan :

$$f = \frac{M}{Z}$$

f = tegangan yang terjadi, MPa

M = momen lentur terfaktor, Nmm

Z = modulus plastis, mm^3

fb_x = tegangan pada arah – x

fb_y = tegangan pada arh – y

b. Kontrol lendutan

$$\Delta = \frac{5}{384}.\frac{q.L^4}{E.I} + \frac{1}{48}.\frac{P.L^3}{E.I} \leq \frac{L}{360} \qquad (3\text{-}11)$$

dengan :

q = beban merata, N/mm

P = beban terpusat, N

E = modulus elatis baja, MPa

I = inersia profil, cm^3

3. Kontrol berat

$W < W_{taksiran}$ (3-12)

Dengan :

W = berat profil yang digunakan

$W_{taksiran}$ = berat prifil yang ditaksir

3. Perencanaan Akibat Gaya Tarik Aksial

a) Kuat tarik rencana

Komponen struktur yang memikul gaya tarik aksial terfaktor Pu, harus memenuhi

$$\frac{Pu}{\phi.Pn} \leq 1 \quad (3\text{-}13)$$

dengan :

ϕ = 0,9 untuk $Pn = Ag.fy$

ϕ = 0,75 untuk $Pn = Ant.fu$

Ag = luas penampang brutto, mm^2

Ant = luas penampang netto, mm^2

fy = tegangan ijin leleh, MPa

fu = tegangan tarik putus, Mpa

b) Syarat angka perbandingan kelangsingan batang tarik

$$\frac{k.L}{r} < 240 \qquad (3\text{-}14)$$

dengan :

k = 1, faktor panjang tekuk

L = panjang batang tarik, mm

r = jari-jari girasi profil, mm

4. Perencanaan Akibat Gaya Tekan Aksial

Suatu komponen struktur yang mengalami gaya tekan konsentrasi akibat beban terfaktor, Nu, harus memenuhi persyaratan kelangsingan sebagai berikut :

a) Syarat angka perbandingan kelangsingan batang tekan

$$\frac{k.L}{r} < 200 \qquad (3\text{-}15)$$

dengan : k = 1, faktor panjang tekuk L = panjang batang, mm

r = jari-jari girasi profil terkecil, mm

b) Syarat kuat tekan nominal terfaktor

$$\frac{Pu}{\phi.Pn} \leq 1 \qquad (3\text{-}16)$$

dengan :

ϕ = 0,85

Pn = kuat tekan nominal, N

Pu = gaya batang tekan hasil kombinasi faktor beban terbesar, N

c) Kuat tekan nominal dihitung sebagai berikut

$$\phi.Pn = \phi.Ag.(fy/\omega) \tag{3-17}$$

dengan :

untuk $\lambda c \leq 0{,}25$ maka $\omega = 1$

untuk $0{,}25 < \lambda c < 1{,}2$ maka $\omega = 1{,}43/(1{,}6\text{-}0{,}67\lambda c)$

untuk $\lambda c \geq 1{,}2$ maka $\omega = 1{,}25\ \lambda^2$

Keterangan :

Ag = luas penampangan brutto, mm^2

fcr = tegangan kritis penampang, MPa

fy = tegangan leleh baja, Mpa

$$\lambda_c = \frac{k.L}{\pi.r}\sqrt{\frac{fy}{E}} \tag{3-18}$$

dengan :

λc = parameter kelangsingan batang tekan

$k.$ = 1, faktor panjang tekuk

L = panjang batang, mm

r = jari-jari girasi terkecil dari profil, mm

fy = tegangan leleh baja, Mpa

E = modulus elastisitas baja, Mpa

6. Perencanaan Sambungan Baut

a) Kekuatan baut

Suatu baut yang memikul gaya terfaktor, Ru, harus memnuhi

$$Ru \leq \phi.Rn \tag{3-19}$$

dengan :

ϕ = faktor reduksi kekuatan

Rn = kuat nominal baut

b) Baut dalam geser

Kuat geser rencana dari satu baut dihitung sebagai berikut :

$$V_d = \phi_f . V_n = \phi_f . r_1 . f_u^b . A_b \qquad (3\text{-}20)$$

dengan :

r_1 = 0,5 untuk baut tanpa ulir pada bidang geser

r_1 = 0,4 untuk baut dengan ulir pada bidang geser

ϕ_f = 0,75 (faktor reduksi kekuatan untuk faktur)

f_u^b = tegangan tarik putus baut

A_b = luas brutto penampang baut pada daerah tak berulir

Kekuatan geser nominal baut yang mempunyai beberapa geser (bidang geser majemuk) adalah jumlah kekuatan masing-masing yang dihitung untuk setiap bidang geser.

c) Baut yang memikul gaya tarik

Kuat tarik rencana satu baut dihitung sebagai berikut :

$$T_d = \phi_f . T_n = \phi_f . r_1 . f_u^b . A_b \qquad (3\text{-}21)$$

dengan :

ϕ_f = 0,75 = faktor reduksi kekuatan untuk fraktur

f_u^b = tegangan tarik putus

A_b = luas bruto penampang baut pada daerah tak berulir

d) Kuat tumpu

Kuat tumpu rencana bergantung pada yang terlemah dari baut atau komponen pelat yang disambung. Apabila jarak lubang tepi terdekat dengan sisi pelat dalam arah kerja gaya lebih dari pada 1,5 kali diameter lubang, jarak antar lubang lebih besar daripada 3 kali diameter lubang, dan ada lebih dari satu baut dalam arah kerja gaya, maka kuat rencana tumpu dapat dihitung sebagai berikut,

$$R_d = \phi_f . R_n = 2{,}4 . \phi_f . d_b . t_p . f_u . \qquad (3\text{-}22)$$

dengan :

ϕ_f = 0,75 = faktor reduksi kekuatan untuk fraktut

d_b = diameter baut normal pada daerah tak berulir

t_p = tebal pelat

f_u = tegangan tarik putus yang terendah dari baut atau pelat

e) Tata letak baut

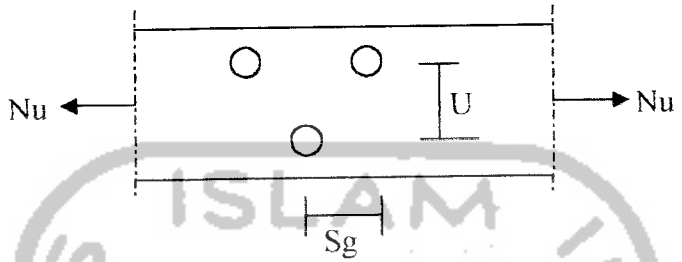
Tata letak baut harus memenuhi persyaratan :

- Jarak antar pusat baut tidak boleh kurang dari 3 kali diameter nominal baut
- Jarak antara pusat pengencang tidak boleh melebihi 15 t_p (t_p = tebal lapis tertipis didalam sambungan)
- Jarak tepi minimum : 1,75. d_b (tepi dipotong dengan tangan), 1,50. d_b (tepi dipotong dengan mesin) dan 1,25. d_b (tepi profil bukan hasil potongan)

  dengan d_b = diameter nominal baut
- Jarak tepi maksimum : 15. t_p dan 150 mm

f) Efek lubang baut terhadap luas netto penampang profil

Efek lubang baut mempengaruhi luas bersih penampang profil, dijelaskan pada Gambar 3.3



Gambar 3.3 Efek lubang-lubang tak segaris terhadap luas bersih

$$A_n = A_g - n.d.t + \frac{\Sigma S_g^{\,2}.t}{4.u} \qquad (3\text{-}23)$$

dengan :

A_n = penampang neto, mm^2

A_g = penampang brutto, mm^2

t = tebal penampang, mm

d = diameter lubang, mm

n = banyaknya lubang dalam garis potongan

S_g = jarak antara sumbu lubang pada arah sejajar sumbu komponen struktur, mm

u = jarak antara sumbu lubang pada arah tegak lurus sumbu komponen struktur, mm

7. Kegagalan Robekan pada Lubang Baut

Bila material yang direkatkan oleh baut tersebut cukup tipis, keadaan batas kegagalan robekan, yang dikenal sebagai geser balok, dapat mempengaruhi kekuatan suatu batang tarik seperti sambungan pada ujung suatu batang. Persamaan berikut ini dapat digunakan untuk mewakili kekuatan nominal *Tn* (Salmon dan Johnson, 1992).

a) Pelelehan geser-retakan tarik

$$Tn = 0{,}6.fy.Avg + fu.Ant \qquad (3\text{-}24)$$

b) Retakan geser-pelelehan tarik

$$Tn = 0{,}6.fu.Ans + fy..Atg \qquad (3\text{-}25)$$

dengan :

Avg = luas bruto yang mengalami pelelehan geser

= (panjang b-c) x tebal (lihat gambar 3.3)

Ant = luas bersih yang mengalami retakan tarik

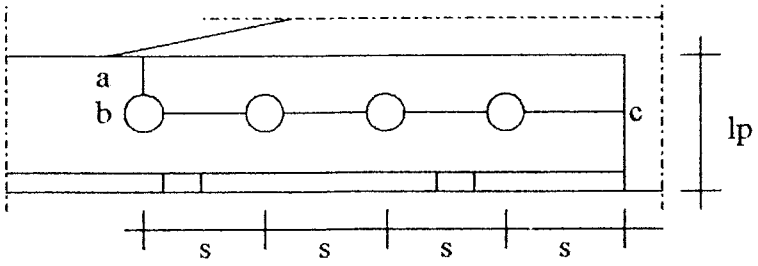
= (panjang a-b - luas lubang) x tebal (lihat gambar 3.1)

Ans = luas bersih yang mengalami retakan geser

= (panjang b-c - luas lubang) x tebal (lihat gambar 3.3)

Atg = luas brutto yang mengalami pelelehan tarik

= (panjang a-b) x tebal (lihat gambar 3.3)



Gambar 3.4 Daerah yang diarsir dapat terjadi kegagalan robekan

3.3 Dasar Perencanaan Struktur Beton Bertulang

Dasar perencanaan struktur beton bertulang meliputi, peraturan-peraturan, analisis struktur, perencanaan pelat, perencanaan struktur portal dengan daktilitas penuh dan terbatas, penulangan balok, dan penulangan kolom.

3.3.1 Peraturan-Peraturan

Peraturan-peraturan yang digunakan antara lain :

a) Tata Cara Perhitungan Struktur Beton Untuk Bangunan Gedung SK SNI T-15-1991-03.

b) Petunjuk Perencanaan Beton Bertulang dan Struktur Dinding Bertulang Untuk Rumah dan Gedung 1987.

c) Pedoman Perencanaan Pembebanan Untuk Rumah dan Gedung 1987.

d) Pedoman Perencanaan Ketahanan Gempa Untuk Rumah dan Gedung 1987.

e) Pedoman Beton Indonesia 1971.

3.3.2 Pembebanan

a) Beban mati

Beban mati sesuai dengan PPURDG 1987, ditetapkan seperi tercantum pada Tabel 3.1

Tabel 3.1 Beban Mati

No.	Jenis Material	Beban
1.	Beton bertulang	24 KN/m^3
2.	Tegel per	24 KN/m^3
3.	Spesi	21 KN/m^3
4.	Plafond	0,18 KN/m^3
5.	Aspal	14 KN/m^3
6.	Tembok	2,5 KN/m^3

b) Beban hidup

Beban hidup menurut PPURDG 1987, untuk ruang kuliah ditetapkan = 1,5 KN/m^2 dan beban hidup pekerja atap ditetapkan = 1 KN/m^2.

c) Beban gempa

Pembebanan gempa khusus pada portal, ditentukan berdasarkan persyaratan dan analisis gaya-gaya dalam struktur dalam batas elatisitas dengan pembebanan gempa menurut PPKGURDG 1987

$$Vb = C.I.K.Wt \qquad (3\text{-}26)$$

dengan :

Vb = gaya gempa dasar

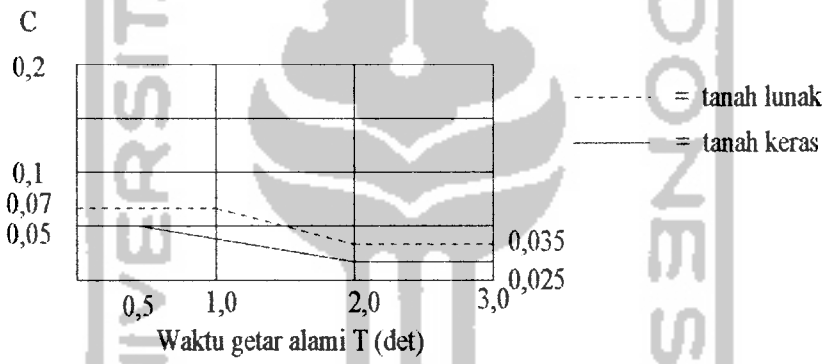
C = koefisien gempa dasar

I = faktor keutamaan struktur = 1,5 (bangunan sekolah)

K = faktor jenis struktur = 1,0 (portal daktail beton bertulang)

Wt = berat kombinasi beban mati keseluruhannya dan beban hidup vertikal yang direduksi

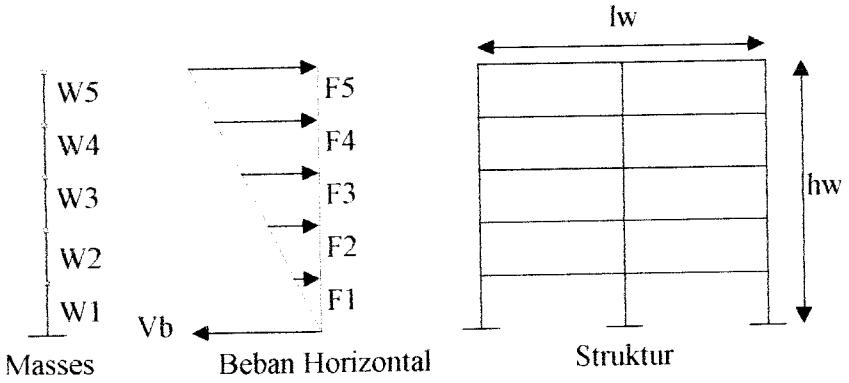
Koefisien gempa dasar ditentukan dari Gambar 3.4 untuk wilayah gempa 3 dengan memakai waktu getar alami struktur.



Gambar 3.5 Hubungan Koefisien gempa dasar dengan waktu getar struktur (PPKGURDG 1987)

Waktu getar alami (T) asumsi awal ditentukan untuk portal beton dengan rumus :

$T = 0{,}06\ H^{3/4}$ dengan H = tinggi struktur



Gambar 3.6 Pembebanan Gempa menurut PPKGURDG 1987

$$F_i = \frac{W_i.h_i}{\Sigma W_i.h_i}.V_b, \text{ untuk } \frac{h_w}{l_w} < 3{,}0 \qquad (3\text{-}27)$$

$$F_i = 0{,}9.\frac{W_i.h_i}{\Sigma W_i.h_i}.V_b + (0{,}1.V_b \text{ dipuncafk}), \text{ untuk } \frac{h_w}{l_w} < 3{,}0 \qquad (3\text{-}28)$$

dengan :

Fi = gaya gempa lantai ke-i

Wi = berat lantai ke-i

hi = tinggi struktur setiap lantai dari penjepit lateral

Distribusi ini mendekati ragam satu dengan suatu penyesuaian apabila ragam kedua atau ragam yang lebih besar mempengaruhi respon dinamis struktur dengan rasio tinggi dan lebar ≥ 3,0

Perhitungan waktu getar struktur dengan *T Rayleigh*, dihitung dengan rumus :

$$T = 6{,}3.\sqrt{\frac{\Sigma W_i.d_i^{\,2}}{g.\Sigma F_i.d_i}} \qquad (3\text{-}29)$$

dengan :

Wi = berat lantai ke-i

Fi = gaya gempa lantai ke-i

di = deformasi lateral total akibat Fi yang terjadi pada lantai j-i dari hasil perhitungan analisa struktur

g = percepatan gravitasi = 9,81 m/dt^3

3.3.3 Analisis Struktur

Analisis struktur menggunakan program aplikasi komputer SAP 2000, dengan input data-data koordinat-koordinat titik nodal sesuai bentuk dan ukuran portal, ukuran penampang balok dan kolom, modulus elastisitas beton E = 25700 Mpa sebagai data-data elemen, dan pembebanan titik dan merata. Data-data keluaran program berupa momen lentur, gaya geser, gaya aksial untuk kepentingan perencanaan balok dan kolom. (Wilson dan Habinullah, 1990).

3.3.4 Perencanaan Pelat

Perencanaan pelat dengan sistem pelat 2 arah ($Lx/Ly < 2$) dan system pelat 1 arah ($Lx/Ly \geq 2$), dengan ketentuan sebagai berikut.

a) Besar momen lentur dalam arah bentang pendek dan bentang panjang (PBI, 1971)

$$M = x.W_u.L_x^2 \qquad (3\text{-}30)$$

dengan :

W_u = beban merata terfaktor

x = koefisien momen menurut tabel koefisien momen (PBI 1971) yang tergantung kondisi tumpuan dan Ly/Lx

L_x = panjang bentang pendek

b) Analisis penulangan pelat

Analisis penulangan pelat dengan menganggap pelat adalah balok bertulangan tarik sebelah, dengan anggapan diagram regangan dan tegangan, kopel momen gaya-gaya dalam seperti dalam Gambar 3.7, langkah-langkah perhitungan sebagai berikut. (Kadir Aboe, 1998) :

- Hitung : $Mn = Mu / 0{,}8$ (3-31)
- Dari persamaan momen nominal

  $Mn = C.(d-a/2)$ (3-32)

  $Mn = 0{,}85.fc'.b.a.(d-a/2)$ (3-33)

  didapat persamaan kuadrat sebagai berikut :

  $0{,}85.fc'.b.a^2 - 2.0{,}85.fc'.b.d.a + 2.Mn = 0$ (3-34)

  didapat a
- Keseimbangan gaya dalam memberikan

  $C = T$ (3-35)

  $0{,}85.fc'.b.a = As.fy$ (3-36)

  jadi dapat ditentukan luas tulangan perlu

  $A_{s,perlu} = (0{,}85.fc'.b.a)/f_y$ (3-37)
- Untuk keperluan penulangan, dipilih yang terbesar antara $A_{s,perlu}$ dan $A_{s,min}$ (SK-SNI.1991)

  $A_{s,min} = 0{,}0025.b.h$ (3-38)
- Tentukan luas penulangan susut (SK-SNI,1991)

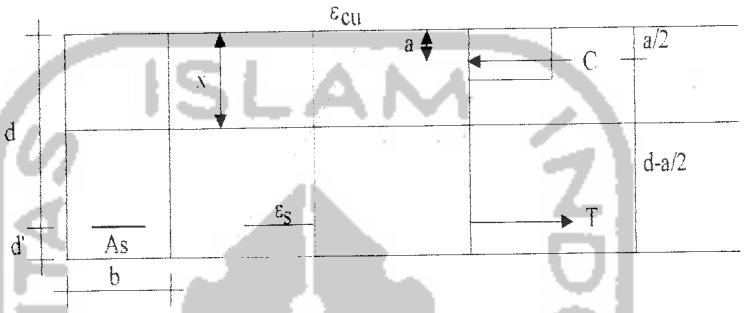
  $A_{s,min} = 0{,}0014.b.$ (3-39)

- Tentukan jarak antar tulangan pelat

$$S = (1/4.\ \pi.\varnothing^2.1000)/A_s \qquad (3\text{-}40)$$

dengan :

$\varnothing$ = diameter tulangan pelat



Gambar 3.7 Analisis Balok Bertulang Sebelah

3.3.5 Perencanaan Struktur Portal Beton Bertulang Dengan Daktilitas Penuh

Struktur dengan timgkat daktilitas tingkat 3 atau penuh harus direncanakan, terhadap beban siklis gempa kuat sedemikian rupa dengan pendetailan khusus sehingga mampu menjamin terjadinya sendi-sendi plastis dengan pemenaran energi yang diperlukan. Hal ini beban gempa rencana dapat diperhitungkan dengan menggunakan faktor jenis struktur, K minimum sebesar 1,0. (Kusuma dan Andriono, 1997)

Langkah-langkah perencanaan struktur portal beton bertulang dengan daktilitas penuh adalah sebagai berikut :

a) perencanaan balok portal terhadap beban lentur

Kuat lentur perlu balok portal yang dinyatakan dengan Mu,b harus ditentukan berdasarkan kombinasi pembebanan tanpa atau dengan beban gempa menurut SK-SNI-1991), sebagai berikut :

$$M_{u,b} = 1{,}2.M_{D,b} + 1{,}6.\ M_{L,b} \quad (3\text{-}41)$$

$$M_{u,b} = 1{,}05.(\ M_{D,b} + M_{L,b,R} + M_{E,b}) \quad (3\text{-}42)$$

$$M_{u,b} = 0{,}9.(\ M_{D,b} + M_{E,b}) \quad (3\text{-}43)$$

dengan :

$M_{D,b}$ = momen lentur balok portal akibat beban mati

$M_{L,b}$ = momen lentur balok portal akibat beban hidup

$M_{L,b,R}$ = momen lentur balok portal akibat beban hidup tereduksi (koefisien reduksi beban hidup menurut PPKGURDG 1987, pengguna gedung ruang kuliah = 0,9)

$M_{R,b}$ = momen lentur balok portal akibat beban gempa

Khusus untuk portal daktilitas penuh dihitung kapasitas lentur sendi plastis balok yang besarnya ditentukan sebagai berikut :

$$M_{kap,b} = \phi_0 .M_{nak,b} \quad (3\text{-}44)$$

dengan :

$M_{kap,b}$ = kapasitas lentur aktual balok pada pusat pertemuan balok kolom dengan memperhitungkan luas tulangan yang terpasang.

$M_{nak,b}$ = kuat lentur nominal balok berdasarkan luas tulangan yang terpasang.

ϕ_0 = faktor penambahan kekuatan yang ditetapkan sebesar 1,25 untuk fy < 400 Mpa, dan 1,40 untuk fy > 400 Mpa

fy = kuat leleh tulangan lentur balok

b) perencanaan balok portal terhadap beban geser

Sesuai dengan desain kapasitas, kuat geser balok portal yang dibebani oleh beban gravitasi sepanjang bentangnya harus dihitung dalam kondisi terjadi sendi-sendi plastis kedua ujung balok tersebut, dengan tanda yang berlawanan (positif dan negatif), menurut persamaan berikut (lihat pula gambar 3.8)

$$V_{u,b} = 1{,}05V_g + 0{,}7\frac{M_{kap,ki} + M_{kap,ka}}{l_n} \qquad (3\text{-}45)$$

tetapi tidak perlu lebih besar dari

$$V_{u,b} = 1{,}05.(V_{D,b} + V_{L,b} + (4{,}0/K).V_{E,b}) \qquad (3\text{-}46)$$

dengan :

$M_{kap,ki}$ = momen kapasitas balok berdasarkan tulangan yang sebenarnya terpasang pada ujung balok kiri atau bidang muka kolom kiri.

$M_{kap,ka}$ = momen kapasitas balok berdasarkan tulangan yang sebenarnya terpasang pada ujung balok kanan atau bidang muka kolom kanan.

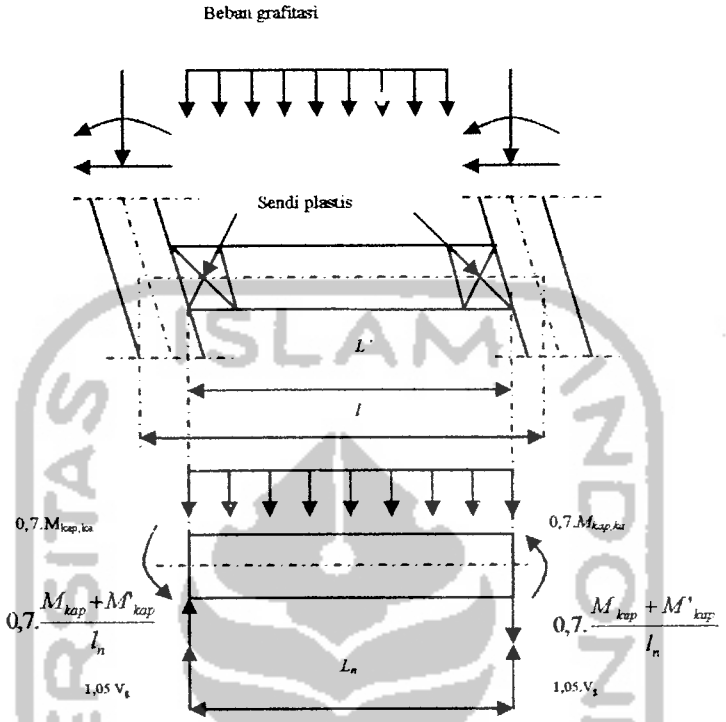
l_n = bentang bersih balok

$V_{D,b}$ = gaya geser balok akibat beban mati

$V_{L,b}$ = gaya geser balok akibat beban hidup

$V_{E,b}$ = beban geser balok akibat gempa

K = faktor jenis strukur ($K > 1{,}0$)



Gambar 3.8 Balok Portal dengan Sendi Plastis pada Kedua Ujungnya

3. Perencanaan Kolom Portal Terhadap Beban Lentur dan Aksial

Kuat lentur kolom portal dengan daktilitas penuh yang ditentukan pada bidang muka balok *Mu,k* harus dihitung berdasarkan terjadinya kapasitas lentur sendi platis pada kedua ujung balok yang bertemu dengan kolom tersebut, yakni sebagai berikut (lihat pula Gambar 3.9)

$$M_{u,k} = 0{,}7.\omega_d..\alpha_k.(M_{kap,ki} + M_{kap,ka}) \qquad (3\text{-}47)$$

Dalam segala hal, kuat lentur kolom portal harus memperhatikan pengaruh gempa arah tegak lurus portal sebesar 30% momen rencana kolom, dapat juga ditulis :

$$M_{u,k} = \frac{h}{h_n}.0,7.\omega_d.\alpha.\left[\begin{array}{l}\frac{l_{ki,x}}{l_{nki,x}}M_{kap,b,ki} + \frac{l_{ka,x}}{l_{nka,x}}M_{kap,b,ka} \\ +0,3.(\frac{l_{ki,y}}{l_{nki,y}}M_{kap.b.k.i.\perp} + \frac{l_{ka,y}}{l_{nka,y}}M_{kap,b,ka,\perp})\end{array}\right] \quad (3\text{-}48)$$

tetapi dalam segala hal tak perlu lebih besar dari :

$$M_{u,k} = 1,05.(M_{D,k} + M_{L,k} + (4,0/K).(M_{E,k} + 0,3M_{E,k,\perp}) \quad (3\text{-}49)$$

dengan :

h = tinggi kolom dari titik pertemuan ke titik pertemuan

h_n = tinggi bersih kolom

ω_d = faktor pembesar dinamis yang memperhitungkan pengaruh terjadinya sendi plastis pada struktur secara keseluruhan, diambil = 1,3 kecuali lantai 1 dan yang paling atas diambil = 1

α_k = faktor distribusi momen kolom portal yang ditinjau sesuai dengan kekakuan relatif kolom atas dan kolom bawah

faktor distribusi momen kolom portal dapat dihitung dengan rumus : (Kusuma dan Andriono, 1993).

– untuk faktor distribusi momen kolom atas

$$\alpha_{ka} = M_{E,k.lt\,i} + I_{atas} / (M_{E,k\,lt.i}\ i + I_{atas} + M_{E,k,kt,I,bawah})$$

untuk faktor distribusi momen kolom bawah

$$\alpha_{ka} = M_{E,k.lt\,i} + I_{bawah} / (M_{E,k\,lt.i}\ i + I_{bawah} + M_{E,k,kt,I,atas})$$

dengan :

l_{ki} = bentang balok sebelah kiri, dari titik pertemuan ke titik pertemuan

$l_{n,ki}$ = bentang bersih balok sebelah kiri

$l_{n,ka}$ = bentang balok sebelah kanan, dari titik pertemuan ke titik Pertemuan

$l_{n,ka}$ = bentang bersih balok sebelah kanan

$M_{kap,ki.}$ = momen kapasitas lentur balok sebelah kiri bidang muka kolom

$M_{kap,ka}$ = momen kapasitas lentur balok disebelah kanan bidang muka kolom

$M_{kap,ki.\perp}$ = momen kapasitas lentur balok disebelah kiri bidang muka kolom arah tegak lurus portal

$M_{kap,ka.\perp}$ = momen kapsitas lentur balok disebelah kanan bidang muka kolom arah tegak lurus portal

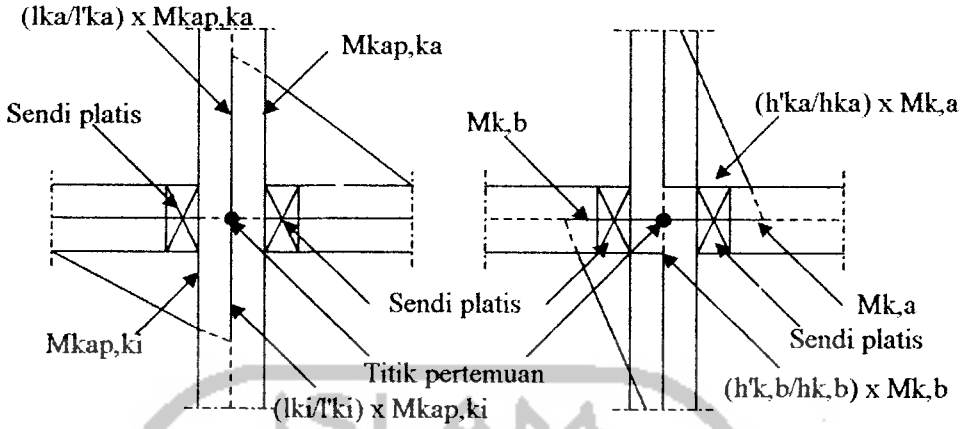
$M_{D,k}$ = momen pada kolom akibat beban mati

$M_{L,k}$ = momen pada kolom akibat beban hidup

$M_{E,k}$ = momen pada kolom akibat beban gempa

$M_{E,k,\perp}$ = momen pada kolom akibat beban gempa arah tegak lurus portal

K = faktor jenis struktur



Gambar 3.9 Pertemuan balok kolom dengan sendi platis pada ujung balok di sebelah kiri dan kanan

Sedangkan beban aksial rencana, *Nu,k* yang bekerja pada kolom portal dengan daktilitas penuh dihitung dari :

$$N_{u,k} = [0{,}7Rn\ (\Sigma M_{kap,b} + 0{,}3\,\Sigma M_{kap,b,\perp})]/I_b + 1{,}05.N_{g,k} \qquad (3\text{-}50)$$

tapi dalam segala hal tidak perlu lebih besar dari :

$$N_{u,k} = 1{,}05\ [N_{g,k} + (4{,}0/K)(N_{E,k} + 0{,}3\,N_{E,k,\perp})] \qquad (3\text{-}51)$$

dengan :

R_n = faktor reduksi yang ditentukan sebesar

1,0 untuk $1 < n < 4$

1,1-0,025n untuk $4 < n < 20$

0,6 untuk $n > 20$

n = jumlah lantai di atas kolom yang ditinjau

l_b = bentang balok dari pusat ke pusat kolom

$\Sigma M_{kap,b}$ = Mkap,b,ki + Mkap,b,ka

$\Sigma M_{kap,b,\perp}$ = Mkap,b,ki,⊥ + Mkap,b,ka,⊥

$N_{g,k}$ = gaya aksial kolom akibat beban gravitasi

$N_{E,k}$ = gaya aksial kolom akibat beban gempa

$N_{E,k,\perp}$ = gaya aksial kolom akibat beban gempa arah tegak lurus portal

4. Perencanaan Kolom Portal Terhadap Beban Geser

Kuat geser kolom portal dengan daktilitas penuh berdasarkan terjadinya sendi-sendi plastis pada ujung-ujung balok-balok yang bertemu pada kolom tersebut, harus dihitung dengan cermat sebagai berikut (lihat pula Gambar 3.10)

Untuk kolom lantai dasar

$$V_{u,k} = (M_{u,k\ atas} + M_{kap,k\ bawah})/h' \quad (3\text{-}52)$$

Untuk kolom lantai paling atas

$$V_{u,k} = (2\ M_{kap,h})/h' \quad (3\text{-}53)$$

Untuk kolom tiap lantai

$$V_{u,k} = (M_{u,k\ atas} + M_{u,k\ bawah})/h'_k \quad (3\text{-}54)$$

dan dalam segala hal tidak perlu lebih besar dari

$$V_{u,k} = 1{,}05\ [M_{D,k} + M_{L,k} + (4{,}0/K)\ (V_{E,k} + 0{,}3V_{kap,ki,\perp})] \quad (3\text{-}55)$$

dengan :

$M_{kap,k}$ = momen kapasitas kolom

$M_{u,k\ atas}$ = momen rencana kolom pada ujung atas dihitung pada muka balok menurut persamaan 3-44 atau 3-45

$M_{u,k\ bawah}$ = momen rencana kolom pada ujung bawah dihitung pada muka balok menurut 3-44 atau 3-45

$M_{kap,k\ bawah}$ = kapasitas lentur ujung dasar kolom lantai dasar = Øo Mnak,k bawah

$M_{nak,k\ bawah}$ = kuat lentur nominal aktual ujung dasar kolom lantai dasar (berdasarkan luas tulangan aktual yang terpasang)

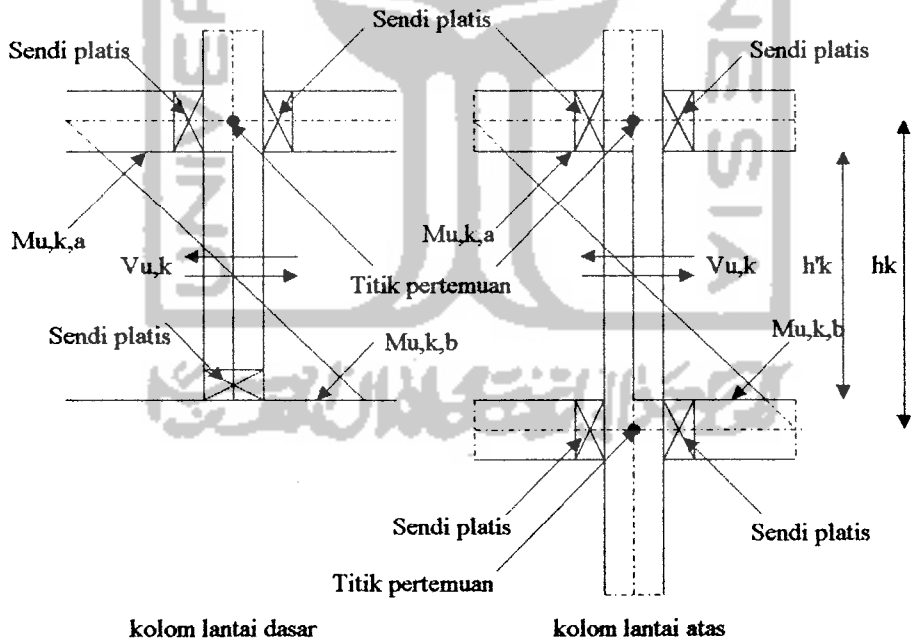
h'_k = tinggi bersih kolom

$V_{D,k}$ = gaya geser kolom akibat beban mati

$V_{L,k}$ = gaya geser kolom akibat beban hidup

$V_{E,k}$ = gaya geser kolom akibat beban gempa

$V_{E,k,\perp}$ = gaya geser kolom akibat beban gempa tegak lurus portal

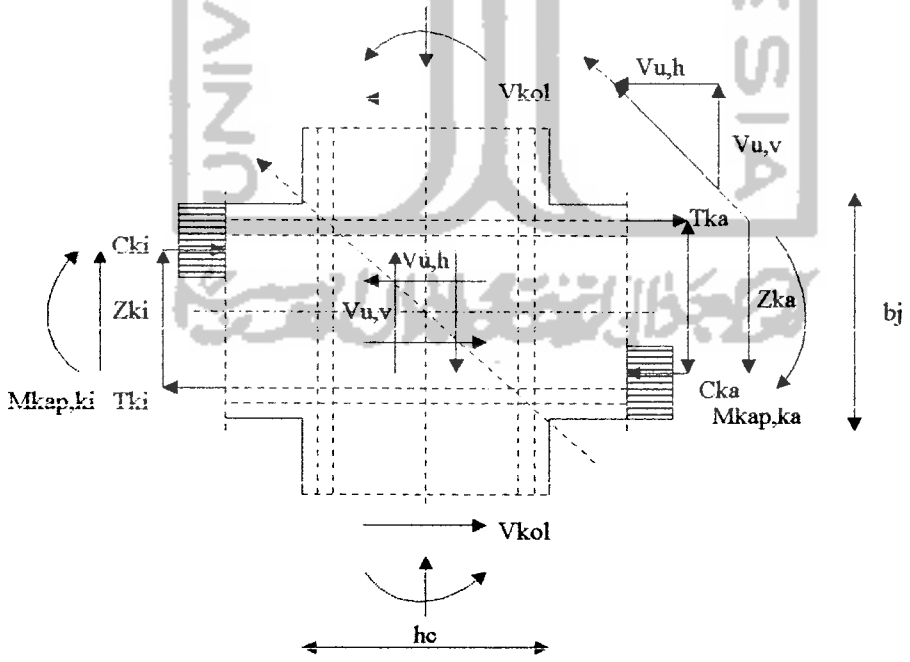


Gambar 3.10 Kolom lantai dasar dan kolom lantai atas dengan Mu,k yang ditetapkan berdasarkan kapasitas sendi platis balok

5. Perencanaan Panel Pertemuan Balok Kolom

Panel pertemuan balok kolomportal harus dipropersikan sedemikian rupa, sehingga memenuhi persyaratan kuat geser horizontal perlu *Vu,h* dan kuat geser vertikal perlu *Vu,v* yang berkaitan dengan terjadinya momen kapasitas pada sendi pada kedua ujung balok yang bertemu pada kolom itu, seperti ditunjukkan dalam Gambar 3.10.

Gaya-gaya membentuk keseimbangan pada join rangka adalah seperi yang terlihat pada Gambar 3.11, dimana gaya geser horizontal.



Gambar 3.11 Panel pertemuan balok dan kolom portal dalam kondisi terjadinya sendi-sendi platis pada kedua ujung balok

$$V_{jh} = C_{ki} + T_{ka} - V_{kol} \quad (3\text{-}56)$$

$$C_{ki} = T_{ki} = 0{,}70\,(M_{kap,ki}/Z_{ki}) \quad (3\text{-}57)$$

$$T_{ka} = C_{ka}\,0{,}70\,(M_{kap,ka}/Z_{ka}) \quad (3\text{-}58)$$

$$V_{kol} = 0{,}70\ \frac{((l_{ki}/l'_{ki})\,M_{kap,ki} + (l_{ka}/l'_{ka})\,M_{kap,ka})}{1/2\,(h_{k,a} + h_{k,h})} \quad (3\text{-}59)$$

Tegangan geser horizontal nominal dalam join adalah :

$$V_{jh} = V_{jh}/(b_j.h_c) \quad (3\text{-}60)$$

dengan :

b_j = lebar efektif join (mm)

h_c = tinggi total penampang kolom dalam arah geser yang ditinjau

V_{jh} tidak boleh lebih besar dari 1,5 $\sqrt{fc'}$ (Mpa)

Gaya geser horizontal V_{jh} ini ditahan oleh dua mekanisme kuat geser inti join, yaitu :

a) Strat beton diagonal yang melewati daerah tekan ujung join yang memikul gaya geser V_{ch}'

b) Mekanisme panel rangka yang terdiri dari sengkang horizontal dan strat beton diagonal daerah tarik join yang memikul gaya geser V_{sh}'

Besarnya V_{ch} harus diambil sama dengan nol kecuali bila :

a) tegangan tekan rata-rata minimal pada penampang bruto kolom beton di atas join, termasuk tegangan prategang, apabila ada, melebihi nilai 0,1fc', maka :

$$V_{ch} = 2/3\ \sqrt{(N_{u,k}/A_g)} - 0{,}1\,fc'.\,b_j.h_c \quad (3\text{-}61)$$

balok diberi gaya prategang yang melewati join maka :

$$V_{ch} = 0{,}7\,P_{cs} \quad (3\text{-}62)$$

dengan P_{cs} adalah gaya permanen dalam baja prategang yang terletak di sepertiga bagian tengah tinggi kolom.

b) Seliruh balok pada join dirancang sehingga penampang kritis dari sendi plastis terletak pada jarak yang lenih tinggi penampang balok diukur dari muka kolom maka :

$$V_{ch} = 0{,}5\ (As'/As)\ V_{jh}.(1 + (N_{u,k}/0{,}4.\ A_g.fc')) \quad (3\text{-}63)$$

dimana rasio As'/As tidak boleh diambil lebih besar dari satu.

Bila $\rho_c < 0{,}1\ fc'$ maka

$$V_{sh} = V_{jh} - 2/3\ \sqrt{(\ N_{u,k}\ /\ A_g)} - (0{,}1\ fc')\ b_{jh} \quad (3\text{-}64)$$

Pada join rangka dengan melakukan relokasi sendi plastis

$$V_{sh} = V_{jh} - 0{,}5\ (As'/As)\ V_{jh}.(1 + (N_{u,k}/0{,}4.\ A_g.fc')) \quad (3\text{-}65)$$

Luas total efektif dari tulangan geser horizontal yang melewati bidang kritis diagonal yang diletakkan di daerah tekan join efektif *bj* tidak boleh kurang dari :

$$A_{jh} = V_{jh}/fy \quad (3\text{-}66)$$

kegunaan sengkang horizontal ini harus didistribusikan secara merat di antara tulangan balok longitudinal atas dan bawah.

Geser join vertikal *Vjh* dapat dihitung dari :

$$V_{jv} = V_{jh}\ (h_c / h_j) \quad (3\text{-}67)$$

sedangkan tulangan join geser vertikal didapat dari :

$$V_{sv} = V_{jv} - V_{cv} \quad (3\text{-}68)$$

menjadi :

$$V_{cv} = A_{sc}' \frac{V_{sh}}{V_{sc}} \left[0{,}6. \frac{N_{u.k}}{A_g . fc'} \right] \qquad (3\text{-}69)$$

dengan :

A_{sc}' = luas tulangan longitudinal tekan

A_{sc} = luas tulangan longitudinal tarik luas tulangan join vertikal

luas tulangan sengkang vertikal tidak boleh kurang dari :

$$A_{jv} = V_{sw} / fy \qquad (3\text{-}70)$$

3.3.6 Penulangan Balok

a. Analisis Balok Terlentur Bertulang Rangkap

Penulangan lentur balok bertulang rangkap menyangkut penentuan kuat nominal lentur suatu penampang M_{nak}^{+} dan M_{nak}^{-} pada kedua ujung komponen balok dan penentuan momen nominal balok pada tengah bentang. Momen nominal aktual balok harus lebih besar atau sama dengan momen ultimit balok sebagai tanda tulangan lentur terpakai aman.

Langkah-langkah analisis penampang balok bertulang rangkap adalah sebagai berikut (Dipohusodo, 1996)

a) Tentukan rasio tulangan (ρ)

$$\rho_{min} < \rho \leq \rho_{maks}$$

$$\rho_b = \frac{0{,}85. fc'}{fy} \beta_1 \left(\frac{600}{600 + fy} \right) \qquad (3\text{-}71)$$

$$\rho_{min} = 1{,}4 / fy$$

$$\rho_{maks} = 0{,}75. \rho_b$$

dengan :

ρ = rasio tulangan

fc' = kuat desak beton

fy = tegangan leleh ijin baja

β_1 = 0,85 untuk fc' ≤ 30 Mpa

β_1 = 0,85 - 0,008.(fc'-30) untuk fc' > 30 Mpa

b) Anggap bahwa segenap penulangan meluluh, maka : $fs = fs' = fy$ dan $As_2 = As'$

c) Tentukan tinggi efektif balok

$$d' = p \text{ (selimut beton)} + \varnothing\text{tul. Sengkang} + 1/2.\varnothing\text{tul. lentur} \quad (3\text{-}72)$$

$$d' = h - d' \quad (3\text{-}73)$$

d) Tentukan As dan As' dengan cara berikut ini

Tentukan luas tulangan tarik (seimbang dengan beton tekan)

$$As_1 = \rho . b . d \quad (3\text{-}74)$$

hitung gaya tarik

$$T = As_1 . fy \quad (3\text{-}75)$$

untuk pasangan kopel gaya beton tekan dan tulangan tarik

$$Mn_1 = T_1.(d - a/2) \quad (3\text{-}76)$$

dengan :

$$a = \beta_1 . x$$

$$x = [\, 600 / (600 + fy) \,].d$$

Dari momen rencana balok Mu, didapat $Mn = 0{,}8Mu$

jika, $Mn_1 < (Mn = 0{,}8Mu)$

kelebihan Mn yang harus ditahan oleh tambahan tulangan tarik dan tulangan tekan.

$$Mn_2 = Mn - Mn_1 \quad (3\text{-}77)$$

$$Mn_2 = Cs.(d - d') \text{ atau } Mn_2 = T_2.(d - a/2) \quad (3\text{-}78)$$

$$T_2. = Cs = Mn_2/(d - d') \quad (3\text{-}79)$$

dianggap baja tekan leleh saat beton tekan mencapai regangan hancur 0,003 dan $fs' = fy$

Luas tulangan tekan :

$$As' = Cs / fs' \quad (3\text{-}80)$$

Tambahan luas tulangan tarik :

$$As_2 = T_2 / fy \quad (3\text{-}81)$$

Luas tulangan tarik :

$$As = As_1 + As_2 \quad (3\text{-}82)$$

e) Dengan menggunakan keseimbangan gaya-gaya dalam, hitunglah tinggi balok tegangan tekan = a

$$T = Cc + Cs \quad (3\text{-}83)$$

$$As.fy = 0{,}85.fc'.b.a + As'.(fy - 0{,}85.fc') \quad (3\text{-}84)$$

didapat a

f) Tentukan letak garis netral

$$x = a / \beta_1 \quad (3\text{-}85)$$

g) Dengan menggunakan diagram regangan memeriksa regangan tulangan baja tekan maupun tarik, untuk membuktikan apakah anggapan pada langkah awal benar.

$$\varepsilon_s' = [(x - d')/x]\varepsilon_{cu} \quad (3\text{-}86)$$

$$\varepsilon_s = [(d - x)/x]\varepsilon_{cu} \quad (3\text{-}87)$$

dengan menganggap $\varepsilon_s \geq \varepsilon_y$, yang berarti tulangan baja tarik telah meluluh, akan timbul salah satu dari dua kondisi berikut ini:

b. Kondisi 1: $\varepsilon_s \geq \varepsilon_y$ menunjukkan bahwa anggapan pada lankah awal batul dan tulangan baja tekan meluluh

b. Kondisi 2: $\varepsilon_s \leq \varepsilon_y$ menunjukkan bawa pada langkah awal tidak betul dan tulangan baja tekan belum luluh.

Kondisi 1:

h) Periksa rasio tulangan,

$$\rho = As_1/(b.d) \quad (3\text{-}88)$$

$\rho_{\min} < \rho \leq \rho_{maks}$,memenuhi syarat

i) Hitung kapasitas momen teoritis M_{nak}

$$Cc = 0{,}85.fc'.b.a \quad (3\text{-}89)$$

$$Cs = As'.(fy - 0{,}85.fc') \quad (3\text{-}90)$$

$$M_{nak} = Cc\,[d - (a/2)] + Cs\,(d\text{-}d') \quad (3\text{-}91)$$

$\phi M_{nak} \geq Mu$ -tulangan aman-

dengan $\phi = 0{,}8$

Kondisi 2:

h) Mencari letak garis netral, dengan mengacu gambar 3.10 dan 3.11 menggunakan keseimbangan gaya-gaya horizontal akan didapat nilai *x*,

$$T = Cc + Cs \quad (3\text{-}92)$$

$$As.fy = (0{,}85.fc').b.a + fs'.As' \quad (3\text{-}93)$$

Sedangkan

$$a = \beta_1.c \text{ dan } fs' = \varepsilon_s'.E_s = [(x-d).0{,}003/x]E_s$$

dengan melakukan beberapa subtitusi didapatkan

$$As.fy = 0{,}85.fc'.b.\ \beta_1.x + 0{,}003.\ [(x-d).0{,}003/x]E_s.As' \quad (3\text{-}94)$$

Apabila persamaan tersebut dikalikan dengan x, akan didapat:

$$As.fy.x = 0{,}85.fc'.b\,\beta_1.x^2 + x.0{,}003\,E_s.As' - d'.0{,}003\,E_s.As' \quad (3\text{-}95)$$

Setelah dilakukan pengelompokan, didapatkan persamaan

$$(0{,}85.fc'.b.\beta_1).x^2 + 0{,}003\,E_s.As' - As.fy).x - d'(0{,}003)\,E_s.As' = 0 \quad (3\text{-}96)$$

dengan memasukan nilai E_s = 200000 Mpa, persamaan menjadi:

$$(0{,}85.fc'.b.\beta_1).x^2 + (600.As' - As.fy) - 600.d'.As' = 0 \quad (3\text{-}97)$$

i) Menghitung tegangan pada tulangan baja tekan,

$$fs' = [(x-d')/x].600 \quad (3\text{-}98)$$

j) Priksa rasio tulangan,

$$As_2.fy = As'.fs' \quad (3\text{-}99)$$

$$As_1 = As - As_2 \quad (3\text{-}100)$$

$$\rho = As_1/(b.d) \quad (3\text{-}101)$$

$\rho_{min} < \rho \leq \rho_{maks}$,memenuhi syarat

k) Dapatkan a dengan menggunakan persamaan: $a = \beta_1.x$

l) Hitung kapasitas momen teoritis M_{nak},

$$Cc = 0{,}85.fc'.b.a \quad (3\text{-}102)$$

$$Cs = As'.(fy - 0{,}85.fc') \quad (3\text{-}103)$$

$$M_{nak} = Cc\,[d - (a/2)] + Cs\,(d\text{-}d') \qquad (3\text{-}104)$$

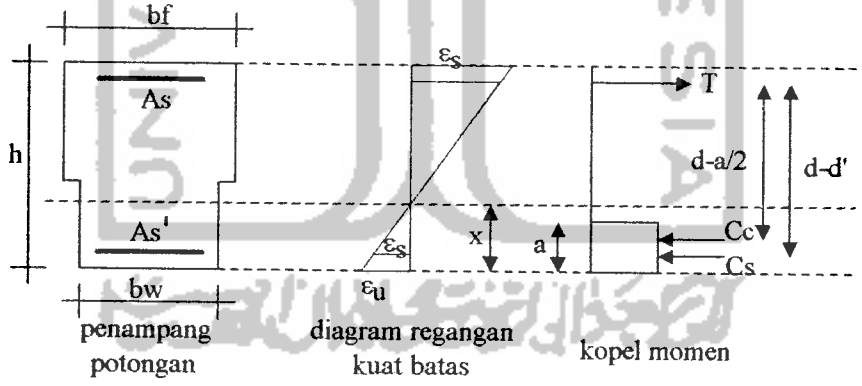
$\phi M_{nak} \geq Mu$ -tulangan aman-

dengan $\phi = 0{,}8$

Dari momen rencana balok didapat momen tumpuan negatif, momen tumpuan positif, dan momen lapangan. Dengan demikian masing-masing dianalisis berbeda sesuai letak penulangan masing-masing.

a) Analisis penulangan lentur tumpuan momen negatif

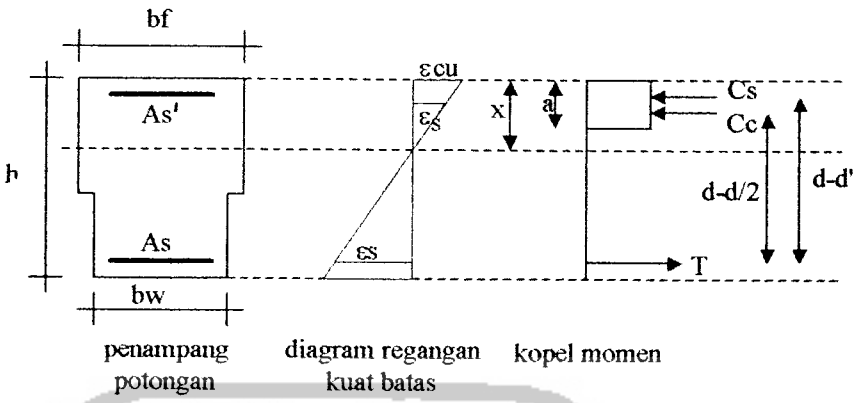
Pada momen tumpuan negatif maka *As* sebagai tulangan tarik berada di atas, dan *As'* sebagai tulangan tekan berada dibawah pada penampang balok, analisis tulangan rangkap sesuai Gambar 3.11 berikut ini.



Gambar 3.12 Analisis balok bertulang rangka tumpuan momen negatif

b) Analisis penulangan lentur tumpuan momen positif dan momen lapangan

Pada momen tumpuan positif dan momen lapangan, maka *As* sebagau tulangan tarik berada di bawah, dan *As'* sebagai tulangan tekan berada diatas pada penampang balok, analisis tulangan rangkap sesuai Gambar 3.12 berikut ini:



Gambar 3.13 Analisis balok bertulang rangkap tumpuan momen positif dan momen lapangan

b. Penulangan Geser Balok

Penulangan geser balok disesuaikan menurut perencanaan daktilitas penuh dan daktilitas terbatas.

a) Penulangan geser balok daktilitas penuh

Penulangan geser balok dihitung dengan rumus sebagai berikut. (Kusuma dan Andriono, 1993) :

$$V_{u,b}.\phi \leq V_c + V_s \qquad (3\text{-}105)$$

$$V_c = 1/6.\sqrt{fc'}.b_w.d \qquad (3\text{-}106)$$

$$V_s = (A_v.fy.d)/S \qquad (3\text{-}107)$$

dengan :

$V_{u,b}$ = gaya geser rencana balok

ϕ = 0,6

V_c = gaya geser yang ditahan oleh beton

V_s = gaya geser yang ditahan tulangan geser

fc' = kuat tekan beton

fy = tegangan ijin leleh baja

b_w = lebar badan penampang balok

d = tinggi efektif balok

S = jarak tulangan geser

- Penulangan geser pada daerah sendi plastis menimum 2.h dari muka kolom ke tengah bentang. $V_c = 0$
- Penulangan geser pada derah diluar sendi platis dari 2.h ke arah tengah bentang.

$$V_c = 1/6.\sqrt{fc'}.\ b_w.d \qquad (3\text{-}108)$$

- Jarak sengkang maksimum pada lokasi sendi plastis (SK-SNI, 1991)
  - d/4
  - 8.$Ø_p$. diameter tul. Pokok
  - 24 $Ø_s$. diameter sengkang
  - 200 mm
  - 1600.fy.As,l/[(As,a + As,b).fy]
  - Jarak sengkang maksimum di luar sendi plastis. D/2 (SK-SNI,1991)

3.3.7 Penulangan Kolom

a. Analisis Penulangan Lentur dan Aksial Kolom

Penulangan lentur dan aksial kolom dianalisis dengan menggunakan diagram interaksi kolom . Tulangan terdistribusi secara simetris dengan memperhatikan keserasian regangan. Misal: penampang dengan empat lapis tulangan (lihat Gambar 3.14) dengan gaya aksial tekan bekerja pada salah satu

sumbu utamanya. Jarak masing-masing tulangan terhadap serat beton yang tertekan d1 dapat ditentukan sebagai berikut (Wahyu dan Rahim, 1997) :

Untuk lapis pertama $As_1 : d_1 = d'$

kedua $As_2 : d_2 = d' + 1(h - 2d')/3$

ketiga $As_3 : d_3 = d' + 2(h - 2d')/3$

keempat $As_4 : d_4 = d' + 3(h - 2d')/3$

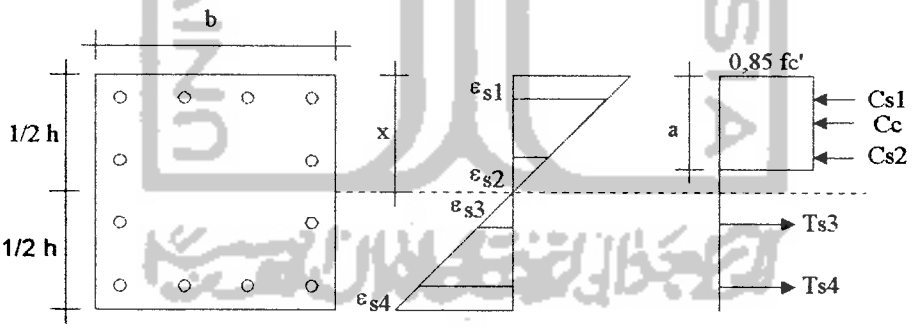
dengan melihat bentuk persamaan tersebut, dapat dibuat rumus umum untuk jarak tulangan di sebagai :

$$di = d' + [i - 1)(h - 2d')]/(N - 1) \qquad (3\text{-}109)$$

dengan :

i = nomir lapis tulangan

N = banyaknya garis tulangan



Gambar 3.14 Penampang dengan tulangan terdistribusi merata pada keempat sisinya

Besarnya regangan yang terjadi pada lapis tulangan ke-i, dapat ditetapkan melalui perbandingan segitiga, dengan regangan maksimum pada beton adalah 0,003. Dengan demikian untuk tulangan ke-i

$$\varepsilon_{si} = 0{,}003.[(x - di)/x] \quad (3\text{-}110)$$

Sebagaimana sebelumnya x adalah jarak sumbu netral terhadap serat terluar. Dengan memperhatikan persamaan tersebut, dapat diketahui bahwa harga εsi akan negatif untuk regangan tarik ataupun positif untuk regangan tekan.

Selanjutnya tegangan pada lapis tulangan ke-i dapat dirumuskan menjadi :

$$f_{si} = \varepsilon_{si} \,.\, E_s \quad (3\text{-}111)$$

$$f_{si} = 0{,}003.[(x - di)/x].200000 \quad (3\text{-}112)$$

Bila

$\varepsilon_{si} \geq fy / E_s$, maka $f_{si} = fy$

$fy / E_s > \varepsilon_{si} > -fy / E_s$, maka $f_{si} = \varepsilon_{si} \,.\, E_s$

$\varepsilon_{si} \leq -fy / E_s$, maka $f_{si} = fy$

Gaya pada tulangan ke-i, menjadi

$$Pi = f_{si} A_{si} \quad (3\text{-}113)$$

Dengan mengacu pada Gambar 3.13, dapat disusun persamaan keseimbangan :

$$Pn - Cc - \sum f_{si} A_{si} = 0 \quad (3\text{-}114)$$

$$Pn = 0{,}85 fc'.a.b - \sum f_{si} A_{si} \quad (3\text{-}115)$$

Momen terhadap pusat platisnya adalah :

$$P_n e = Cc.1/2.(h\text{-}a) + \sum_{i=1}^{n} f_{si} A_{si} (1/2.h - di) \quad (3\text{-}116)$$

Perlu diperhatikan bahwa bila :

$di < a$, maka harga $f_{si} = f_{si} - 0{,}85 fc'$

$di > a$, maka harga $f_{si} = f_{si}$

b. Analisi Keruntuhan Kolom

Analisi keruntuhan kolom dapat ditijnjau eksentrisitas kolom terhadap eksentrisitas balancenya.

a. Jika $e > e_b$ →keruntuhan akibat adanya gaya tarik, maka :

$$P_n = 0{,}85.fc'.b.d.\left[\frac{h-2.e}{2.d} + \sqrt{\left[\frac{h-2.e}{2.d}\right]^2 + 2.m.\rho_b.\left(1-\frac{d'}{d}\right)}\right] \qquad (3\text{-}117)$$

dengan :

$$\rho_b = \frac{0{,}85.fc'}{fy}.\beta_1.\left(\frac{600}{600+fy}\right)$$

$$m = \frac{fy}{(0{,}85.fc')}$$

jika $\phi.p_n < P_u$, jumlah tulangan harus diperbanyak.

b. jika $e < e_b$ → keruntuhan akibat adanya gaya desak, maka :

$$P_n = \left[\frac{As'.fy}{\frac{e}{(d-d')}+0{,}5}\right] + \left[\frac{b.h.fc'}{\frac{3.h.e}{d^2}+1{,}18}\right] \qquad (3\text{-}118)$$

jika $\phi.p_n < P_u$, jumlah tulangan harus diperbanyak

dengan :

$$a = \frac{P_n}{0{,}85.fc'.b}$$

$$c = a/\beta_1$$

$$f'_{sb} = \frac{600.(c-d')}{c} > fy$$

Penulangan dinyatakan aman jika memenuhi syarat :

$$Pu \leq \phi \; Pn \qquad (3\text{-}119)$$

dengan :

Pu = beban aksial rencana terfaktor

ϕ = 0,65 (faktor reduksi kekuatan menurut SK-SNI-1991)

c. Pengaruh Kelangsingan Kolom

Kelangsingan kolom berpengaruh kepada pembesaran kolom, syarat menurut SK-SNI-1991, kolom tidak langsing jika :

$\frac{k.L}{r} < 34 - 12.\frac{M_1 b}{M_2 b}$, untuk komponen struktur tekan yang ditahan terhadap goyangan kesamping.

$\frac{k.L}{r} < 22$, untuk komponen struktur tekan yang tidak ditahan terhadap goyangan kesamping.

Dengan :

k = faktor panjang efektif

L = panjang beban kolom tanpa penopang

r = $\sqrt{(I_g/A_g)}$ = jari-jari girasi

Faktor panjang efektif k merupakan fungsi dari faktor kekangan ujung ψ_a dan ψ_b untuk masing-masing titik ujung atas dan bawah yang didefinisikan sebagai.(Wang dan Salmon, 1993).

$$\psi = (\Sigma E.I_k/l_k)/(\Sigma E.I_b/l_b) \qquad (3\text{-}120)$$

Untuk EIk kekakuan batang kolom boleh ditetapkan sebagai :

$$E.I_k = (E_c I_g/2{,}5)/(1 + \beta_d) \quad (3\text{-}121)$$

Untuk Eib kekakuan batang balok boleh ditetapkan sebagai :

$$E.I_b = (E_c I_g/5)/(1 + \beta_d) \quad (3\text{-}122)$$

dengan :

E_c = $4700.\sqrt{fc'}$ = modulus elastisitas beton

I_g = Inersia penampang beton

β_d = rasio perbandingan momen beban mati terfaktor terhadap momen total terfaktor

Untuk menetapkan faktor panjang efektif kolom, maka dibedakan pada portal tidak bergoyang dan portal bergoyang.

Untuk portal tidak bergoyang, *British Code of Standard Practice*, 1972 menyarankan k digunakan harga terkecil dari persamaan berikut ini.

$$k = 0{,}7 + 0{,}05\,(\psi_a + \psi_b) \leq 1{,}0 \quad (3\text{-}123)$$

$$k = 0{,}85 + 0{,}05\,\psi_{min} \leq 1{,}0 \quad (3\text{-}124)$$

Untuk portal bergoyang, menurut rumus *Furlong* harga k ditentukan sebagai berikut ini.

$$k = \frac{20 - \Psi_{rata-rata}}{20}\sqrt{1 + \Psi_{rata-rata}} \quad \text{jika } \psi_{rata\text{-}rata} < 2 \quad (3\text{-}125)$$

$$k = 0{,}9.\sqrt{1 + \Psi_{rata-rata}} \quad \text{jika } \psi_{rata\text{-}rata} \geq 2 \quad (3\text{-}126)$$

d. Metode Pembesaran Momen pada Kolom Langsing

Pada kolom langsing dengan ketentuan $k.L < 100$, hitungan kekuatan kolom dilakukan dengan metode pembesaran momen. Perencangan dari kolom

tersebut didasarkan atas pembesaran momen yang bekerja sedemikian sehingga kolom tersebut bisa direncanakan sebagai kolom pendek (Sudarmoko, 1995)

Pembesaran momen dihitung dengan rumus (SK-SNI, 1991)

$$M_c = \delta_b M_2 b + \delta_s M_2 s \qquad (3\text{-}127)$$

dengan :

M_c = momen terfaktor yang digunakan untuk perencanaan komponen struktur tekan.

δ_b = faktor pembesaran untuk momen akibat beban yang tidak menimbulkan goyangan berarti.

δ_s = faktor pembesaran untuk momen akibat beban yang menimbulkan goyangan.

M_2b = momen terfaktor akibat beban yang tidak menimbulkan goyangan.

M_2s = momen terfaktor akibat beban yang menimbulkan goyangan.

Faktor δ_b dan δ_s adalah pembesaran momen yang secara empiris dapat ditentukan sebagai berikut :

$$\delta_b = \frac{C_m}{1 - \dfrac{Pu}{\phi Pc}} \geq 1{,}0 \qquad (3\text{-}128)$$

$$\delta_b = \frac{1}{1 - \dfrac{\Sigma Pu}{\phi . \Sigma Pc}} \geq 1{,}0 \qquad (3\text{-}129)$$

di mana Pc adalah beban tekuk Euler,

$$Pc = (\pi^2 . EI)/(k.L)^2 \qquad (3\text{-}130)$$

dan *Pu* adalah beban rencana aksial terfaktor, Σ*Pu* dan Σ*Pc* adalah jumlah untuk semua kolom dalam satu tingkat, C_m adalah faktor koreksi seperti ditentukan berikut ini.

Untuk komponen struktur portal tidak bergoyang dan tanpa beban transversal pada dukungan,

$$C_m = 0{,}60 + 0{,}40\ (M_1b / M_2b) \geq 0{,}40 \qquad (3\text{-}131)$$

e. Penulangan Geser Kolom

Penulangan geser kolom menurut SK-SNI-1991 dibagi menjadi dalam dua daerah yaitu dalam daerah *lo* dan luar *lo*. Daerah yang berpotensi terjadi sendi plastis adalah sepanjang *lo* dari muka kolom yang ditinjau dimana *lo* tidak boleh kurang dari :

- $lo \geq h$, bila $N_{u,k} \leq 0{,}3\,A_g.\,A_g$
- $lo \geq 1{,}5.h$, bila $N_{u,k} > 0{,}3.\,A_g.fc'$
- 1/6 bentang bersih kolom
- 450 mm

Penulangan geser kolom

- Penulangan geser dalam daerah lo

$$\frac{V_{u,k}}{\phi} \leq 0 + V_{s,k} \qquad (3\text{-}132)$$

dengan :

$V_{u,k}$ = gaya geser rencana kolom

ϕ = 0,6

$V_{s,k}$ = (Av.fy.d)/S

A_v = luas penampang tulangan sengkang

fy = tegangan ijin leleh baja

d = tinggi efektif kolom

S = jarak tulangan geser

Tulangan geser kolom harus dipasang pada daerah *lo* dengan jarak maksimum (SK-SNI-1991) :

- 1/4 dimensi komponen struktur terkecil
- 8.Ø kali diameter tulangan longitudinal
- 100 mm

- Penulangan geser luar daerah lo

$$\frac{V_{u,k}}{\phi} \le V_c + V_{s,k} \qquad (3\text{-}133)$$

dengan gaya geser yang ditahan beton :

$$V_c = \left[1 + \frac{N_{u,k}}{14.A_g}\right].\frac{1}{6}.\sqrt{fc'}\,b.d \qquad (3\text{-}134)$$

dengan :

N_u = gaya geser aksial yang terjadi pada kolom yang ditinjau

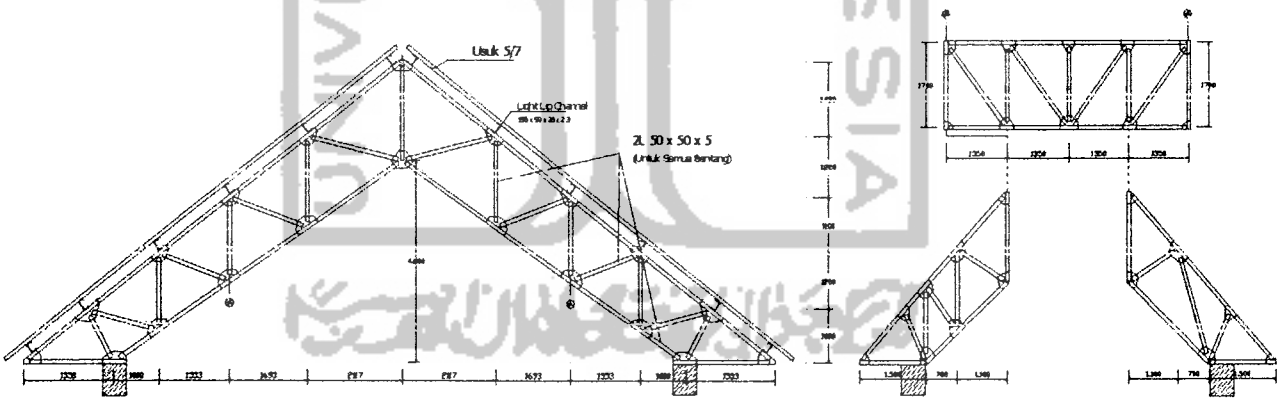
A_g = luas penampang kolom

b_w = lebar komponen kolom terkecil

BAB IV

PERENCANAAN ATAP

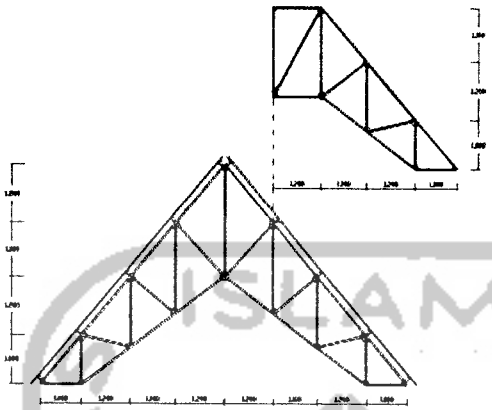
Perencanaan atap meliputi, perencanaan gording, perencanaan sagrod, dan perencanaan rangka baja atap, dengan metoda AISC-LRFD93 perencanaan atap disajikan dalam gambar dibawah ini.



Kuda-kuda I (KI)

Kuda-kuda I (KI)

Gambar 4.1 Rangkaian Profil Kuda-kuda 1



Gambar 4.2 Rangkaian Profil Kuda-kuda 2

4.1 Perencanaan Gording

Asumsi untuk perencanaan gording didasarkan pada gording yang menerima beban terbesar dengan bentang terpanjang dan desain struktur disamakan untuk semua gording

4.1.1 Pembebanan Gording

Pembebanan gording terdiri dari :

a. Beban Mati (DL).

- Penutup atap genting beton, usuk dan reng 60 Kg/m^2 x 1.65 m = 99 Kg/m'
- Berat sendiri gording = 10 Kg/m'

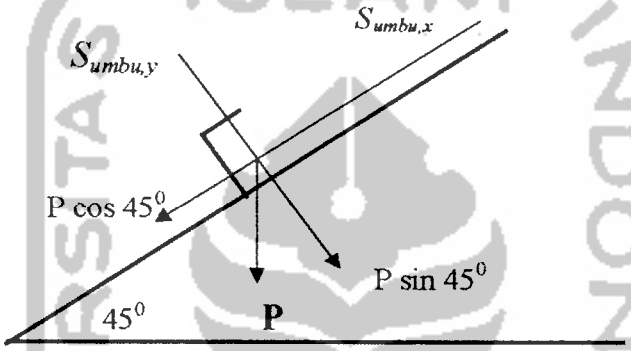
= 109 Kg/m'

b. Beben Hidup (LL)

- Beban Pekerja = 100 Kg

c. Beban Angin (WL).

- Angin Tekan $qt = (0{,}02\ \alpha - 0{,}4)\ .\ 60\ Kg/m^2 \times 1{,}65\ m = 49{,}5\ Kg/m'$
- Angin Hisap $qh = (-0.4) \times 60\ Kg/m^2 \times 1{,}65\ m = -39{,}6\ Kg/m'$



Gambar 4.3 Arah Pembebanaan Gording

Tabel 4.1 Pembebanan dan Momen Arah Sumbu X dan Sumbu Y Gording

Jenis Pembebanan	qx (Kg.m) 1	P_x (Kg) 2	qy (Kg) 3	P_y (Kg) 4	Mx (Kg.m) 5	My (Kg.m) 6
a. Beban Mati (DL)	77,0746		77,0746		195,0951	48,7738
b. Beban Hidup (LL)		70,7107		70,7107	78,75	78,75
c. Beban Angin (WL)						
• Tiup	49,5		49,5		125,2969	31,324
• Hisap	39,6		39,6		100,2375	25,0594

Keterangan Tabel

1. Pembebanan sejajar gording $q_x = Px$ = beban sin 45^0
2. Pembebanan tegak lurus gording $q_y = Py$ = beban.cos 45^0
3. Momen untuk beban merata $M_X = M// = 1/8\ q_x L^2$
4. Momen untuk beban merata $M_Y = M\perp = 1/32\ q_Y L^2$
5. Momen untuk beban terpusat Mx = My = ¼ . P . L

Dengan L = 4,5 m

Tabel 4.2 Kombinasi Momen AISC-LRFD93

No	Kombinasi	$M_{u,x}$ (Kg.m)	$M_{u,y}$ (Kg.m)
1.	1,4 M_D	273,1331	68,2833
2.	**1,2 M_D + 1,6 M_L**	360,1141	184,5286
3.	1,2 M_D + 0,5 M_L + 1,3 M_W	436,3731	138,6248
4.	1,2 M_D + 0,5 M_L - 1,3 M_W	143,1804	65,3263
5.	0,9 M_D + 1,3 M_W	338,4715	84,6176
6.	0,9 M_D - 1,3 M_W	45,2768	11,3192

4.1.2 Pendimensian Gording

Mu,x = kNm (kombinasi maksimum)

Diambil mutu baja fy = 240 MPa, asumsi penampang kompak

Kekuatan desainnya adalah : $\phi_b . Z_x . F_y \geq M_{U,X}$

$$Z_X \text{ (yang diminta)} = \frac{M_{U,x}}{\phi_b F_Y} = \frac{436{,}3751.10^2}{0{,}9.2400} = 20{,}203 \text{ cm}^3$$

Pilih profil dari tabel LRFD

Coba Light Lip Canal 150 X 50 X 20 X 4,5

Zx = 49 cm³ Ix = 368 cm⁴

Zy = 10,5 cm³ Iy = 35,7 cm⁴

1. Cek batas penampang kompak

Untuk sayap

$$\lambda = \frac{b_f}{t_f} = \frac{50}{4{,}5} = 10{,}8 < \lambda_p = \frac{170}{\sqrt{f_y}} = \frac{170}{\sqrt{240}} = 10{,}97 \text{ -aman-}$$

Untuk badan

$$\lambda = \frac{h_c}{t_w} = \frac{150}{4{,}5} = 32{,}61 < \lambda_p = \frac{1680}{\sqrt{f_y}} = \frac{1680}{\sqrt{240}} = 108{,}44 \text{ -aman-}$$

2. Cek Tegangan

$fb_x = M_x / Z_x$

$fb_x = 436{,}3751.10^2 / 49 = 880{,}561 \text{ Kg/cm}^2$

$fb_y = M_y / Z_y$

$fb_y = 154{,}5286.10^2 / 10{,}5 = 1605{,}415$ Kg/cm^2

$$\frac{fb_x}{0{,}66.fy} + \frac{fb_y}{0{,}75.fy} \leq 1{,}0$$

$$\frac{880{,}561}{0{,}66.2400} + \frac{1605{,}415}{0{,}75.2400} = 0{,}97 < 1$$ - aman -

3. Cek berat Gording

W < W taksiran

9,20 Kg/m < 10 Kg/m - aman -

4. Cek lendutan

- Panjang gording L= 4,5 m
- E = 200.000 MPa
- I_Y = 357000 mm^4

- Cek lendutan terhadap arah - x

$$\Delta_X = \frac{5.q_x.L^4}{384.EI_x} + \frac{1}{48}.\frac{P_x.L^3}{E.I_x}$$

$$= \frac{5.0{,}7707.4500^4}{384.200000.368.10^4} + \frac{1}{48}.\frac{0{,}7071.4500^3}{200000.368.10^4} \text{ mm}$$

= 5,593 mm < L/360 = 12,5 mm

- Cek lendutan terhadap arah - y

$$\Delta_y = \frac{5.q_y.[L/(a+1)]^4}{384.EI_Y} + \frac{1}{48}.\frac{P_y.[L/(a+1)]^4}{EI_y}$$

$$\Delta_y = \frac{5.0{,}7707[4500/1+1]^4}{384.200000.35{,}7.10^4} + \frac{1}{48}.\frac{0{,}7071[4500/(1+1)]^4}{200000.35{,}7.10^4}$$

$\Delta_y = 8{,}8899$ mm $< L/360 = 12{,}5$ mm

$\Delta = \sqrt{\Delta_x + \Delta_y} < L/360$

$\Delta = \sqrt{5{,}593 + 8{,}8899}$

$\Delta = 3{,}8056$ mm $< 12{,}5$ mm - aman -

4.2 Perencanaan Sagrod

4.2.1 Pembebanan Sagrod

a. Beban Mati (D)

- Beban penutup atap : 0,6 kN/m^2 x 1,65 m x 1,5 m = 1,485 kN
- Beban gording : 0.092 kN/m x 1,5 m = 0,138 kN
- Beban sagrod taksiran : 0,03 kN/m x 1,5 m = 0,045 kN

P_D = 1.668 kN

b. Beban Hidup (L)

- Beban pekerja P_L = 1 kN

c. Beban Angin (W)

- Angin Tiup qt = (0,02 α – 0,4) . 0,6 kN/m^2 x 1,65 m x 1,5 m = 0.743 kN
- Angin Hisap qh = (-0.4) x . 0,6 kN/m^2 x 1,65 m x 1,5 m = -0,594 kN

Kombinasi pembebanan terbesar

$$N_U = 1{,}2.P_D + 1{,}3.P_W + 0{,}5.P_L$$

$$N_U = 1{,}2.1{,}668 + 1{,}3.0{,}743 + 0{,}5.1$$

$$= 3{,}468 \text{ kN}$$

$$N_{U,X} = 3{,}468 \,.\, sin\, 45^0 = 2{,}452 \text{ kN}$$

4.2.2 Pendimensian Sagrod

$$N_U \le \phi.N_U$$

$$N_U \le 0{,}9.A_g.f_y$$

$$A_g = \frac{N_{U,X}}{0{,}9.f_Y} = \frac{2{,}452.10^3}{0{,}9.240} = 11{,}352\,\text{mm}^2$$

Dipakai diameter sagrod D = 12 mm

$$A_g = 1/4.\pi.D^2$$

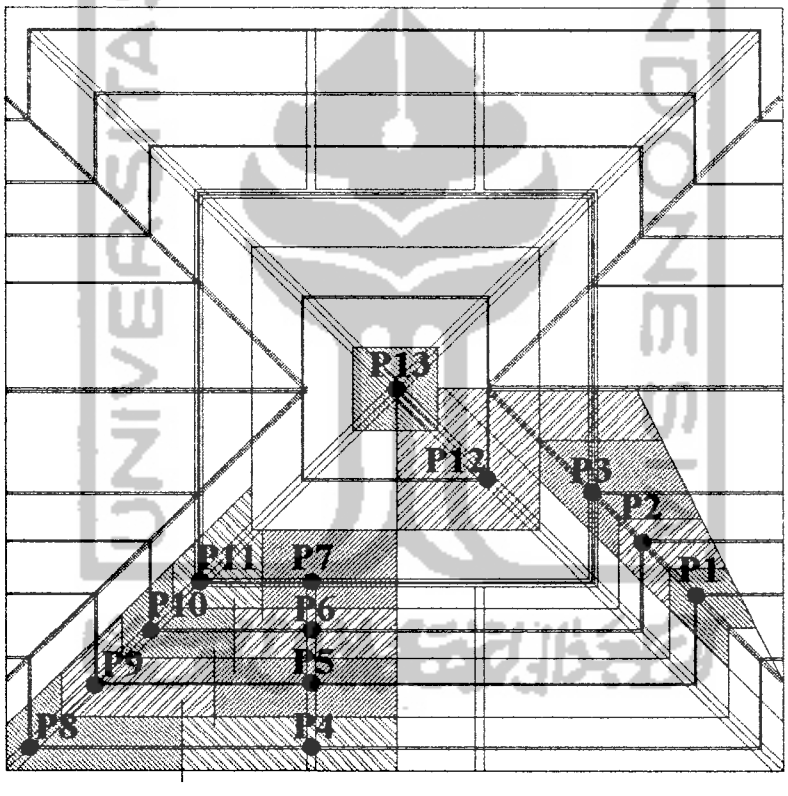
$$A_g = 1/4.\pi.12^2 = 113{,}09\,\text{mm}^2 > 11{,}352\ \text{mm}^2 \quad \text{-aman-}$$

4.3 Perencanaan Kuda-Kuda Rangka Baja

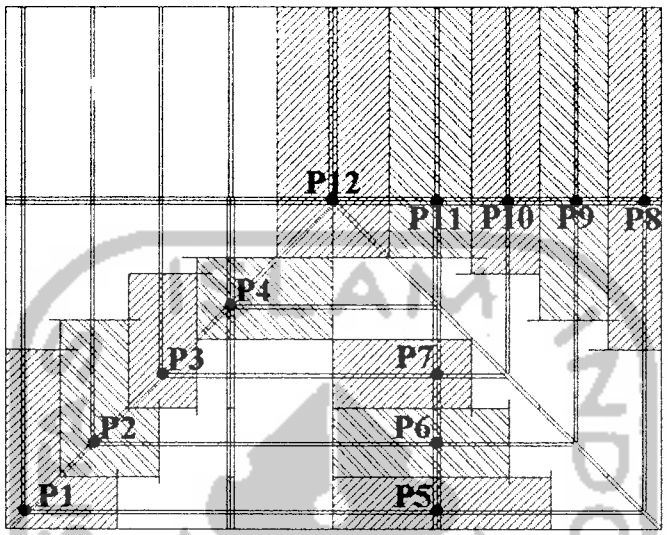
Perencanaan kuda-kuda baja meliputi, pembebanan kuda-kuda, analisis struktur, gaya batang rencana, pendimensian, dan perencanaan sambungan titik buhul. Jenis kuda-kuda yang direncanakan disajikan dalam gambar 4.1 dan gambar 4.2

4.3.1 Perencanaan Pembebanan Kuda-Kuda

Sistem Pembebanan dilakukan dengan cara membagi luasan beban yang membebani gording yang mana terlihat pada gambar dibawah ini.



Gambar 4.4 Rencana Pembebanan Kuda-kuda 1



Gambar 4.5 Rencana Pembebanan Kuda-kuda 2

Beban-Beban Untuk Atap

a. Beban Mati

- Penutup atap genting beton,

  usuk, sagrot dan reng = 0,600 kN/m^2
- Berat gording = 0,092 kN/m^2

q_D = 0,692 kN/m^2

b. Beban Hidup P_L = 1,000 kN/m^2

c. Beban Angin

- Angina Tiup qt = (0,02 α – 0,4) . 0,6 kN/m^2 = 0,30 kN/m^2
- Angin Hisap qh = (-0.4) x 0,6 kN/m^2 = -0,24 kN/m^2

1) Perencanaan Beban Kuda-Kuda I

- Beban Hidup P = 1,0 kN
- Beban Mati dan Beban Angin disajikan dalam table dibawah ini

Tabel 4.4 Beban Mati Kuda-Kuda I

No	Notasi	Penutup Atap			Gording			Berat total
		luas	beban	Berat total	Panjang	beban	Berat total	
		(m2)	(kN/m2)	(kN)	(m)	(kN/m2)	(kN)	(kN)
1	P1	2,428	0,6	1,457	1,56	0,092	0,144	1,600
2	P2	3,515	0,6	2,109	2,16	0,092	0,199	2,308
3	P3	4,66	0,6	2,796	2,71	0,092	0,249	3,045
4	P4	4,41	0,6	2,646	3,65	0,092	0,336	2,982
5	P5	4,9	0,6	2,940	3,15	0,092	0,290	3,230
6	P6	4,2	0,6	2,520	2,575	0,092	0,237	2,757
7	P7	3,34	0,6	2,004	2,025	0,092	0,186	2,190
8	P8	4,06	0,6	2,436	3,36	0,092	0,309	2,745
9	P9	4,45	0,6	2,670	2,86	0,092	0,263	2,933
10	P10	3,725	0,6	2,235	2,285	0,092	0,210	2,445
11	P11	2,87	0,6	1,722	1,375	0,092	0,127	1,849
12	P12	9,89	0,6	5,934	5,5	0,092	0,506	6,440
13	P13	1,414	0,6	0,848	0	0	0	0,848

P3' = (P1 + P2)/2 + P3

Tabel 4.5 Beban Angin Kuda-Kuda I

No	Notasi	Luas (m2)	Angin Tiup			Angin Hisap		
			Beban	P	P*α	Beban	P	P*α
			kN/m2	kN	kN	kN/m2	kN	kN
1	P1	0,778	0,3	0,233	0,199	0,24	0,187	0,159
2	P2	1,79	0,3	0,537	0,457	0,24	0,430	0,366
3	P3	2,716	0,3	0,815	0,693	0,24	0,652	0,555
4	P4	4,41	0,3	1,323	1,126	0,24	1,058	0,901
5	P5	4,9	0,3	1,470	1,251	0,24	1,176	1,001
6	P6	4,2	0,3	1,260	1,072	0,24	1,008	0,858
7	P7	3,34	0,3	1,002	0,853	0,24	0,802	0,682
8	P8	2,78	0,3	0,834	0,710	0,24	0,667	0,568
9	P9	2,8	0,3	0,840	0,715	0,24	0,672	0,572
10	P10	2	0,3	0,600	0,511	0,24	0,480	0,408
11	P11	1,12	0,3	0,336	0,286	0,24	0,269	0,229
12	P12	5,5	0,3	1,650	1,404	0,24	1,320	1,123
13	P13	0,354	0,3	0,106	0,090	0,24	0,085	0,072

2) Perencanaan Beban Kuda-Kuda II

- Beban Hidup P = 1,0 kN

Beban Mati dan Beban Angin disajikan dalam table dibawah ini

Tabel 4.6 Beban Mati Kuda–kuda II

No	Notasi	Penutup Atap			Gording			Berat total
		luas	beban	Berat total	Panjang	beban	Berat total	
		(m2)	(kN/m2)	(kN)	(m)	(kN/m2)	(kN)	(kN)
1	P1	4,72	60	283,2	3,9	2,1	8,19	291,39
2	P2	4,43	60	265,8	2,9	2,1	6,09	271,89
3	P3	2,765	60	165,9	1,7	2,1	3,57	169,47
4	P4	2,925	60	175,5	1,8	2,1	3,78	179,28
5	P5	45	60	2700	2,85	2,1	5,985	2705,985
6	P6	3,58	60	214,8	2,35	2,1	4,935	219,735
7	P7	2,845	60	170,7	1,75	2,1	3,675	174,375
8	P8	5,44	60	326,4	4,5	2,1	9,45	335,85
9	P9	6,22	60	373,2	4	2,1	8,4	381,6
11	P10	5,53	60	331,8	3,4	2,1	7,14	338,94
12	P11	4,635	60	278,1	2,85	2,1	5,985	284,085
13	P12	4,84	60	290,4	4,5	2,1	9,45	299,85

Tabel 4.7 Beban Angin Kuda-Kuda II

No	Notasi	Luas (m2)	Angin Tiup			Angin Hisap		
			Beban	P	P*α	Beban	P	P*α
			kN/m2	kN	kN	kN/m2	kN	kN
1	P1	2,72	0,3	0,816	0,694	0,24	0,653	0,555
2	P2	2,72	0,3	0,816	0,694	0,24	0,653	0,555
3	P3	1,87	0,3	0,561	0,477	0,24	0,449	0,382
4	P4	0,975	0,3	0,293	0,249	0,24	0,234	0,199
5	P5	3,45	0,3	1,035	0,881	0,24	0,828	0,705
6	P6	3,58	0,3	1,074	0,914	0,24	0,859	0,731
7	P7	2,845	0,3	0,854	0,726	0,24	0,683	0,581
8	P8	5,44	0,3	1,632	1,389	0,24	1,306	1,111
9	P9	6,22	0,3	1,866	1,588	0,24	1,493	1,270
10	P10	5,53	0,3	1,659	1,412	0,24	1,327	1,129
11	P11	4,635	0,3	1,391	1,183	0,24	1,112	0,947
12	P12	2,42	0,3	0,726	0,618	0,24	0,581	0,494
13	P13	0,354	0,3	0,106	0,090	0,24	0,085	0,072

4.3.2 Pendimensian Kuda-Kuda Rangka Baja

Pendimensian kuda-kuda rangka baja ini disamakan untuk semua rangka baja kuda-kuda, untuk memudahkan dalam pengadaan maupun pekerjaan. Pendimensian dilakukan dengan cara coba-coba dengan menggunakan Program SAP 2000, sehingga diproleh profil yang aman dan optimum dan di pilih profil 2L 50 x 50 x 5 -10

Contoh hitungan

- Batang Tekan
  - Data-data

    Porfil 2L 50 x 50 x 5 -10

    Frame : K2B4 dengan Units : N-mm

    Pu = -42973,65 N

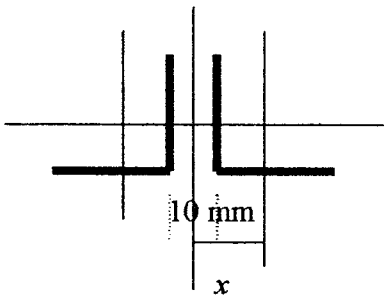
    L = 1174 mm

    A=480 mm^2 Ix=Iy=110000 mm^4 r_x=r_y =15000 mm

    E=200000 Mpa fy=240 Mpa

  - Cek angka kelangsingan batang tekan : $\frac{kL}{r} < 200$

    mencari r gabungan dan dipilih yang terkecil :



$x = e + tp/2 = 14 + 10/2 = 19$ mm

Iy untuk dua profil = $2\left(Iy + A.x^2\right)$

$= 2\ (\ 11.10^4 + 480.19^2\ )$

$= 566560\ mm^4$

$r_y = \sqrt{(Iy/Ag)} = \sqrt{(566560/2.480)} = 24{,}29$ mm

Ix dua profil = 2.Ix = $2.110000 = 22.10^4\ mm^4$

$r_x = \sqrt{(Ix/Ag)} = \sqrt{(220000/2.480)} = 15{,}14$ mm

dipilih r terkecil = r_x = 15.14 mm

$\frac{k.L}{r} = \frac{1.1174}{15{,}14} = 77{,}54$ maka $\frac{k.L}{r} < 200$ -aman-

- Parameter kelangsingan batang tekan

$$\lambda_C = \frac{k.L}{\pi r}\sqrt{\frac{fy}{E}}$$

$$\lambda_C = \frac{1.1174}{\pi.15{,}14}\sqrt{\frac{240}{20000}} = 0{,}855$$

untuk $0{,}25 < (\lambda_c = 0{,}855) < 1{,}2$

$\omega = 1{,}43/(1{,}6 - 0{,}67.\lambda_C)$

$= 1{,}43/\ (1{,}6\text{-}0{,}67..0{,}855) = 1{,}392$

- Kuat tekan nominal

$\phi.Pn = \phi.Ag.(fy/\varpi)$

$= 0{,}87.960.(240/1{,}392)$

$= 144000\ N = 144\ kN$

- $\phi Pn > Pu$

  144000 kN > 42973,65 kN - aman -

- Batang Tarik

  - Data-data :

    Porfil 2L 50 x 50 x 5 -10

    Frame : K2D4 dengan Units : N-mm

    Pu = 19888,42 N

    L = 1742,022 mm

    A = 480 mm^2 Ix=Iy=110000 mm^4 $r_x=r_y$ =15000 mm

    E = 200000 fy=240

  - Cek angka perbandingan kelangsingan batang tarik

    $\frac{k.L}{r} = \frac{1.1742,022}{15,14} = 115,06$ maka $\frac{k.L}{r} < 200$ *-aman-*

  - Kuat tarik nominal batang tarik

    $\phi Pn = \phi.Ag.fy$

    $= 0,9.(2.480).240$

    $= 207360$ N = 207,36 kN

  - $\phi Pn > Pu$

    144000 > 42973,65 *- aman –*

Perencanaan kuda – kuda dapat dilihat pada tabel 4.7 , tabel 4.8 , tabel 4.9 dan tabel 4.10

Tabel 4.7 Batang Tarik Rangka Kuda - Kuda I

FRAME	Profil	Pu (N)	L (mm)	K.L/r	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8
GA1	2L50X50X5-10	7854,16	1413,879	93,38699	207360	0,037877	aman
GA2	2L50X50X5-10	7854,1	1413,879	93,38699	207360	0,037877	aman
GA3	2L50X50X5-10	10188,24	707,442	46,72668	207360	0,049133	aman
GA4	2L50X50X5-10	10187,99	707,442	46,72668	207360	0,049132	aman
GA5	2L50X50X5-10	3943,47	989,751	65,37325	207360	0,019018	aman
GA6	2L50X50X5-10	3944,68	989,751	65,37325	207360	0,019023	aman
GD3	2L50X50X5-10	8007,61	1123,023	74,17589	207360	0,038617	aman
GD4	2L50X50X5-10	8010,42	1123,366	74,19855	207360	0,03863	aman
GD5	2L50X50X5-10	4495,73	1253,101	82,76757	207360	0,021681	aman
GD6	2L50X50X5-10	4494,33	1253,101	82,76757	207360	0,021674	aman
HA1	2L50X50X5-10	7849,35	1413,879	93,38699	207360	0,037854	aman
HA2	2L50X50X5-10	7849,39	1413,879	93,38699	207360	0,037854	aman
HA3	2L50X50X5-10	10344,56	1697,193	112,0999	207360	0,049887	aman
HA4	2L50X50X5-10	10344,5	1697,193	112,0999	207360	0,049887	aman
HD5	2L50X50X5-10	4417,87	1253,101	82,76757	207360	0,021305	aman
HD6	2L50X50X5-10	4418,71	1253,101	82,76757	207360	0,021309	aman
KV7	2L50X50X5-10	1738,62	2000	132,1004	207360	0,008385	aman
I1D2	2L50X50X5-10	484,07	2170,828	143,3836	207360	0,002334	aman
I1D3	2L50X50X5-10	482,19	2170,828	143,3836	207360	0,002325	aman
I1D6	2L50X50X5-10	484,43	2170,828	143,3836	207360	0,002336	aman
I1D7	2L50X50X5-10	484,83	2170,828	143,3836	207360	0,002338	aman
I2B2	2L50X50X5-10	5303,88	1349,989	89,16704	207360	0,025578	aman

Tabel 4.7 Lanjutan

FRAME	Profil	Pu (N)	L (mm)	K.L/r	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8
I2B3	2L50X50X5-10	5391,45	1349,989	89,16704	207360	0,026	aman
I2B6	2L50X50X5-10	5311,11	1349,989	89,16704	207360	0,025613	aman
I2B7	2L50X50X5-10	5386,24	1349,989	89,16704	207360	0,025975	aman
I2D1	2L50X50X5-10	10896,75	2171,104	143,4018	207360	0,05255	aman
I2D2	2L50X50X5-10	2030,92	2171,099	143,4015	207360	0,009794	aman
I2D3	2L50X50X5-10	2124,54	2171,099	143,4015	207360	0,010246	aman
I2D4	2L50X50X5-10	10990,21	2171,104	143,4018	207360	0,053001	aman
I2D5	2L50X50X5-10	10896,29	2171,104	143,4018	207360	0,052548	aman
I2D6	2L50X50X5-10	2030,46	2171,099	143,4015	207360	0,009792	aman
I2D7	2L50X50X5-10	2127,78	2171,099	143,4015	207360	0,010261	aman
I2D8	2L50X50X5-10	10993,43	2171,104	143,4018	207360	0,053016	aman
K1A1	2L50X50X5-10	8593,83	1732,105	114,4059	207360	0,041444	aman
K1A2	2L50X50X5-10	8590,47	1732,105	114,4059	207360	0,041428	aman
K1D3	2L50X50X5-10	19890,63	1742,166	115,0704	207360	0,095923	aman
K1D4	2L50X50X5-10	19395,29	1738,488	114,8275	207360	0,093534	aman
K1D5	2L50X50X5-10	11594,52	1667,476	110,1371	207360	0,055915	aman
K1D6	2L50X50X5-10	11222,28	1667,476	110,1371	207360	0,05412	aman
K1D7	2L50X50X5-10	2460,86	1811,419	119,6446	207360	0,011868	aman
K1D8	2L50X50X5-10	2539,63	1811,419	119,6446	207360	0,012247	aman
K2A1	2L50X50X5-10	8590,37	1732,105	114,4059	207360	0,041427	aman
K2A2	2L50X50X5-10	8593,88	1732,105	114,4059	207360	0,041444	aman
K2D3	2L50X50X5-10	19448,4	1742,021	115,0608	207360	0,093791	aman

Tabel 4.7 Lanjutan

FRAME	Profil	Pu (N)	L (mm)	K.L/r	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8
K2D4	2L50X50X5-10	19888,42	1742,022	115,0609	207360	0,095913	aman
K2D5	2L50X50X5-10	11225,32	1667,476	110,1371	207360	0,054134	aman
K2D6	2L50X50X5-10	11594,12	1667,476	110,1371	207360	0,055913	aman
K2D7	2L50X50X5-10	2534,46	1811,419	119,6446	207360	0,012223	aman
K2D8	2L50X50X5-10	2464,39	1811,419	119,6446	207360	0,011885	aman

Keterangan **Tabel 4.7** Batang Tarik Rangka Kuda - Kuda I

1. Batang yang ditinjau
2. Profil yang digunakan
3. Pu = Gaya yang bekerja
4. L = Panjang bentang kuda - kuda
5. K.L/r = nilai kelangsingan
6. Ø.Pn = Ø.Ag .fy
   (Kuat tarik nominal batang)
7. Rasio Deman/capacity = Pu/(Ø.Pn)
8. Kontrol Ø.Pn > Pu , maka aman

Tabel 4.8 Batang Tekan Rangka Kuda - Kuda I

FRAME	Profil	Pu (N)	L (mm)	K.L/r	λc	ω	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8	9	10
GA7	2L50X50X5-10	-1946,37	1555,835	102,76321	1,13370128	1,7015299	108326,042	0,0179677	aman
GA8	2L50X50X5-10	-1947,36	1555,835	102,76321	1,13370128	1,7015299	108326,042	0,01797684	aman
GB1	2L50X50X5-10	-6779,3	1500	99,075297	1,0930156	1,64807388	111839,647	0,06061625	aman
GB2	2L50X50X5-10	-6779,24	1500	99,075297	1,0930156	1,64807388	111839,647	0,06061571	aman
GB3	2L50X50X5-10	-11914,71	936,425	61,851057	0,68235142	1,25128569	147304,49	0,08088491	aman
GB4	2L50X50X5-10	-11908,26	936,084	61,828534	0,68210294	1,25110343	147325,949	0,08082935	aman
GB5	2L50X50X5-10	-5695,48	1471,787	97,211823	1,07245743	1,62232037	113615,044	0,05012963	aman
GB6	2L50X50X5-10	-5697,89	1472,128	97,234346	1,07270591	1,62262683	113593,586	0,05016031	aman
GD1	2L50X50X5-10	-5566,92	1118,015	73,845112	0,81467189	1,35651766	135877,331	0,04097019	aman
GD2	2L50X50X5-10	-5566,87	1118,015	73,845112	0,81467189	1,35651766	135877,331	0,04096982	aman
GV1	2L50X50X5-10	-12635,26	1500	99,075297	1,0930156	1,64807388	111839,647	0,11297657	aman
GV2	2L50X50X5-10	-12639,02	1500	99,075297	1,0930156	1,64807388	111839,647	0,11301019	aman
GV3	2L50X50X5-10	-10632,68	1577,924	104,22219	1,14979703	1,7236475	106936,018	0,0994303	aman
GV4	2L50X50X5-10	-10629,8	1578,393	104,25317	1,15013878	1,72412334	106906,505	0,09943081	aman
HA5	2L50X50X5-10	-1943,85	1555,835	102,76321	1,13370128	1,7015299	108326,042	0,01794444	aman
HA6	2L50X50X5-10	-1945,87	1555,835	102,76321	1,13370128	1,7015299	108326,042	0,01796309	aman
HB1	2L50X50X5-10	-6774,32	1500	99,075297	1,0930156	1,64807388	111839,647	0,06057172	aman
HB2	2L50X50X5-10	-6774,36	1500	99,075297	1,0930156	1,64807388	111839,647	0,06057208	aman
HB3	2L50X50X5-10	-5646,57	2408,212	159,06288	1,75480885	3,37043109	54687,3664	0,10325182	aman
HB4	2L50X50X5-10	-5650,5	2408,212	159,06288	1,75480885	3,37043109	54687,3664	0,10332368	aman
HD1	2L50X50X5-10	-5393,98	1118,015	73,845112	0,81467189	1,35651766	135877,331	0,03969742	aman
HD2	2L50X50X5-10	-5393,96	1118,015	73,845112	0,81467189	1,35651766	135877,331	0,03969728	aman
HD3	2L50X50X5-10	-16157,99	2308,482	152,47569	1,68213789	3,02346281	60963,2105	0,26504493	aman
HD4	2L50X50X5-10	-16157,72	2308,482	152,47569	1,68213789	3,02346281	60963,2105	0,2650405	aman
IIA1	2L50X50X5-10	-4767,17	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,03930746	aman
IIA2	2L50X50X5-10	-4944,32	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,04076814	aman
IIA3	2L50X50X5-10	-4944,33	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,04076822	aman
IIA4	2L50X50X5-10	-4770,31	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,03933335	aman
IIA5	2L50X50X5-10	-4059,38	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,03347141	aman
IIA6	2L50X50X5-10	-4242,04	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,03497752	aman
IIA7	2L50X50X5-10	-4242,09	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,03497794	aman
IIA8	2L50X50X5-10	-4061,67	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,03349029	aman
IIB1	2L50X50X5-10	-3278,68	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,02703406	aman
IIB2	2L50X50X5-10	-6337,44	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,05225479	aman
IIB3	2L50X50X5-10	-6338,51	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,05226362	aman
IIB4	2L50X50X5-10	-3278,3	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,02703093	aman

Tabel 4.8 Lanjutan

FRAME	Profil	Pu (N)	L (mm)	K.L/r	λc	ω	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8	9	10
I1B5	2L50X50X5-10	-3617,03	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,0298239	aman
I1B6	2L50X50X5-10	-6544,63	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,05396316	aman
I1B7	2L50X50X5-10	-6547,63	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,0539879	aman
I1B8	2L50X50X5-10	-3622,2	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,02986653	aman
I1D1	2L50X50X5-10	-5088,26	2170,969	143,39293	1,58193532	2,64764148	69616,6764	0,07308967	aman
I1D4	2L50X50X5-10	-5092,01	2170,969	143,39293	1,58193532	2,64764148	69616,6764	0,07314354	aman
I1D5	2L50X50X5-10	-5294,48	2170,969	143,39293	1,58193532	2,64764148	69616,6764	0,07605189	aman
I1D8	2L50X50X5-10	-5292,37	2170,969	143,39293	1,58193532	2,64764148	69616,6764	0,07602158	aman
I1V1	2L50X50X5-10	-4418,24	1700,173	112,29676	1,23887707	1,85725776	99243,0906	0,04451937	aman
I1V2	2L50X50X5-10	-295,02	1700	112,28534	1,23875101	1,85705405	99253,9772	0,00297237	aman
I1V3	2L50X50X5-10	-4415,65	1700,173	112,29676	1,23887707	1,85725776	99243,0906	0,04449327	aman
I1V4	2L50X50X5-10	-4447,85	1700,173	112,29676	1,23887707	1,85725776	99243,0906	0,04481773	aman
I1V5	2L50X50X5-10	-296,14	1700	112,28534	1,23875101	1,85705405	99253,9772	0,00298366	aman
I1V6	2L50X50X5-10	-4447,37	1700,173	112,29676	1,23887707	1,85725776	99243,0906	0,04481289	aman
I2A1	2L50X50X5-10	-10008,07	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08252103	aman
I2A2	2L50X50X5-10	-10143,96	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,0836415	aman
I2A3	2L50X50X5-10	-10144,75	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08364802	aman
I2A4	2L50X50X5-10	-9940,8	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08196636	aman
I2A5	2L50X50X5-10	-10009,76	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08253496	aman
I2A6	2L50X50X5-10	-10144,3	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08364431	aman
I2A7	2L50X50X5-10	-10145,12	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08365107	aman
I2A8	2L50X50X5-10	-9939,83	1349,998	89,167635	0,98371258	1,51980114	121279,025	0,08195836	aman
I2B1	2L50X50X5-10	-3456,81	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,02850282	aman
I2B4	2L50X50X5-10	-3776,1	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,03113549	aman
I2B5	2L50X50X5-10	-3461,95	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,0285452	aman
I2B8	2L50X50X5-10	-3775,34	1349,989	89,167041	0,98370602	1,51979404	121279,591	0,03112923	aman
I2V1	2L50X50X5-10	-8326,22	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,08390643	aman
I2V2	2L50X50X5-10	-276,56	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,002787	aman
I2V3	2L50X50X5-10	-8400,3	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,08465296	aman
I2V4	2L50X50X5-10	-8325,86	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,0839028	aman
I2V5	2L50X50X5-10	-276,56	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,002787	aman
I2V6	2L50X50X5-10	-8402,86	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,08467876	aman
K1A3	2L50X50X5-10	-2921,62	2078,415	137,27972	1,51449334	2,44323551	75440,9466	0,03872724	aman
K1A4	2L50X50X5-10	-2573,39	2078,415	137,27972	1,51449334	2,44323551	75440,9466	0,03411132	aman
K1A5	2L50X50X5-10	-16505,02	1905,252	125,84227	1,38831343	2,13487004	86337,8081	0,19116793	aman
K1A6	2L50X50X5-10	-15831,64	1905,252	125,84227	1,38831343	2,13487004	86337,8081	0,18336857	aman
K1A7	2L50X50X5-10	-12139,16	2078,456	137,28243	1,51452322	2,44331907	75438,3666	0,16091494	aman

Tabel 4.8 Lanjutan

FRAME	Profil	Pu (N)	L (mm)	K.L/r	λc	ω	Ø .Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8	9	10
K1A8	2L50X50X5-10	-11958,52	2078,456	137,28243	1,51452322	2,44331907	75438,3666	0,1585204	aman
K1A9	2L50X50X5-10	-1870,67	2598,076	171,60343	1,89315839	4,31263429	42739,5387	0,04376907	aman
K1B1	2L50X50X5-10	-7078,97	2121,32	140,11361	1,54575723	2,53392152	72741,0059	0,09731746	aman
K1B2	2L50X50X5-10	-7073,45	2121,32	140,11361	1,54575723	2,53392152	72741,0059	0,09724158	aman
K1B3	2L50X50X5-10	-42988,08	1173,989	77,542206	0,85545886	1,39261855	132354,98	0,32479382	aman
K1B4	2L50X50X5-10	-42888,84	1169,173	77,224108	0,85194955	1,38943705	132658,043	0,32330373	aman
K1B5	2L50X50X5-10	-22415,04	1832,511	121,03771	1,33530874	2,027382	90915,279	0,24654866	aman
K1B6	2L50X50X5-10	-23027,24	1837,328	121,35588	1,33881877	2,03416422	90612,1531	0,25412971	aman
K1B7	2L50X50X5-10	-9101,13	2004,451	132,39439	1,46059747	2,30125636	80095,3789	0,11362865	aman
K1B8	2L50X50X5-10	-9312,64	2004,451	132,39439	1,46059747	2,30125636	80095,3789	0,11626938	aman
K1D1	2L50X50X5-10	-19270,47	1224,706	80,892074	0,89241517	1,42702916	129163,443	0,14919446	aman
K1D2	2L50X50X5-10	-18925,79	1224,706	80,892074	0,89241517	1,42702916	129163,443	0,1465259	aman
K1D9	2L50X50X5-10	-10483,93	2179,449	143,95304	1,5881145	2,6680932	69083,044	0,15175837	aman
K1V1	2L50X50X5-10	-16383,87	1575,589	104,06797	1,14809557	1,72128233	107082,956	0,15300166	aman
K1V2	2L50X50X5-10	-16061,94	1577,843	104,21684	1,149738	1,72356534	106941,115	0,15019424	aman
K1V3	2L50X50X5-10	-11177,29	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,11263773	aman
K1V4	2L50X50X5-10	-11031,01	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,11116361	aman
K1V5	2L50X50X5-10	-1971,17	1833,55	121,10634	1,33606583	2,02884106	90849,8964	0,021697	aman
K1V6	2L50X50X5-10	-2059,74	1833,55	121,10634	1,33606583	2,02884106	90849,8964	0,0226719	aman
K2A3	2L50X50X5-10	-2633,14	2078,415	137,27972	1,51449334	2,44323551	75440,9466	0,03490333	aman
K2A4	2L50X50X5-10	-2918,86	2078,415	137,27972	1,51449334	2,44323551	75440,9466	0,03869066	aman
K2A5	2L50X50X5-10	-15802,34	1905,252	125,84227	1,38831343	2,13487004	86337,8081	0,1830292	aman
K2A6	2L50X50X5-10	-16503,95	1905,252	125,84227	1,38831343	2,13487004	86337,8081	0,19115554	aman
K2A7	2L50X50X5-10	-11942,72	2078,456	137,28243	1,51452322	2,44331907	75438,3666	0,15831096	aman
K2A8	2L50X50X5-10	-12133,5	2078,456	137,28243	1,51452322	2,44331907	75438,3666	0,16083991	aman
K2A9	2L50X50X5-10	-1859,08	2598,076	171,60343	1,89315839	4,31263429	42739,5387	0,0434979	aman
K2B1	2L50X50X5-10	-7073,29	2121,32	140,11361	1,54575723	2,53392152	72741,0059	0,09723938	aman
K2B2	2L50X50X5-10	-7079,02	2121,32	140,11361	1,54575723	2,53392152	72741,0059	0,09731815	aman
K2B3	2L50X50X5-10	-42872,24	1173,71	77,523778	0,85525556	1,39243384	132372,537	0,32387564	aman
K2B4	2L50X50X5-10	-42973,65	1173,789	77,528996	0,85531312	1,39248613	132367,566	0,32465393	aman
K2B5	2L50X50X5-10	-23001,93	1832,79	121,05614	1,33551204	2,02777359	90897,722	0,25305288	aman
K2B6	2L50X50X5-10	-22407,9	1832,711	121,05092	1,33545447	2,02766269	90902,6933	0,24650425	aman
K2B7	2L50X50X5-10	-9310,28	2004,451	132,39439	1,46059747	2,30125636	80095,3789	0,11623991	aman
K2B8	2L50X50X5-10	-9097,73	2004,451	132,39439	1,46059747	2,30125636	80095,3789	0,1135862	aman
K2B9	2L50X50X5-10	-6869,77	2505,696	165,50172	1,8258432	3,79627487	48552,8594	0,14149053	aman
K2D1	2L50X50X5-10	-18943,89	1224,706	80,892074	0,89241517	1,42702916	129163,443	0,14666603	aman
K2D2	2L50X50X5-10	-19269,87	1224,706	80,892074	0,89241517	1,42702916	129163,443	0,14918981	aman

Tabel 4.8 Lanjutan

FRAME	Profil	Pu (N)	L (mm)	K.L/r	λc	ω	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8	9	10
K2D9	2L50X50X5-10	-10260,01	2179,449	143,95304	1,5881145	2,6680932	69083,044	0,14851705	aman
K2V1	2L50X50X5-10	-16011,38	1575,8	104,0819	1,14824932	1,72149579	107069,678	0,14954168	aman
K2V2	2L50X50X5-10	-16384,69	1575,692	104,07477	1,14817062	1,72138653	107076,474	0,15301858	aman
K2V3	2L50X50X5-10	-11023,52	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,11108813	aman
K2V4	2L50X50X5-10	-11171,87	1700,346	112,30819	1,23900313	1,85746152	99232,204	0,11258311	aman
K2V5	2L50X50X5-10	-2060,14	1833,55	121,10634	1,33606583	2,02884106	90849,8964	0,02267631	aman
K2V6	2L50X50X5-10	-1974,51	1833,55	121,10634	1,33606583	2,02884106	90849,8964	0,02173376	aman
K1A10	2L50X50X5-10	-1869,57	2598,076	171,60343	1,89315839	4,31263429	42739,5387	0,04374334	aman
K1B13	2L50X50X5-10	-6551,79	2505,696	165,50172	1,8258432	3,79627487	48552,8594	0,13494138	aman
K1B14	2L50X50X5-10	-6867,75	2505,696	165,50172	1,8258432	3,79627487	48552,8594	0,14144893	aman
K1D10	2L50X50X5-10	-10265,9	2179,449	143,95304	1,5881145	2,6680932	69083,044	0,14860231	aman
K2A10	2L50X50X5-10	-1862,19	2598,076	171,60343	1,89315839	4,31263429	42739,5387	0,04357066	aman
K2B10	2L50X50X5-10	-6544,44	2505,696	165,50172	1,8258432	3,79627487	48552,8594	0,13479	aman
K2D10	2L50X50X5-10	-10486,55	2179,449	143,95304	1,5881145	2,6680932	69083,044	0,15179629	aman

Keterangan Tabel 4.8 Batang Tekan Rangka Kuda - Kuda I

1. Batang yang ditinjau
2. Profil yang digunakan
3. Pu = Gaya yang bekerja
4. L = Panjang bentang kuda - kuda
5. K.L/r = nilai kelangsingan
6. $\lambda\chi = (K.L)/(\pi.r).\sqrt{(fy/E)}$
   $\lambda\chi$ = parameter kelangsingan batang tekan
7. $\omega = 1{,}42 /(1{,}6 - 0{,}67.\lambda\chi)$
8. Ø.Pn = Ø.Ag .(fy/ω)
   (Kuat tekan nominal batang)
9. Rasio Demand/capacity = Pu/(Ø.Pn)
10. Kontrol Ø.Pn > Pu , maka aman

Tabel 4.9 Batang Tarik Rangka Kuda - Kuda II

FRAME	Profil	Pu (N)	L (mm)	K.L/r	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8
FA1	2L45X45X5-10	5944,84	1414,214	93,40911	207360	0,028669	aman
FA2	2L45X45X5-10	5944,84	1414,214	93,40911	207360	0,028669	aman
FB5	2L45X45X5-10	2454,45	1350,991	89,23322	207360	0,011837	aman
FB6	2L45X45X5-10	2454,45	1350,991	89,23322	207360	0,011837	aman
FB7	2L45X45X5-10	3042,65	1200,003	79,26044	207360	0,014673	aman
FB8	2L45X45X5-10	3042,65	1200,003	79,26044	207360	0,014673	aman
FD1	2L45X45X5-10	6640,54	1208,714	79,8358	207360	0,032024	aman
FD2	2L45X45X5-10	6640,54	1208,714	79,8358	207360	0,032024	aman
FD3	2L45X45X5-10	1250,24	1234,342	81,52853	207360	0,006029	aman
FD4	2L45X45X5-10	1250,24	1234,342	81,52853	207360	0,006029	aman
FV5	2L45X45X5-10	1062,15	1660	109,6433	207360	0,005122	aman
FV6	2L45X45X5-10	1062,15	1660	109,6433	207360	0,005122	aman
JA1	2L45X45X5-10	8432,15	1414,214	93,40911	207360	0,040664	aman
JA2	2L45X45X5-10	8723,15	1414,214	93,40911	207360	0,042068	aman
JA3	2L45X45X5-10	-8309,97	1697,056	112,0909	207360	-0,04008	aman
JD1	2L45X45X5-10	11021,66	1208,481	79,82041	207360	0,053152	aman
JD2	2L45X45X5-10	11021,66	1208,481	79,82041	207360	0,053152	aman
JD3	2L45X45X5-10	4419,38	1233,062	81,44399	207360	0,021313	aman
JD4	2L45X45X5-10	4354,42	1233,062	81,44399	207360	0,020999	aman
JV5	2L45X45X5-10	4375,16	1657,36	109,469	207360	0,021099	aman
JV6	2L45X45X5-10	4306,03	1657,36	109,469	207360	0,020766	aman
JV7	2L45X45X5-10	487,25	2000	132,1004	207360	0,00235	aman

Keterangan **Tabel 4.9** Batang Tarik Rangka Kuda - Kuda II

1. Batang yang ditinjau
2. Profil yang digunakan
3. Pu = Gaya yang bekerja
4. L = Panjang bentang kuda - kuda
5. K.L/r = nilai kelangsingan
6. Ø.Pn = Ø.Ag .fy
   (Kuat tarik nominal batang)
7. Rasio Deman/capacity = Pu/(Ø.Pn)
8. Kontrol Ø.Pn > Pu , maka aman

Tabel 4.10 Batang Tekan Rangka Kuda - Kuda II

FRAME	Profil	Pu (N)	L (mm)	K.L/r	λc	ω	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8	9	10
FA3	2L45X45X5-10	-3249,06	1697,056	112,0909	1,236606	1,853594	99439,24	0,032674	aman
FA4	2L45X45X5-10	-3249,06	1697,056	112,0909	1,236606	1,853594	99439,24	0,032674	aman
FA5	2L45X45X5-10	-4626,89	1555,635	102,75	1,133556	1,701332	108338,6	0,042708	aman
FA6	2L45X45X5-10	-4626,89	1555,635	102,75	1,133556	1,701332	108338,6	0,042708	aman
FA7	2L45X45X5-10	-152,09	1200	79,26024	0,874412	1,410057	130718,2	0,001163	aman
FA8	2L45X45X5-10	-151,57	1200	79,26024	0,874412	1,410057	130718,2	0,00116	aman
FB1	2L45X45X5-10	-4187,78	1000	66,0502	0,728677	1,286218	143303,8	0,029223	aman
FB2	2L45X45X5-10	-4187,78	1000	66,0502	0,728677	1,286218	143303,8	0,029223	aman
FB3	2L45X45X5-10	-5581,43	1473,828	97,34663	1,073945	1,624156	113486,6	0,049181	aman
FB4	2L45X45X5-10	-5581,43	1473,828	97,34663	1,073945	1,624156	113486,6	0,049181	aman
FD5	2L45X45X5-10	-5342,48	2046,178	135,1505	1,491003	2,379257	77469,57	0,068962	aman
FD6	2L45X45X5-10	-5342,48	2046,178	135,1505	1,491003	2,379257	77469,57	0,068962	aman
FV1	2L45X45X5-10	-11696,7	1000	66,0502	0,728677	1,286218	143303,8	0,081622	aman
FV2	2L45X45X5-10	-11696,7	1000	66,0502	0,728677	1,286218	143303,8	0,081622	aman
FV3	2L45X45X5-10	-4714,98	1344,41	88,79855	0,979641	1,515407	121630,7	0,038765	aman
FV4	2L45X45X5-10	-4714,98	1344,41	88,79855	0,979641	1,515407	121630,7	0,038765	aman
JA4	2L45X45X5-10	-8173,22	1697,056	112,0909	1,236606	1,853594	99439,24	0,082193	aman
JA5	2L45X45X5-10	-10752,6	1555,635	102,75	1,133556	1,701332	108338,6	0,09925	aman
JA6	2L45X45X5-10	-10752,6	1555,635	102,75	1,133556	1,701332	108338,6	0,09925	aman
JA7	2L45X45X5-10	-4785,73	1697,056	112,0909	1,236606	1,853594	99439,24	0,048127	aman
JA8	2L45X45X5-10	-4781,65	1697,056	112,0909	1,236606	1,853594	99439,24	0,048086	aman
JB1	2L45X45X5-10	-7403,14	1000	66,0502	0,728677	1,286218	143303,8	0,05166	aman
JB2	2L45X45X5-10	-7818,78	1000	66,0502	0,728677	1,286218	143303,8	0,054561	aman
JB3	2L45X45X5-10	-21751,5	1474,694	97,40383	1,074576	1,624937	113432,1	0,191758	aman
JB4	2L45X45X5-10	-21802,7	1474,694	97,40383	1,074576	1,624937	113432,1	0,192209	aman
JB5	2L45X45X5-10	-11435,2	1351,58	89,27213	0,984865	1,52105	121179,5	0,094366	aman

Tabel 4.10 Lanjutan

FRAME	Profil	Pu (N)	L (mm)	K.L/r	λc	ω	Ø.Pn (N)	Pu / Ø.Pn	
1	2	3	4	5	6	7	8	9	10
JB6	2L45X45X5-10	-11392,6	1351,58	89,27213	0,984863	1,52105	121179,5	0,094014	aman
JB7	2L45X45X5-10	-7662,11	1474,888	97,41664	1,074717	1,625112	113419,9	0,067555	aman
JB8	2L45X45X5-10	-7716,77	1474,888	97,41664	1,074717	1,625112	113419,9	0,068037	aman
JD5	2L45X45X5-10	-7916,79	1442,221	95,25898	1,050913	1,596182	115475,6	0,068558	aman
JD6	2L45X45X5-10	-7866,74	1442,221	95,25898	1,050913	1,596182	115475,6	0,068125	aman
JV1	2L45X45X5-10	-19965	1000	66,0502	0,728677	1,286218	143303,8	0,139319	aman
JV2	2L45X45X5-10	-20087,3	1000	66,0502	0,728677	1,286218	143303,8	0,140173	aman
JV3	2L45X45X5-10	-8984,37	1342,851	88,69557	0,978505	1,514186	121728,8	0,073806	aman
JV4	2L45X45X5-10	-8984,37	1342,851	88,69557	0,978505	1,514186	121728,8	0,073806	aman

Keterangan **Tabel 4.10** Batang Tekan Rangka Kuda - Kuda Ii

1. Batang yang ditinjau
2. Profil yang digunakan
3. Pu = Gaya yang bekerja
4. L = Panjang bentang kuda - kuda
5. K.L/r = nilai kelangsingan
6. $\lambda c = (K.L)/(\pi.r).\sqrt{(fy/E)}$
   λc = parameter kelangsingan batang tekan
7. $\omega = 1,42 ./(1,6 - 0,67.\lambda c)$
8. $Ø.Pn = Ø.Ag .(fy/\omega)$
   (Kuat tekan nominal batang)
9. Rasio Deman/capacity = Pu/(Ø.Pn)
10. Kontrol Ø.Pn > Pu , maka aman

4.4 Perencanaan Sambungan Baut

Sebagai contoh perhitungan ditinjau pada perencanaan sambungan baut kuda-kuda K2B4, sebagai berikut :

- Porfil 2L 50 x 50 x 5 - 10

  tegangan putus minimum baja profil = 370 Mpa

  gaya batang kombinasi maksimum Pu = - 42973,65 N = -42,974 kN

- Data-data baut yang digunakan untuk menyambung :

  mutu baut, A.307

  tegangan tarik putus baut, $f_{u,b}$ = 410 Mpa, diameter baut, d = 16 mm

- Kekuatan satu baut

  1. Kuat geser rancana baut

  $\phi_f . R_{ng} = \phi_f . r_1 . f_u^b . A_b$

  dengan

  $\phi_f . R_{ng}$ = kuat geser rencana baut

  ϕ_f = 0,75 (faktor reduksi kekuatan untuk fraktur)

  r_i = 0,4 (untuk baut dengan ulir pada bidang geser)

  f_u^b = 410 Mpa (tegangan tarik putus baut)

  $A_b = 1/4.\pi.16^2$ = 201,06 mm^2 (luas bruto penampang baut)

  $\phi_f . R_{ng}$ = 0,75.0,4.410.201,06

  = 24718,1 N = 24,7181 kN

2. Kuat tarik rencana baut

$\phi_f.R_{n.ta} = \phi_f.0{,}75.f_u^b.A_b$

$\phi_f.R_{n.ta} = 0{,}75.0{,}75.410.201{,}06 = 46346{,}4$ N = 46,3464 kN

3. Kuat tumpu rencana baut

$\phi_f.R_{n.tu} = 2{,}4.\phi_f.d_b.t_f.f_u$

dengan

$\phi_f.R_{n.tu}$ = Kuat tumpu rencana baut

$.\phi_f = 0{,}75$ (faktor reduksi kekuatan untuk fraktur)

$d_b = 16$ mm (diameter baut)

t pelat buhul = 8 mm, $t_f < t$ pelat buhul maka dipakai t_f

$t_f = 5$ mm (tabal pelat profil)

$f_u = 370$ Mpa (tagangan tarik putus pelat profil)

$\phi_f.R_{n.tu} = 2{,}4.0{,}75.16.5.370$

$= 53280$ N = 53,280 kN

- Menghitung jumlah baut sambungan

Dari perhitungan diatas kuat rencana baut yang terkecil adalah kuat baut dalam geser, yaitu : $\phi_f.R_n = 24{,}7181$ kN

Jumlah baut, $n = N_u / \phi_f.R_n = 42{,}974/24{,}7181 = 1{,}7386 \approx 2$ buah

Sarat minimum jumlah baut 3 buah

- Maka jumlah baut yang dipasang pada tiap join 3 buah

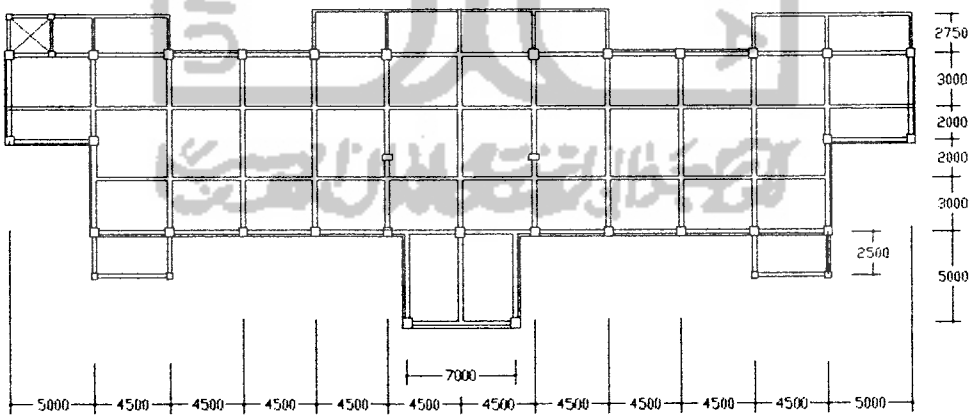
BAB V

PERENCANAAN PLAT DAN TANGGA

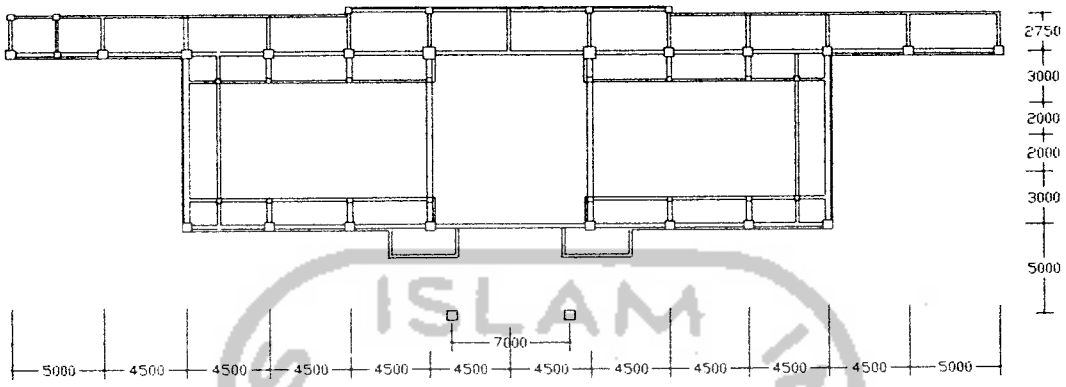
Struktur non portal akan membebani struktur portal, maka harus direncanakan lebih dulu. Perencanaan struktur non portal beton bertulang yang meliputi perencanaan plat dan perencanaan tangga.

5.1 Perencanaan Plat Lantai

Perencanaan plat atap dan plat lantai, denah plat atap disajikan pada gambar 5.1 dan gambar 5.2



Gambar 5.1 Denah Plat lantai 1



Gambar 5.2 Denah Plat Lantai Atap

5.1.1 Pembebanan Pelat Lantai

Perhitungan beban pelat sesuai ketentuan PPPURDG 1987, sebagai berikut ini

1. Beban pelat lantai

   a. Perhitungan pembebanan pelat lantai untuk beban mati

   - Pelat beton = 0,12 . 1,0 . 1,0 . 24 = 2,88 kN/m^2
   - Tegel = 0,02 . 1,0 . 1,0 . 24 = 0,48 kN/m^2
   - Spesi = 0,04 . 1,0 . 1,0 . 21 = 0,84 kN/m^2
   - Plafond = 1,0 . 1,0 . 0,18 = 0,18 kN/m^2

     = 4,40 kN/m^2

   b. Beban Hidup

   - Untuk ruang kuliah ditetapkan = 2,5 kN/m^2

2. Beban pelat atap

a. Beban mati

- Pelat = 0,12 . 1,0 . 1,0 . 24 = 2,88 kN/m^2
- Plafond = 1,0 . 1,0 . 0,18 = 0,18 kN/m^2
- Aspal = 0,04 . 1,0 . 1,0 . 14 = 0,56 kN/m^2

= 3,14 kN/m^2

b. Beban Hidup

- Pekerja Atap = 1 kN/m^2
- Hujan = 0,2 kN/m^2

= 1,2 kN/m^2

Beban Ultimit (Wu) = 1,2 W_D + 1,6 W_L

= 1,2. 4,4 + 1,6. 2,5 = 9,28 kN/m^2

koefisien momen (distribusi momen) = $x = L_Y / L_X$

5.1.2 Penulangan Plat Lantai

Tebal Pelat:

Pelat dengan satu ujung menerus

$$h_{min} = \frac{Lx}{24}.\left(0{,}4 + \frac{Fy}{700}\right)$$

$$h_{min} = \frac{1{,}5.10^3}{24}.\left(0{,}4 + \frac{240}{700}\right) = 46{,}4286 \text{ mm}$$

Pelat dengan dua ujung menerus

$$h_{min} = \frac{Lx}{28}.\left(0{,}4 + \frac{Fy}{700}\right)$$

$$h_{min} = \frac{1,5.10^3}{28}.\left(0,4 + \frac{240}{700}\right) = 39,7959 \text{ mm}$$

Digunakan h = 120 mm

1. Perhitungan penulangan pelat 1 (satu) arah pada pelat atap

Penulangan pelat satu arah direncanakan bila pada kedua sisi yang berhadapan tidak ada dukungan. dan Ly/Lx > 2, maka dianggap pelat satu arah.

Lx = 1,5 m ; Ly = 4,5 m

Ly/Lx = 4,5/1,5 = 3 m

Lebar balok = 300 mm

Ln = 1500 – 300 = 1200 mm



$Mu = X.Wu.Ln^2$

$Mu.1/16 = 1/16.9,28.1,2^2 = 0,8352$ KNm

$Mu.1/8 = 1/8.9,28.1,2^2 = 1.6704$ KNm

$Mu.1/16 = 1/16.9,28.1,2^2 = 0,8352$ KNm

Contoh perhitungan diambil $Mu.1/16$

$$Mn.1/16 = \frac{M.1/16}{\phi} = \frac{0,8352}{0,8} = 1,044 \text{ KNm}$$

Digunakan tulangan pokok P10

$d' = 20 + 0{,}5.10 = 25$ mm

$d = 120 - d'$

$= 120 - 25 = 95$ mm

$Mn = 0{,}85.fc'.b.a.(d-a/2)$

$Mu/0{,}8 = C_c.[d-(a/2)] = 0{,}85.fc'.b.a.[d-(a/2)]$

$0{,}85.fc'.b.a^2 - 2.0{,}85.fc'.b.d.a + 2.Mn = 0$

$0{,}85.30.1000.a^2 - 2.0{,}85.30.1000.95.a + 2.1{,}044.10^6 = 0$

didapat $a = 0{,}432$

$A_{s,perlu} = (0{,}85.fc'.b.a)/f_y$

$= (0{,}85.30.1000.0{,}432)/240$

$= 45{,}9$ mm^2

$A_{s,min} = 0{,}0025.b.h$

$= 0{,}0025.1000.120 = 300$ mm^2

$A_{s,perlu} < A_{s,min}$, maka diambil $A_{s,min}$

Direncanakan tulangan P10 = 1/4. $\pi \varnothing^2$.= 1/4. $\pi 10^2 = 78{,}54$ mm

$S = (1/4.\ \pi \varnothing^2.b)/A_s$

$= (78.54.1000)/300 = 261{,}8$ mm

Dipakai **P10- 200**

Luas tulangan dipakai $A_{s\,pakai} = (78{,}54.1000)/200 = 392{,}7$ mm^2

Tabel 5.1 Pelat Satu Arah

	Arah	L (m)	Ly/Lx	letak	Wu	Mu	h	d'	d	a	As perlu	As min	s	Tul	As Susut	s Perlu	Tul pakai
					kN	kN m	mm	mm	mm	mm	mm2	mm2	mm		mm2	mm2	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19
PLAT ATAP	arah-X	1,5	3	1/16	9,28	0,8352	100	25	75	0,43194172	45,89381	250	202,6	P10-200	140	201,92857	P6-200
	arah-Y	4,5	3	1/8	9,28	1,6704	100	25	75	0,86586541	91,9982	250	202,6	P10-200	140	201,92857	P6-200
	arah-X	1	7	1/16	9,28	0,8352	100	25	75	0,43194172	45,89381	250	202,6	P8-200	140	201,92857	P6-200
	arah-Y	7	7	1/12	9,28	1,1136	100	25	75	0,57636138	61,2384	250	202,6	P8-200	140	201,92857	P6-200

Keterangan **Tabel 5.1** Pelat Dua Arah

1. Pelat yang ditinjau
2. Arah yang ditinjau
3. L = panjang pelat
4. Perbandingan Ly/Lx
5. Letak Penulangan
6. Wu = 1,2 . WD + 1,6 .WL (beban ultimit)
7. Mu = x. Wu.Ln2 (momen ultimit)
8. h = pelat beton
9. d' = f.tul.sengkang + 1/2.f.tul.pokok
10. d = h - d' (tinggi efektif balok)
11. a = nilai dr pers. 0,85.fc'.b.a2 - 2.0,85.fc'.b.d.a + 2. Mn = 0 (tinggi balok tegangan tekan)
12. As perlu = (0,85.fc'.b.a)/fy
13. As min = 0,0025.b.h
14. s = (1/4.p.f2.b)/As (jarak tulangan)
15. Tulangan dipakai
16. As. Susut = 0,0014.b (luas tul. Susut)
17. As perlu = (0,85.fc'.b.a)/fy
18. Tulangan dipakai

Tabel 5.1 Pelat Satu Arah

	Arah	L (m)	Ly/Lx	letak	Wu	Mu	h	d'	d	a	As perlu	As min	s	Tul	As Susut	s Perlu	Tul pakai
					kN	kN m	mm	mm	mm	mm	mm2	mm2	mm		mm2	mm2	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19
PLAT ATAP	arah-X	1,5	3	1/16	9,28	0,8352	100	25	75	0,43194172	45,89381	250	202,6	P10-200	140	201,92857	P6-200
	arah-Y	4,5	3	1/8	9,28	1,6704	100	25	75	0,86586541	91,9982	250	202,6	P10-200	140	201,92857	P6-200
	arah-X	1	7	1/16	9,28	0,8352	100	25	75	0,43194172	45,89381	250	202,6	P8-200	140	201,92857	P6-200
	arah-Y	7	7	1/12	9,28	1,1136	100	25	75	0,57636138	61,2384	250	202,6	P8-200	140	201,92857	P6-200

Keterangan **Tabel 5.1** Pelat Dua Arah

1. Pelat yang ditinjau
2. Arah yang ditinjau
3. L = panjang pelat
4. Perbandingan Ly/Lx
5. Letak Penulangan
6. Wu = 1,2 . WD + 1,6 .WL (beban ultimit)
7. Mu = x. Wu.Ln2 (momen ultimit)
8. h = pelat beton
9. d' = f.tul.sengkang + 1/2.f.tul.pokok
10. d = h - d' (tinggi efektif balok)
11. a = nilai dr pers. 0,85.fc'.b.a2 - 2.0,85.fc'.b.d.a + 2. Mn = 0 (tinggi balok tegangan tekan)
12. As perlu = (0,85.fc'.b.a)/fy
13. As min = 0,0025.b.h
14. s = (1/4.p.f2.b)/As (jarak tulangan)
15. Tulangan dipakai
16. As. Susut = 0,0014.b (luas tul. Susut)
17. As perlu = (0,85.fc'.b.a)/fy
18. Tulangan dipakai

- **Penulangan sejajar arah x**

1. Tulangan lapangan

Digunakan tulangan pokok P10

$d' = 20 + 0{,}5.10 = 25$ mm

$d = 120 - d'$

$= 120 - 25 = 95$ mm

$Mu = Mn\ lx = 3{,}97184$ kNm

$$Mn\ lx = \frac{Mlx}{\phi} = \frac{3{,}91784}{0{,}8} = 4{,}9648\,\text{kN/m}$$

$Mn = 0{,}85.fc'.b.a.(d\text{-}a/2)$

$Mu/0{,}8 = C_c.[d\text{-}(a/2)] = 0{,}85.fc'.b.a.[d - (a/2)]$

$0{,}85.fc'.b.a^2 - 2.0{,}85.fc'.b.d.a + 2.Mn = 0$

$0{,}85.30.1000.a^2 - 2.0{,}85.30.1000.95.a + 2.4{,}9648.10^6 = 0$

didapat $a = 2{,}072$

$A_{s,perlu} = (0{,}85.fc'.b.a)/f_y$

$= (0{,}85.30.1000.2{,}072)/240$

$= 220{,}1553\ \text{mm}^2$

$A_{s,min} = 0{,}0025.b.h$

$= 0{,}0025.1000.120 = 300\ \text{mm}^2$

$A_{s,perlu} < A_{s,min}$, maka diambil $A_{s,min}$

Direncanakan tulangan P10 = 1/4. $\pi \varnothing^2$ = 1/4. $\pi 10^2$ = 78,54 mm

S = (1/4. $\pi \varnothing^2 . b$)/A_s

= (78.54.1000)/300= 261,8 mm

Dipakai **P10- 150** ,untuk tulangan **lapangan**

Luas tulangan dipakai $A_{s\ pakai}$ = (78,54.1000)/200 = 392,7 mm^2

$A_{s\ pakai}$ = 392,7 mm^2 > $A_{s,min}$ = 300 mm^2 *-aman-*

2. Tulangan Tumpuan

Digunakan tulangan pokok P10

d' = 20 + 0,5.10 = 25 mm

d = 120 – d'

= 120 – 25 = 95 mm

Mu = $Mn\ tx$ = 8,94592 kNm

$$Mn\ tx = \frac{Mtx}{\phi} = \frac{8,94592}{0,8} = 11,1824 \text{ kNm}$$

Mn = 0,85.fc'.b.a.(d-a/2)

Mu/0,8 = C_c.[d- (a/2)]= 0,85.fc'.b.a.[d – (a/2)]

0,85.fc'.b.a^2 - 2.0,85.fc'.b.d.a + 2.Mn = 0

0,85.30.1000. a- 2.0,85.30.1000.95. a + 2.11,1824.10^6 = 0

didapat a = 4,734 mm

$A_{s,perlu}$ = $(0,85.fc'.b.a)/f_y$

= (0,85.30.1000.4,734)/240

= 502,9885 mm^2

$A_{s,min}$ = 0,0025.*b.h*

= 0,0025.1000.120 = 300 mm^2

$A_{s,perlu} > A_{s,min}$, maka diambil $A_{s,perlu}$

Direncanakan tulangan P10 = 1/4. $\pi \varnothing^2$.= 1/4. $\pi 10^2$ = 78,54 mm

S = $(1/4. \pi \varnothing^2.b)/A_s$

= (78.54.1000)/502,9885= 156,1467 mm

Dipakai **P10- 150** ,untuk tulangan **tumpuan**

Luas tulangan dipakai $A_{s\ pakai}$ = (78,54.1000)/150 = 523,6 mm^2

$A_{s\ pakai}$ = 523,6 mm^2 > A_{perlu} = 488 mm^2 *-aman-*

Dengan cara yang sama dapat di hitung pelat lantai yang lain. (Disajikan pada Tabel 5.2)

Tabel 5.2 Pelat Dua Arah

	Arah	L (m)	Ly/Lx	letak	Wu	Mu	h	d'	d	a	As perlu	As min	s	Tul
					kN	kN m	mm	mm	mm	mm	mm2	mm2	mm	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PELAT LANTAI	arah-X	4	1,125	lx	9,28	3,97184	120	25	95	2,072049837	220,155295	300	261,8	P10-150
				tx	9,28	8,94592	120	25	95	4,734009618	502,988522	300	156,1467	P10-150
	arah-Y	4,5	1,125	ly	9,28	3,89934	120	25	95	2,033813864	216,092723	300	261,8	P10-100
				ty	9,28	10,24164	120	25	95	5,440424035	578,045054	300	135,8718	P10-100
	arah-X	3	1,5	lx	9,28	3,00672	120	25	95	1,56433481	166,210574	300	261,8	P10-150
				tx	9,28	-6,34752	120	25	95	3,220699867	342,199361	300	229,5153	P10-150
	arah-Y	4,5	1,5	ly	9,28	3,19464	120	25	95	1,662976263	176,691228	300	261,8	P10-100
				ty	9,28	-10,71144	120	25	95	5,375002747	571,094042	300	137,5255	P10-100
	arah-X	2,75	1,6364	lx	9,28	2,6219248	120	25	95	1,362675449	144,784266	300	261,8	P10-150
				tx	9,28	-5,5947496	120	25	95	2,844288861	302,205691	300	259,8892	P10-150
	arah-Y	4,5	1,6364	ly	9,28	2,8714176	120	25	95	1,493377397	158,671348	300	261,8	P10-100
				ty	9,28	10,71144	120	25	95	5,697934943	605,405588	300	129,7312	P10-100
	arah-X	2,5	1,8	lx	9,28	2,16688	120	25	95	1,124759471	119,505694	300	261,8	P10-150
				tx	9,28	-4,62376	120	25	95	2,356611506	250,389973	300	261,8	P10-150
	arah-Y	4,5	1,8	ly	9,28	2,06712	120	25	95	1,072681416	113,9724	300	261,8	P10-100
				ty	9,28	-10,71144	120	25	95	5,375002747	571,094042	300	137,5255	P10-100
	arah-X	3	1,667	lx	9,28	3,42432	120	25	95	1,783679793	189,515978	300	261,8	P10-200
				tx	9,28	-6,93216	120	25	95	3,512047636	373,155061	300	210,4755	P10-200
	arah-Y	5	1,667	ly	9,28	2,552	120	25	95	1,326076619	140,895641	300	261,8	P10-100
				ty	9,28	-13,224	120	25	95	6,59463858	700,680349	300	112,0911	P10-100
	arah-X	2	2,5	lx	9,28	1,55904	120	25	95	0,807893424	85,8386763	300	261,8	P10-200
				tx	9,28	-3,08096	120	25	95	1,576678872	167,52213	300	261,8	P10-200
	arah-Y	5	2,5	ly	9,28	2,32	120	25	95	1,204749483	128,004633	300	261,8	P10-100
				ty	9,28	-13,224	120	25	95	6,59463858	700,680349	300	112,0911	P10-100
	arah-X	3,5	1,429	lx	9,28	3,9310544	120	25	95	2,050537872	217,869649	300	261,8	P10-150
				tx	9,28	-8,3975416	120	25	95	4,238542876	450,345181	300	174,3996	P10-150
	arah-Y	5	1,429	ly	9,28	4,10872	120	25	95	2,144282278	227,829992	300	261,8	P10-100
				ty	9,28	-13,224	120	25	95	6,59463858	700,680349	300	112,0911	P10-100
	arah-X	2,75	1,81	lx	9,28	1,47378	120	25	95	0,763532724	81,1253519	300	261,8	P10-200
				tx	9,28	-3,64936	120	25	95	1,864753095	198,130016	300	261,8	P10-200
	arah-Y	5	1,81	ly	9,28	4,872	120	25	95	2,548104718	270,736126	300	261,8	P10-100
				ty	9,28	-12,064	120	25	95	6,033386056	641,047269	300	122,5183	P10-100

Tabel 5.2 Lanjutan

	Arah	L (m)	Ly/Lx	letak	Wu	Mu	h	d'	d	a	As perlu	As min	s	Tul
					kN	kN m	mm	mm	mm	mm	mm2	mm2	mm	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PELAT LANTAI	arah-X	2,5	1,1	lx	9,28	2,436	120	25	95	1,265393421	134,448051	300	261,8	P10-200
				tx	9,28	-4,814	120	25	95	2,452351353	260,562331	300	261,8	P10-200
	arah-Y	2,75	1,1	ly	9,28	0,56144	120	25	95	0,290143793	30,827778	300	261,8	P10-200
				ty	9,28	-4,00026	120	25	95	2,042167911	216,980341	300	261,8	P10-200
	arah-X	2,25	1,333	lx	9,28	1,5028902	120	25	95	0,778676386	82,734366	300	261,8	P10-200
				tx	9,28	-3,3036336	120	25	95	1,689635675	179,523791	300	261,8	P10-200
	arah-Y	3	1,333	ly	9,28	1,5593184	120	25	95	0,80803831	85,8540704	300	261,8	P10-200
				ty	9,28	-4,76064	120	25	95	2,425506987	257,710117	300	261,8	P10-200
	arah-X	2,25	2	lx	9,28	1,92618	120	25	95	0,999155198	106,16024	300	261,8	P10-200
				tx	9,28	-3,89934	120	25	95	1,991176069	211,562457	300	261,8	P10-200
	arah-Y	4,5	2	ly	9,28	2,25504	120	25	95	1,170805998	124,398137	300	261,8	P10-100
				ty	9,28	-10,71144	120	25	95	5,375002747	571,094042	300	137,5255	P10-100
	arah-X	2,25	1,7778	lx	9,28	1,85832	120	25	95	0,963774189	102,401008	300	261,8	P10-200
				tx	9,28	-3,84192	120	25	95	1,9621515	208,478597	300	261,8	P10-200
	arah-Y	4	1,7778	ly	9,28	1,96323556	120	25	95	1,018480934	108,213599	300	261,8	P10-150
				ty	9,28	-8,46336	120	25	95	4,271049035	453,79896	300	173,0722	P10-150
	arah-X	3,84	1	lx	9,28	2,87362253	120	25	95	1,494533309	158,794164	300	261,8	P10-150
				tx	9,28	-7,1156367	120	25	95	3,603303417	382,850988	300	205,1451	P10-150
	arah-Y	3,84	1	ly	9,28	2,87362253	120	25	95	1,494533309	158,794164	300	261,8	P10-150
				ty	9,28	-7,1156367	120	25	95	3,603303417	382,850988	300	205,1451	P10-150
	arah-X	2,5	1	lx	9,28	1,218	120	25	95	0,630575739	66,9986723	300	261,8	P10-200
				tx	9,28	-3,016	120	25	95	1,543701372	164,018271	300	261,8	P10-200
	arah-Y	2,5	1	ly	9,28	1,218	120	25	95	0,630575739	66,9986723	300	261,8	P10-200
				ty	9,28	-3,016	120	25	95	1,543701372	164,018271	300	261,8	P10-200
	arah-X	4,25	1,0588	lx	9,28	3,91442	120	25	95	2,041765651	216,9376	300	261,8	P10-100
				tx	9,28	-9,40644	120	25	95	4,735650597	503,162876	300	156,0926	P10-100
	arah-Y	4,5	1,0588	ly	9,28	3,94632	120	25	95	2,05858898	218,725079	300	261,8	P10-100
				ty	9,28	-9,9929224	120	25	95	5,023488591	533,745663	300	147,1487	P10-100

Tabel 5.2 Lanjutan

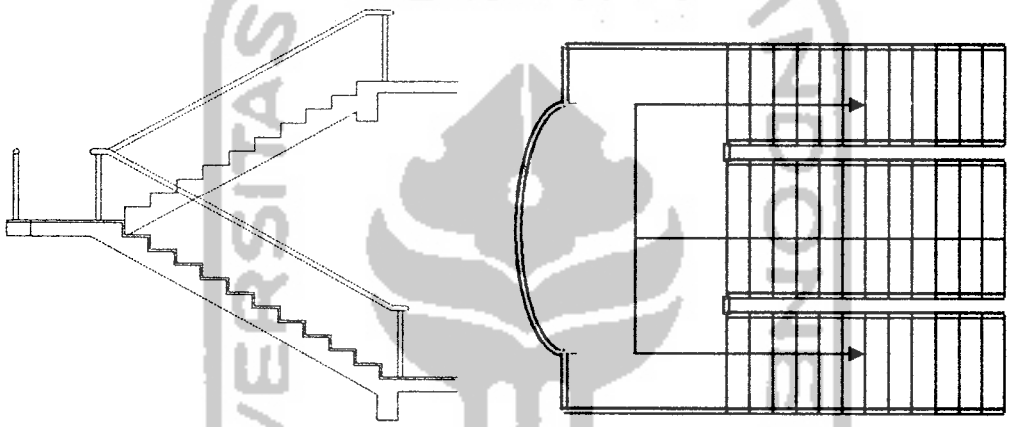
	Arah	L (m)	Ly/Lx	letak	Wu	Mu	h	d'	d	a	As perlu	As min	s	Tul	As Susut	s Perlu	Tul pakai
					kN	kN m	mm	mm	mm	mm	mm2	mm2	mm		mm2	mm2	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19
PELAT ATAP	arah-X	2,75	1,81	lx	9,28	1,47378	100	25	75	0,763532724	81,1253519	250	202,6	P8-200	140	201,92857	P6-200
				tx	9,28	-3,64936	100	25	75	1,864753095	198,130016	250	202,6	P8-200	140	201,92857	P6-200
	arah-Y	5	1,81	ly	9,28	4,872	100	25	75	2,548104718	270,736126	250	187,0825	P10-100	140	201,92857	P6-200
				ty	9,28	-12,064	100	25	75	6,033386056	641,047269	250	122,5183	P10-100	140	201,92857	P6-200
	arah-X	2,75	1,636	lx	9,28	1,6394048	100	25	75	0,849726292	90,2834186	250	202,6	P8-200	140	201,92857	P6-200
				tx	9,28	-3,9392034	100	25	75	2,011321049	213,702862	250	202,6	P8-200	140	201,92857	P6-200
	arah-Y	4,5	1,636	ly	9,28	3,94632	100	25	75	2,05858898	218,725079	250	202,6	P10-100	140	201,92857	P6-200
				ty	9,28	-9,9935856	100	25	75	5,023813635	533,780199	250	147,1392	P10-100	140	201,92857	P6-200
	arah-X	1,75	2	lx	9,28	1,16522	100	25	75	0,603163479	64,0861197	250	202,6	P8-200	140	201,92857	P6-200
				tx	9,28	-2,35886	100	25	75	1,20946307	128,505451	250	202,6	P8-200	140	201,92857	P6-200
	arah-Y	3,5	2	ly	9,28	1,36416	100	25	75	0,706528203	75,0686216	250	202,6	P8-150	140	201,92857	P6-200
				ty	9,28	-6,47976	100	25	75	3,286675538	349,209276	250	155,04	P8-150	140	201,92857	P6-200
	arah-X	1	1,5	lx	9,28	0,33408	100	25	75	0,172540586	18,3324373	250	202,6	P8-200	140	201,92857	P6-200
				tx	9,28	-0,70528	100	25	75	0,363227179	38,5928878	250	202,6	P8-200	140	201,92857	P6-200
	arah-Y	1,5	1,5	ly	9,28	0,35496	100	25	75	0,183334798	19,4793223	250	202,6	P8-200	140	201,92857	P6-200
				ty	9,28	-1,19016	100	25	75	0,612145426	65,0404515	250	202,6	P8-200	140	201,92857	P6-200

Keterangan **Tabel 5.2** Pelat Dua Arah

1. Pelat yang ditinjau
2. Arah yang ditinjau
3. L = panjang pelat
4. Perbandingan Ly/Lx
5. Letak Penulangan
6. Wu = 1,2 . WD + 1,6 .WL (beban ultimit)
7. Mu = x. Wu.Ln2 (momen ultimit)
8. h = pelat beton
9. d' = f.tul.sengkang + 1/2.f.tul.pokok
10. d = h - d' (tinggi efektif balok)
11. a = nilai dr pers. 0,85.fc'.b.a2 - 2.0,85.fc'.b.d.a + 2. Mn = 0 (tinggi balok tegangan tekan)
12. As perlu = (0,85.fc'.b.a)/fy
13. As min = 0,0025.b.h
14. s = (1/4.p.f2.b)/As (jarak tulangan)
15. Tulangan dipakai
16. As. Susut = 0,0014.b (luas tul. Susut)
17. As perlu = (0,85.fc'.b.a)/fy
18. Tulangan dipakai

5.2 Perencanaan Pelat Tangga

Perencanaan tangga meliputi perencanaan optrede dan antrede, pembebanan tangga dan bordes, perhitungan struktur tangga, penentuan tulangan yang dipakai pada pelat tangga dan bordes. Perencanaan tangga disajikan pada gambar 5.3



Gambar 5.3 Tangga tampak atas

5.2.1 Perencanaan Optrede dan Antrede

Langkah-langkah perencanaan optrede dan antrede, sebagai berikut :

$tg\ \alpha^0 = O/A = 1.83/3.64 = 0.50$

$\alpha^0 = 27^0$

$O = A.\ 0{,}50$

$2.O + A = 65$

$2.0{,}50.A + A = 65$

dari persamaan diatas didapat A =32,50 cm, diambil A = 33 cm

O = 33.0,50 = 16,5 cm ~ 17 cm

Optrede = 183/17 = 10,76 ~ 11 buah

Aptrede = 11- 1 = 10 buah

Tinggi injakan, O = 183/11 =16,64 cm

Lebar injakan, A = 364/10 = 36.4 cm

ht = 140 mm

$hb = (ht/\cos 30^0) + \frac{1}{2} O$

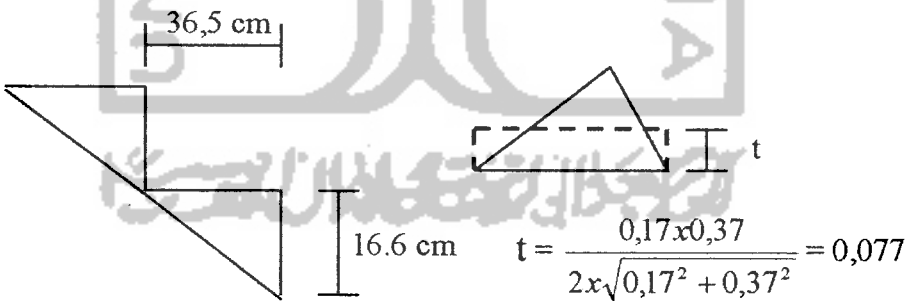
= (140/cos 30^0) + ½ 166,4 =240,326 mm ~ 240 mm

5.2.2 Pembebanan Plat Tangga dan Bordes

Pembebanan tangga dan bordes menurut PPPURDG 1987. Pelat tangga menggunakan beton.

a. Beban Mati

- Berat sendiri (pada SAP 2000 otomatis terhitung)



- Berat Optrede dan Antrede 0,077 x 1 x 24 = 1,85 kN/m^2
- Speci 0,040 x 1 x 21 = 0,84 kN/m^2
- Sandaran 0,080 x 1 x 24 = 1,92 kN/m^2
- Tegel 0,003 x 1 x 24 = 0,72 kN/m^2

W_D = 5,33 kN/m^2

b. Beban Hidup

$WL = 3{,}0\ kN/m^2$

5.2.3 Analisis Struktur Tangga dan Bordes

Analisis 3 dimensi struktur tangga dan bordes mengunakan program SAP2000 dengan input sebagai berikut :

1. Nomor join dan elemen sesuai dengan gambar
2. Dukungan diangap jepit dan bordes mengantung
3. Beban berupa terbagi merata terdiri dari beban hidup dan beban mati
4. Pelat tangga berupa lemen balok
5. Dengan kobinasi beben $1{,}2\ W_D + 1{,}6\ W_L$
6. Modulus elastisitas beton $E = 4700.\sqrt{f_c'} = 4700\sqrt{30} = 25743$ MPa

Data input program dan hasil program disajikan dalam lampiran-lampiran.

5.2.4 Penulangan Pelat Tangga dan Bordes

Penulangan pelat tangga dan bordes, diplih pelat tangga yang memiliki moment yang terbesar untuk mewakili tulangan atas dan bawah yang digunakan, sebagai berikut :

Profil balok 25 X 45 tebal selimut = 0.03 cm

Frame : 4 ; Join : 24

b = 45 cm , h = 25 cm

d' = 3 cm , d = h – d' = 25 – 3 = 22 cm

Dari analisis SAP 2000 di dapat :

- $Mu_{,Atas}$ = -23,876 kN m

$Mn = Mu / 0{,}8$

$Mn = 0{,}85.fc'.b.a.(d-a/2)$

$Mu/0{,}8 = C_c.[d-(a/2)] + Cs\ (d-d')$

$0{,}85.fc'.b.a^2 - 2.0{,}85.fc'.b.d.a + 2.Mn = 0$

$0{,}85.30.450.a - 2.0{,}85.30.450.220.a + 2.29{,}845.10^6 = 0$

didapat a = 12,158 mm

$A_{s,perlu} = (0{,}85.fc'.b.a)/f_y$

$= (0{,}85.30.450.12{,}158)/240$

$= 581.301\ mm^2$

$A_{s,min} = 0{,}0025.b.h$

$= 0{,}0025.450.250 = 381\ mm^2$

$A_{s,perlu} > A_{s,min}$, maka diambil $A_{s,perlu}$

Direncanakan tulangan P12 = 1/4. $\pi \varnothing^2$ = 1/4. $\pi 12^2$ =113,04 mm

$S = (1/4.\ \pi \varnothing^2.b)/A_s$

$= (113{,}04.450)/581{,}301 = 87{,}507$ mm

Dipakai **P12- 85** ,untuk tulangan **atas**

Dari analisis SAP 2000 di dapat :

- $Mu_{,Bawah}$ = 11,938 kN m

$Mn = Mu / 0{,}8$

$0{,}85.fc'.b.a^2 - 2.0{,}85.fc'.b.d.a + 2.Mn = 0$

$0{,}85.30.450.a^2 - 2.0{,}85.30.450.220.a + 2.29{,}845.10^6 = 0$

didapat a = 5,992 mm

$A_{s,perlu}$ = $(0,85.fc'.b.a)/f_y$

= (0,85.30.450.5,992)/240

= 286 mm^2

$A_{s,min}$ = 0,0025.$b.h$

= 0,0025.450.250 = 381 mm^2

$A_{s,perlu}$ < $A_{s,min}$, maka diambil $A_{s,min}$

Direncanakan tulangan P12 = 1/4. $\pi.\varnothing^2$.= 1/4. $\pi.12^2$ =113,04 mm

S = $(1/4.\ \pi.\varnothing^2.b)/A_s$

= (113,04.450)/381= 133.51mm

Dipakai **P12- 100** ,untuk tulangan **bawah**

BAB VI

PERENCANAAN STRUKTUR PORTAL BETON BERTULANG

Perencanaan struktur portal beton bertulang merupakan inti dari desain struktur bangunan, maka penentuan beban dan sifat struktur akan sangat mempengaruhi dimensi dan tulangan beton yang diperlukan. Perencanaan dengan daktilitas penuh ini struktur diberi beban gempa dikalikan factor pengali K = 1, tetapi dengan persyaratan daktilitas yang ketat. Pada bab ini akan dibahas desain balok, desain kolom, dan desain pertemuan balok kolom .

Perencanaan struktur portal dihitung menggunakan program aplikasi komputer SAP 2000 dengan pemasukan data-data sebagai berikut :

1. Nomor joint dan frame, disesuaikan dengan bentuk dan ukuran portal.
2. Dukungan portal dianggap jepit.
3. Ukuran penampang balok dan kolom.
4. Modulus elastisitas beton $E = 4700\sqrt{fc'}$ dengan fc' = 30 MPa. Jadi $E = 4700\sqrt{30} = 25742.960$ MPa.
5. Pembebanan portal, meliputi beban mati, beban hidup dan bebean gempa.
6. Jenis pembebanan, beban merata dan beban terpusat.

Data-data input program disajikan dalam lampiran-lampiran. Hasil output dari perhitungan analisis struktur portal, berupa reaksi dukungan, joint diaplacements, dan gaya-gaya dalam untuk keperluan perhitungan desain balok dan kolom, sebagai elemen portal, disajikan dalam lampiran-lampiran.

Selanjutnya akan dibahas mengenai perhitungan pembebanan portal sebagai input dalam program aplikasi computer SAP 2000 untuk kepentingan analisis struktur portal.

6.1 Perhitungan Pembebanan Portal

Pembebanan portal meliputi beban mati, beban hidup dan beban gempa kiri/kanan. Besarnya beban yang dipakai sesuai dengan Pedoman Perencanaan Pembebanan untuk Rumah dan Gedung 1987.

1. Beban yang digunakan meliputi

a. Beban Mati

Beban mati yang ditetapkan seperti tercantum dibawah ini

Beton bertulang : 24 kN/m^3

1. Tegel : 24 kN/m^3
2. Spesi : 21 kN/m^2
3. Plafond : 0.18 kN/m^2
4. Tembok : 24 kN/m^3
5. Aspal : 2.5 kN/m^2

b. Beban Hidup

- Untuk ruang kuliah ditetapkan = 2,5 kN/m^2,

c. Beban Gempa

Pembebanan gempa khusus pada portal, ditentukan berdasarkan persyaratan dan analisis gaya-gaya dalam struktur dalam batas elatisitas dengan pembebanan gempa menurut PPKGURDG 1987

$$Vb = C.I.K.Wt$$

dengan :

Vb = gaya gempa dasar

C = koefisien gempa dasar

I = faktor keutamaan struktur = 1,5 (bangunan sekolah)

K = faktor jenis struktur = 1,0 (portal daktail beton bertulang)

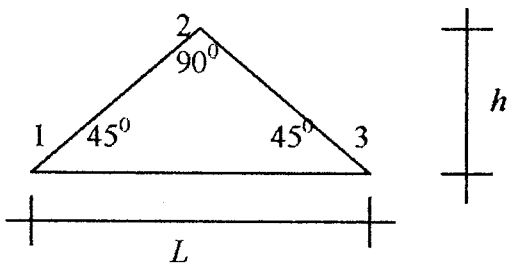
Wt = berat kombinasi beban mati keseluruhannya dan beban hidup vertikal yang direduksi

2 Jenis Pembebanan Portal

a. Pembebanan Merata

Pembebanan merata adalah distribusi beban pelat kebalok tumpuan, dalam hal ini digunakan cara pembebanan amplop atau *Trapezodial*, dengan menggunakan rumus sebagai berikut :

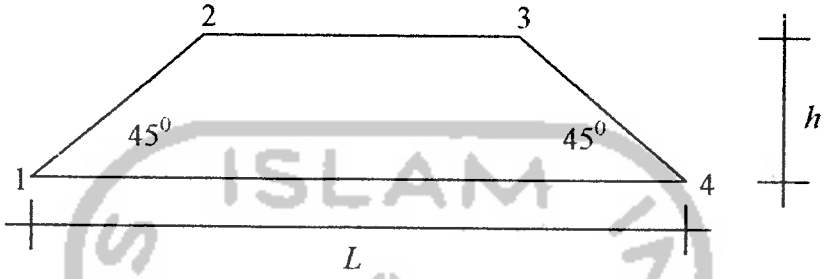
- untuk beban betang pendek (segitiga)



Gambar 6.1 Distribusi beban merata pada bentang pendek

(1 = 0 ; 2 = *h*. q_D ; 3 = 0)

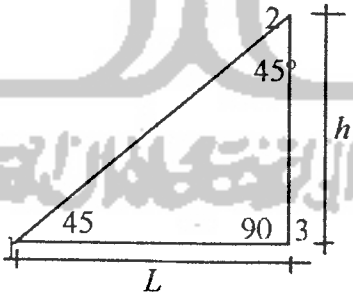
- untuk beban bentang panjang (trapesium)



Gambar 6.2 Distribusi beban merata pada bentang panjang

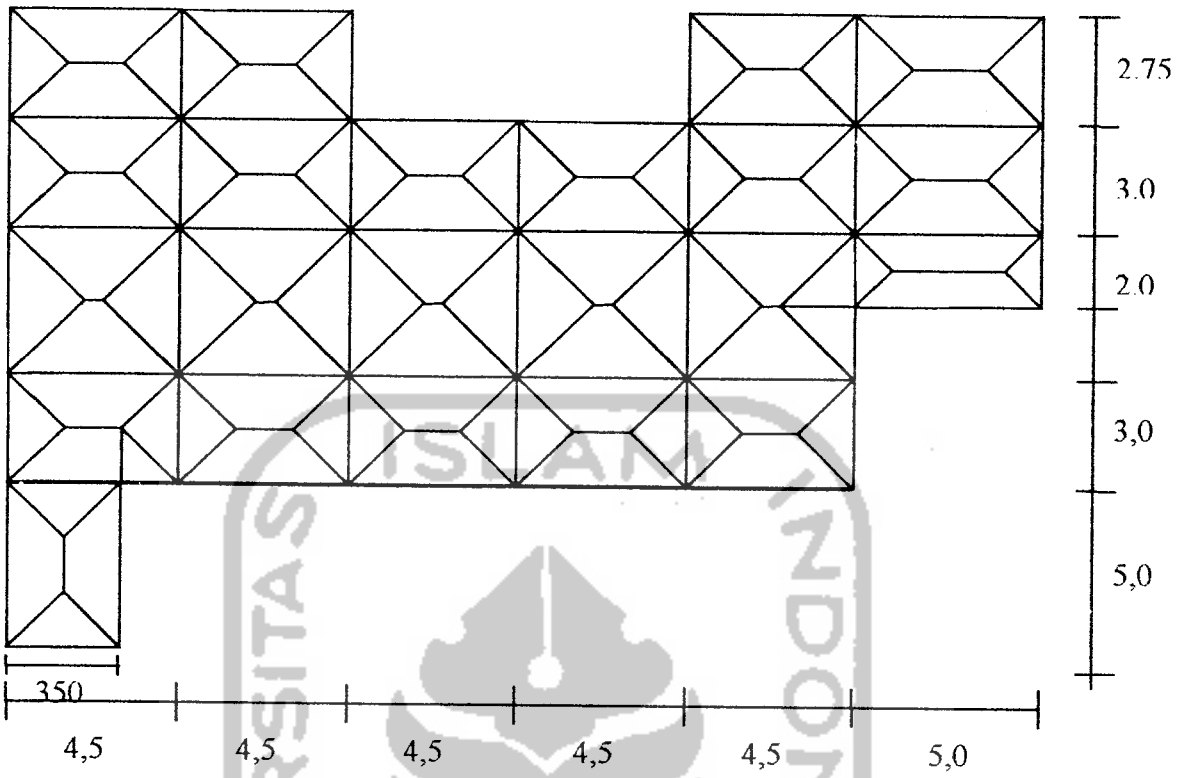
1= 0 ; 2 = *h*. q_D ; 3 = *h*. q_D ; 4 = 0)

- untuk beban bentang terpotong



Gambar 6.3 Distribusi beban terpotong

(1 = 0 ; 2 = *h*. q_D ; 3 = 0)



Gambar 6.4 Pembagian beban amplop pada balok

Berikut beban yang digunakan pada pembebanaan amplop ini :

1. Beban gravitasi mati (q_D)

   - Pelat lantai untuk per m^2
     - Pelat beton = 0,12 . 1,0 . 1,0 . 24 = 2,88 kN/m^2
     - Tegel = 0,02 . 1,0 . 1,0 . 24 = 0,48 kN/m^2
     - Spesi = 0,04 . 1,0 . 1,0 . 21 = 0,84 kN/m^2
     - Plafond = 1,0 . 1,0 . 0,18 = 0,18 kN/m^2

     q_D = 4,40 kN/m^2

   - Tembok q_D = 2.5 kN/m^2
   - Berat sendiri bolok (dihitung sendiri oleh SAP 2000)

2. Beban hidup

- untuk ruang kuliah $q_L = 2{,}5$ kN/m^2

b. Pembebanan Titik

Pembebanaan titik untuk beban mati dan beban hidup, berasal dari reaksi tumpuan rangka baja yang membebani balok-balok atap disajikan pada tabel 6.1 dan tabel 6.2 dan reaksi tumpuan pada tangga disajikan pada tabel 6.3.

Tabel 6.1 Reaksi Tumpuan Kuda-Kuda 1

JOINT	LOAD	F1 (kN)	F2 (kN)	F3 (kN)
3	DL	9,006	9,0069	24,3652
	LL	1,5947	1,5951	6,0564
4	DL	-9,0421	9,0367	24,1829
	LL	-1,6053	1,6042	6,017
6	DL	0,741	-2,97E-03	13,3889
	LL	0,1636	-5,09E-04	3,9777
7	DL	-0,7003	-7,80E-03	15,2821
	LL	-0,1518	-1,39E-03	5,0333
10	DL	0,7409	3,04E-03	13,3887
	LL	0,1636	5,21E-04	3,9776
11	DL	-0,6992	7,55E-03	15,2799
	LL	-0,1516	1,36E-03	5,0328
13	DL	9,0015	-9,0023	24,3589
	LL	1,5935	-1,5939	6,0548
14	DL	-9,0479	-9,0411	24,1912
	LL	-1,6067	-1,6054	6,019

Tabel 6.2 Reaksi Tumpuan Kuda-Kuda 2

JOINT	LOAD	F1	F2	F3
3	DL	-7,1385	0,0976	19,1156
	LL	-1,8566	0,024	5,0711
12	DL	9,85E-03	-0,0976	8,1929
	LL	2,37E-03	-0,024	3,2645
20	DL	7,1385	0,0976	19,1156
	LL	1,8566	0,024	5,0711
32	DL	-9,85E-03	-0,0976	8,1929
	LL	-2,37E-03	-0,024	3,2645

Tabel 6.3 Reaksi Tumpuan Tangga

JOINT	LOAD	F1 (kN)	F2 (kN)	F3 (kN)	M1 (kN m)	M2 (kN m)	M3 (kN m)
1	LD	-2,3097	-74,0823	48,1039	-3,456	-1,6698	-2,8663
	LL	-0,5533	-18,7671	12,3375	-0,9792	-0,4212	-0,678
2	LD	-0,4787	-38,0892	28,6979	-3,9822	-0,4339	-0,5733
	LL	-0,1111	-9,9094	7,5637	-1,1145	-0,11	-0,1295
3	LD	0,4787	-38,0892	28,6979	-3,9822	0,4339	0,5733
	LL	0,1111	-9,9094	7,5637	-1,1145	0,11	0,1295
4	LD	2,3097	-74,0823	48,1039	-3,456	1,6698	2,8663
	LL	0,5533	-18,7671	12,3375	-0,9792	0,4212	0,678
29	LD	0,0316	27,9048	23,5903	-5,9286	0,8913	0,2623
	LL	-0,0006	6,9879	6,078	-1,5939	0,2259	0,0531
30	LD	-0,2355	31,342	25,0642	-5,2171	1,2009	0,0212
	LL	-0,0707	7,9792	6,5142	-1,4105	0,3048	-0,0116
31	LD	-0,9727	52,9248	36,2386	-4,1276	1,7351	-0,818
	LL	-0,2697	13,7093	9,484	-1,1297	0,4437	-0,2413
32	LD	0,9727	52,9248	36,2386	-4,1276	-1,7351	0,818
	LL	0,2697	13,7093	9,484	-1,1297	-0,4437	0,2413
33	LD	0,2355	31,342	25,0642	-5,2171	-1,2009	-0,0212
	LL	0,0707	7,9792	6,5142	-1,4105	-0,3048	0,0116
34	LD	-0,0316	27,9048	23,5903	-5,9286	-0,8913	-0,2623
	LL	6,02E-04	6,9879	6,078	-1,5939	-0,2259	-0,0531

c. Beban Gempa

Perhitungan gaya geser dasar horisontal total akibat gempa dan distribusinya kesepanjang tinggi gedung.

a. Mencari berat bangunan tiap lantai.

Berat bangunan tiap lantai didapat dari jumlah reaksi tiap lantai berdasarkan hasil analisis SAP 2000 berikut ini:

-	Lantai Dasar	=	7756.705 kN
-	Lantai 1	=	7756.705 kN
-	Lantai 2	=	8051.958 kN
-	Lantai 3	=	8194.182 kN
-	Atap	=	2749.546 kN
	Berat Total	=	35846.13 kN

b. Berat Total Bangunan (Wt) = 35846.13 kN

c. Waktu getar alami (PPKGURDG, 1987).

$T = 0{,}06.H^{3/4} = 0{,}06.19.,3^{3/4} = 0{,}552$ detik

d. berdasrkan grafik koefisien gempa dasar PPKGURDG, 1987 untuk wilayah 3, jenis tanah lunak dan $T = 0{,}552$ detik, diperoleh koefisien gempa dasar $C =$ 0,007

e. Faktor keutamaan ruang kuliah I = 1,5 dan faktor jenis struktur dengan daktilitas penuh K = 1,0 (PPKGURDG, 1987).

f. Gaya geser horisontal total akibat gempa

$V_x = V_y = C.I.K.\ Wt$

= 0,07 . 1,5 . 1,0 . 35846,13

= 2509,23 kN

g. Distribusi gaya geser horisontal total akibat gempa kesepanjan tinggi gedung dihitung dengan rumus berikut : (PPKGURDG, 1987).

$$F_i = \frac{W_i h_i}{\Sigma W_i . h_i} V_b, \text{ untuk } \frac{h_w}{l_w} < 3,0$$

$$F_i = 0,9 . \frac{W_i h_i}{\Sigma W_i . h_i} V_b + (0,1 . V_b \text{ dipuncak}), \text{ untuk } \frac{h_w}{l_w} > 3,0$$

dengan :

Fi = beban horizontal tiap lantai

Wi = beban pada tiap lantai

hi = tinggi struktur setiap lantai dari penjepit lateral

Perhitungan distribusi gaya geser gempa disajikan pada tabel berikut ini :

$$\frac{h_w}{l_w} = \frac{19.3}{55} = 0.354 < 3,0$$

Tabel 6.4 Distribusi gaya geser gempa

Lantai	hi (m)	Wi (kN)	Wi.hi	Fi x,y
atap	19,3	2749,546	53066,238	368,437
3	15,3	8194,182	125370,985	870,447
2	11,3	8051,958	90987,125	631,721
1	7,3	9093,739	66384,295	460,904
Dasar	3,3	7756,705	25597,127	177,720
		35846,130	361405,769	

h. Gaya geser gempa pada analisis tiga dimensi dibagi jumlah kolom yang bekerja pada lantai itu (Gidion)

6.2 Desain Balok

6.2.1 Momen Rencana Balok

Momen rancana balok dihitung berdasarkan tipe-tipe pembebanan menurut SK SNI T–15-1991-03 adalah sebagai berikut.

$$M_{u1} = 1{,}2.M_D + 1{,}6M_L$$

$$M_{u2} = 1{,}05.(M_D + 0{,}9M_L + M_{ex})$$

$$M_{u3} = 1{,}05.(M_D + 0{,}9M_L + M_{ey})$$

$$M_{u4} = 0{,}9.(M_D + M_{ex})$$

$$M_{u5} = 0{,}9.(M_D + M_{ey})$$

Contoh perhitungan diambil pada Balok 1B1

Diketahui:

MD = -11736,927 Nmm ; ML = 0 KN

Meki = 0 KN : Meka = 0 KN

$M_{u1} = 1{,}2.11736{,}927 + 1{,}6.0 = -14084313$ Nmm

Hasil perhitungan momen rencana balok lainnya disajikan pada lampiran momen rencana balok.

6.2.2 Penulangan Lentur Balok dan Perhitungan Momen Nominal Aktual Balok

Sebagai contoh perhitungan penulangan lentur balok dan perhitungan momen nominal aktual balok pada balok 3A45X70.

Tulangan Tumpuan Balok

Mu = -512,4589 KN.m (negative)

Mu = 278.0960 KNm (positive)

$$\text{Rasio} = \rho/\rho' = \frac{512,4589}{278,0960} = 0,5427$$

$$\rho_{min} = \frac{1,4}{fy} = \frac{1,4}{390} = 0,0036$$

$$\rho_b = \frac{0,85.fc'}{fy}.\beta_1\left(\frac{600}{600+fy}\right)$$

$$\rho_b = \frac{0,85.30}{390}.0,85.\left(\frac{600}{600+390}\right) = 0,03367$$

$$\rho_{max} = 0,75.\rho_b = 0,75.0,03367 = 0,025$$

d' = Selimut beton + ϕ.tul. Sengkang + ½.ϕ tul.lentur

= 40 + 12 + ½.25 = 64.5 mm

d = h – d' = 700 – 64.5 = 635.5 mm

$$m = \frac{fy}{0,85.fc'} = \frac{390}{0,85.30} = 15,294$$

$$Rn = \frac{Mu}{b.d^2} = \frac{512,4589.10^6}{450.635,5^2} = 2,8198 \text{ N.mm}$$

$$\rho_{perlu} = \frac{1}{m}.\left(1 - \sqrt{1 - \frac{2\,m.Rn}{fy}}\right)$$

$$\rho_{perlu} = \frac{1}{15,294}.\left(1 - \sqrt{1 - \frac{2.15,294.2,8198}{390}}\right) = 0,00769$$

Syarat = $\rho_{min} < \rho_{perlu} < \rho_{maks}$

Memenuhi syarat, digunakan $\rho_{perlu} = 0,00769$

Luas tulangan tarik

$As = \rho b.d$

$As = 0,00769.450.635,5 = 2209,53$ mm²

Jumlah tulangan = n = $As/\varphi + 1 = 2209,53/490,87 + 1 = 5,05 \approx 6$ buah

Luas tulangan tekan

$As' = (\rho/\rho^1).As = (0,6).2209,53 = 1325,718$

Jumlah tulangan = n = $As'/\varphi + 1 = 1325,718/490,87 = 2,7 \approx 3$ buah

Digunakan tulangan As = 6D-25 = 2945,220 mm²

As' = 3D-25 = 1472,610 mm²

Keseimbangan gaya

$(0,85.fc'.b.\beta_1).x^2 + (600.As' - As.fy).x - 600.d'.As' = 0$

$(0,85.30.450.0,85).x^2 + (600.1472,610 - 2945,220.390).x - 600.64,5.1472,610 = 0$

$9753,75.x^2 - 265069,8.x - 56990007 = 0$

x = 91,225 mm

$a = \beta_1.x = 0,85.91,225 = 77,541$ mm

$$fs' = \frac{x - d'}{x}.600 = \frac{91{,}225 - 64{,}5}{91{,}225}.600 = 175{,}775 < fy = 390$$

$$Cc = 0{,}85.fc'b.a = 0{,}85.30.450.77{,}541 = 889787{,}69 \text{ KN}$$

$$Cs = As'.fs' = 1472{,}610.175{,}775 = 258848{,}11 \text{ KN}$$

$$Mnak = Cc.\left(d - a/2\right) + Cs.(d - d')$$

$$Mnak = 889787{,}69.\left(635{,}5 - \frac{77{,}541}{2}\right) + 258848{,}11.(635{,}5 - 64{,}5)$$

$$= 678{,}765 \text{ KNm}$$

$\phi M_{nak} = 678{,}765 > Mn = 512{,}4589/0{,}8 = 640{,}574$ KNm –aman-

Dengan cara yang sama dapat dihitung penulangan lentur dan perhitungan momen nominal aktual seluruh balok, yang disajikan pada Tabel 6.5.

Tabel 6.5 Perhitungan Penulangan Lentur dan Perhitungan Momen Nominal Aktual Balok

	BALOK	Letak	Dimensi		Mu (kN.m)	p'/p	Mu (kN.m)	Rn kN	p	p pakai	As (mm2)	n tul	As' (mm2)	n tul	Letak Tul.	Digunakan Tulangan		X (mm)	a (mm)	fs' (Mpa)	Cs (N)	Cc (N)	M nak>Mu/0.8 (kN m)	
1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sloof	1B30X50	tump	b = 300	d' = 53	-30,6764	0,5	30,6764	0,511763	0,00133	0,00133	174,97	2	87,485	2	As	2 D-22	760,264	49,923	42,434	36,986	28118,91	324621,87	149,297 > 38,346	aman
					2,8196	1	2,81956	0,047038	0,00013	0,00013	17,05	2	17,05	2	As'	2 D-22	760,264							
		lap	h = 500	d = 447	17,6700	0,5	17,67	0,294781	0,00077	0,00077	101,3	2	50,65	2	As	2 D-22	760,264	49,923	42,434	-36,986	-28118,91	324621,87	127,140 > 22,087	aman
					-2,3519	1	2,35191	0,039236	0,00011	0,00011	14,43	2	14,43	2	As'	2 D-22	760,264							
	1C25X40	tump	b = 250	d' = 48	-5,0286	0,5	5,02859	0,162338	0,00042	0,00042	35,55	2	17,775	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 6,286	aman
					-0,5080	1	0,50801	0,0164	0,00005	0,00005	4,22	2	4,22	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	2,9450	0,5	2,945	0,095074	0,00025	0,00025	21,16	2	10,58	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 3,681	aman
					0,5495	1	0,54954	0,017741	0,00005	0,00005	4,22	2	4,22	2	As'	2 D-19	567,060							
Basement	2A45X70	tump	b = 450	d' = 64,5	-417,6711	0,6	417,671	2,298216	0,00619	0,00619	1778,55	4	1067,13	3	As	5 D-25	2454,350	80,306	68,260	118,095	173908,45	783288,05	570,348 > 522,089	aman
					237,0775	1	237,078	1,304508	0,00344	0,00344	986,08	3	986,08	3	As'	3 D-25	1472,610							
		lap	h = 700	d = 635,5	276,5771	0,6	276,577	1,521853	0,00403	0,00403	1157,92	3	694,752	2	As	3 D-25	1472,610	61,662	52,412	-27,619	-27114,36	601432,26	350,967 > 345,721	aman
					-148,1783	1	148,178	0,815344	0,00213	0,00213	610,57	2	610,57	2	As'	2 D-25	981,740							
	2B30X50	tump	b = 300	d' = 53	-225,3535	0,9	225,354	3,759482	0,01048	0,01048	1378,65	4	1240,79	4	As	5 D-22	1900,660	74,076	62,965	170,714	259575,19	481682,21	302,420 > 281,692	aman
					184,4020	1	184,402	3,076304	0,00844	0,00844	1106,49	3	1106,49	3	As'	4 D-22	1520,528							
		lap	h = 500	d = 447	143,2450	0,8	143,245	2,3897	0,00645	0,00645	848,5	3	678,8	2	As	3 D-22	1140,396	60,105	51,089	70,925	53922,03	390832,41	185,964 > 179,056	aman
					-102,9710	1	102,971	1,717824	0,00457	0,00457	599,13	2	599,13	2	As'	2 D-22	760,264							
	2C25X40	tump	b = 250	d' = 48	-83,4061	0,5	83,4061	2,692604	0,00732	0,00732	619,46	3	309,73	2	As	3 D-19	850,590	54,119	46,001	67,843	38470,91	293259,19	108,177 > 104,258	aman
					36,2661	1	36,2661	1,170782	0,00308	0,00308	259,49	2	259,49	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	29,8503	0,5	29,8503	0,963659	0,00252	0,00252	213,26	2	106,63	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 37,313	aman
					-10,9911	1	10,9911	0,354827	0,00092	0,00092	77,51	2	77,51	2	As'	2 D-19	567,060							
Lantai 1	3A45X70	tump	b = 450	d' = 64,5	-512,4589	0,6	512,459	2,819781	0,00769	0,00769	2209,53	5	1325,72	3	As	6 D-25	2945,220	91,225	77,541	175,775	258848,11	889787,69	678,765 > 640,574	aman
					278,0960	1	278,096	1,53021	0,00405	0,00405	1160,94	3	1160,94	3	As'	3 D-25	1472,610							
		lap	h = 700	d = 635,5	315,3784	0,6	315,378	1,735355	0,00462	0,00462	1327,45	3	796,47	2	As	4 D-25	1963,480	72,125	61,306	63,429	62271,01	703486,19	461,058 > 394,223	aman
					-183,8974	1	183,897	1,011887	0,00265	0,00265	759,63	2	759,63	2	As'	2 D-25	981,740							
	3B30X50	tump	b = 300	d' = 53	-124,2089	0,6	124,209	2,072127	0,00555	0,00555	730,11	2	438,066	2	As	3 D-22	1140,396	60,105	51,089	70,925	53922,03	390832,41	185,964 > 155,261	aman
					72,1490	1	72,149	1,203633	0,00317	0,00317	415,59	2	415,59	2	As'	2 D-22	760,264							
		lap	h = 500	d = 447	46,7119	0,5	46,7119	0,779276	0,00203	0,00203	267,05	2	133,525	2	As	2 D-22	760,264	49,923	42,434	-36,986	-28118,91	324621,87	127,140 > 58,390	aman
					-4,3410	1	4,34097	0,072419	0,00019	0,00019	24,91	2	24,91	2	As'	2 D-22	760,264							
	3CX25X40	tump	b = 250	d' = 48	-103,8677	0,5	103,868	3,353168	0,00926	0,00926	783,63	3	391,815	2	As	4 D-19	1134,120	65,119	55,351	157,732	89443,64	352863,16	141,633 > 129,835	aman
					45,6823	1	45,6823	1,474765	0,0039	0,0039	328,58	2	328,58	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	30,2396	0,5	30,2396	0,976226	0,00256	0,00256	216,64	2	108,32	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 37,799	aman
					-7,8726	1	7,87261	0,254152	0,00066	0,00066	55,61	2	55,61	2	As'	2 D-19	567,060							
	3CY25X40	tump	b = 250	d' = 48	-66,0337	0,8	66,0337	2,13177	0,00572	0,00572	484,06	2	387,248	2	As	3 D-19	850,590	54,119	46,001	67,843	38470,91	293259,19	108,177 > 82,542	aman
					50,2632	1	50,2632	1,62265	0,00431	0,00431	363,12	2	363,12	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	19,1832	0,5	19,1832	0,619292	0,00161	0,00161	136,25	2	68,125	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 23,979	aman
					-9,4281	1	9,42613	0,304304	0,00079	0,00079	66,56	2	66,56	2	As'	2 D-19	567,060							
Lantai 2	4A45X70	tump	b = 450	d' = 64,5	-555,2698	0,6	555,27	3,055346	0,00837	0,00837	2404,92	5	1442,95	3	As	6 D-25	2945,220	91,225	77,541	175,775	258848,11	889787,69	678,765 > 653,259	aman
					295,0110	1	295,011	1,623284	0,00431	0,00431	1235,47	3	1235,47	3	As'	3 D-25	1472,610							
		lap	h = 700	d = 635,5	322,9921	0,7	322,992	1,777249	0,00473	0,00473	1359,05	3	951,335	2	As	4 D-25	1963,480	72,125	61,306	63,429	62271,01	703486,19	461,058 > 403,740	aman
					-211,0533	1	211,053	1,161311	0,00305	0,00305	874,29	2	874,29	2	As'	2 D-25	981,740							
	4B30X50	tump	b = 300	d' = 53	-104,5383	0,8	104,538	1,74397	0,00464	0,00464	610,4	2	488,32	2	As	3 D-22	1140,396	60,105	51,089	70,925	53922,03	390832,41	185,964 > 130,673	aman
					79,3250	1	79,325	1,323347	0,00349	0,00349	457,54	2	457,54	2	As'	2 D-22	760,264							
		lap	h = 500	d = 447	47,2631	1,1	47,2631	0,788471	0,00206	0,00206	271	2	298,1	2	As	2 D-22	760,264	49,923	42,434	-36,986	-28118,91	324621,87	127,140 > 59,079	aman
					-49,0917	0,9628	49,0917	0,818978	0,00214	0,00214	280,56	2	270,109	2	As'	2 D-22	760,264							
	4BK30X50	tump	b = 300	d' = 53	-191,6297	0,5	191,63	3,196881	0,00879	0,00879	1156,33	4	578,165	2	As	4 D-22	1520,528	72,400	61,540	160,771	122228,06	470777,86	244,110 > 239,537	aman
			h = 500	d = 447	60,3475	1	60,3475	1,006753	0,00264	0,00264	346,11	2	346,11	2	As'	2 D-22	760,264							
	4CX25X40	tump	b = 250	d' = 48	-91,3918	0,5	91,3918	2,950408	0,00807	0,00807	682,93	3	341,465	2	As	3 D-19	850,590	54,119	46,001	67,843	38470,91	293259,19	108,177 > 107,520	aman
					3,3472	1	3,34719	0,108058	0,00028	0,00028	23,59	2	23,59	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	32,4494	0,5	32,4494	1,047567	0,00275	0,00275	232,72	2	116,36	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 40,562	aman
					-9,8410	1	9,84095	0,317696	0,00082	0,00082	69,09	2	69,09	2	As'	2 D-19	567,060							

Tabel 6.5 Lanjutan

	BALOK	Letak	Dimensi		Mu (kN.m)	p'/p	Mu (kN.m)	Rn kN	p	p pakai	As (mm2)	n tul	As' (mm2)	n tul	Letak Tul.	Digunakan Tulangan		X (mm)	a (mm)	fs' (Mpa)	Cs (N)	Cc (N)	M nak>Mu/0.8 (kN m)	
1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Lantai 2	4D20X50	tump	b = 200	d' = 48	-55,8152	0,5	55,8152	1,365984	0,00361	0,00361	316,6	2	158,3	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 69,769	aman
					13,0037	1	13,0037	0,318244	0,00083	0,00083	72,55	2	72,55	2	As'	2 D-19	567,060							
		lap	h = 500	d = 452	37,5157	0,7	37,5157	0,918135	0,0024	0,0024	210,48	2	147,336	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 46,895	aman
					-22,8227	1	22,8227	0,558547	0,00145	0,00145	126,73	2	126,73	2	As'	2 D-19	567,060							
	4F20X30	tump	b = 200	d' = 48	-2,0201	0,5	2,02005	0,159049	0,00041	0,00041	19,56	2	9,78	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	50,892 > 2,525	aman
					0,6814	1	0,68145	0,053654	0,00014	0,00014	6,64	2	6,64	2	As'	2 D-19	567,060							
		lap	h = 300	d = 252	1,2286	0,5	1,22858	0,096733	0,00025	0,00025	11,93	2	5,965	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	50,892 > 1,536	aman
					-0,1722	1	0,17218	0,013556	0,00004	0,00004	1,9	2	1,9	2	As'	2 D-19	567,060							
Lantai 3	5A45X70	tump	b = 450	d' = 64,5	-507,8136	0,6	507,814	2,794221	0,00761	0,00761	2186,55	5	1311,93	3	As	6 D-25	2945,220	91,225	77,541	175,775	258848,11	889787,69	678,765 > 634,767	aman
					274,8410	1	274,841	1,5123	0,00401	0,00401	1149,47	3	1149,47	3	As'	3 D-25	1472,610							
		lap	h = 700	d = 635,5	318,2041	0,6	318,204	1,750903	0,00466	0,00466	1338,94	3	803,364	2	As	4 D-25	1963,480	72,125	61,306	63,429	62271,01	703486,19	461,058 > 397,755	aman
					-176,9952	1	176,995	0,973908	0,00255	0,00255	730,96	2	730,96	2	As'	2 D-25	981,740							
	5B30X50	tump	b = 300	d' = 53	-221,9687	1	221,969	3,703015	0,01031	0,01031	1356,29	4	1356,29	4	As	5 D-22	1900,660	74,076	62,965	170,714	259575,19	481682,21	302,420 > 277,461	aman
					212,9938	1	212,994	3,553289	0,00986	0,00986	1292,65	4	1292,65	4	As'	4 D-22	1520,528							
		lap	h = 500	d = 447	87,8975	1,9	87,8975	1,466358	0,00388	0,00388	510,42	2	969,798	3	As	3 D-22	1140,396	58,502	49,726	56,426	64347,48	380406,96	185,937 > 109,872	aman
					-158,4380	0,5548	158,438	2,643157	0,00718	0,00718	941,3	3	522,21	2	As'	3 D-22	1140,396							
	5BK30X50	tump	b = 300	d' = 53	-190,9231	0,5	190,923	3,185093	0,00876	0,00876	1152,38	4	576,19	2	As	4 D-22	1520,528	72,400	61,540	160,771	122228,06	470777,86	244,110 > 238,654	aman
			h = 500	d = 447	43,3063	1	43,3063	0,722462	0,00188	0,00188	246,47	2	246,47	2	As'	2 D-22	760,264							
	5C25X40	tump	b = 250	d' = 48	-72,3686	0,5	72,3686	2,336278	0,0063	0,0063	533,14	2	266,57	2	As	3 D-19	850,590	54,119	46,001	67,843	38470,91	293259,19	108,177 > 90,461	aman
					-3,4614	1	3,46142	0,111745	0,00029	0,00029	24,44	2	24,44	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	30,9267	0,5	30,9267	0,998408	0,00262	0,00262	221,72	2	110,86	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 38,658	aman
					6,9592	1	6,95921	0,224665	0,00058	0,00058	48,87	2	48,87	2	As'	2 D-19	567,060							
	5D20X50	tump	b = 200	d' = 48	-67,4250	0,5	67,425	1,650115	0,00438	0,00438	384,13	2	192,065	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 84,281	aman
					27,5221	1	27,5221	0,673556	0,00176	0,00176	153,83	2	153,83	2	As'	2 D-19	567,060							
		lap	h = 500	d = 452	44,1428	0,7	44,1428	1,080323	0,00284	0,00284	249,07	2	174,349	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 55,179	aman
					-26,6060	1	26,606	0,651137	0,0017	0,0017	148,58	2	148,58	2	As'	2 D-19	567,060							
	5F20X50	tump	b = 200	d' = 48	-54,5633	0,8	54,5633	4,296052	0,01215	0,01215	579,56	3	463,648	2	As	3 D-19	850,590	60,405	51,344	123,220	69873,31	261856,79	73,520 > 68,204	aman
					41,7443	1	41,7443	3,286748	0,00906	0,00906	429,45	2	429,45	2	As'	2 D-19	567,060							
		lap	h = 300	d = 252	26,0062	0,5	26,0062	2,0476	0,00548	0,00548	261,4	2	130,7	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	50,892 > 32,508	aman
					0,0239	1	0,02391	0,001883	0,00001	0,00001	0,48	2	0,48	2	As'	2 D-19	567,060							
Lanta 4	6A45X70	tump	b = 450	d' = 64,5	-426,3006	0,7	426,301	2,345699	0,00633	0,00633	1818,77	4	1273,14	3	As	5 D-25	2454,350	80,306	68,260	118,095	173908,45	783288,05	570,348 > 532,876	aman
					279,3586	1	279,359	1,537158	0,00407	0,00407	1166,67	3	1166,67	3	As'	3 D-25	1472,610							
		lap	h = 700	d = 635,5	315,7425	0,6	315,743	1,737359	0,00462	0,00462	1327,45	3	796,47	2	As	4 D-25	1963,480	72,125	61,306	63,429	62271,01	703486,19	461,058 > 394,678	aman
					-158,4600	1	158,46	0,871919	0,00228	0,00228	653,57	2	653,57	2	As'	2 D-25	981,740							
	6B30X50	tump	b = 300	d' = 53	-72,4583	0,8	72,4583	1,208793	0,00318	0,00318	418,33	2	334,664	2	As	2 D-22	760,264	49,923	42,434	-36,986	-28118,91	324621,87	127,140 > 90,573	aman
					54,0566	1	54,0566	0,901804	0,00236	0,00236	309,4	2	309,4	2	As'	2 D-22	760,264							
		lap	h = 500	d = 447	44,1118	0,7	44,1118	0,7359	0,00192	0,00192	252,58	2	176,806	2	As	2 D-22	760,264	49,923	42,434	-36,986	-28118,91	324621,87	127,140 > 55,140	aman
					-29,9598	1	29,9598	0,499808	0,0013	0,0013	170,43	2	170,43	2	As'	2 D-22	760,264							
	6BK30X50	tump	b = 300	d' = 53	-189,5029	0,5	189,503	3,1614	0,00869	0,00869	1143,17	4	571,585	2	As	4 D-22	1520,528	72,400	61,540	160,771	122228,06	470777,86	244,110 > 236,879	aman
			h = 500	d = 447	22,5878	1	22,5878	0,376823	0,00098	0,00098	128,48	2	128,48	2	As'	2 D-22	760,264							
	6C25X40	tump	b = 250	d' = 48	-66,2277	1	66,2277	2,138033	0,00574	0,00574	485,75	2	485,75	2	As	3 D-19	850,590	54,119	46,001	67,843	38470,91	293259,19	108,177 > 82,785	aman
					62,5207	1	62,5207	2,018358	0,0054	0,0054	454,95	2	454,95	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	35,0901	0,5	35,0901	1,132815	0,00298	0,00298	252,19	2	126,095	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 43,863	aman
					0,0999	1	0,09994	0,003226	0,00001	0,00001	0,85	2	0,85	2	As'	2 D-19	567,060							
	6CY25X40	tump	b = 250	d' = 48	-65,0138	0,5	65,0138	2,098843	0,00563	0,00563	476,44	2	238,22	2	As	3 D-19	850,590	54,119	46,001	67,843	38470,91	293259,19	108,177 > 81,267	aman
					17,3046	1	17,3046	0,558647	0,00145	0,00145	122,17	2	122,17	2	As'	2 D-19	567,060							
		lap	h = 400	d = 352	33,2168	1,4	33,2168	1,072341	0,00281	0,00281	237,8	2	332,92	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 41,521	aman
					-43,8082	0,7582	43,8082	1,414264	0,00374	0,00374	315,1	2	238,919	2	As'	2 D-19	567,060							

Tabel 6.5 Lanjutan

	BALOK	Letak	Dimensi		Mu (kN.m)	ρ'/ρ	Mu (kN.m)	Rn kN	ρ	ρ pakai	As (mm2)	n tul	As' (mm2)	n tul	Letak Tul.	Digunakan Tulangan		X (mm)	a (mm)	fs' (Mpa)	Cs (N)	Cc (N)	Mnak>Mu/0.8 (kN m)	
1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Lanta 4	6D20X50	tump	b = 200	d' = 48	-56,7453	0,5	56,7453	1,388748	0,00367	0,00367	321,86	2	160,93	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 70,932	*aman*
					7,0421	1	7,0421	0,172344	0,00045	0,00045	39,33	2	39,33	2	As'	2 D-19	567,060							
		lap	h = 500	d = 452	28,8298	0,5	28,8298	0,705561	0,00184	0,00184	161,37	2	80,685	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 36,037	*aman*
					-11,1552	1	11,1552	0,273004	0,00071	0,00071	62,06	2	62,06	2	As'	2 D-19	567,060							
	7CY25X40	tump	b = 250	d' = 48	-107,2687	0,8	107,269	3,46296	0,00959	0,00959	811,56	3	649,248	3	As	4 D-19	1134,120	61,250	52,063	129,799	110405,98	331900,82	141,753 > 134,086	*aman*
					78,3111	1	78,3111	2,528121	0,00685	0,00685	577,12	3	577,12	3	As'	3 D-19	850,590							
		lap	h = 400	d = 352	44,5433	0,8	44,5433	1,437993	0,0038	0,0038	321,58	2	257,264	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 55,679	*aman*
					-32,7253	1	32,7253	1,056473	0,00277	0,00277	233,38	2	233,38	2	As'	2 D-19	567,060							
Atap	8B30X50	tump	b = 300	d' = 53	-107,2687	0,8	107,269	1,78952	0,00477	0,00477	627,5	2	502	2	As	3 D-22	1140,396	60,105	51,089	70,925	53922,03	390832,41	185,964 > 134,086	*aman*
					78,3111	1	78,3111	1,306432	0,00345	0,00345	452,3	2	452,3	2	As'	2 D-22	760,264							
		lap	h = 500	d = 447	48,9295	1,8	48,9295	0,816272	0,00213	0,00213	280,21	2	504,378	2	As	2 D-22	760,264	49,923	42,434	-36,986	-28118,91	324621,87	127,140 > 61,162	*aman*
					-84,6777	0,5778	84,6777	1,412643	0,00373	0,00373	489,01	2	282,566	2	As'	2 D-22	760,264							
	8CY25X40	tump	b = 250	d' = 48	-149,6587	0,5	149,659	4,831439	0,01386	0,01386	1172,91	5	586,455	3	As	6 D-19	1701,180	82,832	70,408	252,310	214612,25	448847,95	207,435 > 187,073	*aman*
					61,5213	1	61,5213	1,986095	0,00531	0,00531	447,37	2	447,37	2	As'	3 D-19	850,590							
		lap	h = 400	d = 352	53,3973	0,5	53,3973	1,723829	0,00459	0,00459	388,43	2	194,215	2	As	2 D-19	567,060	44,999	38,249	-40,008	-22687,16	243840,56	74,272 > 66,747	*aman*
					-5,1816	1	5,18162	0,167279	0,00044	0,00044	37,07	2	37,07	2	As'	2 D-19	567,060							
	8D20X50	tump	b = 200	d' = 48	-67,0835	0,8	67,0835	1,641756	0,00436	0,00436	382,38	2	305,904	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 83,854	*aman*
					50,8854	1	50,8854	1,245335	0,00328	0,00328	286,68	2	286,68	2	As'	2 D-19	567,060							
		lap	h = 500	d = 452	26,3648	0,6	26,3648	0,645234	0,00168	0,00168	147,34	2	88,404	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	95,123 > 32,956	*aman*
					-13,5659	1	13,5659	0,332002	0,00086	0,00086	75,17	2	75,17	2	As'	2 D-19	567,060							
	8F20X30	tump	b = 200	d' = 48	-53,4328	1	53,4328	4,20704	0,01187	0,01187	566,2	2	566,2	2	As	3 D-19	850,590	60,405	51,344	123,220	69873,31	261856,79	73,520 > 66,791	*aman*
					50,3385	1	50,3385	3,96341	0,01111	0,01111	526,62	2	526,62	2	As'	2 D-19	567,060							
		lap	h = 300	d = 252	11,3479	0,5	11,3479	0,893482	0,00234	0,00234	111,62	2	55,81	2	As	2 D-19	567,060	49,161	41,787	14,176	8038,37	213115,03	50,892 > 14,185	*aman*
					-3,9001	1	3,90009	0,307074	0,0008	0,0008	37,92	2	37,92	2	As'	2 D-19	567,060							

Keterangan **Tabel 6.5** Perhitungan Penulangan Lentur dan Perhitungan Momen Nominal Aktual Balok

1. Letak balok yang ditinjau
2. Balok yang ditinjau
3. Letak yang ditinjau
4. Ukuran penampang yang digunakan
5. d' = Tebal selimut beton + Ø tul.sengkang + 1/2.Øtul. Pokok
   d = h - d' (tinggi efektif balok)
6. Momen ultimid balok dari SAP 2000
7. Perbandingan ρ'/ρ
8. Rn = Mu/(b.d²) .
9. ρ = 1/m. √(1 -2 .m .Rn/fy)
10. ρpakai , syarat ρ < ρmaks maka digunakan ρmaks
    dengan ρmaks = 0,75 .0,85 .fc'/fy .β1.[600/(600 + fy)]
11. As = ρ .b .d
12. n. tul = As/Ø + 1
    Jumlah tulangan As
13. As' = ρ'/ρ.As
14. n. tul = As/Ø + 1
15. Letak tulangan
16. Tulangan yang dipasang
17. Luas tulangan yang dipasang
18. x = letak garis netral
    (0,85. fc' .b .β1).x² + (600 .As' - As .fy) .x - 600 .d' .As' = 0 ,jika εs ≤ εy
    x = a/β1 dengan a = [As. Fy - As' .(fy - 0,85. fc')]/(0,85 .fc' .b) ,jika εs > εy
    dengan εs = [(d - x)/x].εcu
19. a = x . β1 (tinggi balok tekan)
20. fs' = (x - d')/x .600 (tegangan leleh tulangan)
21. Cs = As' .(fy - 0,85 .fc') (tegangan tarik beton)
22. Cc = 0,85 .fc' .b .a (Tegangan tarik tulangan)
23. Kontrol Mnak > Mu/0,8
    Mnak = Cc .(d - a/2) + Cs .(d -d')
24. Jika Mnak > Mu/0,8 maka aman
    Jika Mnak < Mu/0,8 maka tidak aman

6.2.3 Gaya Geser Rencana Balok

Gaya geser rencana balok dapat dihitung dengan rumus (Kusuma dan Andriono, 1997)

$$V_{u,b} = 1{,}05.(V_{D,b} + V_{L,b)} + 0{,}7.1{,}25.\left[\frac{M_{nak,b} + M_{nak,b'}}{l_n}\right]$$

tetapi gaya geser terpakai balok tidak boleh lebih besar dari gaya geser maksimum,

$$V_{u,bmaks} = 1{,}05.\left(V_{D,b} + V_{L,b} + 4/k.V_{E,b}\right)$$

Sebagi contoh perhitungan adalah gaya geser rencana balok 1B30X50

Deketahui

$V_{D,b} = 16874{,}85$ N, $V_{L,b} = 0$, $V_{E,b} = 0$

$M_{nak^+} = 127139586$ N mm

$M_{nak^-} = 127139586$ N mm

$l_n = 9550$ mm

$$V_{u,b} = 1{,}05.(16874{,}85 + 0) + 0{,}7.0{,}25.\left[\frac{127139586 + 127139586}{9550}\right] = 5579{,}237\,\text{N}$$

$$V_{u,bmaks} = 1{,}05.\left(16874{,}85 + 0 + 4/1.0\right) = 17718{,}593\,\text{N}$$

dipilih sebagai gaya geser balok terpakai adalah

$V_{u,b} = 17718{,}593$ N

Dengan cara yang sama didapat gaya geser rencana dari semua balok, dusajikan pada Tabel 6.6.

Tabel 6,6 Gaya Geser Rencana Balok

BALOK	Ln (mm)	LOC	VD (N)	VL (N)	VE (N)	M nak + (N mm)	M nak - (N mm)	V ren (N)	V maks (N)	V pakai (N)
1	2	3	4	5	6	7	8	9	10	11
1B30X50	9550	225	-16874,85	0	0	149297290,4	127139585,6	7609,394	-17718,593	7609,394
		5000	0	0	0	149297290,4	127139585,6	25327,986	0,000	0,000
		9775	16874,85	0	0	149297290,4	127139585,6	43046,579	17718,593	17718,593
1C25X40	4750	125	-5595,5	0	0	74271590,73	74271590,73	21487,943	-5875,275	-5875,275
		2500	0	0	0	74271590,73	74271590,73	27363,218	0,000	0,000
		4875	5595,5	0	0	74271590,73	74271590,73	33238,493	5875,275	5875,275
2A45X70	2750	0	87215,66	34665,18	33847,65	570347504,3	240679618,6	386028,967	270135,012	270135,012
		1375	105738,83	39391,74	33847,65	570347504,3	240679618,6	410441,193	294547,229	294547,229
		2750	127149,51	45758,93	33847,65	570347504,3	240679618,6	439607,947	323713,992	323713,992
2B30X50	4775	0	-7270,16	-59,16	-18691,79	302420013,8	127184637,1	71027,579	-86201,304	71027,579
		2387,5	1167,26	-59,16	-18691,79	302420013,8	127184637,1	79886,870	-77342,013	-77342,013
		4775	9604,69	-59,16	-18691,79	302420013,8	127184637,1	88746,172	-68482,712	-68482,712
2C25X40	4500	0	-20363,92	-9868,6	1815,97	108177218,8	74271590,73	3732,011	-24117,072	3732,011
		2250	5837,08	2006,4	1815,97	108177218,8	74271590,73	43711,811	15862,728	15862,728
		4500	32038,08	13881,4	1815,97	108177218,8	74271590,73	83691,611	55842,528	55842,528
3A45X70	2750	0	85934,3	34957,99	44096,12	678764651,4	240929105,8	419566,736	312140,609	312140,609
		1375	116488,72	39684,55	44096,12	678764651,4	240929105,8	456611,765	349185,638	349185,638
		2750	149930,64	46051,74	44096,12	678764651,4	240929105,8	498411,331	390985,203	390985,203
3B30X50	4775	0	-16874,4	-7629,77	8264,71	185963708,7	127139585,6	31645,571	8982,403	8982,403
		2387,5	14855,52	5453,36	8264,71	185963708,7	127139585,6	78699,273	56036,106	56036,106
		4775	49827,7	20357,62	8264,71	185963708,7	127139585,6	131069,535	108406,368	108406,368
3CX25X40	2250	0	-3107,6	-2706,77	1558,65	141633019,7	74271590,73	77857,816	441,242	441,242
		1125	24717,9	6004,17	1558,65	141633019,7	74271590,73	116221,078	38804,504	38804,504
		2250	42780,9	9168,23	1558,65	141633019,7	74271590,73	138509,491	61092,917	61092,917
3CY25X40	2350	250	-5521,16	-3735,75	26215,94	108177218,8	74271590,73	58213,312	100387,193	58213,312
		1425	5884,89	1172,06	26215,94	108177218,8	74271590,73	75342,865	117516,746	75342,865
		2600	16278,94	5504,87	26215,94	108177218,8	74271590,73	90806,068	132979,949	90806,068
4A45X70	2750	0	110012,9	37483,01	39980,93	678764651,4	240929105,8	447500,537	322790,612	322790,612
		1375	140567,32	42209,57	39980,93	678764651,4	240929105,8	484545,566	359835,641	359835,641
		2750	174009,25	48576,76	39980,93	678764651,4	240929105,8	526345,142	401635,217	401635,217
4B30X50	4550	225	-49442,97	-12335,54	331,35	185963708,7	127139585,6	-4655,264	-63475,766	-4655,264
		2500	869,57	373,56	331,35	185963708,7	127139585,6	61517,458	2696,957	2696,957
		4775	51108,54	13040,87	331,35	185963708,7	127139585,6	127569,052	68748,551	68748,551
4BK30X50	775	0	18165,86	-802,08	-6289,13	244109820,9	0	293839,831	-8182,377	-8182,377
		387,5	19535,28	-802,08	-6289,13	244109820,9	0	295277,722	-6744,486	-6744,486
		775	20904,71	-802,08	-6289,13	244109820,9	0	296715,624	-5306,585	-5306,585
4CX25X40	4500	0	-14173,5	-9515,6	1923,18	108177218,8	74271590,73	10602,602	-16796,199	10602,602
		2250	12027,5	2359,4	1923,18	108177218,8	74271590,73	50582,402	23183,601	23183,601
		4500	38228,5	14234,41	1923,18	108177218,8	74271590,73	90562,213	63163,412	63163,412
4D20X50	4500	0	-45045,87	-135,59	-113,61	95122748,36	95122748,36	-10448,353	-47917,695	-10448,353
		2250	-369,87	-135,59	-113,61	95122748,36	95122748,36	36461,447	-1007,895	-1007,895
		4500	44306,12	-135,59	-113,61	95122748,36	95122748,36	83371,236	45901,895	45901,895
4F20X30	3841,5	0	-2682,34	13,41	100,09	50892068,36	50892068,36	20381,688	-2381,999	-2381,999
		1920,7	32,82	13,41	100,09	50892068,36	50892068,36	23232,606	468,920	468,920
		3841,5	2747,97	13,41	100,09	50892068,36	50892068,36	26083,513	3319,827	3319,827
5A45X70	2750	0	107537,82	37741,95	31240,31	678764651,4	240929105,8	445173,590	283753,061	283753,061
		1375	138092,24	42468,52	31240,31	678764651,4	240929105,8	482218,630	320798,100	320798,100
		2750	171534,16	48835,7	31240,31	678764651,4	240929105,8	524018,185	362597,655	362597,655
5B30X50	4250	250	-113188,1	-15313,22	-420,95	302420013,8	185936683,9	-34382,328	-136694,345	-34382,328
		2375	-61071,29	-10493,79	-420,95	302420013,8	185936683,9	25400,692	-76911,324	25400,692
		4500	-9985,76	-6260,32	-420,95	302420013,8	185936683,9	83485,642	-18826,374	-18826,374
5BK30X50	775	0	15877,4	-3114,12	-30178,2	244109820,9	0	289009,306	-113346,996	-113346,996
		387,5	17246,82	-3114,12	-30178,2	244109820,9	0	290447,197	-111909,105	-111909,105
		775	18616,25	-3114,12	-30178,2	244109820,9	0	291885,099	-110471,204	-110471,204
5C25X40	4500	0	-20413,91	-9612,66	1881,85	108177218,8	74271590,73	3948,259	-23624,129	3948,259
		2250	5787,09	2262,34	1881,85	108177218,8	74271590,73	43928,059	16355,672	16355,672
		4500	31988,09	14137,34	1881,85	108177218,8	74271590,73	83907,859	56335,472	56335,472
5D20X50	7000	0	-39777,62	-0,9034	30,3	95122748,36	95122748,36	-17986,762	-41640,190	-17986,762
		3500	-31,62	-0,9034	30,3	95122748,36	95122748,36	23746,538	93,110	93,110
		7000	39714,38	-0,9034	30,3	95122748,36	95122748,36	65479,838	41826,410	41826,410
5F20X30	2125	0	16370,98	6424,81	-550,37	73519617,45	50892068,36	75163,921	21624,026	21624,026
		1062,5	22840,12	9247,11	-550,37	73519617,45	50892068,36	84919,933	31380,038	31380,038
		2125	29309,25	12069,4	-550,37	73519617,45	50892068,36	94675,924	41136,029	41136,029
6A45X70	2750	0	116805,89	37109,59	18738,04	570347504,3	240929105,8	419744,721	240311,022	240311,022
		1375	135329,07	41836,16	18738,04	570347504,3	240929105,8	444156,958	264723,260	264723,260
		2750	156739,74	48203,34	18738,04	570347504,3	240929105,8	473323,701	293890,002	293890,002
6B30X50	4550	225	-43727,51	-11832,35	716,32	127139585,6	127139585,6	-9438,012	-55329,309	-9438,012
		2500	2660,65	876,76	716,32	127139585,6	127139585,6	52614,121	6722,825	6722,825
		4775	48975,25	13544,06	716,32	127139585,6	127139585,6	114545,116	68653,820	68653,820
6BK30X50	850	0	8945,54	1065,44	-2968,39	244109820,9	0	261801,051	-1955,709	-1955,709
		425	10447,49	1065,44	-2968,39	244109820,9	0	263378,098	-378,661	-378,661
		850	11949,44	1065,44	-2968,39	244109820,9	0	264955,146	1198,386	1198,386

Tabel 6,6 Lanjutan

BALOK	Ln (mm)	LOC	VD (N)	VL (N)	VE (N)	M nak + (N mm)	M nak - (N mm)	V ren (N)	V maks (N)	V pakai (N)
1	2	3	4	5	6	7	8	9	10	11
6C25X40	2250	0	20530,78	33,62	-25,48	108177218,8	74271590,73	92544,935	21485,604	21485,604
		1125	38512,53	8744,56	-25,48	108177218,8	74271590,73	120572,259	49512,929	49512,929
		2250	46731,78	11908,63	-25,48	108177218,8	74271590,73	132524,745	61465,415	61465,415
6CY25X40	750	0	45265,95	399,12	5519,37	108177218,8	74271590,73	260805,268	71129,678	71129,678
		375	46149,45	399,12	5519,37	108177218,8	74271590,73	261732,943	72057,353	72057,353
		750	47032,95	399,12	5519,37	108177218,8	74271590,73	262660,618	72985,028	72985,028
6D20X50	2375	0	6112,43	2283,49	3047,27	95122748,36	95122748,36	78906,162	21614,250	21614,250
		1187,5	12012,53	4046,44	3047,27	95122748,36	95122748,36	86952,365	29660,453	29660,453
		2375	21917,31	8085,11	3047,27	95122748,36	95122748,36	101592,987	44301,075	44301,075
7CY25X40	2250	0	35927,3	8119,51	6302,69	141752651,3	74271590,73	130258,578	72720,449	72720,449
		1125	48200,48	9701,54	6302,69	141752651,3	74271590,73	144806,548	87268,419	87268,419
		2250	63285,05	11947,64	6302,69	141752651,3	74271590,73	163003,752	105465,623	105465,623
8B30X50	700	150	-123886,1	-5263,53	-11609,73	185963708,7	127139585,6	255772,017	-184367,967	-184367,967
		500	-123666,2	-5247,03	-11609,73	185963708,7	127139585,6	256020,216	-184119,768	-184119,768
		850	-123438,5	-5227,53	-11609,73	185963708,7	127139585,6	256279,807	-183860,177	-183860,177
8CY25X40	700	150	-18226,55	-3368,06	-4872,96	207435466,6	74271590,73	329459,481	-43140,773	-43140,773
		500	-17401,95	-3368,06	-4872,96	207435466,6	74271590,73	330325,311	-42274,943	-42274,943
		850	-16577,35	-3368,06	-4872,96	207435466,6	74271590,73	331191,141	-41409,113	-41409,113
8D20X50	4375	0	3740,36	731,99	3768,11	95122748,36	95122748,36	42745,067	20522,030	20522,030
		2187,5	15371,1	3206,99	3768,11	95122748,36	95122748,36	57556,094	35333,057	35333,057
		4375	27517,07	5878,86	3768,11	95122748,36	95122748,36	73114,826	50891,789	50891,789
8F20X30	850	0	-39575	-5113,79	-6247,35	73519617,45	50892068,36	81147,624	-73162,100	-73162,100
		425	-38123,48	-4788,66	-6247,35	73519617,45	50892068,36	83013,106	-71296,617	-71296,617
		850	-36124,42	-4254,29	-6247,35	73519617,45	50892068,36	85673,208	-68636,516	-68636,516

Keterangan **Tabel 6,6** Gaya Geser Rencana Balok

1. Balok yang ditinjau
2. Bentang bersih balok
3. Lokasi yang ditinjau
4. VD = Gaya geser balok akibat beban mati
5. VL = Gaya geser balok akibat beban hidup
6. VE = Gaya geser balok akibat beban gempa
7. M Nak+ = Momen nominal aktual balok positif (Lampiran Momen Rencana Balok)
8. M nak- = Momen nominal aktual balok negatif (Lampiran Momen Rencana Balok)
9. Vren = 1,05 .(VD + VL) + 0,7 .1,25 .[(Mnak + Mnak -)/ln]
   (Gaya geser rencana balok)
10. Vmaks = 1,05 .(VD + VL + 4/k .VE)
    (Gaya geser maksimum balok)
11. Vterpakai pilih yang terkecil

6.2.4 Penulangan Geser Balok

Sebagai contoh perhitungan geser balok ditinjau pada balok 1B30X50, sebagai berikut ini. (Kusuma dan Andriomo, 1997)

a. Sepanjang daerah sendi plastis

Daerah sendi plastis diambil dari ujung muka kolom kearah tengah bentang sesuai panjang penghentian tulangan desak (dipohusodo, 1996)

Jarak daerah sendi plastis = $0,3.ln = 0,3.9,550 = 2,865$ m ≈ 3 m

2 m > ($2.h = 2.0,5 = 1$ m) memnuhi syarat SKSNI 1991

Tulangan geser dalam daerah (0-d) dari muka kolom ke tengah bentang:

$V_{u,b,terpakai} = 17718,5925$ N

$V_s = V_{u,b}/\phi - V_c = 17718,5925/0,6 - 0 = 29530,99$ N

$A_v = \frac{1}{4}.\pi.d^2 = \frac{1}{4}.\pi.12^2 = 113,097$ mm^2

$S = A_v.fy.d/V_s = 2.113,097.240.447/29530,99 = 821.302$ mm

digunakan sengkang **2P12 – 250**

Kontrol kuat geser:

$V_{u,b} \le 0,6.(V_c + V_s)$

$17718,5925 \le 0,6.(0 + (2.113,097.240.447)/250.) = 58238,622$ -aman-

Tulanan geser dalam daerah (d – 1) dari muka kolom ke tengah bentang

$V_{u,b,terpakai} = 16059,910$ N

$V_s = V_{u,b}/\phi - V_c = 16059,910/0.6 - 0 = 26766,5$ N

$A_v = ¼.\pi.d^2 = ¼.\pi.12^2 = 113{,}097\ \text{mm}^2$

$S = A_v.fy.d/V_s = 2.113{,}097.240.447/26766{,}5 = 906.127\ \text{mm}$

digunakan sengkang **2P12 – 250**

Kontrol kuat geser:

$V_{u,b} \le 0{,}6.(V_c + V_s)$

$16059{,}910 \le 0{,}6.(0 + (2.113{,}097.240.447)/250.) = 58238{,}622$ -aman

b. Di luar daerah sendi plastis

$V_{u,b,terpakai} = 14007{,}893\ \text{KN}$

$V_c = 1/6.\sqrt{fc'}.b.d = 1/6.\sqrt{30}.300.447 = 122416\ \text{N}$

$V_s = V_{u,b}/\phi - V_c = 14007{,}893/0{,}6 - 122416 = -99069{,}5\ \text{N}$

$A_v = ¼.\pi.d^2 = ¼.\pi.12^2 = 113{,}097\ \text{mm}^2$

$S = A_v.fy.d/V_s = 1.113{,}097.240.447/99069{,}5 = 122{,}408\ \text{mm}$

digunakan sengkang **P12 – 250**

Kontrol kuat geser:

$V_{u,b} \le 0{,}6.(V_c + V_s)$

$14007{,}893 \le 0{,}6.(122416 + (1.113{,}097.240.447)/250) = 284913{,}641$ -aman-

Dengan cara yang sama didapat penulangan geser balok dari semua balok disajikan pada Tabel 6.7.

Tabel 6,7 Penulangan Gaya Geser Balok

BALOK	Ln (mm)	V u,b	d (mm)	b (mm)	Lok	SP (mm)	Jarak		Vu' (N)	Vc (N)	Vs (N)	S (mm)	S min (mm)	Tul Geser	Vs baru (N)	0,6.(Vs+Vc) ≥ Vu'
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16
1B30X50	9550	7609,394	447	300	Pada SP	1000	0-d	447	17718,593	0	29530,988	410,65106	111,75	P12 - 100	121269,312	aman
		0	447	300			d-Sp	1000	17245,4185	0	28742,364	421,91836	111,75	P12 - 100	121269,312	aman
		17718,5925	447	300	Luar SP		sisa	0	16660,038	122416	-93673,63	-129,4594	-	P12 - 250	48507,7248	aman
1C25X40	4750	-5875,275	352	250	Pada SP	800	0-d	352	5875,275	0	9792,125	975,23461	88	P12 - 85	112348,4612	aman
		0	352	250			d-Sp	800	5004,4974	0	8340,829	1144,9245	88	P12 - 85	112348,4612	aman
		5875,275	352	250	Luar SP		sisa	0	3896,235	80332,64	-73838,92	-89,8128	-	P12 - 250	26526,72	aman
2A45X70	2750	270135,012	636	450	Pada SP	825	0-d	636	323713,992	0	539523,32	127,92348	159	4P12 - 125	552141,6192	aman
		294547,2285	636	450			d-Sp	825	311322,635	0	518871,06	133,01513	159	4P12 - 125	552141,6192	aman
		323713,992	636	450	Luar SP		sisa	0	307640,298	261263,7	251470,17	137,22841	-	2P12 - 125	276070,8096	aman
2B30X50	4775	71027,57936	447	300	Pada SP	1000	0-d	447	71027,5794	0	118379,3	102,44132	111,75	P12 - 100	121269,312	aman
		-77342,013	447	300			d-Sp	1000	70789,3477	0	117982,25	102,78607	111,75	P12 - 100	121269,312	aman
		-68482,7115	447	300	Luar SP		sisa	0	70494,6227	122416	-4924,954	-2462,344	-	P12 - 250	48507,7248	aman
2C25X40	4500	3732,011402	352	250	Pada SP	800	0-d	352	55842,528	0	93070,88	102,60588	88	P12 - 85	112348,4612	aman
		15862,728	352	250			d-Sp	800	51766,3276	0	86277,213	110,6853	88	P12 - 85	112348,4612	aman
		55842,528	352	250	Luar SP		sisa	0	46578,4362	80332,64	-2701,915	-2454,437	-	P12 - 250	26526,72	aman
3A45X70	2750	312140,6085	636	450	Pada SP	825	0-d	636	390985,203	0	651642,01	105,91353	159	4P12 - 100	690177,024	aman
		349185,6375	636	450			d-Sp	825	372750,599	0	621251	111,09471	159	4P12 - 100	690177,024	aman
		390985,203	636	450	Luar SP		sisa	0	367331,825	261263,7	350956,05	147,49219	-	3P12 - 125	414106,2144	aman
3B30X50	4775	8982,4035	447	300	Pada SP	1000	0-d	447	108406,368	0	180677,28	134,23858	111,75	2P12 - 100	242538,624	aman
		56036,106	447	300			d-Sp	1000	99099,0356	0	165165,06	146,84621	111,75	2P12 - 100	242538,624	aman
		108406,368	447	300	Luar SP		sisa	0	87584,5953	122416	23558,334	514,76183	-	P12 - 250	48507,7248	aman
3CX25X40	2250	441,2415	352	250	Pada SP	675	0-d	352	61092,9165	0	101821,53	93,787821	88	P12 - 85	112348,4612	aman
		38804,5035	352	250			d-Sp	675	51604,2989	0	86007,165	111,03283	88	P12 - 85	112348,4612	aman
		61092,9165	352	250	Luar SP		sisa	0	42897,414	80332,64	-8836,952	-750,4488	-	P12 - 250	26526,72	aman
3CY25X40	2350	58213,31187	352	250	Pada SP	705	0-d	352	90806,0679	0	151343,45	63,098994	88	P12 - 60	159160,32	aman
		75342,86487	352	250			d-Sp	705	85924,0891	0	143206,82	66,684111	88	P12 - 65	146917,2185	aman
		90806,06787	352	250	Luar SP		sisa	0	81028,2411	80332,64	54714,427	121,20533	-	P12 - 100	66316,8	aman
4A45X70	2750	322790,6115	636	450	Pada SP	825	0-d	636	401635,217	0	669392,03	103,10506	159	4P12 - 100	690177,024	aman
		359835,6405	636	450			d-Sp	825	383400,61	0	639001,02	108,00875	159	4P12 - 100	690177,024	aman
		401635,2165	636	450	Luar SP		sisa	0	377981,835	261263,7	368706,07	140,39171	-	3P12 - 125	414106,2144	aman

Tabel 6,7 Lanjutan

BALOK	Ln (mm)	V u,b	d (mm)	b (mm)	Lok	SP (mm)	Jarak		Vu' (N)	Vc (N)	Vs (N)	S (mm)	S min (mm)	Tul Geser	Vs baru (N)	0,6.(Vs+Vc) ≥ Vu'
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16
4B30X50	4550	-4655,26351	447	300	Pada SP	1000	0-d	447	68748,5505	0	114580,92	105,83727	111,75	P12 - 100	121269,312	aman
		2696,9565	447	300			d-Sp	1000	61537,2308	0	102562,05	118,23994	111,75	P12 - 100	121269,312	aman
		68748,5505	447	300	Luar SP		sisa	0	52615,8441	122416	-19853,94	-610,8073	-	P12 - 250	48507,7248	aman
4BK30X50	775	-8182,377	447	300	Pada SP	232,5	0-d	447	8182,377	0	13637,295	889,24755	111,75	4P12 - 100	121269,312	aman
		-6744,486	447	300	Luar SP		0	0	6523,6941	122416	-111543,2	-108,7196	-	4P12 - 250	48507,7248	aman
		-5306,5845	447	300			sisa	0	0	0	0	0	-	0		
4CX25X40	4500	10602,6024	352	250	Pada SP	800	0-d	352	63163,4115	0	105272,35	181,42692	88	2P12 - 85	224696,9224	aman
		23183,601	352	250			d-Sp	800	59051,9882	0	98419,98	194,05855	88	2P12 - 85	224696,9224	aman
		63163,4115	352	250	Luar SP		sisa	0	53819,2677	80332,64	9366,1377	1019,5899	-	P12 - 250	38198,4768	aman
4D20X50	4500	-10448,3531	452	200	Pada SP	1000	0-d	452	45901,8945	0	76503,158	111,31148	113	P10 - 100	85156,8	aman
		-1007,895	452	200			d-Sp	1000	40241,8252	0	67069,709	126,9676	113	P10 - 100	85156,8	aman
		45901,8945	452	200	Luar SP		sisa	0	33379,6173	82523,53	-26890,84	-316,6759	-	P10 - 250	34062,72	aman
4F20X30	3841,5	-2381,9985	252	200	Pada SP	600	0-d	252	3319,827	0	5533,045	858,05917	63	P10 - 63	75360	aman
		468,9195	252	200			d-Sp	600	2945,78886	0	4909,6481	967,01024	63	P10 - 63	75360	aman
		3319,827	252	200	Luar SP		sisa	0	2429,26	46008,69	-41959,93	-113,148	-	P10 - 250	18990,72	aman
5A45X70	2750	283753,0605	636	450	Pada SP	825	0-d	636	362597,655	0	604329,43	114,20543	159	4P12 - 100	690177,024	aman
		320798,1	636	450			d-Sp	825	344363,051	0	573938,42	120,2528	159	4P12 - 100	690177,024	aman
		362597,655	636	450	Luar SP		sisa	0	338944,277	261263,7	303643,47	170,47387	-	3P12 - 150	345088,512	aman
5B30X50	4250	-34382,3285	447	300	Pada SP	1000	0-d	447	34382,3285	0	57303,881	211,62495	111,75	P12 - 100	121269,312	aman
		25400,692	447	300			d-Sp	1000	32746,2081	0	54577,014	222,19851	111,75	P12 - 100	121269,312	aman
		-18826,374	447	300	Luar SP		sisa	0	30722,1039	122416	-67838,98	-178,7605	-	P12 - 250	48507,7248	aman
5BK30X50	775	-113346,996	447	300	Pada SP	232,5	0-d	447	113346,996	0	188911,66	456,48826	111,75	4P16 - 100	862359,552	aman
		-111909,105	447	300	Luar SP		0	0	111688,313	122416	63731,197	338,27999	-	P16 - 250	86235,9552	aman
		-110471,204	447	300			sisa	0	0	0	0	0	-			
5C25X40	4500	3948,258902	352	250	Pada SP	800	0-d	352	56335,4715	0	93892,453	101,70806	88	P12 - 85	112348,4612	aman
		16355,6715	352	250			d-Sp	800	52237,6273	0	87062,712	109,68667	88	P12 - 85	112348,4612	aman
		56335,4715	352	250	Luar SP		sisa	0	47022,1893	80332,64	-1962,326	-3379,499	-	P12 - 250	26526,72	aman
5D20X50	7000	-17986,7625	452	200	Pada SP	1000	0-d	452	41826,4104	0	69710,684	122,15746	113	P10 - 100	85156,8	aman
		93,11043	452	200			d-Sp	1000	37964,1884	0	63273,647	134,58494	113	P10 - 100	85156,8	aman
		41826,41043	452	200	Luar SP		sisa	0	33281,6714	82523,53	-27054,08	-314,7651	-	P10 - 250	34062,72	aman

Tabel 6,7 Lanjutan

BALOK	Ln (mm)	V u,b	d (mm)	b (mm)	Lok	SP (mm)	Jarak		Vu' (N)	Vc (N)	Vs (N)	S (mm)	S min (mm)	Tul Geser	Vs baru (N)	0,6.(Vs+Vc) ≥ Vu'
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16
5F20X30	2125	21624,0255	252	200	Pada SP	600	0-d	252	41136,0285	0	68560,048	99,717831	63	P12 - 63	108518,4	aman
		31380,0375	252	200			d-Sp	600	38822,1345	0	64703,557	105,66126	63	P12 - 63	108518,4	aman
		41136,0285	252	200	Luar SP		sisa	0	35626,7571	46008,69	13369,234	355,11983	-	P12 - 200	23738,4	aman
6A45X70	2750	240311,022	636	450	Pada SP	825	0-d	636	293890,002	0	489816,67	140,90517	159	4P12 - 125	552141,6192	aman
		264723,2595	636	450			d-Sp	825	281498,645	0	469164,41	147,10771	159	4P12 - 125	552141,6192	aman
		293890,002	636	450	Luar SP		sisa	0	277816,308	261263,7	201763,52	256,55419	-	3P12 - 250	207053,1072	aman
6B30X50	4550	-9438,01237	447	300	Pada SP	1000	0-d	447	68653,8195	0	114423,03	211,96661	111,75	2P12 - 100	242538,624	aman
		6722,8245	447	300			d-Sp	1000	60981,9406	0	101636,57	238,63323	111,75	2P12 - 100	242538,624	aman
		68653,8195	447	300	Luar SP		sisa	0	51490,7795	122416	-36598,03	-331,3548	-	P12 - 250	48507,7248	aman
6BK30X50	850	-1955,709	447	300	Pada SP	255	0-d	447	1955,709	0	3259,515	26456,683	111,75	4P16 - 100	862359,552	aman
		-378,6615	447	300	Luar SP		0	0	297,0261	122416	-121920,9	-707,3104	-	4P16 - 250	344943,8208	aman
		1198,386	447	300			sisa	0	0	0	0	0	-			
6C25X40	2250	21485,604	352	250	Pada SP	675	0-d	352	61465,4145	0	102442,36	93,21944	88	P12 - 85	112348,4612	aman
		49512,9285	352	250			d-Sp	675	55210,7953	0	92017,992	103,77991	88	P12 - 85	112348,4612	aman
		61465,4145	352	250	Luar SP		sisa	0	49471,4714	80332,64	2119,8105	3128,4306	-	P12 - 200	33158,4	aman
6CY25X40	750	71129,6775	352	250	Pada SP	225	0-d	352	72985,0275	0	121641,71	157,01225	88	P12 - 85	224696,9224	aman
		72057,3525	352	250	Luar SP		0	0	72114,2499	80332,64	39857,775	239,59238	-	P12 - 200	47748,096	aman
		72985,0275	352	250			sisa	0	0	0	0	0	-			
6D20X50	2375	21614,25	452	200	Pada SP	712,5	0-d	452	44301,075	0	73835,125	115,33372	113	P10 - 100	85156,8	aman
		29660,4525	452	200			d-Sp	712,5	39983,414	0	66639,023	127,78819	113	P10 - 100	85156,8	aman
		44301,075	452	200	Luar SP		sisa	0	37495,0275	82523,53	-20031,82	-425,1077	-	P10 - 250	34062,72	aman
7CY25X40	2250	72720,4485	352	250	Pada SP	675	0-d	352	105465,623	0	175776,04	108,65667	88	2P12 - 85	224696,9224	aman
		87268,419	352	250			d-Sp	675	100342,822	0	167238,04	114,20391	88	2P12 - 85	224696,9224	aman
		105465,6225	352	250	Luar SP		sisa	0	95642,0703	80332,64	79070,809	167,74029	-	2P12 - 150	88422,4	aman
8B30X50	700	-184367,967	447	300	Pada SP	210	0-d	447	184367,967	0	307279,95	280,64297	111,75	4P16 - 100	862359,552	aman
		-184119,768	447	300	Luar SP		0	0	184043,706	122416	184323,52	233,92553	-	2P16 - 200	215589,888	aman
		-183860,177	447	300			sisa	0	0	0	0	0	-			
8CY25X40	700	-43140,7725	352	250	Pada SP	210	0-d	352	43140,7725	0	71901,288	944,46714	88	4P16 - 85	798922,3906	aman
		-42274,9425	352	250	Luar SP		0	0	42269,9949	80332,64	-9882,65	-1717,869	-	P16 - 250	67908,4032	aman
		-41409,1125	352	250			sisa	0	0	0	0	0	-			

Tabel 6,7 Lanjutan

BALOK	Ln (mm)	V u,b	d (mm)	b (mm)	Lok	SP (mm)	Jarak		Vu' (N)	Vc (N)	Vs (N)	S (mm)	S min (mm)	Tul Geser	Vs baru (N)	0,6.(Vs+Vc) ≥ Vu'
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16
8D20X50	4375	20522,0295	452	200	Pada SP	1000	0-d	452	50891,7885	0	84819,648	100,39749	113	P10 - 100	85156,8	aman
		35333,0565	452	200			d-Sp	1000	47754,1585	0	79590,264	106,99399	113	P10 - 100	85156,8	aman
		50891,7885	452	200	Luar SP		sisa	0	43950,1293	82523,53	-9273,316	-918,2993	-	P10 - 250	34062,72	aman
8F20X30	850	-73162,0995	252	200	Pada SP	255	0-d	252	73162,0995	0	121936,83	112,13444	63	2P12 - 63	217036,8	aman
		-71296,617	252	200	Luar SP		d-Sp	0	71820,3969	46008,69	73691,967	185,54693	-	2P12 - 150	91155,456	aman
		-68636,5155	252	200			sisa	0	0	0	0	0	-			

Keterangan **Tabel 6.7** Penulangan Gaya Geser Balok

1. Balok yang ditinjau
2. ln = Panjang bersih balok
3. Vu,b terpakai (Tabel 6.6)
4. d = tinggi efektif penampang balok
5. b = lebar penampang balok
6. Menunjukan lokasi tualangan geser
7. Panjang daerah sendi plastis
7. 0,3.Ag.fc' dengan Ag = b .h, fc' = 30 Mpa
8. Daerah penulangan geser
9. Vu' = Gaya Geser yang terjadi
10. Vc = 1/6. b d (fc'^0,5) (gaya geser balok)
11. Vs = Vu,k/0,6 - Vc
    (gaya geser tulangan)
12. S = (Av .fy . d)/Vs (jarak tulangan)
    dengan : fy = 240 Mpa
13. S min = Jarak mimimem yang di ijinkan
    pada daerah sendi plastis
14. Tulangan geser balok terpasang
15. Vs Baru = (Av .fy .d)/s
    dengan : s = jarak terpasang
16. Kontrol Vu,k < 0,6.(Vs+Vc), maka aman

6.3 Desain Kolom

Kolom yang akan didesain telah ditentukan terlebih dahulu letak pada denah portal dan ukuran dimensinya. Kolom-kolom yang didesain adalah sebagai berikut:

- 1K50X50 dengan dimensi 500 mm x 500 mm
- KB50X45 dengan dimensi 500 mm x 450 mm
- 3KB45X45 dengan dimensi 450 mm x 450 mm
- 4KB30X30 dengan dimensi 300 mm x 300 mm
- K30X25 dengan dimensi 300 mm x 250 mm
- 6KB30X50 dengan dimensi 300 mm x 500

Desain kolom pada pembahasan ini meliputi.

1. Momen rencana kolom
2. Gaya aksial rencana kolom
3. Perhitungan diagram interaksi kolom
4. Cek kelangsingan kolom dan □actor pembesaran momen
5. Penulangan lentur dan aksial kolom
6. Gaya geser rencana kolom
7. Penulangan geser kolom
8. Perencanaan pertemuan balok kolom

6.3.1 Momen Rencana Kolom

Momen rencana kolom daengan daktilitas penuh yang ditentukan pada muka balok $M_{u,k}$ dihitung berdasarkan terjadinya kapasitas lentur sendi plastis

pada kedua ujung balok yang bertemu pada kolom tersebut. Momen rencana kolom ditentukan dengan mengambil nilai terkecil dari persamaan berikut (Kusuma dan Androno, 1997):

$$M_{u,k} = \frac{h}{h_n}.0,7.\omega_d.\alpha.1,25.\left[\begin{array}{l}\frac{l_{ki,x}}{l_{nki,x}}M_{nak,b,ki,x} + \frac{l_{ka,x}}{l_{nka,x}}M_{nak,b,ka,x} \\ +0,3.\left(\frac{l_{ki,y}}{l_{nki,y}}M_{nak,b,ki,y} + \frac{l_{ka,y}}{l_{nka,y}}M_{nak,b,ka,y}\right)\end{array}\right]$$

tetapi tidak perlu lebih besar dari

$$M_{u,k_{max}} = 1,05.\left[M_{D,k,x} + M_{L,x} + \frac{4}{k}.\left(M_{E,k,x} + 0,3M_{E,k,y}\right)\right]$$

Sebagai contoh perhitungan ditinjau pada momen kolom atas 1K50X50 bagian 1 (sejajar sumbu x)

Diketahui:

h = 3,3 m

h_n = 2,6 m

$M_{E,k_{lt atas}}$ = 139,17292 KN m

$M_{E,k_{lti-bawah}}$ = 208,98742 KNm

$$\alpha_{atas} = \left(M_{E,k,lti,atas}\right) \Big/ \left(M_{E,k,lti,atas} + M_{E,k,lti-1bawah}\right)$$

$\alpha_{k,atas}$ = 139,17292 /(139,179292 + 208,98742) = 0,3997

$M_{nak,kiri,b-x}$ = 302,42 KNm

$l_{ki,x}$ = 4,5 m

$l_{nki,x}$ = 4,025 m

$M_{nak,kanan,b-x} = 302,42$ KNm

$l_{ka,x} = 4,5$ m

$l_{nka,x} = 4,025$ m

$M_{nak,kiri,b-y} = 0$ KNm

$l_{ki,y} = 0$ m

$l_{nki,y} = 0$ m

$M_{nak,kanan,b-y} = 679,249$ KNm

$l_{ka,y} = 4,25$ m

$l_{nka,y} = 3,75$ m

$M_{D.k-xatas} = -12,3231$ KNm

$M_{L,k-xatas} = -1,70362$ KNm

$M_{Eki,x,atas} = -139,173$ KNm

$M_{Eki,k-yatas} = -126,151$ KNm

$$M_{u,k-x,atas} = \frac{3,3}{2,6}.0,7.1.0,3997.1,25.\left(\begin{array}{l}\frac{4,5}{4,025}.302,42+\frac{4,5}{4,025}.302,42\\+0.3.\left(\frac{0}{0}.0+\frac{4,25}{3,75}.679,249\right)\end{array}\right)$$

$M_{u,k-x,atas} = 402,7259$ KNm

$$M_{u.k.atasmaks} = 1,05.\left[-12,3231+(-1,7036)+\frac{4}{1}.(-139,173+0,3.(-126,151))\right]$$

$M_{u,k,atasmaks} = -758,20269$

Dipakai $M_{u,k-x} = 402{,}7256\,\text{KNm}$

Dengan cara yang sama hitungan untuk momen rencana kolom disajikan pada Tabel 6.8, untuk momen maksimum kolom disajikan pada Tabel 6.9, dan untuk momen terpakai kolom disajikan dalam Tabel 6.10.

Tabel 6.8 Momen Rencana Kolom

KOLOM	Letak	h	hn	Sejajar Sumbu X									Sejajar Sumbu Y								M,u,k - x	M,u,k - y
				M,E,k	α,k	Kiri			Kanan				M,E,k	α,k	Kiri			Kanan				
		(m)	(m)	(kN m)		M nak,b	l ki	ln ki	M nak,b	l ka	ln ka		(kN m)		M nak,b	l ki	ln ki	M nak,b	l ka	ln ka	(kN m)	(kN m)
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22
1K50X50	atas	3,3	2,6	139,1729	0,39974	302,42	4,5	4,025	302,42	4,5	4,025		126,1514	0,44168	0	0	0	679,249	4,25	3,75	402,7259	477,1212
	bawah			208,9874	0,60026	302,42	4,5	4,025	302,42	4,5	4,025		159,4646	0,55832	0	0	0	679,249	4,25	3,75	604,7487	603,116
KB50X45	atas	3,3	2,6	107,7492	0,54623	0	0	0	302,42	4,5	4,05		108,9293	0,53905	141,633	2,5	2,1	679,249	5	4,5	371,8749	471,697
	bawah			89,51201	0,45377	0	0	0	302,42	4,5	4,05		93,14765	0,46095	141,633	2,5	2,1	679,249	5	4,5	308,9329	403,3577
3KB45X45	atas	3,3	2,8	124,9732	0,41558	0	0	0	302,42	7	6,55		56,16103	0,42846	0	0	0	302,42	5	4,775	179,2258	182,7605
	bawah			175,7468	0,58442	0	0	0	302,42	7	6,55		74,91641	0,57154	0	0	0	302,42	5	4,775	252,0409	243,7947
4KB30X30	atas	3,3	2,9	7,869959	0,31578	0	0	0	141,633	4,5	4,2		21,48355	0,5305	0	0	0	141,633	2,5	2,1	63,61803	113,1087
	bawah			17,05203	0,68422	0	0	0	141,633	4,5	4,2		19,01346	0,4695	0	0	0	141,633	2,5	2,1	137,8427	100,1039
K30X25	atas	3,3	2,9	81,60441	0,98789	141,633	5	4,75	0	0	0		45,01808	0,51064	141,633	2,75	2,35	0	0	0	195,5549	107,0094
	bawah			1,000575	0,01211	141,633	5	4,75	0	0	0		43,14218	0,48936	141,633	2,75	2,35	0	0	0	2,397755	102,5504
6K30X50	atas	3,3	2,6	27,33959	0,49189	0	0	0	0	0	0		26,23955	0,48558	679,249	4,25	3,85	679,249	4,25	3,85	245,767	808,7203
	bawah			28,24131	0,50811	0	0	0	0	0	0		27,79778	0,51442	679,249	4,25	3,85	679,249	4,25	3,85	253,8729	856,746
1K50X50	atas	3	2,4	154,1309	0,51265	185,964	4,5	4,025	0	0	0		79,94214	0,50471	0	0	0	570,348	4,25	3,75	225,3091	391,2585
	bawah			146,5249	0,48735	185,964	4,5	4,025	0	0	0		78,45008	0,49529	0	0	0	570,348	4,25	3,75	214,1907	383,9559
KB50X45	atas	4	3,3	106,3247	0,47116	0	0	0	185,964	4,5	4,05		79,96755	0,44726	207,435	2,5	2,1	570,348	5	4,5	235,2815	447,1647
	bawah			119,3389	0,52884	0	0	0	185,964	4,5	4,05		98,82642	0,55274	207,435	2,5	2,1	570,348	5	4,5	264,0801	552,6203
3KB45X45	atas	4	3,5	23,48956	0,52355	0	0	0	185,964	7	6,55		31,09988	0,56204	0	0	0	185,964	5	4,775	134,6357	142,9552
	bawah			21,37621	0,47645	0	0	0	185,964	7	6,55		24,23364	0,43796	0	0	0	185,964	5	4,775	122,5225	111,3935
4KB30X30	atas	4	3,6	22,21058	0,49519	0	0	0	207,435	4,5	4,2		23,11782	0,49532	0	0	0	207,435	2,5	2,1	142,6662	151,0289
	bawah			22,64208	0,50481	0	0	0	207,435	4,5	4,2		23,55445	0,50468	0	0	0	207,435	2,5	2,1	145,4379	153,8814
K30X25	atas	4	3,6	110,4581	0,59053	139,866	5	4,75	0	0	0		22,07907	0,53228	185,964	2,75	2,35	0	0	0	122,0094	135,473
	bawah			76,59047	0,40947	139,866	5	4,75	0	0	0		19,40098	0,46772	185,964	2,75	2,35	0	0	0	84,60003	119,0408
6K30X50	atas	3	2,4	24,24892	0,49547	0	0	0	0	0	0		15,37424	0,50759	570,348	4,25	3,85	570,348	4,25	3,85	204,7178	699,0883
	bawah			24,69223	0,50453	0	0	0	0	0	0		14,91426	0,49241	570,348	4,25	3,85	570,348	4,25	3,85	208,4604	678,1725

Keterangan Tabel 6.8 Momen Rencana Kolom

1. Kolom yang ditinjau
2. Letak yang ditinjau
3. h = tinggi kolom
4. hn = tinggi bersih kolom
5. Me,k = momen pada kolom akibat beban gempa sejajar sb -x
6. a,k = (ME,k,ltatas)/(ME,k,ltatas - ME,k,lt bawah)
   (faktor distribusi momen sejajar sb -x)
7. Mnak,b = momen nominal balok kiri sejajar sb -x (Tabel 6.4)
8. lki = bentang balok sebelah kiri sejajar sb -x
9. lnki = bentang bersih balok sebelah kiri sejajar sb -x
10. Mnak,b = momen nominal balok kanan sejajar sb -x (Tabel 6.4)
11. lka = bentang balok sebelah kanan sejajar sb -x
12. lnka = bentang bersih balok sebelah kanan sejajar sb -x
13. Me,k = momen pada kolom akibat beban gempa sejajar sb -y
14. a,k = (ME,k,ltatas)/(ME,k,ltatas - ME,k,lt bawah)
    (faktor distribusi momen sejajar sb -y)
15. Mnak,b = momen nominal balok kiri sejajar sb -y (Tabel 6.4)
16. lki = bentang balok sebelah kiri sejajar sb -y
17. lnki = bentang bersih balok sebelah kiri sejajar sb -y
18. Mnak,b = momen nominal balok kanan sejajar sb -y (Tabel 6.4)
19. lka = bentang balok sebelah kanan sejajar sb -y
20. lnka = bentang bersih balok sebelah kanan sejajar sb -y
21. Mu,k-x = h/hn .0,7 .Wd .a.1,25 .[lki,x/lnki,x .Mnak,b,ki-x + lka,x/lnka,x .Mnak,b,ka-x
    + 0,3.(lki,y/lnki,y .Mnak,b,ki-y + lka,y/lnka,y .Mnak,b,ka-y)]
    (momen rencana kolom sejajar sb - x)
22. Mu,k-y = h/hn .0,7 .Wd .a.1,25 .[lki,y/lnki,y .Mnak,b,ki-y + lka,x/lnka,y .Mnak,b,ka-y
    + 0,3.(lki,x/lnki,x .Mnak,b,ki-x + lka,x/lnka,x .Mnak,b,ka-x)]
    (momen rencana kolom sejajar sb - y)

Tabel 6.9 Momen Maksimum Kolom

ELEMEN	Letak	Sejajar Sumbu-X				Sejajar Sumbu-y				Akibat Gemap Kiri		Akibat Gempa Kanan	
		MD (kN m)	ML (kN m)	Mexka (kN m)	Mexki (kN m)	MD (kN m)	ML (kN m)	Mexka (kN m)	Mexki (kN m)	Mu-x (kN m)	Mu-y (kN m)	Mu-x (kN m)	Mu-y (kN m)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1K50X50	atas	-12,32311	-1,70301561	139,172925	-139,1729246	33,44460188	11,17719372	126,1513978	-126,1513978	-758,2044814	-658,3408704	728,7496077	752,0466411
	bawah	21,958485	3,44608353	-208,98742	208,987416	-20,2810905	-4,5065152	-159,464579	159,464579	1105,347314	907,04839	-1051,997719	-959,1023619
KB50X45	atas	0,2438401	-0,8191001	107,74919	-107,74919	87,91816809	30,08282724	108,9292825	-108,9292825	-590,401517	-469,3659208	589,1934709	717,168011
	bawah	-0,04241	0,95922173	-89,51201	89,51201	-104,87706	-28,7035067	-93,147653	93,147653	494,2791369	363,7456802	-492,3538327	-644,2648702
3KB45X45	atas	-2,042397	-0,46659358	124,97324	-124,9732399	31,33524972	15,0411341	56,16102891	-56,16102891	-598,284944	-344,6474007	593,016064	442,0378067
	bawah	2,9078177	0,67353366	-175,74678	175,746779	20,13777063	2,03697365	-74,916405	74,916405	836,291561	559,373324	-828,7707232	-512,806361
4KB30X30	atas	0,1145521	0,05039068	7,86995949	-7,86995949	0,30774874	0,18595715	21,48354543	-21,48354543	-59,9499072	-99,62864858	60,296287	100,6654309
	bawah	3,7110202	1,0917944	-17,052029	17,0520289	1,01898222	0,22968177	-19,0134559	19,0134559	100,6184312	102,6531684	-90,53252047	-100,030974
K30X25	atas	1,5761489	0,41480347	-27,33959	27,3395904	6,52238365	1,29256355	26,23955051	-26,23955051	83,85494598	-67,55253368	-79,67394609	83,9639228
	bawah	-1,907992	-0,41995269	28,2413067	-28,24130665	-6,98809577	-1,56681083	-27,7977832	27,7977832	-86,03262254	72,18399113	81,14393966	-90,14929499
6K30X50	atas	-1,071611	-0,14922968	81,6044116	-81,60441158	-1,79141184	-0,67932722	45,01807896	-45,01807896	-400,7431913	-294,4917662	398,1794249	289,3032142
	bawah	-1,348592	-0,26875376	1,00057505	-1,00057505	3,32711602	1,2873174	-43,142184	43,142184	48,45852333	184,7816033	-51,85494993	-175,0912931
1K50X50	atas	15,843798	5,89028956	-154,13086	154,130863	63,89938332	11,70564899	79,94214127	-79,94214127	569,4433189	-62,16682203	-523,8017343	220,9373899
	bawah	-20,52849	-7,1434921	146,524886	-146,524886	-62,141395	-11,8347339	-78,450075	78,450075	-545,6130115	67,1940233	487,5018419	-222,543894
KB50X45	atas	-0,426185	-1,3459099	-106,32468	106,324678	-79,375058	-29,7071042	79,96755333	-79,96755333	343,9438312	-316,4309	-347,6652296	87,3583594
	bawah	1,4963063	1,11498931	119,338898	-119,338898	75,5192726	28,01515177	-98,826422	98,826422	-373,9602194	373,4151065	379,4439403	-155,9928153
3KB45X45	atas	-18,27428	-2,39835956	-23,489563	23,4895632	4,92199662	3,51625962	31,09988054	-31,09988054	37,76404694	-92,16247958	-81,17658498	109,8828177
	bawah	30,59684	10,16730493	21,3762086	-21,37620858	-1,04564575	2,68374629	-24,2336404	24,2336404	-16,44333738	76,56727244	102,0480409	-73,1272613
4KB30X30	atas	0,8620263	0,97212184	-22,210576	22,2105759	2,60093736	-0,21993453	23,11781794	-23,11781794	66,08182373	-66,60945674	-62,23011262	71,60956269
	bawah	2,7816311	-0,89115715	22,6420757	-22,64207569	-7,16414258	0,09513568	-23,5544461	23,5544461	-63,43311818	62,97720101	67,40311345	-77,8221155
K30X25	atas	2,36394	0,90454372	-24,24892	24,2489202	0,40567767	0,37620466	15,37423818	-15,37423818	859,0583261	-33,19718446	-79,04201686	34,83913735
	bawah	-2,207719	-0,83984044	24,692233	-24,69223301	-0,49312529	-0,43243925	-14,914263	14,914263	881,1534505	30,55584824	81,71546947	-32,49953377
6K30X50	atas	17,076941	6,55048485	-110,45812	110,458124	4,27718398	1,32770333	22,07906719	-22,07906719	460,9132938	52,33028572	-411,2956985	-40,56002237
	bawah	22,483691	8,70931468	-76,59047	76,59047	-7,07915074	-2,57546926	-19,4009802	19,4009802	378,8778649	167,850758	-313,3725532	-188,12546

Keterangan **Tabel 6.9** Momen Maksimum Kolom

1. Kolom yang ditinjau
2. Letak yang ditinjau
3. MD = Momen pada kolom akibat beban mati sejajar sb - x
4. ML = Momen pada kolom akibat beban hidup sejajar sb - x
5. Meka = Momen pada kolom akibat beban gempa kanan sejajar sb - x
6. Meki = Momen pada kolom akibat beban gempa kiri sejajar sb - x
7. MD = Momen pada kolom akibat beban mati sejajar sb - y
8. ML = Momen pada kolom akibat beban hidup sejajar sb - y
9. Meka = Momen pada kolom akibat beban gempa kanan sejajar sb - y
10. Meki = Momen pada kolom akibat beban gempa kiri sejajar sb - y
11. Mu-x = 1,05.[MD,ki,x + ML,ki,x + 4/k.(Me,ki,x + 0,3.Me,ki,y)]
    (momen maksimum - x akibat gempa kiri)
12. Mu-y = 1,05.[MD,ki,y + ML,ki,y + 4/k.(Me,ki,y + 0,3.Me,ki,x)]
    (momen maksimum - y akibat gempa kiri)
13. Mu-x = 1,05.[MD,ka,x + ML,ka,x + 4/k.(Me,ka,x + 0,3.Me,ka,y)]
    (momen maksimum - x akibat gempa kanan)
14. Mu-y = 1,05.[MD,ka,y + ML,ka,y + 4/k.(Me,ka,y + 0,3.Me,ka,x)]
    (momen maksimum - y akibat gempa kanan)

Tabel 6.10 Momen Terpakai kolom

Eleman	Letak	Rencana		Momen Maksimum				Terpakai	
		M,u,k - x (kN m)	M,u,k - y (kN m)	Akibat Gemap Kiri		Akibat Gempa Kanan		M,u,k - x (kN m)	M,u,k - y (kN m)
				Mu-x	Mu-y	Mu-x	Mu-y		
1	2	3	4	5	6	7	8	9	10
1K50X50	atas	402,72591	477,12119	758,204481	658,34087	728,749608	752,046641	402,72591	477,12119
	bawah	468,74918	425,52433	1105,34731	907,04839	1051,99772	959,102362	468,74918	425,52433
KB50X45	atas	371,87492	613,10553	590,401517	469,365921	589,193471	717,168011	371,87492	469,36592
	bawah	227,64126	349,14908	494,279137	363,74568	492,353833	644,26487	227,64126	349,14908
3KB45X45	atas	179,22583	182,76049	598,284944	344,647401	593,016064	442,037807	179,22583	182,76049
	bawah	203,67538	197,01159	836,291561	559,373324	828,770723	512,806361	203,67538	197,01159
4KB30X30	atas	63,61803	113,10869	59,9499072	99,6286486	60,296287	100,665431	59,949907	99,628649
	bawah	72,336932	52,532417	100,618431	102,653168	90,5325205	100,030974	72,336932	52,532417
K30X25	atas	195,5549	107,00942	83,854946	67,5525337	79,6739461	83,9639228	79,673946	67,552534
	bawah	1,2582909	53,816255	86,0326225	72,1839911	81,1439397	90,149295	1,2582909	53,816255
6K30X50	atas	245,76699	808,72027	400,743191	294,491766	398,179425	289,303214	245,76699	289,30321
	bawah	172,2567	581,31549	48,4585233	184,781603	51,8549499	175,091293	48,458523	175,09129
1K50X50	atas	225,30912	391,25847	569,443319	62,166822	523,801734	220,93739	225,30912	62,166822
	bawah	139,42665	238,66859	545,613011	67,1940233	487,501842	222,543894	139,42665	67,194023
KB50X45	atas	235,28146	447,16473	343,943831	316,4309	347,66523	87,3583594	235,28146	87,358359
	bawah	166,56252	329,00683	373,960219	373,415107	379,44394	155,992815	166,56252	155,99282
3KB45X45	atas	134,63566	142,95522	37,7640469	92,1624796	81,176585	109,882818	37,764047	92,16248
	bawah	83,795919	76,184561	16,4433374	76,5672724	102,048041	73,1272613	16,443337	73,127261
4KB30X30	atas	142,66625	151,02887	66,0818237	66,6094567	62,2301126	71,6095627	62,230113	66,609457
	bawah	75,802859	80,203621	63,4331182	62,977201	67,4031134	77,8221155	63,433118	62,977201
K30X25	atas	122,00944	135,47304	859,058326	33,1971845	79,0420169	34,8391374	79,042017	33,197184
	bawah	57,632535	81,336795	881,153451	30,5558482	81,7154695	32,4995338	57,632535	30,555848
6K30X50	atas	204,71782	699,08826	460,913294	52,3302857	411,295699	40,5600224	204,71782	40,560022
	bawah	128,32632	417,4768	378,877865	167,850758	313,372553	188,12546	128,32632	167,85076

Keterangan **Tabel 6.10** Momen Terpakai Kolom

1. Kolom yang ditinjau
2. Letak yang ditinjau
3. Momen rencana kolom sejajar sb - x (Tabel 6.8)
4. Momen rencana kolom sejajar sb - y (Tabel 6.8)
5. Momen maksimum - x akibat gempa kiri (Tabel 6.9)
6. Momen maksimum - y akibat gempa kiri (Tabel 6.9)
7. Momen maksimum - x akibat gempa kanan (Tabel 6.9)
8. Momen maksimum - y akibat gempa kanan (Tabel 6.9)
9. Momen terpakai - x pilih yang terkecil
10. Momen terpakai - y pilih yang terkecil

6.3.2 Gaya Aksial Rencana Kolom

Gaya aksial rencana $N_{u,k}$ yang bekerja pada kolom portal dengan daktilitas penuh dihitung dengan rumus sebagai berikut, untuk gaya gravitasi dijumlah dengan arah tegak lurusnya, namun untuk gaya gempa arah tegak lurusnya hanya diambil 30% saja. (Kusuma dan Andriono, 1997)

$$N_{u,k} = 1{,}05.\left(N_{g.k,s} + N_{g,k,y}\right) + Rv.0{,}7{,}1{,}25.\left[\begin{array}{l}\left(\dfrac{\Sigma M_{nak,b,ki,x}}{l_{nb,ki,x}} + \dfrac{\Sigma M_{nak,b,ka,x}}{l_{n,b,ka,x}}\right) \\ + 0{,}3.\left(\dfrac{\Sigma M_{nak,b,ki,y}}{l_{nb,ki,y}} + \dfrac{\Sigma M_{nak,b,ka,y}}{l_{nb,ka,y}}\right)\end{array}\right]$$

tetapi tidak perlu lebih besar dari

$$N_{u,kmaks} = 1{,}05.\left(N_{g,k,x} + N_{g,k,y} + 4/k.\left(N_{E,K,x} + N_{E,k,y}\right)\right)$$

dengan:

$$\Sigma M_{nak} = M_{nakb,ki} + M_{nakb,ka}$$

$N_{g,k} = N_{D,k} + N_{L,k}$ (sesuai arah x dan arah y)

Sebagai contoh perhitungan ditinjau pada kolom 1K50X50

$N_{D,k,x} = 1165{,}227$ KN

$N_{L,k,x} = 176{,}3867$ KN

$N_{g,k,x} = 1165{,}227 + 176{,}3867 = 1341{,}614\,\text{KN}$

$N_{D,k,y} = 1165{,}227\,\text{KN}$

$N_{L,k,x} = 176{,}3867\,\text{KN}$

$N_{g,k,x} = 1165{,}227 + 176{,}3867 = 1341{,}614\,\text{KN}$

$\Sigma M_{nak,b}$ sebelah kiri kolom sejajar sumbu x

$M_{nak,b-} = 302{,}42\,\text{KNm}$

$M_{nak,b+} = 244{,}387\,\text{KNm}$

$\Sigma M_{nak,b,ki,x} = 302{,}42 + 244{,}387 = 546{,}807\,\text{KNm}$

$l_{nb,ki} = 4{,}025\,\text{m}$

$\Sigma M_{nak,b}$ sebelah kanan kolom sejajar sumbu x

$M_{nak,b-} = 302{,}42\,\text{KNm}$

$M_{nak,b+} = 244{,}387\,\text{KNm}$

$\Sigma M_{nak,b,ka,x} = 302{,}42 + 244{,}387 = 546{,}807\,\text{KNm}$

$l_{nb,ka} = 4{,}025\,\text{m}$

$\Sigma M_{nak,b}$ sebelah kiri kolom sejajar sumbu y

$M_{nak,b-} = 0\,\text{KNm}$

$M_{nak,b+} = 0\,\text{KNm}$

$\Sigma M_{nak,b,ki,y} = 0 + 0 = 0\,\text{KNm}$

$l_{nb,ki} = 0\ \text{m}$

$\Sigma M_{nak,b}$ sebelah kanan kolom sejajar sumbu y

$M_{nak,b-} = 302{,}42$ KNm

$M_{nak,b+} = 244{,}387$ KNm

$\Sigma M_{nak,b,ki,x} = 302{,}42 + 244{,}387 = 546{,}807$ KNm

$l_{nb,ki} = 4{,}025$ m

$\Sigma M_{nak,b}$ sebelah kanan kolom sejajar sumbu x

$M_{nak,b-} = 302{,}42$ KNm

$M_{nak,b+} = 244{,}387$ KNm

$\Sigma M_{nak,b,ka,x} = 302{,}42 + 244{,}387 = 546{,}807$ KNm

$l_{nb,ka} = 4{,}025$ m

$\Sigma M_{nak,b}$ sebelah kiri kolom sejajar sumbu y

$M_{nak,b-} = 0$ KNm

$M_{nak,b+} = 0$ KNm

$\Sigma M_{nak,b,ki,y} = 0 + 0 = 0$ KNm

$l_{nb,ki} = 0$ m

$\Sigma M_{nak,b}$ sebelah kanan kolom sejajar sumbu y

Tabel 6.11 Gaya Aksial Rencana Kolom

Dimensi	Arah	Gaya Aksial			kiri			kanan			N_u,k
		N,D,k (kN)	N,L,k (kN)	Ng,k (kN)	M nak,b,ki - (kN m)	M nak,b,ki + (kN m)	Ln,b,ki (m)	M nak,b,ka - (kN m)	M nak,b,ka + (kN m)	Ln,b,ka (m)	(kN)
1	2	3	4	5	6	7	8	9	10	11	12
1K50X50	sb-x	1165,2274	176,38673	1341,6141	302,42	244,387	4,025	302,42	244,387	4,025	3134,940884
	sb-y	1165,2274	176,38673	1341,6141	0	0	0	679,249	460,881	3,75	3154,742596
KB50X45	sb-x	1583,6223	418,60611	2002,2284	0	0	0	302,42	244,387	4,05	4416,319371
	sb-y	1583,6223	418,60611	2002,2284	141,633	74,326	2,1	679,249	460,881	4,5	4551,795654
3KB45X45	sb-x	600,69191	57,60049	658,2924	0	0	0	302,42	244,387	6,55	1485,520847
	sb-y	600,69191	57,60049	658,2924	0	0	0	302,42	244,387	4,775	1504,528297
4KB30X30	sb-x	233,68553	16,69229	250,37782	0	0	0	141,633	74,326	4,2	597,7797553
	sb-y	233,68553	16,69229	250,37782	0	0	0	141,633	74,326	2,1	629,2737762
K30X25	sb-x	365,42981	68,59609	434,0259	141,633	74,326	4,75	0	0	0	975,3593908
	sb-y	365,42981	68,59609	434,0259	141,633	74,326	2,35	0	0	0	947,5120461
6K30X50	sb-x	1119,8079	242,3625	1362,1704	0	0	0	0	0	0	3016,030113
	sb-y	1119,8079	242,3625	1362,1704	679,249	460,881	3,85	679,249	460,881	3,85	3378,798749
1K50X50	sb-x	492,62746	66,05252	558,67998	185,964	127,185	4,025	0	0	0	1305,805258
	sb-y	492,62746	66,05252	558,67998	0	0	0	570,348	351,101	3,75	1408,655486
KB50X45	sb-x	706,24389	163,57868	869,82257	0	0	0	185,964	127,185	4,05	1987,478112
	sb-y	706,24389	163,57868	869,82257	207,435	108,116	2,1	570,348	351,101	4,5	2157,574314
3KB45X45	sb-x	121,01306	0,94356	121,95662	0	0	0	185,964	127,185	6,55	315,1567811
	sb-y	121,01306	0,94356	121,95662	0	0	0	185,964	127,185	4,775	326,0420911
4KB30X30	sb-x	99,86638	2,52245	102,38883	0	0	0	207,435	108,116	4,2	320,2002097
	sb-y	99,86638	2,52245	102,38883	0	0	0	207,435	108,116	2,1	366,2180638
K30X25	sb-x	189,89961	39,79935	229,69896	139,866	95,115	4,75	0	0	0	560,6331993
	sb-y	189,89961	39,79935	229,69896	185,964	127,185	2,35	0	0	0	530,3330177
6K30X50	sb-x	599,00099	95,40142	694,40241	0	0	0	0	0	0	1583,897197
	sb-y	599,00099	95,40142	694,40241	570,348	351,101	3,85	570,348	351,101	3,85	1877,085516

Keterangan **Tabel 6.11** Gaya Aksial Rencana Kolom

1. Kolom yang ditinjau
2. Arah : sejajar sumbu x dan sejajar sumbu y
3. ND,k = Gaya aksial kolom akibat beban mati
4. NL,k = Gaya aksial kolom akibat beban hidup
5. Ng,k = ND,k + NL,k
   (Gaya aksial kolom akibat beban gravitasi)
6. Mnak,b,ka- = Momen nominal aktual negatif balok kiri
7. Mnak,b,ka- = Momen nominal aktual positif balok kiri
8. Ln,b,ki = Bentang bersih balok kiri
9. Mnak,b,ka- = Momen nominal aktual negatif balok kanan
10. Mnak,b,ka- = Momen nominal aktual positif balok kanan
11. Ln,b,ka = Bentang bersih balok kanan
12. Nu,k-x = 1,05 .(Ng,k-x + Ng,k-y) + Rv .0,7 .1,25 .[(SMnak,bki-x/lnb,ki-x + SMnak,b,ka-x/lnb,ka-x) + 0,3 .(SMnak,b,ki-y/lnb,ki-y + Smnak,b,ka-y/lnb,ka-y)]
    (Gaya aksial rencana kolom arah -x)
    Nu,k-y = 1,05 .(Ng,k-x + Ng,k-y) + Rv .0,7 .1,25 .[(SMnak,bki-y/lnb,ki-y + SMnak,b,ka-y/lnb,ka-y) + 0,3 .(SMnak,b,ki-x/lnb,ki-x + Smnak,b,ka-x/lnb,ka-x)]
    (Gaya aksial rencana kolom arah -y)
    dengan Rv = 1

Tabel 6.12 Gaya Aksial Kolom Maksimum

ELEMEN	Letak	ND (kN)	NL (kN)	Ng (kN)	Neka (kN)	Neki (kN)	Akibat Gempa		$N_{u,k}$ Maksimum
							Nu,ka	Nu,ki	
1	2	3	4	5	6	7	8	9	10
1K50X50	Sb- X	1165,227	176,3867	1341,614	30,93037	212,4998	2986,269	3977,638	3977,638354
	Sb- Y	1165,227	176,3867	1341,614	30,93037	212,4998	2986,269	3977,638	3977,638354
KB50X45	Sb- X	1583,622	418,6061	2002,228	-31,90706	-113,3466	4030,467	3585,807	3585,807217
	Sb- Y	1583,622	418,6061	2002,228	-31,90706	-113,3466	4030,467	3585,807	3585,807217
3KB45X45	Sb- X	600,6919	57,60049	658,2924	98,61016	156,3469	1920,826	2236,068	2236,06795
	Sb- Y	600,6919	57,60049	658,2924	98,61016	156,3469	1920,826	2236,068	2236,06795
4KB30X30	Sb- X	233,6855	16,69229	250,3778	84,88027	167,466	989,2397	1440,158	1440,157891
	Sb- Y	233,6855	16,69229	250,3778	84,88027	167,466	989,2397	1440,158	1440,157891
K30X25	Sb- X	365,4298	68,59609	434,0259	-20,32258	12,57815	800,4931	980,1311	980,131089
	Sb- Y	365,4298	68,59609	434,0259	-20,32258	12,57815	800,4931	980,1311	980,131089
6K30X50	Sb- X	1119,808	242,3625	1362,17	-26,1698	-163,97	2717,671	1965,282	2717,670732
	Sb- Y	1119,808	242,3625	1362,17	-26,1698	-163,97	2717,671	1965,282	2717,670732
1K50X50	Sb- X	492,6275	66,05252	558,68	1,86738	17,8279	1183,424	1270,568	1270,568292
	Sb- Y	492,6275	66,05252	558,68	1,86738	17,8279	1183,424	1270,568	1270,568292
KB50X45	Sb- X	706,2439	163,5787	869,8226	10,00334	-89,31515	1881,246	1338,967	1881,245633
	Sb- Y	706,2439	163,5787	869,8226	10,00334	-89,31515	1881,246	1338,967	1881,245633
3KB45X45	Sb- X	121,0131	0,94356	121,9566	9,60641	17,09103	308,5599	349,4259	349,4259258
	Sb- Y	121,0131	0,94356	121,9566	9,60641	17,09103	308,5599	349,4259	349,4259258
4KB30X30	Sb- X	99,86638	2,52245	102,3888	0,83471	-1,54613	219,5741	206,5747	219,5740596
	Sb- Y	99,86638	2,52245	102,3888	0,83471	-1,54613	219,5741	206,5747	219,5740596
K30X25	Sb- X	189,8996	39,79935	229,699	-10,29116	-50,76614	426,1781	205,1847	426,1780824
	Sb- Y	189,8996	39,79935	229,699	-10,29116	-50,76614	426,1781	205,1847	426,1780824
6K30X50	Sb- X	599,001	95,40142	694,4024	47,27119	-90,80456	1716,346	962,4522	1716,345758
	Sb- Y	599,001	95,40142	694,4024	47,27119	-90,80456	1716,346	962,4522	1716,345758

Keterangan **Tabel 6.12** Gaya Aksial Kolom Maksimum

1. Kolom yang ditinjau
2. Arah : sejajar sumbu x dan sejajar sumbu y
3. ND = Gaya aksial kolom akibat beban mati
4. NL = Gaya aksial kolom akibat beban hidup
5. Ng = ND + NL
   (Gaya aksial kolom akibat beban gravitasi)
6. Neka = Gaya aksial kolom akibat beban gempa kanan
7. Neki = Gaya aksial kolom akibat beban gempa kiri
8. Nu,k,ka = 1,05.[Ng,k,x + Ng,k,y + 4/k .(Ne,ka-x + Neka-y)]
   (Gaya aksial kolom maksimum akibat gempa kanan)
9. Nu,k,ki = 1,05.[Ng,k,x + Ng,k,y + 4/k .(Ne,ki-x + Neki-y)]
   (Gaya aksial kolom maksimum akibat gempa kiri)
10. Nu,k maksimum = Gaya aksial kolom maksimum
    (pilih yang terbesar)

Tabel 6.13 Gaya Aksial Kolom Terpakai

Elemen	Arah	N *u*,k Rencana	N *u*,k Maksimum	N *u*,k Terpakai
1	2	3	4	5
1K50X50	sb-x	3134,94088	3977,638354	3134,94088
	sb-y	3154,7426	3977,638354	3154,7426
KB50X45	sb-x	4416,31937	3585,807217	3585,80722
	sb-y	4551,79565	3585,807217	3585,80722
3KB45X45	sb-x	1485,52085	2236,06795	1485,52085
	sb-y	1504,5283	2236,06795	1504,5283
4KB30X30	sb-x	597,779755	1440,157891	597,779755
	sb-y	629,273776	1440,157891	629,273776
K30X25	sb-x	975,359391	980,131089	975,359391
	sb-y	947,512046	980,131089	947,512046
6K30X50	sb-x	3016,03011	2717,670732	2717,67073
	sb-y	3378,79875	2717,670732	2717,67073
1K50X50	sb-x	1305,80526	1270,568292	1270,56829
	sb-y	1408,65549	1270,568292	1270,56829
KB50X45	sb-x	1987,47811	1881,245633	1881,24563
	sb-y	2157,57431	1881,245633	1881,24563
3KB45X45	sb-x	315,156781	349,4259258	315,156781
	sb-y	326,042091	349,4259258	326,042091
4KB30X30	sb-x	320,20021	219,5740596	219,57406
	sb-y	366,218064	219,5740596	219,57406
K30X25	sb-x	560,633199	426,1780824	426,178082
	sb-y	530,333018	426,1780824	426,178082
6K30X50	sb-x	1583,8972	1716,345758	1583,8972
	sb-y	1877,08552	1716,345758	1716,34576

Keterangan **Tabel 6.13** Gaya Aksial Kolom Terpakai
1. Kolom yang ditinjau
2. Arah : sejajar sumbu x dan sejajar sumbu y
3. Nu,k rencana = Gaya aksial rencana kolom (Tabel 6.11)
4. Nu,k,maksimum = Gaya aksial kolom maksimum (Tabel 6.12)
5. Nu,k terpakai = pilih yg terkecil antara Nu,k rencana dengan Nu,k maksimum

6.3.3 Perhitungan Diagram Interaksi Kolom

Sebagai contoh perhitungan diagram interaksi kolom 500 mm x 500 mm ditinjau pada $\rho_g = 0{,}03925$, dengan diketahui

Tulangan yang dianalisis 6D25 (terdistribusi merata pada tiap sisi)

$A_s = 2945{,}243$ mm²

$\rho = A_s / A_g = 0{,}0118$

fc' = 30 MPa. Fy = 390 MPa

b = 500 mm, h = 500 mm, Ag = 500 x 500 = 250.000 mm²

d' = selimut beton+ diameter tul.sengkang + ½.diameter tul.pokok

= 40 + 12 + ½.25 = 64,5 mm

Pada contoh perhitungan ini digunakan, kondisi c = 250 mm (seimbang)

Jarak masing-masing tulangan pada serat beton yang tertekan di tentukan sebagai berikut :

Lapis 1, $A_{s1} = 1471{,}9$ mm²

$d_1 = 64{,}5$ mm

$f_{s1} = 600.(250 - 64{,}5)/250 = 445{,}2$ MPa > fy, digunakan fy = 360 MPa

$C_{s1} = 1471{,}9.(390 - 0{,}85.30) = 536498{,}4$ MPa

Lapis 2, $A_{s2} = 981{,}25$ mm²

$d_2 = 64{,}5 + (2-1).(500 - 2.64{,}5)/2 = 250$ mm

$f_{s2} = 600.(250 - 250)/250 = 0$ MPa < fy

$C_{s2} = 981{,}25.(0 - 0{,}85.30) = -25021{,}875$ MPa

Lapis 3, $A_{s3} = 1471{,}9$ mm²

$$d_2 = 64{,}5 + (3-1).(500 - 2.64{,}5)/2 = 435{,}5 \text{ mm}$$

$$f_{s1} = 600.(250 - 435{,}5)/250 = -445{,}2 \text{ MPa} < \text{-fy, digunakan fy=-390MPa}$$

$$C_{s3} = 981{,}25.(-390 - 0{,}85.30) = -611564{,}1 \text{ MPa}$$

$$Cc = 0{,}85.fc'.ab = 0{,}85.30.212{,}5.500 = 2709375 \text{ MPa}$$

$$0{,}65.Pn = 0{,}65.(\Sigma Cs + Cc)$$

$$0{,}65.Pn = 0{,}65.(536498{,}4 + (-25021{,}875) + (-611564{,}1) + 2709375 = 1696036{,}9 \text{ N}$$

$$0{,}65Mn = 0{,}65.Cc.(d - a/2) + \Sigma Cs.(d - d')$$

$$0{,}65M_n = 0{,}65.2709375.(450 - 212{,}5/2) + 536498{,}4.(450 - 64{,}5/2)$$

$$+ (-25021{,}875).(450 - 250) + (-611564{,}1).(450 - 435{,}5)$$

$$= 391584863 \text{ Nmm}$$

Dengan cara yang sama dapat dihitung interaksi kolom yang lain. (untuk 1K50X50 disajikan pada Tabel 6.14, untuk KB 45X50 disajikan pada Tabel 6.15, untuk 3KB45X45 disajikan pada Tabel 6.16, untuk 4KB30X30 disajikan pada Tabel 6.17, untuk K5 30X25 disajikan pada Tabel 6.18, dan untuk 6K30X50 disajikan pada Tabel 6.19).

Tabel 6.14 Perhitungan Interaksi Kolom 1K50X50

Tulangan 8D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0157			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
3	1471,9	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	250	fsi2	600	266,67	225,00	171,43	100,00	0,00	-150,00	-390,00	-390,00	-390,00
3	1471,9	435,5	fsi3	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
3	1471,9	64,5	Cs1	845592,19	536498,44	536498,44	536498,44	536498,44	536498,438	536498,44	465848,44	275976,56	-293639,1
2	981,25	250	Cs2	563728,13	236644,79	195759,38	143192,41	73103,125	-25021,875	-172209,4	-407709,4	-407709,4	-407709,4
3	1471,9	435,5	Cs3	845592,19	-9076,563	-115910,2	-253267,6	-436410,9	-611564,06	-611564,1	-611564,1	-611564,1	-611564,1
			Cc	6375000	4876875	4335000	3793125	3251250	2709375	2167500	1625625	1083750	541875
			0,65Pn	5609443,1	3666612,1	3218376	2742706,3	2225886,4	1696036,88	1248146,3	696930	221294,53	-501174,4
			0,65Mn	0	252018370	304084166	344861083	376189329	391584863	370892011	326711239	253185992	118903846

Tulangan 12D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0236			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
4	1962,5	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	188,2	fsi2	600	349,11	317,75	277,43	223,67	148,40	35,50	-152,67	-390,00	-390,00
2	981,25	311,8	fsi3	600	184,22	132,25	65,43	-23,67	-148,40	-335,50	-390,00	-390,00	-390,00
4	1962,5	435,5	fsi4	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
4	1962,5	64,5	Cs1	1127456,3	715331,25	715331,25	715331,25	715331,25	715331,25	715331,25	621131,25	367968,75	-391518,8
2	981,25	188,2	Cs2	563728,13	317543,4	286770,31	247204,91	194451,04	120595,625	9812,5	-174826	-407709,4	-407709,4
2	981,25	311,8	Cs3	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,38	-354231,3	-407709,4	-407709,4	-407709,4
4	1962,5	435,5	Cs4	1127456,3	-12102,08	-154546,9	-337690,2	-581881,3	-815418,75	-815418,8	-815418,8	-815418,8	-815418,8
			Cc	6375000	4876875	4335000	3793125	3251250	2709375	2167500	1625625	1083750	541875
			0,65Pn	6342289,7	3934705,9	3436747	2897148,1	2295089,1	1663508,44	1119945,9	551721,35	-116427,2	-962312,8
			0,65Mn	0	280448838	337621317	384963969	425046528	449432628	431666081	379374212	288857729	131681782

Tabel 6.14 Lanjutan

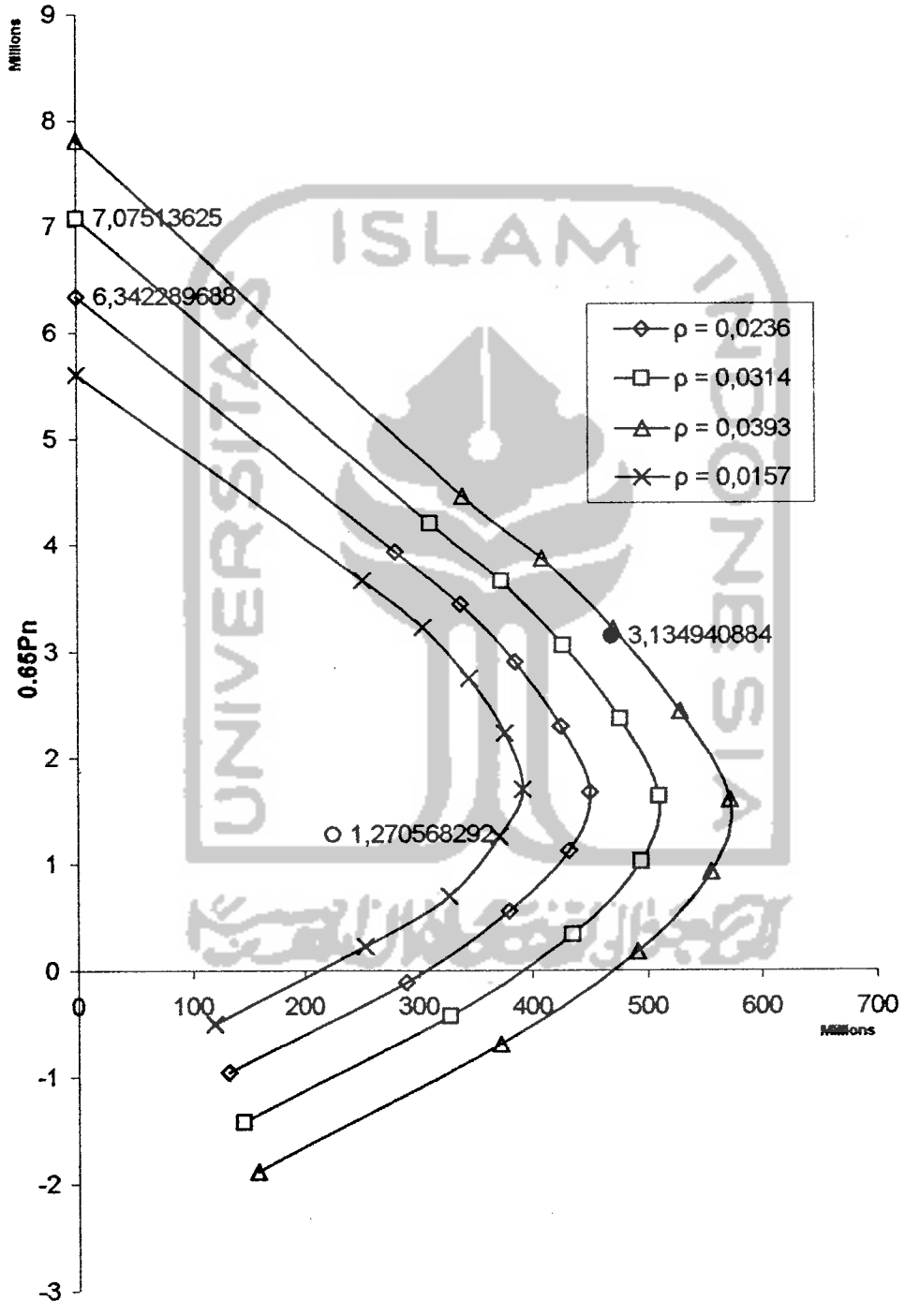
Tulangan 16D22			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ =	0,0314		c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
5	2453,1	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	157,3	fsi2	600	390,00	364,13	330,43	285,50	222,60	128,25	-29,00	-343,50	-390,00
2	981,25	250	fsi3	600	266,67	225,00	171,43	100,00	0,00	-150,00	-390,00	-390,00	-390,00
2	981,25	342,8	fsi4	600	143,00	85,88	12,43	-85,50	-222,60	-390,00	-390,00	-390,00	-390,00
5	2453,1	435,5	fsi5	600	19,333333	-53,25	-146,5714	-271	-390	-390	-390	-390	-390
5	2453,1	64,5	Cs1	1409320,3	894164,06	894164,06	894164,06	894164,06	894164,063	894164,06	776414,06	459960,94	-489398,4
2	981,25	157,3	Cs2	563728,13	357665,63	332275,78	299211,16	255125	193404,375	100823,44	-53478,13	-362081,3	-407709,4
2	981,25	250	Cs3	563728,13	236644,79	195759,38	143192,41	73103,125	-25021,875	-172209,4	-407709,4	-407709,4	-407709,4
2	981,25	342,8	Cs4	563728,13	115296,88	59242,969	-12826,34	-108918,8	-243448,13	-407709,4	-407709,4	-407709,4	-407709,4
5	2453,1	435,5	Cs5	1409320,3	-15127,6	-193183,6	-422112,7	-727351,6	-1019273,4	-1019273	-1019273	-1019273	-1019273
			Cc	6375000	4876875	4335000	3793125	3251250	2709375	2167500	1625625	1083750	541875
			0,65Pn	7075136,3	4202587,2	3655118,1	3051589,8	2364291,7	1630980	1016142	334014,69	-424490,6	-1423451
			0,65Mn	0	310485313	372987409	427157073	476342315	510206698	493835273	434672963	327280272	144459717

Tulangan 20D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ =	0,0393		c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
6	2943,8	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	138,7	fsi2	600	390,00	390,00	362,23	322,60	267,12	183,90	45,20	-232,20	-390,00
2	981,25	212,9	fsi3	600	316,13	280,65	235,03	174,20	89,04	-38,70	-251,60	-390,00	-390,00
2	981,25	287,1	fsi4	600	217,20	169,35	107,83	25,80	-89,04	-261,30	-390,00	-390,00	-390,00
2	981,25	361,3	fsi5	600	118,27	58,05	-19,37	-122,60	-267,12	-390,00	-390,00	-390,00	-390,00
6	2943,8	435,5	fsi6	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
6	2943,8	64,5	Cs1	1691184,4	1072996,9	1072996,9	1072996,9	1072996,9	1072996,88	1072996,9	931696,88	551953,13	-587278,1
2	981,25	138,7	Cs2	563728,13	357665,63	357665,63	330414,91	291529,38	237089,625	155430	19330,625	-252868,1	-407709,4
2	981,25	212,9	Cs3	563728,13	285183,96	250365,94	205599,91	145911,88	62348,625	-62996,25	-271904,4	-407709,4	-407709,4
2	981,25	287,1	Cs4	563728,13	188105,63	141152,81	80784,911	294,375	-112392,38	-281422,5	-407709,4	-407709,4	-407709,4
2	981,25	361,3	Cs5	563728,13	91027,292	31939,688	-44030,09	-145323,1	-287133,38	-407709,4	-407709,4	-407709,4	-407709,4
6	2943,8	435,5	Cs6	1691184,4	-18153,13	-231820,3	-506535,3	-872821,9	-1223128,1	-1223128	-1223128	-1223128	-1223128
			Cc	6375000	4876875	4335000	3793125	3251250	2709375	2167500	1625625	1083750	541875
			0,65Pn	7807982,8	4454905,8	3872245,4	3206031,6	2433494,4	1598451,56	923435,91	173030,81	-691223,8	-1884590
			0,65Mn	0	339432070	408946650	470186264	528613537	572151291	555327314	490789397	371403193	157237653

Keterangan **Tabel 6.14** Perhitungan Interaksi Kolom 1K50X50
n = jumlah tulangan pada masing-masing sisi
Asi = n .1/4. p^2. (luas total tulangan)
$d = d' + [(I-1).(h - 2.d')]/(N - 1)$
(Jarak tulangan terhadap serat beton tekan)
dengan : I = nomor lapis tulangan
N = banyaknya garis tulangan

c = jarak sumbu terhadap serat terluar
a = b1 . C
fsi = 0,003 . [(c - di)/c]. Es
dengan : Es = 200.000 Mpa
Cs = As .(fs - 0,85 .fc') , (gaya tekan)
0,65 .Pn = 0,65 .(SCs + Cc)
0,65 .Mn = 0,65 .Cc.(d -a/2) + SCs.(d-a')

Gambar 6.5 Grafik PnMn 1K 50X50



Tabel 6.15 Perhitungan Interaksi Kolom KB 50X40

Tulangan 10D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0218			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
3	1471,9	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	188,2	fsi2	600	349,11	317,75	277,43	223,67	148,40	35,50	-152,67	-390,00	-390,00
2	981,25	311,8	fsi3	600	184,22	132,25	65,43	-23,67	-148,40	-335,50	-390,00	-390,00	-390,00
3	1471,9	435,5	fsi4	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
3	1471,9	64,5	Cs1	845592,19	536498,44	536498,44	536498,44	536498,44	536498,44	536498,44	465848,44	275976,56	-293639,1
2	981,25	188,2	Cs2	563728,13	317543,4	286770,31	247204,91	194451,04	120595,63	9812,5	-174826	-407709,4	-407709,4
2	981,25	311,8	Cs3	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,4	-354231,3	-407709,4	-407709,4	-407709,4
3	1471,9	435,5	Cs4	845592,19	-9076,563	-115910,2	-253267,6	-436410,9	-611564,1	-611564,1	-611564,1	-611564,1	-611564,1
			Cc	5737500	4389187,5	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	5561491,4	3503434,3	3063844,6	2589228,3	2062072,2	1503663,3	995322,66	477627,45	-114160,3	-801407,3
			0,65Mn	0	239897703	288857929	328258451	360055601	377974360	362277098	316390985	238568914	110846842

Tulangan 14D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0305			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
4	1962,5	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	157,3	fsi2	600	390,00	364,13	330,43	285,50	222,60	128,25	-29,00	-343,50	-390,00
2	981,25	250	fsi3	600	266,67	225,00	171,43	100,00	0,00	-150,00	-390,00	-390,00	-390,00
2	981,25	342,8	fsi4	600	143,00	85,88	12,43	-85,50	-222,60	-390,00	-390,00	-390,00	-390,00
4	1962,5	435,5	fsi5	600	19,333333	-53,25	-146,5714	-271	-390	-390	-390	-390	-390
4	1962,5	64,5	Cs1	1127456,3	715331,25	715331,25	715331,25	715331,25	715331,25	715331,25	621131,25	367968,75	-391518,8
2	981,25	157,3	Cs2	563728,13	357665,63	332275,78	299211,16	255125	193404,38	100823,44	-53478,13	-362081,3	-407709,4
2	981,25	250	Cs3	563728,13	236644,79	195759,38	143192,41	73103,125	-25021,88	-172209,4	-407709,4	-407709,4	-407709,4
2	981,25	342,8	Cs4	563728,13	115296,88	59242,969	-12826,34	-108918,8	-243448,1	-407709,4	-407709,4	-407709,4	-407709,4
4	1962,5	435,5	Cs5	1127456,3	-12102,08	-154546,9	-337690,2	-581881,3	-815418,8	-815418,8	-815418,8	-815418,8	-815418,8
			Cc	5737500	4389187,5	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	6294338	3771315,6	3282215,6	2743670	2131274,8	1471134,8	891518,67	259920,78	-422223,8	-1262546
			0,65Mn	0	269934178	324224021	370451555	411351388	438748430	424446291	371689737	276991457	123624778

Tulangan 18D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0393			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
5	2453,1	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	138,7	fsi2	600	390,00	390,00	362,23	322,60	267,12	183,90	45,20	-232,20	-390,00
2	981,25	212,9	fsi3	600	316,13	280,65	235,03	174,20	89,04	-38,70	-251,60	-390,00	-390,00
2	981,25	287,1	fsi4	600	217,20	169,35	107,83	25,80	-89,04	-261,30	-390,00	-390,00	-390,00
2	981,25	361,3	fsi5	600	118,27	58,05	-19,37	-122,60	-267,12	-390,00	-390,00	-390,00	-390,00
5	2453,1	435,5	fsi6	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00

Tabel 6.15 Lanjutan

Tulangan 18D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0393			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
5	2453,1	64,5	Cs1	1409320,3	894164,06	894164,06	894164,06	894164,06	894164,06	894164,06	776414,06	459960,94	-489398,4
2	981,25	138,7	Cs2	563728,13	357665,63	357665,63	330414,91	291529,38	237089,63	155430	19330,625	-252868,1	-407709,4
2	981,25	212,9	Cs3	563728,13	285183,96	250365,94	205599,91	145911,88	62348,625	-62996,25	-271904,4	-407709,4	-407709,4
2	981,25	287,1	Cs4	563728,13	188105,63	141152,81	80784,911	294,375	-112392,4	-281422,5	-407709,4	-407709,4	-407709,4
2	981,25	361,3	Cs5	563728,13	91027,292	31939,688	-44030,09	-145323,1	-287133,4	-407709,4	-407709,4	-407709,4	-407709,4
5	2453,1	435,5	Cs6	1409320,3	-15127,6	-193183,6	-422112,7	-727351,6	-1019273	-1019273	-1019273	-1019273	-1019273
			Cc	5737500	4389187,5	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	7027184,5	4023634,2	3499342,9	2898111,8	2200477,5	1438606,4	798812,63	98936,906	-688956,9	-1723684
			0,65Mn	0	298880935	360183261	413480746	463622610	500693023	485938331	427806171	321114378	136402713

Tulangan 22D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0480			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
6	2943,8	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	126,3	fsi2	600	390,00	390,00	383,43	347,33	296,80	221,00	94,67	-158,00	-390,00
2	981,25	188,2	fsi3	600	349,11	317,75	277,43	223,67	148,40	35,50	-152,67	-390,00	-390,00
2	981,25	250	fsi4	600	266,67	225,00	171,43	100,00	0,00	-150,00	-390,00	-390,00	-390,00
2	981,25	311,8	fsi5	600	184,22	132,25	65,43	-23,67	-148,40	-335,50	-390,00	-390,00	-390,00
2	981,25	373,7	fsi6	600	101,78	39,50	-40,57	-147,33	-296,80	-390,00	-390,00	-390,00	-390,00
6	2943,8	435,5	fsi7	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
6	2943,8	64,5	Cs1	1691184,4	1072996,9	1072996,9	1072996,9	1072996,9	1072996,9	1072996,9	931696,88	551953,13	-587278,1
2	981,25	126,3	Cs2	563728,13	357665,63	357665,63	351217,41	315798,96	266213,13	191834,38	67869,792	-180059,4	-407709,4
2	981,25	188,2	Cs3	563728,13	317543,4	286770,31	247204,91	194451,04	120595,63	9812,5	-174826	-407709,4	-407709,4
2	981,25	250	Cs4	563728,13	236644,79	195759,38	143192,41	73103,125	-25021,88	-172209,4	-407709,4	-407709,4	-407709,4
2	981,25	311,8	Cs5	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,4	-354231,3	-407709,4	-407709,4	-407709,4
2	981,25	373,7	Cs6	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,4	-354231,3	-407709,4	-407709,4	-407709,4
6	2943,8	435,5	Cs7	1691184,4	224542,71	41212,5	-194497,8	-508778,1	-848770,6	-1223128	-1223128	-1223128	-1223128
			Cc	5737500	4389187,5	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	7760031,1	4491547,6	3942511	3322986	2585184,7	1679061,7	729035,94	-102994,5	-979353	-2184823
			0,65Mn	0	292648317	354931490	410943188	462732624	518437000	544599310	484528636	363883391	149180649

Keterangan Tabel 6.15 Perhitungan Interaksi Kolom KB 50X40

n = jumlah tulangan pada masing-masing sisi

Asi = n .1/4. p^2. (luas total tulangan)

d = d' + [(I -1).(h - 2.d')]/(N - 1)

(Jarak tulangan terhadap serat beton tekan)

dengan : I = nomor lapis tulangan

N = banyaknya garis tulangan

c = jarak sumbu terhadap serat terluar

a = b1 . C

fsi = 0,003 . [(c - di)/c]. Es

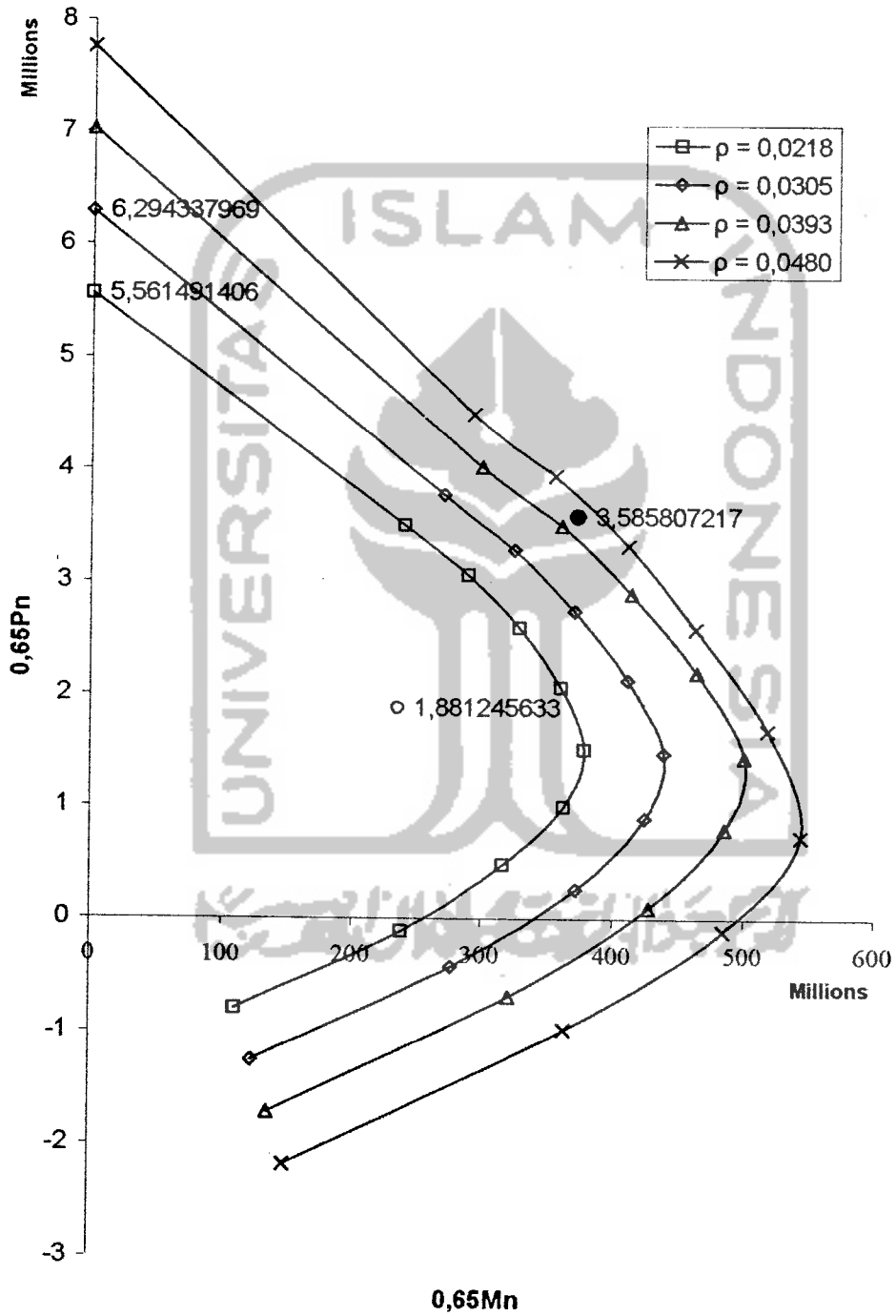
dengan : Es = 200.000 Mpa

Cs = As .(fs - 0,85 .fc') , (gaya tekan)

0,65 .Pn = 0,65 .(SCs + Cc)

0,65 .Mn = 0,65 .Cc.(d -a/2) + SCs.(d-s')

Gambar 6.6 Grafik PnMn KB 50X40



Tabel 6.16 Perhitungan Interaksi Kolom 3KB 45X45

Tulangan 8D19			Kondisi	1	2	3	4	5	6	7	8	9
ρ = 0,0112			c	0	400	350	300	250	200	150	100	50
n	Asi	d	a	450	340	297,5	255	212,5	170	127,5	85	42,5
3	850,16	61,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	354,00	231,00	-138,00
2	566,77	225	fsi2	600	262,50	214,29	150,00	60,00	-75,00	-300,00	-390,00	-390,00
3	850,16	388,5	fsi3	600	17,25	-66,00	-177,00	-332,40	-390,00	-390,00	-390,00	-390,00
3	850,16	61,5	Cs1	488414,05	309881,5	309881,5	309881,5	309881,5	309881,5	279275,92	174706,85	-139000,3
2	566,77	225	Cs2	325609,37	134324,49	106998,08	70562,865	19553,565	-56960,39	-184483,6	-235492,9	-235492,9
3	850,16	388,5	Cs3	488414,05	-7013,779	-77789,18	-172156,4	-304270,5	-353239,4	-353239,4	-353239,4	-353239,4
			Cc	5163750	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	4203021,8	2820149,9	2439386,9	2037368,4	1601341,4	1202780,6	783000	364877,18	-156029,4
			0,65Mn	0	173156670	210396784	236671748	253485895	247991424	220567804	171811348	87356369

Tulangan 12D19			Kondisi	1	2	3	4	5	6	7	8	9
ρ = 0,0168			c	0	400	350	300	250	200	150	100	50
n	Asi	d	a	450	340	297,5	255	212,5	170	127,5	85	42,5
4	1133,5	61,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	354,00	231,00	-138,00
2	566,77	170,5	fsi2	600	344,25	307,71	259,00	190,80	88,50	-82,00	-390,00	-390,00
2	566,77	279,5	fsi3	600	180,75	120,86	41,00	-70,80	-238,50	-390,00	-390,00	-390,00
4	1133,5	388,5	fsi4	600	17,25	-66,00	-177,00	-332,40	-390,00	-390,00	-390,00	-390,00
4	1133,5	61,5	Cs1	651218,73	413175,33	413175,33	413175,33	413175,33	413175,33	372367,89	232942,47	-185333,8
2	566,77	170,5	Cs2	325609,37	180657,94	159950,59	132340,8	93687,081	35706,51	-60927,78	-235492,9	-235492,9
2	566,77	279,5	Cs3	325609,37	87991,043	54045,568	8784,935	-54579,95	-149627,3	-235492,9	-235492,9	-235492,9
4	1133,5	388,5	Cs4	651218,73	-9351,705	-103718,9	-229541,9	-405694	-470985,9	-470985,9	-470985,9	-470985,9
			Cc	5163750	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	4626314	2973082,2	2559222,3	2113074,7	1615266,9	1156362,1	694215,48	173124,72	-415751,7
			0,65Mn	0	187665410	227881703	258124907	280494589	278047931	249158630	190513844	94945788

Tulangan 16D19			Kondisi	1	2	3	4	5	6	7	8	9
ρ = 0,0224			c	0	400	350	300	250	200	150	100	50
n	Asi	d	a	450	340	297,5	255	212,5	170	127,5	85	42,5
5	1416,9	61,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	354,00	231,00	-138,00
2	566,77	143,3	fsi2	600	385,13	354,43	313,50	256,20	170,25	27,00	-259,50	-390,00
2	566,77	225	fsi3	600	262,50	214,29	150,00	60,00	-75,00	-300,00	-390,00	-390,00
2	566,77	306,8	fsi4	600	139,88	74,14	-13,50	-136,20	-320,25	-390,00	-390,00	-390,00
5	1416,9	388,5	fsi5	600	17,25	-66	-177	-332,4	-390	-390	-390	-390

Tabel 6.16 Lanjutan

Tulangan 16D19			Kondisi	1	2	3	4	5	6	7	8	9
ρ = 0,0224			c	0	400	350	300	250	200	150	100	50
n	Asi	d	a	450	340	297,5	255	212,5	170	127,5	85	42,5
5	1416,9	61,5	Cs1	814023,41	516469,16	516469,16	516469,16	516469,16	516469,16	465459,86	291178,09	-231667,2
2	566,77	143,3	Cs2	325609,37	203824,66	186426,85	163229,76	130753,84	82039,958	850,155	-161529,5	-235492,9
2	566,77	225	Cs3	325609,37	134324,49	106998,08	70562,865	19553,565	-56960,39	-184483,6	-235492,9	-235492,9
2	566,77	306,8	Cs4	325609,37	64824,319	27569,312	-22104,03	-91646,71	-195960,7	-235492,9	-235492,9	-235492,9
5	1416,9	388,5	Cs5	814023,41	-11689,63	-129648,6	-286927,3	-507117,5	-588732,3	-588732,3	-588732,3	-588732,3
			Cc	5163750	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	5049606,2	3126014,5	2679057,7	2188781	1629192,4	1109943,7	598431,35	29448,53	-675474,1
			0,65Mn	0	202994832	246304543	280672307	308816372	309745801	277940195	213146574	102535207

Tulangan 20D19			Kondisi	1	2	3	4	5	6	7	8	9
ρ = 0,0280			c	0	400	350	300	250	200	150	100	50
n	Asi	d	a	450	340	297,5	255	212,5	170	127,5	85	42,5
6	1700,3	61,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	354,00	231,00	-138,00
2	566,77	126,9	fsi2	600	390,00	382,46	346,20	295,44	219,30	92,40	-161,40	-390,00
2	566,77	192,3	fsi3	600	311,55	270,34	215,40	138,48	23,10	-169,20	-390,00	-390,00
2	566,77	257,7	fsi4	600	213,45	158,23	84,60	-18,48	-173,10	-390,00	-390,00	-390,00
2	566,77	323,1	fsi5	600	115,35	46,11	-46,20	-175,44	-369,30	-390,00	-390,00	-390,00
6	1700,3	388,5	fsi6	600	17,25	-66,00	-177,00	-332,40	-390,00	-390,00	-390,00	-390,00
6	1700,3	61,5	Cs1	976828,1	619763	619763	619763	619763	619763	558551,84	349413,71	-278000,7
2	566,77	126,9	Cs2	325609,37	206587,67	202312,6	181763,14	152993,89	109840,03	37916,913	-105929,3	-235492,9
2	566,77	192,3	Cs3	325609,37	162124,56	138769,59	107629,62	64033,675	-1360,248	-110350,1	-235492,9	-235492,9
2	566,77	257,7	Cs4	325609,37	106524,42	75226,572	33496,107	-24926,54	-112560,5	-235492,9	-235492,9	-235492,9
2	566,77	323,1	Cs5	325609,37	50924,285	11683,559	-40637,41	-113886,8	-223760,8	-235492,9	-235492,9	-235492,9
6	1700,3	388,5	Cs6	976828,1	-14027,56	-155578,4	-344312,8	-608540,9	-706478,8	-706478,8	-706478,8	-706478,8
			Cc	5163750	3901500	3413812,5	2926125	2438437,5	1950750	1463062,5	975375	487687,5
			0,65Pn	5472898,4	3271707,6	2798893,1	2264487,3	1643118	1063525,2	501615,7	-126163,8	-935196,4
			0,65Mn	0	217942372	265102553	303657403	337663391	342100216	307882259	236180460	110124625

Keterangan **Tabel 6.16** Perhitungan Interaksi Kolom 3KB 45X45

n = jumlah tulangan pada masing-masing sisi

Asi = n .1/4. p^2. (luas total tulangan)

d = d' + [(I -1).(h - 2.d')]/(N - 1)

(Jarak tulangan terhadap serat beton tekan)

dengan : I = nomor lapis tulangan

N = banyaknya garis tulangan

c = jarak sumbu terhadap serat terluar

a = b1 . C

fsi = 0,003 . [(c - di)/c]. Es

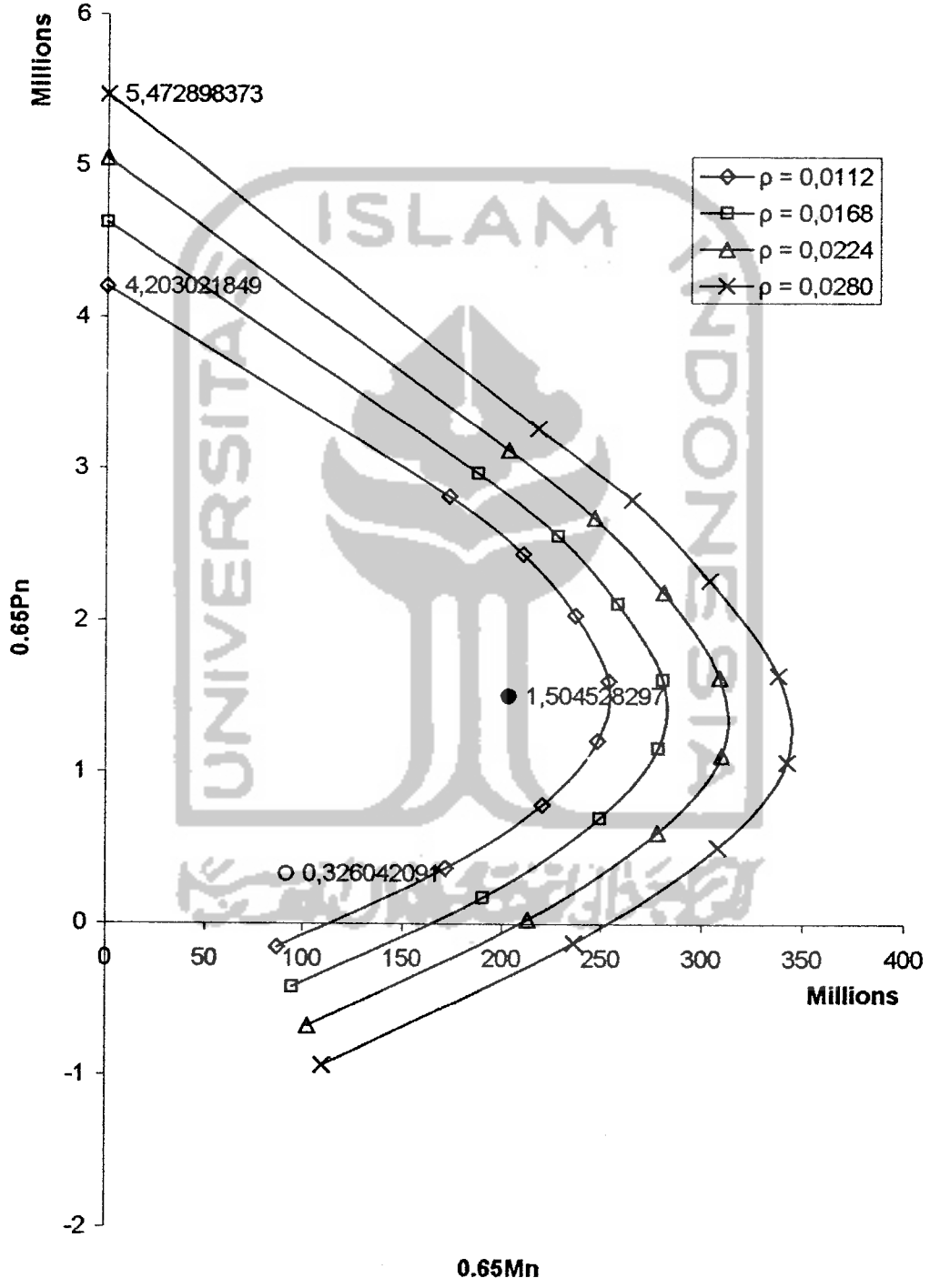
dengan : Es = 200.000 Mpa

Cs = As .(fs - 0,85 .fc') . (gaya tekan)

0,65 .Pn = 0,65 .(SCs + Cc)

0,65 .Mn = 0,65 .Cc.(d -a/2) + SCs.(d-a')

Gambar 6.7 Grafik PnMn 3KB 45X45



Tabel 6.17 Perhitungan Interaksi Kolom 4KB 30X30

Tulangan 8D19			Kondisi	1	2	3	4	5	6
ρ = 0,0252			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
3	850,16	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	150	fsi2	600	240,00	150,00	0,00	-300,00	-390,00
3	850,16	248,5	fsi3	600	3,60	-145,50	-390,00	-390,00	-390,00
3	850,16	51,5	Cs1	488414,05	309881,5	309881,5	309881,5	225716,15	-36981,74
2	566,77	150	Cs2	325609,37	121572,17	70562,865	-14452,64	-184483,6	-235492,9
3	850,16	248,5	Cs3	488414,05	-18618,39	-145376,5	-353239,4	-353239,4	-353239,4
			Cc	2295000	1625625	1300500	975375	650250	325125
			0,65Pn	2338334,3	1324999,2	998119,11	596416,9	219858,02	-195382,9
			0,65Mn	0	67260917	84094019	97138277	82503848	47457295

Tulangan 12D19			Kondisi	1	2	3	4	5	6
ρ = 0,0378			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
4	1133,5	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	117,2	fsi2	600	318,80	248,50	131,33	-103,00	-390,00
2	566,77	182,8	fsi3	600	161,20	51,50	-131,33	-390,00	-390,00
4	1133,5	248,5	fsi4	600	3,60	-145,50	-390,00	-390,00	-390,00
4	1133,5	51,5	Cs1	651218,73	413175,33	413175,33	413175,33	300954,87	-49308,99
2	566,77	117,2	Cs2	325609,37	166233,64	126389,71	59983,158	-72829,95	-235492,9
2	566,77	182,8	Cs3	325609,37	76910,689	14736,02	-88888,43	-235492,9	-235492,9
4	1133,5	248,5	Cs4	651218,73	-24824,53	-193835,3	-470985,9	-470985,9	-470985,9
			Cc	2295000	1625625	1300500	975375	650250	325125
			0,65Pn	2761626,5	1467128,1	1079627,7	577628,47	111732,48	-433001,2
			0,65Mn	0	76177952	96192859	114467550	98331224	54206761

Tulangan 16D19			Kondisi	1	2	3	4	5	6
ρ = 0,0504			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
5	1416,9	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	100,8	fsi2	600	358,20	297,75	197,00	-4,50	-390,00
2	566,77	150	fsi3	600	240,00	150,00	0,00	-300,00	-390,00
2	566,77	199,3	fsi4	600	121,80	2,25	-197,00	-390,00	-390,00
5	1416,9	248,5	fsi5	600	3,6	-145,5	-390	-390	-390
5	1416,9	51,5	Cs1	814023,41	516469,16	516469,16	516469,16	376193,59	-61636,24
2	566,77	100,8	Cs2	325609,37	188564,38	154303,13	97201,055	-17003,1	-235492,9
2	566,77	150	Cs3	325609,37	121572,17	70562,865	-14452,64	-184483,6	-235492,9
2	566,77	199,3	Cs4	325609,37	54579,951	-13177,4	-126106,3	-235492,9	-235492,9
5	1416,9	248,5	Cs5	814023,41	-31030,66	-242294,2	-588732,3	-588732,3	-588732,3
			Cc	2295000	1625625	1300500	975375	650250	325125
			0,65Pn	3184918,7	1609257	1161136,3	558840,05	475,527	-670619,5
			0,65Mn	0	85571563	108887418	132591114	114210007	60956226

Tabel 6.17 Lanjutan

Tulangan 20D19			Kondisi	1	2	3	4	5	6
ρ = 0,0630			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
6	1700,3	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	90,9	fsi2	600	381,84	327,30	236,40	54,60	-390,00
2	566,77	130,3	fsi3	600	287,28	209,10	78,80	-181,80	-390,00
2	566,77	169,7	fsi4	600	192,72	90,90	-78,80	-390,00	-390,00
2	566,77	209,1	fsi5	600	98,16	-27,30	-236,40	-390,00	-390,00
6	1700,3	248,5	fsi6	600	3,60	-145,50	-390,00	-390,00	-390,00
6	1700,3	51,5	Cs1	976828,1	619763	619763	619763	451432,31	-73963,49
2	566,77	90,9	Cs2	325609,37	201962,82	171051,19	119531,79	16493,007	-235492,9
2	566,77	130,3	Cs3	325609,37	148369,05	104058,97	30208,841	-117491,4	-235492,9
2	566,77	169,7	Cs4	325609,37	94775,279	37066,758	-59114,11	-235492,9	-235492,9
2	566,77	209,1	Cs5	325609,37	41181,508	-29925,46	-148437,1	-235492,9	-235492,9
6	1700,3	248,5	Cs6	976828,1	-37236,79	-290753	-706478,8	-706478,8	-706478,8
			Cc	2295000	1625625	1300500	975375	650250	325125
			0,65Pn	3608210,9	1751385,9	1242644,9	540051,62	-114907,5	-908237,9
			0,65Mn	0	95155805	121820265	151032396	130762527	67705692

Keterangan **Tabel 6.17** Perhitungan Interaksi Kolom 4KB 30X30

n = jumlah tulangan pada masing-masing sisi

Asi = π .1/4. p^2. (luas total tulangan)

d = d' + [(I -1).(h - 2.d')]/(N - 1)

(Jarak tulangan terhadap serat beton tekan)

dengan : I = nomor lapis tulangan

N = banyaknya garis tulangan

c = jarak sumbu terhadap serat terluar

a = b1 . C

fsi = 0,003 . [(c - di)/c]. Es

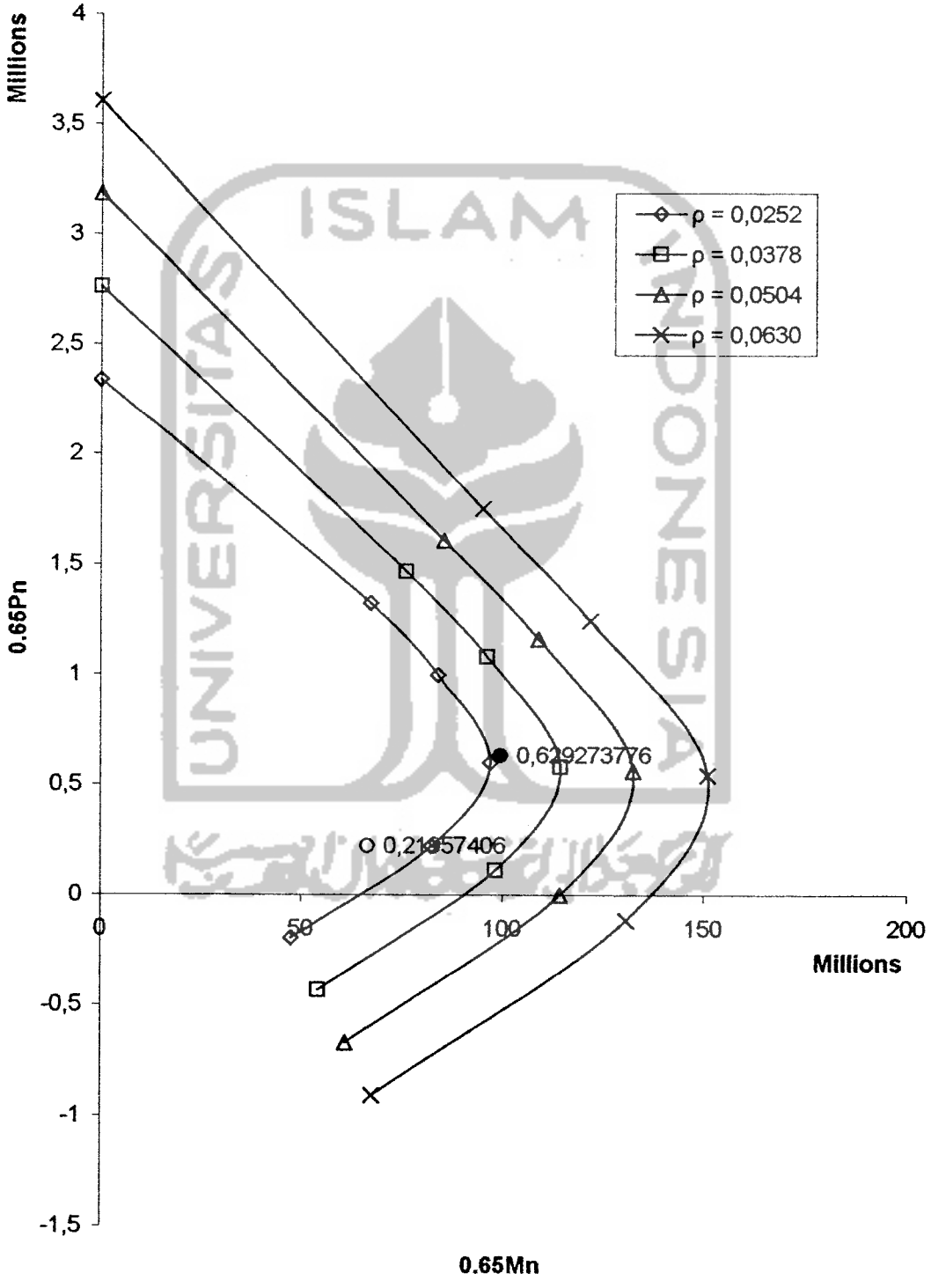
dengan : Es = 200.000 Mpa

Cs = As .(fs - 0,85 .fc') , (gaya tekan)

0,65 .Pn = 0,65 .(SCs + Cc)

0,65 .Mn = 0,65 .Cc.(d -a/2) + SCs.(d-a')

Gambar 6.8 Grafik PnMn 4KB 30X30



Tabel 6.18 Perhitungan Interaksi Kolom K5 30 X 25

Tulangan 8D19			Kondisi	1	2	3	4	5	6
ρ = 0,0302			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
2	566,77	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	150	fsi2	600	240,00	150,00	0,00	-300,00	-390,00
2	566,77	248,5	fsi3	600	3,60	-145,50	-390,00	-390,00	-390,00
2	566,77	51,5	Cs1	325609,37	206587,67	206587,67	206587,67	150477,44	-24654,5
2	566,77	150	Cs2	325609,37	121572,17	70562,865	-14452,64	-184483,6	-235492,9
2	566,77	248,5	Cs3	325609,37	-12412,26	-96917,67	-235492,9	-235492,9	-235492,9
			Cc	1912500	1354687,5	1083750	812812,5	541875	270937,5
			0,65Pn	1878063,3	1085782,8	821588,86	500145,49	177044,31	-146056,9
			0,65Mn	0	52545396	65220367	73872511	62575269	36173013

Tulangan 10D19			Kondisi	1	2	3	4	5	6
ρ = 0,0378			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
3	850,16	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	117,2	fsi2	600	318,80	248,50	131,33	-103,00	-390,00
2	566,77	182,8	fsi3	600	161,20	51,50	-131,33	-390,00	-390,00
3	850,16	248,5	fsi4	600	3,60	-145,50	-390,00	-390,00	-390,00
3	850,16	51,5	Cs1	488414,05	309881,5	309881,5	309881,5	225716,15	-36981,74
2	566,77	117,2	Cs2	325609,37	166233,64	126389,71	59983,158	-72829,95	-235492,9
2	566,77	182,8	Cs3	325609,37	76910,689	14736,02	-88888,43	-235492,9	-235492,9
3	850,16	248,5	Cs4	488414,05	-18618,39	-145376,5	-353239,4	-353239,4	-353239,4
			Cc	1912500	1354687,5	1083750	812812,5	541875	270937,5
			0,65Pn	2301355,4	1227911,7	903097,47	481357,06	68918,766	-383675,2
			0,65Mn	0	61462432	77319207	91201784	78402644	42922479

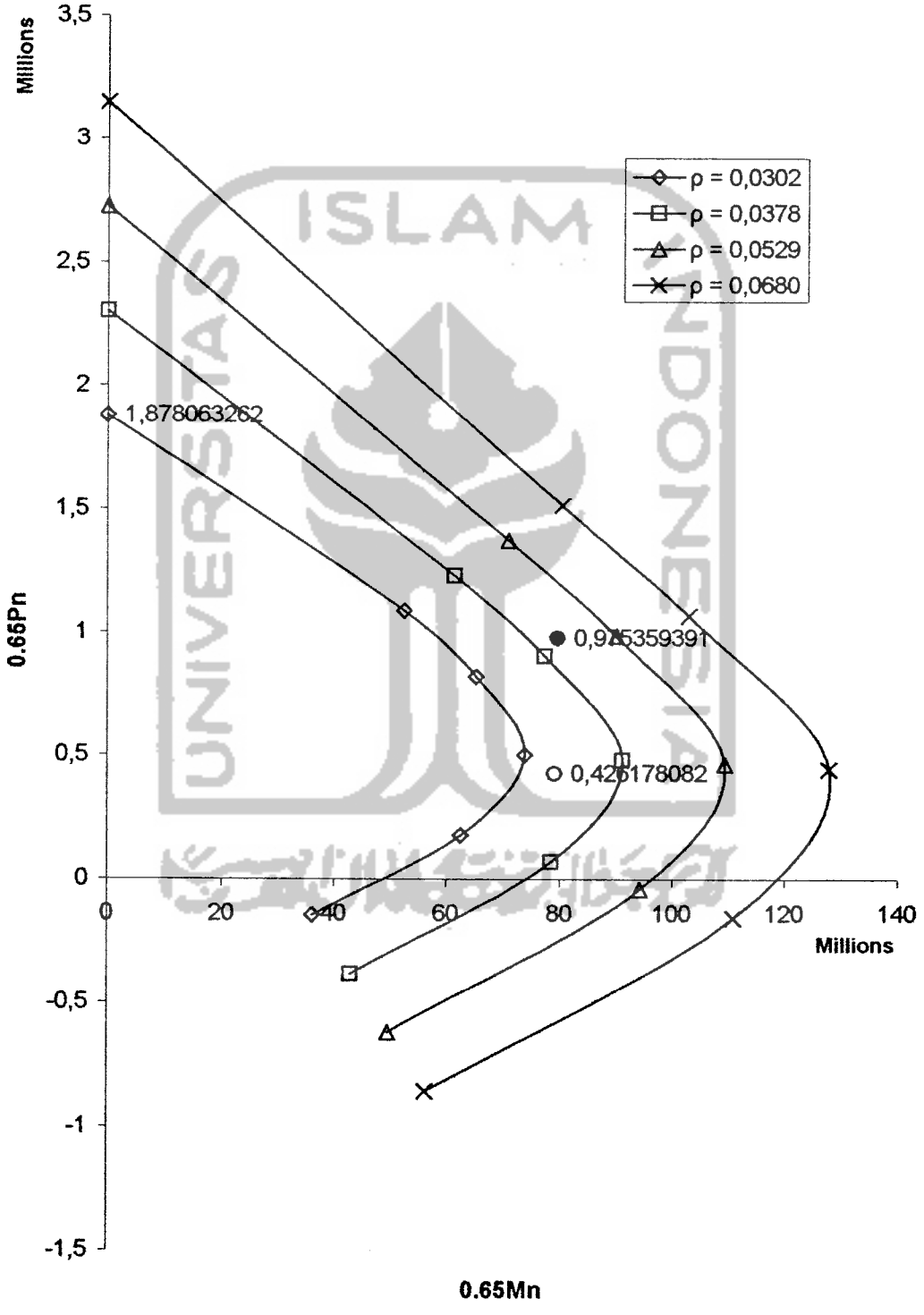
Tulangan 14D19			Kondisi	1	2	3	4	5	6
ρ = 0,0529			c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
4	1133,5	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	100,8	fsi2	600	358,20	297,75	197,00	-4,50	-390,00
2	566,77	150	fsi3	600	240,00	150,00	0,00	-300,00	-390,00
2	566,77	199,3	fsi4	600	121,80	2,25	-197,00	-390,00	-390,00
4	1133,5	248,5	fsi5	600	3,6	-145,5	-390	-390	-390
4	1133,5	51,5	Cs1	651218,73	413175,33	413175,33	413175,33	300954,87	-49308,99
2	566,77	100,8	Cs2	325609,37	188564,38	154303,13	97201,055	-17003,1	-235492,9
2	566,77	150	Cs3	325609,37	121572,17	70562,865	-14452,64	-184483,6	-235492,9
2	566,77	199,3	Cs4	325609,37	54579,951	-13177,4	-126106,3	-235492,9	-235492,9
4	1133,5	248,5	Cs5	651218,73	-24824,53	-193835,3	-470985,9	-470985,9	-470985,9
			Cc	1912500	1354687,5	1083750	812812,5	541875	270937,5
			0,65Pn	2724647,6	1370040,6	984606,08	462568,64	-42338,19	-621293,5
			0,65Mn	0	70856043	90013766	109325349	94281427	49671944

Tabel 6.18 Lanjutan

Tulangan 18D19			Kondisi	1	2	3	4	5	6
ρ =	0,0680		c	0	250	200	150	100	50
n	Asi	d	a	300	212,5	170	127,5	85	42,5
5	1416,9	51,5	fsi1	600	390,00	390,00	390,00	291,00	-18,00
2	566,77	90,9	fsi2	600	381,84	327,30	236,40	54,60	-390,00
2	566,77	130,3	fsi3	600	287,28	209,10	78,80	-181,80	-390,00
2	566,77	169,7	fsi4	600	192,72	90,90	-78,80	-390,00	-390,00
2	566,77	209,1	fsi5	600	98,16	-27,30	-236,40	-390,00	-390,00
5	1416,9	248,5	fsi6	600	3,60	-145,50	-390,00	-390,00	-390,00
5	1416,9	51,5	Cs1	814023,41	516469,16	516469,16	516469,16	376193,59	-61636,24
2	566,77	90,9	Cs2	325609,37	201962,82	171051,19	119531,79	16493,007	-235492,9
2	566,77	130,3	Cs3	325609,37	148369,05	104058,97	30208,841	-117491,4	-235492,9
2	566,77	169,7	Cs4	325609,37	94775,279	37066,758	-59114,11	-235492,9	-235492,9
2	566,77	209,1	Cs5	325609,37	41181,508	-29925,46	-148437,1	-235492,9	-235492,9
5	1416,9	248,5	Cs6	814023,41	-31030,66	-242294,2	-588732,3	-588732,3	-588732,3
			Cc	1912500	1354687,5	1083750	812812,5	541875	270937,5
			0,65Pn	3147939,8	1512169,5	1066114,7	443780,21	-157721,2	-858911,8
			0,65Mn	0	80440284	102946613	127766631	110833947	56421410

Keterangan **Tabel 6.18** Perhitungan Interaksi Kolom K5 30X25
n = jumlah tulangan pada masing-masing sisi
Asi = n .1/4. p^2. (luas total tulangan)
d = d' + [(I -1).(h - 2.d')]/(N - 1)
(Jarak tulangan terhadap serat beton tekan)
dengan : I = nomor lapis tulangan
N = banyaknya garis tulangan
c = jarak sumbu terhadap serat terluar
a = b1 . C
fsi = 0,003 . [(c - di)/c]. Es
dengan : Es = 200.000 Mpa
Cs = As .(fs - 0,85 .fc') , (gaya tekan)
0,65 .Pn = 0,65 .(SCs + Cc)
0,65 .Mn = 0,65 .Cc.(d -a/2) + SCs.(d-a')

Gambar 6.9 Grafik PnMn K5 30X30



Tabel 6.18 Perhitungan Interaksi Kolom 6K 30X50

Tulangan 10D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0327			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
3	1471,9	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	188,2	fsi2	600	349,11	317,75	277,43	223,67	148,40	35,50	-152,67	-390,00	-390,00
2	981,25	311,8	fsi3	600	184,22	132,25	65,43	-23,67	-148,40	-335,50	-390,00	-390,00	-390,00
3	1471,9	435,5	fsi4	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
3	1471,9	64,5	Cs1	845592,19	536498,44	536498,44	536498,44	536498,44	536498,44	536498,44	465848,44	275976,56	-293639,1
2	981,25	188,2	Cs2	563728,13	317543,4	286770,31	247204,91	194451,04	120595,63	9812,5	-174826	-407709,4	-407709,4
2	981,25	311,8	Cs3	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,4	-354231,3	-407709,4	-407709,4	-407709,4
3	1471,9	435,5	Cs4	845592,19	-9076,563	-115910,2	-253267,6	-436410,9	-611564,1	-611564,1	-611564,1	-611564,1	-611564,1
			Cc	3825000	2926125	2601000	2275875	1950750	1625625	1300500	975375	650250	325125
			0,65Pn	4318366,4	2552443,7	2218519,6	1849568,9	1428078,4	975335,16	572660,16	160630,57	-325491,6	-907073
			0,65Mn	0	184027004	221231929	253367939	282391367	302027192	292537786	257350317	194717680	86675830

Tulangan 14D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0458			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
4	1962,5	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	157,3	fsi2	600	390,00	364,13	330,43	285,50	222,60	128,25	-29,00	-343,50	-390,00
2	981,25	250	fsi3	600	266,67	225,00	171,43	100,00	0,00	-150,00	-390,00	-390,00	-390,00
2	981,25	342,8	fsi4	600	143,00	85,88	12,43	-85,50	-222,60	-390,00	-390,00	-390,00	-390,00
4	1962,5	435,5	fsi5	600	19,333333	-53,25	-146,5714	-271	-390	-390	-390	-390	-390
4	1962,5	64,5	Cs1	1127456,3	715331,25	715331,25	715331,25	715331,25	715331,25	715331,25	621131,25	367968,75	-391518,8
2	981,25	157,3	Cs2	563728,13	357665,63	332275,78	299211,16	255125	193404,38	100823,44	-53478,13	-362081,3	-407709,4
2	981,25	250	Cs3	563728,13	236644,79	195759,38	143192,41	73103,125	-25021,88	-172209,4	-407709,4	-407709,4	-407709,4
2	981,25	342,8	Cs4	563728,13	115296,88	59242,969	-12826,34	-108918,8	-243448,1	-407709,4	-407709,4	-407709,4	-407709,4
4	1962,5	435,5	Cs5	1127456,3	-12102,08	-154546,9	-337690,2	-581881,3	-815418,8	-815418,8	-815418,8	-815418,8	-815418,8
			Cc	3825000	2926125	2601000	2275875	1950750	1625625	1300500	975375	650250	325125
			0,65Pn	5051213	2820324,9	2436890,6	2004010,6	1497281,1	942806,72	468856,17	-57076,09	-633555	-1368211
			0,65Mn	0	214063479	256598021	295561043	333687154	362801262	354706978	312649069	233140222	99453766

Tabel 6.19 Lanjutan

Tulangan 18D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0589			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
5	2453,1	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	138,7	fsi2	600	390,00	390,00	362,23	322,60	267,12	183,90	45,20	-232,20	-390,00
2	981,25	212,9	fsi3	600	316,13	280,65	235,03	174,20	89,04	-38,70	-251,60	-390,00	-390,00
2	981,25	287,1	fsi4	600	217,20	169,35	107,83	25,80	-89,04	-261,30	-390,00	-390,00	-390,00
2	981,25	361,3	fsi5	600	118,27	58,05	-19,37	-122,60	-267,12	-390,00	-390,00	-390,00	-390,00
5	2453,1	435,5	fsi6	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
5	2453,1	64,5	Cs1	1409320,3	894164,06	894164,06	894164,06	894164,06	894164,06	894164,06	776414,06	459960,94	-489398,4
2	981,25	138,7	Cs2	563728,13	357665,63	357665,63	330414,91	291529,38	237089,63	155430	19330,625	-252868,1	-407709,4
2	981,25	212,9	Cs3	563728,13	285183,96	250365,94	205599,91	145911,88	62348,625	-62996,25	-271904,4	-407709,4	-407709,4
2	981,25	287,1	Cs4	563728,13	188105,63	141152,81	80784,911	294,375	-112392,4	-281422,5	-407709,4	-407709,4	-407709,4
2	981,25	361,3	Cs5	563728,13	91027,292	31939,688	-44030,09	-145323,1	-287133,4	-407709,4	-407709,4	-407709,4	-407709,4
5	2453,1	435,5	Cs6	1409320,3	-15127,6	-193183,6	-422112,7	-727351,6	-1019273	-1019273	-1019273	-1019273	-1019273
			Cc	3825000	2926125	2601000	2275875	1950750	1625625	1300500	975375	650250	325125
			0,65Pn	5784059,5	3072643,6	2654017,9	2158452,4	1566483,8	910278,28	376150,13	-218060	-900288,2	-1829350
			0,65Mn	0	243010235	292557261	338590234	385958375	424745855	416199019	368765503	277263144	112231702

Tulangan 22D25			Kondisi	1	2	3	4	5	6	7	8	9	10
ρ = 0,0720			c	0	450	400	350	300	250	200	150	100	50
n	Asi	d	a	500	382,5	340	297,5	255	212,5	170	127,5	85	42,5
6	2943,8	64,5	fsi1	600	390,00	390,00	390,00	390,00	390,00	390,00	342,00	213,00	-174,00
2	981,25	126,3	fsi2	600	390,00	390,00	383,43	347,33	296,80	221,00	94,67	-158,00	-390,00
2	981,25	188,2	fsi3	600	349,11	317,75	277,43	223,67	148,40	35,50	-152,67	-390,00	-390,00
2	981,25	250	fsi4	600	266,67	225,00	171,43	100,00	0,00	-150,00	-390,00	-390,00	-390,00
2	981,25	311,8	fsi5	600	184,22	132,25	65,43	-23,67	-148,40	-335,50	-390,00	-390,00	-390,00
2	981,25	373,7	fsi6	600	101,78	39,50	-40,57	-147,33	-296,80	-390,00	-390,00	-390,00	-390,00
6	2943,8	435,5	fsi7	600	19,33	-53,25	-146,57	-271,00	-390,00	-390,00	-390,00	-390,00	-390,00
6	2943,8	64,5	Cs1	1691184,4	1072996,9	1072996,9	1072996,9	1072996,9	1072996,9	1072996,9	931696,88	551953,13	-587278,1
2	981,25	126,3	Cs2	563728,13	357665,63	357665,63	351217,41	315798,96	266213,13	191834,38	67869,792	-180059,4	-407709,4
2	981,25	188,2	Cs3	563728,13	317543,4	286770,31	247204,91	194451,04	120595,63	9812,5	-174826	-407709,4	-407709,4
2	981,25	250	Cs4	563728,13	236644,79	195759,38	143192,41	73103,125	-25021,88	-172209,4	-407709,4	-407709,4	-407709,4
2	981,25	311,8	Cs5	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,4	-354231,3	-407709,4	-407709,4	-407709,4
2	981,25	373,7	Cs6	563728,13	155746,18	104748,44	39179,911	-48244,79	-170639,4	-354231,3	-407709,4	-407709,4	-407709,4
6	2943,8	435,5	Cs7	1691184,4	224542,71	41212,5	-194497,8	-508778,1	-948770,6	-1223128	-1223128	-1223128	-1223128
			Cc	3825000	2926125	2601000	2275875	1950750	1625625	1300500	975375	650250	325125
			0,65Pn	6516906,1	3540557	3097186	2583326,6	1951191	1150733,6	306373,44	-419991,4	-1190684	-2290488
			0,65Mn	0	236777618	287305490	336052676	385068390	442489832	474859997	425487968	320032156	125009637

Keterangan **Tabel 6.19** Perhitungan Interaksi Kolom 6K 30X50

n = jumlah tulangan pada masing-masing sisi

Asi = n .1/4. p^2. (luas total tulangan)

d = d' + [(I -1).(h - 2.d')]/(N - 1)

(Jarak tulangan terhadap serat beton tekan)

dengan : I = nomor lapis tulangan

N = banyaknya garis tulangan

c = jarak sumbu terhadap serat terluar

a = b1 . C

fsi = 0,003 . [(c - di)/c]. Es

dengan : Es = 200.000 Mpa

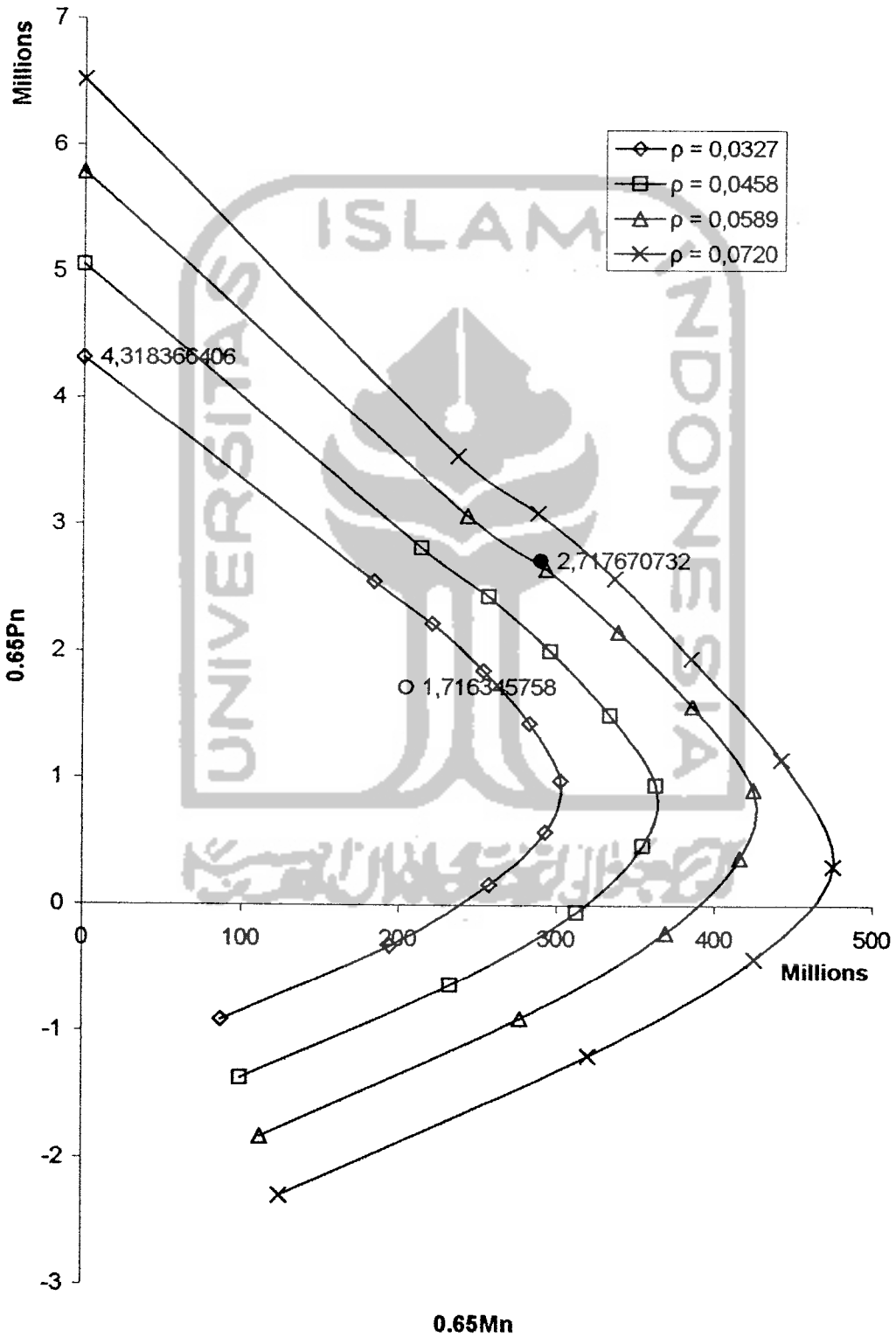
Cs = As .(fs - 0,85 .fc') , (gaya tekan)

0,65 .Pn = 0,65 .(SCs + Cc)

0,65 .Mn = 0,65 .Cc.(d -a/2) + SCs.(d-a')

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Gambar 6.10 Grafik PnMn 6K30X30



6.3.4 Perhitungan Kelangsingan Kolom dan Faktor Pembesaran Momen

Sebagai contoh perhitungan kelangsingan kolom dan pembesaran momen ditinjau pada kolom 1K50X50 bagian 1 sejajar sumbu x.

$\beta_d = 0{,}6918$

- Ukuran kolom: b = 500 mm, h = 500 mm

Gambar

$Ec = 4700.\sqrt{fc'} = 4700.\sqrt{30} = 25742{,}9602$ Nmm²

$I_k = 1/12.b.h^3 = 1/12.500.500^3 = 5{,}2.10^9$ mm⁴

$$EI_k = \frac{\left(\frac{Ec.I_k}{2{,}5}\right)}{1+\beta_d} = \frac{\left(\frac{25742{,}9602.5{,}2.10^9}{2{,}5}\right)}{1+0{,}6918} = 3.10^{13} \text{ Nmm}^2$$

$l_k = 3300$ mm (panjang kolom bagian 1)

$l_{nk} = 3300 - 700 = 2600$ mm (panjang kolom bersih bagian 1)

$l_k = 3000$ mm (panjang kolom bagian 2)

$l_{nk} = 3000 - 600 = 2400$ mm (panjang kolom bersih bagian 2)

- Ukuran balok: b = 300 mm; h = 500 mm

$I_b = 1/12.bh^3 = 1/12.300.500^3 = 3{,}1.10^9$ mm⁴

$$EI_b = EI_a = \frac{\left(\frac{Ec.I_b}{5}\right)}{1+\beta_d} = \frac{\left(\frac{25742{,}9602.3{,}1.10^9}{5}\right)}{1+0{,}6918} = 2.10^{13} \text{ Nmm}^2$$

$l_b = 4500$ mm (panjang balok sebelah kiri)

$l_{nb} = 4500 - 475 = 4025$ mm (panjang bersih balok sebelah kiri)

$l_b = 4500$ mm (panjang balok sebelah kanan)

$l_{nb} = 4500 - 475 = 4025$ mm (panjang bersih balok sebelah kanan)

kekakuan relative kolom bagian atas

$$\psi A = \frac{\Sigma\left(\frac{EI_k}{l_{n,k}}\right)}{\Sigma\left(\frac{EI_b}{l_{n,b}}\right)} = \frac{\frac{5{,}3.10^{13}}{2600} + \frac{5{,}3.10^{13}}{2400}}{\frac{2.10^{13}}{4025} + \frac{2.10^{13}}{4025}} = 2{,}0328$$

$$\psi A = \frac{\Sigma\left(\frac{EI_k}{l_{n,k}}\right)}{\Sigma\left(\frac{EI_b}{l_{n,b}}\right)} = \frac{\frac{5{,}3.10^{13}}{2600} + \frac{5{,}3.10^{13}}{2400}}{\frac{2.10^{13}}{4025} + \frac{2.10^{13}}{4025}} = 2{,}0328$$

$\psi m = (\psi A + \psi B)/2 = (2{,}0328 + 2{,}0328)/2 = 2{,}0328 > 2$

Nilai k diambil dengan rumus Furlong (Wang dan Salmon, 1987)

$k = 0{,}9.(1 + \psi m)^{1/2} = 0{,}9.(1 + 2{,}0328)^{1/2} = 1{,}567$

Cek kelangsingan kolom 1K50X50 portal bergoyang

$A = 500.500 = 2{,}5.10^5$

$r = \sqrt{(I/A)} = \sqrt{(5{,}2.10^9 / 2{,}5.10^5)} = 144{,}222$

$L = 3300$

$(k.L)/r = (1{,}567.3300)/144{,}222 = 35{,}38 > 22$ (kolom langsing)

$$P_{c,1k50X50} = \frac{\pi^2.EI_k}{(k.L)^2} = \frac{3{,}14^2.3.10^{13}.10^{-3}}{(1{,}567.3300)^2} = 36441860\,\text{KN}$$

$P_{u,1k50X50} = N_{u,k,1k50X50} = 3134941$ KN

Dengan cara yang sama dapat dihitung kelangsingan dan gaya tekuk euler untuk kolom yang lain dalam satu bagian yang sama dan dalam satu portal arah x yang sama. (Disajikan dalam Tabel 6.20).

$$\Sigma P_u = 2.3134941 + 8.3585807 + 1485521 = 36441860 \text{ KN}$$

$$\Sigma P_c = 2.18821740 + 8.17922707 + 7587827{,}5 = 1{,}89.10^8 \text{ KN}$$

$$\delta_s = \frac{1}{1 - \frac{\Sigma P_u}{\Sigma P_c}} = \frac{1}{1 - \frac{36441860}{1{,}89.10^8}} = 1{,}4230$$

Dengan cara yang sama didapat perhitungan kolom dan factor kelangsingan kolom-kolom yang lain. Disajikan pada Tabel 6.20.

Tabel 6.20 Perhitungan Kelangsingan Kolom dan Faktor Pembesaran Momen

KOLOM	Arah	Ib,a (mm^4)	Ib,b (mm^4)	Ik (mm^4)	βd	EIba (Nmm^2)	EIbb (Nmm^2)	EIk (Nmm^2)	ψA	ψB	ψM	k	kL/r	Pu (kN)	Pc (kN)	EPu (kN)	EPc (kN)	δs
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1K50X50	Sb-X	3,13E+09	3,13E+09	5,21E+09	0,6918	1,9E+13	1,9E+13	3,2E+13	2,03283	2,03283	2,03283	1,567	35,834	3134941	18821739,6	36441860	188612963	1,4230
	Sb-Y	1,29E+10	1,29E+10	5,21E+09	0,6867	9,82E+13	9,8E+13	3,2E+13	0,73623	0,73623	0,73623	1,269	29,017	3154743	28791300,8	9974668	84415919	1,2222
KB50X45	Sb-X	3,13E+09	3,13E+09	3,8E+09	0,1601	3,47E+13	3,5E+13	3,4E+13	2,38582	2,38582	2,38582	1,656	42,069	3585807	17922707	36441860	188612963	1,4230
	Sb-Y	1,29E+10	1,29E+10	4,69E+09	0,7234	9,61E+13	9,6E+13	2,8E+13	0,25299	0,25299	0,25299	1,105	25,269	3585807	33443121,7	8119126,5	70136369	1,2167
3KB45X45	Sb-X	3,13E+09	3,13E+09	3,42E+09	0,6098	2,5E+13	2,5E+13	2,2E+13	3,47269	3,47269	3,47269	1,903	48,353	1485521	7587827,5	2971041,7	15175655	1,4310
	Sb-Y	3,13E+09	3,13E+09	3,42E+09	0,6098	2,5E+13	2,5E+13	2,2E+13	2,53162	2,53162	2,53162	1,691	42,966	1504528	9609761,11	1504528,3	9609761,1	1,3173
4KB30X30	Sb-X	3,13E+09	1,33E+09	6,75E+08	0,7183	2,34E+13	1E+13	4E+12	1,03091	1,03091	1,03091	1,352	51,504	597779,8	2595825,13	1195559,5	5191650,3	1,5487
	Sb-Y	1,33E+09	1,33E+09	6,75E+08	0,7689	9,7E+12	9,7E+12	3,9E+12	0,51545	0,51545	0,51545	1,199	45,7	629273,8	3202695,36	8748400,3	73339064	1,2248
K30X25	Sb-X	2,08E+09	2,08E+09	3,91E+08	0,7699	1,52E+13	1,5E+13	2,3E+12	0,43182	0,43182	0,43182	1,171	53,534	975359,4	1943907,87	1950718,8	5831723,6	1,8051
	Sb-Y	3,13E+09	3,13E+09	5,63E+08	0,7699	2,27E+13	2,3E+13	3,3E+12	0,20509	0,20509	0,20509	1,087	41,402	947512	3250125,71	8748400,3	73339064	1,2248
6K30X50	Sb-X	0	0	1,13E+09	0,6597	0	0	7E+12	0	0	0	1	38,105	2717671	10180275,9	5435341,5	20360552	1,6969
	Sb-Y	1,29E+10	1,29E+10	3,13E+09	0,6597	9,98E+13	1E+14	1,9E+13	0,22676	0,22676	0,22676	1,095	25,036	2717671	23583191,1	6081093,6	52146351	1,2186
1K50X50	Sb-X	3,13E+09	3,13E+09	5,21E+09	0,6831	2,39E+13	2,4E+13	3,2E+13	3,57778	3,57778	3,57778	1,926	40,023	1270568	14709956,8	17906258	116084222	1,3112
	Sb-Y	1,29E+10	1,29E+10	5,21E+09	0,6671	9,93E+13	9,9E+13	3,2E+13	0,80985	0,80985	0,80985	1,291	26,829	1270568	33048554,7	4683660,4	95735819	1,0814
KB50X45	Sb-X	3,13E+09	3,13E+09	3,8E+09	0,4547	2,77E+13	2,8E+13	2,7E+13	1,9683	1,9683	1,9683	1,553	47,83	1881246	10085226,1	17906258	116084222	1,3112
	Sb-Y	1,29E+10	1,29E+10	4,69E+09	0,6671	9,93E+13	9,9E+13	2,9E+13	0,20872	0,20872	0,20872	1,088	30,15	1881246	22147006,8	4188669,3	46917864	1,1592
3KB45X45	Sb-X	3,13E+09	3,13E+09	3,42E+09	0,5122	2,66E+13	2,7E+13	2,3E+13	2,86497	2,86497	2,86497	1,769	54,482	315156,8	5982499,8	630313,56	11965000	1,0882
	Sb-Y	3,13E+09	3,13E+09	3,42E+09	0,4209	2,83E+13	2,8E+13	2,5E+13	2,08859	2,08859	2,08859	1,582	48,704	326042,1	7967062,55	326042,09	7967062,6	1,0672
4KB30X30	Sb-X	3,13E+09	3,13E+09	6,75E+08	0,6821	2,39E+13	2,4E+13	4,1E+12	0,36288	0,36288	0,36288	1,146	52,943	219574,1	2392549,18	439148,12	4785098,4	1,1644
	Sb-Y	3,13E+09	3,13E+09	6,75E+08	0,9346	2,08E+13	2,1E+13	3,6E+12	0,18144	0,18144	0,18144	1,077	49,748	219574,1	2356119,35	4408243,4	49273983	1,1596
K30X25	Sb-X	2,08E+09	2,08E+09	3,91E+08	0,461	1,84E+13	1,8E+13	2,8E+12	0,35625	0,35625	0,35625	1,144	63,398	426178,1	1600874,25	852356,16	3201748,5	1,6937
	Sb-Y	3,13E+09	3,13E+09	5,63E+08	0,461	2,75E+13	2,8E+13	4E+12	0,1692	0,1692	0,1692	1,072	49,52	426178,1	2623849,87	4408243,4	49273983	1,1596
6K30X50	Sb-X	0	0	1,13E+09	0,6594	0	0	7E+12	0	0	0	1	34,641	1583897	11949541,3	3167794,4	23899083	1,2562
	Sb-Y	1,29E+10	1,29E+10	3,13E+09	0,6734	9,89E+13	9,9E+13	1,9E+13	0,24943	0,24943	0,24943	1,104	22,943	1716346	27014859,5	3432691,5	54029719	1,1083

Keterangan Tabel 6.20 Perhitungan Kelangsingan Kolom dan Faktor Pembesaran Momen

1. Kolom yang ditinjau
2. Arah : sejajar sumbu -x dan sejajar sumbu -y
3. Ib,a = 1/12. b. h³
   (Inersia penampang balok atas)
4. Ib,b = 1/12. b. h³
   (Inersia penampang balok bawah)
5. Ik = 1/12. b. h³
   (Inersia penampang kolom)
6. bd = 1,2 .MD/(1,2 .MD + 1,6 .ML)
   (rasio perbandingan mpmen beban mati terfaktor thd momen total terfaktor)
7. EIb,a = (Ec. Ib,a / 5)/(1 + bd) , dengan Ec = 4700.√fc'
   (kekakuan batang balok atas)
8. EIb,b = (Ec. Ib,b / 5)/(1 + bd) , dengan Ec = 4700.√fc'
   (kekakuan batang balok bawah)
9. EIk = (Ec. Ik / 2,5)/(1 + bd) , dengan Ec = 4700.√fc'
   (kekakuan batang kolom)
10. ψA = S(EI,k/ln,k)/S(EI,b,a/ln,b,a)
    (faktor kekangan ujung atas)
11. ψB = S(EI,k/ln,k)/S(EI,b,b/ln,b,b)
    (faktor kekangan ujung bawah)
12. ψM = (ψA + ψB)/2
    (faktor kekangan rata - rata)
13. k = (20 - ψM)/20 . √(1 + ψM) , jika ψM < 2
    k = 0,9 . √(1 + ψM) , jika ψM ≥ 2
    (faktor panjang efektif kolom)
14. Jika k .L/r > 22, maka ada pembesaran momen (kolom langsing)
    dengan r = √(Ig/Ag)
15. Pu = Gaya aksial kolom terpakai (Tabel 6.13)
16. Pc = p² .EIk/(k.l)²
    (beban tekuk euler)
17. SPc = jumlah gaya aksial kolom terpakai dalam satu tingkat
18. SPc = jumlah beban tekuk euler kolom terpakai dalam satu tingkat
19. ds = 1/[1-SPu/(f.SPc)] , dengan f = 0,6
    (pembesaran momen)

6.3.5 Analisis Keruntuhan Kolom

Sebagai contoh analsisi keruntuhan kolom adalah kolom 1K50X50

Diketahui dari perhitungan sebelumnya :

$P_{u,x} = N_{u,x} = 3134{,}9409$ KN

$e = 149{,}5241$ mm

$M_{u,k,x} = 468{,}7492$ KNm

$\delta_{s,x} = 1{,}4692$

$M_{c,x} = \delta_{s,x} M_{u,k,x} = 1{,}4692.468{,}7492 = 688{,}68709$ KNm

$P_{u,y} = N_{u,y} = 3154{,}7426$ KN

$e = 152{,}1946$ mm

$M_{u,k,y} = 477{,}1212$

$\delta_{s,y} = 1{,}2222$

$M_{c,y} = \delta_{s,y} M_{u,k,y} = 477{,}1212.1{,}2222 = 583{,}12527$ KNm

Eksentrisitasnya adalah :

$e_x = M_{c,x} / P_{u,x} = 688{,}68709 / 3134{,}9409 = 219{,}7$ mm

$e_y = M_{c,y} / P_{u,y} = 583{,}12527 / 3154{,}7426 = 184{,}8$ mm

$e < e_b$ Terjadi keruntuhan akibat adanya gaya desak, maka :

$$P_n = \left[\frac{As'.fy}{\frac{e}{(d-d')}+0,5}\right] + \left[\frac{b.h.fc'}{\frac{3h.e}{d^2}+1,18}\right]$$

$$P_{n,x} = \left[\frac{9812,5.390}{\frac{219,7}{(435,5-64,5)}+0,5}\right] + \left[\frac{500.500.30}{\frac{3.500.219,7}{435,5^2}+1,18}\right] = 6085330,174$$

$\phi.P_{n,x} = 0,7.608533,174.10^{-3} = 4259,7311 KN > P_{u,x} = 3134,9409$ KN –aman-

$$P_{n,y} = \left[\frac{9812,5.390}{\frac{184,8}{(435,5-64,5')}+0,5}\right] + \left[\frac{500.500.30}{\frac{3.500.184,8}{435,5^2}+1,18}\right] = 6683376,284 \text{ KN}$$

$\phi.P_{n,y} = 0,7.6683376,284.10^{-3} = 4678,3634$ KN $> P_{u,y} = 3154,7426$ KN

Dari Diagram Interaksi Kolom 500 mm x 500 mm, diambil penulangan 20D25 dengan $A_{st} = 9817,477$ mm^2, jadi

$\rho_g = A_{st} / A_g = 9817,477 / 25.10^4 = 0,03925$. Jadi tulangan kolom 20D25, dengan penempatan tulangan 6D25 pada masing-masing sisi dapat dipergunakan pada kolom K50X50.

Dengan cara yang sama dapat dianalisis keruntuhan kolom yang lain, disajikan pada Tabel 6.21.

Tabel 6.21 Analisis Keruntuhan Kolom

KOLOM	Arah	δs	M,u,k - x (kN m)	Mc (kN m)	P u,k (kN)	e (mm)	Tul total	Tul sisi	ρ total	Diagram Interaksi Kolom					ϕPn≥Pu	f's>fy
										As.fy (a)	e'/(d-d') (b)	Ag.f'c (c)	(3.h.e)/(d^2) (d)	(a'/(b+0,5))+(C'/(d+1,18)) Pn	(kN)	(Mpa)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1K50X50	Sb-X	1,4692	468,7492	688,687	3134,94	219,7	20D25	6D25	0,039	4E+06	0,59213	8E+06	1,7255239	6085330,174	4259,73	532,6811
	Sb-Y	1,2222	477,1212	583,125	3154,74	184,8		6D25		4E+06	0,49822	8E+06	1,4518653	6683376,284	4678,36	538,705
KB50X45	Sb-X	1,4692	371,8749	546,359	3585,81	152,4	22D25	6D25	0,048	4E+06	0,41069	7E+06	1,196795	7462330,821	5223,63	550,593
	Sb-Y	1,2463	469,3659	584,955	3585,81	163,1		7D25		4E+06	0,4397	7E+06	1,2813378	7222075,2	5055,45	548,9493
3KB45X45	Sb-X	1,431	203,6754	291,462	1485,52	196,2	8D19	3D19	0,011	884161	0,60001	6E+06	1,7685433	2864117,433	2004,88	471,2721
	Sb-Y	1,3173	197,0116	259,521	1504,53	172,5		3D19		884161	0,5275	6E+06	1,5548356	3081835,169	2157,28	480,3662
4KB30X30	Sb-X	1,5487	72,33693	112,026	597,78	187,4	8D19	3D19	0,025	884161	0,95129	3E+06	2,7757892	1291769,537	904,239	444,4558
	Sb-Y	1,2534	99,62865	124,875	629,274	198,4		3D19		884161	1,00733	3E+06	2,9393084	1242025,6	869,418	438,2262
K30X25	Sb-X	1,8051	79,67395	143,816	975,359	147,4	10D19	3D19	0,038	1E+06	0,74847	2E+06	2,1839961	1554088,997	1087,86	492,2588
	Sb-Y	1,2534	67,55253	84,6708	947,512	89,4		4D19		1E+06	0,45361	2E+06	1,3236021	2057671,112	1440,37	518,6268
6K30X50	Sb-X	1,6969	245,767	417,049	2717,67	153,5	18D25	5D25	0,059	3E+06	0,41363	5E+06	1,1520357	5699413,302	3989,59	563,7192
	Sb-Y	1,2186	289,3032	352,555	2717,67	129,7		6D25		3E+06	0,34967	5E+06	0,9738811	6142820,754	4299,97	566,338
1K50X50	Sb-X	1,3112	225,3091	295,414	1270,57	232,5	8D25	3D25	0,016	2E+06	0,6267	8E+06	1,3785671	4289942,279	3002,96	504,5075
	Sb-Y	1,0814	67,19402	72,6631	1270,57	57,2		3D25		2E+06	0,15415	8E+06	1,4437439	5198572,497	3639	521,1981
KB50X45	Sb-X	1,3112	235,2815	308,489	1881,25	164,0	10D25	3D25	0,022	2E+06	0,442	7E+06	1,1114434	4976994,495	3483,9	525,9208
	Sb-Y	1,1592	155,9928	180,83	1881,25	96,1		4D25		2E+06	0,25909	7E+06	1,1199402	5455559,536	3818,89	532,4191
3KB45X45	Sb-X	1,0882	37,76405	41,0946	315,157	130,4	8D19	3D19	0,011	884161	0,39876	6E+06	1,7920684	3027789,117	2119,45	478,2307
	Sb-Y	1,0672	92,16248	98,3549	326,042	301,7		3D19		884161	0,92252	6E+06	1,572499	2828632,253	1980,04	469,6572
4KB30X30	Sb-X	1,1644	63,43312	73,8617	219,574	336,4	8D19	3D19	0,025	884161	1,70755	3E+06	2,0201009	1244241,233	870,969	438,5142
	Sb-Y	1,1596	66,60946	77,2406	219,574	351,8		3D19		884161	1,78566	3E+06	3,0214108	1029471,233	720,63	404,8248
K30X25	Sb-X	1,6937	79,04202	133,87	426,178	314,1	8D19	2D19	0,03	884161	1,59451	2E+06	1,9517774	1140574,772	798,402	453,1974
	Sb-Y	1,1596	33,19718	38,4956	426,178	90,3		3D19		884161	0,45852	2E+06	1,3387336	1815734,029	1271,01	507,7842
6K30X50	Sb-X	1,2562	204,7178	257,158	1583,9	162,4	10D25	3D25	0,033	2E+06	0,43762	5E+06	1,0733903	4037726,402	2826,41	548,7881
	Sb-Y	1,1083	167,8508	186,034	1716,35	108,4		4D25		2E+06	0,29216	5E+06	0,9472997	4530838,679	3171,59	554,3618

Keterangan **Tabel 6.21** Analisis Keruntuhan kolom

1. Kolom yang ditinjau
2. Arah : sejajar sumbu x dan sejajar sumbu y
3. δs = faktor pembesaran momen
4. Mu,k-x = Momen terpakai kolom (Tabel 6.10)
5. Mc = ds .Mu,k-x
6. Pu,k = Gaya aksial terpakai kolom (Tabel 6.13)
7. e = Mc/Pu (eksentrisitas)
8. Tulangan terpasang
9. Tulangan terpasang pd tiap sisi
10. r didapat dr diagram PnMn
12. e/(d-d')
13. Ag . fc' dengan Ag = b .h
14. 3.h.e/d² + 1,18
15. Pn-x = {As' .fy/[(ex/(d-d') + 0,5]} + {b.h.fc'/[(3.h.ex/d² + 1,18]}
    Pn-y = {As' .fy/[(ey/(d-d') + 0,5]} + {b.h.fc'/[(3.h.ey/d² + 1,18]}
    Jika f.Pn < Pu, jumlah tulangan harus diperbanyak
16. Kontrol f.Pn ≥ Pu, dengan f = 0,65
17. Kontrol f'sb = (600. (c -d')/c > fy
    dengan a = Pn /(0,85.fc'.b)
    c = a/b1

6.3.6 Gaya Geser Rencana Kolom

Gaya geser rencana kolom diperoleh dengan menentukan nilai terkecil dari persamaan berikut (Andriono dan Takim, 1993).

$$V_{u,k} = (M_{u,k,atas} + M_{u,k,bawah})/h_n$$

tetapi tidak boleh lebih besar dari.

$$V_{u,k,maks} = 1{,}05.(V_{D,k,x} + V_{L,K,x} + 4/k.(V_{E,k,x} + 0{,}3.V_{E,K,y}))$$

dengan harga $K = 1$

Sebagai contoh perhitungan ditinjau pada kolom 1K50X50 sejajar sumbu-x :

$M_{u,k,atas} = 402{,}7259$ KNm

$M_{u,k,bawah} = 468{,}74918$ KNm

$h_n = 2600$ mm

$V_{D,k,x} = 16{,}03592$ KN

$V_{L,k,x} = 3{,}98732$ KN

$V_{E,ka,x} = 0{,}69078$ KN

$V_{E,ka,y} = 126{,}754$ KN

$V_{u,k} = (402{,}7259 + 468{,}74918)/2600 = 439{,}3341$ KN

$V_{u,k,maks} = 1{,}05.(16{,}03592 + 3{,}98732 + 4/1.(-171{,}9195 + 0{,}3. - 6{,}18787) = 579{,}0609$ KN

Dipakai $V_{u,k} = 439{,}3341$ KN

Dengan cara yang sama dapat dihitung gaya geser rencana kolom, gaya geser kolom maksimum, dan gaya geser kolom terpakai kolom-kolom yang lain, disajikan pada Tabel 6.22. Tabel 6.23 dan Tabel 6.24

Tabel 6.22 Gaya Geser Kolom Rencana

KOLOM	Arah	M u,k - a (kN m)	M u,k - b (kN m)	Ln (mm)	V u,k (kN)
1	2	3	4	5	6
1K50X50	Sb-X	402,7259	468,7492	2600	439,3341
	Sb-Y	477,1212	425,5243		447,7262
KB50X45	Sb-X	371,8749	227,6413	2600	325,0272
	Sb-Y	469,3659	349,1491		383,9884
3KB45X45	Sb-X	179,2258	203,6754	2800	177,4403
	Sb-Y	182,7605	197,0116		176,6580
4KB30X30	Sb-X	59,9499	72,3369	2900	61,3570
	Sb-Y	99,6286	52,5324		66,1542
K30X25	Sb-X	79,6739	1,2583	2900	40,4631
	Sb-Y	67,5525	53,8163		50,2236
6K30X50	Sb-X	245,7670	48,4585	2600	166,7476
	Sb-Y	289,3032	175,0913		212,5624
1K50X50	Sb-X	225,3091	139,4267	2400	168,1433
	Sb-Y	62,1668	67,1940		99,4923
KB50X45	Sb-X	235,2815	166,5625	3300	143,8937
	Sb-Y	87,3584	155,9928		110,2741
3KB45X45	Sb-X	37,7640	16,4433	3500	29,6555
	Sb-Y	92,1625	73,1273		51,8720
4KB30X30	Sb-X	62,2301	63,4331	3600	45,7053
	Sb-Y	66,6095	62,9772		46,4682
K30X25	Sb-X	79,0420	57,6325	3600	43,2779
	Sb-Y	33,1972	30,5558		29,0987
6K30X50	Sb-X	204,7178	128,3263	2400	164,8197
	Sb-Y	40,5600	167,8508		128,4683

Keterangan **Tabel 6.22** Gaya Geser Kolom Rencana

1. Kolom yang ditinjau
2. Arah : sejajar sumbu -x dan sejajar sumbu - y
3. Mu,k -a = Momen terpakai kolom atas
4. Mu,k-b = Momen terpakai kolom bawah
5. Ln = tinggi bersih kolom
6. Vu,k-x = (Mu,k,x-a + Mu,k,x-b)/Ln
   + 0,3.(Mu,k,y-a + Mu,k,y-b)/ln
   Vu,k-y = (Mu,k,y-a + Mu,k,y-b)/Ln
   + 0,3.(Mu,k,x-a + Mu,k,x-b)/ln

(Gaya geser rencana kolom)

Tabel 6.23 Gaya Geser kolom Maksimum

ELEMEN		h	Ln	LOC	Sejajar Sumbu-y				Sejajar Sumbu-X				Akibat Gempa Kanan		Akibat Gemap Kiri	
		(mm)	(mm)	(mm)	VD (kN)	VL (kN)	Vexka (kN)	Vexki (kN)	VD (kN)	VL (kN)	Vexka (kN)	Vexki (kN)	Vu-x (kN)	Vu-y (kN)	Vu-x (kN)	Vu-y (kN)
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
1K50X50	atas	3300	2600	350	35,89456	7,74713	-6,18787	126,754	16,03592	3,98732	-171,92	0,69078	579,060873	183,635693	-196,78387	-708,8343
	bawah			3650	35,89456	7,74713	-6,18787	126,754	16,03592	3,98732	-171,92	0,69078	579,060873	183,635693	-196,78387	-708,8343
KB50X45	atas	3300	2600	350	74,15201	22,61013	0,50971	77,7219	0,1101	-0,68397	75,8697	-0,77915	427,050498	94,0546005	199,336851	318,692411
	bawah			2950	74,15201	22,61013	0,50971	77,7219	0,1101	-0,68397	75,8697	-0,77915	427,050498	94,0546005	199,336851	318,692411
3KB45X45	atas	3300	2800	350	4,30672	5,0016	-0,02648	50,4144	-1,90393	-0,43851	115,6616	-0,3254	221,104212	59,695902	155,396073	483,285583
	bawah			2950	4,30672	5,0016	-0,02648	50,4144	-1,90393	-0,43851	115,6616	-0,3254	221,104212	59,695902	155,396073	483,285583
4KB30X30	atas	3300	2900	250	2,54778	-0,13124	-1,11579	15,05073	0,13205	0,77065	-14,6881	0,61503	66,5253708	22,4948808	-20,655944	-62,148038
	bawah			3800	2,54778	-0,13124	-1,11579	15,05073	0,13205	0,77065	-14,6881	0,61503	66,5253708	22,4948808	-20,655944	-62,148038
K30X25	atas	3300	2900	250	-0,55571	0,1919	-0,30534	10,02185	0,68732	0,29278	-21,4871	0,15378	41,9035323	14,302512	-28,738149	-89,601359
	bawah			3050	-0,55571	0,1919	-0,30534	10,02185	0,68732	0,29278	-21,4871	0,15378	41,9035323	14,302512	-28,738149	-89,601359
6K30X50	atas	3300	2600	350	6,76146	2,22695	-1,56257	38,98008	6,04862	2,12139	-46,1885	-0,14383	172,972941	57,0893253	-55,322461	-187,38199
	bawah			3650	6,76146	2,22695	-1,56257	38,98008	6,04862	2,12139	-46,1885	-0,14383	172,972941	57,0893253	-55,322461	-187,38199
1K50X50	atas	3000	2400	350	38,19417	7,13345	-3,52027	47,99764	11,02191	3,94963	-91,1078	0,30301	249,565882	77,4697854	-81,986961	-371,36818
	bawah			3650	38,19417	7,13345	-3,52027	47,99764	11,02191	3,94963	-91,1078	0,30301	249,565882	77,4697854	-81,986961	-371,36818
KB50X45	atas	4000	3300	350	17,19057	4,93265	-1,6319	78,73174	0,68768	-0,08503	-75,6672	0,68761	354,769078	102,722737	-78,965309	-319,22578
	bawah			2950	17,19057	4,93265	-1,6319	78,73174	0,68768	-0,08503	-75,6672	0,68761	354,769078	102,722737	-78,965309	-319,22578
3KB45X45	atas	4000	3500	200	2,15566	0,29782	-5,63825	18,09912	16,1201	4,10012	-14,7127	3,1152	82,51761	57,1199622	-39,64246	-47,666178
	bawah			3250	2,15566	0,29782	-5,63825	18,09912	16,1201	4,10012	-14,7127	3,1152	82,51761	57,1199622	-39,64246	-47,666178
4KB30X30	atas	4000	3600	200	21,74247	0,15648	0,11844	-10,2666	-54,067	-1,59315	2,05178	0,0506	-20,062151	-71,166568	26,0765883	-49,676437
	bawah			950	21,74246	0,15648	0,11844	-10,2666	-54,067	-1,59315	2,05178	0,0506	-20,062161	-71,166568	26,0765778	-49,676437
K30X25	atas	4000	3600	250	3,71401	0,93716	-0,52345	10,49285	1,86971	0,68683	-9,71911	0,78655	49,9447515	19,208868	-9,5608401	-38,795442
	bawah			3750	3,71401	0,93716	-0,52345	10,49285	1,86971	0,68683	-9,71911	0,78655	49,9447515	19,208868	-9,5608401	-38,795442
6K30X50	atas	3000	2400	350	12,96422	4,9797	1,41904	29,38788	19,37479	0,21493	-24,0602	-1,05312	140,943281	53,1748308	-5,514705	-78,695434
	bawah			2750	12,96422	4,9797	1,41904	29,38788	19,37479	0,21493	-24,0602	-1,05312	140,943281	53,1748308	-5,514705	-78,695434

Keterangan Tabel 6.23 Gaya Geser Kolom Maksimum

1. Kolom yang ditinjau
2. Lokasi bentang kolom yang ditinjau
3. VD = gaya geser kolom akibta beban mati sejajar sb -y
4. VL = gaya geser kolom akibta beban hidup sejajar sb -y
5. Veka = gaya geser kolom akibat beban gempa kanan sejajar sb -y
6. Vd = gaya geser kolom akibat beban gempa kiri sejajar sb -y
7. VD = gaya geser kolom akibat beban mati sejajar sb -x
8. VL = gaya geser kolom akibat beban hidup sejajar sb -x
9. Veka = gaya geser kolom akibat beban gempa kanan sejajar sb -y
10. Veki = gaya geser kolom akibat beban gempa kiri sejajar sb -y
11. Vu-x =1,05[VD-x + VL-x + 4/k (Neka-x + 0,3. Neka-y)] dengan k = 1
    (gaya geser maksimum akibat gempa kanan sb - x)
12. Vu-y =1,05[VD-y + VL-y + 4/k (Neka-y + 0,3. Neka-x)] dengan k = 1
    (gaya geser maksimum akibat gempa kanan sb - y)
13. Vu-x =1,05[VD-x + VL-x + 4/k (Neki-x + 0,3. Neka-y)] dengan k = 1
    (gaya geser maksimum akibat gempa kiri sb - x)
14. Vu-y =1,05[VD-y + VL-y + 4/k (Neki-y + 0,3. Neki-x)] dengan k = 1
    (gaya geser maksimum akibat gempa kiri sb - y)

Tabel 6.24 Gaya Geser Kolom Terpakai

KOLOM	Arah	V u,k Rencana (kN)	V u,k Maksimum (kN)	V u,k Terpakai (kN)
1	2	3	4	5
1K50X50	Sb-X	439,3341299	579,0609	439,3341
	Sb-Y	447,7261688	708,8343	447,7262
KB50X45	Sb-X	325,0271832	427,0505	325,0272
	Sb-Y	383,9884049	318,6924	318,6924
3KB45X45	Sb-X	177,4402972	221,1042	177,4403
	Sb-Y	176,6580172	483,2856	176,6580
4KB30X30	Sb-X	61,35695146	66,5254	61,3570
	Sb-Y	66,15417856	62,1480	62,1480
K30X25	Sb-X	40,46305981	41,9035	40,4631
	Sb-Y	50,2236067	89,6014	50,2236
6K30X50	Sb-X	166,7476417	172,9729	166,7476
	Sb-Y	212,5623701	187,3820	187,3820
1K50X50	Sb-X	168,1433447	249,5659	168,1433
	Sb-Y	99,49232392	371,3682	99,4923
KB50X45	Sb-X	143,8937362	354,7691	143,8937
	Sb-Y	110,2740508	319,2258	110,2741
3KB45X45	Sb-X	29,65551617	82,5176	29,6555
	Sb-Y	51,87198748	57,1200	51,8720
4KB30X30	Sb-X	45,70534114	26,0766	26,0766
	Sb-Y	46,46822972	71,1666	46,4682
K30X25	Sb-X	43,27790599	49,9448	43,2779
	Sb-Y	29,09872173	38,7954	29,0987
6K30X50	Sb-X	164,8197401	140,9433	140,9433
	Sb-Y	128,4683429	78,6954	78,6954

Keterangan **Tabel 6.24** Gaya Geser Kolom Terpakai

1. Kolom yang ditinjau
2. Arah : sejajar sumbu - dan sejajar sumbu - y
3. Vu,k rencana (Tabel 6.22)
4. Vu,k maksimum (Tabel 6.23)
5. Vu,k terpakai pilih yang terkecil

6.3.7 Penulangan Geser Kolom

Sebagai contoh perhitungan geser kolom ditinjau pada kolom 1K50X50, adalah sebagai berikut ini (Kusuma dan Andriono, 1993)

- Penulangan geser sepanjang *lo*

Syarat panjang *lo* dari muka balok (SK-SNI T-15-1991-03) :

- $l_o \geq h = 500$ mm, bila $N_{u,k} \leq 0{,}3.A_g.fc'$

- $l_o \geq 1{,}5.h = 1{,}5.500 = 750$ mm, bila $N_{u,k} > 0{,}3.A_g.fc'$

- $l_o \geq 1/6$ bentang bersih kolom = 1/6.3300 = 550 mm

- $l_o \geq 450$ mm

($N_{u,k} = 3154{,}7426$ KN) > (0,3.500.500.30) = 2250 KN, dipakai $l_o = 750$ mm

$V_{u,k} = 447{,}7262$ KN

$V_{u,k,terpakai} = (h_n\, 0{,}5 - d)V_{u,k} / (0{,}5.h_n)$

$V_{u,k,terpakai} = (3300.0{,}5 - 435{,}5)447{,}7262 / (0{,}5.3300) = 297{,}7379$ KN

$V_{s,k} = V_{u,k,terpakai} / 0{,}6 - V_c = 297{,}7379 / 0{,}6 - 0 = 496{,}22984$ KN

$S = (A_v.fy.d) / V_{s,k} = (4.0{,}25.\pi.12^2.240.435{,}5) / 496{,}22984 = 95{,}2376$ mm

Jarak maksimum tulangan geser pada daerah l_o (SK-SNI T-15-1991-03)

- ¼.*b* = ¼.500 = 125 mm

- 8 kali diameter tulangan longitudinal = 8.25 = 200 mm

- 100 mm

dipakai **4P12 – 95**

Cek tulangan geser,

$$V_{s,k} = (A_v.fy.d)/S = (4.0{,}25.\pi.12^2.240.435{,}5)/95.10^{-3} = 497{,}4712$$

$$(0{,}6.V_{s,k} = 0{,}6.497{,}4712 = 298{,}983 \text{ KN}) \geq (V_{u,k,terpakai} = 297{,}7379 \text{ KN})$$ - aman-

- Penulangan geser daerah diluar *lo*

$$V_{u,k,terpakai} = (h_n.0{,}5 - l_o)V_{u,k}/(0{,}5.h_n)$$

$$V_{u,k,terpakai} = (3300.0{,}5 - 750).447{,}7262/(0{,}5.3300) = 189{,}4226 \text{ KN}$$

$$V_c = \left[1 + \frac{N_{u,k}}{14.A_g}\right].\frac{1}{6}.\sqrt{fc'}.b.d = \left[1 + \frac{3154{,}7426}{14.500.500}\right].\frac{1}{6}.\sqrt{30}.500.64{,}5 = 179{,}368 \text{ KN}$$

$$V_{s,k} = V_{u,k}/0{,}6 - V_c = 189{,}4226/0{,}6 - 179{,}368 = 136{,}3363 \text{ KN}$$

$$S = (A_v.fy.d)/V_{s,k} = (2.0{,}25.\pi.12^2.240.435{,}5)/136{,}3363 = 173{,}3205 \text{ mm}$$

dipakai **2P12 – 150**

Cek tulangan geser kolom

$$V_{s,k} = (A_v.fy.d).S = (2.0{,}25.\pi.12^2.240.435{,}5)/100.10^{-3} = 157{,}5325 \text{ KN}$$

$$0{,}6.(V_{s,k} + V_c) = 0{,}6.(157{,}5325 + 179{,}368) = 202{,}1403 \text{ KN} \geq V_{u,k} = 189{,}4226 \text{ KN}$$ -aman-

Dengan cara yang sama didapat penulangan geser kolom lainnya yang disajikan dalam Tabel 6.25.

Tabel 6.25 Penulangan Geser Kolom

ELEMEN	l (mm)	Ln (mm)	b (mm)	h (mm)	N *u*,k (kN)	0,3 Ag.fc (kN)	Lokasi	Jarak	V u,k (kN)	Vc (kN)	Vs (kN)	S (mm)	Tul Geser Terpakai	Vs terjadi (kN)	V u,k ≤ 0,6(Vc+Vs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1K50X50	3300	2600	500	500	3154,7426	2250	Pada lo	0 - 750	297,7379	0	496,22984	95,237649	4P12 - 95	497,4712	aman
							Luar lo	sisa	189,4226	179,368	136,33634	173,32049	2P12 - 150	157,5325	aman
KB50X45	3300	2600	450	500	3585,8072	2025	Pada lo	0 - 750	216,1431	0	360,23846	98,392665	3P12 - 95	497,4712	aman
							Luar lo	sisa	137,5115	203,8298	25,355988	465,96255	1P12 - 200	59,0747	aman
3KB45X45	3300	2800	450	450	1504,5283	1822,5	Pada lo	0 - 450	128,2006	0	213,66769	98,656465	2P12 - 95	221,8916	aman
							Luar lo	sisa	120,4059	84,85507	115,82146	182,00167	2P12 - 150	140,5313	aman
4KB30X30	3300	2900	300	300	629,27378	810	Pada lo	0 - 300	51,4972	0	85,828584	157,09698	2P12 - 150	89,88941	aman
							Luar lo	sisa	49,2898	34,05609	48,093612	280,35763	2P12 - 200	67,41706	aman
K30X25	3300	2900	250	300	975,35939	675	Pada lo	0 - 450	41,6163	0	69,360533	97,198008	1P12 - 95	70,96532	aman
							Luar lo	sisa	34,6370	52,73737	4,9909185	1350,7946	1P12 - 200	33,70853	aman
6K30X50	3300	2600	300	500	2717,6707	1350	Pada lo	0 - 750	124,6090	0	207,6817	113,77931	2P12 - 100	236,2988	aman
							Luar lo	sisa	79,2770	154,4656	-22,33728	-528,9337	1P12 - 200	59,0747	aman
1K50X50	3000	2400	500	500	1270,5683	2250	Pada lo	0 - 500	107,1213	0	178,53554	132,35394	2P12 - 125	189,0391	aman
							Luar lo	sisa	98,0836	72,35894	91,113755	129,67242	1P12 - 125	94,51953	aman
KB50X45	4000	3300	450	500	1881,2456	2025	Pada lo	0 - 500	105,9145	0	176,52418	133,86201	2P12 - 125	189,0391	aman
							Luar lo	sisa	100,2896	107,0216	60,127653	196,49762	1P12 - 150	78,76627	aman
3KB45X45	4000	3500	450	450	326,04209	1822,5	Pada lo	0 - 450	40,3564	0	67,260677	156,70151	1P12 - 150	70,26566	aman
							Luar lo	sisa	38,5335	18,51371	45,70875	230,58713	1P12 - 200	52,69925	aman
4KB30X30	4000	3600	300	300	219,57406	810	Pada lo	0 - 300	40,0530	0	66,755054	100,99169	1P12 - 100	67,41706	aman
							Luar lo	sisa	38,7235	11,92759	52,611623	128,14099	1P12 - 125	53,93364	aman
K30X25	4000	3600	250	300	426,17808	675	Pada lo	0 - 300	37,3032	0	62,171918	108,43651	1P12 - 100	67,41706	aman
							Luar lo	sisa	36,0649	23,07524	37,03296	182,04609	1P12 - 150	44,9447	aman
6K30X50	3000	2400	300	500	1716,3458	1350	Pada lo	0 - 750	89,7926	0	149,65436	157,89638	2P12 - 150	157,5325	aman
							Luar lo	sisa	52,8537	97,59674	-9,507193	-1242,737	1P12 - 200	59,0747	aman

Keterangan Tabel 6.25 Penulangan Geser Kolom

1. Kolom yang ditinjau
2. l = panjang kolom
3. ln = panjang bersih kolom
4. b = lebar penampang kolom
5. h = tinggi penampang kolom
6. Nu,k = gaya aksial terpakai kolom (Tabel 6.13)
7. 0,3.Ag.fc' dengan Ag = b .h, fc' = 30 Mpa
8. Daerah penulangan geser
9. Jarak penulangan geser dariu muka kolom
   lo = h, bila Nu,k < 0,3.Ag.fc'
   lo =1,5 .h, bila Nu,k > 0,3.Ag.fc'
10. Vu,k = gaya geser terpakai kolom (Tabel 6.24)
11. Vc = {1 + Nu,k/(14 .Ag)}.(1/6).(fc'^0,5 .b .d)
    (gaya geser kolom)
12. Vs = Vu,k/0,6 - Vc
    (gaya geser tulangan)
13. S = (Av .fy . d)/Vs (jarak tulangan)

dengan : fy = 240 Mpa
diameter sengkang = 12 mm

14. Tulangan geser kolom terpasang
15. Vs terjadi = (Av .fy .d)/s

dengan : s = jarak terpasang

16. Kontrol Vu,k < 0,6.(Vs+Vc), maka aman

6.4 Desain Pertemuan Balok Kolom

Perencanaan pertemuan balok kolom (joint) didasarkan dengan memperhitungkan kebutuhan penulangan geser arah horizontal dan vertical. Sebagai contoh perhitungan ditinjau pada pertemuan balok kolom 1K50X50, (Andriono dan Kusuma, 1993).

1. Penulangan Geser Horizontal

Diketahui :

$M_{nak,b,ki,x}$ = 302,42 KNm

$M_{nak,b,ka,x}$ = 302,42 KNm

$M_{nak,b,ki,y}$ = 0 KNm

$M_{nak,b,ka,y}$ = 679,249 KNm

Ditinjau terhadap sumbu – x.

Dihitung 100% dalam satu arah sumbu x dan 30% dalam arah tegak lurusnya yaitu sumbu y.

$$V_{kol-x} = \frac{0,7.1,25.\left[\left(\frac{l_{ki,x}}{l_{nki,x}}M_{nak,b,ki,x} + \frac{l_{ka,x}}{l_{nka,x}}M_{nak,b,ka,x}\right) + 0,3\left(\frac{l_{ki,y}}{l_{nki,y}}M_{nak,b,ki,y} + \frac{l_{ka,y}}{l_{nka,y}}M_{nak,b,ka,y}\right)\right]}{\frac{1}{2}\left(h_{k,a} + h_{k,b}\right)}$$

$$V_{kol-x} = \frac{0,7.1,25.\left[\left(\frac{4,5}{4,025}302,42 + \frac{4,5}{4,025}302,42\right) + 0,3\left(\frac{0}{0}0 + \frac{4,25}{3,75}679,249\right)\right]}{\frac{1}{2}\left(3,3 + 3,3\right)} = 240,537 \text{ kN}$$

$$C_{ki,x} = 0,7.1,25.\left(M_{nak,b,ki,x} + 0,3.M_{nak,b,ki,y}\right)/Z_{ki}$$

$$C_{ki,x} = 0,7.1,25.\left(302,42 + 0,3.0\right)/0,6275 = 337,361 \text{ KN}$$

$$T_{ka,x} = 0,7.1,25.\left(M_{nak,b,ka,x} + 0,3.M_{nak,b,ka,y}\right)/Z_{ki}$$

$T_{ka,x} = 0,7.1,25.(302,42 + 0,3.679,249)/0,6275 = 564,6793$ KN

$V_{j.h.x} = C_{ki} + T_{ka} - V_{kol}$

$V_{j.h.x} = 337,361 + 564,6793 - 240,5357 = 661,5046$ KN

Kontrol tegangan horizontal minimal

$V_{j.h.x} = V_{j.h.x}/(b.h) < 1,5.\sqrt{fc'}$

$V_{j.h.x} = 661,5046/(0,5.0,5).10^{-3} < 1,5.\sqrt{30}$

2,646 N/mm^2 < 8,216 N/mm^2

Penulangan geser horizontal

$N_{u,k} = 3154,743$ KN

$V_{c,h} = 2/3.\sqrt{N_{u,k}/A_g - 0,1.fc'b.h}$

$V_{c,h} = 2/3.\sqrt{3154,743/(500.500) - 0,1.30.500.500} = 516,9077$ KN

$V_{s,h} + V_{c,h} = V_{j.h}$

$V_{s,h} = 661,5046 - 516,9077 = 144,5968$

$A_{j,h} = V_{s,h}/fy = 144,5968.10^3/240 = 602,4898$ mm^2

digunakan sengkang rangkap 4P12

luas yang tersedia = 4.0,25.12^2.π = 452,16 mm^2

jumlah lapis sengkang = 602,4898/452,15 = 1,332 = **2 lapis**

2. Penulangan Geser Vertikal

$$V_{c,v} = \frac{A_s'}{A_s}.V_{j,h}.\left[0,6 + \frac{N_{u,k}}{A_g.fc'}\right]$$

$$V_{c,v} = 661{,}5046.\left[0{,}6 + \frac{3154{,}743}{500.500.30}\right] = 67{,}5153 \text{ KN}$$

$$V_{s,v} + V_{c,v} = V_{j,v}$$

$$V_{s,v} = 661{,}5046 - 67{,}5153 = 593{,}9893 \text{ KN}$$

$$A_{j,v} = V_{s,v} / fy = 593{,}9893 / 390 = 1523{,}049 \text{ mm}^2$$

Tulangan pokok terpasang 6D25 = 2943,75 mm² > $A_{j,v}$ = 1523,049 mm²

Tulangan pokok kolom dapat menahan geser vertical.

Dengan cara yang sama didapat penulangan geser horizontal dan vertical pada pertemuan balok kolom, yang disajikan pada Tabel 6.26.

Tabel 6.26 Penulangan Geser Horizontal dan Vertikal pada Pertemuan Balok Kolom

KOLOM	Letak	b	h	l	V kol	C ki	T ka	V j,h	N u,k	Penulangan Geser Vertikal					Penulangan Geser Horizontal				
										V cv	V sv	A jv		As ≥ A jv	V ch	V sh	A jh	Tul	Lap
		(mm)	(mm)	(m)						(kN)	(kN)	(mm^2)	(mm^2)	(mm^2)	(kN)	(kN)	(mm^2)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1K50X50	Sb-X	500	500	3,3	240,5357	337,361	564,6793	661,5046		67,5153	593,9893	1523,049	6D25	2943,75	516,9077	144,5968	602,4868		2
	Sb-Y				257,9079	101,2083	858,9363	702,2367	3154,743	71,67255	630,5641	1616,831	6D25	2943,75	516,9077	185,3289	772,2038	4P12	2
KB50X45	Sb-X	450	500	3,3	162,5437	47,39909	564,6793	449,5348		50,85276	398,682	1022,262	6D25	2943,75	539,519	-89,9842	-374,934		1
	Sb-Y				271,5519	157,997	858,9363	745,3814	3585,807	84,31983	661,0615	1695,03	7D25	3434,375	539,519	205,8624	857,7599	3P12	3
3KB45X45	Sb-X	450	450	3,3	110,8858	0	438,5692	327,6834		27,77638	299,907	768,9924	3D19	850,155	284,1347	43,54868	181,4528		1
	Sb-Y				109,6744	0	438,5692	328,8948	1504,528	27,87906	301,0158	771,8353	3D19	850,155	284,1347	44,76009	186,5004	2P12	1
4KB30X30	Sb-X	300	300	3,3	53,64886	0	205,3961	151,7472		12,64152	139,1057	356,6812	3D19	850,155	119,8789	31,8683	132,7846		2
	Sb-Y				374,7373	0	205,3961	-169,341	629,2738	-14,1072	-155,234	-398,036	3D19	850,155	119,8789	-289,22	-1205,08	P12	1
K30X25	Sb-X	250	300	3,3	52,71466	205,3961	0	152,6814		15,77952	136,9019	351,0305	3D19	850,155	158,1518	-5,47036	-22,7932		1
	Sb-Y				55,80563	205,3961	0	149,5904	975,3594	15,46007	134,1304	343,924	4D19	1133,54	158,1518	-8,56133	-35,6722	P12	1
6K30X50	Sb-X	300	500	3,3	119,2896	227,3184	227,3184	335,3472		40,37335	294,9738	756,3432	5D25	2453,125	388,8162	-53,469	-222,788		1
	Sb-Y				397,632	757,728	757,728	1117,824	2717,671	134,5778	983,2461	2521,144	6D25	2943,75	388,8162	729,0077	3037,532	4P12	7
1K50X50	Sb-X	500	500	3	117,1999	207,4499	190,8734	281,1234		21,62989	259,4935	665,3679	3D25	1471,875	240,5014	40,62197	169,2582		1
	Sb-Y				206,7238	62,23496	636,2448	491,7559	1270,568	37,83615	453,9198	1163,897	3D25	1471,875	240,5014	251,2545	1046,894	4P12	3
KB50X45	Sb-X	450	500	4	102,9933	69,42048	398,3233	364,7505		32,05074	332,6997	853,0763	3D25	1471,875	347,3105	17,44	72,66668		1
	Sb-Y				206,2057	231,4016	698,4797	723,6757	1881,246	63,5896	660,0861	1692,528	4D25	1962,5	347,3105	376,3652	1568,188	3P12	5
3KB45X45	Sb-X	450	450	4	56,25335	0	269,6848	213,4315		13,95137	199,4801	511,4875	3D19	850,155	0	213,4315	889,2979		4
	Sb-Y				55,63879	0	269,6848	214,0461	326,0421	13,99154	200,0545	512,9603	3D19	850,155	0	214,0461	891,8586	2P12	4
4KB30X30	Sb-X	300	300	4	64,82344	0	300,8221	235,9986		16,07915	219,9195	563,8961	3D19	850,155	0	235,9986	983,3276		5
	Sb-Y				548,8384	0	300,8221	-248,016	219,5741	-16,8979	-231,118	-592,611	3D19	850,155	0	-248,016	-1033,4	2P12	1
K30X25	Sb-X	250	300	4	46,48713	218,2608	0	171,7736		13,56003	158,2136	405,676	2D19	566,77	81,88978	89,88387	374,5161		2
	Sb-Y				57,26561	254,2576	0	196,992	426,1781	15,5508	181,4412	465,2339	3D19	850,155	81,88978	115,1022	479,5926	2P12	3
6K30X50	Sb-X	300	500	3	110,1809	190,8734	190,8734	271,566		26,65176	244,9142	627,9852	3D25	1471,875	290,5564	-18,9904	-79,1269		1
	Sb-Y				367,2695	636,2448	636,2448	905,22	1716,346	88,83921	816,3808	2093,284	4D25	1962,5	290,5564	614,6636	2561,098	4P12	6

Keterangan Tabel 6.26 Penulangan Geser Horizontal dan Vertikal pada Pertemuan Balok Kolom

1. Kolom yang ditinjau
2. Arah : sejajar sumbu x dan sejajar sumbu y
3. b = lebar penampang kolom
4. h = tinggi penampang kolom
5. l = panjang kolom
6. V kol = 0,7 .1,25.[(lki-x/lnki-x .Mnak,b,ki-x + lka-x/lnka .Mnak,b,ka-x) + 0,3 .(lki-y/lnki-y .Mnak,b,ki-y + lka-y/lnka-y .Mnak,b,ka-y)]/[1/2 .(hk,a + hk,b)]
   (Tegangan geser kolom)
7. C ki = 0,7 .1,25 .(Mnak,bki-x + 0,3 .Mnak,b,ki-y)/Zki
   (Gaya tekan join)
8. T ka = 0,7 .1,25 .(Mnak,b,ka-x + 0,3 .Mnak,b,ka-y)/Zka
   (Gaya tarik join)
9. V j,h = Cki + Tka + Vkol
   (Tegangan geser hirizontal nominal joint)
10. Nu,k = Gaya aksial kolom terpakai (Tabel 6.13)
11. V cv = As'/As .Vj,h .[0,6 + Nu,k/(Ag.fc')]
    (Gaya geser beton join vertikal)
12. V sv = Vj,h - Vc,v
    (Gaya geser tulangan join vertikal)
13. A jv = Vs,v/fy
    (Luas tulangan join vertikal)
14. Tulangan terpasang
15. Asv = 1/4 .p .f² ≥ Ajv , kontrol
16. V ch = 2/3 .√[(Nu,k/Ag) - 0,1 .fc'] .bj .hc
    (Gaya geser beton join horizantal)
17. V sh = Vj,h - Vc,h
    (Gaya geser tulangan join horizontal)
18. A jh = Vs,h/fy
    (Luas tulangan join horizontal)
19. Tulangan terpasang
20. Jumlah lapisan sengkang = Aj,h/luas yg teraedia

BAB VII

KESIMPULAN

Berdasarkan hasil perhitungan redesain struktur gedung kampus D3 Ekonomi Universitas Islam Indonesia, dengan menggunakan program komputer SAP 2000 dan hitungan manual, penyusun dapat mengambil kesimpulan sebagai berikut :

1. Dengan SAP 2000 didapat profil baja yang lebih besar dari pada hitungan manual dikarenakan SAP 2000 memperhitungkan rasio panjang tanpa penguat l dan faktor panjang efektif k yang menyebabkan $k.l/r > 200$ batang langsing,.
2. Perencanaan balok dengan menggunakan dimensi yang sama diperoleh luasan tulangan lentur yang sama antara desain SAP 2000 dengan desain manual.
3. Perencanaan kolom dengan menggunakan dimensi yang sama, luasan tulangan yang dibutuhkan untuk menahan gaya aksial dan lentur pada SAP 2000 diperoleh lebih kecil dari hitungan manual.

4. Untuk perencanaan tulangan geser, baik balok maupun kolom dengan menggunakan dimensi yang sama, luasan tulangan yang diperlukan untuk tulangan geser, pada SAP 200 diproleh lebih kecil dari pada hitungan manual, dikarenakan pada hitungan manual dipakai tingkat daktilitas penuh.

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Diagram Alir Perencanaan Struktur Portal
Dengan SAP 2000

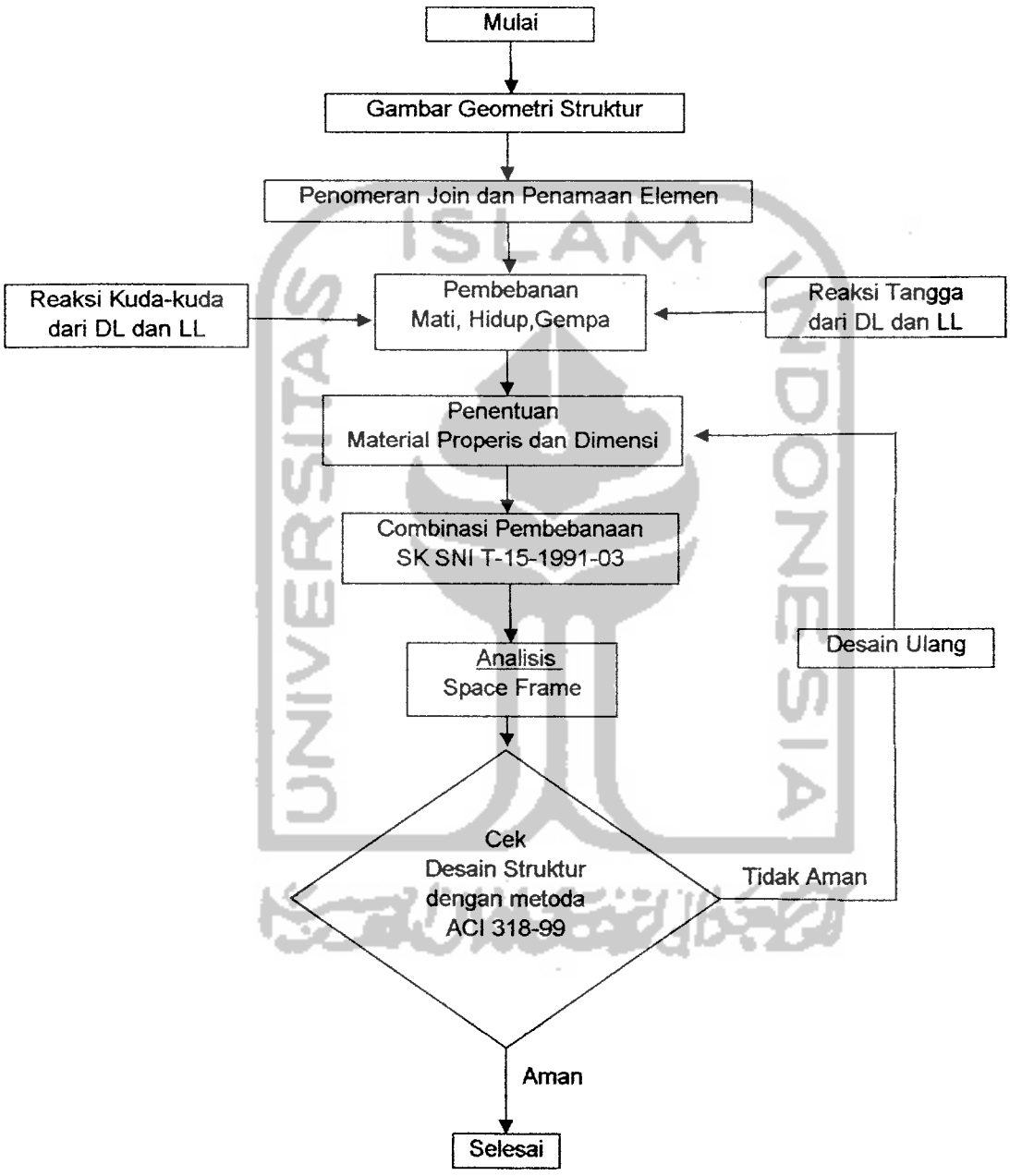
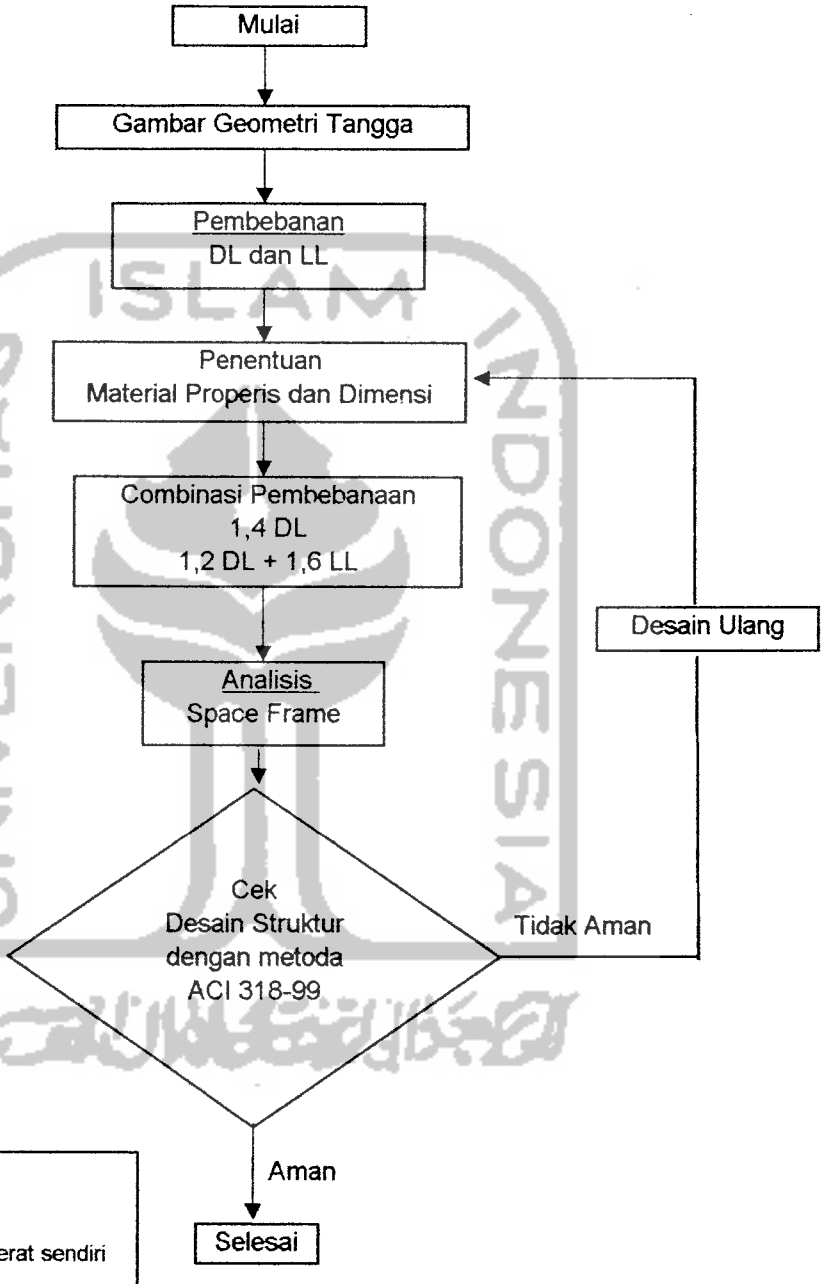


Diagram Alir Perencanaan Tangga
Dengan SAP 2000

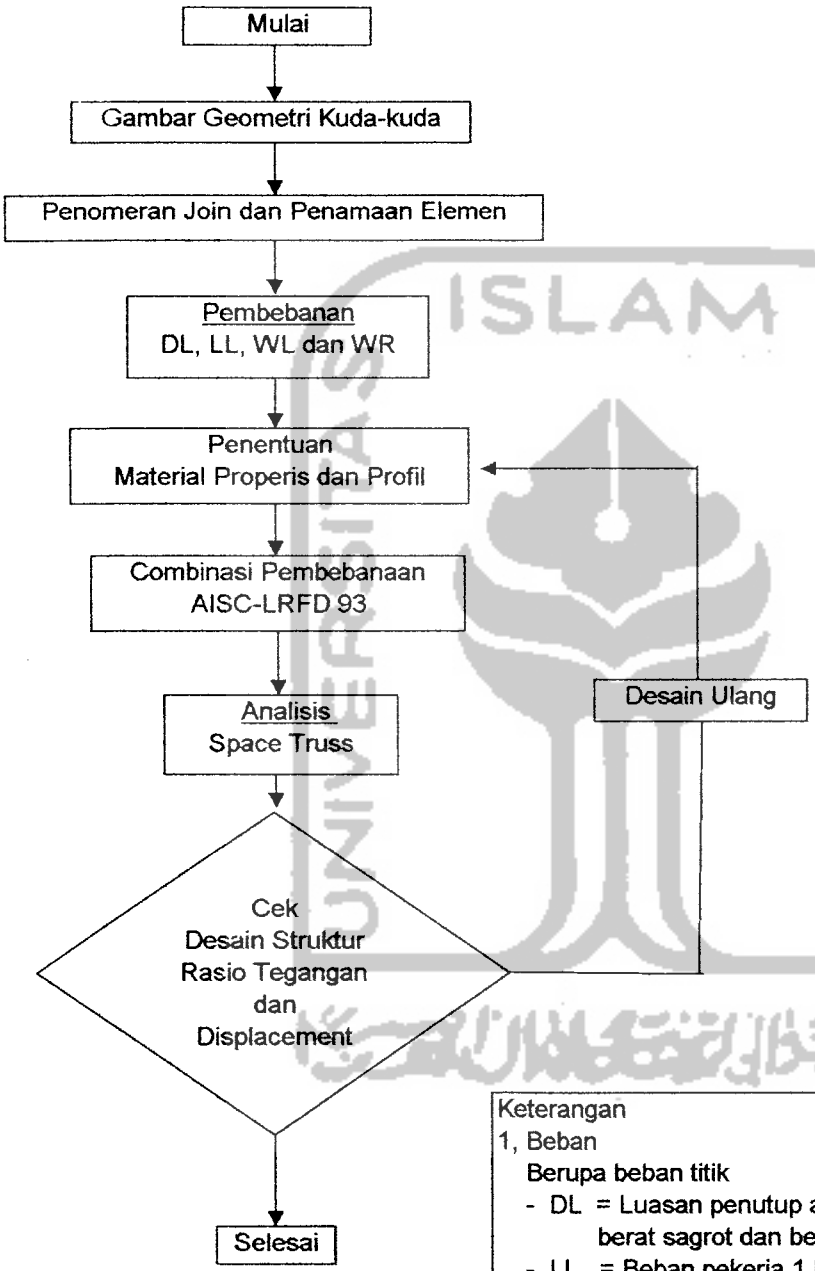


Keterangan
1, Beban
Berupa beban merata
- DL = Beban anak tangga dan berat sendiri plat
- LL = Beban hidup 3 kN/m2

2, Material Propertis
Fy = 240 Mpa
Fc = 30 Mpa

4, Aman bila
- Tulangan yang diperlukan ditampilkan
- Displacement < 1,0 cm

Diagram Alir Perencanaan Kuda-kuda Rangka Baja Dengan SAP 2000



Keterangan

1, Beban

Berupa beban titik

- DL = Luasan penutup atap, berat gording, berat sagrot dan berat sendiri elemen.
- LL = Beban pekerja 1 kN
- WL = Beban akibat angin dari arah kiri
- WR = Beban akibat angin dari arah kanan

2, Material Propertis

Fy = 240 Mpa

Es = 200000 Mpa

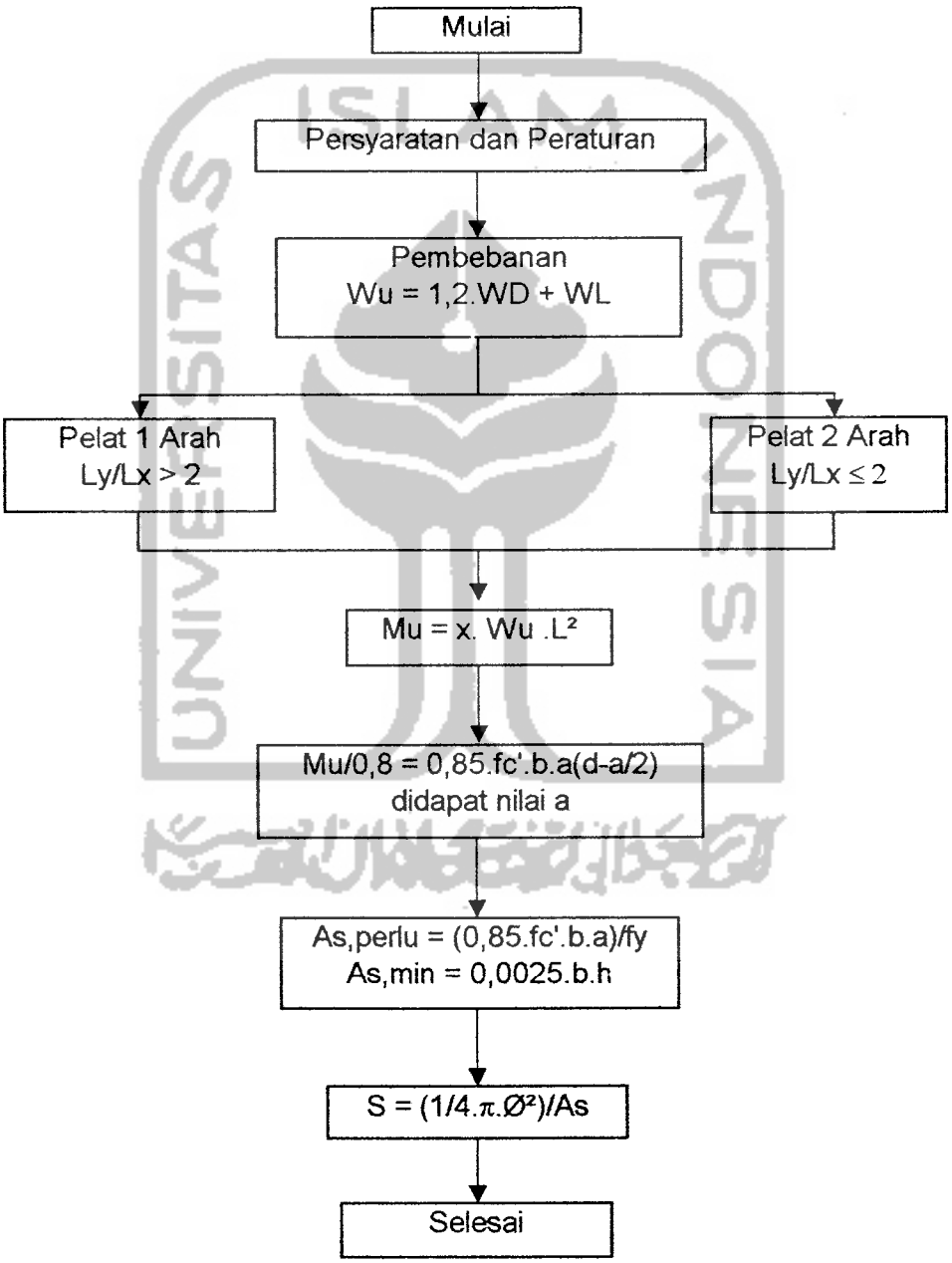
3, Pilihan Profil

- 2L 45 X 45 X 5 - 10
- 2L 50 X 50 X 5 - 10
- 2L 55 X 55 X 5 - 10

4, Aman bila

- Rasio Tegangan < 1
- Displacement < L/360

Diagram Alir Langkah - langkah
Perencanaan Plat Lantai



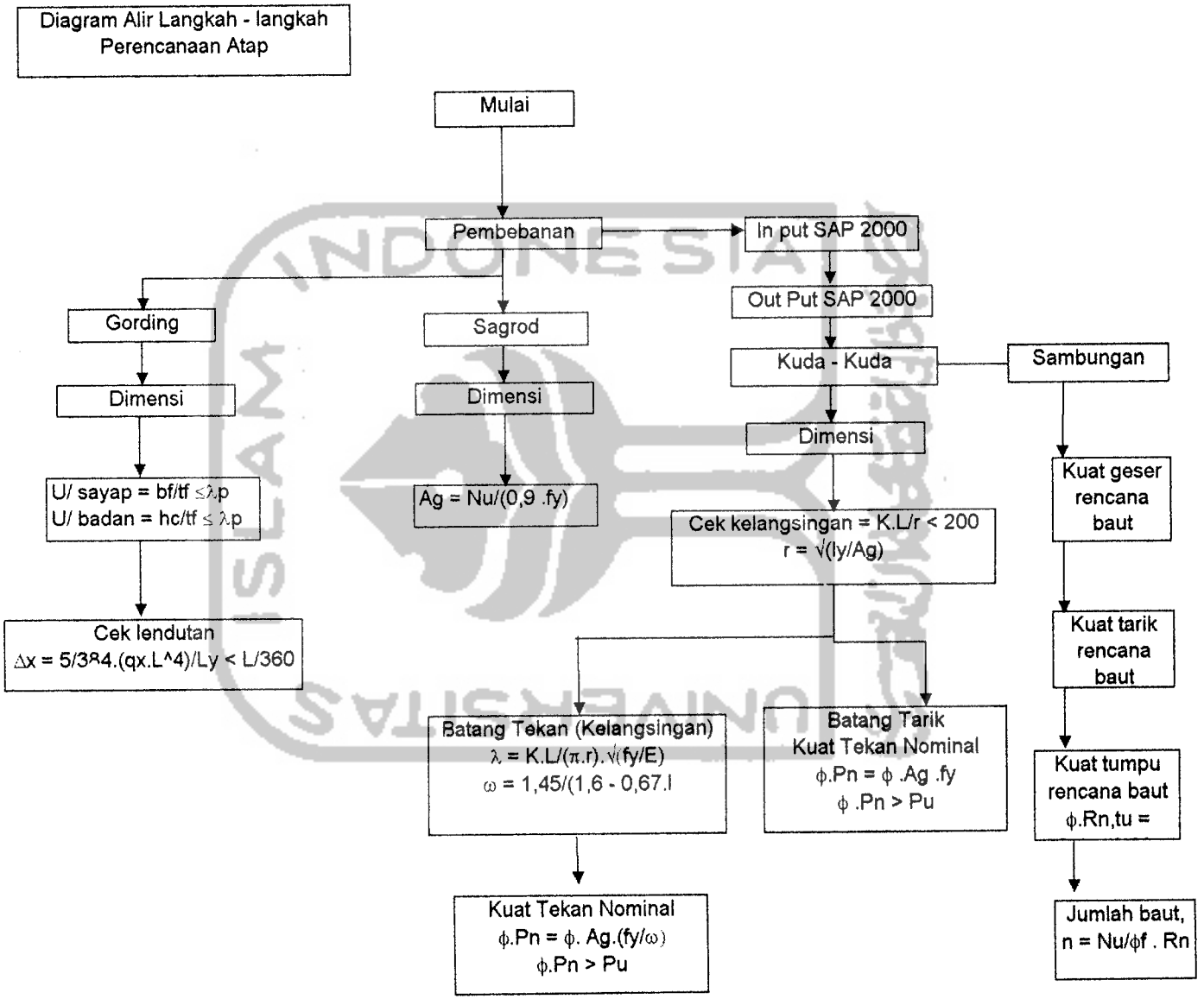
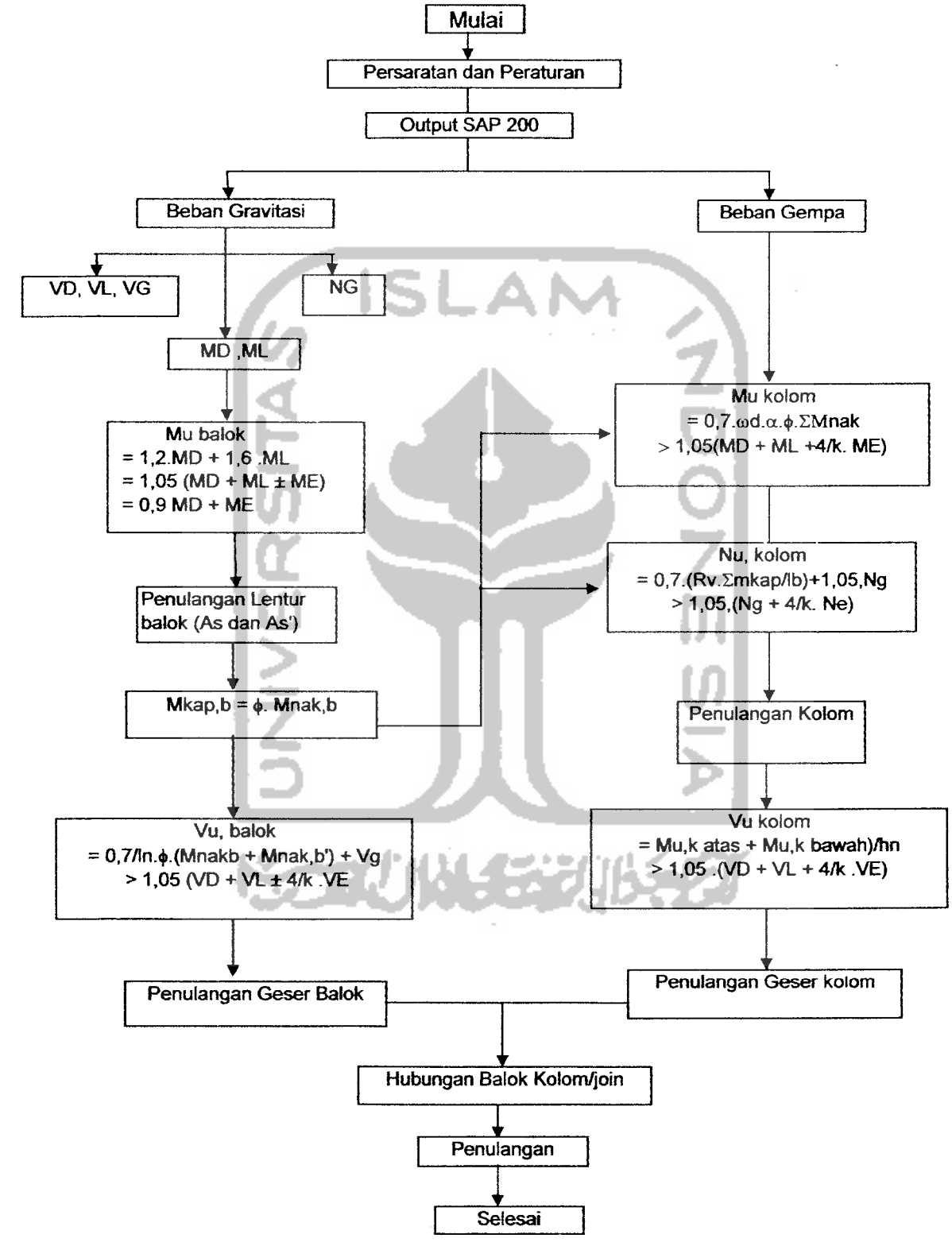

Diagram Alir Langkah - langkah Perencanaan Atap
Mulai
Pembebanan
In put SAP 2000
Out Put SAP 2000
Gording
Sagrod
Kuda - Kuda
Sambungan
Dimensi
Dimensi
Dimensi
U/ sayap = bf/tf ≤λp
U/ badan = hc/tf ≤ λp
Ag = Nu/(0,9 .fy)
Cek kelangsingan = K.L/r < 200
r = √(Iy/Ag)
Kuat geser rencana baut
Cek lendutan
Δx = 5/384.(qx.L^4)/Ly < L/360
Kuat tarik rencana baut
Batang Tekan (Kelangsingan)
λ = K.L/(π.r).√(fy/E)
ω = 1,45/(1,6 - 0,67.l
Batang Tarik
Kuat Tekan Nominal
ϕ.Pn = ϕ .Ag .fy
ϕ .Pn > Pu
Kuat tumpu rencana baut
ϕ.Rn,tu =
Kuat Tekan Nominal
ϕ.Pn = ϕ. Ag.(fy/ω)
ϕ.Pn > Pu
Jumlah baut,
n = Nu/ϕf . Rn

Diagram Alir Langkah - langkah Perencanaan Strujtur Rangka dengan Daktilitas Penuh



Lap.Pen...Momen Rencana Balok

FRAME	Loc	MD	ML	Mav	Mav	combo 1	combo 2	combo 3	combo 4	combo 5	M Lap	M Tum
		N-mm	N-mm	N-mm	N-mm	N-mm	N-mm	N-mm	N-mm	N-mm	N-mm	N-mm
1	2	3	4	5	6	7	8	9	10	11	12	13
1B1	225	-1170927,4	0	0	0	-1408403[illegible],31	-1212[illegible]73,8	1[illegible]07[illegible]73,8	-1[illegible]8[illegible]4,7	1[illegible]8[illegible]4,7	17[illegible]87,3	3819[illegible],24
	2400	7215248,87	0	0	0	8[illegible]8[illegible]11,31	7[illegible]11,31	7[illegible]11,31	6[illegible]23,99	6[illegible]23,99	2[illegible]07,24	-[illegible]441,1
	5775	-5170927,4	0	0	0	-1408403[illegible],9	-1212[illegible]73,8	1[illegible]07[illegible]73,8	-1[illegible]8[illegible]4,7	1[illegible]8[illegible]4,7		
1B10	225	-5203911,6	0	0	0	-6064[illegible],32	-5[illegible]02,18	-5[illegible]02,18	-4[illegible]10,44	4[illegible]10,44		
	1912,5	4120898,24	0	0	0	3[illegible]23,49	[illegible]79,65	2[illegible]79,65	2[illegible]17,50	2[illegible]17,50		
	3600	12745095,92	0	0	0	2[illegible]11,1	21[illegible]50,72	21[illegible]50,72	1[illegible]86,33	1[illegible]86,33		
1B11	0	2[illegible]4[illegible]10,7	0	0	0	2[illegible]55,24	2[illegible]11,31	2[illegible]11,31	2[illegible]67,18	2[illegible]67,18		
	375	-1[illegible]9921,7	0	0	0	-2[illegible]07,24	-2[illegible]5,84	-2[illegible]5,84	-1[illegible]0,40	1[illegible]0,40		
	750	-5[illegible]44,34	0	0	0	-6[illegible]20,37	-5[illegible]06,61	-5[illegible]06,61	-4[illegible]99,95	-4[illegible]99,95		
1B12	225	-4[illegible]97,05	0	0	0	-8[illegible]43,4	-4[illegible]95,4	-4[illegible]95,4	-2[illegible]85,05	-2[illegible]85,05		
	2212,5	2[illegible]06,9	0	0	0	2[illegible]40,17	[illegible]11,7	[illegible]11,7	2[illegible]2,31	2[illegible]2,31		
	4275	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
1B13	225	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
	2250	2[illegible]12,13	0	0	0	[illegible]74,58	[illegible]02,74	[illegible]02,74	2[illegible]0,92	2[illegible]0,92		
	4275	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
1B14	225	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
	2250	2[illegible]12,13	0	0	0	[illegible]74,58	[illegible]02,74	[illegible]02,74	2[illegible]0,92	2[illegible]0,92		
	4275	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
1B15	225	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
	2250	2[illegible]12,13	0	0	0	[illegible]74,58	[illegible]02,74	[illegible]02,74	2[illegible]0,92	2[illegible]0,92		
	4275	-4[illegible]91,24	0	0	0	-6[illegible]89,49	-4[illegible]90,8	-4[illegible]90,8	-3[illegible]92,12	-3[illegible]92,12		
1B16	150	-4[illegible]00,52	0	0	0	-5[illegible]40,52	-4[illegible]36,66	-4[illegible]36,66	3[illegible]36,47	3[illegible]36,47		
	2075	2[illegible]85,22	0	0	0	[illegible]36,52	2[illegible]40,46	2[illegible]40,46	2[illegible]6,7	2[illegible]6,7		
	4000	-[illegible]52,78	0	0	0	-4[illegible]86,91	-[illegible]30,06	-[illegible]30,06	-3[illegible]6,19	-3[illegible]6,19		
1B17	150	-4[illegible]00,52	0	0	0	-5[illegible]40,52	-4[illegible]36,66	-4[illegible]36,66	3[illegible]36,47	3[illegible]36,47		
	2075	2[illegible]85,22	0	0	0	[illegible]36,52	2[illegible]40,46	2[illegible]40,46	2[illegible]6,7	2[illegible]6,7		
	4000	-[illegible]52,78	0	0	0	-4[illegible]86,91	-[illegible]30,06	-[illegible]30,06	-3[illegible]6,19	-3[illegible]6,19		
1B18	250	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4750	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
1B19	250	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4750	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
1B2	0	-2[illegible]45,11	0	0	0	-2[illegible]72,90	-2[illegible]01,32	-2[illegible]01,32	2[illegible]29,7	2[illegible]29,7		
	2387,5	4[illegible]50,04	0	0	0	5[illegible]35,05	5[illegible]07,64	5[illegible]07,64	4[illegible]05,04	4[illegible]05,04		
	4775	-7[illegible]04,96	0	0	0	-9[illegible]85,96	-8[illegible]50,21	-8[illegible]50,21	-7[illegible]14,46	-7[illegible]14,46		
1B20	225	-5[illegible]78,86	0	0	0	-6[illegible]94,60	-5[illegible]82,8	-5[illegible]82,8	-4[illegible]70,97	-4[illegible]70,97		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4775	-5[illegible]78,86	0	0	0	-6[illegible]94,60	-5[illegible]82,8	-5[illegible]82,8	-4[illegible]70,97	-4[illegible]70,97		
1B21	250	-2[illegible]42,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	2[illegible]40,9		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9750	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
1B22	250	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9750	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
1B23	250	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9750	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
1B24	225	-2[illegible]00,9	0	0	0	-3[illegible]41,1	-2[illegible]85,9	-2[illegible]85,9	-2[illegible]30,8	-2[illegible]30,8		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9775	-2[illegible]00,9	0	0	0	-3[illegible]41,1	-2[illegible]85,9	-2[illegible]85,9	-2[illegible]30,8	-2[illegible]30,8		
1B25	250	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9750	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
1B26	250	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9750	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
1B27	250	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
	6000	14[illegible]97,7	0	0	0	17[illegible]97,3	15[illegible]47,8	15[illegible]47,8	[illegible]52,9	1[illegible]52,9		
	9750	-2[illegible]34,3	0	0	0	-3[illegible]21,2	-2[illegible]81	-2[illegible]81	-2[illegible]40,9	-2[illegible]40,9		
1B28	225	-6[illegible]78,86	0	0	0	-6[illegible]94,60	-5[illegible]82,8	-5[illegible]82,8	-4[illegible]70,97	-4[illegible]70,97		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4775	-5[illegible]78,86	0	0	0	-6[illegible]94,60	-5[illegible]82,8	-5[illegible]82,8	-4[illegible]70,97	-4[illegible]70,97		
1B29	250	-7[illegible]07,19	0	0	0	-8[illegible]76,23	-7[illegible]72,2	-7[illegible]72,2	-6[illegible]62,17	-6[illegible]62,17		
	2425	4[illegible]35,05	0	0	0	[illegible]36,42	5[illegible]07,8	5[illegible]07,8	4[illegible]01,55	4[illegible]01,55		
	5600	-8[illegible]25,05	0	0	0	-9[illegible]52,42	-8[illegible]66,82	-8[illegible]66,82	-7[illegible]63,82	-7[illegible]63,82		
1B3	0	2[illegible]45,11	0	0	0	-2[illegible]72,90	-2[illegible]01,32	-2[illegible]01,32	-2[illegible]29,7	-2[illegible]29,7		
	2387,5	4[illegible]50,04	0	0	0	5[illegible]35,05	5[illegible]07,64	5[illegible]07,64	4[illegible]05,04	4[illegible]05,04		
	4775	-7[illegible]04,96	0	0	0	-9[illegible]85,96	-8[illegible]50,21	-8[illegible]50,21	-7[illegible]14,46	-7[illegible]14,46		
1B30	250	-7[illegible]07,19	0	0	0	-8[illegible]76,23	-7[illegible]72,2	-7[illegible]72,2	-6[illegible]62,17	-6[illegible]62,17		
	2425	4[illegible]35,05	0	0	0	[illegible]36,42	5[illegible]07,8	5[illegible]07,8	4[illegible]01,55	4[illegible]01,55		
	5600	-8[illegible]25,05	0	0	0	-9[illegible]52,42	-8[illegible]66,82	-8[illegible]66,82	-7[illegible]63,82	-7[illegible]63,82		
1B31	250	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4750	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
1B32	250	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4750	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
1B33	250	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		
	2600	3[illegible]49,43	0	0	0	4[illegible]99,32	[illegible]11,9	[illegible]11,9	3[illegible]24,49	3[illegible]24,49		
	4750	-5[illegible]96,96	0	0	0	-6[illegible]24,06	-5[illegible]96,31	-5[illegible]96,31	-4[illegible]68,26	-4[illegible]68,26		

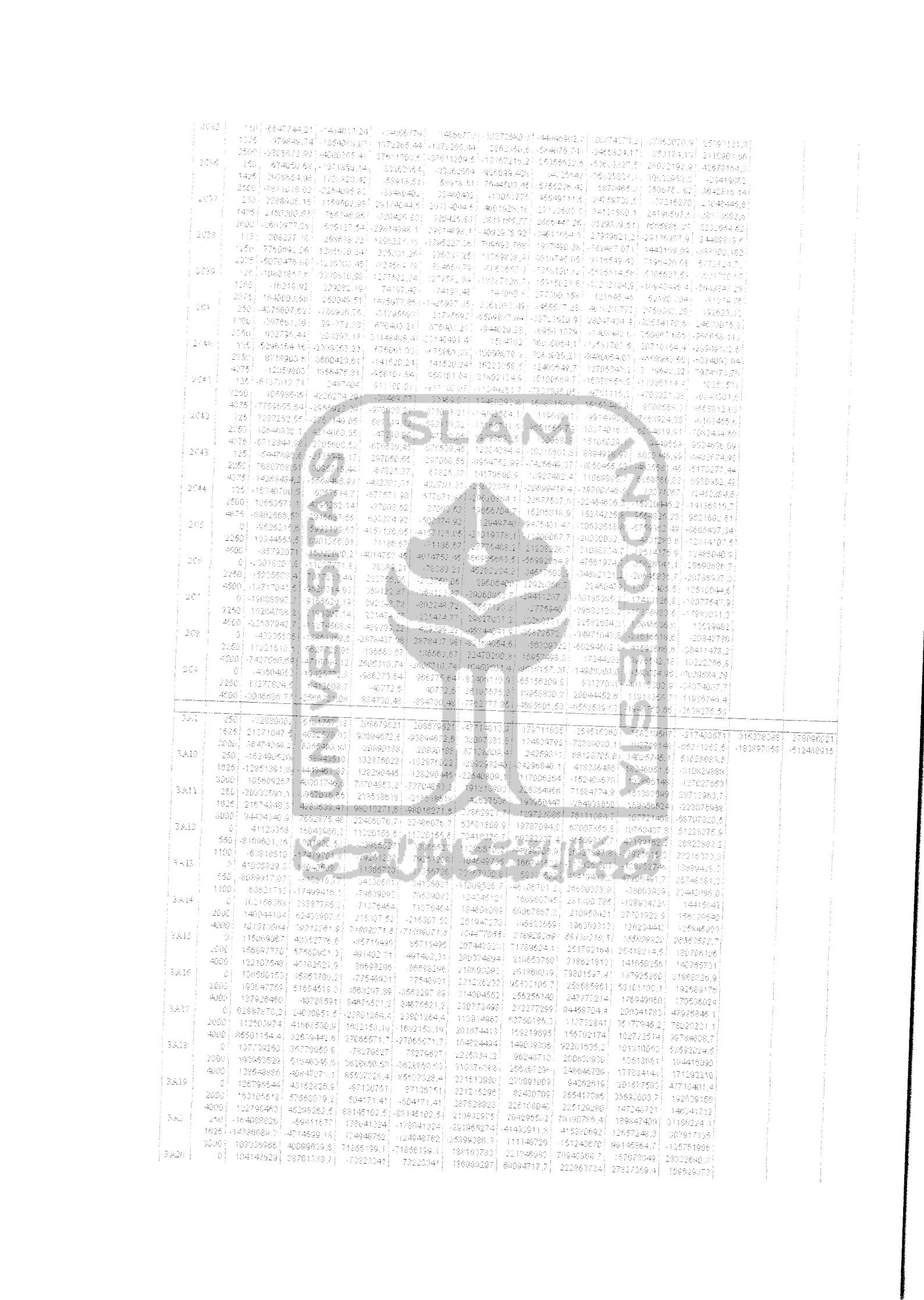
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	1200	916694,63	0	0	0	1098803,8	901668,672	924068,647	924068,647	924068,647		
	2275	-936141,77	0	0	0	-1121370,12	60,2948,992	-942527,592	-942527,592	-942527,592		
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	1200	916694,63	0	0	0	1098803,8	901668,672	924068,647	924068,647	924068,647		
	2175	-1216046,74	0	0	0	-1578236,98	-1578236,98	-1557049,49	-1557049,49	-1557049,49		
1E47	225	4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1D98	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1D99	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA0	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA1	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA2	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA3	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA4	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA5	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA6	225	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
	1200	2981612,13	0	0	0	3578174,56	3130902,74	3130902,74	2683630,92	2683630,92		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
1DA7	250	-4000167,65	0	0	0	-4800434,58	-4200456,4	-4200456,4	-3600478,22	-3600478,22		
	2262,5	2981535,9	0	0	0	3577843,08	3130612,7	3130612,7	2683382,31	2683382,31		
	4275	-4263991,24	0	0	0	-5116789,48	-4477190,5	-4477190,5	-3837592,12	-3837592,12		
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	975	-1969922,7	0	0	0	-2363907,24	-2067916,84	-2067916,84	-1771926,42	-1771926,42		
	750	-6766444,06	0	0	0	-8119733,27	-7104766,61	-7104766,61	-6089799,96	-6089799,96		
1DA9	225	5400311,5	0	0	0	6480373,8	5670326,33	5670326,33	4860278,85	4860278,85		
	1962,5	2130866,24	0	0	0	2557039,49	2237409,68	2237409,68	1917779,87	1917779,87		
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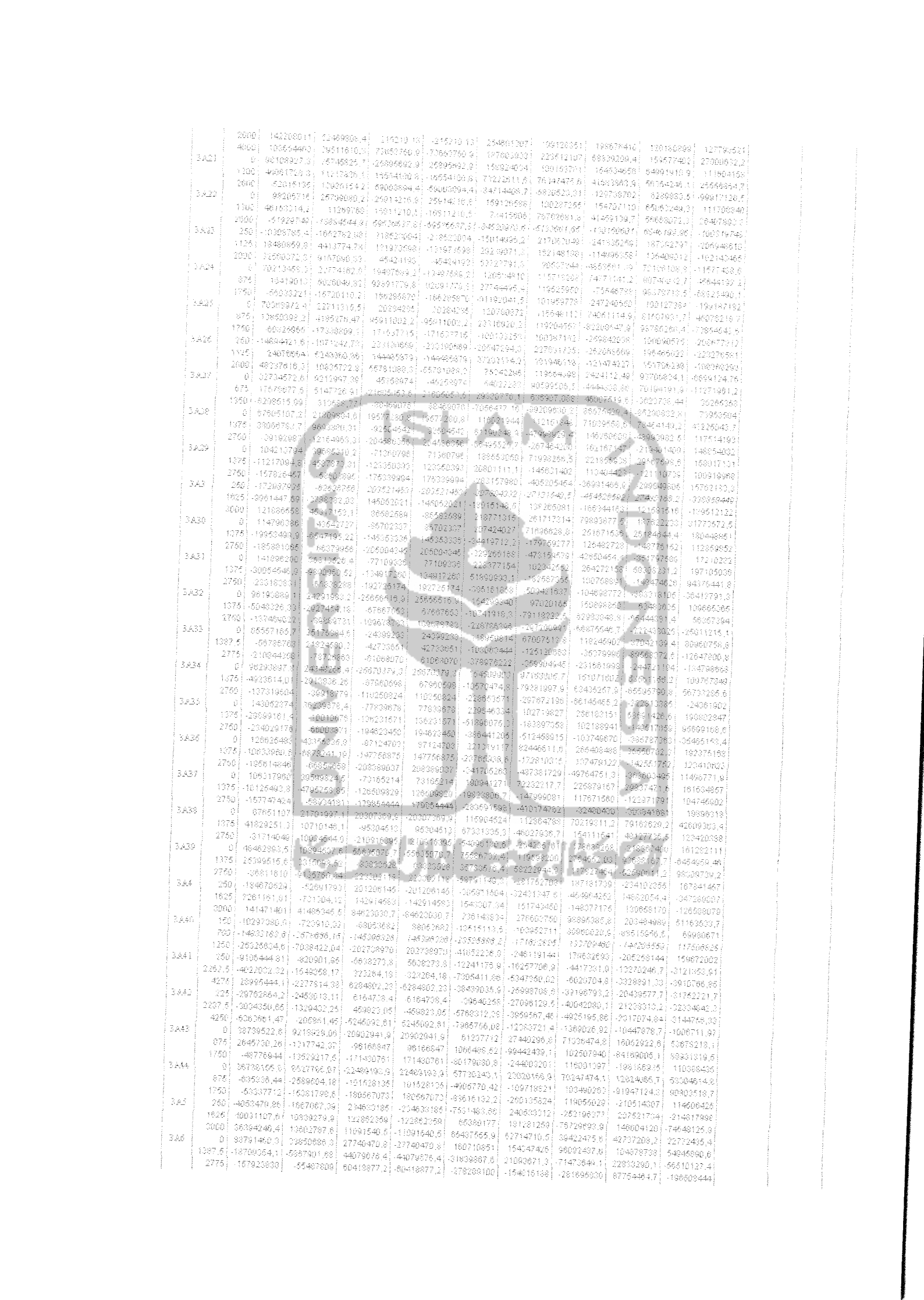
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	3050	-811838,19	0	0	0	-974205,8281	-852430,1	-852430,1	-730654,271	-730654,271		
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	1025	739440,29	0	0	0	887328,348	776412,306	776412,306	665496,261	665496,261		
	2600	-748520,75	0	0	0	-898224,9	-785946,788	-785946,788	-673668,675	-673668,675		
1011	150	-1026050,7	0	0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63		
	1025	739440,29	0	0	0	887328,348	776412,306	776412,306	665496,261	665496,261		
	2600	-748520,75	0	0	0	-898224,9	-785946,788	-785946,788	-673668,675	-673668,675		
1012	150	-1026050,7	0	0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63		
	1025	739440,29	0	0	0	887328,348	776412,306	776412,306	665496,261	665496,261		
	2600	-748520,75	0	0	0	-898224,9	-785946,788	-785946,788	-673668,675	-673668,675		
1013	150	-1026050,7	0	0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63		
	1025	739440,29	0	0	0	887328,348	776412,306	776412,306	665496,261	665496,261		
	2600	-748520,75	0	0	0	-898224,9	-785946,788	-785946,788	-673668,675	-673668,675		
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	1425	739440,29	0	0	0	887328,348	776412,306	776412,306	665496,261	665496,261		
	2600	-1026050,7	0	0	0	-1230420,84	-1076618,24	-1076618,24	-922816,63	-922816,63		
1015	250	-748520,75	0	0	0	-898224,9	-785946,788	-785946,788	-673668,675	-673668,675		
	1425	739440,29	0	0	0	887328,348	776412,306	776412,306	665496,261	665496,261		
	2600	-1026050,7	0	0	0	-1230420,84	-1076618,24	-1076618,24	-922816,63	-922816,63		
1016	125	-677364,42	0	0	0	-1052607,3	-921232,641	-921232,641	-789857,975	-789857,975		
	1250	616641,67	0	0	0	739249,884	644218,649	644218,649	552187,413	552187,413		
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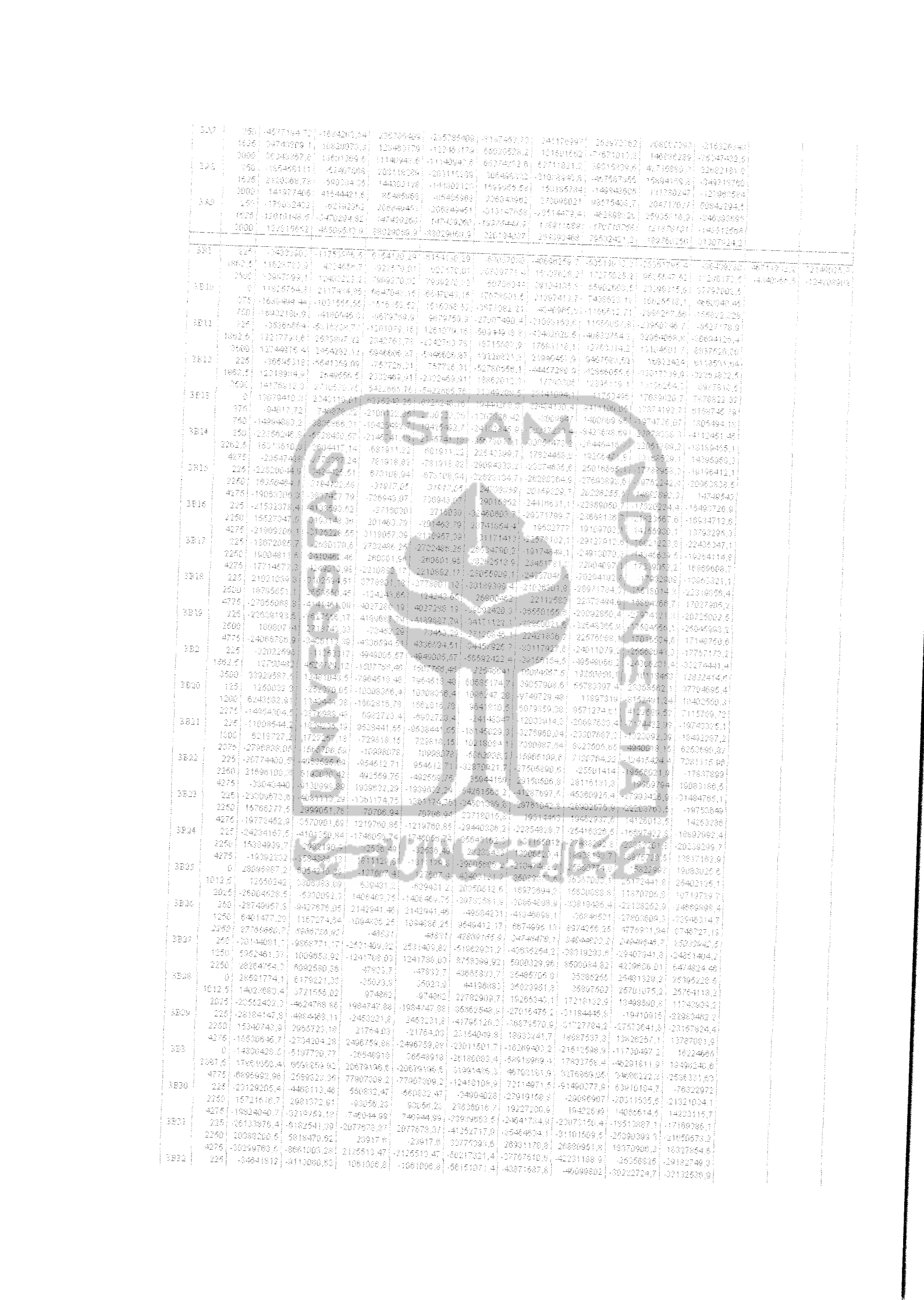
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	1875	-827064,42		0		0	0	-1050897,3	-921200,641	-921200,641	-760627,979	-760627,979			
1D18	125	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
	2250	1897874,7		0		0	0	2356449,64	2097268,44	2097268,44	1756087,23	1756087,23			
	4375	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
1D19	125	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
	2250	1897874,7		0		0	0	2356449,64	2097268,44	2097268,44	1756087,23	1756087,23			
	4375	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
1D2	250	-664459,27		0		0	0	-677249,9144	-592681,1941	-592681,1941	-508012,4402	-508012,4402			
	1300	610696,59		0		0	0	722716,9056	641126,42	641126,42	549535,9311	549535,9311			
	2350	-811838,13		0		0	0	-974295,828	-852430,1	-852430,1	-730564,371	-730564,371			
1D20	125	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
	2250	1897874,7		0		0	0	2356449,64	2097268,44	2097268,44	1756087,23	1756087,23			
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1D21	125	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
	2250	1897874,7		0		0	0	2356449,64	2097268,44	2097268,44	1756087,23	1756087,23			
	4375	-3331530,78		0		0	0	-3997836,94	-3498107,32	-3498107,32	-2998377,7	-2998377,7			
1D22	125	-4190468,95		0		0	0	-5029566,74	-4400013,41	-4400013,41	-3771440,06	-3771440,06			
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1D3	250	-664459,27		0		0	0	-677249,9144	-592681,1941	-592681,1941	-508012,4402	-508012,4402			
	1300	610696,59		0		0	0	722716,9056	641126,42	641126,42	549535,9311	549535,9311			
	2350	-811838,13		0		0	0	-974295,828	-852430,1	-852430,1	-730564,371	-730564,371			
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	1300	610696,59		0		0	0	722716,9056	641126,42	641126,42	549535,9311	549535,9311			
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	1425	739440,29		0		0	0	867028,348	776412,305	776412,305	685496,261	685496,261			
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1D6	150	-1026350,7		0		0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63			
	1375	742086,21		0		0	0	848892,372	779504,676	779504,676	668146,279	668146,279			
	2600	-1026350,7		0		0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63			
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	1425	739440,29		0		0	0	867028,348	776412,305	776412,305	685496,261	685496,261			
	2600	-1026350,7		0		0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63			
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	1425	739440,29		0		0	0	867028,348	776412,305	776412,305	685496,261	685496,261			
	2600	-748620,75		0		0	0	-996724,9	-795946,788	-795946,788	-673668,676	-673668,676			
1D9	150	-1026350,7		0		0	0	-1230420,84	-1076618,24	-1076618,24	-922815,63	-922815,63			
	1425	739440,29		0		0	0	867028,348	776412,305	776412,305	685496,261	685496,261			
	2600	-748620,75		0		0	0	-996724,9	-795946,788	-795946,788	-673668,676	-673668,676			
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	3000	26525463,7	8972937,63	17392918	17392918	44762325,71	16888618,61	64274746,6	77812057,67	29977543					
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	1625	14204427,8	-5065448,32	6664784,5,5	-6664784,5,5	-29143030,71	9083794,4,9	-12061274,1	23208166,9	38777135,9					
	3000	10402908,9	39645167,4	54976128,9	-54976128,9	198107175	20402,5662	88975791,3	-14811,4695	44147664,1					
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	550	-7627404,52	-3901184,92	-11704065,6	11704065,6	-15754748,9	-24290644,5	278893,673	-13568323,4	3348945,66					
	1100	-61190233	-20947512,9	-44667625	44667625	-94922300,1	-12005165,0	-26717838	-88191071,2	-5903947,2					
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	1100	-55497349	-22822382,0	-49340939	49340939	-103107430	-13164,2575	-28026604,3	-94049959,2	-5636269					
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	875	-5047811,36	1741708,42	-3774,4386	3774,4386	-9512447,1	-3,3088044,2	-1562,2016,4	-7005882,6	6897612,2					
	1750	-19666189	14111541,9	-13861,6548	13861,6548	-39977693	-19737,6577	-3500,6872	-677,49861	68149320,4					
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	875	-1251902,04	2121702,96	-809787,10	809787,10	-4897007,17	-9324215,1,9	91600139,1	-73917550,8	71964127,2					
	1750	-39069964	-14637945,2	-1429004,67	1429004,67	-70864669,1	-20421,6,900	94874169,4	-18440,379	90177443,7					
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	2000	15409,1167	57292037,5	485900,31	-485900,31	2766,77129	21644,7172	2154,25,775	1091,18,054	13024,4729					
	4000	11078,6084	43513,68,5	65447,670	65447,670	20516,6186	91,876,072,4	229,315,219	43,656,094,8	161,309,921					
3A18	0	10475,7474	39762,160,2	5644,5,826,5	-6644,5,826,5	19,932,8415	2372,96,492	77,344,677,4	1644,8,795	34618657,5					
	2000	13751,0449	51,684,132,2	2023,620,,93	2023,620,,93	24787,6160	1953,33,272	191,083,880	12,556,0671	12,1938,756					
	4000	93644,495,2	35899447,8	4236,5,68	4236,5,68	171412,610	57720,180,6	1986,73,216	29157,316,5	1404,02,775					
3A19	0	12,3932,605	4,6,9,8,805	61,377,596	61,377,596	216,0,7,214	117,478,130	22,5,71,082	6,5,2,9,5,08	1,5,7,7,6,181					
	2000	14,1,6,3,0,72	51,487,190	2,372,696,,99	2,372,696,,99	25,157,6,194	19,4,2,3,3,042	1,992,16,705	12,4,9,2,1,340	12,0,0,2,196					
	4000	91,674,637,7	3,2,5,0,8,911	4,6,8,3,2,,01,,9	-4,6,8,3,2,,01,,9	14,9,9,0,3,811	1,6,6,2,3,6,092	87,410,468,,1	1,1,6,0,6,6,147	31,449,183,,0					
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	2000	1,0,7,2,4,,0,,0,,1,,6	5,1,6,,1,8,,4,6,2,,3	1,9,8,7,4,1,2,,5,5	-1,9,9,7,4,1,3,,9,,5,5	2,4,7,,2,,8,,3,,5,,9,,1,,9,,8	1,9,4,,0,,3,,3,,8,,1,,9,,3	1,9,0,,7,,9,,3,,8,,2,,9	1,2,,5,,,0,,2,,1,,7,,0,,7	1,2,,1,,,7,,2,,9,,4,,4,,2					
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	2000	1,5,,3,,6,,2,,8,,3,,2,,0	5,7,,3,,0,,1,,3,,5,,9,,,2	6,,0,,0,,,8,,7,,9,,,9	-6,,0,,0,,,8,,7,,9,,,9	2,7,,6,,,0,,3,,8,,1,,5,,8	2,1,,5,,,8,,8,,6,,4,,4	2,1,,4,,,0,,3,,3,,5,,9,,6	1,3,,7,,,1,,8,,2,,6,,0	1,0,,7,,,8,,1,,4,,9,,8,,6					
	4000	1,1,,3,,,1,,7,,2,,2,,0	4,3,,4,,0,,2,,9,,3,,1,,,2	-5,,8,,6,,0,,0,,3,,6,,0	5,,8,,6,,0,,0,,3,,6,,0	2,0,,5,,,1,,8,,5,,0,,6,,4	9,,9,,8,,4,,6,,3,,,7,,3	2,,2,,9,,,8,,1,,4,,4,,2,,9	4,,1,,9,,5,,5,,1,,7,,4	1,,6,,1,,8,,5,,5,,6,,8,,2					
2A22	0	1,0,1,,9,,4,,3,,0,,1,,1	3,9,,7,,6,,2,,1,,8,,3,,,6	5,4,,9,,9,,0,,8,,3,,,1	-5,4,,9,,9,,0,,8,,3,,,1	1,9,,4,,,0,,5,,2,,0,,6,,7	2,0,,1,,3,,1,,5,,3,,1,,0	8,,8,,0,,2,,7,,2,,1,,7	1,4,,1,,1,,5,,6,,1,,4	4,,2,,3,,4,,0,,2,,4,,5					
	2000	1,3,,9,,,8,,6,,6,,,7,,7	5,0,,1,,,8,,5,,2,,,1,,3	6,,0,,0,,,4,,3,,9,,,9	-6,,0,,0,,,4,,3,,9,,,9	2,1,,5,,,8,,5,,6,,0,,5,,6	2,1,,5,,,8,,8,,6,,4,,4	2,1,,4,,,0,,3,,3,,5,,9,,6	1,3,,7,,,1,,8,,2,,6,,0	1,0,,7,,,8,,1,,4,,9,,8,,6					
	4000	9,3,4,3,5,,5,,8,,8,,,9	3,0,,7,,9,,9,,3,,1,,,6	-6,,8,,0,,2,,9,,6,,2,,7	6,,8,,0,,2,,9,,6,,2,,7	1,7,1,,0,,0,,1,,7,,1,,6	9,6,,1,,1,,1,,2,,4,,,3	1,9,9,,0,,5,,4,,4,,4,,0	2,7,,2,,7,,3,,4,,6,,,3	1,4,,8,,1,,0,,6,,9,,2					
2A23	0	1,0,1,,9,,4,,3,,0,,1,,1	3,9,,7,,6,,2,,1,,8,,3,,,6	5,4,,9,,9,,0,,8,,3,,,1	-5,4,,9,,9,,0,,8,,3,,,1	1,9,,4,,,0,,5,,2,,0,,6,,7	2,0,,1,,3,,1,,5,,3,,1,,0	8,,8,,0,,2,,7,,2,,1,,7	1,4,,1,,1,,5,,6,,1,,4	4,,2,,3,,4,,0,,2,,4,,5					
	2000	1,3,,9,,,8,,6,,6,,,7,,7	5,0,,1,,,8,,5,,2,,,1,,3	6,,0,,0,,,4,,3,,9,,,9	-6,,0,,0,,,4,,3,,9,,,9	2,1,,5,,,8,,5,,6,,0,,5,,6	2,1,,5,,,8,,8,,6,,4,,4	2,1,,4,,,0,,3,,3,,5,,9,,6	1,3,,7,,,1,,8,,2,,6,,0	1,0,,7,,,8,,1,,4,,9,,8,,6					
	4000	9,3,4,3,5,,5,,8,,8,,,9	3,0,,7,,9,,9,,3,,1,,,6	-6,,8,,0,,2,,9,,6,,2,,7	6,,8,,0,,2,,9,,6,,2,,7	1,7,1,,0,,0,,1,,7,,1,,6	9,6,,1,,1,,1,,2,,4,,,3	1,9,9,,0,,5,,4,,4,,4,,0	2,7,,2,,7,,3,,4,,6,,,3	1,4,,8,,1,,0,,6,,9,,2					

QB13	250	-214492104,0	-3940451,98	1841885,25	1841885,25	-31937781,8	-27147246	-25009285,8	20241988,8	-18386506,1	
	2262,5	1531247,4	2940006,93	386406,61	386406,61	20068577,9	18454150,4	19280806,6	19431685,4	19430964,9	
	4275	-214557036,6	-3775705,4	264909	264909	-31709216	-25519483,7	-25276776,5	-19872647,5	-19548401,9	
QB14	225	-214501104,2	-3539279,59	450440,99	-956460,99	-31092108,4	-25356609,5	-25312940,2	-19867276,9	-19538906,7	
	2250	1602459,8	3120672,14	30131,04	-30131,04	24203567,4	19815946,4	19752671,2	19449264,5	19305048	
	4275	-209428886	2952574,61	995220,6	995220,6	31276982,6	-26529952,7	-26197870	-19160803,4	-18477591,4	
QB14	225	-210726548,8	-4229903,96	-1439667,42	1439667,42	-30507512,1	-25809952,1	-25555871,5	-21426741	-19837067,6	
	2250	1515744,8	3111014,15	1165003,67	-1165003,67	24278566,3	20037284	19794105,8	19454065,7	19445108,7	
	4275	-19691930,3	-3036077,92	1671265,17	1671265,17	-28769242,9	-21051814,4	-20540121,3	-16216540,5	-16226878,3	
QB15	225	22999680,1	-3797474,96	1981097,36	-1981097,35	-32905745,7	-26556317,9	-26558822,3	-19918899,2	-19462804,4	
	2250	1950127,4	3015820,31	78657,02	78657,02	25508747	20960068,9	20799504,4	18280611,9	18140764,9	
	4275	18193778,9	3273002,91	-1027922,68	1027922,68	-26980416,6	-20648420,3	-20557784,7	-19479309,6	-19260078,9	
QB16	225	-23038057	-3940420,63	2111004,46	-2111004,46	33061053,7	-26076545,2	-25762597,5	-19159965,1	-18551034,4	
	2250	1948466,1	2895547,01	-126031,76	126031,76	27694460,1	20967164,2	20836192	17511320	17561067,2	
	4775	-23669004,5	-3210864,39	-2135668,15	2135668,15	-31942257,7	-25016440	-25009660,5	-20328045,5	-19076219,6	
QB17	225	25259459,6	-3404003,02	2468458,06	-2468458,06	-31357352,4	-26026691,9	-25777963,1	-20615021,4	-19451525,9	
	2600	1965224,2	2758403,53	4347,7	-4347,7	28012699,9	20246636,2	20266826,3	17602627,7	17691750,5	
	4775	-21103459,6	-2619296,76	-2470160,36	2470160,36	-25499483	-27211628,4	-27216628,4	-21219910,7	-16707504,6	
QB18	250	-11094421,6	-2706186,14	1991560,25	-1991560,25	-31587699,7	19440162	20280615,4	17511320	17561067,2	
	1125	15065191,4	4569919,87	1172457,34	-1172457,34	25960102,1	14324564,6	15297099,4	11907820	11961139,03	
	2600	20156899,2	3052756,2	4098431,7	-4098431,7	56657594,8	9243617,4	-2040021,66	70699795,5	70965786,2	
QB19	0	7328981,3	1536649,4	46217,56	-46217,56	5081284,6	32493662,4	-2642505,63	78720707,6	10841241,2	
	1375	14408652,6	3740133,21	-676417,44	676417,44	2227498,8	42261192,8	6959913,6	47834722,1	73760307,1	
	1750	27048306,6	794582,29	-1504122,54	1504122,54	-45108699,4	-22565304	14551229,8	19871484	13807755	
QB2	0	-4643294,59	1068772,84	-2074356,3	2074356,3	-7731458,95	-2111566,1	25342666,8	30956972,1	21687991,8	
	2387,5	2976026,22	-880618,6	1472949,1	-1472949,1	26427161,96	17668018,8	-1827913,7	16440230	-10867349,9	
	4775	-9748402,16	-962284,17	592000,46	-592000,46	-12869705,2	512703,7	-7206060,8	44563480	-62060603,3	
QB20	125	-1509486,8	-872239,42	-5777850,37	5777850,37	-30869628,94	-8570409,62	35630346,16	50759135,27	3841546,96	
	1200	7404280,92	1892214,35	-922469,56	922469,56	11629578,7	8406464,47	10073719,9	9800638,96	7521066,25	
	2275	-9519408,16	-2456559,23	7932930,91	-7932930,91	13711402,5	-9489914,83	-19757569,5	5562420,44	-12371709,1	
QB21	225	-5015745,16	-2448382,74	5521945,52	-5521945,52	-11136270,3	-2832193,88	-14429279,5	-444139,93	-10360922,9	
	1300	2838484,29	1951300,78	323520,51	-323520,51	6319782,4	3886057,71	4568450,78	2263467,4	2945604,22	
	2275	-4438403,6	1755091,67	-6168986,01	6168986,01	-6134200,99	-12796021	156650,212	-5480850,97	1557524,44	
QB22	225	-10859910,2	-3099350,53	-238935,2	238935,2	-20708904,7	-20859500,4	20147726,5	-12776766,6	-12166180,2	
	2250	1966029,5	3102998,46	238110,46	-238110,46	26149707,7	20763382,6	19960270,7	12502269,9	11077670,1	
	4275	-20166063,9	7474102,18	616156,1	-616156,1	-35957887	-27654007,1	-29665934,9	-17495515,1	-16883097,1	
QB23	275	-9400830,02	2654405,03	9005531,92	-9005531,92	-17004097,8	-12921109,3	-14216526,2	-7820859,81	-9276617,29	
	2250	9467650,74	2023157,12	64129,86	-64129,86	14834241,9	11680314,7	11714085,6	7554175,76	7869503,95	
	4275	-12166825,4	-4300258,89	1031789,91	-1031789,91	-21305554,5	-17669227,6	-16863498,7	-11306518,8	-10049396,9	
QB24	225	-12169951,4	2888401,2	687464,09	-687464,09	-20812236,4	-17168648,1	-15724892,6	-11506354,9	-10029847,6	
	2250	7686024,53	2918134,85	61003,14	-61003,14	13844599,2	10876833	10768730,4	8044094,9	8852899,25	
	4275	-11021273	-3831439,29	789460,41	-789460,41	-19451750,4	-14420746,6	-13078812,5	-8208857,709	-10629606,1	
QB25	250	-29017728,9	-8495287,48	428016,34	-428016,34	-48470550,6	990027,85	-36102954,3	-26648770,7	-25779341,3	
	2262,5	2129834,6	5883013,37	86411,67	-86411,67	34650832,5	27842975,2	27924439,6	19930707,9	19246278,7	
	4275	-24439666,9	-8348648,29	255193,21	-255193,21	-33432233,7	-23927762,8	-23927762,8	-21768026,3	-22226074,1	
QB26	225	-19263966,6	7604647,45	1085523,08	-1085523,08	-35234035,8	-26270664,1	-29550269,6	-16060699,1	-18314636,8	
	2247,5	12403896,8	5676419,52	6659,95	-6659,95	27921203,6	18378462,9	18364467	11196321,1	11184333,2	
	4250	-18637867,5	-7152482,81	1072202,16	-1072202,16	-31680969,3	-25438839,6	-23187015,1	-15594210,5	-13919089,5	
QB27	225	-22459871,1	-8347821,03	516602,87	-516602,87	-40172349	-30812541	-31001679	-19937114,4	-20590653,6	
	2237,5	12592904,6	5662656,35	17919,65	-17919,65	24119576,7	18551631,5	18612899,6	11322742,1	11290486,2	
	4260	13180637,9	6566946,76	482792,94	-482792,94	-26304902,7	-20653006,2	-19539741	-12228697,8	-11430870,8	
QB28	250	3215864,1	2026547,93	1035210,82	-1035210,82	-53414756,2	-40606607,6	-41435564,7	-19875548,7	-20912167,1	
	2262,5	21123481,1	5041278,59	116564,1	-116564,1	34374224,7	27388272,1	27633056,7	19905225,3	19116040,7	
	4275	-21701276,3	-5661058,65	902082,71	-902082,71	-35099242,8	-27293985,2	-28979238,8	-18629776	-20263024,9	
QB29	225	-14960301,3	-4502775,79	1190920,94	-1190920,94	-26164804,5	-21218627,4	-18717603,4	-14536610	-12392602,3	
	2250	7882820,16	2975306,85	59551,42	-59551,42	33422275,2	19090065,1	18793127,2	9867294,42	8661641,37	
	4275	8189871,64	-3282727,74	1007923,81	-1007923,81	-15046810,2	-10310207,8	-10058987,8	-6193762,95	-8548015,92	
QB3	0	-4447093,15	-1020722,52	-29617117,6	29617117,6	-6970027,81	-36942219	-25673627,6	-20038059,6	22892761,9	
	2387,5	2837944,44	-879487,46	14809626,2	-14809626,2	1992305,36	5799923,5	1341275,2	15882723,5	-10774423,6	
	4775	-16021007,2	1758252,36	59436172,5	-59436172,5	15206403,4	6118511,9	7732760	-4472594,6	-8261161,6	
QB30	225	-11981795,6	-4239295,9	380997,26	-380997,26	-21941029,5	-16214028,8	-7943493,1	-10449930,5	11126343,6	
	2250	8426279,3	2960149,79	73137,26	-73137,26	48156902	11458267,7	11702175,8	7618640,04	7640764	
	4275	-9681461,62	-3480124,29	-625371,8	625371,8	-17186562,8	-14005892,5	-12902611,8	-4166150,86	-6748480,84	
QB31	225	-17079297,1	-6018925,16	-1059087,89	1059087,89	-31492291,6	-24560629,9	-23203202,3	15025096,2	-14477548,3	
	2250	13671489,7	5674624,54	5184,71	-5184,71	24625106,8	19872140,4	18880026,3	11579674,4	11539006,9	
	4275	-18507206,3	-6297408,36	1048018,46	-1048018,46	-35476611,3	-26167204,7	-28037773,5	15712181,9	-17600365,1	
QB32	225	-2292298,2	-1014857,4	478751,03	-478751,03	-40590147,7	-30871415	-29872590,2	-20037758	-21956897,6	
	2500	17367810,6	7914403,03	100406,96	-100406,96	34224418,7	26450771,9	26209003,8	19261422,7	18960635,2	
	4775	19678177	-9359875,07	276877,11	-276877,11	-36949612,5	-28851809,6	-28272496,6	-17999549,7	-17462069,9	
QB4	225	-29508263,7	3500625,39	602685,32	-602685,32	-30208517,1	-24206942,9	26472393	-17913301,6	-18997972,1	
	2250	18796667,4	3296296,98	110831,03	-110831,03	25420075,6	20867870,7	20634129,6	15218748,6	15017252,7	
	4275	-20298681	-3556000,05	-360933,28	360933,28	-30047057,2	-24272805,7	-24272765,5	18609862,9	-17924172,9	
QB5	225	-20885202,9	3925666,83	2020668,62	-2020668,62	31342350,5	27760053,2	20062667,4	-23516948,3	-20816284,2	
	2250	18194704,2	3110722,48	112947,89	-112947,89	24410801	20962787,4	19825476,9	14676626,3	14473580,7	
	4275	-21121068,9	-3503606,83	2246584,21	-2246584,21	-30961770,6	-23129768,3	-27847563,3	-16987594,1	-21031409,9	
QB6	225	-19669184,2	-3251521,15	186293,03	-186293,03	-29045464,8	-24128968,8	-23740772,9	-19048029,8	-17715501,5	
	2250	19022666,4	3127086,56	31363,04	-31363,04	24231006,2	19012990,6	19746249,5	14448606,8	14091172,7	
	4275	-22481784,9	-4140824,1	2498000,02	-2498000,02	-29609260,6	-27291398	-27762198	-20010406,4	-20456006,4	
QB7	250	-19865365,8	-3522962,26	1714870,02	-1714870,02	-29685188,2	-26093407,4	-22492210,4	-19512200,2	-18425437,2	
	2262,5	16067905,9	2957760,1	396848,76	-396848,76	20181867,2	18504395,8	16037354,1	13485130,2	14179097,4	
	4275	-22840729,5	4072208,56	921576,57	-921576,57	-33936209,1	-26872797,7	-28808109,5	-19736037,6	-21394175,6	
QB8	0	4789871,61	410158,84	5227036,23	-5227036,23	5090391,55	10234416,9	-962987,047	9104666,16	484617,265	
	375	-2619106,64	-515079,69	950435,34	-950435,34	-5167634,11	-5180051,74	-3394197,52	-4022586,83	-2491803,27	
	762	12754419,8	-620600,15	7028206,05	7028206,05	-17488364	-23408329,3	-7649086,58	-10704463,3	-6053662,38	
QB9	225	-19706320,9	178591,56	1993949,39	1993949,39	-23361838,4	-22016409,8	-18429327	-19530152,4	-15941226,3	
	1862,5	8823580,25	-151754,78	1508633,6	-1508633,6	10046488,7	10728516,2	7614186,82	9318792,38	5580552,09	

	2500	4415091,81	-482101,16	5065116,00	-5065116,00	4626547,02	948013,79	-1127010,8	6023180,49	576021,872						
2001	250	-4398062,24	7590021,83	-10450726,8	10450726,8	-5440079,47	3776690,11	2617039,8	314051,19	2206797,9	2989032,5	-6426146,2				
	1500	-405979,15	-295798,12	640497,89	-640497,89	-9615153,73	-3107688,64	-1983409,16	212951,269	-945331,756	-1059119,9	-5340616,8				
	2250	979814,06	167426,75	91793710,8	-91793710,8	1440060,02	34687206,6	-32196522,8	2849472,6	-29736208,8						
2030	0	-43035824	-1936718,6	-1114436,4	1114436,48	925629940,5	5480202,7	-662291707,1	39708134,4	-577001142,8						
	2250	10481007,6	6401148,39	-66566,05	66566,05	66071652,2	20079800,7	20217804,9	12001916,2	12119897,3						
	4500	-3367577,64	-2615233,65	90034,7	-90034,7	-8703490,14	-497778,49	-7942737,72	-2146823,25	-3916321,56						
2031	0	44003490	19031962,8	-2598691,83	2598691,08	-9220446,5	67223128,9	-11144990,2	-4721545,4	-3098448						
	2250	11109208,1	5657245,23	-140921,62	140921,62	72775922	16796804,7	17092840,1	9880307,73	10117016,7						
	4500	-7000535,82	-4691458,69	2616766,55	-2616766,55	-11749377,5	8943961,94	-1440923,9	3947170,36	-4667792,86						
2032	0	19220316,2	-9799240,75	962608,81	-962608,81	-9789426,2	2734282	2956479,8	1647644,8	-1922419,7						
	2250	16274372,3	7201409,94	238467,12	-238467,12	24860342,8	20092761,2	21501960,4	13960546,4	13561423,6						
	4500	-8206856,91	-5121511,7	-496722,41	496722,41	-15438004,5	-3666447,05	3403468,27	-2148940,6	-2059374,2						
2033	0	-20062361,4	-11964297,7	107103,5	-107103,5	-45773710	-34891632,1	-35116649,6	-20926712,1	-21113618,4						
	2250	15196041,1	7077564,46	235165,01	-235165,01	29561706,5	22590145,2	20398216	13588076,4	13466437,2						
	4500	-19457370,3	-9589204,93	362207,13	-362207,13	-38567065	-10971451,1	-20864287,1	-17186098,6	-17098902,4						
2034	0	-9660622,66	-6606516,78	4386475,43	-4386475,43	-31608193,2	-11574476,1	-20787977,5	-5017632,51	-12011488,3						
	2250	14650312,9	6919184,82	52640,23	-52640,23	2965492,4	21067516,1	21209600,8	12710098,8	12510284,6						
	4500	-35108149	-14926427,9	4279764,77	-4279764,77	-66000080,4	-55499770,2	-48470081,2	8544704,4	-27743716,8						
2035	0	-29625289,8	-13205623,4	-855024,63	855024,63	-55554473	-42999696,2	-43998261	-28154179,2	-28951317						
	2250	14489526,5	6651128,41	154486,58	-154486,58	47210557,2	31461107,5	-11175850,2	15108612,7	12828715,2						
	4500	-19713843,1	-9111784,32	-1648032,46	1648032,46	-37615467,5	-20961811	-29695432,7	-16091982,5	-16703825,1						
2036	0	-7924461,97	5271271,79	-3612409,84	3612409,84	-17943777,2	-13706119,6	-9286932,87	-13550229,7	-9780793,83						
	2250	12122202,5	5139166,14	86271	-86271	3430344,8	17853940,6	19426671,5	10990450,1	10031565,3						
	4500	-4103760	-1726107,8	-4009011,76	4009011,76	-59779975,5	-40198274,4	-62617199,2	-33035609,4	-40641860,6						
2037	0	-2301360,8	1108890,1	-583749,77	583749,77	-46309700,3	-34227466,5	-34801100,8	-21276514,9	-20185885,2						
	2250	16036496,3	7711078,24	372613,86	-372613,86	29781520,7	22637040,4	23109521,1	12667484,1	13404199,2						
	4500	-19519824,2	-9607154,99	-38521,86	38521,86	-38988237	-29467978,9	-29640674,8	-16503172,1	-17603611,5						
2038	0	-20791967,9	-9566708,21	485650,41	-485650,41	-48452319,4	-30477395	-37459187	-20275530	-19155085,2						
	2250	14921563	7068640,29	27757,1	-27757,1	29142868,1	22382706,7	22304416,8	13454579,1	13404418,3						
	4500	-22571013,3	-10467105,1	-450309,2	450309,2	-44118944,1	-34606199,4	-33602487,1	-20781487,3	-19926876,7						
2039	0	-39896072	-17538668,5	116184,66	-116184,66	-75905025,3	-59142079,7	-56594261,5	-35281898,6	-36000231						
	2250	11272190,8	5806756,2	-62250,09	62250,09	-22529438,9	-17887722,9	-17218447,5	-10855946,6	-10200996,8						
	4500	-10766983,8	-5826112,66	-209694,84	209694,84	-72652196,8	-57251857,5	-58748319,4	-36659902,7	-39477651,76						
202	250	-1463074,4	-4904109,63	-95003128	95003128	-25453479,6	-58776676,9	-16730507,8	-9489497	-19317139,8						
	1500	-5920426,23	-3624130,45	-849703,31	849703,31	-10091113	-9484180,24	-7619788,2	-5093115,96	-4663649,73						
2040	250	212409,61	7934481	3030079,3	-3030079,3	38624866	-35220986,6	-34607227,9	-20764515,9	-20742179,4						
	0	-4367596,6	-1870123,3	196238,42	-196238,42	-9203836,1	-6074562,4	-6002932,6	-3994873,8	-3912548,4						
	2250	13471408,4	6491430,22	15996,26	-15996,26	4668879,7	20317179,6	20241560,3	13156896,9	12091870						
	4500	-2883628,15	-2193717,9	270034,95	-270034,95	-8112713,75	-5399451,3	-5963984,77	-3991362,86	-2668406,77						
2041	0	-4306556,4	-1958294,3	-270844,12	270844,12	-8129652,6	-6305307,6	-6248436,6	-3999730,3	-3956310,9						
	2250	13566160,8	6505228,94	10717,93	-10717,93	2656118,6	20480581,7	20378974	13214493,6	12197201,2						
	4500	-3024465,55	-1223184,5	292279,97	-292279,97	-8769400,87	5914874,92	-6628462,78	2468952,03	-2906061,99						
2042	0	-4059498,6	-1773138,5	-13746,17	13746,17	-7708481,6	-6033186,2	-6038021,41	-3954788,1	-3962315,7						
	2250	11177494,8	5600877,26	-66923,44	66923,44	2237485,4	16956013,2	17181662,9	9997705,72	10131771,9						
	4500	-10256491,4	-5094750,55	-124111,7	124111,7	-21123006,3	-15408682,7	-15620028,1	-9342515,79	-9119114,73						
2043	0	-21090039,2	-9759799,21	499704,74	-499704,74	-40923977,6	-30953908,2	-31881999,3	-19345466,2	-19402050,6						
	2250	14924047,7	7057666,1	39804,02	-39804,02	29265538,6	22413022,6	22031620,6	13496556,9	13398828,6						
	4500	-2226794,3	-1083211,2	-411896,11	411896,11	-44113987,1	24009210,3	-33224208,5	20411000,2	-10670487,2						
2044	0	-23676221,7	11192766,6	810862,83	-810862,83	-46163479,8	-35046190,6	-34663078,7	-21768376,1	-20668870						
	2250	15295728,9	7111662,58	-280848	280848	29736816,2	22486200,8	23007984,6	14013419	14018944,4						
	4500	-19038681,1	-9430667,9	49166,86	-49166,86	-57496326,8	-28850876,6	-28964126,9	17686563,8	-17179063,2						
2045	0	-8467375,85	-5379578,1	-3963082,65	3963082,65	-1879213,8	-18167521,3	-9603067,96	-11206132,6	-4071143,97						
	2250	12162247,4	5696803,17	29509,01	-29509,01	24029192,3	19647703,4	18495704,5	10884480,8	10911384,6						
	4500	-40412547	-17268528,5	4002900,52	-4002900,52	-79105501,7	-54515548	-52564009,1	-32755861,8	-39991992,8						
2046	0	-29880142	-13237551	127034,23	-127034,23	-5607861,2	-42910563,6	-42175356,7	-26058057	-26286728,8						
	2500	14799456,5	6727178,22	230216,59	-230216,59	28511071,8	22129048,1	21544595,4	13517894	12103495,8						
	5000	-18098576,7	-8724767,65	336396,93	-336396,93	-3603790,4	-4721324,7	-7211066,2	-16258961,5	-16858778,3						
2029	250	-10697644,2	-1084585,25	97368197,2	-97368197,2	19924508	-1526407,1	-41189943,1	15001897,7	-34267467,3						
	1425	4988576,93	958954,43	95667,65	-95667,65	7058056,43	-2770280,25	5571777,27	-4402366,69	4670600,41						
	5000	-2465421,04	-1666214,15	-27568111,6	27568111,6	-3996146,89	12134470,8	15107799,8	-21612178,6	22692421,4						
2038	150	-3107491,6	-238918,12	-26407817,4	26407817,4	-4110046,79	2121490,15	24241466,1	-26663769	20978092,2						
	1375	5236100,22	-680116,76	196170,77	-196170,77	61990013,48	5648613,45	6238054,83	4986143,9	-4636056,51						
	2600	-3089258,56	120994,64	28600160	-28600160	-3612478,86	26011742	31268594,1	21140711,2	26839579,7						
2029	250	-713662,04	-1514546,19	31301306,5	-31301306,5	-3220064,75	30716987,4	-35073758,1	27655709	29940642,7						
	1425	3849817,01	1853798,10	-146661,41	146661,41	7278255,94	5499717,19	5766685,13	3924049,44	3845822,36						
	2600	-6740789,62	-1953065,62	-31524611	31524611	-11214516,4	-4129591,6	24782191,5	-34528660,6	22396499,2						
202	250	-14781549,4	-4928943,13	-26773760	26773760	-26623928,3	-5774076,1	17384179,9	-45499698,5	18899169,6						
	1300	-5898218,78	-2405990,42	-966171,77	966171,77	-10946405,2	-9970868,13	-7575642,47	-6009962,4	-4528843,21						
2030	250	407420,6	78186,35	-34061417,1	34061417,1	612978,806	36266146,8	-35282829,1	31021953,9	-33286696,8						
	150	-7387439,93	-1331853,14	-33981065	33981065	-10996609,9	-44966540,8	26664805,7	-37231654,4	29934282,6						
	1325	1702778,53	-1060995,45	1038267,73	-1038267,78	378941,516	2219122,93	-591239,413	2765941,69	356059,675						
2031	150	-42966934,72	-465559,69	38857600,8	-38857600,8	-21429283,3	21844299,8	-64336752,1	21842344	-44041007,6						
	1325	1803536,9	-1237136,91	-33216979	33216979	-5896585,17	-39827167,2	29926579,8	-33760444,2	26029481,6						
	2600	15169907,5	-5197944,43	1804221,03	-1804221,03	219636,224	2471001,46	-460862,716	3120083,14	179484,283						
2032	150	-2219776,67	-148223,56	-36484512	36484512	-26840240,2	17279532,1	-59327883,1	19180414	-46469707,6						
	1325	6198999,63	1020966,97	-33031712	33031712	-2693666,46	-47163061,5	32213513,7	-31705408,9	27731642,7						
	2600	-14474223,3	-4583459,23	1568013,84	-1568013,84	9072317,11	9141157,04	6809327,87	7009302,12	-4149878,21						
2033	150	-2140680,86	-148159,9	-36207739,9	36207739,9	-24702602,7	18499823,4	-57547408,3	19560164,9	-46617768,9						
	1325	6233244,62	1039990,69	-33222052	33222052	-2695755,46	-37270774,8	32496631,5	-31825973,2	27975322,3						
	2600	-14483905,5	-4651451,82	1636402,15	-1636402,15	9138078,53	9214036,21	6866540,69	7092682	4137158,13						
2034	150	-4144640,96	-490707,63	36494857,4	-36494857,4	-24863009,5	18910477,5	-57839023	19809556,7	-46898836,6						
	1325	1842119,71	-125924,95	-33053630	33053630	-5758705,04	-40025906,4	30094716,6	-30810448,6	26451097,4						
	2600	-15001332,5	-5326918,29	1655919,33	-1655919,33	196749,876	3402950,58	-994401,401	2146235,72	187579,767						
				36846469	-36846469	-20982964,9	17588052,7	-59787192,3	19939725,1	-46932121,2						







	2500	29109410	7826005.06	159709.62	-159709.62	-9869296.1	37118492.4	36978061.9	25469226.2	25161708.8				
	4775	0.0	9496309.42	-741509.64	741509.64	-546169916.6	-4410071.6	-42709937.4	-9006108.6	-9951337.1				
3EA	0	5658261.9	9290313.06	10405760.2	-10405760.21	9160867.18	27033946.8	19881114.8	23467204.1	12492279.2				
	2087.5	16197700.4	9187467.15	-1257735.12	1257735.12	21469437.8	2409787.8	25094903.7	14280270.9	14966361.9				
	4775	-6809586	-2966076.1	-20568721.3	20568721.3	-1249208402	11.6800681	75516268.3	70.5994764.7	-4178477.3				
3EB	0	-14715070.1	-5159240.29	38353776	-38753776	-25944071.8	-58905519.6	16247414.3	45020163.1	19820607.1				
	2087.5	17798468.4	6991615.07	28756802.2	-28756802.2	31084748.8	46711931.2	31210014.8	9889560.6	-2662147.69				
	4775	-7134474.01	26211391.67	76107042.8	-76107042.8	-12837468.2	72160025.8	-9221774	6.9997E+09	7691546.2				
3EC	225	15967061	-2267830.93	1750730.47	-1750730.47	22560001.3	-10959955.4	-20063054.7	-12724467.3	-15180247.5				
	2250	18873694.1	8184080.73	297941.01	-297941.01	19070362.3	23004840.1	23709960.9	17060018.6	18773721.9				
	4775	3070951.2	-4644123.19	-1152861.88	1152861.88	12276011.9	27396218.2	-24994168.4	19712054.8	-17618667.1				
3ED	225	1.9E+09	-3718405.77	-3370662.81	3370662.81	-23787942.2	37901153.7	-20784140.6	9062805.9	-14750512.3				
	2250	15529317.2	3190557.03	164020.06	-164020.06	23734471.9	19537779	18121287.9	-4134081.5	10683947.4				
	4775	-1664267.3	-3452269.83	1736042.29	-1736042.29	-5089536.4	24139761.6	-21966662.1	-17561648.4	-24590014.6				
3EE	225	20730482.4	-2045857.06	-826511.67	826511.67	-24744960.2	34712125.9	34652667	-16731820.8	-16800647.9				
	2250	18074201.1	3190780.13	-16467.9	16467.9	1476.108.3	20186639.6	20139267.2	14771969.9	14751656.1				
	4775	-20017305	4212895.14	44966.08	-44966.08	-31941099.4	-26992051.4	-30096579.1	-16750911.9	-16870742.9				
3EF	250	-2966660.03	-5103867.57	-10150144.96	10150144.96	-12842621.1	-29696490.5	-27224540.6	-21276671.2	-15781396.3				
	2087.5	15436757.6	2670086.63	1167967.43	-1167967.43	22704644.2	17021403.9	9342672.6	15139964	14628199.9				
	4775	-21112043.5	-3167646.56	1585460.11	-1585460.11	-11603402.7	-24546651	-37876109.5	-19474202.3	-21318012.4				

3CX1	0	-8970166.36	-5520324.59	5606409.44	-5606409.44	-1949.5837	-8346691	-10703050.8	2864472.23	-17299009.2	70708500.3	46892980.3		
	2250	14486806.5	6403281.48	180414.3	-180414.3	23446018.1	21907041.8	21637871.4	13100662.7	12847967	-7672617.46	-10366777.17		
	4500	-5396527	-1543686.6	-551558.13	551558.13	-6711761.7	-5745200.6	-4596340.8	3819987.3	-2566.1951.2				
3CX10	0	-9367490.57	-5542980.29	6203504.47	-6203504.47	-20104783	-8626751.4	-18191182.7	-5520569.64	-14648913.5				
	2250	14621216.4	6907630.31	176197.66	-176197.66	24537665.2	22001496.6	21637230.8	13127832.7	12910516.9				
	4500	-5479949.1	-1553470.5	-5581129.05	5581129.05	-6805.0944.4	-6726202.6	-4467682.1	-3680859.8	-2602.0827.6				
3CX11	0	-27093545.5	-12276184.9	600575.02	-600575.02	-52914091	-29972925.4	-41024734.6	-21963670.2	-24824709.7				
	2500	14246627.3	6226179.54	140040.71	-140040.71	27607732.6	21373160.2	20879258.8	12847833.3	12695844.6				
	4000	-21471710	-9612662.27	220497.97	-220497.97	-41146405.2	-31697766.8	-31097748.3	-19523978.1	-19126099.9				
3CX12	0	-7561520.39	-4275895.56	-4795305.18	4795305.18	-16674217.4	-17582823.9	-7510583.02	-1112204.3	-2489800.64				
	2250	12589224	6139607.64	200284.22	-200284.22	26013961	19226449.9	18874891	11612539.9	11169063.8				
	4500	-40448460	-17540951.2	5196833.88	-5196833.88	-75610081.9	-50595761.3	-54509117.6	-31724654.5	-41078955.6				
3CX13	0	-19875060.7	-9270715.79	167096.43	-167095.43	-37608402.9	-28503851.2	-20052751.6	-15938429.7	-17219101.6				
	2250	14739651.2	7197131.32	-307446.29	307446.29	28701787.6	21954003.3	22609870.5	12988065.4	13541499.7				
	4500	-25012463.9	-11403766.9	771987.67	-771987.67	-47654600.4	-37610244.7	-35886070	-23000857.2	-21516629.3				
3CX14	0	-17042174.9	-8795139.14	-135130.61	135130.61	-35008860.2	-28077116.5	-27450340.3	-15139475.1	-16837208.7				
	2250	14086301.9	7112834.82	-298569.01	298569.01	28252897.8	21171458.5	21798432.4	12304656.6	12922974.8				
	4500	-27242637.8	-12955764.6	-461987.18	461987.18	-50001892.6	-39349947	-38370280.9	-24934152.5	-24102656.6				
3CX15	0	30094477.1	9966832.79	166314.11	-166314.11	45143228	36761999	37199157.7	25923511.5	27234078.9				
	1125	17347409.8	5466748.24	-1018791.05	1018791.05	26249119.2	19495760.4	20496221.4	13865733.7	17159507.8				
	2250	-21664775.7	-5871994.8	-5672267.83	5672267.83	-34072917.3	-31063927.8	-24262166.3	-24803239.2	-16189257				
3CX16	0	-6322121.1	-1709977.1	-3914467.25	3914467.25	-10322589	-7840006.9	-9656040.1	-5037680.3	-6042210.2				
	1125	9266815.14	2247705.82	-1834183.41	1834183.41	-7481697.16	-3566005.13	-7447790.2	-1299188.55	-4590716.7				
	2250	30423093.3	8734416.64	-245090.61	245090.61	-16892508.3	-37104600	-37611000	-27139108.4	-27802271.3				
3CX17	0	-8908152.9	-4644746	-823001.81	823001.81	-70249778.8	-53811703.7	-55361666.8	-35603375.2	-35028617				
	1250	10231404.6	5174795.35	260548.83	-260548.83	22147069.6	16350131.6	16209163.2	9449955.24	8986671.95				
	4500	-14661778.5	-7120079.16	296207.31	-296207.31	-28995540.9	-22437478.4	-21815443.1	-13495167.2	-12929014.1				
3CX18	0	-3765953.3	-1526401.6	616990.7	-616990.7	-59611958.2	-53109265.4	-54824735.8	-33158378.1	-34620781.3				
	2250	10346214.8	5206822.87	262750.26	-262750.26	22404790.2	17066426.2	16604849.7	8899068.33	9120117.66				
	4500	-14754454.2	-7142034.11	-291390.16	291390.16	-29132599.8	-22547358.8	-21916439.5	-13541259.9	-13016767.6				
3CX19	0	-6048360	-1612702.7	-3871087.12	3871087.12	-10286777	-7880074.8	-9722145.6	-5288346.8	-6081360.7				
	1125	-3631005.73	-2272105.24	1876600.56	-1876600.56	-7972612.48	-3885047.43	-7824108.61	-1489892.55	-4086973.56				
	2250	10272574	5738618.66	-220165.95	220165.95	45556674.5	36976120.6	37436479.1	27041157.2	27443480				
3CX2	0	-24710390.6	-11080239.4	-274064.06	274064.06	-47330861.8	-36704493.1	-48128979.6	-22496800.2	-21992702.9				
	2250	14406570.6	7185552.78	356239.61	-356239.61	26780595	22603474.8	21554417.9	13013166.9	12870880.5				
	4500	-19524994.1	-9406367.18	937727.24	-937727.24	-38600146.4	-28458001.7	-30622268.9	-16773441.2	-18551369.2				
3CX20	0	29945563	8643974.79	-197308.37	197308.37	44974623.3	36637883	36926230.6	26827420.3	27674579.2				
	1125	17287971.2	5618899.42	1904345.64	-1904345.64	26719854.5	19475696.5	23475029.9	13945553.7	17270085.4				
	2250	-21634493.6	-5695814.95	-3871087.12	3871087.12	-34847612.3	-31814553.6	-24105530.2	-23775289.4	-16166799.1				
3CX21	0	-19870040.1	-8856249.59	-177673.71	177673.71	-39617453.5	-30127268.8	-29999448.2	-21030014.1	-17726391.5				
	2250	14160734.8	7107315.42	-993124.47	993124.47	28779686.4	21966103.3	21914179.3	13471869.3	13026553.3				
	4500	-25001390.9	-10747335.5	-409075.23	409075.23	-47187401.5	-36886719.3	-36949881.9	-21896422.2	-22106066.8				
3CX22	0	-23929809.1	-11242797.7	-812862.18	812862.18	-46784151.2	-36551402.6	-34944440.3	-22288386.1	-20805260.3				
	2250	14810389.2	7197116.18	-323369.66	323369.66	29271852.8	22000196.4	22582271.6	13039017.6	13520092.9				
	4500	-19556829.2	-9150741.2	166114.02	-166114.02	-38078181	29111651.4	29480480.3	-17540743.7	-17936746.9				
3CX23	0	-9611563.22	-5066356.29	-5047007.13	5047007.13	-10429557	-19129778.9	-5530061.82	-6209234.31	-2207731.46				
	2250	12027842.1	6156357.22	115295.64	-115295.64	24643742.1	18782842.2	18640721.4	11136644	10931111.6				
	4500	-19909960	-17436609.1	5277598.65	-5277598.65	-76829798.5	-52675014.3	-6095797.6	-31186149.2	-40695820.8				
3CX24	0	-28407948.7	-12830690.2	427805.28	-427805.28	-54777645.8	-41498960	-42496459.6	-26182126.4	-25952183.1				
	2500	14822638.4	5693895.95	290796.43	-290796.43	25497699.6	22194838.2	21584166.7	13602091.3	13078657.7				
	5000	-19005192.2	-9098907.38	165753.6	-165753.5	-37564215.1	-28392266.1	-28715203.7	-18066197.3	-17242997.8				
3CX3	0	-12503844.9	-6205801.52	816146.85	-816146.85	-29730806.3	20971292.4	-22686200.8	-10618610.2	-11967677.5				
	2250	15551871.2	7183573.57	141626.85	-141626.85	30145963.2	22666547.2	22969336.8	14124060	13859308.1				
	4500	-29599179.9	-11244860	-530869.14	530869.14	-53510475	-42265089.4	-41145831.2	-27118041.8	-26159491.1				
3CX4	0	-4000733.2	-1829344.5	-3497586.03	3497586.03	-8667370.7	-71060059.3	-6401312.8	-4034991.5	-4005462.1				
	2250	13010285.4	5719302.78	37280.07	-37280.07	24776126.9	19025451.2	19103739.9	11676704.8	11742506.9				
	4500	819475.16	5096761.56	-3420026.1	3420026.1	-71530446.24	-5625103.37	-7549956.16	3615661.13	-3346895.85				
3CX5	0	-15842722	-16312186.4	977879.16	-977879.16	-69110732.8	-62020088.5	-54075022.2	-31078564	-33138626.8				
	2250	11888684.4	6289589.33	-126526.96	126526.96	24031074.8	18301411.7	18554516.2	10592422.8	10809269.3				
	4500	-19583925.7	-9626028.66	1218925.05	-1218925.05	-25780166.7	-21143582.9	-18583630.3	-13022666.7	-11429500.6				
3CX6	0	-3514619	-1617958.8	865089.57	-865089.57	-8306040.3	-61285028.6	-5210171.7	-3080299.3	-3241019.5				
	2250	12130154.3	6332654.42	-193101.61	193101.61	24976402.2	18549763.6	18871377	10776347.5	11045930.2				
	4500	-19319916.1	-9672644.42	-1171292.63	1171292.63	-25140130.4	-21094918.1	-18925230.6	-13492087.9	-11360761.1				
3CX7	0	-4880903.7	-1845601.8	-3377466.92	3377466.92	-8786052.6	-72028612	-6483431.6	-4678780.9	-4070846.7				
	2250	12777555.3	6662056.25	-10070.66	10070.66	24440356.3	18791702.1	18809160.2	11498036.2	11611563.2				

	4500	957776.15	-4977582.93	3351035.44	-3351035.44	-6814001.21	179269.180	-721044.62	3976161.40	-2154194.36				
3CY28	0	-1004670.8	-1051072.9	952615.40	-952615.40	-511059732.6	2206097.7	-21280696.4	-31416849.6	-10968787.7				
	2250	15822132.6	2163142.99	1294604.62	-1294604.62	-8053966.0	90227.206.9	20855412.6	14176460	-19943407.3				
	4500	-26416248.8	-11170078.7	-603769.78	603769.78	-51870941.7	-41075967.4	16776040	-20111112.2	-26000220.4				
3CY29	0	-14410029.7	11165778.7	-270146.61	270146.61	-47148980.4	-26458454.5	-35821187.1	-29206867.9	-21719864.9				
	2250	14505406.9	7166991.99	376028.98	-376028.98	2690809.4	10428060.5	21639199.8	19420292.3	12743440.1				
	4500	-1971.2973.1	-6.13899.64	1012204.45	-1012204.45	-13559240.2	-20462159.3	-30696686.7	-19809302.8	-13579300.7				
3CY1	150	-60409.38.2	-25720400.46	1297850.67	-1297850.67	-10528666.6	-10704249.9	8699837.19	-5998812.58	-3650476.05	10799116.4	50251280.2		
	1350	10707702.1	3016631.59	-152625.7	152625.7	18361877.1	14773668.1	15094982	8471699.781	9846013.02	-9435120.24	16000711.6		
	4500	-5773641.92	2486419.21	90250[illegible].23	-90250[illegible].23	-13874491.1	-7361147.67	-9424612.58	-4011765.73	-6038409.74				
3CY10	250	1460019.35	-1756474.35	4124479[illegible].1	-4124479[illegible].1	-1070122.2	4018972[illegible].6	-434443[illegible]	3840[illegible].31	2961[illegible].4				
	1425	1619240.33	30015.30	8494409.12	-8494409.12	-910672.94	1960209[illegible].4	2207984.6	6102016.35	-6107674.07				
	2600	-7425041.99	-1672976.59	-2425961.7	2425961.7	-11696810.6	-8434596.4	16091462.4	-2861[illegible].1	16147764.5				
3CY11	150	-6046871.62	1812181.62	9478247	-9478247	10197928.9	-49079896.2	9720043.4	-4124[illegible].8	2981[illegible].8				
	1325	-5700727.49	-1009599.64	1699651.67	-1699651.67	-9402232.41	-5186701.4	-8756[illegible].7	3627[illegible].31	-6687041.15				
	2600	-1432[illegible].6	-3746[illegible].9	42975661	-42975661	-23265[illegible].6	2[illegible].262	-6[illegible].7	2[illegible].28	-5[illegible].3				
3CY12	150	-2861512.03	-1611022.65	-556946.41	556946.41	-50.9902.34	-4504581.21	-[illegible].36	[illegible].74	-2[illegible].10				
	1325	2016010.56	771279.36	1613566.28	-1613566.28	3667214.63	4831[illegible].9	[illegible].73	3[illegible].25	4[illegible].779				
	2600	-2[illegible].37	-832920.05	3704[illegible].05	-3704[illegible].05	-4128722.77	6826[illegible].36	-7[illegible].72	1[illegible].21	-5424711.56				
3CY13	0	-1146823.46	53769.25	403564.98	-403564.98	-1290167.35	6[illegible].63	-1[illegible].62	-642742.602	-1421[illegible].3				
	1250.5	705[illegible].11	-94547.56	-[illegible].6	[illegible].6	6[illegible].252	-5[illegible].24425	1[illegible].31	[illegible].849	1[illegible].05				
	2525	-1191[illegible].94	-[illegible].35	-1[illegible].82	[illegible].82	-1[illegible].17	-7[illegible].91	2[illegible].926	-2[illegible].37	-4[illegible].062				
3CY14	150	-2944111.41	-1009[illegible].96	-[illegible].48	[illegible].48	-5[illegible].03	-4[illegible].74	-1[illegible].83	[illegible].91	-2[illegible].99				
	1325	1995[illegible].85	[illegible].47	1677561.0[illegible]	-1677561.0[illegible]	3[illegible].82	-4[illegible].18	1[illegible].24	2[illegible].79	[illegible].308				
	2600	-2[illegible].52	-[illegible].61	3715[illegible].61	-3715[illegible].61	-[illegible].26	[illegible].87	-7[illegible].33	1[illegible].68	[illegible].4				
3CY15	150	-6022782.57	-1653[illegible].98	-[illegible].19	[illegible].19	-9[illegible].57	-4[illegible].3	[illegible].2	-1[illegible].5	[illegible].72				
	1325	-5[illegible].8	-1[illegible].17	1718[illegible].98	-1718[illegible].98	-[illegible].51	[illegible].29	-6[illegible].73	-[illegible].97	[illegible].72				
	2500	-1[illegible].72	-[illegible].83	4[illegible].1	-4[illegible].1	-[illegible].4	[illegible].87	-6[illegible].2	[illegible].2	-[illegible].79				
3CY16	250	[illegible].03	[illegible].61	4[illegible].5	-4[illegible].5	-[illegible].28	[illegible].8	-4[illegible].1	[illegible].5	[illegible].4				
	1425	3064641.95	30625.73	8739676	-8739676	3714571.51	12412975.2	-5940341.44	1081[illegible].2	-5116635.55				
	2600	-7008584.25	-1726634.46	-24799165.7	24799165.7	-11172720.2	-36029684.2	17049542.8	-3852[illegible]	16011606.6				
3CY17	250	5878720.65	436885.59	37264882.9	-37264882.9	7750841	45713734.5	-32642619.8	[illegible].2	-28047546.8				
	1425	6842111.93	2611961.5	6481162.64	-6481162.64	12389668.7	18436721.9	2950307.53	1197[illegible]	842863.461				
	2600	-7068770.45	-1956675.66	-24342579	24342579	-12021209.2	-35174328.6	16946087.3	-2954[illegible].2	15179425				
3CY18	250	-2232498.75	1677427.04	-[illegible].2	[illegible].2	-4402091.8	34541423	-41266[illegible].8	[illegible].6	-3443852.9				
	1425	1913675.81	682[illegible].86	-269176.72	269176.72	3813720.85	2604[illegible].81	[illegible].05	1490049.17	1954567.39				
	2600	-3153664.11	574852.89	26667138	-26667138	-4702377.98	-12222019.5	34615170.2	-2[illegible].1	30126128.5				
3CY19	125	6577232.37	1091373.59	2070034.51	-2070034.51	10919664.2	11707766.4	5680062.9	3[illegible].29	3036198.87				
	1250	10125728.8	1[illegible].9	1060116.23	-1060116.23	15141184.8	13465342.4	11269[illegible].3	1[illegible].6	8166061.29				
	2375	-[illegible].79	1[illegible].76	-[illegible].87	[illegible].87	-[illegible].37	-[illegible].29	[illegible].15	-[illegible].53	-[illegible].04				
3CT2	150	-5995791.05	-2867582.59	-824887.71	824887.71	-11495061	-9701479	-79692[illegible].61	-[illegible].88	-4659310.91				
	2250	10792746.2	3916144.22	-167367.77	167367.77	19057126.8	14770414.2	16103865.6	9571[illegible].68	9865091.68				
	4250	-6111540.69	2382211.61	610172.21	-610172.21	-9997087.72	-7054277.06	-8125638.71	-4141331.[illegible]	-5059641.61				
3CY20	125	-10833818.7	4514612.6	-2605194.63	2605194.63	-25214[illegible].3	-[illegible].1	-18162[illegible].4	[illegible].[illegible]7	11810361.7				
	1250	441848.15	263019.99	184098.96	-184098.96	9350[illegible].764	6963[illegible].277	6097[illegible].619	[illegible].437	231974.253				
	2375	7513196.86	1471728.63	2973392.62	-2973392.62	11370601.6	12481702.8	8167[illegible].41	9437933.03	4066826.02				
3CT21	125	-[illegible].6	1[illegible].51	938862.84	-[illegible].84	-[illegible].9	-4058919.76	-5[illegible].75	[illegible].89	-3479214.01				
	2250	6229190.25	3711096.41	-631621.48	631621.48	15812776.6	11484428.7	12810808	[illegible].79	7974736.08				
	4375	-1648[illegible].8	-[illegible].34	1462109.96	-1462109.96	2[illegible].9	2295[illegible].5	-[illegible].6	-[illegible].7	-[illegible].68				
3CY22	125	-10121290.8	-[illegible].35	1839962.09	-1839962.09	-[illegible].5	-[illegible].9	-17[illegible].9	-[illegible].57	-10764227.9				
	2250	9484422.97	5[illegible].68	236917.27	-236917.27	1[illegible].6	10500718.5	[illegible].2	[illegible].22	6286745.13				
	4375	-6063621.99	-2054[illegible].26	-1267037.65	1267037.65	-10563402.7	-[illegible].92	-6872526.44	-[illegible].77	-4218661.64				
3CY23	0	6584043.37	-[illegible].5	334092.34	-334092.34	-7151640.53	-5778652.29	-6480225.2	-[illegible].93	-5025313.14				
	2187.5	1068305.82	-162729.7	213123.03	-213123.03	1021588.5	-1161729.2	744181.208	1153285.52	769660.621				
	4375	-3660173.3	-[illegible].47	92164.23	-92164.23	-4[illegible].1	-3875424.97	-[illegible].96	-3114407.76	-2220093.47				
3CY24	0	-5501171.37	-[illegible].8	346038.45	-346038.45	-7022247.21	-5661442.11	-6286129.87	-[illegible].82	-5262498.85				
	2187.5	1066120.56	-[illegible].82	213974.43	-213974.43	1019984.68	1183805.64	739459.237	1151184.62	766040.544				
	4375	-3642394.02	-[illegible].6	91910.07	-91910.07	-4472875.01	-3780457.24	-3970458.52	-[illegible].99	-3351873.95				
3CY25	125	-10501192.3	-[illegible].15	1839725.2	-1839725.2	-[illegible].3	-[illegible].3	-17517854.9	-[illegible].06	-11006725.8				
	2250	9793570.82	3[illegible].82	332486.04	-332486.04	17516016.1	14003563.9	13[illegible].6	[illegible].37	9516060.1				
	4375	-4[illegible].51	-1[illegible].63	-[illegible].11	[illegible].11	-[illegible].3	-[illegible].05	-[illegible].92	-[illegible].46	-[illegible].66				
3CY26	125	-[illegible].48	-1434543.98	262161.52	-262161.52	-[illegible].34	-4750720.82	-5[illegible].01	-[illegible].36	-[illegible].4				
	2250	8059360.44	3293027.48	-240926.06	240926.06	14[illegible].5	11[illegible].3	11[illegible].3	7[illegible].94	7472714.85				
	4375	-15390[illegible].5	-5876177.48	-[illegible].6	[illegible].6	-27[illegible].6	-22594597	-20[illegible].6	14[illegible].7	-13[illegible].2				
3CY27	125	-16[illegible].4	6314227.06	1046186.29	-1046186.29	-3028[illegible].6	-24704186.5	2[illegible].4	-16[illegible].1	-14179[illegible].6				
	2500	[illegible].[illegible]5	-4[illegible].02	-2077[illegible].06	[illegible].06	[illegible].4	[illegible].7	[illegible].5	9[illegible].4	9547[illegible].04				
	4875	-5948697.01	-3073004.1	830895.49	-830895.49	-[illegible].5	-9537576.47	-[illegible]	-[illegible].07	-6821640.26				
3CY3	150	4799857.31	263062.16	40481093.6	-40481093.6	6139728.23	47504082.2	-37227204.4	4075[illegible].9	-3211211.7				
	1200	834815.52	472766.43	1261161.76	-1261161.76	17479884.91	2647930.42	-1109.27665	1866[illegible].66	-[illegible].16				
	2250	-10082649.1	-1791095.96	-37968773	37968773	-14866692.5	-52147146.9	23687277.4	-43[illegible].9	25097611.5				
3CY4	150	979098.66	-558749.85	42931058.1	-42931058.1	281275.612	46577000.9	-44677281.1	29519411	-37766403.6				
	1200	-4297970.31	-2243829.19	-734870.21	734870.21	-8747691.08	-7404901.15	-5861673.69	-4[illegible].56	-3206790.09				
	2250	-12172828	-3820098.46	-[illegible]	[illegible]	-20893540.2	-63116180	30128552.1	-5[illegible].7	29005174.3				
3CY5	150	1643681.95	-484465.55	43892047.6	-43892047.6	1181289.46	47346255.5	-44030044.4	40982156.6	-39023429.1				
	1200	-4971940.03	-2237375.19	-714942.82	714942.82	-9426128.34	-7900546.55	-6479186.53	-5[illegible].7	-3741297.49				
	2250	-10986051.7	-3980294.91	-46521932	46521932	-22150530.9	-66030711.6	29142345.6	-5[illegible].3	28200194.3				
3CY6	150	5[illegible].9	[illegible]	42[illegible].3	-42[illegible].3	[illegible].98	5[illegible].3	-3[illegible].4	42721[illegible].4	[illegible].4				
	1200	872262.77	497867.07	1334[illegible].82	-1334[illegible].82	1840287.94	2787371.65	14267.8714	1[illegible].34	-[illegible].546				
	2250	-10[illegible].5	-1924955.57	-[illegible]	[illegible]	-15459087.5	-54[illegible].9	29025082.3	-46[illegible].3	26407850				
3CY7	150	-[illegible].89	[illegible].84	[illegible].7	[illegible].7	[illegible].05	30648112	-[illegible].5	2[illegible].2	-[illegible].1				
	1425	[illegible].06	949[illegible].07	-526[illegible].05	526[illegible].05	9422[illegible].19	7[illegible].75	[illegible].33	[illegible].49	[illegible].42				
	2600	-4025161.41	-1[illegible].59	-[illegible].15	[illegible].15	-[illegible].24	-41[illegible].5	31171903	-34351[illegible].8	27[illegible].2				
3CY8	150	-[illegible].31	-[illegible].66	-[illegible].7	[illegible].7	-[illegible].01	-[illegible].1	29526[illegible].6	-[illegible].7	[illegible].1				
	1375	5777[illegible].77	54161.07	[illegible].66	-[illegible].66	7[illegible].24	6754061.36	5480[illegible].43	[illegible].89	[illegible].8				
	2600	-2[illegible].01	297640.8	32523741	-32523741	-2[illegible].32	92234[illegible].2	-[illegible].9	27[illegible].7	-[illegible].1				

4C04	250	2610456.0	-138279.20	-948719.81	-948719.81	-9601110.46	-8098047.5	-2013607.51	-1454176.1	-2810510.6		
	1625	61040234.75	2147604.64	6634018.7	-6634018.7	11031757.6	1454986.6	2112544.19	1666436.1	4123275.464		
	2000	-5676692.83	-1746805.08	-2063089.6	2163899.6	-1850807.9	-331241.47	-1621767.6	-1716109.1	-1609401.2		
5E01	0	-64711667.63	646791.81	-1147009.65	1197136.91	1294697.6	1171819.9	-1920472.2	-1601915.04	-1744866.61	47478640.02	-1941180.26
	1625	3844767.91	-1021771.96	-761507.68	761507.68	-444912.12	2140670.02	478985.04	377000.2	4146608.94	2771120.3	1.0748607.6
	2000	-4116719.16	643321.11	926724.17	-926724.17	-470826.04	4461419.12	3667294.37	-2466262.67	2411562.29		
5E02	0	64711667.63	-646791.81	1147009.65	-1197136.91	-1294697.6	-1171819.9	-1920472.2	-1601915.04	-1744866.61		
	1600	3844668.61	-1021612.46	-761540.95	761540.95	-444912.06	-2138004.9	4747040.97	2771120.3	4146604.02		
	2000	-4147115.06	1071.26	-924236.66	926724.68	-1437126.21	-4161678.21	1690130.12	-4600715.61	-3462691.64		
4A01	0	4078307.1	-1542.0264.07	1134867.07	1134867.07	-4.3e+07	-1464.4971	-24.9001022	29851.792	1071.69371	52992.076	2.16e+07.04
	1625	25670416.4	40799.30.55	80.0.736.6	-80.0.736.6	1701.2067.3	115203.04	6.8.6.6	4714.7.4	4.9466.69	2111.4.4.4	555.69.97
	2000	6.8.6.6.3	7.0.2.0.0.4	9.4.7.4.7.4	9.4.7.4.7.4	4.9.6.8.1.9	5.4.8.7.1.9	1.0.7.6.7.1.2	4.0.1.1.4.5.7	5.0.1.1.9.1.2		
4A10	250	-1.8.5.6.0.1.4	-4.4.5.0.7.1.6.2	1.9.3.9.7.7.3.9.4	1.9.2.7.7.3.9.5.6	-4.9.1.7.4.6.1.6	1.6.2.5.6.0.9.6.8	-1.4.4.9.9.0.6.8.1	1.3.4.1.0.7.4.4.2	2.0.6.1.5.3.8.1.6		
	1625	1.8.6.7.0.6.4.8.4	6.1.7.4.7.9.4.7.3.0	9.4.2.6.1.6.0.6.2.1	-9.4.2.6.1.6.0.6.2.1	4.0.8.3.0.5.2.1.7	1.2.1.1.6.8.4.7.2	-5.5.5.6.3.9.6.0.7.1	9.4.0.3.9.3.6.1.1	4.1.6.1.1.4.7.2.1.1		
	2000	6.6.8.1.2.6.6.4	9.9.0.2.5.4.4.9.6.1	-2.5.4.5.4.9.4.4.1.1	2.5.4.5.4.9.4.4.1.1	9.4.2.2.4.7.8.4.2.1	6.1.7.2.5.3.3.8.6.1	1.2.8.1.1.6.7.9.0.1	-1.2.4.6.0.2.6.2.1.6.7	8.2.1.1.4.4.9.4.2.1		
4A11	0	-6.1.3.6.0.7.9.1.7	-1.2.0.0.7.1.1.9.6	1.3.0.0.0.7.1.1.3	-1.3.4.5.0.5.9.2.1.3	4.6.7.9.2.0.5.7	9.6.7.1.0.7.7.4.5	2.9.6.1.8.2.3.1.1	-4.0.6.6.0.3.4.5.4.1	1.6.7.5.4.7.3.1.6		
	650	9.0.6.4.7.6.7.3.0	4.9.1.7.4.0.1.6.1	-1.2.8.0.5.4.6.9.4.1	1.9.6.2.5.6.6.6.2.1	1.6.4.0.7.7.9.6.7	5.0.3.0.0.1.9.0.4.1	2.6.4.0.2.4.1.1.1	6.1.7.4.2.1.1.3.1	1.9.5.1.2.6.0.4		
	1100	-1.8.5.6.0.4.1.6	3.0.9.0.1.8.6.1.9.1	1.0.1.1.3.4.5.0.9	7.9.1.0.4.5.0.8	-2.7.7.0.9.1.5.1.7	-6.3.7.0.8.7.2.0.2	1.8.1.0.7.4.0.1.6	-5.1.6.9.6.2.0.1.6	1.8.4.6.7.2.9.3.6		
4A12	0	2.1.1.2.7.9.6.8.7	1.1.0.7.0.1.5.1.2	1.7.9.1.4.6.7.8.8	1.2.6.1.4.6.7.8.8	9.0.6.3.7.6.0.4.5	6.9.4.7.1.0.1.1.1	2.9.2.5.2.0.1.9.1	4.0.5.6.4.6.2.2.7	1.8.4.5.8.6.0.1.3		
	650	-7.9.4.7.9.6.5.1	4.6.5.7.8.9.4.1.1	-1.2.6.1.3.6.7.6.1.1	1.2.6.1.3.7.6.1.1	1.8.2.4.5.0.4.8.7	-1.0.1.9.7.8.5.1.2.7	2.5.4.6.2.3.1.8.5	-1.4.0.4.0.2.1.4.1.9.2	1.8.2.7.4.6.0.3.1		
	1100	-1.9.1.0.5.6.5.2.1	-1.5.2.0.0.1.9.4.6	-1.9.1.9.5.3.1.8.1	1.9.1.9.5.3.1.8.1	2.8.6.6.5.4.2.1	-4.6.6.7.0.4.1.1.1	1.7.7.0.6.4.5.1.1	-1.5.2.4.5.7.1.6.0	1.9.7.0.3.2.2.6		
4A13	0	5.0.3.4.7.4.0.2	1.1.6.7.0.8.0.1	2.1.3.2.0.7.1.4.9	2.1.3.2.0.7.1.4.9	1.1.1.2.0.0.0.0.2	6.1.4.1.8.5.9.1.1	1.0.6.3.5.6.0.8.1	-2.1.6.0.6.7.9.6.6	5.1.6.1.8.6.6.4.4		
	975	1.4.0.6.2.1.6.0.4	1.5.2.6.0.1.4.4	-2.5.4.4.9.3.5.1	2.5.4.4.9.3.5.1	1.7.3.9.4.5.4.1	-1.7.3.9.4.5.4.1	1.0.7.4.7.4.6.6	-2.8.8.4.1.0.2.9.9	9.2.3.7.4.1.1.7		
	1750	-4.6.4.4.0.9.1	1.1.4.9.4.0.0.2	1.5.6.1.6.2.7.4	1.5.6.1.6.2.7.4	-2.6.9.1.1.4.5.1	-2.6.9.1.1.4.5.1	2.9.6.5.4.4.2.1	-1.4.3.7.7.4.1.2	9.5.1.6.2.0.7.6.4		
4A18	0	6.5.5.9.2.0.1.2	-2.0.1.1.0.8.7	-2.2.4.5.6.1.0.1.3	2.2.4.5.6.1.0.1.3	2.6.7.9.2.4.9.0	5.5.9.7.2.7.2.7.5	1.0.0.1.1.0.5.4.0	-1.8.8.5.2.1.0.7	1.9.2.4.1.0.2.1		
	975	1.1.4.5.5.2.0.7.2	1.0.2.6.4.1.3	4.7.0.4.0.2.0.1.1	4.7.0.4.0.2.0.1.1	1.2.1.1.2.0.0.4.9	-8.6.0.7.2.3.7.0.4	1.0.2.8.1.6.8.5.1	-1.7.5.4.0.3.9.4.3	9.4.0.4.7.6.2.0.6		
	1750	-5.1.2.1.1.2.3.2.1	-1.4.9.4.4.2.0.5	-1.6.5.6.2.7.3.2.1	1.6.5.6.2.7.9.2.1	-5.6.4.0.4.1.7.6.1	-2.3.3.7.6.1.1.0.5	1.0.2.9.5.7.5.8.1	-1.9.3.4.4.2.1.2	1.0.1.5.0.2.0.4.6		
4A17	0	1.2.2.9.1.7.4.6.2	-4.0.4.0.4.6.2.2.7	-6.4.7.6.6.4.2.1.8	-6.4.7.6.6.4.2.1.8	-6.2.1.7.4.5.0.6.8	-2.4.1.6.5.0.0.9.0	1.0.7.9.4.0.7.9.4	-1.4.0.1.7.1.7.4.2.7	6.6.5.5.6.0.7.1		
	2000	1.7.8.6.0.0.6.9.4	-4.0.7.8.7.1.3.0	6.9.8.2.2.2.0.6	6.9.8.2.2.2.0.6	2.6.9.8.7.3.6.7.0	2.2.4.0.9.0.4.9.7	2.0.9.7.8.1.5.1.1	1.5.7.8.1.6.7.4.8	1.6.7.1.6.0.7.4.7		
	4000	1.1.0.4.9.0.6.7	3.6.9.0.3.7.5.1	7.8.7.5.0.6.5.1	7.8.7.5.0.6.8.1	1.0.1.3.6.0.2.9.1	6.2.1.4.8.6.2.9.8.1	1.0.7.5.2.5.4.2	2.8.5.7.0.0.7.4.1	1.7.0.0.8.5.6.1		
4A18	0	1.0.5.1.6.9.1.2.0	4.1.4.7.0.7.6.7	8.1.8.2.7.6.5.7.6	-8.1.8.2.7.6.5.7.6	2.1.7.4.8.1.2.6.4	2.2.1.7.4.0.2.9.2	1.2.1.0.0.9.4.1.1	-1.0.2.6.7.5.1.6.4	1.0.1.5.0.2.0.4.6		
	2000	1.9.5.5.2.6.1.1	5.6.2.6.4.2.3.9.1	6.7.6.1.0.4.5.1.1	6.7.6.1.0.4.5.1.1	2.2.3.9.2.0.7.6.5	5.5.8.1.0.4.1.0.6	2.0.6.7.6.6.6.5.2	1.7.6.4.7.6.6.5.7	1.7.5.7.0.4.1.4		
	4000	1.2.0.6.4.8.5.6	3.5.1.0.4.2.2	-8.0.4.7.5.8.4	8.0.4.7.5.8.4	2.0.7.1.9.4.0.4.1	8.0.2.6.0.4.7.6.2	2.4.9.2.6.4.4.1.6	3.6.7.0.4.9.2.3.6	1.8.4.2.5.9.4.7.5		
4A19	0	1.2.0.5.7.0.7.7.2	4.4.6.5.6.2.3	7.0.2.2.9.4.6.1	7.9.2.2.9.4.6.1	-2.1.7.0.1.9.1.4.2	2.6.1.4.1.3.6.6.9	8.0.0.3.4.1.0.6.1	-1.7.6.9.1.1.9.3.4	9.9.9.7.7.5.6.0		
	2000	1.4.2.0.1.6.6.4	4.0.3.6.0.1.1.7	6.2.7.0.7.7.4.5.1	-6.2.7.0.7.7.4.5.1	2.6.4.2.2.1.2.0	2.1.1.4.9.0.3.4.1	1.9.9.7.5.1.6.4.1	1.3.4.9.7.1.1.6.2	1.2.7.1.9.5.4.6.2		
	4000	9.0.1.3.4.5.9.8	1.5.0.0.0.2.8.4	6.6.6.1.9.4.6.1	6.6.6.1.9.4.6.1	1.7.6.8.4.7.6.6	6.6.8.9.2.2.5.8	2.0.6.6.1.3.1.2	2.0.1.9.8.1.3.7	1.4.2.2.6.8.1.7		
4A20	250	-1.3.4.4.9.6.6.1	5.1.7.8.0.3.6	1.6.7.6.6.1.0.3	-1.6.7.6.6.1.0.3	-2.0.4.2.2.1.1.3	2.6.5.9.4.6.1.3.3	-4.1.6.6.1.1.2.2.0	-1.5.1.0.9.4.4.3.3	-2.1.6.2.7.6.3.4		
	1625	-1.7.1.7.8.1.3.2	-4.9.5.6.4.4.2	1.6.0.2.0.7.6	1.6.0.2.0.7.6	-2.0.4.2.2.1.1.3	1.1.9.6.4.6.5.8	-1.2.4.9.2.6.1.3	1.3.2.8.7.2.3.6	1.0.4.6.4.6.0.0		
	2000	1.0.0.7.2.6.3.1	4.1.4.6.0.7.3.2	8.4.3.7.8.0.1	-8.4.3.7.8.0.1	2.2.6.7.1.0.7.6	1.4.6.2.0.1.1.9	3.1.1.9.7.6.4.1	1.4.7.2.3.0.1.2	6.2.0.5.8.1.4.5.7		
4A30	0	1.2.0.8.2.0.6.8.4	-4.1.1.6.8.7.1.2	8.0.0.9.1.6.4.5.7	-8.0.0.9.1.6.4.5.7	2.1.5.6.6.2.7.4.1	2.6.2.0.8.4.2.5.5	3.4.5.1.6.0.7.6.5	-1.8.0.9.1.4.6.4.1	9.9.6.7.7.5.0.2		
	2000	1.4.7.8.8.1.0.8.2	4.0.9.4.0.0.2.4	6.3.8.2.4.0.1.1.2	-6.3.8.2.4.0.1.1.2	2.6.2.6.3.0.8.1.7	2.1.2.1.4.2.2.6.0	1.0.6.7.4.9.7.0.5	-1.0.2.9.3.1.1.9.7	1.2.7.1.6.0.8.5.2		
	4000	9.7.8.7.9.3.9.7.6	1.5.8.4.3.8.7	-8.7.2.1.6.7.6.9	8.7.2.1.6.7.6.9	1.7.4.8.1.2.6.9.5	5.5.9.0.7.4.7.9.7	2.0.7.3.2.8.9.1.5	2.0.7.9.6.6.6.7.1	1.4.0.6.7.6.5.5.0		
4A21	0	1.6.0.7.1.8.6.2	-4.7.1.0.7.3.6.1	8.3.3.7.8.6.1.1	-8.3.3.7.8.6.1.1	-2.5.7.2.8.1.1.1	2.6.0.1.7.9.7.0	1.1.4.7.1.3.0.4	2.1.0.8.1.4.4.2.5	6.0.6.6.2.3.0.3		
	2000	1.9.0.1.4.0.2.1.3	8.5.2.3.4.1.4.4	6.7.9.8.8.9.0.6	-6.7.9.8.8.9.0.6	3.1.6.4.8.2.4.6	2.6.2.6.9.0.5.1.3	2.6.1.1.3.2.5.4.5	2.7.1.7.4.6.1.0.2	1.4.2.6.1.6.9.1.2		
	4000	1.1.7.9.6.7.4.1.2	3.6.0.8.7.8.2.1	-3.1.9.4.6.1.1.4	6.1.9.4.3.1.1.4	1.9.2.2.7.5.2.1.2	7.1.9.0.2.9.0.6.5	3.4.3.9.9.1.0.2.4	-1.9.4.4.7.9.8	1.7.9.9.1.1.3.7.3		
4A22	0	1.0.7.7.2.0.0.6.9	-4.0.7.6.0.4.1.2	6.9.9.2.0.9.5.1.1	6.9.9.2.0.9.5.1.1	1.9.4.8.1.9.0.9.9	2.2.1.6.7.4.0.3.1	8.1.5.2.0.9.5.5.8	1.7.8.6.7.0.9.2.9	9.0.2.6.1.7.9.1		
	2000	1.0.2.7.0.0.1.2	-4.6.0.4.0.2.9	-7.4.1.9.0.3.4.2.1	7.4.1.9.0.3.4.2.1	2.2.7.6.5.6.4.1.5	1.7.9.0.8.0.3.5.9	1.9.1.5.0.0.0.0.1	1.3.1.1.5.1.0.9	1.2.5.0.7.9.9.1.0		
	4000	8.2.3.1.5.2.9.1	2.0.4.7.6.4.5.5	-8.1.6.0.7.4.7	8.1.6.0.7.4.7	1.9.4.0.0.7.9.5	2.8.3.6.5.1.0.2.2	2.0.9.5.1.2.7.9	7.3.2.8.5.1.6.9.1	1.6.7.4.6.7.5.9.8		
4A24	0	6.0.4.7.8.7.0.6.3	1.9.4.2.2.9.1.2	-2.4.9.3.7.0.7.2.1	2.4.8.2.7.0.7.2.1	8.1.4.9.1.8.5.6	4.0.3.1.1.4.4.2.1	8.2.4.4.8.1.8.5.6	-2.4.7.8.6.8.2.4.9	7.0.4.7.6.3.4.2.7		
	1300	5.0.7.7.2.0.3.5	1.1.0.2.9.8.1.6	2.7.9.5.6.2.0.4	2.7.9.5.6.2.0.4	7.3.6.8.1.4.0.2.8	9.2.9.0.7.9.2.5.4	3.4.4.0.5.6.6.2.1	-1.2.7.1.8.4.6.5	2.0.9.2.9.1.4.6.1		
	2600	1.1.9.6.7.6.9.7	6.9.2.6.1.7.1.8.1	9.0.5.0.7.1.4.1	-9.0.5.0.7.1.4.1	2.3.1.5.6.1.8.6.5	1.0.2.1.3.0.4.8.6	-6.7.0.0.6.1.4.9.5	8.2.7.4.1.0.2.5.4	-6.2.2.2.8.5.6.9		
4A25	0	5.0.7.3.0.9.7.4	1.9.0.5.1.6.1.6	2.4.0.4.0.6.7.6.4	2.4.0.4.0.7.6.4	8.1.8.1.9.7.4.6.1	4.0.3.6.9.4.0.8.1	8.2.0.0.2.1.4.9.1	1.0.0.6.1.3.5.8.6	7.0.7.1.4.3.9.4.5		
	1300	6.6.8.7.6.4.0	1.1.0.6.1.3.0.2	2.8.1.5.6.5.6.8.2	-2.8.1.5.6.5.6.8.2	7.8.7.6.1.8.4.4.3	9.4.4.6.6.1.6.5	1.4.3.2.7.7.2.8.4	2.1.1.2.4.7.2.3.9	2.0.4.4.7.9.1.0.6		
	2600	1.1.3.4.2.2.9.2.7	5.9.4.4.9.3.3	8.1.1.6.3.7.8.7.9.1	-8.1.1.6.3.7.8.7.9.1	2.3.1.3.6.0.4.1.3	1.0.1.7.4.2.1.2.1	-8.7.9.6.0.5.5.9.4.1	8.1.2.4.9.4.8.0.5	9.2.6.0.0.2.7.3		
4A26	250	-1.6.4.0.6.1.6.1.9	-1.6.1.5.4.7.8	2.0.6.5.2.7.9.3.4	-2.0.6.5.3.7.9.3.4	-2.0.6.6.3.7.3.5.6	1.9.9.2.5.4.5.1.6	-2.0.4.4.7.6.2.7.2.1	1.7.1.9.3.8.6.5.4.0	-1.9.9.6.2.9.8.4.0		
	1625	2.3.9.2.4.9.9.0.1	5.6.8.4.2.9.1.2.9	1.3.0.1.2.5.6.4.1	-1.3.0.1.2.5.6.4.1	6.7.8.0.4.8.6.4.2	1.8.7.1.2.7.6.1.3	-1.0.6.1.0.5.6.2.3	1.3.8.4.1.0.7.6.5	9.6.6.7.9.6.9.6.1		
	2000	4.6.0.6.9.0.0.7.9	1.4.9.6.8.1.5.1	5.7.0.9.5.6.8.5	-5.7.0.9.5.6.8.5	7.6.7.0.1.2.7.1	1.1.8.2.4.4.0.7	6.5.6.5.2.0.6.9.2.0.9	9.2.1.0.5.6.9.9.9	4.6.6.6.7.2.8.8		
4A27	0	6.0.7.1.9.0.9.5.2	2.0.9.3.7.0.6.1.1	1.6.2.0.7.7.1.4.1	-1.6.2.0.7.7.1.4.1	1.7.0.6.5.1.1.2.1	1.3.0.1.8.4.4.6.9	2.0.7.7.8.6.9.6.1	7.1.5.0.3.4.6.3.1	4.2.0.6.3.6.4.1.6		
	975	1.6.1.9.2.9.9.2.3	6.5.7.1.2.0.1.4	8.8.1.3.7.8.6.7	8.8.1.3.7.8.6.7	1.8.4.9.6.5.6.4.1	1.1.7.4.4.6.1.1.1	6.3.1.2.6.5.7.2	2.0.0.3.9.6.6.4	8.4.7.3.6.5.7.1.0		
	1750	4.6.9.9.0.0.9.7	1.0.9.4.7.0.2	1.6.1.0.4.7.3.4	-1.6.1.0.4.7.3.4	-1.7.1.1.4.4.6.1.6	1.9.7.0.3.4.4.1	-2.1.0.7.1.7.6.1	1.0.9.6.1.1.6.0	-1.9.6.0.1.4.9.1.0		
4A28	0	6.7.0.0.4.4.6.9	1.8.6.3.2.9.6.0	1.2.0.6.0.1.2.6	-1.2.0.6.0.1.2.6	9.7.1.5.4.3.1.1	9.0.4.6.3.9.1.1	6.0.2.7.6.6.2.6	8.2.1.6.6.5.7.6	3.6.7.2.2.3.4.9		
	975	1.0.3.5.6.6.1.9.1	5.6.0.0.1.2.5.6	9.0.9.9.9.7.0.2	9.0.9.9.9.7.0.2	2.6.5.2.4.0.4.3.4	1.1.4.2.1.9.4.7	7.5.9.4.5.2.0.6	9.4.2.7.1.5.9.0.4	4.0.7.0.7.4.7.6.1		
	1750	-4.6.2.8.7.0.4.7	-1.0.3.4.9.7.5.6.6	1.6.8.5.7.0.7.2.0	-1.6.8.5.7.9.7.2.0	-1.7.2.1.0.2.4.9.7	1.1.8.6.2.6.6.9.2	-1.2.5.1.8.6.6.4.1	1.1.0.0.7.4.1.5	-1.9.3.7.9.2.0.9		
4A29	250	1.4.0.6.0.7.0.9	-4.7.0.0.2.4.1.8	2.1.4.6.0.1.2.4.3	-2.1.4.6.6.2.4.0	-1.7.9.6.3.4.7.5.7	2.0.4.6.0.2.1.1.6	-1.9.4.0.2.0.1.0.6	1.8.3.1.6.6.1.2.1	-2.0.6.1.1.6.7.1.0		
	1625	2.4.6.6.0.5.4.6	5.0.7.8.1.5.2.2.7	1.0.6.6.0.1.7.1	-1.0.6.6.0.1.7.1	9.8.3.7.6.4.0.1.1	1.7.2.4.9.4.6.7.5	-1.1.0.0.6.6.0.0.6.1	1.4.6.7.4.6.0.4.6	-9.4.2.9.0.3.5.9.7		
	2000	4.9.0.1.2.4.7.4	1.1.0.6.9.1.2.7	6.5.3.4.4.0.9.1	-6.5.3.4.4.0.9.1	7.6.0.9.7.4.1.7.0	1.2.0.5.0.9.2.3.1	-9.3.7.9.0.5.2.2	9.3.6.1.0.0.4.7.7	-5.7.0.6.1.2.4.4		
4A3	250	-1.8.9.6.2.5.3.1.2	-6.1.8.4.6.9.4	1.9.3.4.3.7.6.8.4	-1.9.3.4.3.7.6.8.4	-2.1.9.4.6.1.9.9.0	4.7.0.4.6.2.8.3.1	-4.5.0.3.6.7.6.5.2	1.2.9.5.1.4.3.4.6	-1.3.4.9.6.2.5.0.7		
	1625	7.0.7.7.7.4.9.7.2	1.7.5.0.2.2.7.1	1.0.7.6.6.9.0.5.6	-1.0.7.6.6.9.0.8.0	1.1.2.9.6.4.2.3.1	1.5.3.6.4.0.9.4.9	-1.3.6.4.6.4.0.7.2	1.3.0.7.7.7.1.2.8	-1.1.7.5.0.2.1.7.9		
	2000	1.5.6.1.6.0.2.0.4.4	4.7.6.1.0.1.1.8	8.1.6.0.0.6.5.6	-8.1.6.0.0.6.5.6	2.5.0.9.2.7.0.5	2.5.0.9.1.1.0.2.4	1.2.0.1.2.4.6.9.9	2.1.4.2.9.9.0.6	6.6.3.6.8.4.5.6		
4A30	0	4.9.6.5.6.6.1.0.7	1.1.4.7.8.2.2.9.6	5.2.4.1.6.0.2.7.2	-5.2.4.1.6.0.2.7.2	7.8.6.4.0.7.0.0.2	1.1.7.9.2.0.1.7.2	6.7.4.9.5.0.4.4.2	-1.2.1.7.6.6.5.4.4.1	4.0.0.1.3.4.4.8.2		
	1375	2.8.5.3.3.9.6.9.1	3.9.4.6.4.0.4.6.6	6.6.6.7.2.6.2.5	6.6.6.7.2.5.2.5	3.6.7.1.2.9.1.5.8	-3.6.7.1.2.9.1.5.8	1.2.2.1.1.0.4.2.8	-1.9.8.6.1.7.9.9.7.6	1.0.1.9.4.2.1.1.6		
	2750	-3.7.0.5.0.6.5.0	-8.4.5.4.6.5.9.9	-1.8.7.1.6.0.3.6.7	1.8.7.1.6.0.3.6.7	-5.7.9.8.6.2.0.6	-2.4.3.4.1.4.0.7.5	1.4.8.6.2.9.7.6.9	-2.0.1.7.9.2.6.1.5	1.3.5.1.0.1.4.4.5		
4A31	0	6.0.8.4.7.2.9.5.1	2.0.1.4.4.8.5.6.4	1.5.5.8.3.4.9.4	-1.5.6.0.3.4.6.4	1.0.5.2.4.8.5.1.7	9.9.2.1.5.2.0.6.4	6.6.5.4.2.7.7.4.7	6.8.7.2.1.0.7.1.4	4.0.8.0.5.0.4.1		
	1375	1.9.5.6.9.6.4.3.0	9.0.6.4.9.2.0.1.5	-9.4.7.0.0.6.3	9.4.7.0.0.6.3	2.7.6.6.0.4.1.7.4	2.7.6.7.9.7.0.4.5	1.2.2.1.1.0.4.2.8	-9.9.6.1.7.9.9.7.6	1.0.1.9.4.2.1.1.6		
	2750	-7.1.4.0.0.9.2.6	-2.3.1.6.1.9.5.7.6	-2.0.4.0.9.4.3.1	2.0.4.0.9.4.8.4.3.1	-1.2.2.7.7.5.9.8.3	-2.1.2.0.4.4.2.2.5.1	1.1.5.2.6.5.9.3.2	-2.4.9.7.0.5.0.7.6	1.2.0.1.2.8.9.6.6		
4A32	0	1.1.3.0.0.6.8.3.1	3.1.2.0.5.6.1.2.1	-7.9.9.0.6.8.6.9	7.9.4.0.6.8.6.9	1.9.4.5.1.9.0.1.6	6.5.3.7.4.2.9.0.6	2.0.0.4.7.6.9.0.5	2.0.6.7.8.0.7.5.6	1.7.2.7.0.0.4.1.3		
	1375	-3.9.9.1.6.8.8.1	-1.5.9.0.3.2.0.4.7	1.3.0.1.4.4.8.6.4	1.3.2.4.4.4.8.6.4	-7.4.9.5.6.0.9.0.3.9	1.9.8.0.1.9.0.6.5	8.2.2.1.5.2.4.6.0.3	-1.5.6.0.0.5.6.5.0	8.4.1.6.4.4.0.1.8		
	2750	-2.4.0.6.6.6.0.0.2	-7.4.7.5.4.0.1.9	-1.8.7.9.0.3.8.6.9	1.8.7.9.0.3.8.6.9	-4.0.2.2.9.6.0.1.3	-6.2.0.6.7.0.6.6.9	-1.2.5.6.5.4.5.4.4	-2.3.5.5.8.4.9.3.4.4	-4.7.0.2.9.1.9.7		
4A33	0	1.2.6.4.1.4.7.5	-2.8.4.7.8.1.7.1	-8.0.4.0.4.7.5.8	8.0.4.0.4.7.5.8	2.0.9.5.6.6.7.5.2	8.1.6.0.8.7.4.9.4	2.5.0.6.1.1.7.4.1	4.0.4.8.1.1.6.7	1.8.5.2.6.0.3.9.0		
	1375	-4.4.0.6.0.7.4.7	-1.7.2.0.0.4.6.2.9	-1.0.5.4.6.0.6.0.1	1.0.5.4.0.6.0.1	-0.1.5.1.0.0.0.7	-2.0.5.6.8.1.7.0.9	1.9.0.0.8.2.6.0	-1.6.2.7.2.6.5.0	8.1.4.0.9.1.0.6.6		
	2750	-2.5.0.0.4.2.7.2.0	-8.0.6.7.6.7.2.0	1.9.0.3.8.2.0.4.1	1.9.0.3.8.2.0.4.1	-4.4.7.0.4.1.1.2	-6.6.2.0.3.5.6.8.3.2	-1.5.2.5.0.2.9.9.4	-4.8.8.0.6.2.5.2.2	-6.6.3.9.4.7.4.9		
4A34	0	9.0.3.2.4.0.5.9.6	3.6.6.4.0.2.1.6.6	-8.6.5.7.4.2.9.3	8.6.5.7.4.2.9.3	1.7.7.1.5.2.8.1.9	8.0.5.0.4.2.3.5.6	2.0.6.3.0.9.4.4.5	2.9.1.1.4.7.9.9.9	1.4.8.0.4.8.5.1.7		
	1375	-3.0.0.6.6.0.9.6	1.1.7.2.0.9.6.6.7	-1.1.3.4.1.4.1.0.4	1.1.8.4.1.4.1.0.4	-5.9.4.1.4.2.4.0.1.1	-1.7.0.1.1.4.2.0.7	7.8.4.6.6.3.8.1.3	1.0.6.3.1.8.2.2.0	7.6.8.2.7.1.5.8.1		
	2750	-1.9.6.2.0.3.7.2.9	-8.9.7.3.0.9.5.7	-1.7.0.2.5.9.1.2.4	1.7.0.2.5.9.1.2.4	-3.4.7.0.1.4.0.2.2	4.5.0.6.7.8.2.9.6	-9.0.1.4.3.0.6.8.1	-1.2.9.8.1.1.1.3.8.6	2.3.0.5.4.6.7.4.5		

4A35	0	51034429.1	13156376.7	-24846436	24846436	73450167.8	37606021.3	90111537.7	24230.07	90011878.9					
	1275	19267997.7	13761013.6	-7807523	7807523	-40052868.8	-12918000	60280041.2	-9504952.6	50520666.8					
	2750	-129397176	-36611524	-1126041.4	1126041.4	21127.3868	-239518666	-31259934.3	1007111.9	32266262.2					
4A36	0	47088221.7	10034405.2	-24011220.6	24011220.6	73870775.2	18150611.1	90982190.3	24499946	66482140					
	1375	18498568	10104407.9	-5000685	5000685	-30774041.2	-11004429.1	60202347.2	-9210409.6	54108662.4					
	2750	-12900274.2	-3649484.1	-1015075.2	1015075.2	21219.9027	-3047509.4	-3013011.5	-1357.09048	3736086.1					
4A37	0	49931074.6	9948244.41	-6721149.5	6721149.5	17705112.1	6774602.5	20889468	2651162.6	14940234					
	1375	-3150004.2	-1666096.2	-1160119.14	1160119.14	-5467208.61	-1724064.1	7877668.7	-1160105.206	7713017.4					
	2750	1978729.46	659540.13	-172012.222	172012.222	-1487479.08	405602.669	-902756.2	202.92771	2028.5216					
4A38	0	11960072.6	3626002.6	-810903.89	810903.89	2015208.76	1384988.7	3460.9387	3636.9350.9	1610446.9					
	1375	4741.9929	1756009.2	-137758.237	137758.237	-3449887.6	211957.7241	782057.74	-166679.2431	813051.86					
	2750	-252160.011	-111.1386	-19.0869.04	19.0869.04	-444.72505	-555.15.0015	-1.9.0.9.0	4.0244.134	-6.1.4.0.9.0					
4A39	0	5.0.6.9.0.7	3.0.3.7.0.4.4.2	-8.1.6.5.1.6.7	8.1.6.5.1.6.7	1.9.1.1.9.2.1	1.4.8.0.7.4.0.8	8.0.7.0.1.4.5	2.0.1.2.3.6.0.9.5	1.7.1.6.6.7.4.3	1.4.8.7.3.0.9.5.3				
	1375	-4830.7206	-1.2.0.1.0.4.4.7	-1.1.7.4.4.6.5.6	1.1.7.4.4.6.5.6	-8.4.6.9.4.1.6.2.7	-2.1.6.5.7.1.0.2.6	7.9.0.2.1.1.7.4.6	-1.6.5.8.1.1.0.5.7	8.2.4.7.8.0.9.6.1					
	2750	207.4.4.6.7.5.7	-7.6.1.9.9.7.4.4	-1.9.4.2.7.6.0.6.4	1.9.4.2.7.6.0.6.4	3.7.1.0.7.0.5.0.0	-4.4.4.8.7.6.2.0.2.1	-8.6.1.6.7.0.0.2.5	-3.6.1.6.1.4.0.7.1	1.1.9.0.1.3.4.4.7					
4A4	250	-1.3.6.6.1.8.7.0	-4.9.0.3.4.0.6	1.8.0.6.6.0.6.2.1	-1.8.0.6.4.0.6.2.1	-2.4.5.1.6.9.0.6.6	6.1.2.4.1.8.1.9.1	2.9.5.2.9.4.6.6.3	-4.0.7.6.5.7.1.3	2.4.6.6.6.0.3.9.1					
	1.6.2.5	7.2.7.6.0.9.2.6.7	2.6.9.7.7.0.1.2.8.1	1.3.1.4.1.1.9.1.1	-1.3.1.4.1.1.9.1.1	1.2.6.1.1.9.2.3.1	1.4.8.0.1.5.7.8.1	-1.2.7.6.4.6.1.1.1	1.2.4.7.4.6.6.3.1	-1.1.1.7.6.7.1.0.5					
	2.7.5.0	1.2.1.8.6.4.7.7.7	4.4.8.3.9.6.6.7.1	-1.9.1.2.7.6.0.6.4	1.9.1.2.7.6.0.6.4	2.1.1.4.7.0.5.0.0	-4.4.4.8.7.6.2.0.2.1	-8.6.1.6.7.0.0.2.5	-3.6.1.6.1.4.0.7.1	1.1.9.0.1.3.4.4.7					
4A40	0	6.0.3.1.9.6.6.6	1.9.0.7.7.0.2.0	1.3.7.0.0.0.7.1	1.3.7.0.0.0.7.1	9.2.6.0.0.0.4.0.4	2.7.5.1.1.6.0.0.2	5.6.1.3.6.1.5.9.5	6.0.0.0.7.0.7.5	3.0.3.1.5.4.9.5					
	1.3.7.5	7.1.4.5.0.0.7.1.5	-6.0.6.5.6.8.0.8	1.0.2.4.1.1.0.9.3	-1.0.2.4.1.1.0.9.3	7.2.6.0.2.7.6.3.4	-1.9.1.3.6.6.6.6.3	1.1.8.6.4.4.7.9.6	-6.7.0.9.4.4.7.7.2	1.2.1.2.5.0.1.2.9					
	2.7.5.0	-1.8.6.6.2.5.9.9.1	-2.0.4.7.6.2.1.6.8	-2.2.1.5.2.5.2.6.6	2.2.1.5.2.5.2.6.6	-3.5.1.5.6.0.1.0.7	-3.8.1.6.1.0.7.2.1	-2.6.5.1.2.7.6.5.5	-4.0.2.7.6.5.6.0.3	-3.8.1.6.1.4.0.7.1					
4A41	0	4.8.9.7.5.1.7.1.0	1.1.2.0.9.9.0.7	-5.6.0.3.4.3.7.0.1	-5.6.0.7.4.7.0.1.1	7.6.6.3.7.9.5.4	1.1.9.6.1.0.0.4	-4.9.3.6.1.8.0.1.1	9.9.0.9.5.2.7.4	-6.9.5.0.7.6.0.9.6					
	1.3.7.5	2.6.1.3.0.4.0.9.3	3.0.9.6.6.1.9.2.6	7.6.1.2.6.6.6.7.1	7.6.1.2.6.6.6.7.1	2.4.1.1.1.6.5.1.1	-1.4.4.2.4.6.6.0.7	1.2.3.0.6.1.1.6.0	-4.0.0.8.6.5.4.1.4	6.5.0.1.2.7.9.2					
	2.7.5.0	-3.7.8.6.2.0.9.3	-9.9.9.4.1.7.2.1.1	1.3.6.4.2.5.0.6.6	-1.3.6.4.2.5.0.6.6	1.9.6.4.8.7.5.6.8	6.1.4.2.2.3.0.0.9	2.5.4.4.6.0.0.9.1	-1.1.0.1.1.8.5.4.5	1.4.1.5.0.3.6.0.9					
4A42	0	4.8.6.7.6.8.8.4.4	1.4.2.7.9.8.6.4	-8.4.7.4.2.4.5.2	8.4.7.4.2.4.5.2	9.2.7.6.4.7.0.6.4	-1.9.4.2.4.6.6.0.7	1.2.3.0.6.1.1.6.0	-4.0.0.8.6.5.4.1.4	6.5.0.1.2.7.9.2					
	1.3.7.5	-1.8.6.6.2.5.9.9.1	-2.0.4.7.6.2.1.6.8	-2.2.1.5.2.5.2.6.6	2.2.1.5.2.5.2.6.6	-3.5.1.5.6.0.1.0.7	-3.8.1.6.1.0.7.2.1	-2.6.5.1.2.7.6.5.5	-4.0.2.7.6.5.6.0.3	-3.8.1.6.1.4.0.7.1					
	2.7.5.0	-3.7.8.6.2.0.9.3	-9.9.9.4.1.7.2.1.1	1.3.6.4.2.5.0.6.6	-1.3.6.4.2.5.0.6.6	1.9.6.4.8.7.5.6.8	6.1.4.2.2.3.0.0.9	2.5.4.4.6.0.0.9.1	-1.1.0.1.1.8.5.4.5	1.4.1.5.0.3.6.0.9					
4A43	0	2.1.3.7.3.0.4.0.9	1.7.8.2.0.4.1.5.1	3.8.4.3.6.3.6.8	3.8.4.3.6.3.6.8	1.9.4.8.7.5.6.8	2.3.4.1.1.9.0.4	3.0.9.9.0.2.9.5.4	1.4.0.1.7.7.7	2.1.0.1.9.9.9.7					
	1.0.0.0	-6.1.4.0.2.2.0.6.1	-3.7.8.4.1.5.8.7	9.6.7.9.4.7.1.1	-9.6.7.9.4.7.1.1	-1.7.0.1.4.1.1.9.6	-1.2.1.8.0.2.6.0	-1.4.1.7.4.0.3.9.6	2.7.6.6.7.4.6.1.8	-9.0.6.1.0.0.0.9.6					
	2.2.5.0	-4.7.5.0.0.0.3.9.4	-1.4.7.1.9.5.7.6.4	-4.4.6.7.4.2.6.2.1	4.4.6.7.4.2.6.2.1	4.8.4.8.6.9.1.5.1	-2.0.3.7.3.9.2.5.1	-6.2.3.7.2.4.6.5.5	-4.0.2.7.6.5.6.0.3	-4.9.7.1.8.2.7.3.0					
4A5	250	8.7.4.1.8.4.6.9.5	2.6.3.9.0.7.6.3.9	1.4.2.6.6.8.7.0.5	-1.4.2.6.6.8.7.0.5	1.4.7.1.2.7.4.3.4	1.8.1.4.7.6.0.1.3	-1.3.8.1.2.9.2.7.4	1.3.6.1.6.9.5.0.0	-1.2.0.6.0.4.4.1.6					
	1.8.2.5	2.1.4.5.8.4.7.6.3	-9.2.8.6.1.6.7.1.5	7.8.4.6.2.2.7.0.1	-7.8.4.6.2.2.7.0.1	6.2.7.4.5.0.3.5.8	1.2.4.1.9.1.2.0.7	-4.0.5.5.8.4.6.5.5	2.8.1.9.7.4.1.4.9	-4.2.2.9.4.5.6.6.6					
	3.0.0.0	2.9.2.0.7.0.6.2.8	1.1.8.2.0.5.6.1	1.4.2.3.5.7.2.6.2	-1.4.2.3.5.7.2.6.2	5.2.7.9.7.2.1.1.1	6.6.0.5.7.4.3.4.2	2.8.1.9.7.4.1.4.9	3.9.0.0.3.0.6.5.7	1.0.4.7.4.1.9.7.1					
4A50	0	2.2.9.9.4.0.6.9.4	7.4.0.2.8.1.6.9.5	2.2.9.6.2.2.7.6.8	-2.2.9.6.2.2.7.6.8	3.9.2.1.7.8.6.6	2.3.3.2.0.9.6.2.4	2.8.4.9.8.8.4.1.4	2.2.4.9.1.8.2.6.5	1.6.2.5.8.9.6.6					
	1.0.0.0	-1.1.7.6.9.2.0.3.6	-4.4.2.0.7.9.2.1.2	1.0.0.4.4.1.8.8.4	-1.0.0.4.4.1.8.8.4	2.1.1.8.0.2.9.6.5	-1.6.4.0.0.8.4.2.1	-1.7.6.8.9.9.6.3.1	-1.6.8.2.4.6.5.5.1	1.1.4.0.6.2.7.8.4					
	2.0.0.0	-5.0.6.5.4.4.7.3.1	-1.8.0.7.4.6.2.1.5	-2.6.7.3.6.0.3.1.1	2.6.7.3.6.0.3.1.1	5.2.7.9.7.2.1.1.1	6.6.0.5.7.4.3.4.2	2.8.1.9.7.4.1.4.9	3.9.0.0.3.0.6.5.7	1.0.4.7.4.1.9.7.1					
4A52	0	-4.5.6.6.7.4.7.4	-1.4.9.1.1.9.0.5	-2.6.7.3.6.0.3.1.1	2.6.7.3.6.0.3.1.1	7.7.6.1.1.6.5.7.6	6.1.8.5.2.3.8.9	-6.1.2.4.8.7.9.6	-4.1.7.6.3.4.1.7	-4.0.8.4.2.1.1.5					
	1.1.2.5	-9.1.0.0.0.3.9.3.5	-2.7.8.7.6.9.8.0	1.7.4.0.6.1.2.6.2	1.7.4.0.6.1.2.6.2	-1.6.5.6.2.4.5.2.9	-1.2.7.5.2.0.6.6.5	-1.0.1.1.6.7.8.0	-1.7.7.9.3.5.4.1	-5.6.0.6.1.8.3.7					
	2.2.5.0	2.0.2.6.8.9.9.8.1	5.3.1.7.9.7.2.4.5	-3.1.4.3.9.7.4.1.8	3.1.4.3.9.7.4.1.8	3.6.3.0.0.7.9.1.3	-2.4.4.0.0.7.5.5.3	2.1.1.7.8.9.2.0.2	1.5.3.6.3.9.0.0.2	2.1.1.1.6.3.0.7.7					
4A6	250	9.1.0.5.8.2.7.1.2	2.7.7.0.1.0.8.4	1.4.3.0.6.7.0.9.7	-1.4.3.0.6.7.0.9.7	1.2.6.3.9.9.7.5.6	1.6.2.7.1.7.1.7.0	-1.0.9.5.3.7.1.4	1.3.7.2.2.5.6.3.2	1.2.0.8.3.6.1.2.5					
	1.6.2.5	3.1.0.3.6.5.1.0.4	8.1.4.3.2.0.5.6.9	7.8.6.5.9.0.1.8	-7.8.6.5.9.0.1.8	5.2.7.9.7.2.1.1.1	1.2.4.4.6.6.2.2.5	-1.0.1.1.6.7.8.0	-1.7.7.9.3.5.4.1	-5.6.0.6.1.8.3.7					
	2.2.5.0	2.0.2.6.8.9.9.8.1	5.3.1.7.9.7.2.4.5	-3.1.4.3.9.7.4.1.8	3.1.4.3.9.7.4.1.8	3.6.3.0.0.7.9.1.3	-2.4.4.0.0.7.5.5.3	2.1.1.7.8.9.2.0.2	1.5.3.6.3.9.0.0.2	2.1.1.1.6.3.0.7.7					
4A7	250	-1.3.9.1.3.9.8.9.4	-4.9.1.6.2.0.8.1	1.8.5.0.4.8.8.8.0	-1.8.5.0.4.8.8.8.0	-1.4.0.0.2.7.2.0.2	2.0.7.8.0.5.8.6.5	-2.8.7.4.8.1.6.9	-4.1.8.6.7.9.0.7.2	-2.9.2.0.0.9.7.1.8					
	1.6.2.5	7.1.6.0.0.3.1.2.1	2.7.8.1.7.6.9.8	1.0.2.7.3.3.9.8.1	-1.0.2.7.3.3.9.8.1	1.2.9.6.8.9.4.2	1.4.8.4.9.7.7.6.7	-1.0.2.2.5.6.0.6.6	1.2.0.2.3.6.0.8.1	-1.1.0.0.5.9.2.8.6					
	3.0.0.0	1.2.2.2.6.1.4.7.9	-4.9.8.4.2.7.7.4	7.9.8.1.6.6.8.7.1	-7.9.8.1.6.6.8.7.1	2.1.9.6.7.7.1.1.3	6.6.4.0.5.0.0.4.5	2.8.1.9.7.4.1.4.9	3.9.0.0.3.0.6.5.7	1.0.4.7.4.1.9.7.1					
4A8	250	-1.3.8.0.0.3.9.7.7	-4.0.1.2.2.1.1.2.7	1.9.7.0.0.9.4.8.3	-1.9.7.0.0.9.4.8.3	-3.0.7.2.0.0.7.1.2.1	-2.7.7.4.4.6.9.2.7	-4.5.1.4.4.4.6.2.3	1.9.7.7.3.6.6.2	-1.0.4.8.4.0.4.2.5					
	1.6.2.5	7.4.0.1.2.2.7.3.2	2.1.9.3.9.2.9.3.6	1.4.0.1.7.6.4.1.5	-1.4.0.1.7.6.4.1.5	1.2.4.8.7.7.6.9.7	1.5.7.1.1.2.7.3.8	-1.3.7.2.5.6.6.3.4	1.3.2.2.4.0.8.7.8	-1.1.9.4.2.4.7.6.9					
	3.0.0.0	1.6.2.2.7.9.7.5.5	4.3.6.8.1.4.7.1	9.3.9.4.1.0.2.8.3	-9.3.9.4.1.0.2.8.3	2.6.9.3.2.1.5.5.5	2.9.2.6.3.5.5.6.6	1.1.7.6.1.9.8.8.6	2.1.2.0.5.8.9.8.5	6.2.0.4.4.6.9.4.3					
4A9	250	-1.3.9.1.9.6.6.8.3	-5.0.5.9.3.9.4.0	1.7.3.0.9.6.7.8.0	-1.7.3.0.9.6.7.8.0	-2.4.7.8.9.5.9.4.5	-1.2.2.2.1.6.6.5.8	-3.7.5.7.2.5.0.9.5	3.0.5.1.0.0.2.2.9	-2.9.1.0.6.4.1.2.2					
	1.6.2.5	4.0.6.9.2.6.0.5.1	2.5.0.0.3.4.1.0	1.1.9.0.8.6.7.8.0	-1.1.9.0.8.6.7.8.0	9.3.8.0.1.2.7.9.4	1.2.6.3.6.2.4.4.5	-1.2.4.0.7.9.7.6.0	1.0.9.0.8.3.3.8.6	-1.0.7.3.4.2.7.9.3					
	3.0.0.0	1.0.9.2.2.9.9.8.2	4.1.4.3.2.9.8.9	6.6.2.7.8.7.5.6.3	-6.6.2.7.8.7.5.6.3	1.9.6.6.6.2.5.6	2.2.3.0.1.2.0.3.9	8.3.9.2.1.1.9.0.5	1.5.7.5.9.0.0.8.6	3.0.2.9.7.9.0.4					

4B1	150	-1.9.2.8.5.6.4.8.3	-2.0.0.3.9.4.9.7.5	2.3.6.4.6.3.1.0.7	-2.3.6.4.6.3.1.0.7	-2.7.6.2.9.0.4.7.6.8	-2.0.4.1.6.9.0.0.5.3	-2.6.3.8.2.5.2.5.2.1	-1.6.2.2.8.9.1.6.2	-1.9.4.8.6.2.5.1.7.1	4.7.2.6.3.0.7.9.3	7.9.0.2.4.9.8.2.5			
	2.2.5.0	1.6.1.2.2.2.0.1.9	3.7.8.4.6.3.4.5	2.3.9.7.5.3.0.7	-2.3.9.7.5.3.0.7	4.9.4.2.5.0.9.1.3.3	4.3.5.4.5.0.2.9.4	-6.8.0.3.1.1.6.3.0	7.0.5.8.7.9.1.5.3	-3.6.0.6.8.7.5.7.5.2	-4.9.9.1.7.3.4.8	-1.0.4.5.3.8.2.5.2			
	4.3.5.0	-2.1.6.3.3.8.5.9.5	-2.3.9.5.1.6.6.2.7	2.4.3.0.4.2.9.8.7	-2.4.3.0.4.2.9.8.7	-3.0.0.2.5.6.8.0.1	-2.7.8.0.1.5.0.6.5	-2.7.7.3.5.4.0.6.2.1	-1.7.4.6.8.3.4.8.6	-2.1.8.3.3.1.2.2.4					
4B10	250	-1.9.4.1.4.1.3.4.4	-3.8.7.7.2.9.4.2	-1.5.9.3.4.1.9.3	1.5.9.3.4.1.9.3	-4.5.5.9.8.7.4.7.9	-2.0.6.8.7.2.8.6	-2.0.5.8.2.1.1.0.4	-1.4.9.1.6.1.7.3.4	-1.4.6.9.0.0.5.7.8					
	2.2.6.2.5	1.5.9.7.5.6.5.5.3	3.0.9.5.8.4.5.1	1.4.1.6.9.9.3.6	-1.4.1.6.9.9.3.6	2.4.1.2.4.1.3.9	1.8.8.4.8.7.9.6.3	1.9.6.5.1.2.2.7.7	1.4.0.0.5.8.1.9.2	1.4.2.5.0.5.6.0.4					
	4.2.7.5	-2.6.1.6.5.4.0.1.2	-3.8.0.1.6.5.1.2.8	4.4.2.7.4.0.7.2.1	-4.4.2.7.4.0.7.2.1	8.0.0.0.1.7.3.6	-2.9.3.9.0.7.0.4	-3.0.1.2.0.4.5.9.6	-2.1.2.6.0.3.9.4.4	-2.0.0.4.7.9.2.7.7					
4B11	250	-1.7.8.6.0.3.1.6.6	-4.0.9.0.1.2.2.4	4.5.6.6.6.1.9.1	-4.5.6.6.6.1.9.1	-2.7.9.7.6.7.1.9.4	-2.2.1.3.0.9.4.4	-2.3.0.9.3.9.7.2	-1.5.6.8.1.2.4.6.4	-1.6.4.6.2.7.6.5.5					
	2.2.6.2.5	1.6.7.8.7.7.7.8.1	3.0.4.3.5.6.1.2.1	1.1.4.7.9.1.1.1	1.1.4.7.9.1.1.1	2.2.8.1.6.3.5.9.9.8	1.6.7.3.3.4.0.7.7	1.9.3.3.6.1.9.4.6	1.4.4.1.6.5.3.2	1.4.1.0.1.4.6.8.4					
	4.2.7.5	-2.4.0.9.6.0.2.7.7	-5.0.3.1.2.4.0.6.4	2.1.7.8.6.8.1.8	-2.1.7.8.6.8.1.8	9.6.4.4.8.7.0.4.6	-2.8.5.7.6.5.6.2.1	-3.2.0.1.0.8.9.4.6	2.0.1.1.8.9.4.2.1	-1.2.1.4.1.4.6.8.4					
4B12	225	-2.0.4.8.2.1.0.1.3	-3.1.0.0.0.4.0.2.6	1.7.8.9.1.0.2.4	-1.7.8.9.1.0.2.4	-2.8.5.4.0.0.6.1.2.1	-2.2.6.2.1.2.0.5.7	-2.4.0.1.1.0.7.2.1	-1.7.7.3.3.6.6.9	-1.9.1.0.3.1.4.7.4					
	2.2.5.0	1.5.7.1.2.6.8.1.2	3.2.0.0.7.0.3.7.9	-1.2.8.9.4.1.8	1.2.8.9.4.1.8	2.3.9.7.6.0.4.0.5	1.9.2.8.2.0.9.1.4	1.9.7.8.3.6.9.2	1.3.9.3.5.9.6.6.0	1.4.3.4.7.4.6.0.7					
	4.2.7.5	-2.2.4.9.8.7.2.6.4	-4.1.4.7.7.7.0.8	1.2.3.6.0.9.7.6.0	1.2.3.6.0.9.7.6.0	-3.0.6.1.2.0.7.7	2.9.3.0.2.4.7.6	-2.9.0.1.7.4.0.6	2.1.3.5.0.2.3.2.2	-1.9.1.2.0.4.9.2.3					
4B13	225	-2.3.5.0.0.0.4.3.1	-3.4.5.6.9.6.1.1	-4.8.5.2.9.9.0.7.7	4.8.5.2.9.9.0.7.7	-3.0.5.9.9.1.2.6.9	-3.3.0.1.8.4.6.7.3	-2.2.9.2.7.4.1.7.7	-2.5.5.1.7.6.3.1.7	-1.6.7.8.2.4.4.5.3					
	1.9.6.2.5	1.8.4.5.0.4.9.9.5	2.8.6.7.2.2.5.0.2	1.2.5.6.6.2.6.9	-1.2.5.6.6.2.6.9	2.7.2.2.0.1.5.9.5	2.2.5.4.4.0.9.9.2	2.2.0.0.1.1.0.6.3	1.7.0.8.7.5.4.6	-1.5.0.6.1.3.6.3.1					
	3.9.0.0	1.2.1.1.6.6.6.1.3	-3.1.6.0.0.2.1.6	5.1.0.4.2.0.0.4	-5.1.0.4.2.0.0.4	1.4.8.5.7.0.2.2.6	1.6.1.6.6.2.1.1.5	2.4.7.7.4.7.2.6.4	5.0.0.0.2.7.8.1	2.6.7.3.6.0.3.1.1					
4B14	225	-2.4.8.9.3.7.1.1.0	-3.6.7.5.0.3.2.2.5	1.2.5.5.6.0.5.7	-1.2.5.5.6.0.5.7	-3.5.5.1.2.9.6.5.6	-2.8.0.7.2.7.0.0.4	-3.0.7.0.0.4.7.2.4	-2.1.0.8.5.2.9.5.6	-2.0.0.8.0.3.6.5.8					
	6.1.2.5	-5.4.5.3.2.8.9.1.3	-1.5.6.5.0.1.6.5.7	2.4.1.7.8.2.3.5	-2.4.1.7.8.2.3.5	-9.0.4.7.9.7.1.8.7	-3.6.1.6.1.7.6.3.3	-1.0.7.9.6.0.8.4	-1.8.9.1.4.1.3.0.7	-1.7.9.4.0.0.1.5.7					
	1.0.0.0	1.1.4.3.7.0.4.3.2	3.1.6.3.7.4.4.1	5.6.7.0.0.4.1.4.4	-5.6.7.0.0.4.1.4.4	1.4.3.6.0.1.3.0.9	1.0.2.6.1.4.1.2.7	6.6.4.0.2.6.1.6.7	1.5.3.9.7.1.9.6.2	5.0.7.1.1.1.1.6.8					
4B15	0	1.7.5.0.9.5.1.4.3	4.1.2.8.9.6.6.5	5.0.9.9.6.8.7.8.1	-5.0.9.9.6.8.7.8.1	2.1.8.7.2.0.5.2.7	2.4.0.2.6.0.8.0.2	1.3.1.6.5.0.0.5.8	2.0.2.8.7.9.2.0.3	1.1.2.4.9.8.4.4.3					
	1.9.3.7.5	2.0.1.3.6.4.6.9.8	2.0.9.4.6.0.0.3.4	4.6.7.4.0.3.4.6	-4.6.7.4.0.3.4.6	2.7.6.7.5.1.7.2.1	2.2.5.8.9.9.1.0.5	2.3.7.0.0.5.2.3.9	1.7.5.8.8.1.3.2.5	1.8.6.8.6.5.1.2.7					
	3.7.7.5	-3.6.2.0.4.5.7.7.2	-4.9.3.6.3.2.3.4.5	-6.1.2.4.5.5.4.7.2	6.1.2.4.5.5.4.7.2	-5.1.3.7.9.6.0.5.1	-4.0.1.4.1.9.0.4.8.3	-3.8.2.9.0.3.4.4.5	-3.8.1.2.3.2.1.4.9	-2.0.3.9.9.0.1.6.5					
4B16	225	-1.8.4.4.4.5.0.0.1	-9.7.3.0.3.9.2.3	4.0.6.9.0.9.0.2.5	-4.0.6.9.0.9.0.2.5	-2.3.6.8.0.3.5.8.6	-1.8.0.1.3.7.9.6.3	-2.4.4.5.0.0.7.5	-1.2.9.3.7.9.4.0.8	-2.0.2.6.2.3.0.3.4					
	6.1.2.5	2.3.6.6.6.1.0.4	9.5.6.0.2.8.6	4.6.3.4.4.0.1.0.6	-4.6.3.4.4.0.1.0.6	4.0.0.7.1.3.4.0.8	5.0.6.0.2.7.8.7	-4.4.5.2.9.0.4.4.6	4.2.6.8.6.5.7.1.6	-3.0.9.5.0.6.6.2.9					
	1.0.0.0	1.6.6.0.9.4.9.2	9.3.4.1.7.7.2.6.5	4.9.9.9.7.1.2.6.7	-4.9.9.9.7.1.2.6.7	2.1.4.2.4.0.7.4.9	2.3.5.7.1.4.1.2.9	1.2.0.7.2.0.1.6.3	1.9.4.4.7.3.8.4.2	1.0.4.4.7.9.0.1.4					
4B17	225	-1.9.6.5.1.7.2.3.1	-1.4.0.6.0.4.2.7.6	4.2.3.1.2.7.5.4.9	-4.2.3.1.2.7.5.4.9	-2.6.8.3.4.9.9.6.1	1.7.4.1.7.0.7.0.4.3	-2.6.5.1.2.7.4.0.9	-1.3.7.8.9.4.2.6.8	2.1.5.8.4.9.8.9.7					
	6.1.2.5	4.0.0.4.8.0.2.1.1	-2.4.0.4.2.0.3.6.5	4.0.5.0.5.6.3.9.7	-4.0.5.0.5.6.3.9.7	-9.7.7.6.2.6.1.2.3	4.3.3.1.5.3.6.0.3	-5.6.2.2.3.5.6.6.8	3.9.6.7.5.2.6.6.8	-4.7.9.6.5.5.7.3.5					
	1.0.0.0	1.5.4.1.4.6.1.3	6.3.7.1.4.9.3.6.5	5.2.4.0.9.4.2.4.6	-5.2.4.0.9.4.2.4.6	2.0.8.1.2.9.7.4.5	2.2.6.0.1.1.8.4.3	1.2.7.8.7.1.0.5.2	1.9.5.7.9.1.8.9.9	1.0.9.0.7.1.1.0.4.4					
4B18	0	1.7.4.4.6.0.7.6.4	1.5.8.8.7.5.0.8.5	5.0.6.6.9.9.6.9.5	-5.0.6.6.9.9.6.9.5	2.1.1.8.7.9.7.2.3	2.4.1.0.2.8.2.5.3	1.2.8.0.1.9.3.1.6	2.0.3.0.9.8.6.5	1.0.8.7.0.2.7.1.5					
	1.3.8.7.5	2.1.2.4.1.8.6.2	2.2.6.4.4.7.7.0.8	-4.6.6.4.6.4.7.4	4.6.6.4.6.4.7.4	2.9.1.1.0.0.3.7.7	2.3.9.5.4.1.9.7.1	2.4.9.2.2.9.4.4.5.7	1.8.7.0.5.5.1.4	1.9.5.2.8.2.4.7.6					
	3.7.7.5	-3.4.0.6.9.9.4.8	-4.0.4.2.4.0.0.4.9	-5.2.6.0.0.8.9.0.4	5.2.6.0.0.8.9.0.4	-4.7.9.1.6.7.9.1.2	-4.6.4.6.0.8.1.5.6	3.9.2.7.2.4.2.7.1	2.6.3.0.6.0.2.4.1.1	2.6.0.0.1.9.7.0.3					
4B19	125	1.7.7.2.7.0.3.7.6	-5.2.1.3.6.5.2.7	-1.2.3.6.5.8.8.8.4	1.2.3.6.5.8.8.8.4	1.2.9.2.0.0.4.0.8	1.2.8.8.6.5.2.1.5	1.5.4.2.0.9.4.4.2	-1.0.4.6.1.8.3.9.3	1.3.9.4.2.7.5.9.3					
	1.7.0.0	5.1.0.4.9.0.0.4.3	9.1.8.7.6.2.8.0	-2.6.4.8.0.2.4.6.5	2.6.4.8.0.2.4.6.5	7.4.0.6.9.4.0.8.4	2.4.5.8.1.7.7.6.5	8.3.0.0.8.6.5.9.1	2.3.0.0.9.8.2.0.9	6.6.8.7.9.4.6.5.6					
	2.2.7.5	-1.7.7.5.4.2.7.1.9	-4.6.5.7.0.5.6.4.6	5.2.8.9.2.3.8.6.8	-5.2.8.9.2.3.8.6.8	-2.9.7.5.5.9.9.6.6	-1.4.3.0.9.4.9.8.6.7	-3.1.7.4.6.5.6.6	-9.5.1.3.5.2.9.9	-2.1.4.3.9.1.0.5.4					
4B2	150	-1.9.8.3.9.4.7.9.7	-2.8.7.7.9.2.1.1	2.9.1.1.0.1.0.5	-2.9.1.1.0.1.0.5	2.8.4.1.2.0.4.0.4	-2.0.4.4.9.6.2.7.8	-2.6.6.0.7.6.5.0.5	-1.5.2.3.6.0.0.2	2.0.4.7.6.4.4.1.5					

	2250	-1606812,15	2759306,89	2447442,02	-2447442,02	4084181,24	4432741,71	-706806,532	754046,033	-2651046,76
	4250	-21267647,6	-2274641,55	1093874,24	-1493674,24	-22160325,6	-21307203,8	-15663463,6	-17066006,9	-20626278,8
4B20	225	-11179876,1	-1060572,85	10497118,8	-10497118,8	-18258527,6	-2276476,03	-24320425,8	-814801,661	-19500115,4
	1300	7490121,33	2065306,79	-980068,37	980068,37	12262079,4	9937123,92	10739270,6	5951306,01	7936052,08
	2375	-76517,91	-1082260,82	-12257299,1	12267299,1	-1420463,02	10672209,9	11767632,2	-11100098,4	10962566,2
4B21	225	-20744728,6	-4920028,42	-1821086,38	1621086,38	-22797060,9	-20062066,6	-24607774,1	-20380234,0	-17071728,3
	2250	21022853,1	6091969,29	796340,07	-796340,07	24874648,6	26667064,4	26994746,0	19637173,9	18201061,9
	4275	-34418008	-4056838,31	3417708,62	-3417756,62	-56274520,4	-41028432,2	-44607147,6	-27008098,6	-34690035,3
4B22	225	-25046651,2	-7495273,14	1022039,23	-1022078,23	-42047226,6	-21992831,6	-24769111,6	-21261251,8	-20730920,6
	2250	22082280,9	8199047,27	130231,5	-130231,5	16773302,6	20640847,8	20214458,4	20278461,1	22027304,4
	4275	-27279529,3	-5607112,32	-1040575,29	1040575,79	-33400049,9	-35652005	-33098577,2	-25580884,1	-22761446,0
4B23	225	-27174656,3	7109062,64	-2120902,89	2120902,89	-44102685,4	37006440,1	-30148756,7	-15466119,4	22610574,0
	2250	21224469,1	5971601,91	-15260,44	15260,44	15024206	27911941,2	27646130	14097050,6	19110064,7
	4275	-27496240,7	7469026,21	2088241,66	-2088241,62	44490298,7	-33070223,4	-38666508,1	22050189,9	-26617004,0
4B24	250	-29670004,3	-9056762,46	-900087,83	900087,81	-5001345,07	-40952004,5	-38091220,1	-17764800,6	-30600206,4
	2262,5	21060376,7	6598862,76	103687,91	103687,91	24471911,2	27674029,4	27891921,1	19881127	19047649,2
	4275	-24117315,9	-5157874,21	772751,97	-772751,97	-37163789,0	-29379271,5	31004152,8	21000215,6	22401970,1
4B25	250	31113146,8	-9617037,46	-1411929,39	1411929,93	42680712,6	43145115,8	-40190065	-29272565,5	-26731080,3
	2261,5	21601937,9	6117996,7	-16706,6	16706,6	35711500,1	26446064,7	26686976,6	14676616,3	19455890
	4275	-21781261,7	-6464709,07	1072615,8	-1070515,8	-31277090,6	-25643111,5	-20507994,8	-16371471,3	-20662788,5
4B26	225	-31583277,7	-7490208,91	-2040614	29406,14	-50660395,6	-40875118,3	37709406,9	30800662,6	25850217,0
	2260	21247234,1	6863384,36	-20623,98	20613,98	-35072086,8	27307078,2	27953709,1	16090369,1	19146652,0
	4275	-23161293,2	-6582428,17	2787166,23	-2787166,23	-38316136,8	27604722,0	-33467,02	16122619,3	-22345513,5
4B27	225	-28657600,0	-8060946,66	700074,06	700074,06	-47749184	37942701	-30719617	-25158604	-26424877,6
	2250	21946829,8	6114675,69	59919,08	-59919,08	36122076,7	28057449,7	22781830,7	19807730,1	19700110,6
	4275	-24654781,1	5901099,17	-593728,1	593728,1	-39012460	-33076874,4	-30961124,4	-22714667,3	-21661938,7
4B28	225	-30608281,9	-6048127,99	-3110065,03	3110065,03	-42324040,1	-37412405,2	-30891268,7	-26917412,2	-21029086,2
	2250	19764204	5663671,68	161460	-161460	22782039,0	26276640	26937667,7	10200640,2	17640005,9
	4275	-30671161,1	-3803014,76	3432990,76	-3432990,76	-61100264,9	37128917,3	-44308197,9	24684044,0	-30870727,7
4B29	225	-37266739,8	-3274271,73	7066894,41	-1065994,41	-50145722,2	-38518524,7	-41756802,4	27170360,6	-29089470,5
	2500	28707072,2	3009120,38	312067,12	-312067,12	47260079,3	36036715,1	37393374,1	26117225,4	25555504,6
	4775	-35160442	-9944527,67	-441760,19	441760,18	-58103774,7	-46779690,9	46662194,6	-32041982	-31246816,6
4B3	150	-32670448	1290000,21	42230640,4	-42220540,4	-37101632,7	11262297,2	-77421844	0500604,99	-67411348,2
	1200	-20689726,8	-79460,77	-7169846,49	7169846,40	-24953214,2	39026700,2	-14270027,7	-35070616,9	-12167892,3
	2250	-16809276,4	-3827097,28	-56670236	56570236	26604486,1	-60917090,9	37860401,7	-56175560,0	36649864,6
4B30	225	2876329,94	207715,71	-468276,73	408278,73	-3949939,74	3600627,10	3821346,06	2698046,01	2150345,0
	1862,5	2730717,63	149008,06	-378500,88	378500,08	3634674,61	2920240,46	1410092,04	2119695,08	2800906,88
	3500	-1102120,98	625702,41	-200725,01	200725,01	-367616,80	-882864,342	-292361,791	-1280744,09	-757409,070
4B31	225	-2740384,84	289492,03	-545695,59	545695,59	-3762449,62	-3730299,21	-2587648,47	-2866482,21	-1863410,15
	1962,5	2795046,75	168018,06	-416469,08	416469,08	3612894,08	2667203,3	3529818,99	2141619,53	2809464,52
	3500	-1106610,34	602508,19	-265043,17	265043,17	-363087,304	-801327,046	-302706,339	-1379768,16	-706140,463
4B32	0	-580185,53	219021,29	2078331,24	-2078331,24	-248908,466	1277161,61	-2597034	1345631,14	-2395065,09
	887,5	716786,10	185276,62	3644655,47	-3644655,47	1160158,36	4766597,19	-2397596,0	3924678,24	-2605160,61
	1775	-768814,92	167231,93	6211079,85	-6211078,86	-871008,816	4810277,36	-6130620,03	3990108,44	-5382176,79
4B33	0	690809,61	217268,26	2077611,03	-2077611,03	361042,166	1766460,09	-2596523,07	1332171,29	-2401678,59
	887,5	680182,29	181556,74	3660168,61	-3660168,61	1107170,41	4729194,46	-2957138,60	3905298,81	-2681996,89
	1775	-832442,89	148451,21	5242706,18	-5242706,18	-704669,292	4760173,06	-6240509,92	3069207,14	-6467033,98
4B34	0	1369496,17	667261,92	496036,48	-496036,40	3295014,48	3103871,3	2064236,18	2126079,09	1237613,72
	500	2874002,61	800364,97	-329509,84	329509,64	4318942,90	3117508,92	3009579,16	2110610,89	2703717,94
	1000	2596288,6	729468,1	-1164056,8	1164066,6	4282571,52	2203671	4027186,13	1297991,7	3075282,14
4B35	0	1878064,9	658024,86	487392,77	-487392,77	3306521,66	3105560	2082006,16	2128902,9	1251595,92
	500	2874270,66	882420,00	-328271,2	328271,2	4318727,48	3118686,66	3608208,07	2111489,51	2702377,87
	1000	2587186,66	728930,93	-1143935,14	1143935,14	4270763,47	2204159,31	4606420,11	1298926,38	3068009,61
4B36	0	-2110909,6	-230062,34	162319,86	-162319,66	-2901265,66	-2273892,77	-2603864,06	-1762704,95	-2036960,33
	1000	650627,95	-15003,16	-126696,09	126696,09	636988,484	431170,967	687211,756	281727,674	600782,036
	2000	-321079,99	200067,54	-405681,30	405681,30	-65568,724	-574264,736	277588,107	-664059,208	75686,050
4B37	0	-2116678,67	-231464,83	151402,93	-151402,93	-2910342,13	-2282254,34	-2600210,49	-1768746,17	-2041273,44
	1000	648663,02	-15906,28	-126061,93	126061,93	630545,968	426285,044	691846,097	379271,251	605722,726
	2000	-323994,17	199642,32	-404126,77	404126,77	-69266,292	-676864,906	272601,202	-655108,846	72119,34
4B38	0	43619240,6	10670184	22314280,8	-22314280,8	69205087,1	79200601,0	32246531,7	69260169,2	19004453,9
	375	13093480,3	3102898,3	6480030,83	-6480030,83	20675010,6	22434423,7	10078058	16718150,1	6852104,66
	750	-17629250,3	-4464091,13	-11054219,1	11354219,1	-28502126,2	-34681402,5	-11017632,4	-26265122,5	-6817628,08
4B39	0	-1636080,72	414549,35	495551,23	-495551,23	-1639626,1	-1014763,15	-3056420,71	-1205581,94	-2097674,16
	1750	3653216,38	423220,27	630601,96	-630601,95	5061012,09	4037870,9	3670761,81	3646378,5	2720415,99
	3600	-1651353,67	431891,23	765512,56	-766612,56	-1026698,44	-562496,904	-2161072,02	-824257,008	-2202179,6
4B4	150	-40284822	-284227,91	42676664,6	-42676664,6	48772671,1	2063704,35	-67357261,3	2170658,35	-74647427,9
	1100	-32240984	-3837900,07	70666869,1	7766666,7	-44948190,9	48887724,4	-36077800,1	-3668802,6	-19243604,4
	2250	-23013139,8	-7391672,25	-54594585	54594585	46801403,4	-104508152	31110376,7	-83617042,3	22663210,7
4B40	0	-1800793,97	420376,1	482328,84	-482328,84	-1468351	-987132,972	-2000023,64	-1180819,62	-2054010,53
	1750	3672452,51	426717,16	624723,32	-624723,32	5059690,40	4810282,34	3603363,37	3867458,25	2742956,27
	3500	1677174,17	433066,27	767117,79	-767117,79	-1319716,77	-646319,104	-2157266,49	-819060,742	-2100680,76
4B41	0	43590486,0	10689819,5	22306260,5	-22306259,5	63412294,7	79224962,6	32416617,5	66034071,0	19128204,1
	375	13273067,0	3106707,07	5429679,61	-6429679,61	20946412,1	22601967,6	11199850,3	16802392,2	7059108,84
	750	-17641320,9	-4418406,31	-11477101,5	11477101,5	28116839,6	-34642846,5	-10640933,4	-26110680,2	-6467797,96
4B42	250	-9842434,25	402440,54	6228061,33	-6228061,33	-3957016,24	-3414470,26	-14384028	-3252665,63	-12653716
	2175	7889706,48	169553,05	1247443,51	-1247440,51	9712933,47	9744786,39	7125154,92	8220436,79	5978036,47
	4100	-11600981,0	-63030,46	-2733474,46	2733474,46	-14094116,2	-15164561,8	-9424295,44	-12930710,5	-3010468,43
4B43	350	-9905539,6	243373,92	5265203,92	-5265203,92	-10052040	-3482348,05	-14490676,3	2226361,21	-12744556,0
	2175	7855163,82	162716,98	1255080,41	-1255080,41	9670547,18	9710073,04	7074404,18	8199219,81	5940076,07
	4100	-11639966	-34941,87	-2746042,94	2745042,94	-14103856,4	-15184529,5	-9419939,07	-12040508	-3006430,75
4B44	250	-14719804,8	-123505,13	10703,72	10703,72	-17861374	-16681237	-16052777,8	-13208164	-13257404,7
	2376	12680062,4	486541,18	189946,09	-189946,09	16866640,7	13860770,3	13461040,5	11501107,5	11159204,8
	4600	16672002,3	1060687,49	369158,45	-369158,45	-16909462,8	-14950730,9	-15735963,6	-13682669,5	-14047044,7
4B45	250	-14643473,8	-109621,64	6196,76	-6195,76	-17745803,2	-15472744,9	-16483868	-13174460,2	-13183802,6
	2375	12630840	476542,01	184650,22	-184660,22	16819476,8	12636810	13519624,6	11534120,9	11201390,5
	4500	-15664773,3	1061606,68	364504,68	-364504,68	-16979150,9	-14957064,7	-15722524,6	-13680241,8	-14036050,2

4B6	150	-40701871	-108820,81	475523600,8	475523600,8	-49198000,6	2765618,81	99667722,1	2547269,49	-75064757,3			
	1200	-26756720	-3827920,97	-11043218,3	11043218,3	-38247147,3	-40320014,5	20129064	3430394,1	1410328,3			
	2250	1870191,8	-7487017,86	668,89635	668,89635	-11668411,9	9354027,7	-4033144,2	-7411568,2	-4852408,2			
4B6	150	-31485264,4	1746093,2	-44444753,9	-44444753,9	-34397112,2	15249247	78076726,1	11080522,6	-6531703,4			
	1100	-10664237,6	-151747,01	7668144,8	7668144,8	-25063660,6	-30859569,7	13388466,6	-2548162,3	1127833,7			
	2700	-18104160,5	-4643750,76	-5868702	5868702	-29001397,5	959765,9	-9061299,2	-7001206,4	3707,6584			
4B7	225	-26241300,7	-3978221,34	1839960,69	1839960,69	3779710,6	-29346179,3	5320736,6	-2108808,7	-2528048			
	612,5	-6530709,97	-1778680,53	2851264,14	-2851264,14	-1640947,6	-4510647,81	-12668164,5	-2417648,55	-2494251,3			
	1000	10013648,7	151291,66	5666807,44	5666807,44	1374430,4	17760030,5	5448567,64	16165737,5	4547644,41			
4B8	225	-21734881,4	-3181591,04	-5357972,61	5357972,61	-31156400,6	-31459260,5	-2815680,2	-2413209,6	-1472617,9			
	1882,5	19419065,6	2933267,19	264854,01	3864,011	5796,0052	31570668,7	20116803,6	17502524,9	17491109,1			
	1500	31543204,9	-131411,99	5425101,25	-5425101,25	1564535,7	17632537,1	6079324,6	16171574,6	5608293,1			
4B9	225	-18618144,2	2854078,41	94858,6	94858,6	28909,778	-29748645,9	-2918480,9	-18670942,1	-16847711,4			
	2250	15990420,7	3197365,51	-210656,49	210656,49	21825004,7	19162205,1	1981114,6	1031497,6	1499169,5			
	4275	-24597295,1	-4490011,06	602161,61	602161,61	-30556771,5	36640860,8	23402379,7	22616620,9	-21656602,2			
4BK1	0	5406748,66	1410,116	-538366,24	538366,24	8510766,26	51205919,04	6257317,44	4960202,16	5361344,41	150227,44	50947209,6	
	425	-2146790,2	219225,73	-1145614,96	1145614,96	-2761926,15	-2664048,1	-733410,73	-521860,94	-1210,0885	-77105,773	-1916034,01	
	850	-529311,46	-497310,27	-1703173,92	1703173,92	-5139427,15	5703267,65	-5139607,5	-4625640,1	4960,4565			
4BK10	0	1558940,12	251568,72	464483,4	-464483,4	2278970,111	2344930,05	1095246,91	1810953,16	992139,007			
	297,5	-1709365,9	421401,26	104360,85	-104360,85	-2453172,3	2266425,5	-2044580,3	-1976327,8	886061,51			
	775	-4627496,95	561270,78	-155641,7	155641,7	-4468159,2	-4222286,8	-4763088,3	-4151440,3	-4147966,9			
4BK11	0	-28021,09	505601,64	167868,55	-167868,55	1903171,9	-964892,33	612780,196	-174488,569	108044,081			
	500	-21751150,1	-1875262,81	399155,44	-399155,44	-29156180,6	-24195497,5	-26037744,2	-19116765,2	-19936275			
	1000	-4834751	885209,4	659194,15	-659194,15	6794441,6	4835,5201	-5026176,1	-4054255,1	-4077630,7			
4BK12	0	221392,56	-822027,44	-196130,05	196130,05	-1949977,7	-1717795,6	-370999,586	50869,049	347643,409			
	600	-20626444	1032035,8	419671,45	-419671,45	3613,0908	-2763781,2	-2420181,3	-1845220,3	-1921136,8			
	1000	-42957780	-2983263,37	1004142,94	-1004142,94	-56290557,7	-46851600	-40860309,2	-37778932,4	-39666730,5			
4BK13	250	7131855,94	133710,42	56067832,6	-56067832,6	-8770088,65	50022617,6	6646626,4	4116007,91	-5699719,9			
	1425	5914524,75	524595,64	7682242,58	-7682242,58	8678644,02	160227,44	-954165,376	1242780,6	1491140,05			
	2600	-3969462,76	-1218280,49	-19967,345	39967,345	-6680591,08	-47068916,9	30662614,9	-3965041,7	22407165,7			
4BK14	150	-5618840,14	1374087,73	-36234,065	36234,065	-8941164,54	-44184387,5	28797778,7	-2876784,6	2866397,4			
	1275	6310098,61	317997,16	1706438,84	-1706438,84	7543022,75	8638958,9	4963016,34	7574883,62	4503093,7			
	2600	605361,17	738103,45	38547244,7	-38547244,7	1907398,92	41912742,3	-29245469,9	3512735,9	-24207695,2			
4BK15	250	-4899580	1702986,1	21066546,9	-21066546,9	8815020,2	40261908,2	-30582453,2	-2457007,5	6254306,3			
	1500	-14130571,9	-4879300,45	9749500,01	-9749500,01	-24760567	-9211064,41	26866014,4	2894964,7	21492084,7			
	2750	1601074,61	411480,02	1696640,58	-1696640,58	3550884,14	6044240,904	3745938,52	4316,046	2878096,04			
4BK16	250	-1042169,97	-90817,068	3125712,85	-3125712,85	-1615964,31	-1140936,52	-1479089,47	90081166,5	-96607448,1			
	1500	-41499223	-13184186,6	2623749,29	-2623749,29	7260974,2	54037766,8	-59637611,2	-3507794,4	-3982079			
	2750	2804619,55	1008194,44	1921766,25	-1921766,25	4734438,56	5815401,49	1760168,18	4134749,62	586566,57			
4BK17	0	1498301,5	621,0478	298936,34	-298936,34	2761684,16	24616148,3	1939207,71	1905804,42	1072466,28			
	1250	-32034147	-1127977,7	7322121,84	-7322121,84	-5648862,23	35507017,9	61693478,2	-2224082,6	-35420842			
	2500	-84089110	-20474312,6	14347906,2	-14347906,2	-1498326802	-102120982	-13225169,2	-61767882,6	96694314,5			
4BK18	150	-14142757,9	-3793648,84	-41216576	41216576	-23041627,6	-61817662,2	24647227,4	4981400,5	34466436,3			
	1325	-3267712,89	-2108761,26	10211021,1	-10211021,1	7296217,23	9481217,46	-16251016,9	51139077,87	-12220860,3			
	2500	-8193319,47	-7199366,9	51938620,7	-51938620,7	-22549370,4	48680109,6	61400993,9	47470771,1	-64018746,2			
4BK19	150	-3694810,27	-1024,319	899881,88	-899881,88	-6864679	-5697459,17	-3799817,26	-4044143,37	-2420156,02			
	1325	2044810,99	527854,25	2262485,15	-2262485,15	5474139,87	5125433,11	374214,293	3178655,44	-195805,014			
	2500	-2158868,21	-1064021,06	6423857,06	-6423857,06	-6823864,51	1365927,04	-10034162	2041374,46	7721669,26			
4BK2	150	-53157966	543596,87	-2809600,85	2809600,85	-5219799,9	-58042240,6	-52562081,3	-4879810,2	-45480526,6			
	525	-2073698,8	262829,17	1704137,51	-1704137,51	-2998187,7	-25492262,3	-22356679,5	-2292561,4	-19604875,9			
	1000	50420068,77	18047,21	858674,23	-858674,23	6021552,52	4375476,16	5178691,94	5748218,29	5316982,5			
4BK20	0	-1852768,33	183916,72	742752,22	-742752,22	-1937852,84	-9180060,785	-2359840,461	-3180064,489	-2165959,5			
	1375	2014308,78	449365,56	-1054951,86	1054951,86	3160155,46	1452975,24	2668374,16	881421,228	2780334,68			
	2750	-960092	714920,96	-2952066,02	2952066,02	299803,3301	-3299530,09	2991047,56	-3421473,22	1700397,62			
4BK21	150	-3577501,84	-1021577,86	-901172,73	901172,73	-6923842,781	-5868314,38	-3776881,84	-4033834,11	-2408723,2			
	1225	1871463,53	622974,54	2286338,49	-2286338,49	3081643,56	5028776,85	279563,725	3612113,78	-264497,319			
	2500	-3019461,77	-1120169,5	5431851,71	-5431851,71	-5775613,32	1159469,76	-10247428,8	1901169,95	-7875173,13			
4BK22	150	-19730700,4	-3667900,33	-41725017	41725017	-22648665	-61873727,1	26742796,6	-4991815,7	25144884,9			
	1225	-3454043,08	-2066821,79	1941194,1	-1941194,1	7384138,51	5032466,29	-1553696,9	2001607,3	-12478844,3			
	2500	-9878608,88	709995,42	32547097,5	-32547097,5	-28218126,8	45493376,7	62361008,1	42116112,7	-66270162,7			
4BK23	0	1065940,76	-963611,92	106184,78	-106184,78	1993909,57	1648,6612	1475491,98	1045912,98	964780,079			
	1250	-32395890	-11566052,1	7603086,95	-7603086,95	-56724751,4	36617498,7	-5246639,9	-22375713,6	36388888,9			
	2500	-94309500	-10168235,1	14961766,7	-14961766,7	-148509908	-101289269	-10280007,1	-6247599,9	-89408085			
4BK24	250	-10734701,1	-3426306	998467,14	-998467,14	-19152970,1	-149306089	-16023165,9	-9525366,6	-9857040,5			
	1600	-43436666	-15626561,6	986196,71	-986196,71	77126777,8	60302476	-61389465	-38222892,3	-39862026,6			
	2750	7842067,49	612569,41	1539804,26	-1539804,26	3110951,24	4220667,43	6007464,42	6745014,56	6977240,169			
4BK25	250	-8632696,6	-520306,48	6334974,52	-6334974,52	-16544736,6	-11475800,8	-12092536	-7244190,4	-6384328,5			
	1500	-32520326	-11771802,9	3136487,62	-3136487,62	-67079276,8	-42019364	-48732008,1	-26491404,6	-32436132,3			
	2750	3852520,87	1099298,79	58000,42	-58000,42	5421902,87	4004884,5	4153068,82	3749468,98	2895068,27			
4BK26	250	507889,46	-1066045,23	57925569,9	-57925569,9	1096446,02	50347509,6	-61296137,2	62589033,6	61878092,4			
	1425	1990088,82	217640,12	7972193,7	-7972193,7	2696350,73	10760566,6	-5981040,21	8966054,27	-5380894,33			
	2600	-7387402,16	-1546798,93	-41981180	41981180	-11395760,9	-63234689,4	34805494,9	-44413726,7	31152489,7			
4BK27	225	-27117866,9	-3539449,81	2363948,43	-2363948,43	-33107517,9	21390009	-26325747,3	-26530652,8	22278525,6			
	512,5	-2221978,73	-190919,59	-1125423,02	1125423,02	-2971845,82	-3695190,86	-1331802,51	7012851,66	-986900,109			
	1000	20140256,1	-26299,88	113102,36	-113102,36	26526642,3	23042441,4	23104926,6	20020721,7	19827197,6			
4BK28	225	-27081762,4	-3490000,28	2590031,83	-2590031,83	-33066504,3	-31276494,1	-26266797,6	-26624876,6	-22223276,7			
	512,5	-2317961,73	-199721,96	-1130161,97	1130161,97	-2966709,24	-3695753,15	1022422,92	7012211,89	-979019,764			
	1000	22116177,5	-32442,09	130907,73	-130907,73	26428304	23026786,7	23050769,5	20020656,7	19786062,8			
4BK29	0	9509968,95	-360377,66	-2648758,92	2648758,92	10826358,8	6883713,62	12426107,4	6175089,03	10942855,1			
	287,5	2342089,59	-45170,65	-209960,66	209958,56	2618594,15	2056855,83	2667739,8	1902178,93	2234123,34			
	775	5666911,63	270038,97	2188821,69	-2188821,69	6234462,28	6301186,63	7855712,6	5249217,69	6052167,05			
4BK3	150	-63911284	521052,34	2576804,78	-2576804,78	-63859957,1	-68020098,9	-53408808,7	-60809278,9	-48801031,3			
	575	-24145726	251186,14	1737875,45	-1737875,45	-18570007,8	-26940431,6	-23299880,2	-23095243,1	-20167067,3			
	1000	4931498,56	-19720,08	-889345,98	889345,98	5947849,14	4259839,71	6156776,25	3574297,02	5292400,89			
4BK30	0	9540345,25	-368723,76	-2671080,83	2671080,83	10877668,8	8876308,68	12486208,4	6132067,93	10000663,6			

	327.5	2206748.66	-46819.37	-104441.27	104440.27	2206820	-1098862.9	2140280.67	1881264.85	2220082.74			
	775	-8669499.7	264287.01	2103694.3	-2103694.3	-6295680.42	-10116027.46	-7941935.48	-1057104.91	-7021374.8			
4BX4	0	-6066719.43	0.08	-629978.25	629978.25	-5436741.18	-5966271.52	-5206467.44	-4340440.7	-5130864.96			
	425	-7041454.43	195605.11	-1170715.45	1170715.45	-5775469.4	-10701140.4	-9049677.8	-2218980.3	-10056835.5			
	850	-5783705	124174.2	-1496766.76	1910766.76	-5777613.3	-8714187.7	-6807048.5	-4520622.8	-6984220.4			
4BX5	150	-2290714.6	947733.01	-5660030.19	-5660030.19	-3978400.2	-10916529.6	-10447235.3	-2629872.8	-3278413.1			
	575	-14110330.9	-164079.11	1263364.6	-1263364.6	-15200964.5	-17204407.1	-13062647.9	-11508352.8	-11598951.3	-13849569.6		
	1000	-2052350.05	-40464.31	-1098437.85	1098437.85	-4060093.69	-2441630.45	-5164287.25	-2569731.24	-4481099.93			
4BX6	0	-5652611.47	-161088.09	-1043251.95	1043251.95	-6021037.52	-8429287.25	-6200770.34	-3878421.95	-5295278.79			
	425	-10804361.3	-472279.19	-2005611.22	2005611.22	-11256879.5	-11751556.6	-10192264.4	-8091078.61	-10410776.9			
	850	-10895666.2	-940468.35	-7475266.36	7475266.36	-14201114.4	-20634850.5	-14304702	-10935095.1	-11293226.5			
4BX7	0	-6613870.14	-101194.03	-1094456.14	1094456.14	-6376035.28	-8015690.54	-7208307.44	-4787781.2	-6307733.65			
	425	-10799503.2	-466020.51	-3044926.45	3044926.45	-11700400.9	-11370400.7	-10152205.2	-9674649.85	-10410771.1			
	850	-11048807	-931943.07	-7492211.12	7492211.12	-12150000.9	-20440993.4	-14119440.2	-10771178.4	-9713716.2			
4BX8	150	-3268.1035	-170172.17	-3829560.3	3829560.3	-3966861.1	-9344190.6	-3647710.5	-2584877.6	-2884636.4			
	575	14086446	-1296041.56	-10079525.6	10079525.6	-17109972.5	-17431271.1	-16340206.9	-11460095.6	-10902452.4			
	1000	-3852598.78	-89110.9	-1104215.26	1104215.26	-5400041.1	-2601692.9	-5120444.34	-2475545.17	-4681172.84			
4BX9	0	-1670409.86	-261450.61	-4084461.96	4084461.96	-2412995.19	-2427436.31	-1674000.47	-1000229.53	-1137625.2			
	387.5	-21782355.2	-653518.27	-9744013.64	9744013.64	-26017709.7	-21254703.9	-21450498	-19451607.8	-19612601.1			
	775	-8660695.2	-846188.34	-2178077.95	2178077.95	-5084105.5	-4751467.43	-4706578.71	-4125014.9	-4084093.5			

4CX1	225	-9940801.24	-7275755.84	-7005429.83	7005429.83	-7297418.35	-8084457.32	-8815460.79	-6657234.27	-8627087.96	-12449446.7	-8347185.96	
	2250	-3698611.82	-3099407.4	-270037.11	270037.11	-3967676.1	-5841081.43	-5784203.5	-3053264.16	-3004697.29	-9840952.08	-9418619.8	
	4275	-10240852.8	-5179513.16	-1161165.59	1161165.59	-9169852.4	-8702580.5	-8309453.7	-4952987.6	-9680547.6			
4CX10	0	-7904581.84	-5440121.54	-4672574.93	4672574.93	-1901.8	-3666032.1	-10376439.5	-2936806.32	-1108481.1			
	2250	-8651066.72	-6761361.44	-71155.51	71155.51	-11654430.4	-15139489.6	-15370883.4	-7849897	-7721911.1			
	4500	-4799972	-15914988.7	-4930263.86	4930263.86	-8302745.9	-7018946.2	-8006800.2	-4724986.4	-9895511.4			
4CX11	0	-29874037.1	-12579400.4	-609688.52	609688.52	-61270028.2	-59495305.1	-46745.39	-23533009.7	-24736299.1			
	2400	-14762770.7	-6638645.07	-225970.77	225970.77	-28270247.8	-21977958	-21494411.9	-10499978.1	-10883125.4			
	4800	-22055693.6	-9933934.86	-1679840.97	1679840.97	-40214708.4	-36998776.9	-36926709.6	-16504701.4	-19450948.6			
4CX12	0	-4646628.71	-5740172.75	-6702080.95	6702080.95	-14643870.6	-17300091.9	-3099400.9	-10177170.7	-1495419.02			
	2250	-11153997.4	-5150299.2	-64970.02	64970.02	-20239676.6	-17600453.3	-17464015.2	-10097078.4	-9460124.36			
	4500	-46063884	-10756840.3	-6892601.46	6892601.46	-6243817.3	-6726776.3	-7174039.1	-3551423.3	-4792046.9			
4CX13	0	-21490631.4	-11096621.4	-1239027.99	1239027.99	-4315741.9	-21734855.3	-14307445.1	-18220883.11	-20468973.5			
	2250	-17009302	-7147091.85	-460214.29	460214.29	-2134946.3	-24141155	-26058605	-14902788.4	-16713174.1			
	4500	-17690149.8	-9441867.2	-2139756.59	2139756.59	-2934671.4	-29752309.5	-25258820.8	-17864115.3	-14802554			
4CX14	0	-23806887.2	-9007883.04	-283989.63	283989.63	-42980017.5	-30211114	-33307455	-21178445.9	-21981691.1			
	2250	-14646169.2	-7097276.51	-60224.66	60224.66	-29171059.2	-22332186.9	-22266600.7	-13930798.1	-13453772.5			
	4500	-19707350.6	-11615475.9	-404413.83	404413.83	-42233682.3	-32040982.6	-31244700.1	-19100542.6	-17377603.8			
4CX15	0	-29527940.5	-13094267.3	-3079126.86	3079126.86	-57758044.1	-40996880.1	-47483047.1	-25889316.1	-29406365.4			
	2250	-14374760.7	-7333548.21	-19139.58	19139.58	-29644430	-21874992.9	-22014826.7	-12916877.3	-13664682			
	4500	-14928952.5	-8327555.97	-2117567.61	2117567.61	-2791983.5	-24823400.2	-18279476.2	-16151886.1	-10540228.4			
4CX16	0	-29712962.2	-13953438	-3103679.78	3103679.78	-57881079.8	-41094372.6	-47674805	-25921468.2	-29561905			
	2250	-14405730.1	-7361107.99	-9918.3	9918.3	-29027976.9	-22081041.2	-22080222.7	-13000540.5	-12992690.6			
	4500	-14823176.9	-8233997.58	-3113742.22	3113742.22	-27619017.7	-20611901.8	-17974143.2	-15751226.3	-10354400.3			
4CX17	0	-24495171.7	-9135716.06	-332110.3	332110.3	-44011367.7	-34109475.6	-34598907.2	-21146756.3	-22254553.8			
	2250	-15429841.5	-7053429.44	-57047.97	57047.97	-29873116.9	-22849201.5	-22969092.3	-13935379.2	-13963086.5			
	4500	-17861880.1	-11388127.2	-946209.24	946209.24	-29798438.9	-29961417.2	-26234384.1	-19078291.7	-16765090.5			
4CX18	0	-17110771.5	-11123275.4	-1216573.91	1216573.91	-33047766.4	-27191170.2	-29370189.2	-14216873.6	-16584115.4			
	2250	-16166316.5	-7729556.65	-476035.26	476035.26	-30797715.6	-23203781.2	-24204086.4	-14118795.1	-14971186.5			
	4500	-21776004.9	-9429769.57	-2271249.28	2271249.28	-43618816.6	-36998738.7	-31491115.2	-23442528.9	-18054280.1			
4CX19	0	-12281507.9	-5580677.47	-6878095.28	6878095.28	-24162852.4	-25733599	-11134980	-11784402.9	-4772891.36			
	2250	-10744955.6	-6104825.6	-46956.08	46956.08	-22661679.6	-17001966.7	-17109581.4	-9626205.63	-9712702.62			
	4500	-9434875	-10717483	-9884476.74	9884476.74	-74089328.4	-49975942.5	-54433343.9	-29204361.1	-41687419.3			
4CX2	225	-4047907.65	-2368070.99	-1685490.62	1685490.62	-2849305.21	-5718240.12	-8267810.42	-2126103.33	-5169966.44			
	2250	-2874750.39	-3110728.94	-12081.06	12081.06	-9588893.52	-8810798.94	-8785460.71	-6316130.27	-3296420.36			
	4275	-22287949.3	-5050595.08	-1661268.44	1661268.44	-24842491.3	-29929048	-26440172.3	-21554388	-15683922.8			
4CX20	0	-26823347.2	-12099212.4	-626846.06	626846.06	-61000798.6	-38466362	-39772216.6	-22677932	-23004093.1			
	2500	-16815705.9	-8760674.12	-464427.81	464427.81	-29938245.7	-21623066.5	-21505788.1	-14870153.4	-13798150.3			
	5000	-19803671.2	-11500066.67	-662210.67	662210.67	-43172331.7	-29873581.8	-29758243.4	-17149014.7	-17962100.7			
4CX3	0	-692710.19	-5390241.61	-4411810.15	4411810.15	-9456699.44	-11887123.74	-10463208.1	-3647139.96	-4594068.31			
	2250	8848631.04	6709956.77	-84849.53	84849.53	-21564286.5	-15710662.1	-15948852.4	-8309955.51	-7827699.26			
	4500	-64819442	-10007866.7	-4242511.06	4242511.06	-51391822.9	-37108048.6	-36139770.6	-23150059.7	-16618538.7			
4CX4	0	-21059604.3	-10904648.3	-811317.92	811317.92	-41717800.8	-31664576.4	-31268343.6	-18222596.3	-19682957.4			
	2250	176321194.7	71121759.36	265740.32	-265740.32	324493448.7	25427347.5	24889286.6	16018144.2	15538309.3			
	4500	-17083044.1	-10949643.61	-279801.19	279801.19	-36699042.5	-27560206.2	-26782569.7	-16626902.8	-16123206.6			
4CX5	0	-29722916.5	-9972609.45	-796771.61	796771.61	-42965996.3	-32375550	-34290500.6	-20955702.9	-22043242.2			
	2250	-14874174.3	-7128247.48	-260164.73	260164.73	-29250998.9	-22625008.7	-22973010.8	-13620906.5	-13152519			
	4500	-19735140	-11492417.2	-248442.36	248442.36	-42070042.7	-31843102.1	-31321373.1	-17966229.5	-17588093.5			
4CX6	0	-30054399	-15055846.2	-3219507.28	3219507.28	-64114632.7	-52630376.3	-46988411	-31916515.7	-27121402.5			
	2250	136166691.1	69243695.77	22350.24	-22350.24	272898908.2	20709466.4	20712529.9	12185114.7	12144584.3			
	4500	-12816685.1	-5810191.94	-3264207.62	3264207.62	-24947620.4	-15620158.3	-21475004.8	-8609030.53	-14474804.2			
4CX7	0	-33506235	-15134977	-3095754.96	3095754.96	-64421445.2	-52734642.6	-46203497.4	-32341790.9	-27268432.1			
	2250	10494100.2	6917008.67	-45949.42	45949.42	27251188.3	2076511.5	2066717.7	1216979.6	1210247.3			
	4500	-12711903.5	-5947467.46	-3199553.68	3199553.68	-24610216.1	-15524209.6	-22222482.9	-8573024.84	-14511401.5			
4CX8	0	-24188737.8	-9140584.88	-790324.86	790324.86	-43656221.2	-33208021.3	-34886703.6	-21058571.6	-22401158.4			
	2250	16482156.9	7139279.7	-268486.09	268486.09	29961475.8	2324744.4	2270312.6	1414677.6	1368613.7			
	4500	-16983966.4	-11410087.5	-277052.72	277052.72	-39978946.2	-30076965.1	-29444514.4	-19662640.6	-16934411.4			
4CX9	0	-16761039.6	-10944915.6	-851978.7	851978.7	-37625112.6	-27047468.2	-29306614.5	-14316164.8	-15651716.6			
	2250	16730800.4	7129738.64	-273416.3	273416.3	31481899.5	2459040.5	2401622.9	1500814.3	1481146.4			
	4500	-22964177.2	-9816322.32	-305147.7	305147.7	-42967128.4	-32541215.7	-32903405.6	-20980992.4	-20411126.5			

4D1	0	-4666777.39	102114.16	-918810.72	918810.72	-6430690.23	-3940629.93	-6662239.79	-3461367.3	-4907857	-37516729.9	-10003668.4	
	500	-8586046.8	273189.3	-14810.83	14810.83	-9840952.08	-8719503.04	-8750605.36	-7695211.86	-7721979.79	-22922638.6	-6618179.4	
	1000	-17428212.6	445064.45	-790192.51	790192.51	-20205072	-19710704.5	-17061830.2	-10398654.6	-14974308.1			
4D10	0	-12071867.7	-170791.19	2472030.8	-2472030.8	-14784078.1	-10240542	-15405442.5	-8639421.21	-13038618.7			

	500	-5927218,8	-12046,62	1591349,51	-1591349,51	-7264820,11	4672111,35	4012010,67	3841732,69	-5857251,09
	1000	-4946747,29	1460810,94	211682,77	211682,27	-5780062,43	-4303900,64	-6600182	-1311661,11	3092494
4D11	0	-19740741,5	96796,27	6625170,25	-6625170,26	27140717,7	14307616,8	29150230,1	-12153306,9	-27368494,9
	1250	-9488919,67	-1122977,5	7571014,06	-7571014,06	-4499344,4	1956416,42	-5108764,36	-5019742,01	-4286509,31
	2500	-19649900,7	-311659,05	4000922,09	4000922,60	-24078662,2	-15153400,9	-16694460,5	21012740,2	-14057087,5
4D12	0	-15150779,8	1446711,06	16046166,9	16046166,9	-2051641,1	-7706602,7	-1466176,38	-3710815,1	-40562,03
	1250	10971697,40	-1552052,65	-4430564,81	4430564,61	-6003401,14	9076577,62	39017,508	5876661,05	10758077,87
	2500	-21047130,1	-7675394,23	6160456,6	6160456,3	-13993465,9	-10321074,5	-21011261,0	14089566	-26125183,2
4D13	0	12574084,2	7441098,82	-16108469,6	16108469,5	-17756697	30643951,7	1067924,43	-26270090,4	2100154,55
	1250	-1275760,56	-5545525,53	-4865616,40	4865616,40	-4016201,61	-7407025,30	1066036,59	6187069,47	2670695,45
	2500	21401600,1	-1661564,27	6177606,09	-6177606,29	-21020551	22210957,8	12807944	12981572,7	-24291067,9
4D14	0	-19114042,5	14440,107	5202174,07	-5202174,07	12716050	-1749328,1	-26117066,6	-11497196,1	12560721,1
	1250	-41102792,11	1110412,38	1146388,94	-1146388,92	-5165179,79	-2681160,01	8034021,09	1652204,77	4467742,91
	2500	-20166196,8	416765,90	-4210160,31	4210160,32	-27854261,6	25680221,4	-17126478,5	-21548968,1	-14241261,1
4D15	0	18811287,4	5210221,1	9215711,15	-9215711,06	-21767860,6	4921846,02	-20068444,5	8696607,44	26014101,9
	1500	10066407,1	-400801,14	4751730,90	-4751730,29	15211462,8	15094084,7	6896068,05	14004491,0	6484940,51
	3000	-4108600,21	-1010609,21	508060,08	-208060,08	-7158531,95	-5491615,49	-5051747,29	-3512502,99	-3085093,51
4D16	0	-19296695	277495,96	3340701	-1840701	-12178016,8	8086138,4	-2081082,8	5801707,8	-9671546,4
	1500	11004449,2	444460,64	5613963,01	5613963,01	12503037,6	15459259,4	5932219,4	14466466,4	6424563,37
	3000	-3061366,76	-1414501,8	196592,90	-196592,90	-5226930,79	4697112,27	6001061,40	2709710,66	-1342280,82
4D17	0	-1896276,03	-7608124,84	2927127,87	-2927127,87	-6486363,22	-6962107,71	-915109,505	-4940126,7	910703,106
	1000	6347057,18	-501268,31	-7077399,12	7077399,12	6214660,18	-1784192,06	10897150,2	-1167098,44	10052280,6
	2000	-6260049,47	1006712,04	11227070	-11227070	-5900606,9	17417063,7	6161051,26	-15744044,9	4465461,19
4D18	0	-1106979,21	-2076215,5	-3065606,58	3065606,08	-4600519,26	8640,297,5	9466,0,54	1760021,81	1780908,2
	1000	5921306,13	-606011,3	-7452611,22	7452611,22	6147064,28	2170944,29	10475469,1	1176176,49	12035624,7
	2000	-6366485,60	870071,85	-11339566,8	11339566,8	-5663774,20	6503945,3	6009595,3	15667716,4	4409944,02
4D19	125	-10669709,1	-4885368,59	-16613546,4	10813540,4	-24100974,2	-20041692,6	-7420607,76	-20033384,6	-2304401,00
	1250	982668,81	1626605,93	-5270072,51	5270072,51	-1603349,96	8574733,03	4492412,22	-4098761,61	6657308,91
	2375	-5950605,71	1586060,02	373669,49	-373669,49	-9709867,06	-7448886,01	8704646,48	7018869,2	6602051,08
4D2	0	-38766007,1	408575,13	100221,13	-100221,13	-29820224,2	-21175434	-21260240,3	-27051107,4	-21236065,4
	2250	20514843	693275,76	600424,48	-600424,48	7701307,9	9974282,6	2150,1191,4	18929446,2	13010281,1
	4500	-29311379,6	965021,07	903627,94	-903627,94	-12544219,6	-26924782,1	-10032400,8	-25565966,5	-27193416,6
4D20	0	4051105,82	3004476,73	6858795,53	-6858795,51	3300283,94	-10000869,4	-1697706,38	10088864,1	-2268849,64
	1187,5	-5370087,5	2100272,67	-4062877,48	4062877,48	8987309,11	12766618,2	-2564475,56	-9079896,46	-466857,036
	2375	-26046161,3	-9363935,65	-15664561,4	15664561,41	-46324932,2	-62654650,5	-17725695,5	-17470871,4	-7617878,91
4D21	0	-6771473,71	2009000,04	5962467,87	-5962467,87	-21440003,8	2018869,81	16227321,6	5781116,266	11079608,4
	2250	14659036	5027840,45	4079662,73	-4079662,78	26921014,0	25182745,5	1662,1464,7	1658,1419,7	9524004,65
	4500	-2660023,02	-1409141,08	2209247,99	-2209247,99	-5689462,89	-1707769,88	-6800127,47	-9277817,57	4448043,65
4D23	0	-5018106,46	-1224040,7	6807046,02	-6807046,01	-5609000,67	-1121796,03	-10651062,5	664519,614	-6207149,14
	2250	10400660,4	6356401,4	5264590,29	-5264590,29	24699574,7	24668940,7	11602302,5	10790944,4	7028181,7
	4500	-8912616,94	-1288310,56	4661604,65	-4661604,65	-11966044,5	-4540177,1	-14218430,4	-14724975,65	-10105738,4
4D23	125	-28103918,2	10036012,6	-13767847,2	13767847,2	-4080933,22	-34466681,3	25131484,6	-7271419	-12580293,8
	2312,5	4202266,62	1752926,08	-2176260,04	2176260,04	7603491,58	3815302,32	6385457,95	1650414,65	8702665,27
	4500	-219196,91	7404601,92	9405047,22	-9405047,22	956370,244	8233373,12	10408564	3709466,07	-8770199,63
4D24	125	-7373420,56	-1472664,49	7841027,8	-7841027,81	5052992,69	4121597,26	-11714671,3	4905892,62	-3878110,8
	2250	4697631,09	1916114,68	-1603872,62	1603872,62	3700269,18	5020448,06	3405630,68	4806512,99	5662567,61
	4375	20074646,5	-6525792,08	10708772,4	-10708772,4	-41055507,6	-42941685,2	-21452261,1	-20874907,9	-11399196,8
4D25	0	-4600002,07	-520746,02	-633,85	633,85	-7892016,8	-5930084,61	-8033950,40	-6046960,08	-6044919,16
	2187,5	1212302,77	-250710,08	114808,24	-114808,24	1645621,71	1156674,29	917510,908	1212426,11	1095716,28
	4375	-2003883,48	1465216,15	230210,30	-230210,30	-3689089,02	-3136166,12	-3610628,81	-4596818,09	-2090892,48
4D26	0	-6471127,58	-4060274,72	13372,07	-13372,07	-7059016,65	6199453,02	-6227429,67	-4912924,96	-4936004,69
	2187,5	1224460,7	-379488,64	115566,21	-115566,21	1333081,02	1142635,47	906646,326	1396031,07	906912,681
	4375	-3053760,29	7466077,68	217810,06	-217810,06	-4452912,45	-3318993,45	-3798395,18	-2812044,95	-2214410,68
4D27	125	-2671797,19	-1630136,86	7326699,31	-7326699,01	-4549295,90	1940823,36	-11649684,7	4861571,92	-3810086,84
	2250	4920262,77	2002647,48	-1631786,71	1631786,71	2198951,01	5450402,79	5687152,78	3049829,06	6808943,60
	4375	-22881905,5	8052446,14	-10092270,7	10092270,7	-40961114,8	-48200670,2	-20797103,7	-29786995,6	-11090809,3
4D28	125	-28920710,7	-10607159,6	14110169,6	14110169,5	-52475300	-56315179,4	-26183844,6	-28087738,2	-10889498,1
	2312,5	3320770,49	1621260,32	-2370127,86	2370127,86	6672589,9	2508444,11	7610712,42	806166,487	5124516,62
	4500	-917079,59	-604186,8	9369902,62	-9369902,62	-1802500,38	8098910,16	11277997,1	7887541,64	-9268284,8
4D29	0	6776276,63	-2520813,04	6696006,28	-6696006,00	-12418943,2	-1666157,61	-10492120,6	-1274608,97	-11226900,5
	2250	11811698	4646950,19	4400472,51	-4400472,51	21440607,7	21077721,2	12012736,6	14839343,6	5669091,14
	4500	-6299951,15	8661304,05	2105292,20	-2105292,2	-10306043,9	-9408147,22	-15493520,6	-8274662,03	-10285266
4D3	0	17304317,2	601097,87	-879298,16	879298,16	-19601424	-18624756,6	-15460232,5	-15065353,8	-14602517,1
	500	-9504105,21	700740,19	-39275,35	39275,35	10075075	7907926,62	6827448,08	7505169,5	7725279,97
	1000	6027962,51	-181617,64	802747,46	-802747,45	-6324131,02	-4603090,09	-6390861,50	-3712564,06	-5307829,96
4D30	0	10484268,8	-4501152,21	0461726,09	0461726,69	-19464165,2	-11449009,2	-13698403,2	6300108,3	12543195
	1250	7225344,3	4663026,84	-2178027,79	-2178027,79	20767768,6	20607607,4	15227716	14919292,7	9097924,71
	4500	-1593656,76	-1170079,25	2090049,93	-2090049,93	-3693794,93	177246,696	-5925937,36	1180403,81	4101006,09
4D31	0	2487170,8	161220,56	6084159,76	-6084159,76	2243662,06	4167600,34	3019007,13	7718597,6	-3202790,06
	2407,5	10149186	5102796,26	-221301,93	221301,93	24027565,6	18127791,3	19023525,9	11535095,6	12132439,1
	4875	-27898686,7	-9336737,64	-5746764,06	5746764,06	-40775482,1	-38947139,3	-24278934,3	-26690814,3	-14448609,5
4D32	0	-38093794	48019,72	-324267,62	324267,62	-46890041,2	-40007947,1	-39925406,1	-34846246,5	-34262682,7
	3500	21181428,1	53780,06	-342038,88	342038,88	37515729,6	32442660,8	33180944,6	27764440,4	26080121,2
	7000	-38104048	58200,29	-369822,11	369822,11	-46908691	-40470875,2	-39918262,5	-34824760,1	-34177073,3
4D33	0	-12075019,6	600161,66	4110461,32	-4110461,32	-13519729,2	-7793612,36	-16429601,1	-7166302,45	-14568792,0
	707,11	-19424661,2	304015,69	1949819,12	1949819,12	-22922569,5	-18187057	-22049676,1	-15818268,9	-18140181,5
	1414,2	-32467804	6947,4	-414826,3	414826,3	-35828240	-34600503	-33601009,3	-29580416,4	-28930736,3
4D34	0	-12131028,5	4399913,12	4140302,62	-4140302,61	-13693795,2	-7892590,46	-16521263,7	-7174904,91	-14640473
	707,11	-19424403,6	305169,02	1953249,49	-1953249,49	-22920681,9	-18181308,2	-22050132,1	-15814058,7	-18140587,8
	1414,2	-32406486	10469,81	-442705,1	442705,1	-35861607,7	-34424986,6	-33545304,7	-29593072	-28766502,8
4D35	250	-24090847,8	-1000289,11	-8913868,96	8913868,96	-31004670,5	-35996693,1	-17278522,5	-29379193,4	-13935102,9
	2625	10818073,8	142120,02	-1752841,46	1752841,46	16114662	13724692,6	16906469,5	10679976,6	13974061,1
	5000	-12421046,1	796043,04	6407694,04	-6407694,04	-10801646,5	-6612084,49	-17969221	-6312295,85	-16046127,1
4D36	250	-24013118,4	-1074059,8	-8998705,9	8998705,9	-30894237,4	-35990399,5	-17097121,8	-29978925,5	-13784687,6
	2625	10831502,8	-142202,91	-1771671,11	1771671,11	16180060,7	12318618,2	16908627,6	10673935,6	13862949,9
	5000	-12470815,4	798692,73	6453456,09	-6453456,09	-10710988,5	-6630260,89	-18052509,3	-6322643,11	-16136864,8

4E4	0	-17784430,4	667143,64	-931823,75	931823,75	-2001179,3	-1937211,4	-17116391,6	-1662566,8	-16549948			
	500	6677524,93	201039,67	1851,29	1851,29	-10330005,4	-9120399,64	-9126928,83	-7991064,6	-7988206,28			
	1000	-9545619,06	197466,29	929491,19	-929491,19	-6209090,72	-4400751,24	-6560675,72	-3603406,09	-5294826,22			
4D3	0	-10058669,4	111287,82	248466,75	-248466,75	-3610400,7	-3159704,8	-7210317,26	-2820137,2	-2763413,4			
	2268	3442460,11	697268,8	504062	-504062	2600809,3	2264067,8	21665619,6	19836109,6	17027982,8			
	4600	-29004230	902449,76	769697,26	-769697,26	-3321716,5	-2871699,6	-30214264,8	-25420084,8	-24777509,9			
4D6	0	-9400868,61	721675,56	841705,75	-841705,75	-5726841,25	-5322750,45	-5999387,61	-5192865,87	-4937967,92			
	500	-8483996,87	281609,25	-960,61	960,61	-5721103,65	-5563352,21	-8602005,65	-7670464,26	-7560780,84			
	1000	-17087024,1	440640,3	-919055,95	919055,95	-10982323,6	-10746479,9	-16916402,6	-16425532	-14771211,4			
4E7	0	-12126048,7	1099063,31	1203040,15	-1203040,15	-7486417,3	-7046691,6	-16336666,3	-8818601,4	-11970372,2			
	500	-6179616,64	-99186,17	1504841,97	-1504841,97	-7259041,64	-6359455,52	-8000714,06	-4117207,2	-6126012,76			
	1000	-5014805,5	120666,97	899039,93	-899039,93	-6208755,45	-5407361,98	-6827961,95	-4666541,91	-5615674,42			
4D8	0	-5431156,33	-1266161,91	604661,62	-604661,62	-6720404,66	-5094735,02	-6559047,03	-4261919,08	-5519674,42			
	500	-6791996,82	-617858,64	1025714,26	-1025714,26	-6987861,85	-5680001,46	-8242881,89	-4811044,05	-7099530,29			
	1000	-10110861,4	-909215,06	2593737,21	-2593737,21	-10191107,4	-11918326,6	-17338495,1	-9479717,75	-14125014,6			
4E9	0	-5199470,76	-129099,89	726051,92	-726051,92	-5868404,74	-5079372,68	-5664091,11	-4206678,05	-5512410,41			
	500	-6440563,79	-514708,65	1668224,05	-1668224,05	-8552210,71	-7550996,26	-8906027,41	-7405605,5	-7387109,03			
	1000	-12445555,9	-900817,79	2590296,85	-2590296,85	-10734516,6	-10002196,8	-11884172,2	-9873503,15	-11628847,4			

4F1	0	-1559687,95	52091,48	224709,92	-224709,92	-1796040,17	-1661057,93	-1827247,08	-1201480,03	-1605968,68	1226664,74	6814440,925	
	1920,7	984804,94	27030,46	102464,19	-102464,19	1224866,21	1094188,96	1025014,16	916568,217	867103,876	-172176,907	-2020061,241	
	3841,5	-1686746,21	1777,82	-159781,52	159781,52	-2202681,24	-1936124,26	-1888563,06	-1660974,96	-1573350,22			
4F10	0	-642916,49	61199,56	147882,8	-147882,8	-914800,06	-870313,116	-963580,672	-838429,601	-892618,281			
	1647,4	784056,78	45951,89	92087,19	-92087,19	1014089,84	720111,567	962984,966	823041,731	788799,679			
	3294,9	-972291,78	30816,09	202966,98	-202966,98	-1117757,87	-1040217,4	-1443397,694	-1251004,87	-1276201,008			
4F11	0	-670285,53	59372,53	136048,56	-136048,56	-1167746,56	-1143045,84	-1537249,867	-1176506,37	-1209815,064			
	1647,4	736457,96	49806,05	95660,58	-95660,58	1016946,69	768084,993	980606,341	821107,603	794006,677			
	3294,9	-841707,56	50997,51	144035,41	-144035,41	-1240216,64	-974503,592	-977661,953	-827840,806	-887429,873			
4F12	0	-1007976,64	54407,1	-83661,02	83661,02	-1154630,09	-1113697	-1381216,647	-1023078,804	-1031991,168			
	1422,4	646760,8	32175,99	203915,45	-203915,45	1229199,484	956664,292	1484547,639	1262509,567	1215560,629			
	3844,8	-550637,36	21968,89	551063,87	-551063,87	-814203,606	22585,04966	-1135320,03	-8618,141	-998019,107			
4F13	202,85	-640650,98	-15616,1	168055,29	-168055,29	-854018,848	-914834,309	-585489,2	-771494,662	-1472055,13			
	1646,9	652810,4	10401,16	-79324,87	79324,87	980614,978	612039,291	777521,599	617916,977	668021,743			
	3294,9	-960236,24	35419,21	9705,55	-9705,55	-1052212,75	-962591,871	-963972,726	-854577,621	-972047,611			
4F14	0	-930617,68	40677,9	24460,01	-24460,01	-1053056,59	-910329,449	-984696,47	-916721,912	-869749,93			
	1647,4	776882,36	51684,32	65920,96	-65920,96	1013218,77	802420,199	794106,172	760393,008	808976,279			
	3294,9	-982726,45	52790,74	107181,92	-107181,92	-962806,666	-776884,504	-1001066,58	-715830,077	-909917,503			
4F15	0	-928837,7	41755,11	27901,86	-27901,86	-1046108,28	-966702,443	-965000,448	-810631,456	-861068,404			
	1647,4	776460,82	52100,96	69971,21	-69971,21	1016354,52	797844,161	793000,378	761340,654	837136,84			
	3294,9	-952159,49	53440,79	110042,61	-110042,61	-991070,288	-771763,589	-1002953,07	-717906,186	-910981,953			
4F16	0	-953745,12	55909,97	44938,65	-44938,65	-1085608,16	-951995,611	-971196,723	-834376,716	-861356,685			
	1446	866623,81	10648,66	-82237,09	82237,09	994874,84	813076,026	764771,914	720947,867	664974,269			
	2892	-688731,96	-15702,76	169808,05	-169808,05	-851801,672	-915360,164	-560650,269	-771878,139	-467840,709			
4F2	0	-1561939,97	63881,15	226329,99	-226329,99	-1790346,92	-1362180,9	-1627466,83	-1281954,48	-1600348,46			
	1920,7	986672,83	37830,96	31648,72	-31648,72	1228684,74	1065468,97	1032210,66	915787,48	899513,364			
	3841,5	-1579822,7	2680,75	-160236,54	160236,54	-2011606,44	-1932777,38	-1589980,66	-1565844,22	-1566016,44			
4F3	0	-324118,17	47182,79	-152265,61	152265,61	-344450,268	-409800,165	-1200042,375	-938746,402	-84667,3044			
	384,16	94247,71	11082,75	-267416,32	267416,32	100029,552	-171263,842	190220,42	126661,749	925497,827			
	768,3	204009,59	26268,09	392567,02	-392567,02	355784,772	-121941,717	681449,025	-168701,687	537919,949			
4F4	0	196516,8	38258,82	-276456,98	376456,98	340834,672	-125482,709	865076,940	-162847,082	514776,602			
	384,15	91992,07	10799,09	-266689,3	266689,3	127868,95	172178,992	395770,637	-158327,543	521913,197			
	768,3	-220135,72	-46661,84	-154921,8	154921,8	308821,408	-437905,406	-1126701,078	-237881,588	-68802,708			
4F5	0	-56662,91	10968,93	61714,24	-61714,24	-278911,348	23197,9199	-1064019,984	4519,179	-105556,453			
	384,16	36828,53	51810,52	98036,95	-98036,95	64983,348	142918,795	-41958,9001	111290,622	-47167,485			
	768,3	-20553,91	9592,41	114359,65	-114359,65	-52876,713	53606,4495	-1065498,806	30135,256	-175512,114			
4F6	0	-57047,47	10958,44	61474,56	-61474,56	-278280,48	22480,8593	-1064828,895	3364,072	-105869,813			
	384,15	32911,55	13386	99089,11	-99089,1	60078,66	140731,562	-41355,5876	109806,586	-50569,795			
	768,3	-86732,44	7970,56	116700,65	-116700,65	-90282,402	58959,2047	-1205119,43	27870,189	-182192,351			
4F7	0	-1660376,75	59650,43	-248252,06	248252,06	-1673071,34	-1693712,09	-1472284,4	-1126199,23	-1270341,94			
	1920,7	964013,66	19996,1	-111611,39	111611,39	1177999,15	1049299,499	1139742,42	750376,543	956677,046			
	3841,5	-1842190,11	38821,72	35029,61	-35029,61	-1228993,38	-1078428	-1126899,18	-1063444,46	-1600497,76			
4F8	0	-1609211,97	59467,31	22971,49	-22971,49	-1614612,08	-1572181,64	-1710306,37	-1254814,63	-1495966,91			
	1920,7	968512,44	20549,77	-113006,53	113006,53	1183069,76	980693,805	1144826,82	760665,319	964637,073			
	3841,5	-1658887,17	14092,11	-249588,55	249588,55	-1967103,23	-1929993,36	-1466060,81	-1717600,15	-1268452,66			
4F9	0	-1609402,91	59516,12	-86969,84	86969,84	-1167979,3	-1119541,65	-936904,986	-936782,475	-930216,789			
	1423,4	642820,15	21940,21	202212,84	-202212,84	822246,516	696758,102	481111,174	787049,691	369366,579			
	2844,8	-966462,46	38255,1	561295,5	-561295,5	-629365,489	-778154,2395	-1144015,12	-10566,262	-1005172,16			

5A1	250	-37117748	-5353615,6	144006470	-144006470	-51107090,4	107809986	-195856500	95739849,4	-1635517961	318704113	2748418334	
	1625	6661701,96	4428941,12	84266624,3	-84266624,3	15037148,1	79860301,9	-66303800,1	63637942,6	61648030,1	-176995239	-567810571	
	3000	27036371,1	9036063,19	168669224,7	-168669224,7	49341078,4	21179102,3	54923474,2	10599421,8	39515036,2			
5A10	250	-10997799,9	-2553919,72	16267460,4	-16267460,4	-40887631,4	12560590	-18492297,8	10990612,4	-1650081,6			
	1625	9751078,78	5468913,2	87508481,4	-87508481,4	19252356,6	85013221,7	66822600,3	66705615,2	62463671,4			
	3000	20665176,9	8508028,94	174975626,8	-174975626,8	44432005,1	16694457,4	52039471,8	7260796	38758522,4			
5A11	0	33440246,8	12236887	17079946	-17079946	59710916,4	6468691,8	29751820,9	44665476,2	14722369			
	550	8793844,39	3819829,88	7453480,92	-7453480,92	16884341,8	5017131,09	10998941,3	1208327,47	14822693,2			
	1100	-14210706,1	-5013166,09	-31980911	31980911	-31079911,5	-58486639	8671274,13	-46072455,4	11493194,4			
5A12	0	39988040,2	12295191,8	17947560,6	-17947560,6	69976135,1	65003764,7	20668002,1	45642204,4	14618707,9			
	550	9194196,49	3851180,37	7108799,49	-7108799,49	17354899	5920527,21	20961985,1	1878866,3	14672687,4			
	1100	-18555095,5	-4906901,59	-31566131,4	31566131,4	-29956998,3	-57168566,6	9118109,14	-45108205,1	11709031,4			
5A13	0	29643599,9	10086725,4	16210464,2	-16210464,2	51711426,4	20603927,9	67682251,8	12087019,2	41271682,6			
	875	6119231,51	-127978,41	69984239	-69984239	7138476,66	-68129101,1	78737800,8	-66678616,7	67665125,6			
	1750	-20036091,1	-12017282,7	-121754941	121754941	-50469761,8	-156605869	89149513,4	-123011032	95147067,6			
5A14	0	27991554,5	9342629,25	-17654062,9	17654062,9	47818072,2	19063150,8	66126802,9	8763742,42	40641056,5			
	875	1251184,37	-1996934,06	-71542967	71542967	1630093,24	-77734090,4	78647134,3	-66092804,4	67314736,2			
	1750	33518851	-15010501,6	-129401976	129401976	-64209423,8	-156283167	86623752,2	-146666554	95321722,5			

	2000	-47177460	-1480710000	-46530.16	46530.16	90084019.9	-63447575.7	-63049882.3	-42600711.2	42416960.6			
SA9	0	3.69406E+27	7439079.41	1004433.49	-1004433.49	39011250.1	31994743.7	29895434.2	21235554.5	19427575			
	1000	-12027366.2	-6486272.59	5356693.68	-5356693.68	-21578652.5	-18266366.8	-17611734.6	-10542675.5	-11008883.1			
	2000	-6408667.9	-1637162.21	80776.04	-80776.04	-4110248.13	-2217148.7	-1731174.2	-485999.93	-497016.1			
SA10	0	-48079733	-1444264.24	86776.04	-86776.04	-7836148.2	-5146092.8	-4208889.7	-1414166.2	-1416138.2			
	1125	-9598675.27	-3765140.16	460660.7	-460660.7	-1633064.01	-1095984.3	-1209244.8	-614480.42	-731524.91			
	2250	19600979.4	6696301.46	888091.66	-888091.66	3444834.6	2595550.4	2904158.3	1555942.9	1044784			
SA5	250	16261612.4	7434277.94	103741.074	-103741.074	3140377.1	1607731.67	1215778.67	1308503.17	-116214.45			
	1525	24289082	1186264.73	76656791.2	-76656791.2	6260.0110	131254.975	-32669541.1	12295.020	178112.1			
	3300	31309455.6	11419803.8	17175505.5	-17175505.5	65841507.4	61410730.9	7042.0089	4381.0462	125.08752.4			
SA6	250	14884789.5	6977143.66	1387461.04	-1387461.04	2992115.8	1674648.5	-1239.0032	197869.81	-111652.23			
	1525	3549197.8	1156204.5	79101.978	-79101.978	6139061.6	5400027.7	-3398.178	10227.054	30499.08			
	3300	31431107.6	11419101.1	17657830.2	-17657830.2	56609923.2	52991154.2	2539.0104	4418.0044	17.099.49			
SA7	250	-1269.0590	-497.02047	404.4826.7	-404.4826.7	240.111591	5.1116434.8	-1.0.0150472	3.0.0142.57	-249.564606			
	1525	9132666.79	2067416.61	100779.460	-100779.460	1438.0230.1	137.074.388	-5426.4943.1	9.9916.911.4	80.947.229.3			
	3300	121842421	4413436.9	81072968.3	-81072968.3	2147.0.0.87	2359.0.0.26	107667.092	166.46.80.2	5553.7.09.2			
SA8	250	-1907.05151	-52.877451	1413.70.729	-1413.70.729	-2.0.161.0.103	-80.865.254.4	-3.987.42.946	2.9.4.1.0.0.9	2.9.0.7.0.0.2			
	1525	10629384.3	2.3.6.0.0.2.49	1.0.7.0.7.364	-1.0.7.0.7.364	1.6.6.3.0.46.1	1.2.6.6.4.0.41	-9.9.8.1.3.2.2.6	1.0.5.6.2.0.7.3	-9.7.4.7.1.8.1.5			
	3300	15424.1.47.9	4.0.0.7.2.1.7.9	6.4.0.4.3.0.3.7	-6.4.0.4.3.0.3.7	2.6.1.9.0.2.5.19	2.7.4.9.4.1.0.3.4	1.3.8.6.5.9.9.3.1	7.0.9.6.6.2.7.9.2	6.0.9.4.4.2.0.7.7			
SA9	250	-140384.664	-47.942.160	1.3.7.2.8.6.5.9.3	-1.3.7.2.7.9.6.5.9.3	-2.4.5.1.8.0.9.4.2	-4.0.6.6.5.5.0.2	-3.0.6.9.7.3.6.5.7	-2.7.2.4.4.5.9.6.7	-1.4.9.8.1.6.7.4.9			
	1525	2651442.6	2078784.21	9.5.0.4.2.2.0.2.8	-9.5.0.4.2.2.0.2.8	6.9.8.4.5.6.3.8.6	1.0.4.9.2.4.4.9.3.1	-9.4.9.6.4.2.8.7.3	8.7.9.2.4.0.0.7.7	-8.1.1.6.1.7.1.1			
	3300	114518670	-42452792.7	52794862.7	-52794862.7	2.0.6.1.4.7.0.2	2.1.6.2.9.6.1.6	1.0.5.4.0.0.7.9.2	1.5.0.6.2.4.5.0	5.5.5.1.8.9.6.7			
SB1	150	8867729.83	2660221.95	2041781	-2041781	11607320.4	11929919	-6742220.96	7145507.26	-3470097.46	87987467.6	211990751	
	2250	14077179.4	4261954.16	-2965593.36	2965593.36	24102299.5	18830334.6	19451096.6	16211663.4	17206264.6	-168437976	-221008704	
	4350	-9236720.59	1.2.4.7.9.3.0.19	1.4.4.8.6.1.4.2.4	-1.4.4.8.6.1.4.2.4	1.0.6.8.3.4.1.17	1.0.6.8.1.2.4.0.2	8.1.0.9.0.9.8.1.3	-1.8.0.8.2.5.9.7.2	-4.2.1.5.9.3.7.0.5			
SB10	250	-21131954.2	-8213940.55	-87794.86	87794.86	-3530.3650.1	-2815.4.00.4	-2.7.9.7.9.4.3.1.2	-1.6.0.9.7.7.7.4.1	1.8.9.6.7.4.0.3.4			
	2252.5	16.2.9.0.2.0.5.71	2.7.9.4.0.0.7.1	8.6.1.9.0.46	-86140.46	2.2.7.7.0.0.5.2	1.8.7.6.0.7.1.9.4	1.8.4.7.6.4.1.9.2	1.3.4.0.5.6.5.6	1.0.6.9.1.0.1.0.4			
	4275	-2.1.8.1.8.6.5.0.8.1	-1.7.6.0.7.2.3.7.8	2.6.4.1.8.1.7.9	-2.0.4.1.8.1.7.9	-2.9.0.0.4.1.9.4.8	-9.4.2.0.6.7.8.6.2	2.4.8.5.0.5.6.7	1.9.3.9.8.9.1.3.9	1.9.8.7.4.4.1.2			
SB11	225	-2.4.2.0.3.9.4.6	-3.9.2.7.0.4.0.0.7	2.7.1.1.2.5.0.1	-2.7.1.1.2.5.0.1	-2.6.1.9.1.9.7.2.1	-2.6.6.1.8.0.0.5.3	-2.6.2.9.1.2.6.6.4	-2.1.9.3.9.4.4.0.2	-2.9.7.4.4.9.5.6			
	2250	18.4.8.9.1.52.1	3.2.5.8.2.9.0.7.3	-1.6.7.5.2.9.6.66	167596.66	2.6.0.0.0.2.5.9.5	2.0.2.1.6.7.2.9.4	2.0.5.6.6.6.1.4.4	1.4.8.9.9.4.0.8.9	1.4.9.1.1.0.9.2.8			
	4275	-1.7.3.8.4.1.1.6	-3.2.0.6.9.7.2.4	-6.0.6.3.1.2.9.4	6063129.64	-2.5.9.4.1.3.2.3.4.6	-2.1.9.2.0.0.9.6.3	-2.0.6.4.0.8.2.7.1	-1.6.1.3.1.3.1.2.1	-1.5.1.0.0.0.1.7.6			
SB12	225	-2.1.4.2.1.2.5.0.2	-4.4.1.3.4.2.9.58	-4.2.8.9.9.0.9.19	4.2.8.9.0.9.19	-2.2.7.5.0.0.4.8	-3.1.2.7.7.1.4.6.5	-2.2.0.5.8.3.3.7.2	-2.2.3.2.2.0.5.1.8	-1.5.1.0.2.8.2.15			
	2250	1.7.9.4.9.0.1.4.2	3.2.3.4.2.8.4.18	9.8.3.5.2.12	-98352.12	9.9.3.5.2.12	3.5.8.1.6.8.4.7.9	2.1.8.0.1.9.5.7.9	2.0.8.4.4.4.1.8.3	1.6.4.3.1.9.9.8.1	1.5.2.5.4.9.6.6		
	4276	-1.8.8.7.8.0.9.1.7	2.7.9.3.0.9.7.13	4.6.6.6.1.3.27	-4.6.6.6.1.3.21	-2.7.1.0.7.0.2.5.4	-1.7.6.3.6.0.9.4.2	-2.7.2.6.9.2.6.1.9	-1.2.8.6.2.6.6.0.6	-2.1.1.1.8.0.0.4.6			
SB13	224	1.9.0.7.0.3.3.7.9	2.7.8.7.8.3.7.57	-5.6.4.1.1.2.7.27	5.6.4.1.1.2.7.27	2.8.4.0.7.4.6.6	-1.7.7.7.5.2.7.6	2.0.4.1.2.0.9.4.8	1.2.0.1.4.3.9.0.6	2.2.0.9.4.1.9.6			
	2600	19.5.0.6.0.9.2	2.6.4.1.0.0.1.64	-1.0.9.0.4.7.2	1.0.9.0.4.7.2	2.7.6.0.4.5.1.2.6	2.3.8.6.2.5.8.6.8	2.3.0.9.3.6.9.7.7	1.7.4.5.7.3.4.0.2	1.7.8.6.0.6.2.5.4			
	4775	-2.6.6.7.6.5.8.7.5	-4.4.9.3.1.5.4.67	-6.7.6.9.2.2.1.85	6.7.6.9.2.2.1.85	3.9.2.0.9.9.6.6.1	-3.5.0.0.8.7.1.7.6	-2.6.2.1.4.3.6.2.3	-2.9.1.9.1.5.9.8.3	-1.0.8.2.4.9.9.9.2			
SB14	224	-2.1.4.6.1.6.6.4.1	-2.9.6.4.1.4.0.81	-5.9.1.6.3.7.7.66	5.9.1.6.3.7.7.66	-3.0.6.1.6.9.4.2.2	-1.9.1.0.2.0.2.1.4	-2.1.5.6.6.7.1.4.5	-1.3.9.5.1.9.8.1.7	-2.4.6.3.1.4.1.6.5			
	2500	1.9.7.1.2.0.5.2.5	2.7.1.8.1.3.1.89	9.0.6.6.24	-9066.24	2.9.0.0.0.0.6.1.1	2.3.2.7.4.7.7.8.9	2.3.2.5.7.9.3.9.2	1.7.7.4.1.0.6.8	1.7.7.3.5.0.7.6			
	4776	-2.4.7.6.1.4.4.0.4	-4.1.3.6.6.2.1.26	-5.0.0.0.1.4.4.9.5	5.0.0.1.4.4.9.5	-3.0.3.9.7.9.6.1.1	-2.6.1.2.7.4.6.5.5	-1.3.7.3.9.1.3.1.1	-1.7.9.2.1.5.1.6.8	-1.7.0.0.2.0.7.6.9			
SB15	194	2.9.8.6.1.0.2.7.5	-5.4.2.9.7.1.8.3	-1.2.6.6.6.9.5.9.2	1.2.6.6.6.9.5.9.2	2.8.1.4.0.6.5.1.2	-1.0.7.0.0.6.6.4.1	1.5.3.3.7.2.7.9.4	-8.7.9.5.0.3.4.7.4	1.4.0.1.4.6.1.6.7			
	1200	6270041.82	581892.7	2.4.0.9.7.6.6.85	2.4.0.9.7.6.6.85	7.4.1.4.6.2.6.52	3.6.4.7.4.3.1.82	6.7.0.7.9.4.2.00	2.6.7.4.2.4.7.87	6.9.1.1.8.2.7.82			
	2275	-1.6.5.6.4.4.5.5.7	-4.9.1.0.0.5.29	7.8.4.9.1.6.2.85	7.8.4.9.1.6.2.85	3.0.1.2.1.3.6.0.11	-1.6.6.8.0.9.1.6.3	-3.2.3.8.7.5.7.3	-3.0.5.1.4.7.5.5.57	-2.0.7.6.0.2.6.6.7			
SB16	225	1.2.1.8.1.7.4.1.9	1.3.1.0.8.2.4.36	1.0.6.7.8.7.2.4	-1.0.6.7.8.7.2.4	-1.8.7.2.8.0.0.8.1	-2.8.1.5.0.6.6.3.1	-2.5.2.6.2.7.9.8.8	-1.3.8.1.2.8.1.64	-2.0.6.2.4.7.4.2			
	1000	7.4.6.7.5.0.4.7.5	2.1.1.0.6.5.3.92	-7.9.2.7.6.6	7.9.2.7.6.6	1.2.3.2.8.1.5.9.6	3.9.4.2.6.1.6.47	1.0.6.6.7.4.2.8.3	5.4.8.3.9.0.0.53	7.4.2.5.2.7.2.46			
	2275	8.0.3.4.7.4.5	1.3.1.2.2.3.4.12	-1.2.2.5.4.2.6.5.9	1.2.2.5.4.2.6.5.9	-1.0.6.5.0.0.5.1.9	-1.0.2.1.1.8.3.7.2	1.2.5.4.3.1.2.1.3	-1.0.2.6.0.7.1.2.0	1.1.8.1.4.9.6.6.4			
SB17	225	-1.9.2.2.7.9.1.4.4	-4.7.0.0.0.4.9.04	-1.6.9.6.6.6.3.61	1.6.9.6.6.6.3.61	-2.3.9.3.4.3.6.7.7	-2.5.9.9.9.3.8.3.5	-2.2.4.0.5.9.8.9.4	-1.9.8.2.1.2.0.2.3	-1.5.7.7.8.1.2.5.7			
	2250	1.1.4.8.6.6.1.3.9	8.2.4.2.7.6.1.23	7.7.6.7.17.64	-7.7.6.7.17.64	3.5.7.5.6.4.3.6.2	2.9.2.4.4.4.7.8.9	2.7.6.1.2.3.7.1.6	2.3.2.1.1.0.9.8.8	1.8.6.1.1.9.6.7.8			
	4275	-3.5.0.6.8.7.6.3	-9.9.3.1.9.1.9.26	9.2.6.0.0.9.8.36	-9.2.6.0.0.9.8.36	-5.7.6.6.3.6.8.6.4	-4.2.6.0.6.2.6.1	-4.9.4.3.1.4.9.8.7	-2.8.3.6.7.3.7.7	-2.4.4.8.6.7.5.7			
SB18	225	-2.6.4.3.5.6.0.4.5	-2.7.7.5.0.4.3.57	9.8.8.0.3.6.69	-9.8.8.0.3.6.69	-4.2.9.6.4.3.9.6.7	-2.0.0.1.8.3.0.8.2	-2.0.5.0.9.3.1.8.6.4	-2.2.0.0.2.8.1.1	-2.0.7.8.1.2.7.7.1			
	2250	2.2.9.2.4.8.0.6.7	9.2.1.6.8.2.2.64	1.0.6.6.3.3.81	-1.0.6.6.3.3.81	3.8.8.6.9.5.0.4.4	2.6.5.6.4.4.0.2.3	2.9.2.7.7.7.1.3	2.0.0.6.2.3.8.2	2.0.0.5.8.2.6.3			
	4275	-2.6.9.2.4.6.4.7.1	6.2.7.0.5.9.5.66	-7.1.4.3.6.9.1.06	7.1.4.3.6.9.1.06	-4.2.3.4.2.5.2.9.6	-3.4.9.4.7.3.0.9.9	-3.0.4.4.5.8.7.4.6	-2.4.8.7.6.5.6.4.8	-2.9.5.8.8.7.1.0.2			
SB19	225	-3.1.2.9.7.7.6.4.3	-7.7.9.9.0.0.0.82	-2.8.1.4.7.6.77	2.8.1.4.2.7.6.77	-5.0.0.2.3.7.1.8.5	-4.3.1.7.7.1.9.7.6	-3.7.2.6.7.2.1.8.7	-2.4.6.9.1.8.3.6.1	-2.5.6.2.6.1.3.9.7			
	2250	2.0.9.8.2.6.7.2.5	5.9.9.0.6.9.8.45	-5.6.9.3.1.61	5.6.9.3.1.61	3.4.7.4.8.2.8.4.5	2.7.8.2.3.6.8.3.6	2.7.7.4.3.2.3.8.7	1.9.8.2.3.9.7.7.3	1.8.9.2.5.6.6.3.2			
	4275	-2.0.9.5.7.1.2.9.3	6.7.2.0.0.8.7.6	2.7.0.0.4.1.3.82	2.7.0.0.4.1.3.82	-1.9.5.0.0.9.6.8.1	-2.8.8.7.0.0.3.4.7	-2.0.4.0.4.0.9.0.3.7	-1.9.1.2.1.0.4.4.5	-2.0.9.9.1.7.8.9.3			
SB2	150	-6.2.9.3.6.6.4.07	-2.8.7.2.0.9.6.37	-1.8.6.9.1.2.2.98	1.6.6.9.1.2.2.98	-1.2.1.1.1.6.2.3.6	-1.1.0.3.2.9.7.2.5	-7.5.4.8.1.4.27	-7.1.3.0.4.3.8.56	-4.1.9.4.0.1.4.98			
	2252	1.4.3.7.6.3.1.3.8	4.2.6.1.8.4.1.66	9.1.3.7.1.2.66	9.1.3.7.1.2.66	2.4.9.7.6.6.2.3.3	1.8.7.9.3.1.7.1.6	1.9.4.5.1.9.6.8.2	1.2.0.6.6.9.4.1.1	1.3.2.2.1.0.2.3.9			
	4650	-2.8.7.1.5.9.1.67	-1.1.7.6.2.0.3.86	1.0.3.1.6.9.7.56	-1.0.3.1.6.9.7.56	6.4.8.7.9.9.6.16	-2.1.3.7.9.9.6.93	-5.3.0.4.6.9.2.86	-1.9.5.9.0.4.6.66	-3.6.1.2.9.6.0.39			
SB20	250	-9.2.8.2.4.0.36	-1.0.7.0.8.1.6.5	-1.0.6.0.2.6.6.39	1.0.6.0.2.6.6.39	-5.5.9.4.2.1.6.9.4	-4.5.2.8.4.3.1.4.4	-3.1.1.7.2.0.4.7	-2.3.6.0.0.1.6.6.4	-2.8.5.0.3.1.4.4.6			
	2252.5	2.1.4.8.6.1.5.0.3	6.8.0.0.0.0.0.26	2.0.4.9.0.6.71	-2.0.4.9.0.6.71	3.6.2.6.3.3.8.1.8	2.8.0.1.2.1.7.4.1	1.8.4.5.6.4.2.3	1.9.1.5.3.0.2.2	1.9.5.2.1.9.7.8.3			
	4275	-2.0.0.1.1.4.4.6.7	-6.0.7.3.6.1.5.55	5.6.5.4.1.9.97	-5.6.5.4.1.9.97	-3.0.6.1.0.8.7.3	-2.4.2.6.1.0.7.9	-2.6.5.4.4.6.7.6	-1.7.6.9.6.4.0.4	-1.9.8.7.0.1.7.1.9			
SB21	250	-3.2.6.8.2.3.68	-1.0.6.4.6.3.52.1	-1.4.2.2.7.7.9.62	1.4.2.2.7.7.9.62	-5.6.1.3.2.9.9.4.6	-4.5.7.6.6.1.6.8.3	-4.2.7.7.9.7.0.4	-3.0.6.0.4.6.1.5.8	2.9.0.4.3.6.2.8.6			
	2252.5	2.1.5.9.8.7.7.1.2	8.0.6.7.6.0.8	-1.5.4.2.1.2.62	1.5.4.2.1.2.62	2.5.6.1.4.9.4.2.2	2.9.2.4.0.2.6.1.1	2.9.6.8.4.1.0.7.8	1.9.2.0.1.1.0.2.7	1.9.5.5.0.6.0.5.4			
	4275	-2.0.0.4.8.1.9.0.7	-3.4.2.6.2.2.1.1	1.1.1.4.3.4.5.6	-1.1.1.4.3.4.5.6	2.9.8.9.9.7.7.0.6	-2.9.4.8.3.3.0.5.5	-2.6.7.7.0.4.3.1.4	-1.7.3.1.0.4.5.1.7	1.9.3.1.9.2.7.0.6			
SB22	225	-3.9.4.2.8.6.8.1	-6.2.3.6.6.0.2.4	-3.0.4.9.2.2.4.07	3.0.4.9.2.2.4.07	-5.0.4.4.9.4.0.6.1	-4.8.4.9.2.2.3.9.2	-3.9.4.5.0.6.6.7.1	-3.3.1.8.0.5.6.0.2	2.7.0.7.1.6.4.5.5			
	2252	2.1.7.0.6.5.6.8.9	5.9.7.6.6.5.1.71	5.7.0.7.5.4.4	5.7.0.7.5.4.4	3.6.1.2.3.0.1.6.1	3.4.8.9.0.0.1.7.2	2.8.0.7.9.0.6.5.3	1.9.1.0.4.9.2.6.7	1.9.2.0.7.5.9.1.1			
	4275	-2.1.1.6.7.8.9.2.7	-6.1.9.3.5.2.8.41	3.2.5.0.7.7.67	-3.2.5.0.7.7.67	-3.5.3.1.1.1.6.3	-2.4.8.2.3.4.1.1	-3.1.4.7.6.0.0.4.2	-1.6.1.3.6.9.0.3.5	-2.1.6.0.2.6.7.0.2			
SB23	225	-2.8.4.8.0.6.1.0.7	-3.0.6.2.4.4.1.37	5.3.0.4.2.9.66	-5.3.0.4.2.9.66	-4.7.5.4.0.6.3.6.7	-3.7.2.4.0.7.47	-3.9.3.6.9.4.8.3	-2.6.1.5.5.1.6.2.9	-2.6.1.0.9.9.0.6.3			
	2250	2.1.8.4.5.0.8.6.1	6.1.1.0.1.2.1.05	4.1.3.4.0.03	-4.1.3.4.0.03	3.5.9.9.1.2.7.1.8	2.8.7.6.6.6.0.0.6	2.8.6.6.8.0.4.5.9	1.2.6.9.3.5.0.2.2	1.9.6.2.4.0.9.0.3			
	4275	-2.6.0.3.7.8.8.1.8	-5.9.0.7.7.2.2.66	-4.4.7.7.4.9.01	4.4.7.7.4.9.01	-2.9.4.9.7.6.4.6.5	-2.1.3.4.2.5.2.6.5	-2.1.4.0.2.2.6.8	-2.2.9.3.9.6.6.9.8	-2.2.1.0.9.2.1.6			
SB24	225	-2.5.1.4.0.6.5.3.2	-5.8.6.6.0.0.1.81	-3.2.8.7.7.2.0.38	3.2.8.7.7.2.0.38	-9.9.2.3.7.0.2.6.7	-3.6.2.3.4.7.3.5.8	-2.8.3.3.1.6.0.1.4	-2.6.5.6.6.0.9.1.6	-1.9.6.6.8.0.8.4.1			
	2250	2.0.4.3.8.9.7.5.3	5.6.6.3.1.4.8.51	1.9.3.0.9.7.79	-1.9.3.0.9.7.78	3.3.9.0.7.9.0.9.7	2.7.2.1.0.9.3.6.6	2.6.7.9.2.2.6.4.2	1.8.5.7.4.5.0.8.6	1.8.2.1.5.6.4.6.8			
	4275	3.1.1.9.1.4.0.7.3	0.0.6.5.2.8.4.27	3.6.6.0.9.6.1.82	-3.6.6.0.9.6.1.82	-5.1.9.1.9.1.6.0.7	-3.7.4.2.7.9.9.0.7	-4.5.1.7.8.1.0.5.6	-2.4.7.5.4.6.2.8.4	-2.1.2.8.0.6.0.9.7			
SB25	225	-2.9.4.8.2.1.5.4.5	-7.5.4.0.9.8.6.5.63	1.8.9.2.2.6.8.93	-1.8.9.2.2.6.8.93	-4.7.3.4.8.1.3.6.2	-3.9.2.2.0.6.4.2.3	-3.9.7.7.5.4.07	-2.4.9.2.7.9.9.7	-2.7.9.0.5.6.8.1.1			
	2600	2.8.4.0.0.3.9.7.8	7.8.7.8.7.0.5.11	2.3.2.1.7.7.77	-2.3.2.1.7.7.77	4.8.6.8.4.0.6.5	3.7.5.2.6.9.6.8.6	3.7.0.3.2.0.9.7.3	2.5.7.6.9.3.1.8	2.5.3.6.1.3.9.2			
	4775	-3.7.6.2.7.0.7.6	-1.9.0.3.8.6.8.4.1	1.2.2.8.9.1.3.44	1.2.2.8.9.1.3.44	6.2.6.5.4.7.1.2.5	-5.1.1.3.6.1.4.0.4	-4.8.5.5.5.4.2.1.2	-3.4.4.7.0.8.6.4.6	-3.2.7.5.8.6.1.5.4			
SB26	225	-4.2.6.5.6.4.2.0	-1.5.6.6.0.8.7.7.5	2.1.0.2.7.1.9.51	-2.1.0.2.7.1.9.51	-7.7.2.9.1.5.6.8.1	-5.7.2.0.0.2.8.2.1	-5.2.0.1.0.9.0.4.5	-3.9.4.7.8.5.4.3.5	-4.2.0.8.0.4.0.9.4			
	2252.5	1.6.4.6.0.8.9.4.2	5.9.7.9.4.8.0.16	1.0.4.1.2.1.6.24	-1.0.4.1.2.1.6.24	2.8.0.7.9.3.4.7.4	2.3.0.3.0.0.6.7.6	2.0.4.8.6.5.1.3.4	1.6.2.1.1.6.7.8.5	1.2.7.8.7.4.6.9.7			
	4500	5.1.1.8.3.7.4.6.9	1.9.3.9.7.7.8.7.6	-4.2.1.2.8.1.11	4.2.1.2.8.1.11	9.2.4.4.0.9.5.6.7	7.1.6.2.2.0.4.8.5	7.2.0.6.7.3.0.6	4.9.6.8.0.2.1.8.2	4.6.4.4.6.5.2.6			
SB27	225	-4.3.0.3.0.7.9.4	-1.5.5.8.4.3.7.1.4	2.6.2.6.4.9.6.24	-2.6.2.6.4.9.6.24	-7.8.0.2.6.5.4.7	6.7.3.6.0.4.4.0.6	6.2.9.4.4.8.5.7	-3.6.6.2.9.4.6.8	-4.1.7.2.3.6.1.2			
	1862.5	1.6.7.2.8.9.2.1.9	5.8.6.7.2.0.6.24	1.1.0.6.2.7.8.30	-1.1.0.6.2.7.8.98	2.8.2.6.2.1.1.8.2	2.0.2.2.1.3.6.5.8	2.0.3.9.8.1.7.9.9	1.5.1.5.1.5.9.0.7	1.1.1.8.0.2.8.8.6			
	3600	5.1.1.9.7.4.6.4.6	1.9.3.9.8.9.2.6.8	-4.2.2.8.0.3.16	4.2.2.9.0.3.16	9.2.4.5.9.2.4.9.5	7.1.6.3.5.7.9.3.9	7.2.6.2.3.9.6.4.1	4.8.6.9.7.0.7.3	4.6.4.6.3.8.2.4.6			
SB28	0	-8.7.5.1.4.9.0.94	-3.4.3.2.0.7.8.35	-2.1.6.1.3.4.74	2.1.6.1.3.4.74	-1.6.9.0.3.6.9.1.3	-3.6.1.7.6.0.6.8.8	1.0.2.6.1.4.4.6.6	-2.7.9.2.8.4.6.6.4	1.1.5.7.6.7.0.4.8			
	2387.6	1.4.7.1.2.9.0.2.9	6.6.0.7.2.1.6.96	1.2.7.2.4.8.6.7.3	-1.2.7.2.4.8.6.7.3	2.6.1.1.5.1.9.0.6	2.4.9.8.7.4.2.0.2	9.2.6.5.2.0.1.94	2.4.6.9.3.9.9.0.1	1.7.9.9.2.3.2.07			
	4775	-1.9.0.2.7.2.2.4.1	-4.4.7.7.7.6.3.50	4.7.6.5.2.0.8.1	4.7.6.5.2.0.8.1	-3.0.0.5.7.0.9.0.6	2.4.8.9.1.2.9.4.5	-7.0.0.4.1.4.0.3.2	2.4.9.8.2.3.8.6.5	5.9.7.5.1.2.8.7.1			

5B09	0	-19905619,9	-6464790,25	24960,81	-24949,81	-34253209,3	-27000093,5	27047793,1	-17890218,1	-17909717,7				
	2500	0121888,1	166271179,7	5053917,77	-5053917,77	61031414,4	50084039,5	4177020,2	2815181,1	24095739,2				
	5000	-19081267,2	-7693140,75	10076535,5	-10076535,5	-36206652,8	16732900,91	-37997815,6	-6181456,51	-26749682,7				
5B3	160	11644200,2	1405519,3	3447799,41	-3447799,41	18221935,7	49756139,5	2204979,2	4160920,3	20650159,1				
	1200	-2246576,62	-358406,77	-3529445,06	3529445,06	-1167035,78	8144775,96	1064482,18	-630420,71	1146482,79				
	2250	-24404177,5	-5456613,52	-41604669	41604669	-16411601,1	73447203,2	10775600,7	-5934495,2	16417400				
5B30	0	-9488317,74	-2288960,52	-21696142,5	21696142,5	-10811310,1	-34035960,2	10861901,1	2715114,5	11086142,5				
	2987,5	14454474	6606067,27	12753021,9	-12753021,9	27668179,4	84409304,8	8066497,74	2466712,3	16111137,06				
	4275	19929355	-4553808,66	47201990,4	-47201990,4	31249281,4	243044478,6	74819214,9	24545295,4	50417966,2				
5B31	250	-13141764,4	-4766721,1	9468308,19	-9468308,19	2219857,04	-19247609,4	1852591,24	-1177497,97	-10875369,9				
	625	-8040976,2	-3421640,1	-3519695,94	3519695,94	-15043779,6	-12705444,1	-1195849,82	-812005,17	-7435106,19				
	1000	-5120555,5	-2098430,3	1429496,33	-1429496,33	-9031110,3	-12510001,2	-7860134,6	-4481040,9	-4870546,2				
5B32	0	1182011,91	-4567020,7	3092740,61	-3092740,61	2123997,51	1665540,71	1612647,12	1040846,41	1911477,03				
	1750	4750194,9	19012803,7	2694010,1	-2694010,1	8764498,01	70781424,21	6611457,9	4621110,1	4841377,2				
	3500	6097840,1	-2440087,4	1505876,06	-1505876,06	-1122255,71	-35512295,1	3507669,9	-5555272,6	5622636,1				
5B33	0	1181899,1	-4567044,6	3092448,12	-3092448,12	2123998,68	1665540,71	1612345,99	1040729,65	1910962,99				
	1750	4738973,44	19020421,6	2567161,69	-2567161,69	87897407,6	70670049,3	6559195,5	4552056,4	4805165,4				
	3500	-6010,17	-2439470,2	1176876,61	-1176876,61	-1115971,1	-8521446,91	-6770179,5	-4029097,3	-5541497,1				
5B34	250	-14007192,5	-4762174,9	-9679356,19	9679356,19	-2209042,59	-19197008,5	-1651201,29	-1174066,51	-9952095,1				
	625	-8589556,4	-3418608,6	-4176295,02	4176295,02	-1575309,02	-12667035,8	-1179881,27	-808456,8	-7336703,4				
	1000	-5170288,8	-2096177,5	1626192,68	-1626192,68	-9559429,21	72499520,2	-7570446,9	-4516090,1	-4798126,7				
5B35	250	-10771583,8	-4568708,65	-4871414,6	4871414,6	-1901504,8	-16529042,1	-1481305,8	-1023548,7	-5718718,1				
	1187,5	12171726,7	4383684,06	2400811,7	-2400811,7	21619466,6	40102318,1	-9291529,15	3042400,1	-11614951,9				
	2125	26877016,7	8710729,94	219023,65	-219023,65	46948523,5	63471420,5	2601307,1	5440555,6	23810096,4				
5B36	250	-14107072,5	-4552704,87	-4966381,19	4966381,19	-1957284,6	-16880163,4	-1465652,9	-1011480,8	-5734881,4				
	1187,5	11906092,2	4229707,93	2494453,31	-2494453,31	21211261,8	42888875,1	-9514048,81	3026549,1	11561985				
	2125	26641838,2	8599222,72	194697,05	-194697,05	45888960,9	63399127,8	3690026,4	2415280	23802426,3				
5B37	0	27465111,2	8855141,77	340868,09	-340868,09	46464812,2	67167479,9	3645161,8	2602394,4	24411666,5				
	987,5	6446043,04	726837,25	-2659746,8	2659746,8	7607423,25	-20472883,4	3020039,9	1613995,3	27099412,7				
	1975	-20226806,2	-8755692	-51536364	51536364	-40084852,4	-93066704,9	-5513957,8	-3755957,7	-20066779,6				
5B38	0	27428811,6	8427899,36	315600,81	-315600,81	48391192	37091155,7	3642560,8	2486089,1	24401479,6				
	987,5	6666582,69	760237,04	-2562825,1	2562825,1	7936582,25	-20312285,8	3050704,1	1802956,6	23102356,2				
	1975	-20899260,6	-8071287,39	-51672000	51672000	-42963161,3	-92669192,2	-5681201,9	-3784140,9	-20405409,1				
5B39	250	-13934417,7	-4999974,6	-633757,09	633757,09	-1946821,66	-16672509,2	-1644227,01	-1120801,05	-7239349,2				
	2375	47966197,8	7892501,04	260754,83	-260754,83	58995439	57303213,8	6678208,6	4035157,4	42926999,7				
	4500	121995095	21694171,9	1155268,74	-1155268,74	104284709	151572075	14914681,2	9106883,6	108465946				
5B4	160	-281760,25	-1821094,42	26051322,7	-26051322,7	-2957507,36	14480777,4	38947002,1	31292599,1	-31790720,8				
	1200	-2470795,92	-4571835,19	-5602552,91	5602552,91	12676991,4	-20147409,5	-6392039,41	-13556013,9	-3481418,71				
	2250	-22668046,7	-7408816,94	-46256432	46256432	-19077456,2	-79349826,3	17791880,4	-61931120,9	21300047,7				
5B40	250	-13682793,9	-2068019,4	-496416,4	496416,4	-1822171,1	-16773228,9	-1625809,6	-1029591,4	-7226983,6				
	2375	48711131,5	7041702,56	227414,6	-227414,6	70043210,3	59303988,2	5766387,6	4413493,8	43646345,5				
	4500	121668757	20992211,2	1161245,81	-1161245,81	184825886	151600048	14914240,1	9106556,2	108465780				
5B5	160	1701376,82	1279098,55	36096562,2	-36096562,2	-6077,464	3850667,5	-37276210,1	24068144,6	-30919667				
	1200	-10471997,7	-4373660,71	5091936,98	-5091936,98	-1966480,4	-20475510,5	8702319,98	14007594,1	-4842001,66				
	2250	-28671806,2	-7474469,06	-46270553	46270553	-43840078,4	-82507836,7	18620525,6	-55557342,6	17729052,9				
5B6	160	13111536,4	2191907,5	3661880,3	-3661880,3	19049895,7	54097949	-22591117,4	44657125,5	-21956269,9				
	1200	-2440531,82	-366867,02	-3721212,56	3721212,56	-2486026,39	-8796028,6	1018919,86	-5636688,84	1161612,55				
	2250	-26222367,8	-5207809,22	-43961029	43961029	-24926506,1	-78690596,4	13627504,6	-53166957,1	15353895,1				
5B7	225	-19808802,7	-4139060,36	-4656799,54	4656799,54	-3039671	-29533696,9	19764317,8	-21839088	13455829,8				
	2250	17268062,8	3202302,52	109946,86	-109946,86	23853047,7	21324525,7	21032707,3	15884299,7	16404186,3				
	4275	-20211341,2	-2954303,92	4934690,03	-4934690,03	-23991059,6	-16832808	28195663,4	-13748983,4	22531400,8				
5B8	226	2073616,33	-566695,77	-172668,7	172668,7	-3486314,8	-28743600,5	-28381696,2	2151142,5	-21205108,8				
	2250	18077415,4	3237714,46	-159472,97	159472,97	24489242,8	19782930,8	20117824	14326148,1	14613200,5				
	4275	-18507290,4	-3300844,1	-146277,25	146277,25	-27474099	22696093,7	-22088911,6	16700210,9	-16524911,8				
5B9	250	-21364165,7	-6141879,71	-886985,99	886985,99	-35484004,3	-29166734,5	-27206164,2	-20025136,4	-18400361,9				
	2262,5	15700523,4	2784118,07	-2909,06	2909,06	23296617	19118036,8	19122748,5	14073552,9	14105789,2				
	4275	20759682,8	-1600567,23	880167,73	-880167,73	-27793518,7	-22576017,2	-24423068,4	-17891663,4	-19475365,3				
5BK1	250	6362947,02	-167906,35	-99499,89	99499,89	-6183542,22	-35960598,7	-4892619,4	-3669279,7	-40546094,1	13088569,7	40006234,3		
	1425	6660092,81	1056164,8	4864372,34	-4864371,14	9670019,65	13068469,7	2873287,79	1936298,6	1607410,43	-7664367,8	-19043061		
	2600	-4256625,78	-1145774,87	-2974634,8	2974634,8	-7261189,54	-36668880,1	3556840,1	-2573754,5	22936908,1				
5BK10	160	-16305144,2	-4256162,87	-23306560,3	23306560,1	-26110418,2	-50899083,1	1066307,3	-40190252,1	12078992,5				
	1025	-3925388,67	-1628362,81	6302800,67	-6302800,67	7167444,42	32329,9726	-1116137,7	1266495,12	-9393191,49				
	2500	-9516290,46	-5577164,42	30974786,4	-30974786,4	39107007,2	26921007,9	-5702604,9	37502652,7	-44301462,9				
5BK11	250	-8029540,9	-2853990,1	10616430,7	-10616430,7	1472088,75	-104223598	12661620,1	-6541980,6	-8461955,7				
	1500	3188661,7	1080761,6	6186048,24	-6186048,24	-6560167,8	-38172869,3	-4927147,1	-2094142,9	-33464607,7				
	2750	999041,85	468869,3	-457,06	457,06	1904032,68	1452417,21	1527618,82	1446809,9	9717849,804				
5BK12	250	-10668888,3	-3921060,1	-1409917,79	1409917,79	-19092305,1	-149316974	-14902359,9	-9814590,7	-9589245,7				
	1600	-4066196,9	-1564284,5	473944,05	-473944,05	7669230,7	-56430352,4	-5048542,6,9	-3632021,7,1	-39173136,3				
	2750	2051549,79	800583,04	1088385,92	-1088385,92	3470791,41	3892832,42	1697221,89	2825941,24	966846,567				
5BK13	250	-9573899,47	-3191038,9	4420742,62	-4420742,62	-1524660,74	-11473837,7	-1266677,7	-72703885,9	-81590720,7				
	1600	-3215034,6	-1158524,5	2399369,35	-2399369,35	-5711,9807,2	-42186561	-47225278,6	-26775881	-31094761,3				
	2750	2905444,66	1050269,08	1219603,74	-1219603,74	5166964,11	3915159,24	4171283,09	2505102,82	2729497,55				
5BK14	250	950116,46	-1304563,5	41649115,3	-41649115,3	-1091155,51	43308034,3	-42946807,9	38249307,7	-36539099,9				
	1425	2129471,58	291251,3	5206375,37	-5206375,37	9021988,1	7977671,86	-2966516,4	5602262,25	-27692113,3				
	2600	-7531063	-1321052,87	-11138998,2	11138998,2	-11150976,2	-41849207,2	23597166	-34000668,1	21244774,7				
5BK15	0	20468764,2	-739121,73	-07399	37399	20361910,1	20708702,8	20817240,7	19374719,8	18442807,8				
	987,5	-41999396,72	-1035222,5	5551730,58	-5551730,58	-7159402,98	-12540018,9	1217816,28	-4676814,58	2117100,47				
	775	-29333196,8	-1911723,3	-13066061,3	13066061,3	-38317955,6	-46377923,4	-16909194,7	-38204332,8	-14884642,8				
5BK16	0	20362780,7	-738164,53	65061,75	-65061,75	20254249,5	20751648	20615018,4	19385040,2	18267929				
	987,5	-41437977,93	-1009651,72	-5545359,61	5545359,61	7067496,18	-17460795,2	1224469,93	-4619863,7	2161783,6				
	775	-29190168,6	-1881102,97	-13156790,5	13156790,5	-38026824,6	-46230422,9	19502290,7	-38022351,1	-14821949,2				
5BK17	0	7461208,77	-1905131,75	-14831084,6	14831084,6	6900275,72	9643687,63	21711690	-8722681,25	20153091				
	987,5	1218746,83	-875869,02	-3330415,98	3330415,98	381105,284	-2855949,11	4137924,44	-1900592,24	4094246,63				
	775	-5564396,87	663393,09	6278262,65	-6278262,65	-5779847,2	3374606,06	13997925,5	2444270,21	-12493164,6				
5BK18	0	7847691,3	-1875224,41	-14993271,6	14993271,6	6178670,6	9494946,38	22000924	-8611022,27	20376868,6				

	67.6	121907402	-6696502.41	-2295.16	2296.16	4607648.4	2.6	41.6	1.5	1.6	6.7	4.6	
	775	-6718.5	6.8	6.8	-6.8	-6601163.76	0.3	-1.4	0.4	2.6	-13.2	0.2	
SB53	150	-5.4	-1114.6	25.2	25.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1775	9644.2	-51.4	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2600	6.2	4.6	0.8	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB63	150	5.4	1.1	1.2	1.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1400	-6.6	4.6	6.6	6.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2775	10.4	-42.9	6.4	6.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB64	250	-9.9	1.9	1.7	1.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1400	7.4	-14.2	1.6	1.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2750	2975.9	10.7	6.2	6.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB65	150	-1.5	-2.2	6.6	6.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1500	-1.7	-10.7	6.1	6.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2775	10.1	-1.9	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB66	150	-1.6	-1.1	2.9	2.9	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1325	-2.2	1.6	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2600	6.1	-6.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB67	150	1.1	1.1	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1575	1.4	5.6	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2600	-9.2	-1.2	1.2	1.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB68	0	-1.6	1.4	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1075	2.8	4.6	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2750	6.8	9.7	1.4	1.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
SB69	150	-3.6	-6.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	1500	-1.6	1.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	2600	6.1	-6.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

SC1	2.5	-6614079.42	662.08	1.8	1768001.7	-1768001.7	-10770967.6	-8420954.05	-10133988.2	-3451415.95	-3049327.01	3049788.8	-3451415.95
	2250	78941.8	1.8	1.8	100727.82	-100727.82	-1401748.19	1110031.3	1111828.2	1110031.8	1109571.86	1109212.86	-1109571.86
	4075	-1203.8	-476.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
SC10	0	-10170.8	-5.1	-4.9	-4693075.02	-4693075.02	-2781944.9	10670.81	-2072.9	-6.1	-1.1	-1.1	
	2250	19.1	6.3	1.5	210.6	210.6	27.1	2.1	1.1	1.1	1.1	1.1	
	4500	-1.6	-1.1	1.6	-4271023.23	4271023.23	-61.7	-1.1	-1.1	-1.1	-1.1	-1.1	
SC11	0	-2.1	1.2	1.1	787.4	-787.4	-61.1	1.1	1.1	1.1	1.1	1.1	
	2500	14.2	1.1	1.1	-77.2	77.2	-2.1	1.1	1.1	1.1	1.1	1.1	
	5000	-2.1	-1.1	1.1	-6.1	6.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC12	0	-1.1	1.1	1.1	-4.1	4.1	-2.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	2.1	-2.1	-2.1	1.1	1.1	1.1	1.1	1.1	
	4500	-2.1	-1.1	1.1	-7.1	7.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC13	0	-1.1	1.1	1.1	-4.1	4.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC14	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC15	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC16	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC17	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC18	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC19	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC2	125	-6.4	1.8	1.2	2.4	-2.4	-1.1	1.1	1.1	1.1	1.1	1.1	
	2750	2.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4275	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC20	0	-2.7	1.2	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2600	1.6	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	5075	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC3	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC4	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC5	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC6	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC7	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC8	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
SC9	0	-1.1	1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	2250	1.1	1.1	1.1	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	
	4500	-1.1	-1.1	1.1	-1.1	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	

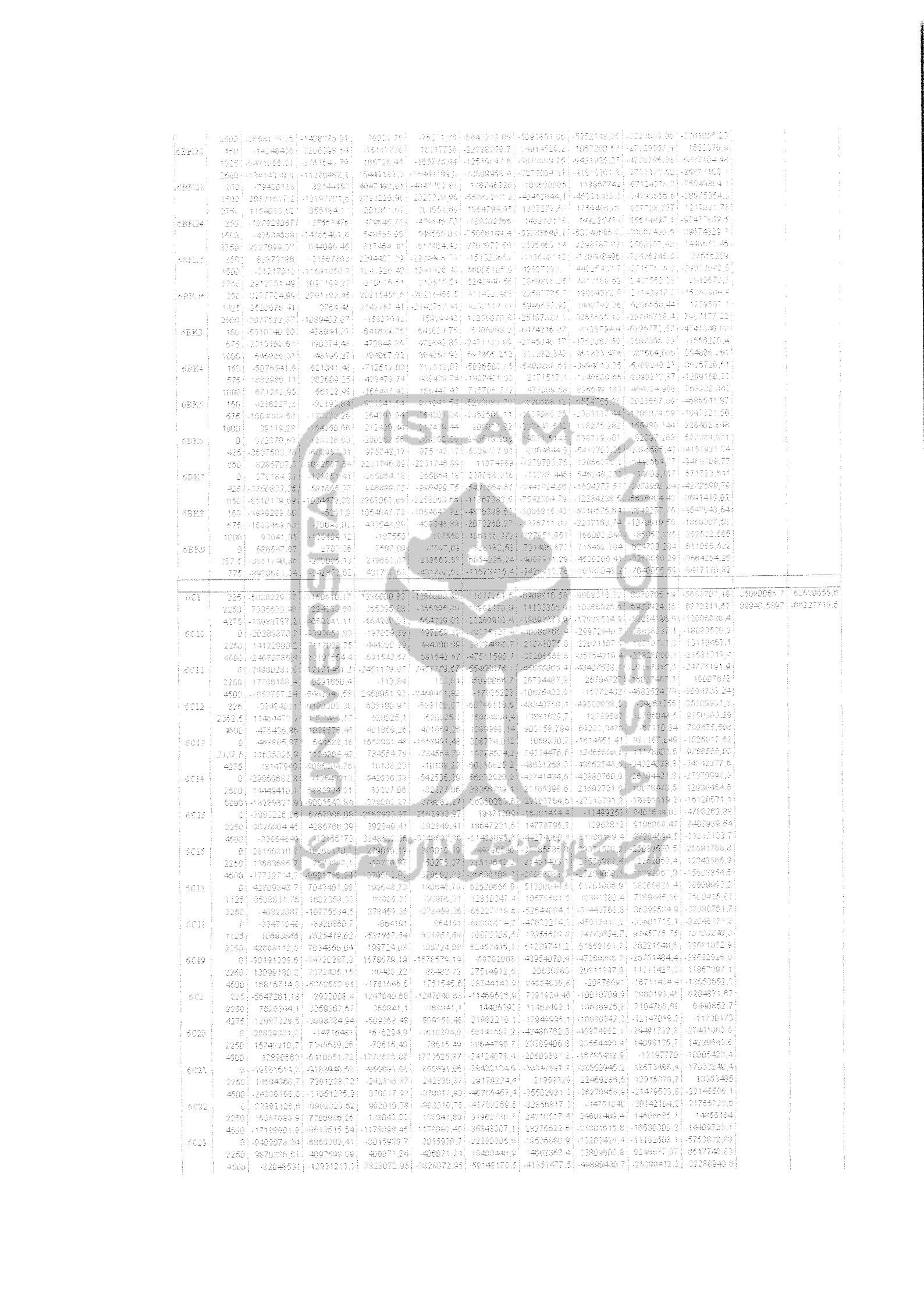
	4500	-24250220,8	-6173006,19	570444,94	-570444,94	40761694,7	-2352[illegible],9	14707267,2	-2171[illegible],3	-22044089,2				
SD1	125	-104024440,3	-3795811,29	-5555866,06	5555866,06	-19199956,1	-2[illegible]024,7	-9165500,7	-1647[illegible],1	-9009012,04	44142847,51	27503060,6		
	1250	9949985,47	-1140486,56	-53041201,84	53041201,84	-8026516,696	-1637499,19	3371205,42	-2087119,05	9801112,89	-26604980,9	-67425005,2		
	2375	-7361316,04	-2221067,18	-52389,48	52389,48	-1141446,17,6	9956207,13	-3796180,27	-8[illegible]104,07	-6956633				
SD10	0	-1104061,74	1617705,05	5519108,65	-5519108,65	-491960,184	8497078,97	-7201136,19	6881589,22	-6044[illegible],1				
	2187,5	2912210,94	1529069,79	1726516,31	-1726516,31	5441946,99	2892696,44	-9[illegible]271,74	1060027,62	4181157,66				
	4375	-20366660,9	-1153[illegible],1	-6981071,97	6981071,97	-5507[illegible],7	53604059,1	-9[illegible]576	-[illegible]765747,7	-1674[illegible],1				
SD11	0	-6376384,32	-2276122,62	4100197,02	-4100197,02	-1126987[illegible]	-4624141,9	-13194555,6	2[illegible]6,67	9430728,91				
	2250	12767744,2	4697026,66	2993159,03	-2993159,03	22151602,7	26561102,6	1437[illegible],2	13826277,6	8482640,95				
	4500	-2638758,46	-3568401,56	1886052,92	-1886052,92	-[illegible]4801,9	-6429508,91	-[illegible]0241	-[illegible]26	-6672[illegible],26				
SD12	0	-4891667,04	-6144946,31	2[illegible]021,58	-320232,58	-[illegible]1,7	11672151,2	-1601[illegible],6	-[illegible]581,11	-[illegible]769,6				
	2250	10914790,1	4990[illegible],21	2[illegible]429,66	-2[illegible]429,66	24577[illegible],6	21541[illegible],1	1[illegible]957,4	[illegible]4[illegible],2	10451[illegible],3				
	4500	-1[illegible],14	1[illegible]544,87	2[illegible]530,17	-2[illegible]530,17	-[illegible]79,66	[illegible]805,71	4[illegible]16,62	6[illegible]27	[illegible]667,66				
SD13	0	2[illegible]266,75	3[illegible]69,86	[illegible]4071,45	-[illegible]4071,45	[illegible]790,42	5[illegible]63,79	-1[illegible]155,23	[illegible]4[illegible],4	[illegible]224,21				
	2437,5	1[illegible]16,16	4[illegible]223,61	-[illegible]533,13	[illegible]533,13	[illegible]187,9	16[illegible]68,41	1[illegible]78,8	1[illegible]04,6	11[illegible]64,2				
	4875	-26527422,3	9[illegible]26,17	-6[illegible]137,66	[illegible]412148,6	-41[illegible]27,7	-2[illegible]2[illegible],8	57[illegible]4	-15[illegible]66,2					
SD14	0	-[illegible]27[illegible]	1[illegible]229,1	2[illegible]6,63	-[illegible]6,63	[illegible]1047	-[illegible]23,3	[illegible]4[illegible],3	-[illegible]1411[illegible],3	[illegible]4[illegible],5				
	3500	3[illegible]3,6	[illegible]31,91	-[illegible]4,27	[illegible]4,27	[illegible]47,5	[illegible]2[illegible],3	[illegible]5[illegible]	[illegible]1[illegible]2[illegible],1	[illegible]4[illegible],7				
	7000	-[illegible]4[illegible]	[illegible]4[illegible],87	-[illegible]1[illegible],43	[illegible]1[illegible],43	[illegible]1[illegible],93	-[illegible]6[illegible],6	[illegible]4[illegible],8	-[illegible]1403[illegible],2	[illegible]4[illegible],2				
SD15	0	-[illegible]4[illegible],92	[illegible]4[illegible],96	[illegible]6[illegible],7	-[illegible]6[illegible],7	-[illegible]1,6	[illegible]4[illegible],1	-[illegible]2[illegible],1	[illegible]3[illegible],2	[illegible]4[illegible],2				
	787,11	-[illegible]3[illegible],8	[illegible]3[illegible],87	[illegible]5[illegible],3	-[illegible]5[illegible],3	-[illegible]1[illegible],6	-[illegible]2[illegible],8	-[illegible]5[illegible],2	-[illegible]4[illegible],7	[illegible]4[illegible],7				
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SD16	0	-[illegible]2[illegible],3	[illegible]3[illegible],5	[illegible]2[illegible],8	-[illegible]2[illegible],8	-[illegible]1[illegible],8	[illegible]4[illegible],8	-[illegible]4[illegible],4	[illegible]2[illegible],6	[illegible]4[illegible],2				
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SD15	250	-[illegible]4[illegible],2	-[illegible]6[illegible],2	[illegible]2[illegible],6	-[illegible]2[illegible],6	-[illegible]1[illegible],7	-[illegible]7[illegible],7	[illegible]4[illegible],7	[illegible]4[illegible],7	[illegible]4[illegible],7				
	2625	[illegible]3[illegible],4	[illegible]4[illegible],5	-[illegible]4[illegible],3	[illegible]4[illegible],3	[illegible]7[illegible],2	[illegible]3[illegible],4	[illegible]6[illegible],3	[illegible]4[illegible],5	[illegible]4[illegible],5				
	5000	-[illegible]9[illegible],6	[illegible]6[illegible],2	[illegible]6[illegible],2	-[illegible]6[illegible],2	-[illegible]1[illegible],5	[illegible]7[illegible],4	[illegible]5[illegible],2	[illegible]3[illegible],2	[illegible]4[illegible],3				
SD2	0	[illegible]1[illegible],4	[illegible]5[illegible],7	[illegible]4[illegible],0	-[illegible]4[illegible],0	[illegible]7[illegible],9	[illegible]5[illegible],6	-[illegible]1[illegible],6	[illegible]6[illegible],1	[illegible]6[illegible],1				
	1187,5	-[illegible]5[illegible],9	-[illegible]1[illegible],8	[illegible]4[illegible],0	-[illegible]4[illegible],0	-[illegible]1[illegible],7	[illegible]2[illegible],6	-[illegible]5[illegible],1	-[illegible]3[illegible],1	[illegible]4[illegible],1				
	2375	-[illegible]8[illegible],4	[illegible]5[illegible],4	[illegible]4[illegible],2	-[illegible]4[illegible],2	-[illegible]1[illegible],6	-[illegible]7[illegible],4	[illegible]4[illegible],4	[illegible]4[illegible],4	[illegible]4[illegible],3				
SD3	0	-[illegible]4[illegible],0	-[illegible]9[illegible],7	[illegible]6[illegible],2	-[illegible]6[illegible],2	-[illegible]1[illegible],5	-[illegible]7[illegible],5	[illegible]4[illegible],5	[illegible]4[illegible],5	[illegible]4[illegible],5				
	2250	[illegible]6[illegible],4	[illegible]6[illegible],7	[illegible]7[illegible],6	-[illegible]7[illegible],6	[illegible]7[illegible],8	[illegible]4[illegible],8	[illegible]6[illegible],2	[illegible]3[illegible],2	[illegible]4[illegible],2				
	4500	-[illegible]8[illegible],2	-[illegible]5[illegible],3	[illegible]6[illegible],6	-[illegible]6[illegible],6	-[illegible]8[illegible],1	-[illegible]7[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2				
SD4	0	-[illegible]2[illegible],9	-[illegible]4,4	[illegible]3[illegible],6	-[illegible]3[illegible],6	-[illegible]1[illegible],6	[illegible]2[illegible],6	-[illegible]1[illegible],6	[illegible]6[illegible],1	[illegible]6[illegible],1				
	2250	[illegible]9[illegible],7	[illegible]3[illegible],6	[illegible]2[illegible],1	-[illegible]2[illegible],1	[illegible]6[illegible],7	[illegible]4[illegible],2	[illegible]5[illegible],6	[illegible]3[illegible],1	[illegible]4[illegible],1				
	4500	-[illegible]9[illegible],2	-[illegible]9[illegible],4	[illegible]4[illegible],1	-[illegible]4[illegible],1	-[illegible]1[illegible],1	[illegible]2[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1				
SD5	0	[illegible]6[illegible],2	-[illegible]6[illegible],2	[illegible]5[illegible],2	-[illegible]5[illegible],2	[illegible]1[illegible],2	[illegible]3[illegible],2	-[illegible]6[illegible],2	[illegible]6[illegible],1	[illegible]6[illegible],1				
	2187,5	[illegible]2[illegible],6	[illegible]6[illegible],6	-[illegible]6[illegible],1	[illegible]6[illegible],1	[illegible]6[illegible],5	[illegible]3[illegible],4	[illegible]6[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1				
	4375	-[illegible]3[illegible],2	-[illegible]2[illegible],4	-[illegible]3[illegible],2	[illegible]3[illegible],2	-[illegible]5[illegible],8	[illegible]4[illegible],3	-[illegible]3[illegible],6	-[illegible]3[illegible],6	[illegible]4[illegible],2				
SD6	176	-[illegible]2[illegible],2	[illegible]8[illegible],9	[illegible]5[illegible],6	-[illegible]5[illegible],6	-[illegible]4[illegible],4	[illegible]4[illegible],4	[illegible]4[illegible],4	[illegible]4[illegible],4	[illegible]4[illegible],4				
	2250	[illegible]6[illegible],6	[illegible]9[illegible],8	-[illegible]9[illegible],2	[illegible]9[illegible],2	[illegible]6[illegible],8	[illegible]5[illegible],6	[illegible]6[illegible],2	[illegible]3[illegible],4	[illegible]4[illegible],3				
	4376	-[illegible]7[illegible],8	-[illegible]4[illegible],5	-[illegible]3[illegible],8	[illegible]3[illegible],8	-[illegible]1[illegible],7	-[illegible]4[illegible],6	-[illegible]2[illegible],2	-[illegible]2[illegible],2	[illegible]4[illegible],2				
SD7	0	-[illegible]4[illegible],9	-[illegible]6[illegible],4	[illegible]2[illegible],9	-[illegible]2[illegible],9	-[illegible]1[illegible],6	[illegible]4[illegible],2	-[illegible]6[illegible],1	[illegible]6[illegible],1	[illegible]6[illegible],1				
	2187,5	[illegible]1[illegible],6	[illegible]2[illegible],9	[illegible]1[illegible],7	-[illegible]1[illegible],7	[illegible]1[illegible],9	[illegible]1[illegible],6	[illegible]4[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1				
	4375	-[illegible]2[illegible],2	-[illegible]2[illegible],8	[illegible]1[illegible],9	-[illegible]1[illegible],9	-[illegible]3[illegible],9	[illegible]3[illegible],2	-[illegible]3[illegible],2	-[illegible]3[illegible],2	[illegible]4[illegible],2				
SD8	0	-[illegible]6[illegible],6	[illegible]6[illegible],1	-[illegible]1[illegible],8	[illegible]1[illegible],8	[illegible]7[illegible],1	-[illegible]6[illegible],1	-[illegible]6[illegible],2	-[illegible]6[illegible],2	[illegible]4[illegible],2				
	2187,5	[illegible]2[illegible],4	-[illegible]3[illegible],6	[illegible]9[illegible],5	-[illegible]9[illegible],5	[illegible]1[illegible],7	[illegible]1[illegible],6	[illegible]4[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2				
	4375	-[illegible]3[illegible],3	-[illegible]2[illegible],6	[illegible]1[illegible],6	-[illegible]1[illegible],6	-[illegible]4[illegible],7	-[illegible]3[illegible],1	[illegible]4[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2				
SD9	125	-[illegible]2[illegible],6	-[illegible]5[illegible],4	[illegible]5[illegible],4	-[illegible]5[illegible],4	-[illegible]5[illegible],1	[illegible]1[illegible],5	-[illegible]1[illegible],5	[illegible]6[illegible],1	[illegible]7[illegible],4				
	2250	[illegible]4[illegible],7	[illegible]7[illegible],1	-[illegible]9[illegible],7	[illegible]9[illegible],7	[illegible]4[illegible],1	[illegible]5[illegible],7	[illegible]5[illegible],2	[illegible]4[illegible],2	[illegible]5[illegible],4				
	4375	-[illegible]2[illegible],5	-[illegible]2[illegible],1	[illegible]7[illegible],4	-[illegible]7[illegible],4	-[illegible]1[illegible],4	[illegible]3[illegible],6	-[illegible]2[illegible],7	-[illegible]2[illegible],7	[illegible]4[illegible],2				
SF1	0	20445031,6	10756207,1	-1052240,12	1052240,12	41744029,2	30627368,5	32727069,1	17463779,6	19047917,2	26006169,2	41744029,2		
	1082,5	4[illegible]044,27	2[illegible]79,91	-467477,85	467477,85	6291[illegible],46	2797009,47	2778714,53	23909,968	965369,729	23909,968	-64660291,6		
	2125	-2[illegible]9[illegible],5	-[illegible]894,88	117287,83	-117287,83	-4[illegible]27,7	-3[illegible]7,4	1[illegible]2[illegible],4	-[illegible]5[illegible],1	-2[illegible]481,2				
SF2	0	5526387,04	-[illegible]266,22	-259694,62	259694,62	5877495,66	4704[illegible],84	5135139,58	4749717,45	5186879,76				
	2250	13687[illegible],2	6[illegible]79,51	44[illegible],91	-44[illegible],91	25007156,3	1[illegible]4,2	1[illegible]5,4	1[illegible]273[illegible]	12193495,6				
	4500	-[illegible]4[illegible],9	-[illegible]6[illegible],5	[illegible]8[illegible],4	-[illegible]8[illegible],4	-[illegible]1[illegible],5	-[illegible]7[illegible],5	-[illegible]2[illegible],9	-[illegible]2[illegible],9	-[illegible]2[illegible],7				
SF3	0	[illegible]0[illegible],1	-[illegible]4,22	[illegible]1[illegible],1	[illegible]1[illegible],1	[illegible]3[illegible],5	[illegible]0[illegible],7	[illegible]0[illegible],4	[illegible]2[illegible],3	[illegible]3[illegible],2				
	2250	[illegible]6[illegible],4	[illegible]7[illegible],1	[illegible]9[illegible],4	-[illegible]9[illegible],4	[illegible]6[illegible],1	[illegible]5[illegible],4	[illegible]9[illegible],2	[illegible]3[illegible],4	[illegible]4[illegible],4				
	4500	-[illegible]9[illegible],1	-[illegible]2[illegible],2	[illegible]2[illegible],1	-[illegible]2[illegible],1	-[illegible]1[illegible],1	-[illegible]2[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1				
SF4	0	-[illegible]2[illegible],7	-[illegible]4[illegible],5	[illegible]3[illegible],5	-[illegible]3[illegible],5	-[illegible]2[illegible],6	[illegible]2[illegible],2	-[illegible]2[illegible],2	-[illegible]2[illegible],2	[illegible]4[illegible],2				
	1082,5	[illegible]2[illegible],4	[illegible]0[illegible],6	[illegible]1[illegible],9	-[illegible]1[illegible],9	[illegible]1[illegible],8	[illegible]1[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1	[illegible]4[illegible],1				
	2125	[illegible]8[illegible],4	[illegible]1[illegible],4	-[illegible]1[illegible],4	[illegible]1[illegible],4	[illegible]4[illegible],5	[illegible]2[illegible],4	[illegible]1[illegible],4	[illegible]4[illegible],4	[illegible]4[illegible],4				
6A1	0	[illegible]7[illegible],4	[illegible]2[illegible],4	[illegible]7[illegible],2	-[illegible]7[illegible],2	[illegible]1[illegible],4	[illegible]7[illegible],8	[illegible]1[illegible],4	[illegible]1[illegible],2	[illegible]3[illegible],2	[illegible]1[illegible],4	[illegible]2[illegible],4		
	875	-[illegible]6[illegible],6	-[illegible]2[illegible],8	[illegible]2[illegible],4	-[illegible]2[illegible],4	-[illegible]3[illegible],1	[illegible]2[illegible],4	-[illegible]3[illegible],4	[illegible]3[illegible],1	[illegible]4[illegible],2	-[illegible]1[illegible],4	-[illegible]2[illegible],4		
	1750	[illegible]3[illegible],7	[illegible]3[illegible],2	[illegible]6[illegible],4	-[illegible]6[illegible],4	-[illegible]4[illegible],2	[illegible]3[illegible],6	-[illegible]1[illegible],7	[illegible]3[illegible],2	-[illegible]9[illegible],3				
6A10	250	-[illegible]2[illegible],2	-[illegible]4[illegible],2	[illegible]3[illegible],6	-[illegible]3[illegible],6	[illegible]2[illegible],4	-[illegible]2[illegible],4	-[illegible]2[illegible],2	-[illegible]4[illegible],2	-[illegible]2[illegible],2				
	1625	[illegible]4[illegible],3	[illegible]4[illegible],3	[illegible]5[illegible],4	-[illegible]5[illegible],4	[illegible]3[illegible],4	[illegible]3[illegible],4	-[illegible]4[illegible],2	[illegible]3[illegible],2	[illegible]4[illegible],3				
	3000	[illegible]2[illegible],5	[illegible]5[illegible],4	[illegible]4[illegible],7	-[illegible]4[illegible],7	[illegible]2[illegible],6	[illegible]3[illegible],6	[illegible]1[illegible],5	[illegible]1[illegible],5	[illegible]4[illegible],4				
6A11	0	[illegible]4[illegible],7	[illegible]5[illegible],4	[illegible]7[illegible],9	-[illegible]7[illegible],9	[illegible]5[illegible],4	[illegible]9[illegible],1	[illegible]9[illegible],4	[illegible]7[illegible],3	[illegible]7[illegible],3				
	500	[illegible]3[illegible],6	[illegible]2[illegible],4	[illegible]2[illegible],1	-[illegible]2[illegible],1	[illegible]1[illegible],2	[illegible]1[illegible],4	[illegible]0[illegible],1	[illegible]0[illegible],7	[illegible]1[illegible],4				
	1000	[illegible]8[illegible],6	[illegible]3[illegible],4	[illegible]3[illegible],7	-[illegible]3[illegible],7	[illegible]1[illegible],8	[illegible]1[illegible],4	[illegible]1[illegible],4	[illegible]1[illegible],4	[illegible]1[illegible],4				
6A12	0	-[illegible]1[illegible],7	-[illegible]6[illegible],6	[illegible]2[illegible],4	-[illegible]2[illegible],4	-[illegible]2[illegible],4	[illegible]2[illegible],4	-[illegible]3[illegible],2	[illegible]2[illegible],4	[illegible]4[illegible],2				
	500	[illegible]2[illegible],4	[illegible]4[illegible],7	[illegible]6[illegible],2	-[illegible]6[illegible],2	[illegible]4[illegible],6	[illegible]4[illegible],6	[illegible]5[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2				
	1000	[illegible]6[illegible],7	[illegible]0[illegible],2	[illegible]6[illegible],1	-[illegible]6[illegible],1	[illegible]5[illegible],7	[illegible]5[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2				
6A13	250	-[illegible]7[illegible],1	-[illegible]5[illegible],6	[illegible]4[illegible],2	-[illegible]4[illegible],2	-[illegible]1[illegible],7	-[illegible]3[illegible],7	[illegible]4[illegible],2	[illegible]4[illegible],2	[illegible]4[illegible],2				
	1625	[illegible]2[illegible],2	[illegible]2[illegible],2	-[illegible]2[illegible],7	[illegible]2[illegible],7	[illegible]1[illegible],7	[illegible]1[illegible],7	-[illegible]3[illegible],1	[illegible]3[illegible],1	[illegible]4[illegible],2				
	3000	[illegible]9[illegible],1	[illegible]4[illegible],2	[illegible]5[illegible],4	-[illegible]5[illegible],4	[illegible]2[illegible],1	[illegible]4[illegible],1	[illegible]2[illegible],1	[illegible]2[illegible],1	[illegible]4[illegible],2				
6A14	250	-[illegible]1[illegible],4	-[illegible]4[illegible],5	-[illegible]7[illegible],1	[illegible]7[illegible],1	-[illegible]5[illegible],9	[illegible]1[illegible],4	-[illegible]2[illegible],7	-[illegible]2[illegible],4	[illegible]4[illegible],2				

	1925	-2509804.9	8600002.35	-24974121.6	24974121.6	1251411.61	-13998148.8	38489560.4	-1140455.5	3380380.2	
	3000	-2026569.2	2672421.26	-20449.08.1	-20449.2001	3260.9817	4356048.19	8010740.64	3478681.4	1990402.16	
6A15	0	72242469.2	81788644.3	25777481.8	25777481.8	5272070.01	73999306.7	19861894.2	52181946.8	6884479.95	
	550	-2340299.4	6178500.83	10502970.8	-10502969.8	2000716.7	9630851.4	7940191.67	3078192.2	1674620.31	
	1100	16291601.5	-1409999.6	4501519.94	4501519.94	-1475418.8	-1660012.9	7474186.81	1884982.2	-6164148.1	
6A16	0	62946910.4	10792308.6	28126698.1	28126698.1	4065.7097	14119970.2	19.6.0221.1	5235706.03	6770990.81	
	550	12151649.5	5040772.71	10927622.1	-10927622.1	2474615.6	3022.0991	7285540.51	2017523.6	1161436.71	
	1100	-1671264.21	-1526700.97	-4200990.06	4200990.06	-1.1.1.1.1	-1.1.1.1.1	5201679.15	-1.1.1.1.1	-6007447.05	
6A17	0	10991387.1	21274216.2	3061765.6	-3061765.6	1266.0.51	1791.2732	1060.0.94	1032.1457.1	6775.994.9	
	1000	14411.600	29615024.0	1500.78.8	-1500.78.8	2.1.1.1.1	2021.0.0.2	1991.0.350	1401.0.49	1136.7.99	
	2000	1832.5164	41094.68.0	-2020013.57	2020013.87	249421.10	1.9.5.49.60	3007.91.05	1.5.1.846.00	1.90.1.0.60	
6A18	0	70839.08.1	20941751.7	12767.99.6	-12767.99.6	1175.1.702	1.9.9.7.9.62	7.3.5.75.07.8	7.4.02.2.54	6.1.4.9.9.6.1	
	1000	1.9.0.0.9.32	29.1.7.0.0.5	-2.7.6.6.9.2	2.7.6.6.9.2	1.7.6.0.1.4.0	1.9.6.7.1.4.0	1.4.4.2.0.1.7.9	9.4.7.9.6.1.4.5	8.9.7.1.6.5.4.0	
	2000	1.2.0.7.8.7.4.7	3.0.1.7.9.5.6	1.9.7.0.9.5.5.9	-9.7.7.0.9.6.0.3	2.0.5.9.2.1.0.5	-1.1.1.4.4.0.3	1.7.9.7.1.2.6.6.1	9.4.1.0.7.0.0.1.3	1.0.1.1.4.9.7.4.2	
6A19	0	-1.6.0.5.6.1.0.4.1	5.1.0.3.5.6.6.1.1	3.9.4.6.2.4.0.5.6	-3.9.4.6.2.5.4.7.6	2.7.9.3.5.6.8.1.1	2.6.1.1.7.2.6.4.7	1.6.0.9.4.9.7.7.0	1.0.7.9.4.2.1.0	-1.2.5.6.7.9.6.4.4	
	2000	1.8.4.7.9.7.9.0.2	5.9.1.2.1.0.1.0.6	1.5.7.6.4.4.3.4.1	-1.8.7.3.8.4.4.0.3.1	-2.1.0.7.4.2.5.4.0	2.0.9.5.6.0.0.1.7.7	2.4.9.1.9.8.0.0.1	1.9.6.0.1.1.6.2.0	1.6.6.7.2.6.9.6.6	
	4000	1.2.8.4.0.6.4.3.2	2.0.6.5.1.1.0.4.7.1	3.8.1.6.7.8.5.0	3.8.1.6.7.8.6.0.1	2.1.7.4.1.0.6.6.4	1.1.0.2.7.3.6.7.1	2.1.5.4.0.2.9.9.6.6	5.1.2.7.2.3.0.6.5	1.4.0.8.5.4.5.9.1	
6A20	250	-1.3.6.9.3.6.6.0.4	-1.7.0.9.9.6.9.2	6.0.9.0.4.7.0.7	-3.6.0.0.4.3.7.8.7	2.0.3.9.2.9.5.6.1	6.7.4.9.1.4.4.0	-2.5.8.3.2.5.4.1	-4.6.6.0.7.1.2.0	-1.3.9.6.1.3.9.4.1	
	1125	-4.4.1.0.8.7.7.7	-1.2.6.9.3.7.1.0	6.9.9.8.2.5.1.6.1	-6.9.9.6.8.2.5.1.6.1	-4.6.6.6.6.9.1.6.3	-1.7.6.9.9.9.7.4	9.1.7.9.4.7.3.5.2	2.5.0.2.8.7.4.6.1	-9.9.6.8.3.1.6.7	
	2000	3.7.1.1.9.0.0.4.2	9.3.6.8.4.4.2.8	-1.1.9.1.2.1.4.4.5	-5.1.9.4.1.2.7.4.4.3	5.9.4.2.5.7.1.4.4	1.0.2.2.7.0.7.9.5	-4.7.4.4.7.1.6.6.8	9.0.1.2.9.0.3.4.7	-1.1.0.7.0.2.5.4	
6A30	0	1.5.7.9.7.6.6.5.0	4.7.7.6.9.8.7.7	4.0.0.6.9.2.5.5.1	4.0.0.6.9.8.3.5.5	2.6.0.5.6.4.0.3.5	2.4.9.5.6.5.0.3.7	1.8.6.4.4.0.4.4	1.7.4.4.0.1.7.5	1.0.2.5.7.6.6.4	
	2000	1.8.1.7.0.6.1.0.8	5.6.7.9.0.0.2.6.9	2.6.9.5.0.6.3.8.6	-2.6.9.5.0.0.1.9.8	2.0.5.3.1.4.9.9.0	2.4.9.8.0.0.4.6.4	2.4.1.2.0.8.5.0	1.9.5.4.5.3.1.0.7	1.9.0.7.6.1.9.9.2	
	4000	1.3.2.0.0.0.1.9.6	3.8.1.9.0.3.9.9.6	-2.4.8.7.8.6.9.9.1	2.4.8.7.8.6.9.9.1	3.1.0.4.9.5.6.6	1.1.8.9.8.6.0.6.8	3.1.2.1.3.4.7.9	2.7.4.1.1.6.0.4.2.1	1.5.1.0.4.3.4.0.3	
6A21	0	1.7.1.9.4.4.0.3.5	4.7.9.3.9.2.7.6	4.0.6.9.7.5.1.4	-4.0.6.9.7.5.1.4.0	2.2.2.2.6.7.3.5	2.1.9.2.7.6.3.7.5	1.2.0.0.2.3.7.9.1	1.4.8.6.7.1.9.7	7.2.6.1.1.9.8.2	
	2000	1.4.9.6.2.4.7.7.8	3.8.0.2.9.6.1.7.5	2.6.7.1.3.6.8.1.7	-2.6.7.1.3.6.8.1.7	2.7.0.6.1.1.6.6	1.1.0.1.4.1.2.2	2.0.8.4.1.4.7.6	1.3.7.1.6.6.6.3.3	1.3.2.6.2.8.9.7.4	
	4000	1.0.1.7.8.6.9.6.6	3.9.2.0.8.7.1.2.2	3.5.4.6.7.9.5.2	-3.5.4.6.7.9.5.2.1	3.9.7.0.7.7.6.8.4	1.6.8.9.0.0.6.6.8.4	1.8.1.1.5.5.6.8.3	6.8.9.0.6.1.2.2	1.2.5.1.7.2.4.0	
6A22	5	1.0.4.9.0.0.3.6.4	4.9.0.1.3.6.9.5	4.0.5.9.0.1.2.4.7.1	-4.0.5.9.0.1.2.4.0	2.4.0.2.9.0.2.6.4	2.3.0.1.4.6.7.8.6	1.5.9.1.0.5.6.2	1.6.7.3.0.7.2.1	8.4.9.1.6.0.7	
	2000	1.5.0.6.1.8.2.6.0	5.0.0.9.8.2.1.5	3.6.5.1.3.6.2.1	-3.6.5.1.3.6.2.1.0	2.6.0.4.1.4.4.8	2.1.0.4.6.4.0.0.4	2.1.9.0.7.1.4.4	1.2.8.6.8.3.5.6.1	1.0.7.9.2.5.1.0.2	
	4000	9.5.7.1.0.4.6.1.9	3.0.5.0.9.7.0.7	-3.9.1.8.6.5.0	3.9.1.8.6.5.0.0	1.7.6.0.1.2.6.6	9.8.0.2.3.0.1.7	1.7.9.6.3.9.5.0.2	6.8.0.0.4.4.1.7	1.2.1.6.7.6.3.7.2	
6A23	150	1.0.6.6.4.9.8.2	6.9.9.5.1.6.7.6.4	6.4.6.9.7.7.1.3.4	-6.4.6.9.7.5.1.3.4	2.9.1.6.5.1.9.7	6.5.7.9.9.1.9.4	-4.8.3.4.0.8.8.7.1	-6.7.9.2.6.0.7	-4.9.0.2.2.9.7	
	1450	5.4.9.0.8.5.1.0.6	1.1.1.3.4.0.1.6	1.9.0.3.0.6.6.0.2	-1.9.0.3.0.6.6.0.2	8.7.0.2.2.5.1.3	6.0.0.0.6.8.2.3	4.7.0.5.1.7.8.6.7	8.7.0.0.6.5.1.3.6	9.1.6.6.4.7.6.3	
	2750	5.8.6.6.1.3.6.5	1.9.6.7.3.0.2.5	-2.4.9.2.9.8.9.6.1	2.4.9.2.5.8.9.6.1	5.6.4.2.1.1.6.1.6	2.4.0.6.4.0.8.9.6	9.7.2.0.2.8.7.9.2	3.0.3.6.1.2.2.9	7.6.2.3.6.5.3.4.1	
6A24	150	1.0.4.6.0.0.8.4.9	6.9.8.7.0.2.0.6	5.5.4.5.6.2.3.9.3	-6.5.4.6.7.0.0.1	2.0.7.5.4.5.0.9.2	2.8.5.0.0.8.6.2	-5.1.1.2.7.4.4.0.6	6.8.0.8.1.0.7.3.0	-4.0.0.9.1.1.5.7	
	1450	5.4.7.7.0.0.2.5.3	1.1.1.5.3.0.1.4	2.0.2.4.0.9.9.5.4	-2.0.2.4.0.9.9.5.4	8.2.9.8.8.2.6.8.1	8.9.1.3.4.4.7.6	4.8.6.0.7.0.6.7.1	6.7.9.1.0.4.6.8.1	5.1.0.7.6.6.7.3.1	
	2750	6.9.9.0.4.2.0.3.4	1.0.0.2.1.0.8.0.2	-2.4.9.7.4.2.4.6	2.4.9.7.4.2.4.6	8.5.5.9.6.9.8.6	4.0.0.9.1.4.7.0.7	9.7.4.0.7.0.8.7.3	9.0.4.4.7.0.4.2.3	7.6.4.0.0.6.8.5.1	
6A25	250	-2.0.6.0.9.9.0.1.3	5.1.1.8.8.8.9.0.9	7.1.9.3.2.2.5.2.3	-7.1.9.3.2.2.5.2.0	2.4.4.5.7.8.1.8.0	4.4.4.5.7.8.4.7.3	1.0.8.4.7.8.5.0.1	4.0.7.3.6.6.2.2	2.4.3.0.0.9.7.8.7	
	1125	1.8.0.3.0.7.6.3.8	4.6.0.7.1.7.2	4.6.0.3.7.4.6.0.4	-4.6.0.3.7.4.6.2.4	2.9.1.0.0.2.4.0.2	7.0.6.0.5.1.4.5	-2.0.9.4.9.1.6.6	6.6.7.6.6.4.4.5.1	-2.4.3.0.3.7.9.7	
	2000	4.6.3.9.9.2.6.5.8	1.1.1.6.7.6.9.4	1.5.1.4.2.6.9.8.1	-1.5.1.4.2.6.0.0.1	7.3.4.7.8.7.2.6	7.8.2.7.8.4.7.5.3	4.0.1.7.8.6.6.9	5.6.6.8.7.7.6.8.3	2.5.4.3.0.6.4.7	
6A26	0	9.7.2.7.6.9.0.0.2	2.9.7.4.4.6.6.7.2	5.1.2.4.7.5.6.1	-5.1.2.4.7.5.6.5.1	1.1.9.2.3.6.9.6	4.6.8.2.5.7.7.4.5	9.4.6.6.3.2.6.9	8.5.1.6.1.7.6.9.1	1.6.6.0.8.1.3.2	
	375	3.2.5.5.9.9.6.2.5	9.0.0.4.1.5.2.6	5.4.1.8.7.9.6.8.9	-5.4.1.8.7.9.6.8.8	4.6.9.5.6.8.6.6	7.6.6.9.9.2.6.2.6	6.6.0.4.4.8.5.7.8	6.0.1.8.1.4.7.0	-1.0.7.9.2.3.7.7.6	
	1750	-1.7.6.7.5.4.2.1.4	5.9.3.2.0.4.6.0.9	6.3.2.6.1.6.9.1.4	-6.3.2.6.1.6.9.2.4	-2.8.9.2.2.0.6.1.7	4.2.7.6.7.8.6.9.4	-9.0.0.5.4.0.8.1	-3.8.1.9.6.1.2.1	-7.2.2.3.3.7.9.1.3	
6A27	0	1.5.2.7.9.0.8.7	4.1.2.0.6.6.8.3	-9.0.4.0.6.9.6.7	9.0.4.0.6.9.6.7	2.4.9.3.0.0.6.4	1.9.6.6.0.6.9.4	2.0.6.2.7.9.2.3.0	1.2.8.7.8.2.9.1.6	1.0.8.7.6.5.4.1	
	1000	1.2.4.7.1.2.9.0.3	2.8.9.0.6.6.5.2.5	-1.9.8.8.5.2.0.7.4	1.9.8.8.6.2.0.7.4	2.9.8.7.0.4.1.8.3	1.4.6.2.0.4.2.1.7	1.8.6.4.7.0.2.1.6	9.5.4.2.4.9.6.6	1.2.9.0.5.0.5.8.2	
	2000	9.1.8.7.9.0.4.3.2	2.8.4.7.6.8.7.9	-3.6.5.5.6.4.0.6	3.6.5.5.6.4.0.6	1.4.0.8.7.6.9.2.1	7.4.4.9.7.7.7.6.3	1.5.1.2.7.7.1.2.4	4.0.7.1.2.3.1.7.6	1.2.6.8.2.7.4.1.8	
6A28	0	1.2.4.1.0.2.9.9.4	1.1.6.1.9.7.3.7.9	-1.6.7.8.7.2.1.6.4	1.6.7.8.7.2.1.6.4	2.0.2.5.0.0.7.0.4	1.4.7.3.0.0.8.0.2	1.7.9.6.4.0.1.4.9	8.5.1.1.2.2.7.6	1.2.6.8.2.7.4.1.8	
	1000	1.0.0.7.9.2.6.7.5	3.0.2.8.9.2.2.0.9	-3.2.0.0.9.1.9.4	3.2.0.0.9.1.9.4	1.6.9.4.0.0.7.2.4	1.0.0.8.3.4.9.3.9	1.6.8.0.5.4.1.4.6	8.1.2.8.0.4.0.3.1	1.1.9.9.1.7.9.6.2	
	2000	8.2.6.7.9.5.6.8	2.7.5.0.0.1.4.0.9	-4.7.2.3.1.1.7.4	4.7.2.3.1.1.7.4	1.1.1.8.3.8.3.1.1	9.7.9.0.8.1.6.7	1.3.7.0.7.6.2.8.2	1.3.9.0.2.6.1.8.8	8.9.9.1.0.7.3.0	
6A29	0	6.1.0.3.6.2.9.0.4	1.8.9.1.1.8.4.4.3	2.9.7.5.4.9.2.1	-2.9.7.5.4.9.2.5.9	1.2.2.0.2.1.7.8	8.6.1.2.2.6.5.0.9	2.7.1.8.6.5.8.6.5	5.6.6.1.3.8.4.6	5.1.5.4.9.2.8.1	
	375	2.2.7.1.1.2.6.3.1	2.4.5.6.0.1.1.6.9	1.4.0.3.2.7.4.0.3	-1.4.0.3.2.7.4.0.3	4.6.6.9.0.6.3.6	1.3.4.6.1.7.9.3.7	2.9.9.3.0.2.0.3.2	5.6.7.7.0.9.8.4	-4.2.0.5.5.4.8.6.6	
	1750	-1.8.2.1.2.5.7.0.1	-9.6.4.2.0.9.6.2.7	6.4.0.9.0.2.3.7.1	-6.4.0.9.0.2.3.7.1	-2.6.0.8.2.4.3.3.6	4.3.7.8.4.7.7.5	-7.0.8.0.4.7.2.2.5	5.1.3.8.4.0.0.3	-7.4.0.7.5.2.6.5	
6A30	250	-1.6.7.4.7.8.9.4.6	-4.7.7.8.9.5.7.7	6.2.9.4.0.6.1.2.7	-6.2.9.4.0.6.1.2.7	-2.7.4.1.5.3.0.3.1	1.6.2.9.9.8.4.8.2	-2.8.6.1.6.1.6.6.9	-9.4.0.8.4.5.6.1.7	-2.0.7.3.7.7.4.8.6	
	1125	7.8.0.0.6.6.7.2	-2.7.6.1.2.0.6.6	4.6.3.7.6.6.2.4	-4.6.3.7.6.6.2.4.1	-1.2.6.8.7.9.0.0	-5.1.6.4.1.0.9.7.2	-3.9.8.0.0.1.8.5	-2.8.7.0.2.1.3.5	-1.1.1.0.1.9.0.1.1	
	2000	-1.6.3.0.1.6.9.1.2	9.9.2.1.3.7.1.7	2.9.7.3.4.0.9.7	-2.9.7.3.4.0.9.7.7	2.4.0.3.2.2.4.9	2.8.6.7.8.0.2.9	-1.0.7.7.1.4.8.7.4	2.6.7.6.4.7.6.4	-2.8.1.3.8.4.8.1	
6A31	250	-1.9.7.2.5.9.8.2.3	-9.6.2.0.9.5.6	7.5.4.6.7.0.7.6.4	-7.5.4.6.7.0.7.6.4	-2.5.2.2.0.1.9.4.4	5.7.9.0.2.8.0.3.6	-1.0.0.9.5.7.0.6.1	5.0.1.6.9.0.7.5.5	-8.5.6.8.4.9.5.4.6	
	1125	1.8.0.0.6.2.0.1	6.0.0.4.7.3.9.7	4.7.2.2.0.3.6.7.4	-4.7.2.2.0.3.6.7.5	2.0.8.7.4.9.3.6.5	7.4.0.2.0.6.9.0.0.3	-2.5.1.4.2.1.6.7.2	6.8.0.0.9.0.1.9	-2.0.2.9.2.7.4.0.1	
	2000	4.2.0.4.9.8.5.2.3	1.1.0.5.4.3.8.5.6	1.9.9.5.9.9.5.5.1	-1.9.9.5.9.9.5.5.1	8.9.9.5.6.4.4.3	1.5.0.2.9.0.1.2.5	3.5.2.6.0.7.1.9.1	5.6.1.9.8.2.4.3.7	2.1.0.2.8.9.2.4.9	
6A32	0	4.8.2.7.6.2.4.9.2	1.1.3.1.1.6.3.8	1.7.8.6.5.5.6.7.1	-1.7.8.6.5.5.6.7.1	7.2.3.4.1.4.4.7.1	1.7.9.5.7.2.1.5.6	4.0.3.5.0.2.4.7.1	5.7.7.2.7.8.6.6.2	2.5.5.9.9.6.8.3.4	
	1375	2.6.9.7.5.0.2.6.4	4.8.6.1.2.8.9.6.5	-2.4.9.5.0.6.5.6.8	2.4.6.5.0.6.5.6.8	4.0.1.4.8.4.5.5.1	7.0.3.4.6.0.9.7	6.8.8.0.1.4.1.2.2	2.0.0.2.0.2.0.8.4	4.6.4.0.3.5.5.6.7	
	2750	-3.5.4.4.0.9.6.2	6.2.6.0.0.2.7.8.2	-6.7.1.5.7.2.7.5	6.7.1.5.7.2.7.5	4.2.6.0.7.1.9.2.5	-1.1.3.7.6.7.2.1	2.7.2.5.2.9.6.1	-4.2.9.5.2.4.1.2.3	2.6.6.0.6.8.1.7	
6A33	0	6.5.0.1.3.7.6.9.3	2.9.5.6.3.4.3.6.6	5.2.3.1.5.6.1.6	-5.2.3.1.5.6.1.7.6	1.6.1.0.1.6.4.3	9.4.7.0.1.2.9.7	3.9.1.1.1.6.6.3	8.3.2.6.6.7.6.6	5.1.8.0.0.9.4.7.2	
	1375	1.3.9.7.7.3.1.7	2.3.9.1.6.4.9.2	-3.8.7.8.3.1.2	3.8.7.8.3.1.2	2.2.0.0.8.4.0.3	-2.4.0.7.3.2.4.4	4.8.5.7.9.2.2.6.8	-1.4.7.7.1.9.5.4	4.9.1.0.1.6.6.2	
	2750	-3.8.0.1.8.1.9.3	2.4.2.0.9.9.4.0.3	-6.1.9.9.5.2.8.5	6.1.9.9.5.2.9.8	-1.1.0.0.1.3.9.4.7	-1.9.6.6.1.2.9.4.1	-2.4.4.5.1.0.0.6.4	-1.4.0.7.7.9.5.1.6	-1.1.6.6.0.2.1.7	
6A34	0	1.2.8.0.9.6.6.6.3	3.9.9.1.1.6.1.5.9	-3.8.2.2.1.6.2.0	3.8.2.2.1.6.2.0	2.1.5.5.1.3.4.0.5	1.3.0.2.9.8.7.4.3	2.1.0.6.6.4.0.4.8	7.9.3.5.6.6.6.6.7	1.4.0.1.6.6.5.7.8	
	1375	-4.5.0.6.6.7.2.5	-1.6.2.5.9.4.1.5.6	6.3.8.2.6.4.7.4	6.3.8.2.6.4.7.4.0	3.2.9.0.6.5.4.4.6	-1.2.7.8.2.5.6.9.9.7	2.0.4.7.0.9.2.6.5	-4.8.7.2.6.4.4.0.1	-2.0.1.1.1.3.8.1	
	2750	-2.4.7.0.6.6.9.0.7	-7.8.2.1.5.2.0.3	-6.9.7.5.1.2.4.6	6.9.7.5.1.2.4.6	-4.1.9.1.2.1.1.0.1	-4.2.6.0.0.0.5.4.0	-2.3.7.8.2.0.1.0	-3.0.3.6.6.6.1.7.9	-1.4.2.1.1.5.9.2.3	
6A35	0	1.3.1.3.2.3.4.3.6	3.9.7.2.5.6.2.9.5	-3.9.6.9.8.1.6	3.9.6.9.8.1.5	2.2.1.1.4.6.9.1.9	1.3.6.7.4.5.7.6	2.1.2.2.3.2.1.9.6	9.8.6.0.7.1.1.2	1.4.9.7.6.0.0.8	
	1375	-2.6.5.6.8.9.3.2	-9.0.6.2.4.8.6.0.2.2	-6.2.3.9.4.3.6.9	6.2.3.9.4.3.6.9	-4.3.8.6.4.1.9.0.6	-9.9.8.5.3.3.6.2.7	2.0.9.4.3.7.9.9.4	-7.9.0.6.6.0.7.5.5	3.0.4.0.4.7.7.7.9	
	2750	-2.1.9.6.3.5.5.3.1	-5.6.6.7.1.4.4.9	-6.3.4.6.9.9.1.0	6.3.4.6.9.9.1.0.2	-3.6.1.2.7.7.0.1.6	-3.8.0.2.2.5.7.9.5	-1.9.2.3.9.8.8.7.4.1	-2.7.2.7.9.4.9.0.7	-1.1.1.7.4.9.1.0.2	
6A36	0	5.5.4.0.6.9.3.3.7	0.3.2.2.0.0.6.8.1	-7.4.5.9.0.8.3.4.4	2.4.5.9.6.6.3.8.4.4	8.2.6.0.4.4.1.1.6	4.0.2.9.3.7.9.1.6	8.3.9.4.7.1.5.2	2.7.8.5.0.4.4.6.5	7.2.9.7.6.0.4.9	
	1375	1.6.9.1.6.6.6.4.5	-1.3.0.9.8.4.5.1.9	-7.0.9.1.8.1.7.5	7.0.9.1.8.1.7.5.5	-4.1.2.5.7.4.0.6.5	-1.0.4.8.0.4.6.0.2	4.4.5.2.3.6.6.4.1	2.8.6.5.0.4.4.6.6	4.8.5.0.2.2.6.8.4	
	2750	1.3.3.4.8.3.4.6.6	-4.0.9.9.2.3.3.2	-1.1.7.2.1.9.6.1.9	1.1.7.2.1.9.6.1.8	-2.2.5.1.4.2.6.9.0.1	-5.0.2.7.3.6.6.0.9	-5.4.4.8.0.3.7.7.6	-2.2.6.7.6.8.4.0	-1.3.9.6.5.9.7.0	
6A37	0	5.7.2.1.1.3.5.6.8	6.0.2.2.6.6.7.7.1.1	2.4.6.2.7.8.0.3.2	2.4.6.2.7.8.0.3.2	8.3.6.5.9.9.8.6.6	4.3.0.2.1.5.2.3.0	9.4.7.5.1.5.9.9	2.9.0.1.6.1.9.0.3	7.3.0.0.4.2.4.4	
	1375	-1.6.6.7.7.4.7.2.3	-1.0.1.1.0.7.5.5.1	-7.1.4.2.5.8.0.7	7.1.4.2.5.8.0.7	-4.0.9.9.0.1.7.5.6	-1.0.4.9.9.8.1.3.9	4.5.0.9.6.1.1.8.3	-7.9.2.9.2.4.7.6.8	4.0.2.7.3.6.2.7	
	2750	-1.3.0.7.3.1.6.6.2	-4.0.4.1.5.6.9.0	-1.1.8.2.1.3.8.7.2	1.1.8.2.1.3.8.7.2	-2.2.5.1.4.2.6.9.0.1	-5.0.2.7.3.6.6.0.9	-5.4.4.8.0.3.7.7.6	-2.2.6.7.6.8.4.0	-1.3.9.6.5.9.7.0	
6A38	0	1.0.3.0.4.6.2.4.0	2.0.0.8.3.1.7.1.4	-9.4.1.9.3.1.9.6	9.4.1.9.3.1.9.6	1.6.7.7.9.4.9.7.2	1.0.9.6.0.4.9.6.6	1.9.0.8.7.1.6.6.0	6.0.0.1.2.7.6.4.3	1.2.5.1.4.4.4.9.0	
	1375	2.4.6.0.0.6.6.4.9	-8.0.1.2.6.7.4.9.2	-6.3.4.0.0.2.6.4	6.3.2.5.6.4.7.1	-4.2.8.2.1.3.0.5.6	-1.9.0.1.0.5.6.7.9	2.2.7.2.8.1.9.1.1	7.9.0.7.1.5.9.3.3	3.4.7.9.0.0.5.4.5	
	2750	-1.8.3.7.2.8.4.0.7	-6.6.2.0.0.3.6.0	-9.0.8.0.9.7.6.3	9.0.8.0.9.7.6.3	-3.2.6.4.4.0.3.0.0	-3.5.0.8.5.0.5.9.0	-1.6.0.1.6.0.2.0.9	-2.4.7.0.9.2.6.7.1	-8.3.6.5.0.1.6.6	
6A39	0	9.5.9.2.4.4.2.6.1	3.6.8.8.9.8.4.1	-3.9.9.6.0.3.8.6	3.9.4.6.8.9.9.8	1.7.8.9.3.0.6.6.9	9.6.4.5.4.4.7.7.3	1.9.0.3.7.9.6.0.3	6.0.9.8.4.4.6.5.1	1.2.0.2.9.9.4.6.0	
	1375	-4.8.2.8.0.9.8.4	-1.4.0.5.5.6.4.2	-6.3.4.0.0.2.6.4	6.5.6.0.0.2.6.4.3	-3.0.6.6.2.0.4.8.3	-1.0.4.1.4.9.2.4.9	5.6.6.0.2.6.8.0.2	1.0.3.2.5.7.1.2.0	1.8.4.8.7.0.5.2	
	2750	-2.2.0.5.2.4.9.8.0	7.9.9.4.0.7.8.9	-9.3.1.9.6.6.4.9	9.3.1.9.6.6.4.9	-2.9.6.9.9.9.8.8.6	-4.0.5.6.9.7.4.6.5	-2.1.0.9.8.4.6.0.5	-2.8.6.1.3.9.0.7.6	-1.1.7.3.6.5.4.0.9	
6A4	0	2.0.3.1.6.4.0.8	1.9.4.0.9.7.6.5.5	1.8.6.1.1.6.0.6.5	-1.8.6.1.1.4.0.6.5	2.6.6.2.4.0.9.5.1	4.2.1.4.0.6.0.0.7	2.0.5.6.3.6.5.9.9	2.6.0.3.4.0.5.6.3	1.6.3.0.6.4.3.6.0	
	375	6.1.5.9.1.8.9.9	5.8.1.9.6.0.5.5	4.6.1.2.6.3.4.2	-4.6.1.2.6.3.5.4.2	1.6.3.8.2.4.0.3.7	3.8.6.0.9.3.9.0.5	-4.7.2.6.9.6.9.3.2	6.2.0.6.7.1.4.5.7	-4.0.9.6.6.4.0.0.3	
	1750	2.7.0.9.4.5.1.6.7	-1.1.4.0.2.9.7.5.6	7.0.6.3.9.1.9.9.4	-7.0.6.3.9.1.9.9.4	3.4.9.7.7.8.9.6.5	4.7.4.1.6.0.0.3.6	1.0.7.2.2.5.9.6.5	4.1.3.9.0.2.1.2.8	-4.0.6.6.0.1.4.8.3	

6A40	0	86137709.6	2.327291.9	-48079993.7	48079993.7	115496.252	41214075.5	106662.260	164011042.9	100818328				
	1375	-63906673	-1870491.19	-70507027	70507027	-1849600.09	-16045940.1	-10.032.05_2	-121026944	6937704.1				
	2750	22412467.1	-59556.501	04194060	9479452.1	-1880.90616	-8207.8614	-3002.7183	-2966499.21	-117000665				
6A41	0	58407.494.3	1511.4301.1	1951561.61	-3951491.61	98092.553.1	9.96.63.76.3	74207032.7	96124.46.9	49010.01				
	1375	30625.50.24	11.48402.44	-42911.996	40911.996	01.38.796.70	-4070.1.67.6	48017.964	-34039.61.2	2.6039.91.6				
	2750	-08842.76	-29.50.607.1	6677.563	6677.563	-1609.9.703	-2.1.4.80.4.76	-29751.151.6	1842.1.67.5	-3810.402.7				
6A42	0	42.08665.4	1.1.7.6.618.1	1.0.13.112.3	-1.0.13.112.3	69.0.7.79	7.4.64.21.9.3	3.56.6.81.2	5.4.9.46.9.2	21.52.961				
	1375	2.2.2.7.65.41	7.0.41.62.48	2.9.9.6.64.2	2.9.9.6.64.2	1.0.4.3.9.1	-1.06.72.61.1	6.4.2.7.48.2	-1.06.7.46.63	4.9.6.72.5.7				
	2750	9.16.956.1	-2.6.3.6.6.0.75	-7.9.0.6.5.43	7.0.6.9.3.64	-9.4.1.4.5.6.27.2	1.1.7.4.1.1.7.0.1	2.0.3.1.9.4.0.21	9.0.0.7.7.6.7.7	2.9.6.2.6.6.7				
6A44	0	-48.00.0.66	-1.47.5.6.0.8.1.5	4.0.6.3.7.44	-4.0.6.3.7.44	-8.1.1.0.7.4.4.0.6	-8.4.2.0.3.6.2.8.2	-4.0.3.6.6.6.6.4.4	-4.3.1.5.6.0.0.2.7	-4.0.2.4.0.6.5.1.1				
	1125	-1.2.2.7.1.4.3.1.6	-4.5.4.9.6.0.6.2.5	-1.0.3.4.9.3.7.6	1.0.3.4.9.3.7.6	-2.2.0.0.4.9.3.1.4	-1.0.2.0.4.4.8.7.6	-1.7.0.4.4.1.1.2.6	-1.1.1.6.4.0.3.4	-1.0.9.2.4.1.6.5				
	2250	1.4.0.8.4.5.1.4.7	5.6.4.7.0.7.1.62	-2.1.5.6.1.9.96	2.1.5.6.1.9.96	2.9.0.2.7.7.6.2	1.8.7.1.2.2.6.5.1.1	2.1.4.4.0.0.2.7	1.2.7.2.0.9.8.6	1.2.0.4.2.1.6.5				
6A45	0	-787.7.4.4.7	1.1.6.0.9.8.7.1.5	-1.2.4.3.1.9.4	-1.2.4.3.1.9.4	-1.0.4.1.0.7.6.0.2	6.6.2.0.7.0.4.2.5	6.2.0.1.5.6.9.1.4	6.2.0.1.5.6.9.4.5	2.6.1.6.8.9.5.1				
	1000	0.6.9.2.6.0.7.2	-6.0.1.6.0.9.1.7	2.1.0.6.3.7.16	-2.1.0.6.3.7.16	2.4.0.6.9.3.9.4.1	1.8.5.1.9.5.6.0.16	2.0.7.7.4.4.1.0.3	2.4.2.0.0.7.6.1.1	2.0.4.4.1.0.9.1.9.1				
	2000	-4.0.0.1.0.2.8.7	1.2.3.1.0.0.1.9.5	4.8.6.7.44	-4.8.6.7.44	-9.8.6.1.6.6.4.7.8	-9.4.0.1.1.0.4.1.6	-5.4.1.7.2.1.8.0.2	-5.0.0.6.0.0.4.4.6	-3.8.6.4.6.6.0.7				
6A47	0	4.1.5.0.5.2.8.3.2	-2.2.0.2.4.0.8.9	3.5.0.1.7.4.1.1	-3.5.0.1.7.4.1.1	9.8.0.7.8.1.2.0.4	5.6.5.1.8.7.0.4.4	5.4.7.6.4.0.0.8.9	5.7.6.7.1.1.1.6	3.9.7.2.0.9.8.2				
	1000	7.2.1.5.0.8.5.1	-1.1.9.9.6.2.4.25	7.2.3.6.1.9.9	-7.2.3.6.1.9.9	-1.0.4.1.0.7.6.0.2	-1.0.0.2.1.6.0.6.1	-6.0.0.2.2.3.2.9.8.1	6.7.9.6.5.0.26	4.6.7.1.3.7.6.4				
	2000	-4.7.4.6.3.6.8.0	-1.4.6.3.1.4.5.8.2	6.4.0.6.5.7.1	6.4.0.6.5.7.1.72	-5.0.1.8.6.6.2.5.9	-4.2.6.6.9.4.8.1	4.0.7.6.7.0.0.4.1	-4.0.6.7.0.1.2.9	-4.2.7.4.7.3.6.1.1				
6A48	0	0.9.4.9.6.3.9.4	-1.2.6.9.4.6.5	9.6.6.6.6.7.2.1	-9.6.6.6.6.7.2.1	-6.7.6.7.4.2.1.1.0	6.0.2.4.7.4.7.9	4.0.6.3.6.6.0.5.4	-1.5.4.4.2.7.6.1.5	-6.8.6.9.6.7.9.1.0				
	1125	-4.9.1.6.7.5.0.41	-3.7.4.2.7.7.9.24	-6.1.0.0.7.74	8.2.0.0.7.74	-1.8.6.8.0.6.6.8.5	-1.2.9.6.0.4.1.5.1	-1.2.8.2.7.2.9.5.3	-8.0.7.6.7.0.7.04	-7.9.6.9.5.1.1				
	2250	1.0.8.2.4.0.4.7.1	5.3.0.5.9.9.5.56	-2.1.3.6.1.1.19	2.1.3.6.1.1.19	2.3.6.0.0.0.0.1	1.7.5.5.8.6.5.2.9	1.4.0.1.7.3.3.0.4.1	1.6.4.3.6.5.1.1	1.1.0.2.6.4.7.7				
6A49	250	-1.6.4.9.1.2.1.8.1	-4.7.2.4.0.4.6	9.0.0.4.4.0.4.1	9.0.0.4.4.0.4.1	-2.7.0.4.9.8.1.6.1	-1.2.2.4.6.6.1.6	-5.1.2.6.2.4.8.5.4	-6.7.1.4.7.3.0.0.6	-2.1.9.0.9.4.0.2.4				
	1625	1.0.9.2.0.7.6.4.3	7.2.1.6.0.5.1.42	6.4.2.2.0.7.0.4	-6.4.2.2.0.7.0.4	2.8.1.1.0.2.6.0	2.8.0.0.5.6.4.4.5.1	-4.8.2.0.0.4.6.1.1	7.0.4.3.2.2.1.2	-4.6.6.2.7.0.6.2.6				
	3000	1.8.1.4.0.7.2.10	6.2.1.0.6.6.9.8	9.6.4.0.2.5.6.8	-9.6.4.0.2.5.6.8	2.7.7.1.0.0.0.4	2.5.9.1.0.0.1.2	1.7.8.7.7.5.7.1	1.7.9.9.6.2.6.9.9	1.1.0.5.6.0.1.6.9				
6A5	250	-1.6.0.6.8.0.8.7	-4.6.2.4.9.4.4.1	5.0.3.5.0.4.7.3	-5.0.3.5.0.4.7.3	-1.6.6.4.5.4.1.2.8	-1.0.0.6.1.8.1.3	-3.0.6.6.6.2.0.7.8	-6.9.4.6.6.2.0.6.7	-2.2.6.1.7.0.3.0				
	1625	1.1.9.9.6.6.1.3.7	6.4.7.1.6.0.4.2.8	6.6.0.9.1.8.5.6.1	-6.6.0.9.1.8.5.6.1	-4.6.2.8.7.4.7.3	5.8.9.5.2.6.8.8.1	-4.6.7.4.0.9.9.3	5.6.8.9.7.2.2.4	-4.7.6.7.6.6.1.8.2				
	3000	1.5.0.4.0.3.4.3.2	6.4.4.4.9.7.5.1.1	9.9.6.2.0.3.4.7.8	-9.9.6.2.0.3.4.7.8	2.8.1.7.1.0.1.9.4	2.4.0.7.3.6.6.2.9	1.6.5.1.7.8.0.4.1	1.7.4.9.3.5.6.1.7	1.0.0.4.9.1.7.1				
6A6	250	-1.5.5.6.5.6.0.7	6.2.5.6.4.4.9.1	1.0.2.6.4.5.0.0.1	-1.0.2.6.4.5.0.0.1	7.2.0.7.2.1.1.0.9	1.1.2.1.5.5.4.4.6	1.0.0.3.9.5.9.5.8	1.4.9.7.8.6.3.9.9	9.2.0.6.2.3.0.1.4				
	1625	5.2.4.9.6.2.5.4	1.0.2.9.0.0.2.2	9.4.0.1.0.4.7.0.7	-9.4.0.1.0.4.7.0.7	4.0.0.8.6.7.4.5.1	1.0.4.4.8.1.7.6	-2.9.5.7.7.9.2.3.1	8.1.1.6.0.4.4.2.1	0.4.2.5.0.0.9.6				
	3000	2.9.5.0.6.0.7.1.2	1.2.0.9.7.7.1.5.6	2.8.9.7.2.8.6.1.6	-2.8.9.7.2.8.6.1.6	6.8.6.4.2.0.1.6	7.1.2.8.5.0.4.8	1.5.8.9.8.0.7.9.4	1.5.0.6.4.0.2.0.8	2.1.7.8.3.6.0.0.4				
6A8	250	-9.7.4.9.2.1.1	4.2.4.6.1.9.8.2.6.1	1.0.3.4.7.9.2.6	-1.0.3.4.7.9.2.6	6.8.4.8.9.2.6.5.5	1.1.2.6.1.4.8.1.0	-1.0.4.6.6.3.9.2.9	9.3.0.0.5.0.1.2.6	-9.3.1.6.3.7.9.8.6.1				
	1625	2.6.2.1.0.5.6.3.7	1.1.6.0.6.9.2.9	6.4.9.0.0.0.9.9.8	-6.4.9.0.0.0.9.9.8	4.3.1.4.6.6.1.3.6	1.0.6.1.6.6.6.9	-3.0.1.7.3.6.1.6.1	8.1.9.9.9.5.1.5.1	-3.4.1.2.0.5.6.4.6				
	3000	2.9.0.0.3.8.7.6.6	1.2.0.9.7.7.9.6	2.8.7.2.0.8.6.1.6	-2.8.7.2.0.8.6.1.6	6.8.6.4.2.0.1.6	7.1.2.8.5.0.4.8	1.5.8.9.8.0.7.9.4	1.5.0.6.4.0.2.0.8	2.1.7.8.3.6.0.0.4				
6A9	250	-1.3.0.9.6.6.6.7	-4.5.3.4.4.2.5	9.1.8.6.5.0.9.6	-9.1.8.6.5.0.9.6	-2.3.6.8.0.9.8.8	-9.1.1.8.7.4.9.4	2.0.2.0.8.6.4.9.5	-3.9.7.8.1.5.9.1.6	2.6.1.3.8.7.5.1				
	1625	9.1.9.7.4.6.9.55	8.6.6.2.0.0.1.46	8.6.1.0.4.0.4.0	-8.6.1.0.4.0.4.0.1	2.1.6.9.0.2.6.0.3	9.5.3.0.3.6.4.7.3	-5.0.4.5.6.6.6.7	8.7.7.1.6.2.9.7	-6.1.2.1.6.1.3.0.5				
	3000	1.2.3.2.8.8.1.2	4.8.8.6.9.0.5	4.0.3.4.5.9.1.7	-4.0.3.4.5.9.1.7	3.2.6.0.2.0.7.0.0	2.1.7.9.2.4.4.6	1.3.0.2.0.7.9.1.0	1.8.7.0.6.4.2.1.7	2.4.8.4.6.7.5.2.1				

6B1	1601	-1.0.6.4.5.0.0.0.4	-2.9.3.6.7.7.8.4	9.6.2.7.0.1.35	-9.6.2.7.0.1.35	-1.7.3.6.1.9.6.7.1	-1.2.9.6.1.9.6.7	-1.4.7.4.2.5.2.9.5	-1.9.7.2.9.1.0.3.0	-1.0.2.5.9.4.7.6.2	4.4.1.1.1.8.3.5.1	6.9.0.5.5.8.4.5		
	2250	1.0.5.9.6.0.4.1.5	4.3.6.8.1.7.1.10	9.4.6.6.0.1.46	-9.4.6.6.0.1.46	1.9.7.2.1.1.6.4	1.6.2.6.7.8.6.7.9	1.4.2.7.3.6.0.4.4.8	1.0.3.9.1.9.7.8.8	8.8.3.1.7.9.0.15	-2.9.9.9.9.2.8.8	-7.2.4.6.8.1.0.1.3		
	4350	6.1.6.0.1.1.6.22	9.5.3.5.1.09	1.0.4.5.0.1.6	-1.0.4.5.0.1.6	8.0.2.4.7.9.21	-6.2.6.7.3.6.48	8.4.8.7.3.9.2.78	-8.5.8.2.6.1.2.6	6.4.7.9.5.5.14				
6B10	225	-7.9.1.9.0.5.9	-4.6.8.6.7.6.5.07	-5.1.0.1.6.2.14	-5.1.0.1.6.2.14	-4.7.4.4.9.8.7.0	-4.7.9.0.7.9.4.2	-3.9.0.5.7.4.4.0.7	-7.2.2.4.0.6.0.1	-2.9.6.2.3.9.2.1				
	1237.5	2.9.4.1.6.1.1.93	2.9.4.1.5.5.5	-2.7.5.4.6.1.3	-2.7.5.4.6.1.3	1.2.0.4.0.6.3.1.1	-1.9.7.3.4.4.5.56	1.0.6.2.3.9.9.2.1	1.7.1.9.4.4.4.52	8.2.9.6.0.5.6.86				
	2250	3.0.9.2.9.5.9.0.2	3.4.7.8.2.8.0.17	4.4.0.7.4.0.47	4.4.0.7.4.0.47	4.2.6.0.0.8.7.6.5	2.5.0.0.0.0.7.2	3.6.2.2.9.2.7	2.2.9.4.8.0.5.4.8	2.5.0.3.0.3.8.7.6				
6B11	250	-1.1.9.4.7.9.6.6	1.0.4.2.1.1.07	-1.0.4.2.1.1.07	-3.4.0.9.9.4.74	3.4.0.9.9.4.74	-1.6.0.7.5.4.6.2.4	-1.0.9.3.8.4.7.6.3	-1.0.2.1.6.3.9.7.4.1	-1.1.9.6.1.7.1.1.0	-1.0.4.4.7.9.2.0.8			
	2262.5	1.9.3.0.5.4.0.6.2	1.4.8.1.7.0.1.67	2.6.3.2.9.1.12	-2.6.3.2.9.1.12	9.3.1.1.7.1.7.1	2.4.7.0.1.4.9.6.4	2.4.2.2.9.4.9.6	1.7.7.1.1.9.0.1.1	1.7.1.3.7.8.7.8.1				
	4275	-3.1.6.7.6.9.9.7.6	2.0.6.2.3.6.9.6	8.6.7.5.7.7	8.6.7.5.7.7	-4.9.4.1.9.2.0.6	-3.5.5.6.5.1.6.9	-3.7.3.3.8.4.2.7.6	-4.2.7.6.8.2.3.6.5	-2.9.1.9.9.8.4.7.1				
6B12	250	-1.0.2.6.3.2.6.1.8	-1.9.0.0.3.6.8.2	1.0.2.2.4.3.6	-1.0.2.2.4.3.6	-1.7.6.5.2.2.9.8	-1.4.9.7.6.8.1.2.9	-1.4.9.0.3.3.8.4.1	-1.1.9.1.6.2.3.2.6	-1.1.6.0.9.8.3.7.4				
	2262.5	2.0.9.5.2.1.9.0.6	4.4.0.7.6.8.0.6	2.8.6.5.0.7.1	-2.8.6.5.0.7.1	6.2.3.4.9.4.8.7.9	2.5.6.6.0.6.3.2.4	2.6.9.2.5.6.7.4.1	1.9.1.2.0.2.7.2.9	1.8.6.1.9.6.0.1				
	4275	-2.6.9.6.7.7.0.1.5	1.0.2.4.6.7.2.39	5.6.6.7.9.1.62	5.6.6.7.9.1.62	-3.7.3.6.7.4.5.6	-3.0.1.6.0.4.0.7	-3.2.2.0.1.2.0.5.1	-3.2.7.9.1.7.4.0.3	2.4.7.9.0.1.6.2				
6B13	225	-2.8.7.3.4.0.6.9.7	-9.8.0.7.6.6.1.63	5.7.9.5.6	-5.7.9.5.6	-4.1.5.3.6.4.2.3	3.4.0.3.6.9.1.7.2	-3.4.3.7.1.0.4.4	-2.5.6.6.6.4.0.2	-2.5.8.6.1.4.4.5.4				
	2250	1.7.0.2.1.6.6.9.3	3.1.2.0.7.4.7	-4.6.3.2.1.8.4.7	-4.6.3.2.1.8.4.7	2.5.7.9.8.6.6.7.3	2.0.6.8.1.9.4.1	2.1.6.3.4.7.0.9.8	1.6.1.7.2.5.3.4.2	1.6.0.0.6.0.2.7.4				
	4275	-1.6.7.0.2.5.6.7.1	2.0.4.8.5.6.9.6	-9.2.7.0.1.6.5.7	-9.2.7.0.1.6.5.7	-2.8.4.3.1.2.8.4.9	-2.4.0.5.1.4.3.9	-2.0.2.5.6.4.0.8.1	-1.9.5.6.6.1.8.1.7	-1.6.0.2.4.9.2.6.5				
6B14	275	-2.0.7.9.1.6.8.3.4	-4.1.2.9.3.6.24	-4.8.0.2.6.0.0.08	4.8.0.2.6.0.0.08	-3.6.2.9.9.6.2.1	-2.4.0.6.4.8.9.2	-2.4.1.2.0.1.6.6.5	-2.6.7.0.4.0.0.5	-1.7.0.8.0.2.2.9.6				
	1662.5	1.7.6.6.4.7.8.9.2	2.8.0.1.2.4.6.8	-2.3.9.4.4.3.6.3	2.3.9.4.4.3.6.3	2.5.7.1.0.4.2.6.5	2.0.3.6.1.9.1.4.1	2.1.4.0.4.7.4.5.8	1.5.6.8.2.8.1.1	1.6.1.1.3.6.9.6.5				
	3600	4.0.9.9.2.3.0.6.1	9.2.6.1.3.7.76	4.2.3.6.6.2.16	-4.2.3.6.6.2.16	5.7.6.0.9.9.6.7.1	1.0.0.3.4.2.8.7.1	9.6.4.5.1.7.1.97	9.8.5.0.6.9.7.36	6.8.2.3.1.104				
6B15	225	-2.0.0.1.9.8.7.2.7	-2.1.7.5.4.0.6.72	4.4.7.6.2.0.7.64	-4.4.7.6.2.0.7.64	2.7.8.8.4.0.2.5	-1.0.8.9.2.7.04	-2.6.0.0.8.7.35	-1.4.2.6.0.2.6.1.0	-2.2.3.1.5.8.8.9.3				
	812.5	-6.1.0.1.6.8.2.96	-2.3.0.7.1.8.58	8.4.4.2.3.0.7.42	8.4.4.2.3.0.7.42	-7.8.6.1.1.6.6.57	-2.9.6.4.3.8.9.83	-1.1.1.8.0.7.4.8.6	1.4.9.3.4.1.1	-9.4.3.6.6.1.8.36				
	1000	6.6.4.8.3.3.6.31	1.3.9.4.0.6.0.04	4.4.0.9.4.3.6.9	-4.4.0.9.4.3.6.9	6.7.1.2.4.8.2.44	1.1.6.6.9.0.9.8.1	2.4.0.9.2.7.0.62	8.9.6.1.9.9.4.99	1.0.2.5.0.9.6.57				
6B16	0	-5.2.8.9.9.9.9.54	-1.4.5.9.2.3.2.42	2.4.2.0.4.7.4.79	2.4.2.0.4.7.4.79	-1.0.6.2.0.2.1.1.3	-6.0.0.7.6.1.0.63	-1.1.0.9.0.5.8.7.7	-2.9.8.7.6.2.2.26	-8.3.2.4.2.0.6.89				
	1687.5	1.6.4.1.0.2.9.3.3	-2.3.0.8.7.4.63	-1.7.2.7.6.8.3	-1.7.2.7.6.8.3	2.4.8.0.7.2.6.4.1	2.0.1.1.5.7.8.0.4	2.0.4.4.8.9.6.4.1	1.4.6.1.2.7.7.7	1.4.9.2.4.7.61				
	3375	-1.0.3.0.3.1.1.7.3	-7.4.8.4.6.5.71	-2.7.6.6.0.1.86	-2.7.6.6.0.1.86	-1.7.1.4.8.6.3.61	-1.7.5.2.3.5.4.1	-1.1.7.8.2.7.1.8	-1.4.6.2.2.1.8.2	-9.4.0.3.9.4.72				
6B17	225	-3.2.5.1.8.6.71	-5.2.7.9.4.2.66	1.7.3.2.9.6.19	-1.7.3.2.9.6.19	-9.4.4.0.7.1.3.8	-3.7.3.4.1.0.7.4	-3.9.1.5.4.1.2.8	-2.7.0.0.9.6.5.5	-3.9.2.6.7.7.2.3				
	562.5	-1.8.2.6.7.4.9.5.8	-3.1.4.1.9.7.6.26	2.0.7.6.8.6.17	-2.0.7.6.8.6.17	-7.8.6.4.7.9.01	-1.9.9.6.7.0.4.1.2	-2.4.1.3.2.6.9.2.8	-1.4.6.9.4.7.7.8.4	-1.9.2.1.1.7.1.4.1				
	1000	-6.0.0.6.4.0.3.67	-1.2.0.5.1.6.39	2.4.2.4.4.0.8.3	-2.4.2.4.4.0.8.3	-9.1.3.1.4.7.6.41	4.9.2.6.9.5.7.02	-1.0.0.1.9.0.1.4.5	-1.0.2.3.8.7.0.74	-7.5.6.7.0.1.1.89				
6B18	225	-3.0.6.8.0.3.58	-5.4.6.2.1.4.9.3	1.8.1.5.6.0.7.47	-1.8.1.5.6.0.7.47	-4.9.1.9.8.9.1.2	-3.6.6.9.2.0.0.9	4.0.4.2.9.5.6.5	-2.8.6.7.4.9.6.5	-2.1.9.4.7.1.7.8.9				
	562.5	1.9.1.7.8.0.1.4.3	-3.2.7.5.6.0.7.86	2.1.5.2.2.4.2.84	-2.1.5.2.2.4.2.84	-2.8.2.6.5.2.2.9.5	-2.0.8.7.7.2.0.4.3	-2.5.4.9.1.2.1.4.9	-1.6.7.2.1.3.9.4.3	-1.8.1.9.6.4.5.1				
	1000	-6.6.5.7.8.4.7.42	-1.5.3.2.2.2.7.87	2.4.9.7.4.7.5.55	-2.4.9.7.4.7.5.55	-1.0.4.2.6.7.0.4.4	-5.8.4.2.2.7.0.25	-1.6.6.8.5.0.0.2.1	-2.0.7.6.4.0.9.87	-8.2.0.4.9.7.87				
6B19	0	-7.6.0.0.9.2.0.42	-1.6.0.7.7.4.2.61	2.4.3.2.8.1.7.49	2.4.3.2.8.1.7.49	-1.1.6.3.4.9.2.5	-6.9.4.6.8.2.4.75	-1.2.0.5.4.7.4.1.5	-4.8.6.1.2.9.2.84	-9.0.3.0.3.6.9.12				
	1687.5	1.6.7.5.1.8.9.6	3.3.6.6.2.8.0.17	2.1.0.6.6.0.9.3	2.1.0.6.6.0.9.3	2.5.4.7.5.5.0.1	2.0.5.4.1.8.6.8.0	2.0.9.9.4.2.4.0.3	1.4.8.9.7.1.1.1.5	1.4.2.0.6.0.0.1.2				
	3375	-1.1.8.4.7.7.0.4.2	-3.8.6.4.1.2.8.2	-2.8.6.4.1.0.9.5.0	2.6.5.4.1.3.9.5.3	-1.4.9.0.3.7.0.6.2	-1.6.9.0.3.9.8.5.1	-1.4.9.1.0.2.9.7.6.0	-1.0.2.2.1.6.6.9.4	-8.0.9.4.2.0.8.2				
6B2	150	-1.0.8.9.7.9.5.7.8	2.8.6.2.0.0.0.5.7	9.0.6.6.6.9.2	9.0.6.6.6.9.2	-1.7.8.4.0.7.5.0	-1.2.2.9.1.0.1.4	-1.5.0.4.6.8.0.0.6	-1.0.2.9.1.0.5.0.6	-1.0.8.3.7.1.6.5.6				
	2250	1.0.7.2.4.7.6.0.2	4.4.8.6.0.6.3.55	1.0.2.2.1.4.7.33	-1.0.2.2.1.4.7.33	2.0.0.4.7.9.1.7.9	1.6.5.7.3.6.7.5.5	1.4.4.2.7.0.7.8.1	1.0.5.7.2.2.3.4.2	6.7.3.3.5.8.9.5.7				
	4350	-5.5.4.0.2.9.5.03	-3.4.7.3.5.5.21	1.1.7.8.7.0.9.42	-1.1.7.8.7.0.9.42	-8.0.0.4.1.1.0.37	-5.3.8.0.4.0.5.06	-7.9.5.5.6.9.4.85	-2.9.2.6.4.1.8.95	-6.0.4.7.0.9.6.01				
6B20	125	4.3.8.0.1.3.0.76	-1.1.6.8.9.0.6.87	1.0.7.0.0.1.4.9.6	1.0.7.0.0.1.4.9.6	2.5.5.1.8.6.8.74	-7.6.3.9.8.8.7.83	1.4.8.0.6.7.4.6.1	-5.6.9.0.7.4.1.16	1.3.6.7.4.9.28				
	1250	5.1.8.1.0.1.9.19	8.3.6.9.9.7.02	-1.0.5.2.2.9.4.04	1.0.5.2.2.9.4.04	7.5.6.8.1.9.28	4.2.7.7.2.3.6.1	5.1.8.8.6.4.1.06	2.0.8.3.5.2.8.4	6.0.4.0.7.3.1.91				
	2275	-1.0.2.1.2.0.4.9.6	-4.0.8.3.3.4.3.69	6.6.7.8.0.2.2.26	-6.6.7.8.0.2.2.26	-2.9.0.8.7.6.0.9.3	-1.6.6.5.3.9.2.1.4	-2.0.1.0.8.9.0.2.2	-1.0.1.1.0.1.9.9.6	-2.2.6.7.1.6.0.7				
6B21	225	-1.2.9.9.6.6.25	-7.5.6.8.6.1.66	9.4.0.6.5.4.1.82	9.4.0.6.5.4.1.82	-1.5.7.9.0.9.1.2.0	-4.0.7.8.7.6.7.05	-2.4.3.1.9.6.0.6.9	9.1.3.9.2.7.4.26	-2.0.2.3.0.0.6.1				
	1250	6.8.1.5.8.7.6.36	2.1.2.1.1.7.8.13	-7.0.4.7.9.6.9.92	7.0.4.7.9.6.9.92	1.1.5.7.2.9.9.5.6	9.4.2.0.9.4.7.241	9.4.0.0.9.9.9.7.9	5.4.9.3.2.0.0.6	6.7.6.8.4.1.6.95				
	2275	2.2.6.6.6.9.0.87	-1.8.4.2.9.4.8.14	1.0.9.0.5.1.1.6.5	1.0.9.0.6.1.1.5.5	-1.1.5.6.9.4.38	-1.0.7.1.2.1.4.7.2	1.2.1.9.0.3.9.5.2	-7.8.3.6.5.8.9.47	1.1.9.4.6.4.0.4				
6D22	225	-1.6.1.0.0.1.0.2.4	-4.0.8.6.3.6.3.2	-1.4.9.4.0.4.6.51	1.4.9.4.0.4.6.51	-2.9.6.8.9.0.0.4.3	-2.5.2.7.0.2.2.0.2	-2.2.1.3.2.7.2.2.5	-1.7.6.3.7.4.0.4.5	-1.4.9.4.8.1.5.0.8				
	2250	1.9.8.0.2.2.1.1.9	6.0.2.4.7.0.6.93	6.9.5.6.2.8.17	-6.9.5.6.2.8.17	3.0.4.0.2.1.6.8.6	2.7.2.1.5.9.7.7	2.6.5.5.6.3.6.7.8	1.8.4.4.7.9.6.8.1	1.7.1.9.6.1.5.3				
	4275	-3.2.4.2.8.9.3.8	-3.9.6.4.7.0.4.14	2.8.9.5.1.0.2.84	-2.8.9.5.1.0.2.84	-5.4.0.5.6.2.6.2.0	3.0.8.5.6.1.7.3.2	1.6.0.2.3.9.8.2.1	2.8.6.8.9.4.5.1.6	-3.1.7.9.2.6.6.8.9				
6B23	225	-3.4.9.2.4.1.2.5	-3.9.4.7.8.1.0.56	6.3.4.3.6.8.56	-6.3.4.3.6.8.56	-6.7.2.6.4.5.1.7	-4.5.4.1.5.4.0.7.1	-4.8.7.4.7.8.2.3.1	-3.1.7.5.0.7.6.2.9	-3.2.9.0.7.6.6.2.1				
	2.0.0	2.0.2.1.7.5.6	6.4.6.1.4.5.1.25	1.4.1.7.0.4.08	-1.4.1.7.0.4.08	0.7.9.4.8.4.2.9	3.0.4.1.8.7.9.1	3.0.1.2.6.4.4.4	2.0.8.4.7.1.4.1.1	2.0.5.6.2.0.1.9.7				
	4275	-2.2.9.5.6.2.2.2.5	-4.7.2.9.7.0.9.4	-3.6.0.9.2.7.4.3	3.6.0.9.2.0.4.3	-5.6.3.1.5.0.9.8	-2.0.9.9.2.1.3.2.2	-2.5.2.5.5.1.9.9.3	-2.1.8.7.9.4.2.6.6	-2.1.2.4.4.7.7.1.9				
6B24	0	3.6.4.1.8.3.4.7	0.4.0.2.9.9.0.11	6.0.6.0.24	-6.0.6.0.24	5.0.9.9.4.8.0.6.4	4.4.0.2.4.6.0.6.1	4.4.0.1.2.0.7.4.6	3.2.7.8.1.9.6.6.6	3.2.7.7.1.0.6.9.1				

	1012,5	1813340,3	2079869,61	1866940,02	-1400048,08	24127689,4	21018256,1	1920625,2	76861401,6	15187795,1				
	3025	-9303796,2	-6362,15	2954090,95	-2954645,95	-46386259,7	-33114681,2	-3019816,4	-23744904,2	-29563338,7				
6BK8	225	-4660780	-8021484,05	3169226,19	-3169226,19	51674014,11	-50711012,1	-47737717,1	-39076700,1	-39066701,1				
	1237,5	1352421,5	2049242,25	-1556092,56	1556092,06	16913650,5	11345725,1	1910699,5	10660018,04	10887964,4				
	2250	36466726,9	6441018,48	22061,07	742061,07	54656584,8	34891875,7	4474647,6	3293716,9	32703011				
6BK36	250	-3612780	-1194231,5	780498,12	-780498,12	54656259,7	-52145464,2	-50485459,3	-35022850,6	-33499971,7				
	2262,5	20333974,7	5668766,25	-211401,81	211401,81	3328515,75	2035650,1	2854544	1009164,2	1860796,3				
	4275	-25974615,8	-7140736,81	3276,95	33735,05	1614019,7	-2866218,9	-3542740,6	-2107540,2	-21627295,7				
6BK27	250	-3916275	-1120351,5	1040643,5	-1040643,5	48266836,6	50662950,4	-61405209	-39000941,7	-34022660,4				
	2262,5	21992184	5595722,11	224340,9	-224340,9	4289737,8	2810067,5	2860844,8	1959109,1	19934875,1				
	4275	-21547658,6	-6011812,04	597665,73	-597665,73	30679984,5	34844050,4	9609367,4	-1886472,6	-19630072,9				
6BK28	225	-3804641,5	-8147468,75	3046710,25	-3046710,25	56651840	46370204,1	-4700942,7	-3078409,2	-29697029,9				
	2250	23650647	5118412,61	6,993,77	-6,993,77	37444455,6	29914782	3004314	2697992,4	20603163,2				
	4275	-23476162,2	-6102772,21	3221742,57	-3221742,57	37935931,7	37004260,5	2078919,3	-1822997,6	-24029114,4				
6BK39	225	-3137066,5	-8043217,16	5609906,06	-5609906,06	62845231,1	41504799,6	-4666270,6	-2750260,4	-29245644				
	2250	24375296,4	6436086,38	66503,55	-66503,55	39551242,5	31777260,6	3818723,1	2149461,9	21880913,5				
	4275	-25194570,8	-6606503,26	396793,29	-396793,29	37679090,2	-31179557,9	-3034627	-2031327,7	-23317099,6				
6BK3	150	717741,49	1254043,07	12097153,9	-12097153,9	3027756,67	14725169,9	1169797,4	116,0027,8	10041,903,2				
	1200	-7597362,51	205671,27	664272,01	-664272,01	9949750,98	6990965,67	-3094258,9	-2270731,45	-7420471,67				
	2250	-24143234,6	-3266866,99	-10766668	10766668	-54182863,6	-39736164	-11121117,1	-8141084,2	-12007181				
6BK30	225	-24476575,1	-8298170	-3234871,77	3234871,77	38447762,1	-35047709,9	-29254809,1	-24639402,2	-19115625				
	2250	19979307,2	5431239,46	242845,47	-242845,47	31540061,6	25051981,6	2486200,1	1729603,4	16851916,6				
	4275	-27704275,2	-9219937,29	-3726662,52	3726662,52	47908866,6	37998844,6	-4170837,6	-2158604,4	-26202359,9				
6BK31	225	-2599696,5	6943878,55	1840211,99	-1840211,99	41819947,6	31491059,4	2637218,3	-1106850,4	-24998618,1				
	2600	26693534	8104740,44	218631,99	-218631,99	4411485	35089892,2	3463660	3446594,4	20040366,6				
	4775	-27644710	10903670,6	-1410849,6	1410849,6	62619510	51819411,2	-4804917,1	-3516000,6	-32610,184,4				
6BK4	150	7211286,94	566225,23	11638716,1	-11638716,1	-9590704,89	4095284,01	7014605,2	3974650,85	-15994987,3				
	1200	-13108770,3	-2252875,07	-3046120	3046120	-19034520,1	-19134164,9	-12643002,8	-14577204	-8004167,97				
	2250	-22806494,1	-3440,024,64	-17820950,1	17820950,1	-33767872,8	-40476640	-6011644,7	-2664738,8	-4540109,6				
6BK5	150	-4788415,25	-79966,86	12992070,4	-12992070,4	8644053,71	8447597,61	-13604573,7	7004265,13	-15933600,3				
	1200	-18420121,8	-3791745,47	-6690477,56	6690477,56	-29182932,8	-29959828,8	-16009825,9	-12686539,4	-10666879,6				
	2250	-34890064	-7505292,96	-26282987,4	26282987,4	-65196707,1	-71449301,3	-17306027,7	-5602746,8	8764068,94				
6BK6	150	1047705,89	1699153,16	12621116,1	-12621116,1	3751892,12	5825864,9	1017983,3	12301941,6	-10419071				
	1200	-8190170,83	216719,71	541169,19	-541169,19	-9489450,45	-7818161,59	-9952606,85	-8875161,47	-7849206,01				
	2250	-25668816,2	-5599880,28	-11538779,7	11538779,7	-36510086,7	-42459261,6	-18227924,1	-13477035,4	-12708032				
6BK7	225	-1923652,5	-7240024,9	4102748,34	-4102748,34	24143992,9	-1617,9847,9	-2479041,9	-12718623,7	-2010570,6				
	612,5	-4784097	1260,41	3999261,07	-3999261,07	-5940138,64	-607427,269	9885875,12	-7985,61,853	-7805022,53				
	1000	6098096,2	1884844,47	3995774,09	-3995774,09	10013615,5	10095925,4	2904706,82	3994474,35	1902060,89				
6BK8	225	-23897072,6	-6370992,77	-4740690,13	4740690,13	-42470027,8	-39925078,2	-29964101,9	-30276034,6	-21709036,1				
	1862,5	16420401,6	2804625,18	-461814,69	461814,69	29955394,4	18970532,8	1931841,4	13474993,6	14287786,7				
	3600	5012008,8	1490665,83	6640670	-6640670	8171469,33	10677412,1	2507955,1	2875870,74	1061744,74				
6BK9	0	20929305,1	3481702,47	-440566,94	440566,94	42685896	33303394,4	36228693,6	27639473,3	28276875,8				
	1012,5	13074290,8	1771725,99	-376402,86	376402,86	18340920,7	14989239,7	15759760,8	11429078,9	12106659,8				
	2025	-24824780,2	-3014048,64	-312010,78	312010,78	-34612210,7	-29242219,5	-26866366,8	-22523,51,9	-22061222,5				
6BK11	150	-4837055,02	605614,52	656491,4	-656491,4	-4573094,79	-5001048,52	-3812510,63	-4956300,76	-3035416,25	12361592,3	22697775,7		
	675	-1717705,09	330712,59	-365215,14	365215,14	-1632141,88	-1664074,05	-1118122,56	-1386965,21	-1220287,96	-26866149,4	-16950,3865		
	1000	749266,51	-38189,29	-144938,84	144938,84	942816,776	602016,0693	907226,63	547494,8041	808384,4096				
6BK10	0	708202	1800,05	27022,05	-27022,05	988722,644	805186,3381	748440,001	688705,6446	640061,955				
	387,5	-3779402,17	-1396672,19	361728,94	-361728,94	-4854818,11	-3777289,61	-4536630,38	-3076840,61	-3727063				
	775	-8827758,12	-2211344,42	866435,79	-866435,79	-11231519,9	8918969,99	-10379485,1	-7218190,1	-8571774,62				
6BK11	0	-7789478,13	-2660775,76	888624,36	-888624,36	-10542015	-7774328,05	-8540409,19	-6010666,6	-7810682,23				
	600	-4215860,94	-1420587,81	361093,63	-361093,63	-5747973,62	4464011,16	-5202207,78	-3478240,58	-4110259,11				
	1000	-1624643,58	-302099,87	-186427,05	186427,05	2314132,09	-2083159,04	-1691661,23	-1540873,67	-1205286,88				
6BK13	0	-8205107,86	-900036,94	416865,79	-416865,79	-11282428,5	-8001874,67	-9807292,72	-7009417,85	-7759776,28				
	500	-4641768,41	-542128,68	69539,74	-69539,74	-6479116,3	-5214089,55	-5409116,7	-4030989,5	-4141165,64				
	1000	-1761906,04	-192920,81	-297792,3	297792,3	-2726004,02	2523979,47	-1948815,64	-1863701,12	-1217704,98				
6BK15	250	-6582179,3	-346020,58	19886764	-19886764	-7252249,09	13641764	-26018319,4	11972217,2	-22021140				
	1425	8522926,72	906700,61	1897762,19	-1897762,19	11678633	-11207810,4	7812389,82	9078620,42	5962640,08				
	2600	-9228150,61	-1143186,44	-3090229,6	3090229,6	-5700446,46	-20213480,8	-11775991,1	-7640474,2	10677871,1				
6BK14	150	-4601340,43	899190,78	-1548034,2	1548034,2	-8709812,54	-7468860,4	-5613478,21	-4444722,5	-5342263,45				
	1375	10710476,3	-1311062,02	939298,51	-939298,51	12361552,3	11839431,4	10078504,8	10460287,3	9889370				
	2600	4011802,62	207396,73	13227139,6	-13227139,6	6605997,92	18611879,3	-9185110,95	15765048	-8023803,31				
6BK15	250	-4886748,5	-1736920,8	6946449,26	-6946449,26	99639719,7	-6012,5044	-7561336,9	-5629920,8	-5202,5842,6				
	1500	-14694644	-5062962,15	2596126,11	-2596126,11	-25734312,2	-17469992	22936767,9	-10989666,1	16666793,1				
	2750	1945388,39	480707,11	-756195,74	756195,74	3103647,44	-1702920,5	3290901,55	1070273,09	2401425,73				
6BK16	250	-4854,4011	-3512,0362	1214096,46	-1214096,46	1748017,46	1355,4607	-1736847,6	-1756997,4	-1755,5,4				
	1500	-3850969,2	-13440790,3	917950,92	-917950,92	-67716774,8	-52172766,8	-7441,0470	-3382,2474,3	-3846479,3				
	2750	2962014,52	1016420,76	621806,41	-621806,41	5180995,44	4723584,53	2417736,87	3225440,66	2106186,61				
6BK17	250	8461,1048	-32211,029	4902360,34	-4902360,34	-151112,544	114228650	124014,607	-71707,890,2	-80387,38,2				
	1500	-92927795	-12198702,2	2036660,7	-2036660,7	-58211,261,7	-40018570,8	-47926554,2	-26092110,9	31197925,6				
	2750	1322943,85	621845,11	-129676,57	129676,57	2422484,8	1740075,01	2018394,02	1073941,19	1307357,75				
6BK18	150	13882096,3	-3107608,39	-16824931,1	16824931,1	-21632246	-24100403,7	688078,389	-26777464,7	1747061,92				
	1025	10316024,9	-3776989,07	116232,76	-116232,76	-18427080,6	-14279017,6	14523106,3	9179812,93	9089031,89				
	2500	-23549308,1	-11219922,9	15057396,1	-15057396,1	-46211044	15489352,6	-52189584,5	-6742716,99	-25646902				
6BK19	150	-3666776,62	-1005833,87	-407071,08	407071,08	-6056268,14	5256353,41	-4400500,51	3666560,2	-2902894,72				
	1325	1767736,29	476230,92	144129,87	-144129,87	2683260,58	2154829,12	1457501,86	1451344,97	1720678,73				
	2600	-3636540,15	-1036429,44	116611,63	-116611,63	-6060966,69	-5017096,29	-5266900,61	-3167846,37	-3301709,3				
6BK2	150	-6642570,87	272760,52	-1022061,45	1022061,45	-7414868,21	-7655420,28	-5636461,19	-5808439,1	-4668188,47				
	575	2688740,28	107139,17	-393729,24	393729,24	-3055065,66	-3439946,48	-2604016,06	-2035222,57	-1804609,94				
	1000	526761,25	-58492,17	-345097,05	345097,05	5036542,18	1356481,875	860165,68	183497,879	784672,569				
6BK20	0	-2083254,75	25974,97	198087,04	-198087,04	-2468946,92	-1954249,29	-2371480,27	-1886110,41	-2063748,16				
	1375	1289254,44	226344,18	52142,01	-52142,01	2019655,92	1087566,52	1578068,9	1207256,81	1113401,19				
	2750	-2019704,25	664710,61	-94403,63	94403,63	-1520103,6	-1886159,02	-1487911,39	-1907097,1	-1732770,57				
6BK21	150	-3869018,79	-1036809,6	-420030,52	420030,52	-6064877,91	-5287091,35	-4035317,25	-3674744,38	-2918689,44				
	1325	1756348,22	470765,02	-171849,38	171849,38	2864425,9	2111737,28	2472620,97	1428748,86	1738077,04				



6CY9	0	-29152220,9	-12514866	197686,93	-357796,93	66006691,6	-41601184	-40142746,6	-25549900,5	26928097			
	7000	14900884,9	7091023,41	265362,17	-264082,17	23204499,3	23533255	22076004,8	12066112,3	10177466,5			
	5060	-18092140,5	-8719960,24	-7211018,58	237162,58	-9566109,7	-27465293,1	-26867241,4	-16445872,9	-16604460			
6CZ	0	14994456,3	-2553396,29	-2551967,52	2551967,52	-21315004,5	-21105764,6	-16746112,6	-13511961,3	-12250420,4			
	2240	1070150,85	-660900,94	-470161,92	470161,92	386742,912	1687279,05	99940,5897	1266273,6	439993,124			
	4600	6197716,06	1461603,29	3002290,1	-3002290,1	9776750,64	11256202,7	4421303,47	8600805,54	2655830,06			
6D4	0	11305816,3	4390705,27	5487167,85	-5487167,85	7031180,91	21559514,9	10046122,4	15170298	5293056,81			
	2240	1944997,33	-77485,23	210022,79	-210022,79	22160,16,67	2299796,54	1648748,69	2130415,11	1481677,89			
	4500	-19206772,8	-8351117,9	-4667321,99	4667321,99	90078812	-21480812,8	-19272036,6	-21836785,3	-13076605,7			
6D5	0	-28608128,2	-10113066	-542559,4	542559,41	-50572257,8	-40211884,2	-39072317,9	-26362816,2	-24206811,4			
	2240	14097670,7	7978469,41	221358,96	-221358,96	31042071,5	22888026,7	22424172,9	18135589,4	12758145,2			
	4500	-14774142,1	-8731667,17	965373,35	-965373,35	20869538	-23779737,3	-26043511,8	-11309382	15017472,1			
6D6	0	42547017,6	9958511,05	-2779640,81	2779640,81	12760870,2	40660956,5	51500704,2	36044454,5	29543658			
	1125	8740907,76	1604460,62	-249990,18	249990,18	10107958,2	10513508,2	11002268,5	7647234,841	6941799,13			
	2250	-402561,81	-10626196	-218315,49	218315,49	-6514211,5	-7549191,1	5108691,1	-3542162,4)	-6622867,4			
6D7	0	37051044	-9195075,49	-274470,57	274470,57	-9317270,6	47981461,6	-4710508,4	-31693233,1	-13099136,1			
	1125	10342660,1	2351866,71	-279426,65	279426,65	16176246,8	12749833,6	13275699,6	9656811,09	9459779,16			
	2250	42647778,2	6961960,21	-292182,76	292182,76	6216470,1	50957717,6	51550721,4	38030856,9	36547144,8			
6D8	0	-31050012,5	14832343,4	853104,42	-853104,42	-5123764,4)	-45766258	-37456927,3	-27270213,1	-26749206,2			
	2250	10182344,8	7263478,2	37804,18	-37804,18	27449878,3	20743148,4	20660649,5	11860224,1	11811896,6			
	4500	-16781715,1	-5419411,45	-777296,07	777296,07	-27519516,5	-22517860,6	-20998508,8	-14610110,1	-10410977,1			
6D9	0	29630564,4	-14836150,1	926040,85	-926040,85	-6423457,4)	-44107093,2	-46052415,6	-25788798,4	-27466217,5			
	2250	15321268,9	7257311,45	93629,89	-93629,89	20567121,3	23526800,1	23410180,4	14837408,8	14168376,1			
	4500	-11993315,6	-5466938,74	-819084,13	819084,13	73127084,7	-19886776,6	-18998700,1	-11522159,2	-10047008,3			

6CY1	0	-7646268,6	-2256641,64	-410907,16	410907,16	-2254936,94	5694650,4	-7730447,06	-7165248,19	6418216,3	22216947,9	17304841,9	
	3400	6931215,26	-1522096,56	-484682,01	484682,01	7897660,03	6510970,14	7538782,76	5801379,93	6674307,54	-42503241,6	-65015760,9	
	7000	-7463306,93	-386077,47	-565468,82	565468,82	-9372692,03	8862636,2	-7486075,68	-7207887,42	6008065,14			
6CY10	0	-4838099,19	-707998,01	-8670237,57	8670237,57	8696769,4	-14643033,1	3564465,73	-21977692	3628735,58			
	2387,5	12278197,2	251477,94	4526942,57	-4526942,57	78702601	77976769,2	6170479,62	5512165,3	6972519,16			
	4775	-17169264,7	1210864,67	17723922,1	-17723922,1	-19853580,3	1737242,35	-36492994,1	508191,569	-21394860,1			
6CY11	0	-4858427,8	733454,86	8795091	-8795091	-6751361,14	-14517300,9	3552390,17	12106430,9	3724742,88			
	2387,5	12284445,4	253941,64	4555162,98	-4555162,98	15122041,2	17899618,7	8033775,43	15137647,5	5938054,21			
	4775	-17162591,8	1209368,14	17905417	-17905417	-19812120,9	1951109,62	-34650208,1	668542,8241	-21561207,7			
6CY12	0	-982015,95	1060954,61	16007768,1	-16007768,1	72794109,24	17204541,5	-16161671,1	13973176,9	-14660905,6			
	3375	3647311,41	100884,01	1259680,05	-1259680,05	4074393,28	2028412,59	4073741,69	2148308,22	4416292,31			
	4750	-5612672	-1419942,55	-18427129,1	18427129,1	-5037614,49	-26601651,9	12895079,2	-21516021	11533011,4			
6CY13	0	-19516824,9	-4880772,21	600604,88	-600604,88	-23000205,4	-19189459,3	-20618739,5	-16064385	-17279868,6			
	375	3666921,3	-635741,25	-1399160,67	1399160,67	-4300241,7	-3401667,7	3665943,6	-3343635,2	-3084304,7			
	750	-5013091,6	-1265410,3	-3478925,95	3478925,95	-5911750,5	-5015542,6	-5299779,1	-5093914,2	-4704787,4			
6CY14	0	-21467119,3	-4961324,42	539804,92	-539804,92	-26400660,4	-21435395,7	-23537447,7	-16855546,5	-16805448,3			
	3400	28276976,1	-4476228,66	667527,52	-667527,52	30215043,5	29853613,3	29672006,5	25552240,1	24937693,7			
	7000	-21588371,6	-4356877,91	648020,72	-648020,72	-26601468,6	-22401468	-23703521,6	-18890335,6	-19380402,1			
6CY15	250	-5299768,3	-817403,19	-3561615,36	3561615,36	-6490761,15	-5015925	-6286250,2	-5396245	-4404337,4			
	625	-2662966,3	-661450,97	-1481842,49	1481842,49	-3170581,2	-2647634,4	-3140884,5	-2693384,9	-2067012,6			
	1000	-19410668,7	-4805490,76	639030,59	-639030,59	-22901587,1	-19136840,6	-20479137,3	-16095104	-17144069,7			
6CY2	0	-11000646,37	630152,06	12747272,2	-12747272,2	231411,164	12803566,8	-13966714,7	10603054,1	-12643035,8			
	707,11	-2660504,3	206411,7	5011838,7	-5011838,7	-3376947,04	3721789,86	5930071,62	5099208,61	-8729109,16			
	1414,2	7039480,93	-226328,8	-723695,32	723695,32	-9040382,42	-8576977,74	-7057027,57	7185851,33	-5863361,75			
6CY3	225	-6944017,91	-5011564,82	-7774442,81	7774442,81	-9135853,2	-16629866,6	-387671,29	13249884,5	747112,41			
	612,5	9448685,12	-2113878,07	4091208,89	-4091208,89	1467813,85	-5483711,5	3107827,07	-4528704,61	2835471,39			
	1000	4700179,37	37762,57	-807974,48	807974,48	5775402,62	-4580779,21	5446025,82	3271084,5	4026428,47			
6CY4	0	4880243,67	903859,25	-356446,06	356446,06	5722688,15	4597186,1	5340620,72	3974948,75	4514749,86			
	387,5	-967011,34	-219717,64	-4136070,54	4136070,54	-1499960,87	-6666388,66	3130379,66	-4629373,69	2961153,29			
	775	-6926704,47	-510293,98	-7916696,1	7916696,1	-9148951,57	-16079379,8	546681,995	-13360887,5	909185,467			
6CY5	0	-1205418,09	855291,87	12924583,2	-12924583,2	-1665934,76	3360374,1	14133250,5	10457296,5	12907001,1			
	707,11	-3645726,18	307956,87	6040029,52	-6040029,52	-3852140,42	2805036,8	-9879023,3	2154872,2	-8717179,32			
	1414,2	-7164004,2	-239378,09	-844526,52	844526,52	-8979845,93	-8635201,05	-6951695,36	-7207704,66	6987666,91			
6CY6	0	1111152,1	607200,73	-8179276,58	8179276,58	361766,963	-7995391,15	8181099,67	-8381112,06	8051305,81			
	387,5	170299,23	-10322,72	-1729393,4	1729393,4	11830,724	-1760764,35	1180961,79	-1403193,75	1709714,37			
	775	-1124341,67	596814,26	4720490,09	-4720490,09	-7602027,139	4122490,82	5798082,87	2986669,68	5270549,69			
6CY7	225	-26948703,3	-2644178,35	356446,5	-356446,5	-22161357,5	-17516172,4	-23811070,3	-17486591,1	-24052274,9			
	2500	17286760,4	-269725,89	237481,57	-237481,57	29311039	13144682,7	17645791,2	15770900,9	15043441,8			
	6775	-26239947,7	276130,86	149016,96	-149016,96	-31020029,6	-27866476	-27968201,4	-23481037,8	-21749863,1			
6CY8	225	-1161240,67	362405,03	4564408,62	-4564408,62	-7815516,036	4260727,69	-5666626,23	3003669,9	-5642472,93			
	612,5	151178,15	-131397,74	-1768087,67	1768087,67	-12869,028	-1749035,93	1807777,97	-1401536,3	1673662,33			
	1000	1109924,27	-525270,5	-6292761,77	6292761,77	2012568,024	-6715599	6222705,2	6451121,75	6452305,44			
6CZ9	250	-5587349,55	-1390070,76	-13120226,9	13120226,9	-6883412,04	-26171154,1	11811029,2	-21314317,9	11702068,7			
	2625	3673787,44	-175187,02	-1211369,92	1211369,92	4182231,7	24100865,68	4963842,49	2216167,77	4398623,82			
	5000	-379428,05	1019008,48	15697496,5	-15697496,5	1192582,79	17057310	-16907411,7	13786254,3	-14459221,2			

6D1	0	307900,17	780782,74	-307802,89	307802,89	1856702,19	724742,378	1060191,45	4680,653	640869,754	28829782,3	7042097,14	
	500	497035,35	494447,46	42256,55	-42256,55	1315918,34	970924,035	862085,58	431832,71	355570,92	-11156156,7	-56746106,3	
	1000	-22229,46	228131,17	387346,96	-387346,96	938304,42	698956,211	-214479,305	526604,823	-366617,905			
6D10	0	56492,22	27975,76	247367,29	-247367,29	506151,86	602949,079	-46501,2303	363464,566	-201778,693			
	500	-949044,25	26964,63	793804,42	-793804,42	-1095677,69	-200501,046	-1741490,63	-193715,947	-151466,8			
	1000	-2543580,69	-220006,46	1120261,47	-1120251,47	-3434307,04	-1702401,68	-4054926,77	-1250996,21	-2297448,85			
6D11	0	2178450,46	916568,05	2528284,11	-2528284,11	-2077204,25	5843990,86	-4624608,71	5144803,484	-4236014,2			
	1250	-4366870,36	-421631,74	1724071,83	-1724071,83	-5913855,24	-3172350,47	6792881,31	-2377618,7	-5480947,99			
	2500	-10234609,5	-1178929,63	919911,63	-919911,63	-14167574,5	-10894352,2	-12828167,8	-8383186,09	-10039006			
6D12	0	-4807984,62	-714909,6	4181586,8	-4181586,8	8913275,14	-10114460	-1393295,74	-3890542,29	-5628939,035			
	1250	-4798977,82	-1219147,68	-1239088,27	1239088,27	-7894209,45	-7490001,74	-4078740,38	-5422919,3	-3192560,42			
	2500	-9446020,08	-1723486,94	1703036,12	-1703036,12	-13092890,2	-9708519,6	-12286512,8	-8068420,95	-9134416,16			
6D13	0	-8026037,46	-1436735,18	-5663473,93	5663473,93	-8990021,24	-13957701,7	-2032406,46	-10888660,3	-678307,177			
	1250	-6013885,64	-1668971,72	-2306324,78	2306324,78	-9917060,41	-10331427,6	-5480145,57	-7468171,29	-3336795,59			
	2500	-9382942,86	-1939468,38	1076824,52	-1076824,52	-14362584,6	-10560466,2	-12819198,7	-7480906,51	-9408390,64			

6D15	0	-2017017,67	4,29981,13	2697407,79	-2697407,79	-13758611,23	11296,00,67	-4600742,61	612109,17	424,006,8			
	1250	-4441706,01	399862,3	1036824,07	-1636824,07	-4021279,04	-3084246,2	-6941575,75	-2044034,08	-5650317,41			
	2500	1004669,6	-1179745,69	976700,48	-976180,48	-1454044,61	-11161742	-10217221	-9810027,71	-10370402,6			
6D13	0	-2204729,04	-5600346,42	1061791,39	-2351701,39	-25399845,63	-9115091,04	-4470127,43	105445,965	4127990,11			
	1000	-9560196,84	-6637377,48	3441073,25	-1641073,25	-5104386,04	-846662,862	-9095655,44	-16124,616	6392488,65			
	2000	7241660,21	-7619604,47	4700076,14	-4700076,15	-9909,603,4	-2054303,41	-1125,0000,2	-1267084,66	-10777,452,2			
6D16	0	-2451126,59	-3110071,53	2054,047,85	-2068747,85	-4261057,64	1179581,76	-5012411,35	-353561,748	-4076517,9			
	1000	-6441517,44	-6614193,33	3610622,56	-1622622,56	-5145299,65	-666761,441	-8166493,82	601191,6089	-6448022			
	2000	-8982246,93	-5551447,03	5172597,25	-3172097,25	-5265121,65	-2425421,15	-13288566,4	-1629014,71	-10940126,8			
6D17	0	1034169,04	-1,0,0140,8	5283896,03	-5283896,03	180,0840,03	4103569,03	5901512,58	-2037768,89	5877244,15			
	1500	2000601,21	-1142041,103	1895607,69	-1495407,69	2163095,64	-4746,640,05	3954609,45	1111,44,195	3500427,06			
	3000	-1207746,66	870,,7,041	1513,090,41	-1511090,41	2966409,4	-1471974,46	-4648,940,11	-1744,40,1,6	-1469127,05			
6D18	0	559777,42	217264,14	-6492248,29	6492248,29	1,20555,54	-4052029,75	5170491,58	4447,03,75	6618,01,12			
	1500	1703308	-1,70016,89	-2191849,02	2191849,01	1470318,91	5,07020,942	378569,1	-1415214,910	2530613,33			
	3000	2491000,81	-966697,55	1,09564	1203436	-4511117,05	-7261,567,55	-4750221,56	1,1941,58,74	2039696,04			
6D19	125	10080999,9	0511,004,05	-0546318	2546218	1818,4662,4	1770,004,1	11864,00,4	-1,1016000,1	-7130727,71			
	1250	2305884,13	-1253251,66	-1441960,17	1441960,17	755860,05	-2821161,960	2745373,11	770260,729	1080016,8			
	2375	4790166,72	-2402076,08	1,06548,59	106540,59	1,4,0,7,2,1	1,8,1,7,42,7	10120990,8	-2,114,13,88	-6,708426,42			
6D20	0	2669259,66	2134430,29	-2749,06,96	2,0,6,06,96	1,8,6,0,22,74	-2709,92,11	0,1,9,0,6,19,03	-0,4,9,4,79,23	-0,2,6,0,2,9,2,62			
	2250	4037241,22	1703317,79	2048,66,11	2048,66,11	7261,513,11	8,1,1,2,57,1,15	6,1,9,4,1,0,2,62	46,1,7,1,79,3	4,1,0,8,6,4,8			
	3500	1016,49,3,90	17276,04,82	647744,10	-647744,10	4,0,4,3,6,0,1,40,1	0,6,9,8,0,6,52,62	2,2,8,9,7,0,84	1764,21,4,25,1	505,674,82			
6D21	0	0,6,4,5,2,6,7,8	1,1,0,4,6,7,62	1,6,7,2,6,6,42	-1,6,7,8,1,0,8,42	6,4,7,2,1,2,8,0,7	7,0,4,0,0,8,7,14	0,0,4,7,2,0,8,6,26	-9,4,7,2,0,0,3,94	1,6,9,7,1,9,6,73			
	1187,5	8501419,07	-2099,900,02	-1,7,8,0,6,1,98	1,1,2,0,1,51,98	1,1,1,6,5,1,6,6,7	-1,0,9,3,4,4,2,5	-5,9,7,5,7,5,4,0	-7,4,1,7,5,0,4,66	-4,2,3,4,9,6,1,12			
	2375	-2660,1,6,0,2	9,2,7,6,6,8,5,61	4,0,5,8,9,8,4,79	4,0,7,8,9,8,4,8	-4,2,0,2,9,9,1,5,6	-9,1,0,7,5,4,9,5,6	-9,1,0,7,5,6,0,5,8	-1,9,1,2,4,4,66				
6D22	0	-3,2,0,7,2,6,0,35	-1,1,3,6,6,7,9,45	2,1,3,0,2,1,68	2,1,5,7,3,3,68	-5,9,9,7,5,0,59	-2,0,9,7,7,0,4	6,7,8,0,7,8,9,0,1	-6,0,0,4,1,2,0,3	-6,2,0,6,8,6,0,64			
	2250	15761641,4	6,1,5,2,8,2,60	1,3,0,8,5,4,8,9	-1,2,0,8,6,4,8,9	1,8,6,2,7,7,9,4	2,0,7,8,7,0,0,9	2,1,0,3,9,1,0,1,1	1,5,0,3,1,1,6,4,5	7,0,2,5,7,8,5			
	4800	0,0,7,1,9,7,6,54	-1,5,2,7,7,1,54	4,0,4,6,7,0,23	-4,0,4,6,7,0,23	7,2,2,5,2,0,6,71	8,1,1,4,0,2,7,67	-8,1,1,8,6,2,5,13	-1,1,8,6,8,1,3,66	-9,0,1,0,9,9,3,86			
6D24	0	-6,0,5,8,9,7,7,21	-3,1,6,9,4,9,3,83	2,0,9,9,8,4,5,66	-2,0,9,9,8,4,5,66	1,2,1,7,0,9,6,5,8	-7,1,7,1,1,6,1,5,6	-1,1,5,6,0,4,1,2,8	-1,0,5,2,3,5,7,9,5	-7,7,4,2,2,1,9,0			
	2250	1,4,8,0,1,2,1,4,7	5,4,8,2,3,5,7,62	1,0,9,1,3,1,9,6	-1,6,0,8,7,1,9,5	2,0,4,1,0,2,6,3,8	2,2,6,5,2,1,9,2,3	1,8,7,5,0,6,5,5,4,1	1,4,9,4,8,9,5,1,9	1,1,6,9,2,1,3,4,8			
	4500	-3,6,1,9,0,5,2,2	-1,2,5,9,7,6,1,25	-1,5,1,7,9,1,7,19	-1,5,1,7,9,1,7,19	-6,8,5,5,3,4,4,2,1	-2,6,6,4,3,1,1,5,1	-6,9,9,1,7,2,6,0,3	-1,3,0,7,4,9,8,2,3	-4,1,2,6,8,6,9,0,17			
6D23	0	9,0,4,7,1,6,66	1,1,0,9,4,4,7,72	2,0,6,6,6,6,6,6,62	-2,0,6,6,6,6,6,6,62	-6,6,1,8,9,1,9,1,8	2,1,4,0,3,8,4,6,66	-2,2,8,6,2,7,3,2,6	3,6,9,1,3,4,0,3,6	-1,9,2,6,7,6,5,0,6			
	2137,5	3327,50,5,49	-4,6,0,2,3,8,5,4	-9,6,7,5,2,9,1	9,6,7,5,2,9,1	5,3,4,3,6,6,8,2,5	2,8,6,6,4,6,2,0,3	6,8,8,2,6,4,3,9,4	2,1,2,9,9,7,0,2	3,6,8,6,6,0,1,8,6			
	4275	-3,1,1,6,5,0,5,4,9	-1,0,5,1,4,6,9,8,5	-6,0,0,8,9,1,6,2,8	6,0,0,8,9,1,6,2,8	6,4,1,9,4,2,0,1,4	-4,7,2,0,9,7,4,7,0	-3,7,0,9,0,4,6,6,2	-1,2,5,4,0,1,0,3,2	-2,5,5,3,8,9,9,6,7			
6D24	125	-5,8,9,9,3,5,4,0,7	-2,7,8,0,6,6,9,2,5	2,0,2,1,2,6,2,0,5	-2,0,2,1,2,6,2,0,5	-1,1,2,7,0,6,7,9,7	-4,5,9,5,2,2,4,6,2	-1,2,8,1,9,7,4,9,5	-1,5,8,0,4,9,2,8,2	-6,1,6,8,6,6,4,5,1			
	2250	0,9,4,6,2,7,6	1,9,4,9,6,5,1,6,4	-2,2,0,0,7,4,5,1	2,2,0,6,2,4,5,1	7,7,7,6,1,7,5,8,2	5,0,0,7,9,5,6,7	6,7,7,3,0,9,7,1,8	3,9,6,2,1,8,5,4,4	3,4,7,9,3,0,9,0,6			
	4375	-2,2,1,0,0,8,6,3,9	7,4,9,6,0,0,6,6	-4,2,6,2,5,1,1,0,3	4,2,6,2,5,1,1,0,3	-2,0,6,1,4,4,9,0,1	-2,4,7,7,2,0,9,7,4,3	-2,7,0,9,0,4,6,5,4	-3,7,0,9,0,4,6,6,2	-1,8,0,6,7,2,0,9,6			
6D25	0	4,3,7,3,6,9,8,1	-1,9,7,2,1,0,5	2,5,0,2,2,7,9	2,5,0,2,2,7,6	-5,6,8,4,2,1,7,4,6	-4,2,0,4,6,6,4,7,1	-4,7,6,2,3,7,4,6,4	-1,9,5,9,9,0,0,1,3	-2,9,1,3,7,1,7,6,2			
	2137,5	2107077,64	-4,7,3,9,6,46	5,9,1,3,4,7	5,0,1,3,4,7	2,4,5,2,1,3,3,84	2,2,3,0,0,6,5,35	2,1,0,5,7,7,8,4,9	1,2,4,9,5,3,6,1,1	1,8,4,2,1,0,3,66			
	4276	-2,8,6,6,7,7,2,1	1,0,0,0,1,8,9	1,4,3,0,0,1,1,8	-1,4,3,6,8,3,1,8	-5,9,5,8,0,9,6,4	-2,5,7,1,8,3,8,1,1	2,9,7,0,5,9,6,7,9	-2,2,9,7,0,7,3,1,2	-2,5,4,9,5,1,6,8,3			
6D26	0	-4,3,2,3,9,4,6,5,22	-1,8,6,6,4,1,3,7	-2,2,2,1,5,2	2,2,2,1,5,2	-5,4,3,5,6,0,0,1,66	-4,7,2,8,8,0,8,5	-4,0,9,2,1,5,5,4,8	-3,9,1,1,5,4,0,1,5	-3,8,7,1,5,5,7,0,2			
	2137,5	2109440,15	-4,6,8,9,0,34	5,9,7,9,1,95	-5,9,7,8,2,05	2,4,5,5,6,4,0,24	2,2,0,5,7,4,4,3	2,1,0,9,0,0,0,29	1,2,6,7,0,0,3,4,4	1,8,4,4,9,0,4,18			
	4275	-2,7,3,0,9,9,2,78	9,2,1,8,1,2	1,4,1,7,9,2,12	-1,4,1,7,9,2,12	-3,1,2,8,6,9,5,35	-2,6,2,1,5,5,9,0,6	-2,9,2,9,3,0,1,64	-2,5,3,0,0,2,9,0,47	-2,5,5,6,4,9,8,26			
6D27	125	-5,6,1,9,8,8,7,45	-2,7,8,9,9,3,0,6,4	2,7,1,1,6,0,7,63	2,7,1,1,5,5,7,63	-1,1,0,8,7,4,7,4	-4,6,3,4,9,8,0,35	1,0,3,2,9,2,6,1,4	-1,8,2,7,2,9,8,7	-2,0,0,8,1,0,2,6			
	2250	2,5,2,5,6,8,2,2	1,9,9,1,2,2,2,1	-2,5,6,0,6,2,3	2,5,6,0,6,2,3	7,1,9,1,2,7,0,21	5,1,9,1,3,8,1,35	5,7,1,9,7,2,1,10	2,9,4,2,2,7,5,9,1	2,4,0,4,0,1,1,05			
	4375	-3,2,6,7,7,3,2,6,8	-7,4,0,6,9,9,1,17	-6,2,1,4,2,8,2,16	6,2,1,4,2,8,2,16	-3,8,7,7,9,3,8,4	-3,6,9,6,3,3,4,1,6	-2,9,2,1,2,2,0,0	-2,9,1,7,9,1,3,8,2	-1,8,4,8,2,5,7,3			
6D28	0	2,1,5,9,6,8,3,72	-1,0,7,9,3,0,4,89	2,9,9,2,9,3,5,59	-2,9,9,2,9,3,5,59	3,8,4,7,3,2,54	4,1,0,6,5,0,7,15	-2,1,7,9,3,6,7,58	-4,6,5,7,0,8,7,30	-7,4,9,9,2,6,6,83			
	2187,5	2,6,9,3,6,6,1,39	1,3,3,6,3,1,12	-1,1,0,2,4,7,2,2	1,1,0,2,4,7,2,2	4,6,9,4,7,0,0,68	2,1,3,0,0,2,6,13	5,4,4,6,7,1,6,75	1,8,0,4,0,6,1,19	2,0,6,7,6,1,1,14			
	4375	-3,0,2,7,7,7,2,9	-1,0,5,0,7,6,7,8	-5,1,9,7,9,8,0,14	5,1,9,7,9,8,0,14	-5,6,7,4,6,3,5,5,3	-5,0,3,2,9,0,1,2,8	-3,9,4,1,2,4,6,4,5	-3,4,0,2,6,1,4,3,2	-2,6,2,7,1,8,6,4			
6D29	0	-4,5,1,1,1,6,2,64	-3,5,5,4,6,6,6,22	1,9,6,6,5,3,7,30	-1,9,6,6,5,3,7,30	1,1,1,9,7,1,0,60,4	-8,1,4,6,6,6,2,6,5	-1,0,0,4,6,3,0,0,8	-2,2,9,8,1,9,8,1,2	-6,7,0,9,9,4,0,92			
	2250	1,0,3,6,0,1,2,0,7	-4,4,7,6,2,9,1,34	1,6,2,0,2,6,5,85	1,6,2,5,2,8,6,85	2,3,7,7,5,5,6,2	1,9,9,6,3,9,1,6,7	1,6,7,8,0,9,6,0,4	1,3,3,5,7,8,5,0,6	1,0,6,4,2,7,2,1			
	4500	-7,5,0,1,1,8,1,89	-2,4,8,3,7,9,6,61	1,1,9,3,9,6,4,52	-1,1,9,3,9,6,4,52	1,3,0,1,8,3,0,1,2	-9,0,0,5,3,6,7,9,5	-1,1,5,1,2,7,6,6,5	-5,7,0,3,4,8,9,3,2	-7,9,4,7,6,6,7,78			
6D30	0	-3,4,8,3,4,4,8,19	-2,2,2,9,6,1,21	2,2,4,6,5,8,48	-2,2,4,6,5,8,48	-2,0,3,6,7,5,8,8	-1,9,6,0,6,6,2,66	-3,9,6,5,9,6,5,4	-1,1,1,7,0,0,0,7	-1,5,0,7,0,5,6,37			
	500	-7,7,9,0,4,2,8,3	1,5,1,6,7,2,34	-7,6,1,2,6,8	7,6,1,2,6,8	7,0,8,3,3,4,0,67	-7,6,4,1,4,1,3,06	-6,0,4,2,7,6,0,75	-7,8,9,6,6,2,8,07	-6,3,2,6,2,4,4,27			
	1000	-6,2,9,6,6,3,7,28	5,6,4,1,0,7,89	-3,7,6,6,1,2,11	3,7,6,6,1,2,11	-3,1,7,9,2,0,72	-6,6,2,8,3,9,9,14	1,3,3,4,6,5,5,17	-9,6,7,9,0,4,5,4	-2,6,9,6,4,2,7,43			
	2250	1,4,1,9,8,3,5,3,3	5,9,8,4,6,7,2,72	1,2,2,1,9,9,8,61	1,2,1,1,9,9,8,61	2,6,6,2,1,6,0,0,8	2,1,2,0,0,9,8,5,2	1,8,6,9,4,7,9,8,11	1,2,8,7,9,2,1,8,7	1,1,6,7,8,7,1,9,2			
	4500	-8,2,1,4,0,8,4,8	-1,0,8,7,1,5,2,96	1,2,1,4,7,8,2,99	-1,2,1,4,7,8,2,99	2,7,9,7,1,3,4,21	-8,2,4,8,3,6,2,52	-2,0,6,6,8,4,1,64	-1,8,6,0,1,1,9,69	-1,6,9,1,5,6,5,22			
6D31	0	3,9,7,5,6,5,2,63	6,1,6,6,5,7,58	2,2,2,7,4,9,8,18	-2,2,2,7,4,6,8,15	5,6,9,7,4,0,6,22	7,9,0,1,5,1,6,24	2,3,2,9,3,5,6,11	6,5,8,2,9,0,6,71	1,5,7,3,3,6,6,02			
	2437,5	1,1,6,5,8,5,7,4	4,7,2,1,7,0,8,05	-4,0,9,4,9,2,82	4,0,9,4,9,2,83	2,1,4,1,0,0,7,0,5	1,6,1,2,3,4,0,0,1	1,7,0,5,1,3,5,6	1,0,0,7,2,6,1,1	1,0,7,9,6,0,0,1			
	4875	-2,7,4,6,0,0,0,2,8	-9,6,2,1,6,1,0,3	-1,0,8,4,6,3,0,97	3,1,0,4,6,3,0,97	-4,8,4,0,9,2,5,7	-4,1,1,8,0,7,8,2,1	-1,4,6,1,0,6,3,6,4	2,7,4,1,3,9,1,78	-2,1,0,7,0,9,7,4,4			
6D4	0	-1,5,1,9,2,8,6,06	-2,2,5,0,0,0,0,21	1,7,9,2,7,0,41	-1,7,9,2,7,0,43	2,1,3,9,6,4,4,6	-1,6,2,3,4,1,2,26	1,8,9,0,0,3,6,56	-1,1,0,6,0,1,6,97	-1,6,2,8,7,0,9,94			
	500	-6,0,2,8,9,0,3,77	2,0,1,1,1,8,1,06	4,5,4,6,3,27	-4,6,0,4,1,27	-1,9,9,3,7,9,84	-3,9,2,7,9,8,1,32	-1,4,9,2,7,6,2,39	-5,6,1,1,6,6,69	-5,0,7,9,6,0,1,76			
	1000	-2,7,6,5,1,0,6,6	8,5,5,0,7,4,0,7	-9,7,3,6,6,0,0,37	9,7,3,6,6,0,0,37	5,8,5,9,8,6,5,93	2,1,9,0,8,6,6,15	4,0,3,9,9,9,0,63	-3,2,6,6,0,7,7,02	1,6,9,0,1,1,0,46			
6D5	0	-0,1,9,6,9,0,5,0,3	9,6,1,0,4,4,1,1	-1,1,0,7,8,0,3,10,0,7,8,0,3	-2,7,3,1,7,7,7,4	3,0,0,8,2,1,2,0,7	3,0,1,0,1,1,7,22	2,3,8,9,2,5,7,0,7	-2,0,6,5,1,7,5,2				
	2250	4,9,6,1,6,8,4,0,6	1,0,0,3,7,7,2,4	2,8,0,1,6,7,3,1	-2,8,0,1,6,7,3,1	7,6,0,9,1,3,6,7,1	6,4,3,1,6,0,4,4,8	5,9,3,4,6,1,9,8	4,7,1,8,4,7,6,7,7	4,2,1,4,1,2,4,5,4			
	4500	1,1,9,4,9,3,0,7,4	1,7,1,5,6,0,0,5,9	6,7,0,7,1,4,7,7	-6,7,3,7,1,4,7,7	4,1,7,8,7,0,0,3,3	3,4,7,6,2,1,1,1,4	2,2,7,3,4,1,0,1,5	1,6,9,1,6,6,7,0,5	5,6,6,0,0,3,7,72			
6D6	0	2,0,0,0,3,4,4,8	-7,3,6,9,6,2,3,7	-6,9,9,7,0,4,5,9	-6,9,9,7,0,4,0,9	1,4,7,9,8,9,8,0,9	5,6,4,4,5,0,0,4,1	-1,2,0,0,8,9,0,5,1	-1,2,0,6,8,7,0,8,2	-5,4,4,8,5,4,9,5,2			
	500	4,0,8,1,2,2,6,6	4,0,8,7,0,1,0,7	1,6,7,1,2,2,1	1,6,7,1,2,2,1	1,2,7,1,6,6,9,6,2	6,0,7,3,9,9,6,1,5	6,7,2,8,0,3,9,7,7	2,9,1,3,5,1,6,8,3	2,7,4,2,1,5,6,5,5			
	1000	8,4,1,0,7,1,1	2,4,1,7,1,0,2,5,1	4,0,3,1,0,9,3,3,1	-4,0,1,5,9,3,3,1	9,7,8,6,3,9,6,6,3	6,4,2,8,0,4,1,0,7	-2,0,0,7,3,5,5,0,8	3,5,2,2,7,1,0,5,8	-3,7,0,4,1,5,7,3,6			
6D7	0	6,8,0,1,3,2,5	2,6,0,0,4,0,8	3,4,1,1,1,0,1,8,1,1,1,0,1,5	-3,4,1,1,1,0,1,5	4,9,8,0,4,1,1,0	6,7,2,8,0,3,1,2,6	-4,2,4,2,8,1,9,9	3,6,1,2,0,1,0,6	-3,5,2,7,1,7,2,1			
	500	9,8,6,2,5,1,4,8	-2,7,5,5,1	6,8,6,1,1,0,8,5,1	-8,5,6,1,9,9,6,1	-1,1,8,6,3,4,2,6,0	-4,1,7,4,1,4,3,2	-1,7,5,8,4,3,0,5,3	2,7,1,6,4,8,0,9,3	1,5,0,7,0,3,5,9,2			
	1000	-3,6,2,5,9,1,6,0,5	2,8,6,6,9,1,7,9	1,0,3,1,2,3,8,4,9	1,0,3,1,2,3,8,9,9	-3,6,7,7,5,2,6,1,2	-1,9,2,6,1,9,2,8,6	-4,0,9,1,3,6,9,6,3	-1,4,3,5,0,7,4,3,5	-3,2,9,1,1,0,9,4,5,4			
6D8	0	-9,4,4,8,1,5,3,5,5	-8,9,4,4,3,8,4,6,7	7,5,0,2,9,6,2,3,3	-7,5,0,2,9,6,2,3,3	6,7,6,8,4,8,0,6,6	-4,7,2,5,9,9,2,5,9	-6,3,0,1,5,1,4,7,6	-3,3,2,6,2,6,9,8,2	-4,6,7,6,8,0,3,1,4			
	500	-2,5,9,6,7,4,8,4,4	-5,2,1,9,0,3,9,8	4,4,8,6,1,0,9,9	-4,4,9,6,1,0,9,9	-2,0,8,6,5,4,1,9,7	-2,1,6,6,2,0,4,1,4,1	-2,7,0,0,4,2,4,9,9	-1,0,0,4,2,2,1,9,1	2,7,4,2,5,2,1,8,8			
	1000	1,1,4,0,0,4,1,1,4	-1,6,9,3,6,0,2,4	1,4,8,9,2,6,7,2	-1,4,8,9,2,6,7,2	-1,8,7,9,4,0,0,1,5	-1,4,1,1,0,4,0,1,2	-1,7,2,3,7,8,4,1,2	-1,0,7,2,2,7,0,8,6	-1,0,4,0,3,4,0,1,7			
6D9	0	-2,4,7,3,0,2,8,4	-1,0,3,4,0,0,2,6,7	3,6,9,8,2,4,7,7	-3,9,9,8,2,4,0,7	-7,7,0,2,2,4,4,5	-6,7,6,6,8,3,3,6,6	-6,6,0,5,4,6,9,8,2	-4,1,2,6,1,0,2,2,2	-4,6,2,8,6,3,6,0,9			
	500	-2,5,9,6,7,4,8,4,4	-5,2,1,9,0,3,9,8	2,6,6,4,9,1,2	-2,6,6,4,9,1,2	-4,4,1,7,6,7,9,2,8	-3,3,2,2,3,1,4,0,4	-3,8,6,0,4,6,6,6	-2,3,6,0,2,0,3,1,0	-2,8,2,1,8,8,7,2,9			
	1000	-1,1,7,3,5,5,1,4,5	-1,5,9,8,6,4,3,6,1	1,4,0,1,5,0,3,5	-1,2,0,1,5,0,3,5	-1,9,1,4,7,1,0,7,5	-1,4,7,1,2,0,9,4,3	-1,7,3,1,8,7,1,3,2,1	-1,1,2,5,5,6,4,0,6	-1,1,4,7,0,3,8,6,5			
6E0	0	-7,5,9,0,4,7,8,11	7,5,5,6,2,2,19	3,0,9,7,0,6,2,62	-3,0,8,7,0,8,52	-7,8,9,9,7,3,9,23	-6,9,3,1,6,9,9,8	-2,4,8,0,1,7,7,40	8,4,4,0,5,9,1,60	-7,1,0,8,2,8,7,97	1,2,2,7,0,4,2,6,3	-6,6,5,3,6,9,2,63	
	1500	4,1,9,1,2,5,5,24	7,8,1,0,9,1	5,0,0,4,0,0,3,5	-5,0,0,4,7,0,3,5	6,0,1,1,6,8,0,0,6	4,6,0,3,4,5,4,7,2	3,3,6,2,5,6,1	4,2,2,5,5,1,7,6,0	3,0,2,1,7,4,2,4,1	3,0,0,1,6,9,0,5,1,1	-1,5,7,5,4,5,4,6,7	
	3000	-1,0,0,8,6,5,6,7,9	7,1,0,2,3,6,0,5	6,6,2,1,6,2,3,7	-6,6,2,1,6,2,2,7	-1,9,2,8,7,7,3,5,4	-1,0,5,6,3,1,7,4,4	-1,2,0,1,8,6,8,4,2	8,4,6,4,6,1,0,6,7	-9,7,0,0,2,9,4,6,6			
6E1	0	-1,3,6,4,7,7,1,3,2	0,2,9,1,8,0,2,1	-3,0,4,2,6,4,4,46	3,0,4,2,6,4,4,46	-1,5,7,5,4,5,4,6,7	-1,4,2,8,1,7,7,0,5	-1,7,6,4,2,8,4,4,1	-1,2,5,5,8,7,7,0,9	-1,2,0,6,9,1,1,2,9			
	2000	9,6,4,4,5,7,4,2	4,3,7,4,5,9,9,8	9,0,8,0,0,4	-9,0,8,0,0,4	1,2,2,7,0,4,2,0,3	1,0,6,5,0,0,0,0,9	1,0,6,5,0,3,7,4,8	8,6,8,8,5,4,1,0,1	8,8,7,1,5,9,2,9,4			
	4000	-1,3,9,6,0,7,2,0,3	4,9,5,7,2,5,7,5	3,2,2,9,7,4,5,6	-2,2,9,7,4,5,6,8	-1,5,2,9,1,2,1,5,2	-1,0,2,8,1,7,0,4,4	-1,0,6,3,8,9,6,1	-1,1,7,6,0,6,1,1,9	-1,2,0,4,1,9,6,9,1			
6E2	0	-1,0,4,6,5,2,8,4,3	-2,6,7,9,0,6,0,5	-6,6,9,3,0,5,4,7	6,6,9,3,0,5,4,7	-1,3,9,3,7,0,3,7,2	-1,2,4,9,1,5,6,7,0	-1,4,2,8,1,7,7,0,5	-1,0,5,6,3,1,7,4,4	-1,2,0,6,9,1,1,2,9			
	2000	9,6,4,4,5,7,4,2	4,3,7,4,5,9,9,8	9,0,8,0,0,4	-9,0,8,0,0,4	1,2,2,7,0,4,2,0,3	1,0,6,5,0,0,0,0,9	1,0,6,5,0,3,7,4,8	8,6,8,8,5,4,1,0,1	8,8,7,1,5,9,2,9,4			
	4000	-1,3,9,6,0,7,2,0,3	4,9,5,7,2,5,7,5	3,2,2,9,7,4,5,6	-2,2,9,7,4,5,6,8	-1,5,2,9,1,2,1,5,2	-1,0,2,8,1,7,0,4,4	-1,0,6,3,8,9,6,1	-1,1,7,6,0,6,1,1,9	-1,2,0,4,1,9,6,9,1			
6E3	0	-1,0,4,6,5,2,8,4,3	-2,6,7,9,0,6,0,5	-6,6,9,3,0,5,4,7	6,6,9,3,0,5,4,7	-1,3,9,3,7,0,3,7,2	-1,2,4,9,1,5,6,7,0	-1,1,1,0,7,0,2,6,4	-1,0,0,1,2,1,0,0,8	-8,2,2,6,3,9,0,9,0			

	1500	3822204,41	1260881,77	-4807667,18	48,7667,18	4384445,82	2991650,7	4405954,72	3001088,50	2678884,41			
	0000	-7949048,90	505214,59	-216028,06	216028,06	8570979,57	-8105719,88	-7943088,01	-1408890,81	-6669998,06			
70Y11	0	11501841,1	795,25,19	-810251,6	810251,6	17935409,87	17089092,4	12002596,8	5912,2097,51	11056867,41	44943,01,1	78011076,0	
	1607,5	2064797,27	83942,63	-209816,74	209816,74	3692654,92	2875101,39	5409624,45	2483080,06	2656941,71	12726,16,8	1HY268664	
	3275	-11888838,5	601301,47	-306900,08	306900,08	-14126013,6	11982081,4	1,2,16609,5	-10342672,7	11057236,8			
70Y10	160	1041701,9	145661,82	-1567411,3	1567411,3	1462135,19	-1522351,31	17666449,4	-1016672	1504,1820,3			
	2075	1773974,68	-120885,76	-142856,46	142856,46	1900662,37	1846624,12	1946078,62	1496000,3	1704119,11			
	4000	-8224333,62	693452,54	-1536709,4	1536709,4	-8096571,69	9247768,51	-2006,2265,3	8245255,23	-19448975,7			
70Y11	01	-1298258,15	-9019,42	-652997,06	652997,06	-1573304,46	2267302,87	-479041,97	1806101,4	-400740,37			
	2125	4150364,3	-31042,87	-1252622,19	1252622,19	4634968,59	1901468,81	5782975,41	2512117,59	-9648,37,93			
	4260	1000524,25	-51070,32	-1972258,45	1972258,45	-1314301,61	-3100496,2	911279,360	-2914,37,84	2564,00,990			
70Y12	160	6932249,14	9247,08	-162,05305	162,05305	6436,6,086	-1601304,5	1778,3150	-13659297,8	15230742,3			
	2075	1792006,32	-122947,76	-151015,75	151015,75	1942771,77	1697299,96	1914413,1	1406701,94	1740020,34			
	4000	-6356886,62	-764140,09	-15903975,1	15903975,1	7604602,9	10340574,5	-23130466,9	9060291,1	-19611667,1			
70Y13	0	24664640,6	6047345,05	-524424,78	524424,78	42470200,6	12991662,7	24053154,7	21720104,2	22670088,9			
	2375	5623292,98	-82970,82	4866,27,84	4866,27,84	5610366,62	10936684,1	7160,05,661	6440569,74	681358,626			
	4750	-2870,7264,2	-8213086,35	10256879,8	10256879,8	-45199655,2	26014279,2	-46470,717,8	-14905345,9	23267729,8			
70Y14	0	24444166,2	7913809,15	790211,03	790211,03	92007,697,2	30702366,6	53016,099,1	21342559,6	22668938,5			
	2375	6154706,81	93183,05	5051302,52	5051302,52	7530249,05	11855519,2	1245709,94	10065490,3	993140,981			
	4750	-26423881,9	-7734472,85	10832818,3	10832818,3	-42830814,8	-22029600,7	-4537,8812	-13131957,3	32801036,1			
70Y15	250	-16946901,6	60076,29	-376429,22	376429,22	20253442,1	-10144170,5	-17360672,1	-1669271,5	-149,15140,5			
	2375	6242868,43	40368,06	-100617,61	100617,61	5156822,01	4352775,19	6803151,86	5699296,89	3806597,06			
	4500	14795333,8	30680,82	109094,21	-109094,21	17805316,4	15579972,9	15446245	13414256,2	13217345,6			
70Y16	750	-17019679,4	92145,76	-4282,0081	4282,0081	-2047,0,9,5	-1880082,6	-17461398,8	16791116,2	-14932303,7			
	2375	4211378,49	-427,07	-161508,23	161508,23	5052051,26	4251361,79	6611119,07	5344878,05	5936590,86			
	4500	14800610,4	31291,82	105214,07	-105214,07	17814099	15563936,5	15462896,4	12417842,2	13228556,4			
70Y17	225	-14792241,9	72047,97,79	877808,97	-877808,97	-14127660,8	-12470214,7	-14317781,5	-12522317,6	-14100117,3			
	1362,5	11511660	551707,76	269298,5	-269298,5	14596604,6	12691265,6	12126738,2	10802773	10116005,1			
	2500	24529772,1	1160952,11	-299291,36	299291,36	27683155,1	24002978,6	25015286,6	21771402,6	22362167,1			
70Y18	0	26460862,2	720409,61	-476240,53	476240,53	29388396,6	25542566,3	26542677,7	22477158,9	23034296,1			
	1137,5	1940945,69	-2306886,79	-419510,53	419510,53	1078862,34	-681066,097	299668,016	1269291,64	2124410,6			
	2275	-34454681	-3890865,83	-362777,66	362777,66	-40051016,5	-40855168,2	-39493305,3	-31835604,7	-31042605,1			
70Y19	0	9106707,34	2594895,98	670186,79	-670186,79	10832292,2	11650017,6	10367821,1	7811808,52	6784666,7			
	2137,5	2947202,1	2541927,65	784185,49	-784185,49	7481725,76	6194079,6	4589289,07	3250248,83	1674714,95			
	4275	-3668665,6	-19628366,6	963192,27	-963192,27	891,40024,2	-46831220,9	-48843403,7	-31814690,4	-30339416,4			
70Y2	0	11502961,3	78140,86	-809050,76	809050,76	13923911,8	11382130,8	13001967,4	2624249,5	11081009,9			
	1637,5	3034619,83	73943,45	-281035,45	281035,45	3787380,31	3350967,98	3568044,82	2473224,32	2984089,83			
	3275	-11751110	79548	247277,83	-247277,83	-13974062,4	-12003857,2	-12523140,7	-10353454,4	-10798554,4			
70Y20	0	8004462,29	2618679,64	820009,96	-820009,96	10911096,9	11661758,9	10469729,9	7788026,93	6870006			
	2137,5	3264297,67	2619391,85	913024,59	-913024,59	6081613,85	6737413,9	5030061,05	2566590,03	2197146,77			
	4275	-35197182	-10613017,4	1006039,22	-1006039,22	-5889799,6	-45741264,9	-47861987,2	-30772026,5	-32582699,1			
70Y21	0	26292224,2	-768793,1	-452155,69	452155,69	29036800	25036662,4	26266199,4	22956061,6	23169941,6			
	1137,5	1762375,36	-2344764,85	292989,26	-292989,26	1636774,05	-672946,094	57670,6480	1702947,61	1840826,16			
	2275	-36063084	-3803738,94	-139822,83	139822,83	-43304868	-40801429,8	-40361400,4	-31968198,1	-31427317,1			
70Y22	225	-10913800	2560034,69	734607,9	-734607,9	-12923704,8	-11809809,1	-10152466,7	-11561272,9	-10163567,1			
	1362,5	11838702,6	561581,12	216099,72	-216099,72	15093106,1	13176760	12725073,6	10839422,1	10452242,6			
	2500	24236614,4	-1234668,26	-304409,46	304409,46	27187206	24010504,7	24052752,5	21393055,3	22110020,6			
70Y23	0	23691562	-727542,91	-434402,64	434402,64	27366905,8	23701489,1	24644735,1	2061,1443,3	21713363,4			
	1125	9050098,15	-246887,64	3780372,67	-3780372,67	9264837,68	12186691,1	4249886,64	1864742,6	3942760,82			
	2250	-2050742,3	233567,81	7995148,11	-7995148,11	-24355198,8	-13022165,5	-29811977,5	-11351046,8	-25742315,4			
70Y24	0	22701289,7	-62186,74	1196472,45	-1196472,45	27469379,8	26219149,2	22706557	21459525	19436279,6			
	1250	1867963,3	1732266,29	1927596,79	-1927596,79	2269268,8	21801271,3	17750318	18546508,8	15078602,6			
	2500	-5218007,49	312217,07	2658721,19	-2658721,19	-5080497,69	-2391291,93	-7974606,48	2080234,67	-7089082,81			
70Y25	0	6081,1369,4	10309552,5	-1862320,37	1862320,37	77479475,3	81148667,8	65059540,3	54053125,1	47415211,7			
	1125	19828193,8	3687304,22	8585037,45	-8585037,45	28251216,3	29935667	16149458,4	22672378,1	10884710,7			
	2250	-31093206,2	-5660161,18	14992995,1	-14992995,1	-46716105,3	-22568574	-54043853,7	-14751190	-41728581,2			
70Y26	0	14745194,9	7164147,93	-4494894,94	4494894,94	29198876,6	17551834,5	26991114,1	9225269,98	17316080,8			
	1250	24862948	9192330,96	1544260,85	-1544260,85	44543267,1	43117374,3	36419322	30866813,4	29766467,9			
	2500	25570295,4	7913382,21	1406373,09	-1406373,09	43346756,6	35001538,5	32051255	24278991,6	21747521,1			
70Y27	0	13780000,9	5918827,13	-4884584,79	4884584,79	27805841	15973197,2	29153216,3	8009879,4	16785129			
	1250	24574986,2	9072705,55	1728806,31	-1728806,31	44486,284,9	42582,713,7	34132670,8	20661642,1	20673297,1			
	2500	25595614,9	7971677,25	1426969,19	-1426969,19	43960,101,4	38289042,7	33252409	24647814,7	22079292			
70Y28	0	6289,2152	9832910,34	1412116,72	-1412116,72	73011078,9	62542790,7	66508240	45603029,9	48144842,8			
	1125	20700095,7	4304281,2	7220841,12	-7220841,12	31800044,9	32448474,4	19284702	25139662,1	12186139,1			
	2250	-28074096,5	-4000464,87	15663001,5	-15663001,5	-40450050,4	-16927081,8	-50230065,1	-11268534,5	-29806277,4			
70Y29	0	21076909,1	10071,894	1015508,99	-1015508,99	2653767,4	7033,2,90,3	2,0,5,1,0,0,1,4	1,9,8,5,2,4,6,9	1,6,0,6,3,2,4,2			
	1250	17561641	277524,41	1769305,2	-1769305,2	21519008,3	20549254,1	19054713,2	17366951,6	14222182,2			
	2500	-5741120,47	5411676,83	2505101,58	-2505101,58	-6022661,56	-2865935,16	-8146646,5	-2912417	-7421599,55			
70Y3	236	-6342997,46	140847,18	12238623,9	-12238623,9	-7080109,46	6426923,8	-19462480,3	5386182,75	-18813060,2			
	2612,5	3284462,76	73268,48	2722061,8	-2722061,8	4178775,87	5481202,66	764870,021	5495671,82	596161,035			
	5000	-217753,48	5020,79	6994500,66	-6994500,66	721818,612	-7687263,2	6811168,19	-6491028,72	5910072,48			
70Y30	0	25364102,3	-777414,53	78408,08	-78408,08	26180059,3	25977905,5	25617092,7	22895484,5	22758909,6			
	1125	9209965,8	57079,1	4150246,01	-4150246,01	11160509,5	14104213,2	5088716,53	12043108,6	4572865,81			
	2250	19918166,6	891572,93	8224955,94	-8224955,94	22476307,4	11496200,9	-23708818,4	-10504717,6	2602,0813,5			
70Y31	0	10712116,9	-2060003,45	-1567869,3	1567869,3	9552454,79	7651176,25	10943669,8	8229831,86	11051972,5			
	1250	12393232,5	-935990,06	-5978610,24	5978610,24	13874464,5	11500777,1	12756178,5	10515880,1	11591938,6			
	2500	6700651,55	193932,71	973209,77	-973209,77	9600546,64	-5410372,06	-5196072,42	-4795671,59	5466001,06			
70Y32	0	-26898082,3	6096785,08	2354984,24	-2354984,24	-39712554,9	-29820214,6	-34765661,8	-21168788,3	-25427759,9			
	1250	1868945,41	-40443749,33	262975,93	-262975,93	-448,1884,62	1710824,71	-2462178,28	1809830,11	1173571,63			
	2500	9428073,04	-2690710,22	-1649030,22	1649030,22	7019226,86	5534615,28	9097579,75	7009148,81	6977410,2			
70Y33	0	-6064896,2	-2260519,11	-940164,45	940164,45	11054706,1	-6635093,84	-7611669,49	-6304546,68	-4812267,87			
	2250	14130372,4	8816124,81	879618,11	-879618,11	31060646,6	24090760	22243585	13508991,5	11925678,9			
	4500	-27559939	-8394646,44	2899390,6	-2899390,6	-46503261,1	-34036516,7	39705237	-27074480,8	-27203098,6			
70Y34	0	-8212716,66	-2426538,96	-1065097,54	1065097,54	-11307722,6	-9935099,44	-7697754,6	-5550302,96	4602687,39			
	2250	13409625,4	8867184,7	698593,57	-698593,57	30276846	23183119,4	21726073	12897397,1	11439928,6			

	4400	24868810.6	-6724607.29	24868864.8	-24868864.8	-4778.0498	24862706.8	-4805467.6	-20761908.1	-18184678.41					
7CVZ5	0	-29448766.2	-5019140.38	17748846.63	-17748846.63	-42649105.6	-3305569.3	-6810187.6	-24837717.5	-27176041.9					
	1250	9863061.33	9036435.99	19010628.82	19010628.82	-16602307.99	1999959.79	-727056.1141	4229478.19	2660031.29					
	2500	16394973.3	1466708.94	279206.08	-279206.08	15593918.6	16860766	1461340.0	16011176.2	14508604.2					
7CVZ6	0	17210640.7	2046780.27	2046780.27	-2046780.27	17507344.4	16558489.8	1504781.2	16853861.4	16322481.8					
	1250	14871221.3	-926611.6	944404.94	-944404.94	10498667	14033609.8	14736559.2	13559080.6	13359104.7					
	2500	-1151087.26	172667.02	-184761	184761	-5053609.6	-7454819.8	-7234042.78	-6600261.45	-6341711.86					
7CVZ7	250	-20992199.9	-497135.61	-7263184.13	7263184.13	-24422470.61	-29158.166	-1999345.6	-2535515.7	-12056525.1					
	1375	2761975.4	-129432.61	2936661.85	-2936661.85	8496278.9	3066676.91	1152784.8	2931991.2	1097158.6					
	2500	22380084.3	-663999.11	4000320.64	5066920.54	25797702.5	22244042.7	23498375.8	19604947.3	20679304.3					
7CVZ8	100	-17226106.5	148981.45	-6248723.41	6248723.41	-20980419.1	-24708377.2	-1855959.2	-21126560.9	-6878706.79					
	1125	13515053.9	-2218890.56	1787730.59	-1787730.59	14851351.7	10018793.4	1590604.11	9772592.65	1375451.13					
	2500	34426008.8	-709982.26	712265.05	-712265.05	39216640.6	28124722.7	2460455.1	28542106.2	23841075.7					
7CVZ9	0	46709405.3	9306679.44	11474483.84	-11474483.84	70946044.6	56610906.2	6804027.9	41066702.3	40371141.2					
	1125	8954900.06	691297.02	-666408.96	666408.96	9248027.24	7436945.672	1415453.1	7005604.019	11863002.1					
	2250	-5205.8749	-1994221.2	12579.074	-12579.074	-20108046.6	-7840512.8	-6201944.6	-5940999.7	-3579540.5					
7CY4	0	-1103941.87	19667.06	-940477.83	940477.83	-1386944.866	-1194975.79	576027.973	-1040193.61	472684.844					
	2500	5456077.04	27328.81	898088.85	-898088.85	5598775.02	5600980.89	4922002.09	5509560.59	4111010.04					
	5000	-3497949.46	94905.25	7915660.27	-7915660.27	4143051.93	9922293.351	-6307721.01	7501196.661	-6603142.45					
7CVZ40	250	-59817230	20416098.8	-11664951.1	11664951.1	-104447617	-6931725.5	-6982220.2	-6436510.7	-4203100.7					
	1375	-16751408.1	4600529.22	8129493.95	-8129493.95	27462536.5	-30472447.3	-1340810	-2509281.3	-7759723.74					
	2500	19614479.1	8461787.79	-4564037.09	4564037.09	3751605	22580089.8	22450756.5	12673397.8	20789894.6					
7CVZ41	250	-612758.08	21010886.51	-12286241.2	12286241.2	10716884.4	-37280753.9	-7139501.4	-6659485.3	-4412180.1					
	1375	-17687106.2	-5043618.61	8640306.45	-8640306.45	29654929.9	-32725316.6	-1468807.2	-2098496.4	-8412146.77					
	2500	17021777.4	2196816.7	-4018112.09	4018112.09	3421005.5	21084940	21412875.8	11433293.8	20299900.7					
7CVZ42	0	49284068.9	8992106.25	-686021.84	686021.84	73493659.53	59832614.1	5060211.2	40036562.1	44865260.6					
	1125	3218010.15	-765606.43	-7466867.94	7466867.94	2036041.69	5174288.28	1048611.4	3814980.01	9607381.28					
	2250	-6006.2284	-12119668.7	14647380.9	-14647380.9	-9994802.9	-5146263.4	-6061312.2	-6268971.1	-4150340.13					
7CVZ43	0	-9941661.37	-4287.39	-2729090.07	2729090.07	-12614631.1	-10709027.5	-7978236.15	-7140586.6	6481223.9					
	1250	14809929.5	-4477806.55	1443629.65	-1443629.65	14736220.3	10714091.2	7675702.9	12106878.3	14717213.5					
	2500	1998384.4	-445495.7	-168169.2	168169.2	23143772.1	20364423.6	20717670.8	17816071.6	19119776.2					
7CVZ44	250	-24104660.1	-146737.95	-8260245.49	8260245.49	-23480048.3	34310769.8	-16964254.3	-23123324.9	-14259883.1					
	1375	7179544.76	-611466.63	-4007195.15	4007195.15	7789909.66	2641302.64	11266492.5	2940714.65	10062666.9					
	2500	26406692.5	875137.1	2456694.92	-2456694.92	29448589.7	25226675	25810279.7	23113302.7	22679763.9					
7CVZ45	125	2221417.15	528026.3	-4099793.66	4099793.66	3511022.66	-1788021.98	7461639.7	-1980538.86	6946039.73					
	1250	2707166.27	-407758.66	-684160.61	684160.61	2504180.64	1020658.37	3005391.24	1486648.63	2971103.35					
	2375	-8800024.23	-1601641.51	3271476.72	-3271476.72	-13002535.7	-7257920.38	-1412821.3	-5002962.75	-10991920.8					
7CVZ46	225	-4704709.83	813381.52	4233584.28	-4233584.28	-4376625.49	245143.654	-8642080.93	-5210152.085	-8071464.09					
	1300	3825312.18	309090.9	-153615.53	153615.53	5084324.89	3142374.17	4469969.06	3004536.09	3581035.84					
	2375	302726.1	2012204.71	-4640817.22	4640817.22	40745.264	-4540658.18	4695067.96	-2814722.01	4568708.98					
7CVZ47	225	-3321992.91	-1235211.09	-6397749.49	6397749.49	-5062810.86	-6022949.3	-3984577.09	-3564617.26	-1414830					
	2250	8903183.27	2916845.84	153169.14	-153169.14	12992501.3	10203526.2	9830894.07	8883107.27	6107422.82					
	4275	-10404908.7	-4239942.46	945064.81	-945064.81	-20381878.4	-17607426.7	-13682062.8	-11240789.6	10941886.2					
7CVZ48	225	-5503929.38	-2071094.85	-1523270.89	1523270.89	-9918486.7	-9335744.72	-6136875.87	-6034383.23	-3562592.85					
	2250	6613707.72	2438311.36	85988.31	-85988.31	12716647.4	8808818.07	9676245.62	6013610.43	6870055.47					
	4275	-11403723.4	-3873326.16	1696007.57	-1696007.57	-20481789.9	-14279444.8	-17938980.7	-9167944.25	-12238857.9					
7CVZ49	225	-22022342.3	1206845.92	194373.21	-194373.21	-24299852.5	-21770305.3	-22128489.1	-19645172.2	1999504.4					
	1362.5	8420946.92	5851223.27	498782.79	-498782.79	11041337.1	9913671.3	8871206.51	6007788.41	7129941.44					
	2500	25699748.2	85602.97	800212.03	-800212.03	30525905.3	27598430.4	25811694.5	23735666.4	22209863.2					
7CY5	225	-6201254.11	211880.06	12611073.2	-12611073.2	-7102524.04	6830520.87	-16552703.1	6709837.21	-16931084.6					
	2612.5	3411778.24	94066.77	2761559.04	-2761559.04	4228632.32	8661436.69	761161.709	5556001.75	886186.49					
	5000	-404758.14	-43748.5	-7087866.15	7087866.15	-6557110.168	-7905883.28	6976012.52	6449442.82	6014676.41					
7CVZ50	0	26667890.7	-153045.29	841110.58	-841110.58	30633802.7	27462882.9	28118650.1	23668926.5	22614927.5					
	1137.5	5412016.65	-835740.01	-219688.97	219688.97	5157235.98	4862169.75	5123516.59	4870034.9	5068636.09					
	2276	28126166.1	1611809.28	1080498.57	-1080498.57	36172722.2	32097760.3	29923734.9	26287780.2	24643900.8					
7CVZ6	250	-24846044.8	164074.75	2892282.52	-2892282.52	-20553730.9	28760192.8	-23106396.5	24784496.51	-19908085.9					
	625	-17877362.7	171264.87	1099838.22	-1099838.22	-20938827.4	-19554015.1	-17244774.9	-16892200.8	-14919952					
	1000	10809992.7	178434.96	493006.2	-493006.2	-12722495.3	-10895714.8	-11701027.6	-9512287.86	-10199699					
7CVZ7	0	20221891.9	120428.87	1001944.06	-1001944.06	24474958.2	22439783.7	20272698.5	19119453.1	17270952.4					
	1750	7545536.39	146367.68	648343.14	-648343.14	9226963.79	8742066.98	7386668.77	7274590.67	6207462.92					
	3500	12046949.2	182206.49	294841.42	-294841.42	14656448.4	12837783.5	12057359.6	10972997	11349711.6					
7CVZ8	0	20211596.3	113010.39	1004893.66	-1004893.66	24499862.2	22483481	20259699.8	19131724.1	17259029.2					
	1750	7608504.87	127850.27	627918.9	-627918.9	9304786.29	8799061.45	7460403.77	7412781.09	6282627.97					
	3500	12209930.4	124600.13	221179.92	-221179.92	14461418.3	12470267.4	12954832.6	10780986.3	11107998.4					
7CVZ9	250	-24721679.6	97974.74	2805599.78	-2805599.78	-29569266.8	-26911057.1	-22519297.6	24774651.4	-19724471.7					
	625	-17550706.4	110726.19	1171096.11	-1171096.11	-20079885.3	-19646011.4	-17008079.6	-16049902.3	-14741379.3					
	1000	-10711648.3	109477.65	462567.85	-462567.85	-12853982.1	-12026642.1	-11600736.8	-9703513.89	-10036940.1					
8B1	250	-0676881.51	-149213.07	7752293.45	-7752293.45	-4650999.2	4128175.9	-12141640.3	6667879.79	-10286257.6	49828620.2	79311078.9			
	300	169.8161	60940.22	7726204.06	-7726204.06	7129197.66	9946589.64	-8279603.62	9473956.62	-5433366.02	-64677667.4	-107209684			
	350	7049314.62	276193.86	7709175.27	-7709175.27	8981087.72	16747987.6	-4224400.495	13274540.3	-6667774.586					
8B10	0	13571022.1	1749824.68	12187426.4	-12187426.4	19004946.8	23899955.2	3106359.71	22182601.7	1245236.13					
	625	-12999066.7	-906146.34	13182300.3	-13182300.3	-15786712.8	4755619.47	-30337274.7	4754937.27	-27879767.3					
	1250	-4126529.4	-3605083.91	24177235.4	-24177235.4	-55430807.1	-21476370.8	-72247565.2	-15487342.3	-58008366.5					
8B11	150	7609042.18	626631.94	4375400.33	-4375400.33	5321665.51	12116161	2927760.26	10613340.2	2937619.67					
	500	11951098.9	-338857.15	2486984.95	-2486984.95	13799135.3	14639767.6	9017099.16	12994286.5	8517693.58					
	950	15636560.9	-222282.44	698569.62	-698569.62	18410621.2	19838930.1	15581930.9	14610417.5	13535992.2					
8B12	150	7809571.64	-402660.97	4040614.61	-4040614.61	5466086.42	12396200.4	2950409.76	11016067.5	2942251.02					
	500	12147905.6	-314843.52	2516210.36	-2516210.36	14073727.1	14896744.7	9016802.92	12196804.4	8669426.76					
	950	15972946.6	-220226.07	489606.5	-489606.5	18615174.1	17077777.1	16049163.4	14016477.7	13934925					
8B13	150	-2118483.12	36042.22	1238062.25	-1238062.25	3224560.77	-1193760.036	2461666.74	3020991.73	-792377.863					
	1375	4540103.6	1026856.15	-607676.19	607676.19	7988464.4	6009499.05	5374602.05	5539191.95	1630001.99					
	2600	5895482.59	-1662513.06	22710.91	-22710.91	4080660.21	4746973.61	4699260.7	5028574.16	5295494.51					
8B14	150	-2486047.06	3362979.72	-2525386.31	2525386.31	2405351.06	-2071704.2	2231807.06	-4491660.83	64035.725					
	1375	4499679.35	882106.19	-1466317.82	1466317.82	8818864.92	4018609.36	7097772.06	2729928	5389248.63					
	2600	8161279.8	-1568787.43	-407247.99	407247.99	4351507.99	4640048.28	5095569.06	5178623.72	6911675.1					

8B15	0	-12411778,1	-2811722,88	-11620999,4	-11620999,4	10869007,1	29114610,1	-2704241,06	-21729741,2	916550,07
	3600	34310680,1	4456940,07	-18774,16	18774,16	48929520,2	40751150,6	40000560,4	31318014,4	31086706,1
	7000	10460052,7	898767,69	11686436,7	-11686436,7	14146924	24004150	217102,264	10850761,2	-1004817,39
8B16	160	-10027808,4	-3107235,8	-9756177,36	9756177,36	-21645027,4	-20617603,7	-8741647,15	-20144687,5	-4005067,49
	3600	28106060,1	3455942,26	5620,25	-5620,25	39271760	32780072	32792464,5	35290477	26000417,6
	6650	3976686,99	225019,79	8744137,8	-8744137,8	5112575,05	10559780	-4790296,44	11148742,1	-4706705,55
8B17	160	-14818179,7	-1764861,6	-9217579,61	9217579,68	-23562074	23650111,4	-8454195,14	-21659103,4	-5031540,11
	3600	28021071,4	3305310,34	-77021,76	77021,76	39042705,4	32541211,4	32702951,1	31750006,6	20280084,1
	6950	5008702,46	440431,95	9083506,04	-9083506,04	6889574,68	16316060,6	-3749,482,08	10680014,8	-2087060,23
8B18	0	-14674206,7	-1791140,6	-12480859,1	12480858,1	-23814973,8	-22069538,6	-6095524,7	-24815721,1	-2150994,84
	3500	24461208,4	4011058,5	-168332,26	168332,16	49246311,7	40077261,0	40450749,1	33049623,6	31162966,6
	7000	12040016,3	1656970,72	11144294,9	-11144294,9	16990170,2	28817064,8	1114245,16	11510900,5	-48050,245
8B19	160	1250002,61	-3570226,26	-10627841,8	10627841,8	-46182150,48	-21124456,2	-6614236,2	10507444,1	14002560,6
	2111	8740409	999102,91	3109715,77	-3109715,77	11911105,5	1776030,1,6	8762458,51	10655111,1	5057513,91
	4105	2440367,36	6604440,61	20147017,7	-20147017,7	11696796,0	25316145,5	-19590039,7	26791248	21310623,7
8B2	260	-5603701,86	-62147,9	8231026,65	-8231026,65	-4802910,1	4660829,89	-13402270,0	4217564,39	-10508293,1
	300	16.5060,95	767306,77	8191662,29	8181662,29	2454055,17	10677091,1	-6525399,87	9024661,01	5720401,3
	360	7199165,96	365125,44	8152298,72	-8152298,72	9220919,84	10464120,6	-666666,867	13016318,1	-357319,404
8B20	150	-937124,92	-1866346,93	14323144,4	14323144,4	6711507,79	-17593024,8	10311793,5	-13347302,4	11100427,5
	2105	7710695,56	1267003,54	5733269,74	-5733269,74	11283508,4	16216518,5	3278460,05	12102189,9	1782204,02
	4100	25790889,29	5400656,86	24804860,9	-24804860,9	11738876,6	30657195,5	-19232540,5	24645846,9	20001685,1
8B21	160	-8410637,11	-4079557,62	-14230051,2	14230051,2	-14292056,8	-30641231,8	14792419,9	-27620891,3	16083744,4
	500	2041242,83	-2080052,09	-10091141,3	10091141,3	-2118691,92	-21449042,6	22530364,1	-15004809,5	20099146,7
	850	10629920,6	-2153646,46	-15751927,1	15751927,1	8198981,1	7619040,06	26659700,8	-4700697,81	23662771
8B22	150	-5374973,56	-1570766,1	-8509727,84	8509727,84	-9560179,00	-15619801	1313627,48	-12974201,3	2098279,96
	500	730267,18	-266716,06	-5726909,47	5726909,47	5085026,104	-6052402,6	7964170,28	-4494105,06	5914105,97
	850	6977063,77	-206776,97	2914150,49	2914150,49	7095234,97	4049260,66	10161960,7	2665021,95	6802092,80
8B23	0	-11089176,0	2568005,97	-11679584,3	11679584,3	-17575819,9	-25427413,2	-1902308,9	-20490983,6	630468,1
	625	-50150973	-7690616,87	17376913,7	17376913,7	-72466504,3	-78177489,0	-41695970,6	-60775096	-29496652,4
	1250	-91290630	-12057860,5	-23075241,9	23075241,9	-110223604	-132274210	-99976217,1	-102567826	-81339339,5
8B24	0	-6325254,66	-797094,71	-1804630,78	1804630,76	-8856867,13	-9373602,06	-6416011,42	-7788600,8	-2086846,79
	575	6760630,07	-594556,51	-4981625,87	4981025,87	7161465,67	1306098,72	11757512,6	1801105,98	10566030,2
	1350	16757101,0	-957370,94	-8078717,72	8078717,72	18576792,2	9207026,07	26172902,3	7610545,19	22062207,1
8B25	250	-78166619	-6640607,8	-10314027	10314027	-100251467	-96028322,1	-74069365,4	-77921591,4	-59267042,8
	800	-30295529,9	-2014609,42	-8497025,48	8497025,48	-39578011	-47636889	-24792236,6	-34910390,8	-10619664
	1350	10427300,9	1703109,05	-6660023,88	6660023,88	17677735,5	8127078,91	22155129,1	6072549,01	18096692,3
8B26	250	-50207285	666252,16	7098840,39	7098840,39	-59215522,4	-69671423,8	-44683369	-51801512,9	-38924600,1
	800	-11296491,1	1702048,79	-5480467,6	5480467,6	-9332031,26	-15062076,5	-3550115,57	-15099250,9	-5234430,15
	1350	25607144,2	4228236,5	-3862074,81	3862074,81	37533750	23817606,6	34927862,0	19480062,4	26432297,1
8B27	250	-63040774	600798,92	-7265610,9	7265610,9	-82639063,7	-62725604,2	-47467816	-54275749,1	-41197644,1
	800	-13630935,2	2681120,19	-5638449,77	5638449,77	-12265713,9	-17893016,2	-8053271,67	-17613446,6	-7264236,99
	1350	22261744,6	4026262,47	-4011286,24	4011286,24	34680514,9	24009805,1	32733606,2	17326410,4	24646727,8
8B28	250	-76402927	-5669529,49	-10684742,8	10684742,8	-100136752	-98890302,4	-76467341,6	-80178987,4	-60945060,4
	800	-32665245	-2060166,29	-8764794,17	8764794,17	-42416142,6	-45367957,9	-26961890,1	-37197026,3	-21420406,7
	1350	11036271,2	1073017,47	-6844844,92	6844844,92	15066766,8	5624020,41	18898794,2	3951063,8	16182104,5
8B29	0	-6649544,36	919267,78	-2012379,21	2012379,21	-9449081,56	-9962677,7	-5736681,05	-7794831,12	-4172648,66
	675	5818360,71	-986042,28	-5390250,65	5390250,65	6400026,2	-460146,042	10318334,6	396206,064	10037762,9
	1350	18186962,2	-1613929,29	-8768128,1	8768128,1	15640135,9	5218277,18	20631346,2	5784951,69	21557592,0
8B3	0	11669517,9	1184302,28	11636225,4	-11636225,4	16258306,1	25604146	1470172,78	21244269,9	300561,25
	625	15232206	1637877,05	17082392,8	-17082392,8	-20900645,0	708727,399	-35794297,5	1974242,04	29264065
	1250	-44452225	-4702225,06	23129561,5	-23129561,5	-50967930,1	28900044,0	-76406423,6	-19190097,2	-60823607,9
8B30	0	-10620142,3	-3678616,87	-12564106,2	12664106,2	-21967477,4	-20785720,2	-4401097,15	-21489023,7	-870902,49
	625	-63825281	-9068694,2	-18667081,2	18667081,2	-79084071,9	-84877657,4	-45476166,9	-65240396	-31642109,8
	1250	-95101662	-14781921,1	-24770666,1	24770666,1	-139808897	-140916244	-88897868,7	-108812077	-84224838,1
8B31	250	-27347422,8	-5470818,64	-34002441	34002441	-41670217,7	-69687280,9	1817846,16	-55214977,4	5989516,38
	300	-21158561,5	-5206042,48	-33421956	33421956	-33733165,8	-62231163,5	7954942,03	-49122482,9	11007036,2
	350	-14480921,1	-4946166,06	-32841468	32841468	-25690980	-54887646	14079436,8	-43040159,2	16074463,2
8B32	250	-25776590,6	-3760718,09	-23238006,9	23238006,9	-36920068,4	-55209756,5	-6209941,97	-44113137,9	-2284726,51
	300	-19704064,7	-3506461,43	-22758872	22758872	29256216,9	-47898689,6	-100068,268	-38216640	2749326,57
	360	-13642730,6	-3263104,44	-22278730,8	22278730,8	-21592243,8	-40902227,4	5985225,75	-32330220,2	7773308,1
8B33	0	40398899,8	7776609,4	207568,38	-207568,38	61521388,4	50610707,3	50074513,7	39098871,4	35622198,0
	2125	13040288,7	2647298,8	85141,28	-85141,28	19384167,2	19287470,4	13104673,7	11812869	11659614,7
	4250	-47831706	-9117931,78	-37285,82	37285,82	-72007809,8	-60688398,9	-59810090,7	-43082145,7	-43015011,3
8B34	0	40889300,5	7777620,93	222069,93	-222069,93	61510168,4	50615761,9	50040406	36900940,6	35699614,7
	2125	13211790,9	2685540,44	66416,79	-66416,79	20151017,4	16479967	18040461,7	11950389,6	11830839,4
	4250	-47478122	-9062607,62	-89236,38	89236,38	-71457966,6	-59500466,6	-63310072,5	-42810612,5	-42640987,1
8B35	150	-2082477	-317466,15	-4504395,97	4504395,97	-3451045,48	-7817719,66	3566674,55	-5204742,07	1927702,67
	1025	1691206,08	1172291,53	3967036,91	-3967036,91	2705096,56	6943960,15	-1066617,37	5002417,8	-2108248,84
	1600	-3560524,98	1400606,46	12409469,3	-12408469,8	-2002011,52	10676707,4	-16607079,2	8017160,42	-14426095,2
8B36	250	-55559186	-9092312,23	9249914,51	-9249914,51	-66819322,8	-38321392,0	-65746210,1	-24577444,3	-41227290,5
	1600	-10571245,9	2181911,46	4079515,01	-4079515,01	-18144094,6	-8859230,31	-17426211,8	-5849658,7	-10186836,7
	2700	607065,77	220751,76	-1090894,04	1090894,04	1082400,01	294760,567	1402057,66	-404696,713	1528695,1
8B37	0	3106066,66	666992,01	577161,65	-577161,65	4775569,89	4405251,51	3274240,04	3014013,48	2276140,51
	1250	-34039847	7373096,12	-901665,91	901665,91	-62644770,2	-40656059,4	-41751771	-31447271,6	-29624463
	2500	-85902800	-18950621,8	-2390283,47	2390283,47	-133512362	-110700082	-105701496	-79536780,5	-75251270,0
8B38	0	2502931,24	722048,16	206374,5	-206374,5	4159764,54	3527573,54	3084287,09	2438375,17	2066901,07
	1250	-18028148,7	-2451914,02	3367922,61	-3367922,61	-26672939,6	-17177944	-25000381,6	-12726201,7	-18724402,4
	2500	-53267249	-8164614,74	7589470,41	-7589470,41	-78750562,4	-56776861,8	-73672749,8	-44316008,7	-54843047,5
8B39	150	-8613721,72	-1661576,93	-6567306,41	6567306,41	-12874967,8	-10344799,2	4674304,88	-12062961,4	-2860747,88
	1325	5162018,83	4052324,0	5349539,65	-5349539,65	12679142,7	14866583,9	3832660,65	9460400,63	-168767,839
	2500	5450015,28	6514808,01	16256414,1	-16256414,1	18603866,8	28948130,5	-5190139,14	19535786,5	-9725758,89
8B4	150	24872006,1	7584916,36	8001764,48	-8001764,48	45742309,9	47250264,6	30446540,1	36408420,5	24003244,4
	925	17367837,1	1432272,23	4991542,41	-4991542,41	23133040	14830950,7	14043501,5	20123631,5	11128676,2
	1500	-3025774,60	286703,4	1981520,64	-1981520,64	4088056	-1388456,4	-5627549,75	-939828,59	-4606565,74
8B40	150	-253062,8	716050,98	-2730071,03	2730071,03	945210,975	-2458879,63	3232669,63	-2687620,46	2232007,41
	1325	-2032628,17	-180300,18	-1597949,93	1597949,93	-2732434,06	-3086326,88	-629630,903	-3267620,29	-391210,418

	2600	-171999939.1	-4105900.07	-4905015.56	-4905838.56	-315017495	22840407.2	-2107148[illegible].2	-1[illegible]4[illegible].6	-14[illegible]80.6			
6E41	0	1451081.82	41[illegible]7.6[illegible]	66[illegible]4	-66[illegible]4	3[illegible]7[illegible]7	[illegible]4[illegible]6.14	1047009.97	1[illegible]6[illegible]6.16	1249198.09			
	1[illegible]5	6[illegible]6[illegible].82	1[illegible]2[illegible]6.69	-1[illegible]4[illegible]4	1[illegible]4[illegible]4	9[illegible]6[illegible]7.62	7[illegible]7[illegible]9.26	7[illegible]7[illegible]5.69	6[illegible]6[illegible]7.64	6[illegible]2[illegible]9.26			
	3750	-7[illegible]4[illegible]9.01	-1[illegible]7[illegible]4.62	-[illegible]4[illegible]4.62	2[illegible]4[illegible]4.62	-1[illegible]7[illegible]4	3[illegible]4[illegible]1.2	3[illegible]6[illegible]6.64	-[illegible]6[illegible]8.22	-[illegible]4[illegible]5.36			
8B42	150	-[illegible]4[illegible]2.62	6[illegible]7.47	[illegible]4[illegible]9.76	[illegible]6[illegible]5.76	3[illegible]4[illegible]4.8[illegible]	[illegible]4[illegible]6.4[illegible]	[illegible]4[illegible]5.[illegible]	[illegible]4[illegible]9.[illegible]	[illegible]6[illegible]3.92			
	1[illegible]5	1[illegible]5[illegible].69	[illegible]1[illegible].10	[illegible]2[illegible].87	[illegible]1[illegible].87	1[illegible]9[illegible].89	[illegible]9[illegible]4.68	-2[illegible]6[illegible].71	-[illegible]6[illegible].89	-1[illegible]4[illegible].81			
	2500	-1[illegible]9[illegible].8	-[illegible]4[illegible].58	[illegible]0[illegible].63	-[illegible]5[illegible].83	-[illegible]1[illegible]	-1[illegible]4[illegible]	-[illegible]6[illegible].81	-[illegible]7[illegible].62	-1[illegible]7[illegible].6			
8B43	150	-[illegible]1[illegible].66	-[illegible]7[illegible].19	[illegible]9[illegible].6	[illegible]9[illegible].6	[illegible]7[illegible]	[illegible]7[illegible].2	-[illegible]1[illegible].67	-[illegible]4[illegible].1	[illegible]0[illegible].67			
	1[illegible]5	[illegible]9[illegible].74	[illegible]1[illegible].04	[illegible]7[illegible].4	[illegible]7[illegible].4	1[illegible]4[illegible]	1[illegible]4[illegible].71	1[illegible]5[illegible].40	[illegible]0[illegible].03	[illegible]6[illegible].89			
	2500	-[illegible]1[illegible].1	[illegible]1[illegible].83	[illegible]9[illegible].4	-[illegible]9[illegible].4	[illegible]2[illegible].1	[illegible]3[illegible].71	-[illegible]3[illegible].13	[illegible]0[illegible].7	[illegible]1[illegible].76			
8B44	0	[illegible]1[illegible].59	[illegible]7.01	[illegible]1[illegible].04	-[illegible]1[illegible].04	[illegible]6[illegible].72	[illegible]6[illegible].04	[illegible]1[illegible].95	[illegible]6[illegible].67	[illegible]6[illegible].6			
	1[illegible]5	[illegible]9[illegible].9	-[illegible]6[illegible].25	[illegible]6[illegible].25	-[illegible]6[illegible].25	[illegible]6[illegible].4	[illegible]9[illegible].4	[illegible]6[illegible].6	-[illegible]6[illegible].6	[illegible]6[illegible].6			
	1500	-[illegible]4[illegible].7	[illegible]4[illegible].85	[illegible]4[illegible].85	[illegible]4[illegible].85	[illegible]4[illegible].85	[illegible]4[illegible].4	[illegible]4[illegible].3	[illegible]4[illegible].3	[illegible]4[illegible].3			
8B45	250	-[illegible]2[illegible].2	[illegible]1[illegible].5	[illegible]9[illegible].25	-[illegible]9[illegible].25	-[illegible]6[illegible]	[illegible]4[illegible].4	-[illegible]6[illegible].9	-[illegible]6[illegible].7	-[illegible]1[illegible].4			
	1500	-[illegible]1[illegible].4	-[illegible]7[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	-[illegible]7[illegible].9	-[illegible]9[illegible].7	-[illegible]1[illegible].9	-[illegible]7[illegible].4	-[illegible]1[illegible].7			
	2750	[illegible]1[illegible].[illegible]	[illegible]1[illegible].9	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8B47	150	-[illegible]6[illegible].99	-[illegible]7[illegible].99	-[illegible]4[illegible].[illegible]	-[illegible]4[illegible].[illegible]	-[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	1[illegible]5	[illegible]4[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]8[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	2500	-[illegible]4[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8B5	150	[illegible]0[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]1[illegible].[illegible]			
	700	-[illegible]5[illegible].56	[illegible]8[illegible].4	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]4[illegible].23	[illegible]5[illegible].29	[illegible]0[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	1[illegible]0	[illegible]7[illegible].[illegible]	-[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8B6	150	[illegible]5[illegible].4	[illegible]0[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	700	-[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	1[illegible]0	-[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8B7	150	[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]1[illegible].[illegible]			
	700	[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]2[illegible].[illegible]			
	1[illegible]0	-[illegible]5[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
8B8	150	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]			
	700	-[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]			
	1[illegible]0	-[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
8B9	150	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	700	-[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	1[illegible]0	-[illegible]7[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			

8CY1	0	38077660.9	[illegible]7[illegible].66	-[illegible]1[illegible].72	[illegible]1[illegible].72	45935623.2	[illegible]9[illegible]4.2	40573389.8	[illegible]4[illegible].1	24937302.3	53397021	51621288.4	
	1500	-2263701.76	[illegible]6[illegible].41	-[illegible]2[illegible].41	[illegible]2[illegible].41	[illegible]2[illegible].67	-2798075.43	-2[illegible]2[illegible].56	-2[illegible]3[illegible].86	-1[illegible]2[illegible].22	-5181619.25	-1496[illegible]1	
	7[illegible]0	-4[illegible]8[illegible]2	-[illegible]9[illegible].16	-[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	-[illegible]7[illegible].[illegible]	-[illegible]1[illegible].[illegible]	-[illegible]0[illegible].4	[illegible]6[illegible].[illegible]	-[illegible]4[illegible].[illegible]			
8CY10	150	-[illegible]1[illegible].2	[illegible]6[illegible].61	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	3500	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]			
	6[illegible]0	-[illegible]9[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]3[illegible].[illegible]			
8CY11	150	-[illegible]6[illegible].[illegible]	-[illegible]1[illegible].[illegible]	-[illegible]3[illegible].[illegible]	-[illegible]3[illegible].[illegible]	-[illegible]6[illegible].[illegible]	-[illegible]1[illegible].[illegible]	-[illegible]3[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	3500	[illegible]6[illegible].[illegible]	-[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]			
	6[illegible]0	[illegible]9[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]			
8CY12	150	-[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]			
	3500	[illegible]7[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]			
	6[illegible]0	-[illegible]6[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]			
8CY13	150	[illegible]0[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	3500	-[illegible]1[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	6[illegible]0	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8CY14	150	-[illegible]2[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	3500	[illegible]6[illegible].[illegible]	-[illegible]2[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	6[illegible]0	-[illegible]4[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8CY15	0	17784417.6	[illegible]5[illegible].66	-[illegible]4[illegible].42	[illegible]4[illegible].42	2[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	1200	20029507.5	-227921.[illegible]	[illegible]2[illegible].64	-[illegible]2[illegible].64	23670734.6	20819900.8	20812210.3	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	2400	[illegible]9[illegible].[illegible]	-[illegible]4[illegible].41	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	22401674.1	20412307.6	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8CY16	150	-27045214.7	-[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	12[illegible]	-[illegible]2[illegible].64	-[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	-[illegible]4[illegible].[illegible]	-[illegible]5[illegible].[illegible]	[illegible]5[illegible].[illegible]	-[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	2[illegible]0	[illegible]7[illegible].[illegible]	-[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]			
8CY17	150	-[illegible]7[illegible].[illegible]	-[illegible]2[illegible].[illegible]	-[illegible]8[illegible].[illegible]	-[illegible]8[illegible].[illegible]	-[illegible]2[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	1225	-[illegible]9[illegible].[illegible]	-[illegible]5[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]2[illegible].[illegible]	-[illegible]8[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	2[illegible]0	17784417.6	[illegible]5[illegible].66	-[illegible]4[illegible].42	[illegible]4[illegible].42	2[illegible]7[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8CY18	150	-[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]			
	[illegible]0	[illegible]7[illegible].[illegible]	-[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	-[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	-[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	6[illegible]0	[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	3150	42629424.4	-[illegible]9[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
8CY2	0	38419576.8	-[illegible]8[illegible].[illegible]	-[illegible]7[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	1[illegible]0	-[illegible]6[illegible].[illegible]	[illegible]7[illegible].[illegible]	-[illegible]3[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]			
	2700	[illegible]7[illegible].[illegible]	-[illegible]7[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]			
8CY20	0	[illegible]6[illegible].[illegible]	-[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]8[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]			
	1[illegible]0	[illegible]4[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]			
	2700	[illegible]4[illegible].[illegible]	-[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]			
8CY21	0	[illegible]4[illegible].[illegible]	-[illegible]5[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]			
	1500	-[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]0[illegible].[illegible]	[illegible]7[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
	3000	-[illegible]5[illegible].[illegible]	-[illegible]6[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]1[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]6[illegible].[illegible]			
8CY22	150	[illegible]7[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]5[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]3[illegible].[illegible]			
	500	-[illegible]9[illegible].[illegible]	[illegible]6[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]4[illegible].[illegible]	[illegible]2[illegible].[illegible]	-[illegible]4[illegible].[illegible]	-[illegible]2[illegible].[illegible]	[illegible]3[illegible].[illegible]	[illegible]3[illegible].[illegible]			
	6[illegible]	-[illegible]9[illegible].[illegible]	-[illegible]5[illegible].[illegible]	[illegible]9[illegible].[illegible]	[illegible]9[illegible].[illegible]	-[illegible]1[illegible].[illegible]	[illegible]8[illegible].[illegible]	[illegible]6[illegible].[illegible]	-[illegible]6[illegible].[illegible]	-[illegible]7[illegible].[illegible]			
8CY3	150	-[illegible]4[illegible].[illegible]	-[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	-[illegible]7[illegible].[illegible]	-[illegible]5[illegible].[illegible]	-[illegible]5[illegible].[illegible]	-[illegible]4[illegible].[illegible]	-[illegible]4[illegible].[illegible]			
	1[illegible]0	-[illegible]7[illegible].[illegible]	-[illegible]6[illegible].[illegible]	-[illegible]2[illegible].[illegible]	[illegible]3[illegible].[illegible]	-[illegible]7[illegible].[illegible]	-[illegible]2[illegible].[illegible]	-[illegible]2[illegible].[illegible]	-[illegible]2[illegible].[illegible]	-[illegible]1[illegible].[illegible]			
	2150	38419576.8	-[illegible]8[illegible].[illegible]	[illegible]2[illegible].[illegible]	[illegible]2[illegible].[illegible]	45934178.4	39932913	40619071.6	34283551.2	24871687.1			

8CY4	150	9880722,16	828827,26	-7419571,12	7419571,12	119861270,4	-1089006,11	-9031905,18	-8863111,43	-7027568,67					
	500	-2640740,37	350197,14	963477,9	-963477,9	-2618179,42	1458458,05	-3462001,67	-1618546,22	-3361086,44					
	350	3267902,19	1526013,68	2663112,93	-2663112,93	5930680,34	7710000,0	7104863,05	5370070,6	566667,025					
8CY5	100	2491210,1	1513799,76	2670046,39	-2670046,39	5958599,01	7330622,77	1722160,35	5069716,02	252492,519					
	600	-2808245,49	336542,82	920378,42	-920378,42	-2927745,09	-1748419,46	-3691211,14	1771080,38	3427761,62					
	950	901610,3	636024,14	-829939,47	829939,47	-12180411	-111204465,1	-9037822,19	-8861624,79	-7267730,76					
8CY6	0	18661131,2	-127255,25	639656,16	-639656,16	22367589,9	20291845,7	18949829,9	17496168,4	16045669,1					
	1075	-1221441,59	28384,95	1216720,59	-1216720,59	-1611005,57	-1135703,675	-2691646,62	94248,9	2284340,95					
	2150	-24168695,2	70685,37	1794395,95	-1794395,95	29886902,8	25424090,8	-27142007,1	-20135052,2	-23364048,9					
8CY7	0	18691955	-104702,41	662170,68	-662170,68	22491634,1	20412207,5	19042768,8	17660717,6	16460661,3					
	1075	-1219889,29	6572,45	1233629,53	-1233629,53	-1442627,26	26004,1993	-2660407,81	20394,215	-2156968,94					
	2150	-24026345,6	117477,27	1814980,21	-1814980,21	-28643012,9	-20211,1449	-27852359,6	-19998317	-23257106,9					
8CY8	0	17770009,7	-248423,87	650616,38	-650616,38	21786870,4	19588101,4	18013396,6	16407444	16073660,6					
	1200	19981690,2	207689,56	-5780,62	5780,62	23597645	20758109,5	20762249,6	17973499,7	17998900,9					
	2400	19601131,9	127356,26	676655,16	-676655,16	22357649,3	20201946,7	18949829,9	17496168,4	16045669,1					
8CY9	150	-1005935,9	-2041529,64	-2017267,78	2017267,78	-11927471,9	-2121510,2	-10049573,9	-10551355,5	-6960361,53					
	3600	3441149,69	1244761,21	362023,42	-362023,42	2741060,09	3584012,3	3546021,48	3223184,64	3876276,8					
	6650	-5501052,23	-447894,58	-4591560,82	4591560,82	-7316054,47	-1078321,12	-11020598,9	-8165342,251	-9083051,75					
8D1	125	-16939186,9	-4021267,17	-4099170,86	4099170,86	-26550649,8	-2618402,8	-16918058,7	-16000622,2	-10355119,3	26384763,9	50965401,1			
	1250	-8200967,23	-1319826,02	-722962,9	722962,9	-9991610,37	-1009726,1	-5417445,28	-4766606,75	-3515105,36	-12466678	8/1803480,1			
	2375	-3980820,08	-1512046,53	-56962,16	56962,16	-7066105,84	-557486,9	-6473011,02	-3965562,83	-3448014,11					
8D10	0	8999169,46	3052061,98	4281281,57	-4281281,57	15663742,2	16029522,5	7003031,24	11952405,9	4246099,1					
	2187,5	4096001,92	1037439,3	-457624,68	457624,68	6676104,73	4500676,27	5761668,1	3274539,52	4098263,94					
	4375	-30060421	-7963046,19	-5196631,01	5196631,01	-49177377,5	-9485937,5	33947182,2	-32091256,8	-22647501					
8D11	0	-7119189,95	-2551620,87	-1020035,12	1020035,12	-12614831,3	-10343212,5	-9805639,79	-7317453,55	-5403878,05					
	2250	12905191,9	2966197,54	1156119,63	-1156119,63	20560146,3	17670035,6	15742482,9	12727160,3	10646165,1					
	4500	2014882,81	1210733,82	3332564,18	-3332564,18	4364865,45	6756765,3	2296231,575	-2512551,29	-1186084,23					
8D12	0	4110513,32	1519044,31	3025790,91	-3025790,91	7623066,9	9023116,37	2866950,4	6922672,82	970250,16					
	2250	12974467	2934559,47	1059946,08	-1059946,08	20144791,5	17404052,7	15179458,5	12540917,9	10633014,5					
	4500	-9427579,61	-3062947,57	-805898,81	805898,81	-19210381,6	-13744037,8	-11942250,9	-9400130,69	-7989512,79					
8D13	0	9010924,84	2215681,73	3856849,97	-3856849,97	14353203,6	15604764,2	7505820,24	11550268,3	4639856,38					
	2437,5	12945679,5	6786799,26	587819,69	-587819,69	26164733,8	20536024,3	19347202,9	12152140,3	11140072,8					
	4875	-20369832,7	-7480188,74	-2721000,67	2721000,67	-35498829,2	-13213669,6	-25604758,1	-20799570	-15901765,8					
8D2	0	8402631,6	1913667,95	3488274,05	-3488274,05	10730941	12226284,1	4899906,66	8926727,72	2649832,75					
	1187,5	-4161101,7	-1329832,36	-966340,66	966340,66	-5966100,94	-6656001,05	-1569867,12	-4894706,24	-2957376,87					
	2375	-22812799,2	-6211483,04	-5460974,18	5460974,18	-37145251,9	-19575793,5	-24107747,7	-25446036	-15815282,5					
8D3	0	-1784606,14	-136736,9	2047368,97	-2047368,97	-2336749,61	1667320,461	-4122154,38	254216,647	-3431047,6					
	2250	13096694,7	3372345,77	1219886,29	-1219886,29	21473106,8	18553972,2	15974311	13153932,8	10959937,6					
	4500	-2507735,26	400003,7	390403,51	-390403,51	-3897346,01	-2629802,44	-3449449,92	-1900642,58	-2508369,89					
8D4	0	-9801444,23	-819131,4	-190188,28	190188,28	-5018379,51	-4179041,9	-3772646,68	-2987359,39	-2495030,52					
	2250	16194705,8	4036287,78	1843020,62	-1843020,62	25890937,9	22534912,4	19092569,1	16053953,6	13096516,7					
	4500	4295974,12	1676835,02	3476229,45	-3476229,45	7826624,99	9704639,25	2434557,511	6685583,22	728770,212					
8D5	0	10705129	3073518,33	4289897,7	-4289897,7	16243782,7	18902761,7	9023966,5	13495123,1	5770707,22					
	2187,5	4668983,45	1215313,65	-370525,01	370525,01	7416281,3	6648368,27	6324980,73	5208312,82	4436667,64					
	4375	-31140415,3	-7927840,89	-5030947,42	5030947,42	-50853043,8	-45471740,5	-34906750,9	-32554226,4	-23498521,1					
8D6	125	-19931119,7	-5011963,74	-4199049,12	4199049,12	-31936309,6	-30027579	-21254676,9	-21717151,9	-14158860,6					
	2250	-9680054,4	-1966891,09	-1201936,77	1201936,77	-13569575	-12236447,1	-9712079,69	-8893791,05	-6739305,87					
	4375	-26621758,4	-5599940,29	-1795176,73	1795176,73	-39578014,7	-30200136,5	-33969999,5	-21393924,4	-24566240,7					
8D7	0	33019982,1	6937138,99	526616,2	-526616,2	50327368,9	41641116,8	40407321,9	30181949,4	29235840,2					
	2187,5	10993035,3	3109732,55	661762,34	-661762,34	21787214,5	18326224,3	16936544,4	13199398,9	11998154,7					
	4375	-34677088	-7483687,29	-797088,07	797088,07	-55402772,5	-42520072,2	-44105907,5	-30401259,2	-31807468,9					
8D8	0	33020476,2	6696183,42	511114,67	-511114,67	50208480,9	41636079,2	40462702,4	30178431,9	29258426,4					
	2187,5	14003369	3129884,7	661237,66	-661237,66	21811952,7	18365571,3	16966972,2	13198137	12007909,2					
	4375	-34687011	-7421377,78	811360,69	-811360,69	-53364617,8	-42468634,8	-44160492,3	-30380095,3	-31840534,5					
8D9	125	-19407406,6	-5021366,76	-4284380,86	4284380,86	-31750456,3	-29850079,9	-20855864,8	-21349618,4	-13837747,5					
	2250	-8543825,19	-1978725,87	-1241950,31	1241950,31	-13414151,6	-12142020,2	9503924,67	-8806297,95	-6670767,39					
	4375	-25740982,8	-5601651,41	-1800480,23	1800480,23	-39651021,6	-30431095,1	-34212099,8	-21546449,6	-24787319,6					
8F1	0	-909866,5	-9449,11	-74670,89	74670,89	-961708,578	-2249031,881	-787280,598	-700297,215	-668970,885	11347937,9	50939480,9			
	1875	1469891,94	-82771,49	-26368,73	26368,73	1661330,94	1495486,31	1509759,55	1309778,89	1345734,6	-3920090,65	-53492772,5			
	3750	-1223037,31	-119094,87	23938,39	-23938,39	-1658196,56	-1371698,52	-1421868,14	-1179186,03	-1122278,13					
8F10	225	-68176809,46	-9019810,13	83680,12	-83680,12	9524027,55	-7922836,37	-8098564,62	-8050389,4	-6211180,81					
	1237,5	1578637,65	452012,11	426,87	-426,87	2617684,68	2086168,24	2084273,71	1421157,25	1420090,51					
	2250	6157202,47	912134,37	-82928,17	82928,17	8894065,16	7271556,29	7445505,46	5493942,27	5643032,98					
8F11	0	6094079,94	920582,46	-9152,32	9152,32	9866820,86	8206188,13	8222286	6257039,46	6002000,83					
	1000	2214988,52	298295,58	-116975,75	116975,75	3136559,09	2403092,91	2731082,01	1695461,55	2099466,03					
	2000	-8671229,52	-2113007,02	-226199,21	226199,21	-10786286,7	-11338041,8	-13665123,6	-9005785,88	-7681427,28					
8F12	0	1223037,31	119094,87	-23938,39	23938,39	1658196,56	1371698,52	1421868,14	1179186,03	1122278,13					
	625	-2452968,59	51926,82	-7502,68	7502,68	-2860665,02	-2534540,62	-2518784,99	-2214442,14	-2200937,22					
	1250	-7420978,32	-287665,52	6903,05	-6903,05	-9361638,82	-8064025,47	-8082764,83	-6670780,78	-6668690,22					
8F13	0	1190518,06	116690,04	-27135,59	27135,59	1615025,77	1331820,71	1388808,45	1047644,25	1095888,31					
	625	-2402148,71	49151,9	-11178,06	11178,06	-2899935,41	-2571544,56	-2548070,64	-2243894,09	-2223873,69					
	1250	-7446678,96	-300805,13	4779,48	-4779,48	-9417087,76	-8098258,14	-8103205,04	-6697709,52	-6708312,6					
8F14	0	6099260,67	917818,09	-12426,36	12426,36	9747612,23	8095512,3	8124611,86	6199149,09	6220520,13					
	1000	2325967,08	315576,63	-90323,31	90323,31	3296871,1	2642465,37	2838464,32	2000370,09	2177362,05					
	2000	-8364479,03	-2077680,83	-174218,26	174218,26	-13346604,6	-10818640,8	-10962682,5	-7870827,83	-7362204,98					
8F15	225	-7937661,14	-932261,2	-31071,07	31071,07	-10294883,2	-9540055,62	-8613006,54	-8566021,34	-6822650,71					
	1237,5	1282381,76	434419,63	-24961,06	24961,06	2233939,94	1730804,77	1783269,18	1131667,86	1176637,35					
	2250	6104768,9	913089,48	-81607,98	81607,98	9787192,25	7188059,08	7258238,84	5421046,83	5567217,19					
8F16	225	-7139662,02	-1106963,82	-31256,3	31256,3	-10481109,7	-9569841,66	-8693987,42	-8456827,39	-6897548,05					
	2250	5131535,91	749769,27	21391,83	-21391,83	7357459,54	6119097,59	6074174,75	4637634,98	4698129,83					
	4275	-7404061,92	-937206,98	74049,95	-74049,95	-10086473,5	-8533107,66	-8139612,56	-6697811,77	-6721101,68					
8F17	0	7650995,94	930378,6	1463107,44	-1463107,44	9649800,89	9787516,03	8714990,7	8200893,04	5669099,85					
	1687,5	4740290,81	787689,43	77610,12	-77610,12	6948620,06	5803140,59	5940162,34	4336110,84	4196412,82					
	3375	-7901828,69	-954989,75	-1307987,15	1307987,15	-11118178	-10667166,9	-7920903,93	-9366744,26	-8016547,99					

8F18	225	-14168806	1818251.83	-1875217.06	1875217.06	-190112446.7	17224093.3	-16487107.6	-13721127.6	-11784726.7		
	612.5	76327.86	-187397.16	1011329.46	-1011329.46	-1037708.87	661580.615	-1494375.47	-325709.981	-1048101.4		
	1000	13183737.9	1161201.21	-1277975.96	1277975.96	1646407.4	15967629.6	11914290.1	10849962.4	9279775.71		
8F19	0	-9993216.64	-704031.01	2257998.3	-2257998.3	-110152789.8	-3107402.82	-12479004.6	-6952005.56	-10126732.4		
	425	1712172.11	177696.21	-241215.6	241215.6	2307980.47	1211860.36	721841.91	1023963.96	1760048.85		
	850	11607723.6	933917.17	-2740084.85	2740084.85	15032265.8	10063988.9	15617267.1	7960274.86	10882427.8		
8F20	0	-1190516.89	-119690.04	27135.69	-27135.69	1615325.37	-1331823.71	1088608.48	-1047044.25	-1095960.21		
	1275	1428035.42	-60559.69	28737.61	-28737.61	1960004.12	1467947.044	1531494.75	1024436.72	1361760.39		
	2760	-794501.74	4403.94	-69809.62	69809.62	-980489.992	-310451.221	766773.019	-779600.224	-663382.908		
8F29	150	7969079.76	-1441016.39	1534662.21	-1534662.21	-11886571	6117608.37	11340550	-5790967.7	-9599359.66		
	1750	3470731.78	503769.61	-151571.14	151571.14	5130009.05	4056690.95	4070308.25	2987244.68	3260072.53		
	3150	5476679.14	430955.24	-1027904.49	1027904.49	7251547.45	4223971.84	5387446.61	3274987.12	4553035.27		
8F31	150	7432166.14	-1279161.15	170971.06	-170971.06	-10934002.5	-6858472.61	981555.13	-6576104.06	-8945553.67		
	2250	3219750.7	748274.02	1049037.38	-1049037.38	5053741.67	4229279.81	3938979.22	3013817.47	3779537.39		
	4350	-3374970.27	-1113899.9	98895.36	-98895.36	-6803282.56	-4492513.1	-4700193.33	-2966427.4	-3659479.04		
8F32	150	-5901742.72	-1144008.29	-1216125.85	1216125.85	-8949912.53	-5567181.43	-6803717.15	-5403981.71	-6244868.16		
	2250	3480823.31	758206.48	28618.51	-28618.51	5440670.46	3425644.29	4071325.06	3166697.64	3709424.32		
	4350	-3500497.12	-1159234.92	1269762.91	-1269762.91	-8855224.42	-5427709.9	-6704288.85	-5087694.77	-6293196.05		
8F33	150	6987983.03	-1137113.93	1241977.1	-1241977.1	-9500491.9	5886041.13	-6657808.32	-5065572.16	-6271414.05		
	2250	3466109.22	769169.32	24554.15	-24554.15	5407105.16	4099425.06	4046901.89	3121721.04	3687620.99		
	4350	-3496180.51	-1159146.83	1091085.39	-1291085.39	-8864811.64	-5419143.63	-6713042.45	-5035585.51	-6317646.31		
8F34	150	-7457896.24	-1276375.32	176080.66	-176080.66	-10999997	-6853041.86	-8720569.04	-6644652.07	-8366061.25		
	2250	3267041.87	749571.34	109396.46	-109396.46	5120154.29	4209843.15	3883484.61	3065398.49	3515816.66		
	4350	-5242393.93	-1106881.92	101264.2	-101264.2	6861533.83	-4242936.82	-4557555.12	-3225867.63	-3999911.64		
8F35	150	7766103.04	-1388410.52	1843138.48	-1843138.48	-11611710.6	-7113761.03	-11167625.6	-5493083.04	-8447817.87		
	1750	3419226.51	671055.95	-157418.09	157418.09	5064829.05	3904190.07	4923808.06	2847371.58	3219075.14		
	3350	5147931.9	572982.43	1957966.48	-1957966.48	6774340.12	3701932.86	7813661.71	2870988.93	5095108.56		
8F36	0	-8769136.95	-699419.8	2307205.85	-2307205.85	-11476930.2	-7349179.42	-12187046.8	-5788509.8	-9951610.33		
	425	1697662.51	187774.79	-274224.44	274224.44	2321602.56	1662596.65	2239467.37	1281180.26	1774639.26		
	850	11301807.7	941009.82	-2955554.76	2955554.76	14976226.2	9659862.26	15555427.3	7661257.53	12741506.2		
8F37	0	-14024419.2	1540221.16	-1930457.79	1930457.79	19033660.1	-13211291.7	-14151910.4	-11496099.3	-10881886.2		
	425	1462112.29	167719.02	532301.45	-532301.45	2930610.96	2058040.91	1936417.67	1226362.37	1277919.76		
	850	17084907.1	2056790.96	2997960.78	-2997960.78	23733034.1	23024798.7	16726291.1	11907441.1	12678261.7		
8F38	150	-12033648.1	-2422518.74	-1767589.24	1767589.24	-18676016.1	-7895424.5	-13365559.1	-12598308.4	-9599269.77		
	1750	3594506.72	562528.96	119672.01	-119672.01	5405389.62	4043859.64	4204647.32	3041887.52	3126278.3		
	3350	10088658.7	1670076.47	2004910.34	-2004910.34	14435611.2	14181972	9971663.95	10894314.9	7276770.93		
8F39	150	-8156995.77	-1318826.17	-276482.86	276482.86	-11000186.2	-9024079.38	-9041413.3	-7593131.66	-7092460.73		
	2250	5201147	711933.03	-144308.82	144308.82	7407889.26	5498621.2	5301570.33	4551154.35	4819910.24		
	4350	-8534854.72	1611106.76	-12132.76	12132.76	-10179599.7	-10611826.7	-10786354.9	-7909289.62	-7946449.86		
9F0	0	-7090988.33	-755640.93	-86720.32	86720.32	-9610030.55	-7501758.39	-7321745.72	-6408947.7	-6304651.12		
	875	-3246376.93	9813.26	-627119.31	627119.34	-5818704.98	-2464208.56	-3372619.99	-1977278.46	-2884399.84		
	1750	-482152.61	-16944.32	-39700.36	39700.36	-604174.044	-563060.24	-479689.605	-498667.564	-998207.034		
9F00	150	-10389188.4	-1545514.86	-1233668.67	1233668.67	-14062527.5	-11074223.9	-13664907.1	-9229078.75	-10495052.4		
	2250	5707216.36	779541.61	-27398.24	27398.24	8094466.93	6640624.91	6757161.42	5111835.77	5161152.76		
	4350	-6990524.92	-734377.251	-1239466.36	1239466.36	-7956834.54	-7969435.5	-8251879.25	-5149182.25	-5871861.8		
9F01	150	-9694168.88	-1365145.66	1229400.93	-1229400.93	-13817206.5	-10179118.8	-12766760.7	-7619130.93	-9830312.65		
	2250	5791124.98	3266.08	-24983.67	24983.67	8270451.58	6834735.79	6886823.6	5189029.99	5204336.7		
	4350	-9117726.19	-1364452.19	-1278008.26	1278008.26	-8723634.91	-9634316.46	-9908501.11	-6656160.93	-8357746.11		
9F02	150	-8141608.93	-750702.06	-256952.24	256952.24	-11019134.1	-9556299.96	-9616700.27	-7583105.1	-7096191.07		
	2250	6240953.97	728185.95	-142803.93	142803.93	7454211.89	6041164.31	6041084.56	4569317.04	4945400.11		
	4350	-8770627.94	-1045814.13	-28695.64	28695.64	-13157576.1	-10794059.8	-10794059.8	-7911991.22	-7867739.07		
9F03	150	-10264795.1	-1432140.87	1843429.37	-1843429.37	-13803137.9	-11112009.1	-11040807.4	-7807402.2	-9378209.34		
	1750	3580287.22	599327.79	121707.72	-121707.72	5399268.17	4539508.88	4282922.67	3331795.45	3112731.55		
	3350	9991514.86	1593196.26	2026844.87	-2026844.87	14436930.2	14187647.2	9866479	10870523.7	7114202.96		
9F04	0	-14804936.6	-1811374.87	-2177909.08	2177909.08	-20700183.3	-13575299.4	-16001689.3	-11611614.2	-11391377.9		
	425	1738192.33	-15929.04	477212.92	-477212.92	2559912.48	1601925.82	1820479.49	1192084.73	1133081.47		
	850	17493544.7	2218319.97	3102334.99	-3102334.99	24505656.5	20721986	17144062.5	13636291.7	12898068.7		
9F05	225	-8121086.64	-2512771.66	-131072.64	131072.64	-13796708.6	-11039308.4	-10764083.8	-7426943.26	-7191012.51		
	2600	5907736.18	1666618.61	-45947.07	45947.07	9756870.19	7729830.15	7826221	5379010.2	5068314.92		
	4775	-8136018.09	-2505423.55	-39178.5	39178.5	-13818993	-10972494.7	-10554878.5	-7252153.03	-7057675.12		
9F06	225	-5838686.24	-1192616.66	-220008.59	220008.59	-9312670.04	-7469287.21	-7024849.8	-5451295.04	-5456279.98		
	2250	4464957.64	1332107.76	61741.44	-61741.44	7551021.53	6086575.97	5979018.94	4170029.17	3962994.68		
	4275	-8908032.84	-2180850.02	-343491.51	343491.51	-11659368.5	-9549486.99	-9570317.89	-5818356.67	-5406641.11		
9F07	0	9128916.18	1014028.32	-1603263.89	1603263.89	12677020.6	9965066.82	12121939.8	8662966.18	9568871.15		
	387.5	-2200040.73	-425815.45	104966.55	-104966.55	-3321517.21	-2602321.14	2827750.86	-1886693.46	2074609.28		
	775	14276872.7	2270609.69	1710196.92	-1710196.92	20446005.1	15146594.6	10746218	11307308.2	14391082.7		
9F00	225	-10989974.3	-2665294.74	-540920.07	540920.07	-17012940.7	-13029442.7	-14809999.5	-9729442.67	-10555710.8		
	1662.5	7172395.95	1713164.21	-1760.95	1760.95	11047937.9	8964821.03	9236090.82	6296469.2	6813643.41		
	3600	9026017.77	-303875.01	-993564.56	993564.56	5120501.21	3606608.99	5483094.56	3361817.89	4970204.1		
9F39	225	-10940041	-3151840.16	-548966.52	548966.52	-17454998.3	-14414153.8	-13252216	-9801996.98	-8616477.84		
	2240	8420614.82	2072247.36	-15870.63	15870.63	11020327.1	8633251.27	8716579.89	5764259.77	5792835.91		
	4275	-8232052.14	-2494503.7	-516024.34	516024.34	-13660276.5	-10468691	-11542971.2	-8044425.02	-7870508.83		
9F8	0	402152.61	16944.32	39700.36	-39700.36	604174.044	563060.24	479689.605	498667.564	998207.034		
	875	-2475285.04	-9872.26	627119.34	-627119.34	2686059.26	-2542486.42	-2674178.12	-2171317.23	-2284186.84		
	1750	-6516099.93	-36640.83	85720.32	-85720.32	-7679037.24	-6764434.67	-6964447.36	-5786360.65	-5940657.23		
9F40	250	-13283594.9	-4003388.45	-146384.82	146384.82	-22664137	-18072736.8	-17766328.9	-12068681.7	-11803489.1		
	2262.5	6993639.02	1923248.62	-25226.92	25226.92	10269566.1	8084300.5	9137280.03	5371576.89	5416976.36		
	4275	-6196734.22	-1606129.5	95820.99	-95820.99	-9576289.5	-7634005.97	7725540.95	-5132522	-5395198.74		
9F41	250	-12969563.6	-4208298.17	-177126.73	177126.73	-22266753.4	-17708866.5	-17408900.5	-11922021.3	-11613193.2		
	2262.5	6846848.46	1915873.35	26046.01	-26046.01	10144016.5	7976627.89	8031954.51	5295252.21	5332675.03		
	4275	-6003346.78	-1644973.07	124434.71	-124434.71	-10194778.1	-8041307.24	-8302620.13	-5560126.87	-5784103.35		
9F42	225	-10203252.5	-3194952.01	-567640.18	567640.18	-17058456.2	-14371789.4	-13079744.1	-9693893.39	-8872141.11		
	2250	6861666.37	2072556.91	-14712.97	14712.97	11192058.7	8634951.95	8865749.09	5893959.05	5920442.41		
	4275	-8066167.56	-2510597.58	538214.22	-538214.22	-13720045.2	-10297855.2	-11426105.1	-8793149	-7761904.59		
9F43	225	-11223574.1	-2629169.27	579916.25	-579916.25	-17674950.8	-13868706.7	-14871929.8	-9684892.06	-10617741.3		
	1662.5	7007332.2	1593153.81	-201222.46	201222.46	11117844.7	8746445.58	9159012.74	6125499.77	6487699.19		

	3600	46155030,63	-4100001,40	-976061,22	976061,22	46993404,03	9403610,86	5483969,24	3275126,51	5093678,21			
BF44	0	8444829,27	769646,11	-1744645,56	1744645,56	11365227,7	7762612,43	11425156,1	6830264,46	9170436,44			
	987,6	-2492836,77	-629499,68	11174,7	-11174,7	-3053662,02	-3104133,25	3139600,12	-3233490,95	-2253504,92			
	775	-14178459,6	-2911229,64	1766994,92	-1766994,92	-20064114,3	-14451855,1	-10662114,5	-11178403,2	-14360619,1			
BF45	225	-6534086,52	-1401249,88	-504669,06	504669,06	-8714974,6	-7556593,67	-6034680,11	-6476475,9				
	2250	4475147,05	1466638,87	61118,56	-61118,56	7615840,92	6089424,42	5981075,09	4082829,26	1973525,89			
	4275	-5090862,3	-1949352,6	628906,27	-628906,27	-10427986,9	-7579281,54	-6955784,71	-4917561,43	-6046982,71			
BF46	225	-7997922,2	-2527139,5	111764,52	-111764,52	-12656609,7	-10912102,5	-10078605,4	-7288088,18	-7097997,69			
	2600	6298722,93	1720849,46	25374,37	-25374,37	8249326,7	6566014,98	6202718,76	5852587,62	5507813,75			
	4775	7497306,82	-1952044,88	161612,68	-161612,68	-12129919,9	-9547366,04	-8987785,66	-8601663,92	-8893298,96			
BF47	150	904908,7	246917,71	-909741,21	909741,21	1470016,78	1403018,71	2231774,64	-76349,169	1705164,92			
	1750	282152,62	-51557,56	90344,35	-90344,35	353291,329	460939,947	263979,942	410647,309	268019,225			
	3350	-3747416,93	-549032,9	1170427,95	-1170427,95	-5668352,56	-5035674,61	-5401671,21	-5379390,05	-4426068,84			
BF48	150	2568048,67	12796,01	87705,03	-87705,03	2628093,53	2200821,762	2416106,794	2584677,031	1967521,195			
	2250	1284091,6	-8001,04	147255,32	-147255,32	1527420,14	1499041,03	1165806,16	1288212,14	1023152,69			
	4350	-3922141,26	-26468,38	268774,62	-268774,62	-3757705,61	-3676472,65	-4415700,36	-3295030,42	-3761024,73			
BF49	150	1059389,14	80079,03	1177853,34	-1177853,34	1400353,42	2425349,29	-48145,7267	2011618,16	-100817,79			
	2250	445370,98	-15105,15	20618,11	-20618,11	610275,868	475226,199	431605,068	419571,881	362096,603			
	4350	5402102,66	-1103839,09	1136216,11	-1136216,11	7660670,01	6023563,95	6634516,22	6734453,04	4739766,64			
BF5	0	6492272,03	-38196,02	84382,64	-84382,64	7845640,07	6782409,1	6939602,64	6767100,45	5912989,2			
	875	-2457350,02	-10002	67042,09	-67042,09	-2964703,24	-2624423,23	-2564108,52	-2155567,15	-2257362,91			
	1750	495464,64	16192,03	39701,54	-39701,54	620468,816	577246,957	490870,723	481667,662	410204,79			
BF50	150	1149991,19	76374,77	1203060,85	-1203060,85	1500899,06	2541950,3	15069,5145	2116872,24	-49669,594			
	2250	448036,23	-16934,47	18295,16	-18295,16	610468,2215	473697,835	435177,799	419560,251	366766,962			
	4350	-5426902,85	-1107407,72	1156508,49	-1156508,49	-7960912,59	-5140039,66	-5690867,96	-5699364,92	-4798,264,03			
BF51	150	326151,12	21969,36	41413,94	-41413,94	426512,52	485704,736	319735,084	320909,564	256283,462			
	2250	1206119,26	-7668,37	150178,53	-150178,53	1630049,72	1499928,02	1184646,11	1291788,91	1021446,66			
	4350	-3989887,64	-27068,1	259943,11	-259943,11	-4847202,93	-3952508,12	-4496518,66	-3357850,96	-3823947,68			
BF52	150	5570,16,22	284638,11	-1078988,3	1078988,3	1115665,26	-249790,185	2010052,281	-379790,287	1562398,62			
	1750	411045,95	-50251,16	97078,91	-97078,91	411656,744	491044,592	295393,552	467710,795	296174,755			
	3350	-3460727,9	-305006,46	1266142,12	-1266142,12	-4672530,22	-2580273,56	-5240072,03	-1980727,2	-4249930,02			
BF53	150	3466332,57	835496,58	1116729,97	-1116729,97	5483048,17	5530124,03	3244991,1	4114855,29	2104742,34			
	1750	166089,78	111284,21	-94624,03	94624,03	21313	-29472,2305	188528,152	64409,194	224552,42			
	3350	-6741968,41	-1057274,09	-1055778,01	1055778,01	-9732960,64	-5449824,76	-6707690,94	-7242971,78	-6892571,05			
BF54	150	-2499818,92	-510113,91	-59843,59	59843,59	-3214884,96	-3166548,28	-3040296,74	-2902706,27	-2194047,61			
	1750	1189865,67	-28175,67	161023,03	-161023,03	1382756,12	1052647,91	1201906,13	935428,276	1215799,85			
	3350	-1056024,85	-482780,58	-252402,47	252402,47	-800372,924	-1269208,36	-718794,77	-1465364,48	989660,144			
BF55	150	2361090,5	965677,67	-1255377,2	1255377,2	3418712,87	1496253,36	4163545,48	935141,97	3263820,93			
	2250	529170,27	11418,73	-30514,4	30514,4	553274,295	524478,363	598459,603	448793,283	503716,203			
	4350	-7526724,93	-1420048,2	1204348,48	-1204348,48	-9552334,3	-8973188,31	-9502300,12	-8099716,86	-7989988,11			
BF56	150	-7281363,5	-968787,42	1195869,84	-1195869,84	-9266904,23	-8701356,54	-9131583,42	-7477394,2	-7629860,3			
	2250	622441,29	3635,57	-28015,8	28015,8	632686,45	632487,679	681321,058	444982,981	495411,361			
	4350	2092771,15	566238,85	-1261901,51	1261901,51	3081307,22	1219568,65	2848551,82	756782,676	3010205,39			
BF57	150	-1166668,15	-486469,93	-240526,64	240526,64	-1848066,052	-1220649,85	-1712244,151	-1450975,22	-1012627,46			
	2250	1196006,73	120272,8	169931,61	-169931,61	1398817,68	1080317,74	1398873,91	822484,743	1218571,48			
	4350	-2476233,54	-540005,44	-74036,46	74036,46	-3339985,95	-3190158,64	-3034082,87	-2994413	-2160807,37			
BF58	150	6608477,44	-1668190,61	-1360396,85	1360396,85	-9629041,8	-9087794,88	-6498960,6	-7189985,96	-4705272,42			
	1750	189382,1	-112087,5	-99010,72	99010,72	46042,52	-7061,5385	190380,874	54915,242	264136,528			
	3350	3386386,14	343615,92	1192274,4	-1192274,4	5089443,38	5683916,33	3079929,09	4103894,49	1956610,57			
BF6	0	-495464,64	-16192,03	-39701,54	39701,54	620468,816	-577246,957	-490870,723	-481667,662	-410204,79			
	875	-3260411,56	-18002	-62042,09	62042,09	3400000,86	3482274,42	-3051986,03	-2992908,27	-2881232,61			
	1750	7110028,13	26196,02	-84382,64	84382,64	-8478407,72	-7523705,97	-7246600,43	-6479207,89	-6020019,14			
BF7	225	-14204999,4	-1773178,6	974943,63	-974943,63	-19884672,2	-17615631,4	-15668140,8	-13661948,7	-11907050,2			
	612,5	-916046,09	-299672,8	430626,12	-430626,12	-1579730,59	-792881,766	-1697194,52	-436677,373	-1212003,19			
	1000	11918732,9	1932669,09	1806193,8	-1806193,8	16034690	15485700,8	11609693,8	12379434	9074385,16			
BF8	0	7291707,33	218358,31	1449219,93	-1449219,93	9007209,29	9372969,07	6349519,11	7859729,13	5268344,06			
	1837,5	4848360,29	779205,27	77542,62	-77542,62	7054700,73	5908647,04	5746707,62	4433312,62	4293736,9			
	3275	-7416401,92	-967889,68	-1285128,62	1285128,62	-10422306,1	-10041913	-7340042,9	-7301377,49	-6618146,97			
BF9	225	-7043514,57	-1173614,17	4188,06	-4188,06	10690000,2	-8815358,23	-8824152,15	-6005392,96	-6612932,37			
	1250	4988688,99	747650,3	17681,73	-17681,73	7155887,27	5994499,84	5004877,1	4497010,59	4455726,49			
	4275	-7526784,23	962766,48	31575,5	-31575,5	-10574167,4	-8790728,49	-8847027,84	-6749567,68	6802593,76			

1. Balok yang ditinjau
2. Pelat yang ditinjau
3. MD = Momen balok akibat beban mati
4. ML = Momen akibat beban hidup
5. MeX = Momen balok akibat beban gempa sejajar sumbu X
6. MeY = Momen balok akibat beban gempa sejajar sumbu Y
7. Comb 1 = 1,2 x MD
8. Comb 2 = 1,2 x MD + 1,6 x ML
9. Comb 3 = 1,05 (MD + 0,3 x ML + MeX)
10. Comb 4 = 1,05 (MD + 0,3 x ML + MeY)
11. Comb 5 = 0,9 (MD + MeX)
12. Comb 6 = 0,9 (MD + MeY)
13. Momen Maksimum Lapangan
14. Momen Maksimum Tumpuan

Lapiran Gaya Geser Balok

FRAME	Ln mm	LOC mm	VD N	VL N	VE N	M Nak + kN.m	M Nak - kN.m	V rencana N	V maks N	V Tpk. N
1	2	3	4	5	6	7	8	9	10	11
1B1	6550	225	-11574	0	0	149,2973	127,1396	-9196,54377	-12152,5405	9192,54377
		3900	0	0	0	149,2973	127,1396	3599,999732	0	0
		6775	11575,5	0	0	149,2973	127,1396	15112,54123	12152,5405	12152,5405
1B10	3275	225	-8040	0	0	149,2973	127,1396	-6302,03403	-8440,0315	-6302,03405
		1862,5	-2353,1	0	0	149,2973	127,1396	5919,999465	-2366,755	-2366,755
		3275	8039,85	0	0	149,2973	127,1396	9630,030469	8440,0315	8440,0315
1B11	750	0	10029,5	0	0	149,2973	127,1396	27021,6516	11370,996	11370,996
		375	13194,8	0	0	149,2973	127,1396	25830,6036	12762,5085	12762,5085
		750	13450	0	0	149,2973	127,1396	40004,0766	14154,021	14154,021
1B12	4025	250	-7068	0	0	149,2973	127,1396	-2604,30765	-7421,4	-2604,30765
		2062,5	44,17	0	0	149,2973	127,1396	4816,892343	46,3785	46,3785
		4275	7156,35	0	0	149,2973	127,1396	12301,05995	7514,1675	7514,1675
1B13	4050	225	-7156,4	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B14	4050	225	-7156,4	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B15	4050	225	-7156,4	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B16	3650	150	-6479,7	0	0	149,2973	127,1396	-2292,79005	-6938,6525	-2292,7905
		2075	-176,7	0	0	149,2973	127,1396	5035,842	-185,535	-185,535
		4000	6626,25	0	0	149,2973	127,1396	11993,4045	6937,5625	6937,5625
1B17	3650	150	-6479,7	0	0	149,2973	127,1396	-2292,79005	-6938,6525	-2292,7905
		2075	-176,7	0	0	149,2973	127,1396	5035,842	-185,535	-185,535
		4000	6626,25	0	0	149,2973	127,1396	11993,4045	6937,5625	6937,5625
1B18	4500	250	-7951,5	0	0	149,2973	127,1396	-3040,63524	-8349,075	-3040,63524
		2500	0	0	0	149,2973	127,1396	4308,4436	0	0
		4750	7951,5	0	0	149,2973	127,1396	12657,5176	8349,075	8349,075
1B19	4500	250	-7951,5	0	0	149,2973	127,1396	-3040,63524	-8349,075	-3040,63524
		2500	0	0	0	149,2973	127,1396	4308,4436	0	0
		4750	7951,5	0	0	149,2973	127,1396	12657,5176	8349,075	8349,075
1B2	4775	0	-7295,7	0	0	149,2973	127,1396	-3600,1621	-7660,4745	-3600,1621
		2387,5	1141,73	0	0	149,2973	127,1396	4060,312398	1198,8165	1198,8165
		4775	9579,15	0	0	149,2973	127,1396	14118,4199	10058,1075	10058,1075
1B20	4050	225	-8039,9	0	0	149,2973	127,1396	-4180,74542	-8441,8425	-4180,74542
		2250	0	0	0	149,2973	127,1396	4261,097077	0	0
		4775	8039,85	0	0	149,2973	127,1396	12702,93958	8441,8425	8441,8425
1B21	9500	250	-16787	0	0	149,2973	127,1396	-15584,9838	-17625,825	-15584,9838
		5000	0	0	0	149,2973	127,1396	2040,841231	0	0
		9750	16786,5	0	0	149,2973	127,1396	19666,66623	17625,825	17625,825
1B22	9500	250	-16787	0	0	149,2973	127,1396	-15584,9838	-17625,825	-15584,9838
		5000	0	0	0	149,2973	127,1396	2040,841231	0	0
		9750	16786,5	0	0	149,2973	127,1396	19666,66623	17625,825	17625,825
1B23	9500	250	-16787	0	0	149,2973	127,1396	-15584,9838	-17625,825	-15584,9838
		5000	0	0	0	149,2973	127,1396	2040,841231	0	0
		9750	16786,5	0	0	149,2973	127,1396	19666,66623	17625,825	17625,825
1B24	9550	225	-16874,9	0	0	149,2973	127,1396	-15688,4563	-17718,593	-15688,4563
		5000	0	0	0	149,2973	127,1396	2030,156199	0	0
		9775	16874,9	0	0	149,2973	127,1396	19742,7487	17718,5925	17718,5925
1B25	9500	250	-16787	0	0	149,2973	127,1396	-15584,9838	-17625,825	-15584,9838
		5000	0	0	0	149,2973	127,1396	2040,841231	0	0
		9750	16786,5	0	0	149,2973	127,1396	19666,66623	17625,825	17625,825
1B26	9500	250	-16787	0	0	149,2973	127,1396	-15584,9838	-17625,825	-15584,9838
		5000	0	0	0	149,2973	127,1396	2040,841231	0	0
		9750	16786,5	0	0	149,2973	127,1396	19666,66623	17625,825	17625,825
1B27	9500	250	-16787	0	0	149,2973	127,1396	-15584,9838	-17625,825	-15584,9838
		5000	0	0	0	149,2973	127,1396	2040,841231	0	0
		9750	16786,5	0	0	149,2973	127,1396	19666,66623	17625,825	17625,825
1B28	4550	225	-8039,9	0	0	149,2973	127,1396	-4180,74542	-8441,8425	-4180,74542
		2500	0	0	0	149,2973	127,1396	4261,097077	0	0
		4775	8039,85	0	0	149,2973	127,1396	12702,93958	8441,8425	8441,8425
1B29	5350	250	-9276,8	0	0	149,2973	127,1396	-6116,66382	-9740,5075	-6116,66382
		2925	176,7	0	0	149,2973	127,1396	3623,923682	185,535	185,535
		5600	9630,15	0	0	149,2973	127,1396	13735,58118	10111,6575	10111,6575
1B3	4775	0	-7295,7	0	0	149,2973	127,1396	-3600,1621	-7660,4745	-3600,1621
		2387,5	1141,73	0	0	149,2973	127,1396	4060,312398	1198,8165	1198,8165
		4775	9579,15	0	0	149,2973	127,1396	14118,4199	10058,1075	10058,1075
1B30	5350	250	-9276,8	0	0	149,2973	127,1396	-6116,66382	-9740,5075	-6116,66382
		2925	176,7	0	0	149,2973	127,1396	3623,923682	185,535	185,535
		5600	9630,15	0	0	149,2973	127,1396	13735,58118	10111,6575	10111,6575

1B31	4000	0,50	-2601,5	0	0	149,2973	127,1396	-4040,63234	-8349,075	-4040,63234
		2000	0	0	0	149,2973	127,1396	4808,44436	0	0
		4750	7956,5	0	0	149,2973	127,1396	12657,5178	8349,075	8349,075
1B32	4000	250	-2601,5	0	0	149,2973	127,1396	-4040,63234	-8349,075	-4040,63234
		2000	0	0	0	149,2973	127,1396	4808,44436	0	0
		4750	7956,5	0	0	149,2973	127,1396	12657,5178	8349,075	8349,075
1B33	4000	250	-2601,5	0	0	149,2973	127,1396	-4040,63234	-8349,075	-4040,63234
		2000	0	0	0	149,2973	127,1396	4808,44436	0	0
		4750	7956,5	0	0	149,2973	127,1396	12657,5178	8349,075	8349,075
1B34	4000	250	-2601,5	0	0	149,2973	127,1396	-4040,63234	-8349,075	-4040,63234
		2000	0	0	0	149,2973	127,1396	4808,44436	0	0
		4750	7956,5	0	0	149,2973	127,1396	12657,5178	8349,075	8349,075
1B35	2100	175	-2601,5	0	0	149,2973	127,1396	-4040,63234	-4170,5375	-4170,5375
		1200	1456,7	0	0	149,2973	127,1396	9017,670636	-185,332	-185,332
		2275	3602,25	0	0	149,2973	127,1396	14021,13809	8013,4675	8013,4675
1B36	2100	225	-2601,5	0	0	149,2973	127,1396	-5014,203063	-3963,4375	-3963,4375
		1800	1756,7	0	0	149,2973	127,1396	9017,670636	185,332	185,332
		3825	3820,75	0	0	149,2973	127,1396	13193,20006	4174,5375	4174,5375
1B37	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B38	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B39	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B40	4025	250	-2601,5	0	0	149,2973	127,1396	-2604,50765	-7421,4	-2604,50765
		2262,5	44,17	0	0	149,2973	127,1396	4816,892648	46,3765	46,3765
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B41	4025	225	-2601,5	0	0	149,2973	127,1396	-2697,27515	-7514,1675	-2697,27515
		2137,5	44,17	0	0	149,2973	127,1396	4816,892648	46,3765	46,3765
		4250	7156,35	0	0	149,2973	127,1396	12238,29233	7421,4	7421,4
1B42	4025	225	-2601,5	0	0	149,2973	127,1396	-2697,27515	-7514,1675	-2697,27515
		2137,5	44,17	0	0	149,2973	127,1396	4816,892648	46,3765	46,3765
		4250	7156,35	0	0	149,2973	127,1396	12238,29233	7421,4	7421,4
1B43	4025	250	-2601,5	0	0	149,2973	127,1396	-2604,50765	-7421,4	-2604,50765
		2262,5	44,17	0	0	149,2973	127,1396	4816,892648	46,3765	46,3765
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B44	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B45	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B46	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B47	4550	225	-2601,5	0	0	149,2973	127,1396	-4130,74542	-7441,8425	-4130,74542
		2500	0	0	0	149,2973	127,1396	4961,070711	0	0
		4775	8329,25	0	0	149,2973	127,1396	13778,94253	7441,8425	7441,8425
1B5	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B6	4050	225	-2601,5	0	0	149,2973	127,1396	-2727,00906	-7514,1675	-2727,00906
		2250	0	0	0	149,2973	127,1396	4787,158444	0	0
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B7	4025	250	-2601,5	0	0	149,2973	127,1396	-2604,50765	-7421,4	-2604,50765
		2262,5	44,17	0	0	149,2973	127,1396	4816,892648	46,3765	46,3765
		4275	7156,35	0	0	149,2973	127,1396	12301,32594	7514,1675	7514,1675
1B8	750	0	1029,5	0	0	149,2973	127,1396	37221,6516	11270,996	11270,996
		375	12154,8	0	0	149,2973	127,1396	20830,6336	12762,5085	12762,5085
		750	12460	0	0	149,2973	127,1396	40004,6766	14154,021	14154,021
1B9	3275	225	-8040	0	0	149,2973	127,1396	-2522,03403	-5443,0315	-2522,03403
		1862,5	-2253,1	0	0	149,2973	127,1396	3919,997465	2265,775	2265,775
		3500	3533,82	0	0	149,2973	127,1396	9630,508465	3710,511	3710,511
1C1	2100	250	-2355	0	0	74,27159	74,27159	-3473,500	-3473,500	-3473,500
		1300	1178	0	0	74,27159	74,27159	0,000	123,690	0,000
		2550	2991,6	0	0	74,27159	74,27159	2721,180	2721,180	2721,180
1C10	2650	150	-2076,1	0	0	74,27159	74,27159	-5030,405	-5030,405	-5030,405
		1325	-117,8	0	0	74,27159	74,27159	0,000	-123,690	-123,690
		2500	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025

1C11	2650	150	-2586,1	0	0	74,27159	74,27159	-3030,405	-3030,405	-3030,405
		1325	-117,8	0	0	74,27159	74,27159	0,000	-123,690	-123,690
		2800	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
1C12	2650	150	-2586,1	0	0	74,27159	74,27159	-3030,405	-3030,405	-3030,405
		1325	-117,8	0	0	74,27159	74,27159	0,000	-123,690	-123,690
		2800	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
1C13	2650	150	-2586,1	0	0	74,27159	74,27159	-3030,405	-3030,405	-3030,405
		1325	-117,8	0	0	74,27159	74,27159	0,000	-123,690	-123,690
		2500	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
1C14	2650	250	-2650,5	0	0	74,27159	74,27159	-2783,025	-2783,025	-2783,025
		1425	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2600	2586,1	0	0	74,27159	74,27159	3030,405	3030,405	3030,405
1C15	2650	250	-2650,5	0	0	74,27159	74,27159	2783,025	-2783,025	2783,025
		1425	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2600	2586,1	0	0	74,27159	74,27159	3030,405	3030,405	3030,405
1C16	2650	125	-2650,5	0	0	74,27159	74,27159	-2783,025	-2783,025	-2783,025
		1250	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		2375	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
1C17	2650	125	-2650,5	0	0	74,27159	74,27159	-2783,025	-2783,025	-2783,025
		1250	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		2375	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
1C18	4050	125	-5006,5	0	0	74,27159	74,27159	-5256,825	-5256,825	-5256,825
		2250	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		4375	5006,5	0	0	74,27159	74,27159	5256,825	5256,825	5256,825
1C19	4250	125	-5006,5	0	0	74,27159	74,27159	-5256,825	-5256,825	-5256,825
		2250	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		4375	5006,5	0	0	74,27159	74,27159	5256,825	5256,825	5256,825
1C2	2100	250	-2356	0	0	74,27159	74,27159	-2473,800	-2473,800	-2473,800
		1300	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2350	2591,6	0	0	74,27159	74,27159	2721,180	2721,180	2721,180
1C20	4250	125	-5006,5	0	0	74,27159	74,27159	-5256,825	-5256,825	-5256,825
		2250	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		4375	5006,5	0	0	74,27159	74,27159	5256,825	5256,825	5256,825
1C21	4250	125	-5006,5	0	0	74,27159	74,27159	-5256,825	-5256,825	-5256,825
		2250	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		4375	5006,5	0	0	74,27159	74,27159	5256,825	5256,825	5256,825
1C22	4750	125	-5006,5	0	0	74,27159	74,27159	-5875,275	-5875,275	-5875,275
		2500	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		4875	5581,7	0	0	74,27159	74,27159	5875,275	5875,275	5875,275
1C3	2100	250	-2356	0	0	74,27159	74,27159	-2473,800	-2473,800	-2473,800
		1300	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2350	2591,6	0	0	74,27159	74,27159	2721,180	2721,180	2721,180
1C4	2100	250	-2356	0	0	74,27159	74,27159	-2473,800	-2473,800	-2473,800
		1300	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2350	2591,6	0	0	74,27159	74,27159	2721,180	2721,180	2721,180
1C5	2650	250	-2650,5	0	0	74,27159	74,27159	-2783,025	-2783,025	-2783,025
		1425	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2600	2586,1	0	0	74,27159	74,27159	3030,405	3030,405	3030,405
1C6	2450	150	-2586,1	0	0	74,27159	74,27159	-3030,405	-3030,405	-3030,405
		1375	0	0	0	74,27159	74,27159	0,000	0,000	0,000
		2600	2586,1	0	0	74,27159	74,27159	3030,405	3030,405	3030,405
1C7	2650	250	-2650,5	0	0	74,27159	74,27159	-2783,025	-2783,025	-2783,025
		1425	117,8	0	0	74,27159	74,27159	0,000	123,690	0,000
		2600	2586,1	0	0	74,27159	74,27159	3030,405	3030,405	3030,405
1C8	2650	150	-2586,1	0	0	74,27159	74,27159	-3030,405	-3030,405	-3030,405
		1325	-117,8	0	0	74,27159	74,27159	0,000	-123,690	-123,690
		2500	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
1C9	2650	150	-2586,1	0	0	74,27159	74,27159	3030,405	-3030,405	-3030,405
		1325	-117,8	0	0	74,27159	74,27159	0,000	-123,690	-123,690
		2500	2650,5	0	0	74,27159	74,27159	2783,025	2783,025	2783,025
2A1	2750	250	-33391	-7524,4	66030,49	570,3475	240,6796	62993,185	235486,916	62993,185
		1625	-16574	-4340,8	66030,49	570,3475	240,6796	92933,892	250367,623	92933,892
		3000	-2210,1	-1977,52	66030,49	570,3475	240,6796	100497,206	272921,057	100497,326
2A10	2750	250	-113047	-42413,22	29506,78	570,3475	240,6796	-63588,620	-44554,472	-44554,472
		1625	-96636	-36046,03	29506,78	570,3475	240,6796	-34421,867	-15387,719	-15387,719
		3000	-78113	-31319,47	29506,78	570,3475	240,6796	-10009,640	9024,508	9024,508
2A11	2750	250	-52068	7302,21	68956,38	570,3475	240,6796	63335,090	248257,559	63335,090
		1625	-14260	-4130,62	68956,38	570,3475	240,6796	93475,787	268198,256	93475,787
		3000	-1896,2	-1775,33	68956,38	570,3475	240,6796	101039,231	283761,700	101039,231
2A12	1100	0	70287,9	29226,76	59788,29	570,3475	240,6796	366738,267	359619,287	359619,287
		550	75117,5	29985,03	59788,29	570,3475	240,6796	372593,485	361468,485	361468,485
		1100	80609,2	30253,78	59788,29	570,3475	240,6796	382841,916	371716,916	371716,916
2A13	1100	0	71416,1	29846,66	61509,76	570,3475	240,6796	368561,674	364666,842	364666,842
		550	76828,8	30602,91	61509,76	570,3475	240,6796	375039,145	371144,319	371144,319
		1100	84903,6	32871,66	61509,76	570,3475	240,6796	385899,041	382005,015	382005,015

2A14	1750	0	29026	11903,23	67046,46	570,3475	240,6796	302670,356	328773,502	302670,356
		875	39056,1	12860,91	67046,46	570,3475	240,6796	218244,382	338861,472	218244,382
		1750	49086,2	13732	67046,46	570,3475	240,6796	333817,119	383904,309	333817,119
2A15	1750	0	29491,7	12071,21	70821,99	570,3475	240,6796	308296,035	341765,453	308296,035
		875	39070,8	13028,23	70821,99	570,3475	240,6796	219407,924	351650,340	219407,924
		1750	49611,7	13899,31	70821,99	570,3475	240,6796	338626,772	366497,187	338626,772
2A16	4000	0	21941	9937,95	26030,45	570,3475	240,6796	261451,917	68745,467	261451,917
		2000	30111,79	60,02	26030,45	570,3475	240,6796	70706,351	113613,407	70706,351
		4000	38244,6	10062,02	26030,45	570,3475	240,6796	117201,700	157078,336	117201,700
2A17	4000	0	-31445	-4777,34	32990,49	570,3475	240,6796	202851,414	95170,8521	202851,414
		2000	447,83	552,66	32990,49	570,3475	240,6796	72096,1841	149740,162	72096,1841
		4000	33440,6	10220,66	32990,49	570,3475	240,6796	117961,204	194305,692	117961,204
2A18	4000	0	-8966,3	-2034,52	32191,05	570,3475	240,6796	31210,5537	94306,097	31210,5537
		2000	2770,29	715,62	32191,05	570,3475	240,6796	75703,477	139571,057	75703,477
		4000	14507	10715,68	32191,05	570,3475	240,6796	120340,486	184837,966	120340,486
2A19	4000	0	-21825	-7002,53	-24002,45	570,3475	240,6796	41006,259	-133413,912	-133413,912
		2000	10069,5	2797,47	-24002,45	570,3475	240,6796	98171,108	-88863,980	-88863,980
		4000	43032,1	12797,47	-24002,45	570,3475	240,6796	130736,096	-44209,042	-44209,042
2A2	2750	250	-117708	-42481,9	28719,01	570,3475	240,6796	92031,69	-47556,100	-47556,100
		1625	-9629	-36094,37	28719,01	570,3475	240,6796	-34114,042	-18359,427	-18359,427
		3000	-21027	-31367,7	28719,01	570,3475	240,6796	-970,12	60022,980	60022,980
2A20	4000	0	-9651	-9251,13	32500,62	570,3475	240,6796	31019,013	96422,547	31219,512
		2000	2701,99	343,87	32500,62	570,3475	240,6796	75754,443	140207,477	75754,443
		4000	14934,3	10742,87	32500,62	570,3475	240,6796	120349,383	183772,413	120349,383
2A21	4000	0	-21722	-9717,45	33500,62	570,3475	240,6796	29002,449	97681,203	29002,449
		2000	7100,62	282,55	33500,62	570,3475	240,6796	72567,389	142136,143	72567,389
		4000	35943,6	10282,55	33500,61	570,3475	240,6796	116132,329	186720,083	116132,329
2A22	4000	0	-13164	-9880,11	27524,25	570,3475	240,6796	27968,325	91451,225	27968,325
		2000	2726	119,89	27524,25	570,3475	240,6796	72533,265	114020,865	72533,265
		4000	32761,4	10119,89	27524,25	570,3475	240,6796	117098,205	136589,205	117098,205
2A23	2600	0	-34736	13934,62	-47674,01	570,3475	240,6796	164150,053	-147026,712	-147026,712
		1300	-21818,6	26159,62	-47674,01	570,3475	240,6796	126524,300	-124652,462	-124652,462
		2600	81607,6	31034,63	-47674,01	570,3475	240,6796	228170,300	-83006,901	-83006,901
2A24	2600	0	36638,4	16284,08	-47075,68	570,3475	240,6796	165457,617	-143176,163	-143176,163
		1300	22742,2	30111,08	-47075,68	570,3475	240,6796	167961,859	120801,902	120801,902
		2600	81630	31336,09	-47075,68	570,3475	240,6796	229507,859	-79155,941	-79155,941
2A25	1750	250	-50187	-10301,7	83513,53	570,3475	240,6796	101373,203	29296,096	101373,203
		1125	-14168	-6836,73	83513,53	570,3475	240,6796	112436,758	98859,621	112436,758
		2000	-18337	-7874,72	83513,53	570,3475	240,6796	123028,624	131251,508	123028,624
2A26	1750	0	40793,6	20035,43	-66872,01	570,3475	240,6796	257155,843	-203540,542	-203540,542
		875	50825,1	21999,49	-66872,01	570,3475	240,6796	249021,199	-196175,186	-196175,186
		1750	60790	26335,42	-66872,01	570,3475	240,6796	262905,165	-176791,220	-176791,220
2A27	1750	0	50118,6	30340,45	-69128,52	570,3475	240,6796	239032,203	-216141,524	-216141,524
		875	59982,1	22459,49	-69128,52	570,3475	240,6796	251397,500	-203776,167	-203776,167
		1750	74107	26795,43	-69128,52	570,3475	240,6796	270761,536	-184892,201	-184892,201
2A29	1350	0	38099,6	2864,63	83637,35	570,3475	240,6796	207431,464	345034,704	207431,464
		675	47957,7	3434,16	83637,35	570,3475	240,6796	214341,881	361940,123	214341,881
		1350	62135,8	5142,76	83637,35	570,3475	240,6796	224553,310	362156,590	224553,310
2A3	2750	250	-125514	-45405,61	28802,2	570,3475	240,6796	-74571,326	-42511,413	-42511,413
		1625	-104104	-39038,48	28802,2	570,3475	240,6796	-45404,772	-13344,660	-13344,660
		3000	-85580	-34311,9	28802,2	570,3475	240,6796	-20992,546	11067,567	11067,567
2A30	2750	0	54169,2	6836,21	63010,09	570,3475	240,6796	115899,910	229048,006	125899,955
		1375	31693,3	11762,77	63010,09	570,3475	240,6796	150312,132	218460,233	150312,132
		2750	-5910	17929,63	63010,09	570,3475	240,6796	179478,935	249026,936	179478,935
2A31	2750	0	37211,7	20008	28438,26	570,3475	240,6796	218315,054	232861,419	218315,054
		1375	90784,9	35534,57	28438,26	570,3475	240,6796	242727,281	257275,646	242727,281
		2750	117146	41901,76	28438,26	570,3475	240,6796	271894,054	286440,599	271894,054
2A32	2750	0	57014,4	34592,47	33308,37	570,3475	240,6796	252581,530	267582,307	252581,530
		1375	105538	39319,01	33308,37	570,3475	240,6796	266993,747	281994,574	266993,747
		2750	126948	40686,2	33308,37	570,3475	240,6796	286180,510	321161,337	286180,510
2A33	2750	0	50754,7	31623,13	32066,33	570,3475	240,6796	222893,810	202873,027	222892,810
		1375	99277,9	36352,3	32066,33	570,3475	240,6796	247306,037	277090,254	247306,037
		2750	120689	40719,42	32066,32	570,3475	240,6796	276472,790	306257,007	276472,790
2A34	2750	0	33271,5	13633,47	47699,25	570,3475	240,6796	154854,904	249797,027	154854,904
		1375	91794,6	18560,03	47699,25	570,3475	240,6796	172766,720	274209,243	172766,720
		2750	72305,3	24927,22	47699,25	570,3475	240,6796	207933,473	303375,996	207933,473
2A35	2775	0	56227	34079,59	24273,2	570,3475	240,6796	184271,011	186269,118	186269,118
		1387,5	74994,9	28892,28	24273,2	570,3475	240,6796	213020,820	211028,927	211028,927
		2775	96398,6	30200,52	24273,2	570,3475	240,6796	242130,624	240138,931	240138,931
2A36	2750	0	22381,3	12709,75	47176,26	570,3475	240,6796	159079,961	246326,010	159079,961
		1375	90904,2	18236,37	47176,26	570,3475	240,6796	177492,178	270738,227	177492,178
		2750	72315,3	24603,5	47176,26	570,3475	240,6796	206658,931	299904,980	206658,931
2A37	2750	0	50593,2	21612,84	32333,19	570,3475	240,6796	222710,649	253615,719	222710,649
		1375	99116,4	36339,41	32333,19	570,3475	240,6796	247122,896	278027,957	247122,896
		2750	120522	42706,59	32333,19	570,3475	240,6796	276269,628	307194,699	276269,628

2A33	2750	0	87215,7	34668,18	23847,65	570,3475	240,6796	2338869,006	270135,018	2820264,209	
		1375	105729	39301,74	23847,65	570,3475	240,6796	257281,426	294547,229	257281,426	
		2750	137150	45758,93	23847,65	570,3475	240,6796	286448,189	332313,992	286448,189	
2A39	2750	0	77080,6	30847,41	29152,43	570,3475	240,6796	2181213,606	235699,449	2181213,606	
		1375	95543,8	33571,87	29152,43	570,3475	240,6796	2423665,232	260111,679	2423665,232	
		2750	116954	41939,16	29152,43	570,3475	240,6796	2717732,586	289278,423	2717732,586	
2A44	2750	250	-11801,1	-4091,08	35703,34	570,3475	240,6796	-5631,559	-19638,648	-19638,648	
		1625	-91610	-34147,09	35703,34	570,3475	240,6796	-27151,835	9307,665	9307,665	
		3000	-93037	-29401,32	35703,34	570,3475	240,6796	-27739,608	33920,092	33920,092	
2A40	1750	0	11572,3	6433,95	61894,95	570,3475	240,6796	1227779,858	3019944,321	1227779,858	
		1275	30070,3	11160,52	61894,95	570,3475	240,6796	1481192,096	3262956,559	1481192,096	
		2750	51426,1	17547,71	61894,95	570,3475	240,6796	1771308,947	3552073,412	1771308,947	
2A42	1100	150	6951,52	11002,75	78435,8	570,3475	240,6796	348430,387	407674,227	348430,387	
		700	79743	12440,9	78435,8	570,3475	240,6796	3540701,945	4220065,487	3540701,945	
		1250	366694,3	11202,78	78435,8	570,3475	240,6796	16270700,002	4364364,544	16270700,002	
2A5	2750	250	-28548	-12503,06	58158,54	570,3475	240,6796	3677,3042	190145,744	3677,3042	
		1625	-17670	-6136,57	58158,54	570,3475	240,6796	79939,807	219310,308	79939,807	
		3000	893,52	-1410,01	58158,54	570,3475	240,6796	104252,023	243622,724	104252,023	
2A6	2775	225	-11778,8	-40209,23	85579,96	570,3475	240,6796	61907,035	-59490,568	-59490,568	
		1612,5	-96374	-33898,71	85579,96	570,3475	240,6796	-32831,041	-30190,545	-30190,545	
		3000	-77606	-20055,21	85579,96	570,3475	240,6796	-8077,235	-5430,726	-5430,726	
2A7	2750	250	77958	-11921,93	39617,94	570,3475	240,6796	53591,556	196865,377	53591,556	
		1625	-16540	-5554,04	39617,94	570,3475	240,6796	21682,309	239909,239	21682,309	
		3000	1979,23	-821,43	59817,94	570,3475	240,6796	106100,536	253441,557	106100,536	
2A8	2750	250	-11299,9	-40443,93	34056,53	570,3475	240,6796	-56115,249	-17972,147	17972,147	
		1625	-91406	-34076,73	24056,53	570,3475	240,6796	-26940,482	11194,607	11194,607	
		3000	-72967	-29350,12	34056,53	570,3475	240,6796	-2526,276	35606,823	35606,823	
2A9	2750	250	-10549	-45348,94	33121,89	570,3475	240,6796	-74442,813	-40225,374	-40225,374	
		1625	-104038	-38921,16	32121,89	570,3475	240,6796	-45276,074	-11058,632	-11058,632	
		3000	-85512	-34254,6	33121,89	570,3475	240,6796	-20861,838	13353,505	13353,505	
2B1	6750	225	-11763	43,54	-134,96	302,42	127,1846	11567,682	-13410,507	-13410,507	
		3000	-80,62	43,54	-134,96	302,42	127,1846	23718,174	-257,964	-257,964	
		6775	11824,3	43,54	-134,96	302,42	127,1846	35870,711	11894,579	11894,579	
2B10	3275	225	-8151	41,39	-1819,46	302,42	127,1846	17114,676	-37345,665	-37345,665	
		1962,5	-8216,3	41,39	-1819,46	302,42	127,1846	58235,482	-16234,863	-16234,863	
		3500	11908,5	41,39	-1819,46	302,42	127,1846	99306,284	4295,940	4295,940	
2B11	750	0	19168,9	101,05	16872,33	302,42	127,1846	224874,731	91097,244	91097,244	
		375	21773,4	101,05	16872,33	302,42	127,1846	229511,536	95734,069	95734,069	
		750	26581,9	101,05	16872,33	302,42	127,1846	234348,381	100770,894	100770,894	
2B12	4025	250	-5459,2	-5598,02	-324,67	302,42	127,1846	-40053,382	-43911,643	-43911,643	
		2262,5	-23,65	-4,33	-324,67	302,42	127,1846	39114,938	-1343,328	-1343,328	
		4275	34451,3	5210,51	-324,67	302,42	127,1846	80054,569	40598,308	40598,308	
2B13	4050	225	-34786	-5483,62	210,55	302,42	127,1846	-44033,092	-41398,277	-44233,092	
		2250	-121,79	78,1	210,55	302,42	127,1846	27813,629	656,456	656,456	
		4275	34541,9	5639,82	210,55	302,42	127,1846	99050,332	43075,140	43075,140	
2B14	4050	225	-35228	-5812,17	-768,15	302,42	127,1846	-53345,523	-46420,164	-53245,523	
		2250	-601,27	-250,45	-768,15	302,42	127,1846	36902,189	-4183,452	-4183,452	
		4275	34402,5	5311,27	-768,15	302,42	127,1846	79138,911	38053,271	39053,271	
2B15	4050	225	-35703	-5703,81	644,2	302,42	127,1846	-36171,173	-40771,028	-36171,173	
		2250	-1039,8	-142,09	644,2	302,42	127,1846	26619,550	1465,695	1465,695	
		4275	33624,9	5419,63	644,2	302,42	127,1846	88986,261	43702,407	43702,407	
2B16	4550	225	-36498	-1095,13	948,98	302,42	127,1846	-9574,169	-39687,564	-9974,169	
		2500	156,96	-158,41	948,98	302,42	127,1846	33675,332	3062,459	3062,459	
		4775	36771	4778,3	948,98	302,42	127,1846	77325,855	47612,460	47612,460	
2B17	4550	225	-37548	-5331,17	1085,19	302,42	127,1846	-11524,060	-40465,373	-11524,060	
		2500	-913,03	-394,46	1085,19	302,42	127,1846	32305,942	3154,629	3154,629	
		4775	36721,4	4540,26	1085,19	302,42	127,1846	75975,944	46834,641	46834,641	
2B18	1750	250	-34132	-8905	82124,91	302,42	127,1846	42409,390	299736,234	42409,390	
		1125	-25060	-7440,13	82124,91	302,42	127,1846	53492,825	310799,759	53492,825	
		2000	-16932	-6483,12	82124,91	302,42	127,1846	63084,711	320091,645	63084,711	
2B19	2750	0	7222,01	4176,82	82083,64	302,42	127,1846	67725,482	356720,060	67725,482	
		1375	21585,8	6540,1	82083,64	302,42	127,1846	95289,906	374223,483	95289,906	
		2750	37393,4	9723,69	82083,64	302,42	127,1846	125229,603	394034,150	125229,603	
2B2	4775	0	-7368,2	-78,85	-18626,41	302,42	127,1846	24291,698	-86050,419	-86050,419	
		2387,5	1069,12	-78,85	-18626,41	302,42	127,1846	33150,989	-77191,128	-77191,128	
		4775	9206,56	-78,85	-18626,41	302,42	127,1846	42010,290	-68331,827	-68331,827	
2B20	2150	125	-31718	-9538,64	-4516,64	302,42	127,1846	41809,099	-48427,512	-48427,512	
		1200	4987,63	1331,23	-4516,64	302,42	127,1846	77951,536	-12335,085	-12335,085	
		2275	25406,2	5429,97	-4516,64	302,42	127,1846	103694,681	13408,070	13408,070	
2B21	2150	225	-12931	-5705,73	5437,64	302,42	127,1846	52406,790	3926,155	3926,155	
		1300	-1841,6	-952,04	5437,64	302,42	127,1846	68383,359	19904,724	19904,724	
		2375	15462,6	6721,58	5437,64	302,42	127,1846	94610,375	46131,740	46131,740	
2B22	4050	225	-248,27	-10457,03	-284,96	302,42	127,1846	213,466	-38242,859	-38242,859	
		2250	1557,81	413,27	-284,96	302,42	127,1846	39929,129	372,802	372,802	
		4275	27940,5	11283,58	-284,96	302,42	127,1846	79644,810	39928,484	39928,484	

2019	4500	0	-30477	-12403,06	-158,28	108,1772	74,27159	-244577,211	-41758,749	-44819,811	
		2250	17439	-538,05	-108,28	108,1772	74,27159	14423,509	-1756,956	5420,199	
		4500	25414,6	11336,95	-158,28	108,1772	74,27159	45476,599	38013,862	83028,862	
2018	4500	0	-25888	-11993,07	258,6	108,1772	74,27159	-207850,73	-39410,899	-72676,07	
		2250	3654	-1017,6	258,6	108,1772	74,27159	7803,746	1969,107	13469,107	
		4500	25998,2	10159,23	258,6	108,1772	74,27159	47283,145	41540,907	41540,907	
2017	4500	0	-32674	-14478,32	70,06	108,1772	74,27159	42096,783	-49121,215	-42869,727	
		2250	-4472,9	-2703,72	71,66	108,1772	74,27159	-5039,916	-9151,412	-5009,925	
		4500	19726,11	8316,79	70,86	108,1772	74,27159	37084,935	403,306	37888,306	
2052	2100	150	-4351,5	-2261,05	-1357,21	108,1772	74,27159	7617,286	-1691,215	1610,29	
		1350	-7017,7	-3361,78	1021,71	108,1772	74,27159	4215,786	-140359,582	4215,786	
		2550	-4401,91	-2381,89	-1357,21	108,1772	74,27159	4013,729	-141924,716	4211,215	
2020	4500	0	-25574	11334,91	-104,11	108,1772	74,27159	-46609,361	-39859,075	-46603,042	
		2250	9158,5	-4459,87	-104,11	108,1772	74,27159	6639,248	-13659,173	-6609,049	
		4500	17098,5	8413,13	-104,11	108,1772	74,27159	30600,302	26730,035	26730,035	
2021	4500	0	-35097	-15285,27	-125,14	108,1772	74,27159	-46311,995	-58439,937	-46311,995	
		2250	-8053,8	-3413,27	-125,14	108,1772	74,27159	-6331,788	-11480,133	-6331,788	
		4500	17319,2	8461,72	-125,14	108,1772	74,27159	23642,017	26727,668	26728,668	
2022	4500	0	-5094	-2218,16	-18,15	108,1772	74,27159	-6722,211	-497,147	-4201,211	
		2250	-8714,6	-3692,58	-18,15	108,1772	74,27159	-2281,4	9130,147	-3236,411	
		4500	13408,8	5911,42	-18,15	108,1772	74,27159	36720,2	30239,294	30239,294	
2023	4500	0	-25939	-11000,12	-103,84	108,1772	74,27159	-32655,41	-6,981	-32852,419	
		2250	267,47	200,56	-103,84	108,1772	74,27159	7127,2	1376,141	1376,141	
		4500	12122,43	300,36	-103,84	108,1772	74,27159	47102,4	41353,921	41353,921	
2024	4500	0	-27169	12260,12	-146,67	108,1772	74,27159	34870,3	-42100,599	-34850,003	
		2250	-1088,2	-385,13	-146,67	108,1772	74,27159	5139,59	-1379,179	2139,593	
		4500	9591,7	11489,55	-146,67	108,1772	74,27159	45109,39	37400,622	37400,622	
2025	4500	0	-1918	-9233,68	-1774,84	108,1772	74,27159	-23166,549	-1211,638	-23166,549	
		2250	3098,43	3619,32	-1774,84	108,1772	74,27159	15012,2	2766,162	2766,162	
		4500	7289,51	14514,32	-1774,84	108,1772	74,27159	36793,1	42143,962	42745,962	
2026	3600	0	-1918	-12403,06	-41,27	108,1772	74,27159	-36950,017	-4056,336	-36950,017	
		1800	3115,6	-900,6	-41,27	108,1772	74,27159	2742,188	-2364,211	2740,608	
		3600	9411,6	10659,94	-41,27	108,1772	74,27159	42419,2	9238,412	9632,412	
2027	3350	150	-2190	-2597,81	23372,05	108,1772	74,27159	-13324,729	-20103,446	-13324,729	
		1425	2082,6	-307	23372,05	108,1772	74,27159	8534,022	-94392,177	8534,022	
		2850	7854,7	1003,89	23372,05	108,1772	74,27159	30417,274	-117957,449	30417,274	
2028	3450	150	-1811	-149,03	-21717,54	108,1772	74,27159	-2237,554	-1661,347	-2557,924	
		1350	-1811	-146,03	-21717,54	108,1772	74,27159	11947,58	-1375,982	11447,558	
		2700	-1811	-146,03	-21717,54	108,1772	74,27159	26232,606	-17796,171	26232,606	
2029	3350	150	-2190	4560,41	26789,75	108,1772	74,27159	-1008,422	9384,093	-1008,422	
		1425	2082,6	927,4	26789,75	108,1772	74,27159	15901,131	119813,646	15901,131	
		2850	7854,7	4960,21	26789,75	108,1772	74,27159	31284,834	131276,646	31284,834	
2053	2100	150	-2190,6	-2284,34	-39254,58	108,1772	74,27159	1431,911	-1493365,803	1431,911	
		1350	-2190,6	-2284,34	-39254,58	108,1772	74,27159	4039,401	-149768,315	4029,401	
		2700	-4379	-2284,34	-39254,58	108,1772	74,27159	6626,891	-177170,833	6626,891	
2030	2350	150	-1048	-1024,12	36059,01	108,1772	74,27159	-5742,553	-144614,831	-5742,553	
		1325	1958,53	1143,86	-30059,01	108,1772	74,27159	15880,265	122992,013	15080,265	
		2500	3009,1	3799,55	30059,01	108,1772	74,27159	28356,468	100535,810	38336,468	
2031	2350	150	-1390,6	-139,52	-29659,82	108,1772	74,27159	-2139,887	-169320,367	-2139,887	
		1325	4303,44	2028,47	-29659,82	108,1772	74,27159	19482,941	-117712,739	19482,941	
		2500	6254,6	4494,16	-29659,82	108,1772	74,27159	41969,144	-52206,536	41939,144	
2032	2350	150	-1271	-2280,1	-19948,6	108,1772	74,27159	-8225,813	-144196,771	-8225,813	
		1325	4561,43	1746,8	-19948,6	108,1772	74,27159	19674,182	-119607,368	19674,182	
		2500	8211,75	6654,47	-19948,6	108,1772	74,27159	49239,941	-87131,617	49239,941	
2033	2350	150	-1725,1	-2099,73	-29666,77	108,1772	74,27159	-8200,225	-149425,095	-8200,225	
		1325	9004,32	1733,03	-29666,77	108,1772	74,27159	19699,178	-117535,692	19699,178	
		2500	20354,9	6645,24	-29666,77	108,1772	74,27159	49264,931	-87969,936	49264,931	
2034	2350	150	-1380,1	-1330,69	-29948,55	108,1772	74,27159	-1998,811	-140402,157	-1998,811	
		1325	4603,7	1999,02	-29948,55	108,1772	74,27159	19567,792	113840,354	19567,792	
		2500	23554,9	4376,68	-29948,55	108,1772	74,27159	41954,663	-90458,683	41954,663	
2035	2350	150	-6849,2	-1119,43	-30841,74	108,1772	74,27159	2157,385	-140002,339	2157,385	
		1325	1111,53	1046,93	-30841,74	108,1772	74,27159	14090,934	-127968,820	14890,934	
		2500	13026,9	3000,58	-30841,74	108,1772	74,27159	26928,542	-113231,202	26928,542	
2036	2350	250	-7622,2	-4364,07	28443,82	108,1772	74,27159	240,915	107088,524	240,915	
		1425	5883,36	643,8	28443,82	108,1772	74,27159	19378,479	134218,087	19378,479	
		2600	14077,9	4976,61	28443,82	108,1772	74,27159	32841,671	139681,280	32841,671	
2037	2350	250	-4929,1	-2577,05	25101,68	108,1772	74,27159	2768,779	91671,599	2768,779	
		1425	297,89	-167,59	25101,68	108,1772	74,27159	12719,481	105522,081	12719,481	
		2600	6839,06	1942,3	25101,68	108,1772	74,27159	21844,864	114647,484	31844,864	
2038	2250	125	-1627,3	-2033,14	942,13	108,1772	74,27159	-6880,534	-16109,111	-6880,534	
		1250	2992,13	1011,07	942,13	108,1772	74,27159	17929,512	8160,930	8160,930	
		2375	13090,1	2944,99	942,13	108,1772	74,27159	36112,935	26883,759	26883,759	
2039	2250	125	-1322,1	-3867,58	-1201,58	108,1772	74,27159	-2707,592	-21939,750	-2707,592	
		1250	-6167,5	-1936,5	-1201,58	108,1772	74,27159	4679,284	-13552,865	4679,284	
		2375	3354,9	1914,51	-1201,58	108,1772	74,27159	18613,402	381,245	381,245	

3C4	2100	250	-5025,41	-471,59	-30935,81	108,1772	74,27159	8355,483	-130660,265	8355,483
		1300	-2551,8	-471,59	-30935,81	108,1772	74,27159	109102,975	-130660,773	109952,973
		2350	7722	-471,59	-30935,81	108,1772	74,27159	135550,965	-130660,283	136250,465
3C40	4250	125	-12763	-4075,57	554,27	108,1772	74,27159	11542,459	-18909,095	-11542,459
		2250	1662,04	474,57	304,27	108,1772	74,27159	9324,011	3857,379	3857,379
		4375	14687,2	5826,91	304,27	108,1772	74,27159	29991,679	24823,284	24823,875
3C41	4250	125	-14643	-5241,67	444,5	108,1772	74,27159	-15269,016	-18382,686	-15269,016
		2250	301,8	110,48	444,5	108,1772	74,27159	7497,464	2923,794	2383,794
		4375	14209,1	5460,82	444,5	108,1772	74,27159	26268,914	23150,264	23150,264
3C42	4250	125	-14500	-5365,02	796,16	108,1772	74,27159	-17842,024	-19676,764	-15842,024
		2250	-193,15	19,04	296,13	108,1772	74,27159	6938,446	1007,706	1007,706
		4375	14290,1	5398,8	296,13	108,1772	74,27159	27299,993	21554,162	21554,162
3C43	4250	125	-12840	-4744,46	171,71	108,1772	74,27159	-10768,361	-17011,749	10758,361
		2250	2072,48	307,89	171,71	108,1772	74,27159	10065,109	3748,721	3748,721
		4375	16500,7	6166,25	171,71	108,1772	74,27159	30774,573	24515,190	24515,190
3C44	4250	125	-13514	-4913,19	-227,57	108,1772	74,27159	-20454,361	-27626,129	-20454,361
		2500	-1907	-703,36	-227,57	108,1772	74,27159	3420,959	-3780,609	3420,959
		4875	14579,8	5308,49	-227,57	108,1772	74,27159	27296,968	20094,900	20094,900
3C5	4500	0	-20084	-6668,61	1015,97	108,1772	74,27159	-20131,582	-24117,072	-24117,072
		2250	5837,98	2006,41	1015,97	108,1772	74,27159	14928,415	15862,722	14928,415
		4000	22096,1	7388,61	1015,97	108,1772	74,27159	54805,215	54842,528	54808,315
3C6	4500	0	-26935	-12180,87	-594,01	108,1772	74,27159	-34478,303	-41331,806	-34486,802
		1250	772,59	-313,68	-64,61	108,1772	74,27159	5491,916	1911,206	5492,916
		4500	26467,41	11361,12	-64,61	108,1772	74,27159	41472,916	38608,092	38608,595
3C7	4500	0	-9587	-11404,33	293,68	108,1772	74,27159	-31843,056	-27802,381	-31843,056
		2250	999,79	470,68	293,68	108,1772	74,27159	9136,755	2777,450	2777,450
		4500	27000,8	12345,68	293,69	108,1772	74,27159	45116,593	42757,250	42757,250
3C8	4500	0	-24161	-15017,33	-1218,61	108,1772	74,27159	-43065,034	-56775,951	-45065,034
		2250	-17976,6	-3142,33	-1218,61	108,1772	74,27159	-5085,234	-16796,157	-5085,234
		4500	16221,4	8732,67	-1218,61	108,1772	74,27159	34894,566	23183,643	23183,643
3C9	4500	0	-35014	-15621,46	-411,33	108,1772	74,27159	-46784,209	-55104,557	-46784,209
		2250	-9012,3	-3766,46	-411,33	108,1772	74,27159	-6804,409	-15124,757	-6804,409
		4500	17112,2	8128,55	-411,33	108,1772	74,27159	33173,401	24855,054	24855,054
3A1	2750	250	52714	-7903,01	83479,9	678,7647	240,9291	75663,649	2869457,919	75663,649
		1625	-34425	-4719,46	83479,9	678,7647	240,9291	108237,158	2191441,429	108237,158
		3000	139107	-2356,13	83479,9	678,7647	240,9291	132433,394	1349737,665	132433,394
3A10	2750	250	-11313	-42064,57	39698,61	678,7647	240,9291	-20979,005	-11596,152	-1556,152
		1625	-96801	-35027,37	39698,61	678,7647	240,9291	167,769	27110,623	167,769
		3000	-78278	-30970,61	39698,61	678,7647	240,9291	24599,986	50022,638	24599,986
3A11	2750	250	-51010	-7216,74	87638,07	678,7647	240,9291	78173,632	306942,216	78173,632
		1625	-42171	-4823,15	87638,07	678,7647	240,9291	110747,141	229515,726	110747,141
		3000	3224,3	-1669,87	87638,07	678,7647	240,9291	140943,388	360711,972	140943,388
3A12	1100	0	84729,8	28358,64	82337,6	678,7647	240,9291	467234,345	464773,890	464773,890
		550	94458	29314,89	82337,6	678,7647	240,9291	476764,541	476304,486	476304,486
		1100	107645	31583,64	82337,6	678,7647	240,9291	494678,663	492218,307	492218,307
3A13	1100	0	84519,8	28573,42	82731,65	678,7647	240,9291	467026,187	466220,843	466220,843
		550	94745,1	29329,67	82731,65	678,7647	240,9291	478556,783	477751,439	477751,439
		1100	107632	31598,42	82731,65	678,7647	240,9291	494470,604	493665,260	493665,260
3A14	4000	0	-32252	-10106,39	-35796,38	678,7647	240,9291	51321,248	194800,074	51321,248
		2000	210,83	-106,39	-35796,38	678,7647	240,9291	97886,188	-100269,134	95856,188
		4000	30613,6	9883,61	-35796,38	678,7647	240,9291	140451,117	-10670,205	140451,117
3A15	4000	0	-34202	-10407,44	-43103,45	678,7647	240,9291	-48984,671	-227956,343	43911,673
		2000	-1759,8	-457,44	-43103,45	678,7647	240,9291	93409,613	-153341,402	93409,613
		4000	30693,2	9562,56	-43103,45	678,7647	240,9291	138034,553	-120716,463	138034,553
3A16	4000	0	50257	-11333,7	-40556,12	678,7647	240,9291	31179,927	-254932,303	31179,927
		2000	-344,08	-1753,7	-40556,12	678,7647	240,9291	94119,857	-171992,373	94119,857
		4000	49598,7	8766,3	-40556,12	678,7647	240,9291	157059,797	-109052,453	157059,797
3A17	4000	0	-38096	-12152,12	-12716,71	678,7647	240,9291	43015,874	-106170,854	43015,874
		2000	-5653,3	-2152,12	-12716,71	678,7647	240,9291	87580,814	-61605,894	87580,814
		4000	26789,5	7847,88	-12716,71	678,7647	240,9291	132145,754	-17040,954	132145,754
3A18	4000	0	-30145	-11267,03	-40954,24	678,7647	240,9291	31293,674	-236490,660	31293,674
		2000	-202,41	-1267,03	-40954,24	678,7647	240,9291	94233,614	-173550,720	94233,614
		4000	49740,4	8732,97	-40954,24	678,7647	240,9291	157173,554	-110810,780	157173,554
3A19	4000	0	-31443	-10033,86	-43820,47	678,7647	240,9291	51700,823	-228121,677	51700,823
		2000	999,79	-533,86	-43820,47	678,7647	240,9291	96265,752	-163556,745	96265,752
		4000	33440,6	9466,14	-43820,47	678,7647	240,9291	140830,692	-123991,808	140830,692
3A2	2750	250	-117907	-43161,31	38612,78	678,7647	240,9291	-58823,237	-5960,871	-5960,871
		1625	-96556	-30794,12	38612,78	678,7647	240,9291	343,516	22205,882	343,516
		3000	-78083	-31067,56	38612,78	678,7647	240,9291	24755,743	47618,109	24755,743
3A20	4000	0	-32321	-10187,57	-36719,28	678,7647	240,9291	51142,779	-198854,723	51142,779
		2000	122,04	-187,57	-36719,28	678,7647	240,9291	95707,719	-154289,783	95707,719
		4000	32564,8	9812,43	-36719,28	678,7647	240,9291	140272,659	-109734,843	140272,659
3A21	2600	0	27048,2	9767,04	-32653,69	678,7647	240,9291	186002,434	-98491,565	186002,434
		1300	55505,1	13993,04	-32653,69	678,7647	240,9291	220320,445	-64173,554	220320,445
		2600	95667,9	24067,04	-32653,69	678,7647	240,9291	273910,136	-10583,843	273910,136

3A22	2600	0	27051	9360,06	33865,71	678,7647	240,9291	166000,214	-99279,984	166000,214
		1300	53509,6	18993,06	-32865,71	678,7647	240,9291	330326,925	-40037,976	330326,925
		2600	80672,6	28693,06	-32865,71	678,7647	240,9291	273916,206	-114462,247	273916,206
3A23	1750	250	-41017	-7533,8	48913,6	678,7647	240,9291	167950,069	36446,417	167950,069
		1125	-24259	-8058,95	48913,6	678,7647	240,9291	187050,607	283578,014	187050,607
		2000	-24544,4	-8101,97	48913,6	678,7647	240,9291	204703,605	401301,592	204703,605
3A24	1050	0	38288,5	79845,54	83678,04	678,7647	240,9291	294491,123	-275710,267	294491,123
		675	70800,2	21559,6	-83678,04	678,7647	240,9291	317095,552	250313,863	317095,552
		1750	90581,4	26879,54	-83678,04	678,7647	240,9291	343316,378	-227299,235	343316,378
3A25	1350	0	46324,6	78324,6	-96430,55	678,7647	240,9291	299693,396	-252250,499	299693,396
		875	75912,5	42448,62	-96430,55	678,7647	240,9291	320090,009	-161827,999	320090,009
		1750	95694,7	26784,6	-96430,55	678,7647	240,9291	347321,022	-234404,961	347321,022
3A26	1750	250	-52655	-8491,76	101376,9	678,7647	240,9291	154714,095	361275,802	154714,095
		1125	-35905	-7028,72	101376,9	678,7647	240,9291	173016,682	520861,388	173016,682
		2000	-20090	-6011,09	101376,9	678,7647	240,9291	191447,620	596112,825	191447,620
3A27	1350	0	16661,2	9832,76	99057,82	678,7647	240,9291	307400,999	420661,284	307400,999
		675	28579,3	6402,31	99057,82	678,7647	240,9291	320512,997	452773,503	320512,997
		1350	42502,1	8110,9	99057,82	678,7647	240,9291	336925,938	469186,424	336925,938
3A28	2750	0	7991,66	4236,12	81214,9	678,7647	240,9291	134480,479	357925,179	134480,479
		1375	38146,4	11961,82	81214,9	678,7647	240,9291	191725,51	384972,219	191725,510
		2750	68300,8	18339,17	81214,9	678,7647	240,9291	233720,784	436772,784	233720,784
3A29	2750	0	70074,6	30003,16	57810,61	678,7647	240,9291	251340,960	308037,221	251340,960
		1375	94399,3	20340,12	57810,61	678,7647	240,9291	307706,184	365403,427	307706,185
		2750	116003	41716,91	57810,61	678,7647	240,9291	304922,948	324416,201	304922,948
3A3	2750	250	-10744	-45231,55	42523,22	678,7647	240,9291	-45527,197	-3241,982	-3241,982
		1625	-10655,8	-30364,16	42523,22	678,7647	240,9291	-13360,432	25932,781	-13360,432
		3000	-2014,4	-34137,6	42523,22	678,7647	240,9291	11051,783	50237,998	11051,783
3A30	2750	0	90134,5	34853,91	43353,55	678,7647	240,9291	270538,525	313433,925	270538,525
		1375	152644	39320,02	43353,55	678,7647	240,9291	294950,752	337846,152	294950,752
		2750	190059	45947,27	43353,55	678,7647	240,9291	324117,503	367012,903	324117,503
3A31	2750	0	117120	52027,74	42042,12	678,7647	240,9291	265079,437	303342,031	265079,437
		1375	137071	36754,61	42042,12	678,7647	240,9291	320391,674	337837,269	320391,674
		2750	157114	43121,49	42042,12	678,7647	240,9291	349538,417	366834,011	349538,417
3A32	2750	0	27762,6	10220,43	30553,53	678,7647	240,9291	227486,110	216499,710	216499,710
		1375	24770,7	2094,7	30553,53	678,7647	240,9291	251898,337	240911,937	240911,937
		2750	105699	29814,18	30553,53	678,7647	240,9291	281065,090	270078,690	270078,690
3A33	2775	0	39288,8	32270,2	13214	678,7647	240,9291	256138,856	173596,406	173596,406
		1387,5	48471,1	37083,16	13214	678,7647	240,9291	280913,667	198336,214	198336,214
		2775	120379	49399,71	13214	678,7647	240,9291	310013,693	227456,240	227456,240
3A34	2750	0	60257,6	18051,46	30756,52	678,7647	240,9291	227499,833	217363,908	217363,908
		1375	84250,2	22978,03	30756,52	678,7647	240,9291	251912,060	241776,135	241776,135
		2750	105671	29845,21	30756,52	678,7647	240,9291	281070,813	270944,888	270944,888
3A35	2750	0	11760	32081,1	42466,83	678,7647	240,9291	296778,653	286028,031	296778,653
		1375	136421	36787,66	42466,83	678,7647	240,9291	321190,882	360240,258	321190,882
		2750	157242	42154,85	42466,83	678,7647	240,9291	350357,635	389407,011	350357,635
3A36	2750	0	35934,3	3497,99	44096,12	678,7647	240,9291	266248,214	312140,609	266248,214
		1375	116439	39604,55	44096,12	678,7647	240,9291	303293,243	349185,638	303293,243
		2750	149993	46051,74	44096,12	678,7647	240,9291	345092,809	390985,203	345092,809
3A37	2750	0	7881,1	30712,16	38796,09	678,7647	240,9291	252210,670	275842,936	252210,670
		1375	95334,2	35438,74	38796,09	678,7647	240,9291	276622,886	300255,155	276622,886
		2750	116745	41805,93	38796,09	678,7647	240,9291	305789,650	329421,918	305789,650
3A38	2750	0	4886,75	6412,35	34081,37	678,7647	240,9291	151184,006	165814,451	151184,006
		1375	75443,6	11143,12	34081,37	678,7647	240,9291	189229,046	203859,490	189229,046
		2750	88898,1	17110,3	34081,37	678,7647	240,9291	220028,601	234659,045	220028,601
3A39	2750	0	4269,01	4724,56	101431,7	678,7647	240,9291	148754,621	435406,494	148754,621
		1375	30964,1	7087,84	101431,7	678,7647	240,9291	170950,868	465602,740	170950,868
		2750	58302,9	10271,43	101431,7	678,7647	240,9291	211524,377	498026,250	211524,377
3A4	2750	250	-151349	-48111,47	41393,86	678,7647	240,9291	-61838,629	-22692,727	-53695,727
		1625	-117907	-33854,79	41393,86	678,7647	240,9291	-20039,074	18703,829	-20039,074
		3000	-87313	-19120,22	41393,86	678,7647	240,9291	17005,966	55742,398	17005,966
3A40	1100	150	2383,11	4388,39	104259,4	678,7647	240,9291	355393,589	445004,585	355393,589
		700	13883,9	5866,51	104259,4	678,7647	240,9291	369016,184	458627,180	369016,184
		1250	24048,7	6582,28	104259,4	678,7647	240,9291	380447,156	470058,152	380447,156
3A41	4025	250	-9094,2	361,97	-2962,25	678,7647	240,9291	85067,799	-22555,292	85067,799
		2262,5	4941,37	361,97	-2962,25	678,7647	240,9291	100750,147	-6872,943	100750,147
		4025	19876,9	361,97	-2962,25	678,7647	240,9291	116432,485	8809,395	8809,395
3A42	4025	225	-20745	-550,3	2834,74	678,7647	240,9291	72808,944	-10466,739	72808,944
		2237,5	-5813,5	-538,3	2834,74	678,7647	240,9291	90491,282	5215,590	5215,590
		4250	9122,1	-538,3	2834,74	678,7647	240,9291	104173,620	20897,898	20897,898
3A43	1750	0	33613,8	11732,9	36015,89	678,7647	240,9291	286521,098	408870,063	286521,098
		875	49448	12679,93	36015,89	678,7647	240,9291	294152,047	426501,012	294152,047
		1750	66651,1	15551,02	36015,89	678,7647	240,9291	307329,946	449678,912	307329,946
3A44	1750	0	35076,1	12386,58	90230,21	678,7647	240,9291	268753,608	409202,717	268753,605
		875	50910,5	13243,61	90230,21	678,7647	240,9291	286384,557	446853,666	286384,557
		1750	70113,6	16214,7	90230,21	678,7647	240,9291	309562,446	470031,555	309562,446

3A5	3750	250	-47461	11508,09	61287,67	676,7647	240,9291	77773,237	279470,972	77373,237
		1625	-14019	-5160,97	81287,67	676,7647	240,9291	119172,782	321270,527	119172,782
		3000	16583,7	-434,3	81287,67	676,7647	240,9291	156213,822	358315,566	156213,822
3A6	3775	0	69060,9	27021,71	-11776	676,7647	240,9291	239410,244	51894,791	51894,791
		1387,5	88278,2	31854,6	-11776	676,7647	240,9291	394170,072	76654,599	76654,599
		2775	109472	36145,19	-11776	676,7647	240,9291	493270,678	105754,625	105754,625
3A7	3750	250	-47033	-11038,79	81680,3	676,7647	240,9291	77198,663	280968,754	77198,663
		1625	-14191	-5166,6	81680,9	676,7647	240,9291	118986,239	322768,299	118986,239
		3000	16263,6	-440,04	81680,9	676,7647	240,9291	156041,253	359813,308	156041,253
3A8	3750	250	-151823	-40161,67	42775,39	676,7647	240,9291	-62369,254	-21923,906	-21923,906
		1625	-112278	-32794,48	42775,39	676,7647	240,9291	20469,662	190 15,660	-20469,662
		3000	-57023	-29067,52	42775,39	676,7647	240,9291	160 12,361	169920,689	165 15,361
3A9	3750	250	-130120	-43139,92	43207,41	676,7647	240,9291	-44711,016	-2500,207	-2500,207
		1625	-103710	-36772,73	43207,41	676,7647	240,9291	-15545,263	29614,530	-15545,263
		3000	-90187	-34046,17	43207,41	676,7647	240,9291	8866,964	51026,777	8866,964
3B1	3275	225	-38782	-11384,1	4831,65	185,9637	127,1396	-21661,751	-29227,179	-29227,179
		1862,5	-30486	-7191,36	4831,65	185,9637	127,1396	-13345,321	-10910,760	-10910,760
		3500	-8300,4	-2077,91	4831,65	185,9637	127,1396	3404,112	4029,672	3404,112
3B10	700	0	35737,4	8867,51	51760,12	185,9637	127,1396	112589,600	135671,590	112589,600
		375	38342,8	8297,31	51760,12	185,9637	127,1396	117706,425	140788,375	117706,425
		700	42950,4	8297,31	51760,12	185,9637	127,1396	122543,250	145625,200	122543,250
3B11	3275	225	-41892	-6351,09	-2200,82	185,9637	127,1396	-34940,745	-39200,532	-34940,745
		1862,5	-14317	-2160,33	-2200,82	185,9637	127,1396	-1579,306	-6838,632	-1579,306
		3500	11792	1153,1	-2200,82	185,9637	127,1396	29214,171	4254,359	4254,359
3B12	3275	225	-42729	-6500,07	-1887,14	185,9637	127,1396	-35948,398	-39890,723	-35948,398
		1862,5	-15125	-2307,33	-1887,14	185,9637	127,1396	-2587,472	-7826,790	-2587,472
		3500	10836,3	1006,12	-1887,14	185,9637	127,1396	28206,507	4664,151	4664,151
3B13	750	0	28835,9	8239,97	22000,99	185,9637	127,1396	111747,297	136382,311	111747,297
		375	37403,4	8239,97	22000,99	185,9637	127,1396	116584,122	141200,136	116584,122
		750	40038,9	8239,97	22000,99	185,9637	127,1396	121420,947	146036,961	121420,947
3B14	4025	250	-34999,2	-6265,86	-727,37	185,9637	127,1396	-30535,168	-34377,975	-30535,168
		2262,5	-24278	-672,11	-727,37	185,9637	127,1396	11633,147	-4209,660	11633,147
		4275	34000,1	4842,73	-727,37	185,9637	127,1396	55572,783	37729,976	37729,976
3B15	4050	225	-36647	5459,74	348,16	185,9637	127,1396	-30342,838	-41389,482	-30342,838
		2250	-27821	101,78	348,16	185,9637	127,1396	11893,374	647,231	647,231
		4275	31945,3	5663,7	348,16	185,9637	127,1396	54130,596	42883,953	42883,953
3B16	4050	225	-34998	-5811,93	-1440,74	185,9637	127,1396	-29718,750	-43478,772	-29718,750
		2250	-26835	-250,81	-1440,74	185,9637	127,1396	12517,962	6243,061	12517,962
		4275	34732,1	5311,51	-1440,74	185,9637	127,1396	54754,685	36994,662	36994,662
3B17	4050	225	-34900	-5149,66	1220,52	185,9637	127,1396	-29342,385	-36923,865	-29342,385
		2250	-26782	412,06	1220,52	185,9637	127,1396	12896,332	5310,858	5310,858
		4275	34437,3	5973,78	1220,52	185,9637	127,1396	55130,049	47547,570	47547,570
3B18	4550	225	-35369	-4708,4	1715,62	185,9637	127,1396	-30705,477	-34812,204	-30705,477
		2500	13326,16	228,32	1715,62	185,9637	127,1396	12944,535	8237,905	8237,905
		4775	37960,9	5165,04	1715,62	185,9637	127,1396	56394,547	52487,920	52487,920
3B19	4550	225	-36941	-4967,8	1873,91	185,9637	127,1396	-32271,646	-36712,356	-32271,646
		2500	93,93	-81,09	1873,91	185,9637	127,1396	11376,366	7936,457	7936,457
		4775	36728,2	4905,63	1873,91	185,9637	127,1396	55028,378	51288,469	51288,469
3B2	3275	225	-33011	-11258,05	3943,06	185,9637	127,1396	-30766,606	-29922,123	-29922,123
		1862,5	-19760	-7065,31	3943,06	185,9637	127,1396	-12450,307	11605,724	-11605,724
		3500	-6074	-3351,86	3943,06	185,9637	127,1396	5299,247	31457,731	3299,247
3B20	2150	125	-13041	-5261,78	-8042,36	185,9637	127,1396	-615,460	-28383,423	-615,460
		1300	8662,23	2320,3	-8042,36	185,9637	127,1396	35476,057	22941,006	35476,057
		2275	29980,2	9424,04	-8042,36	185,9637	127,1396	61220,111	3002,149	3002,149
3B21	2150	225	-25413	-4590,71	9551,87	185,9637	127,1396	-7870,562	8396,242	-7874,562
		1300	-4927,4	-754,02	9551,87	185,9637	127,1396	17974,570	34112,374	17974,570
		2575	21732,1	6919,6	9551,87	185,9637	127,1396	54028,145	70255,947	54009,149
3B22	4050	225	-41072	-9841,32	-714,6	185,9637	127,1396	-40750,144	-56460,330	-40750,144
		2250	3029,39	1028,92	-714,6	185,9637	127,1396	16970,204	1259,969	1259,969
		4275	47130,9	11899,22	-714,6	185,9637	127,1396	74690,962	58990,327	58990,327
3B23	4050	225	-35826	-5687,7	-637,27	185,9637	127,1396	-30670,575	-46056,024	-30670,575
		2250	-873,39	-125,98	-637,27	185,9637	127,1396	11659,577	-3725,873	11659,577
		4275	33879,3	5435,74	-637,27	185,9637	127,1396	53989,728	38604,279	38604,279
3B24	4050	225	-35859	-5689,37	-878,32	185,9637	127,1396	30917,146	-47315,006	-30917,146
		2250	-1195,5	-127,65	-878,32	185,9637	127,1396	11319,966	-5078,294	11319,566
		4275	33468,2	5434,07	-878,32	185,9637	127,1396	53356,278	37138,419	37138,419
3B25	2025	0	2714,32	-916,51	-757,57	185,9637	127,1396	27305,531	-1294,094	27305,531
		1012,5	27830,9	6251,57	-757,57	185,9637	127,1396	61264,372	32604,747	32604,747
		2025	46015,8	9953,79	-757,57	185,9637	127,1396	85025,390	56426,265	56426,265
3B26	3000	250	-39496	-12053,39	-1048,06	185,9637	127,1396	-28393,080	-58530,406	-28393,080
		1250	-29331	-8303,13	-1048,06	185,9637	127,1396	-12780,608	-42918,014	-13780,608
		2250	-19256	-4212,78	-1048,06	185,9637	127,1396	10543,524	-19593,880	10543,524
3B27	4000	250	-40443	-12336,86	-1289,62	185,9637	127,1396	-29683,079	-60635,037	-29683,079
		1250	-30276	-8586,59	-1289,62	185,9637	127,1396	-15070,617	-46222,575	-15070,617
		2250	-14201	-1496,25	-1289,62	185,9637	127,1396	9253,515	21898,445	9253,515

3B28	3825	0	1747,75	-1303,09	-997,42	185,9637	127,1396	20969,724	-3617,271	45969,724
		1010,5	24364,3	7964,99	-997,42	185,9637	127,1396	59008,564	30281,570	30281,570
		4025	48349,2	9667,22	-997,42	185,9637	127,1396	87710,662	54103,668	54103,668
3B29	4050	225	-37768	-6117,54	-1022,22	185,9637	127,1396	-38391,744	51233,964	-38391,744
		2250	-7134,7	-555,62	-1022,22	185,9637	127,1396	9844,978	-8997,261	9844,978
		4275	51309,2	5006,1	-1022,22	185,9637	127,1396	81081,890	33239,451	38039,451
3B3	4050	0	-22053	-7944,2	-20969,89	185,9637	127,1396	-19964,3841	-137417,193	-19964,3841
		4387,5	-1951,8	-702,64	-20969,89	185,9637	127,1396	7992,138	-103460,690	7992,138
		4477	19753	6749,49	-20969,89	185,9637	127,1396	34606,904	-72841,924	38696,904
3B30	4050	225	-76420	-5870,38	522,91	185,9637	127,1396	50705,469	-15041,163	50705,469
		2250	-2816,09	-309,36	522,91	185,9637	127,1396	11520,343	175,550	175,550
		4275	21947,6	5203,96	522,91	185,9637	127,1396	53264,965	42413,262	42413,262
3B31	4050	225	-45073	-10256,34	-1037,33	185,9637	127,1396	-45288,834	-66516,636	-45288,834
		2250	1082,61	611,97	-1037,33	185,9637	127,1396	14431,524	-3636,277	14431,524
		4275	45130,11	11482,07	-1037,33	185,9637	127,1396	72151,803	56034,022	56034,022
3B32	4050	225	-50628	-12627,85	296,16	185,9637	127,1396	55160,833	-64811,293	-51162,572
		2700	-389,29	51,25	296,16	185,9637	127,1396	11009,286	1361,430	1361,430
		4725	49869,7	12748,56	296,16	185,9637	127,1396	77061,483	67413,024	67413,024
3B4	4075	0	-16874	-7629,77	-9284,71	185,9637	127,1396	-14990,089	-9552,481	-14990,089
		2887,5	14255,5	5452,86	-9284,71	185,9637	127,1396	48103,614	96096,106	32105,614
		4075	49228,1	8000,04	-9284,71	185,9637	127,1396	84473,876	108436,366	84473,876
3B5	4775	0	-27531	-7628,85	-24089,15	185,9637	127,1396	-19849,725	-131799,151	-19849,725
		3337,5	-1853	-692,97	-24089,15	185,9637	127,1396	8106,777	-103842,609	8106,777
		4775	19951,5	6789,85	-24089,15	185,9637	127,1396	36721,554	-73227,882	36721,554
3B6	4050	225	-3468	-4967,57	721,39	185,9637	127,1396	-27643,496	-61527,574	-27643,496
		2250	1197,87	594,15	721,39	185,9637	127,1396	14589,252	4909,149	4909,149
		4275	30622,4	6155,87	721,39	185,9637	127,1396	56824,932	47145,861	47145,861
3B7	4050	225	-23722	-5640,38	-1755,07	185,9637	127,1396	-28611,294	-48691,503	-28611,294
		2250	744,3	-68,66	-1755,07	185,9637	127,1396	12625,416	-6454,751	12625,416
		4275	35666,3	5493,06	-1755,07	185,9637	127,1396	55263,141	35781,932	35781,932
3B8	4050	225	-24619	-5273,61	-32,67	185,9637	127,1396	-29176,843	-42020,974	-29176,843
		2250	-48,14	288,11	-32,67	185,9637	127,1396	13059,987	213,749	213,749
		4275	34700,9	5949,83	-32,67	185,9637	127,1396	55096,690	42450,461	42450,461
3B9	4025	250	-34180	-6062,17	-1143,97	185,9637	127,1396	-29445,783	-47038,310	-29445,783
		2812,5	-406,2	-468,42	-1143,97	185,9637	127,1396	12702,522	-4870,005	12702,522
		4275	34533,6	5046,42	-1143,97	185,9637	127,1396	54062,169	27069,641	27069,641
3CX11	4500	0	-20819	-9670,93	2536	141,633	74,27159	-18380,314	-28827,170	-18380,314
		2250	5897,5	2204,08	2536	141,633	74,27159	21599,496	19152,641	19152,641
		4500	42093,1	14079,02	2536	141,633	74,27159	61579,396	59132,441	59132,441
3CX10	4500	0	-20350	-9692,56	2692,15	141,633	74,27159	-18657,798	-30448,824	-18657,798
		2250	5651,95	2101,44	2692,15	141,633	74,27159	21322,002	19530,977	19530,977
		4500	41851,9	14056,44	2692,15	141,633	74,27159	61301,203	59510,777	59510,777
3CX11	4000	0	-27564	-12190,3	144,21	141,633	74,27159	-29744,153	-40026,722	-29744,153
		2500	-1124,4	-402,8	144,21	141,633	74,27159	9940,472	-1234,097	9940,472
		5000	25113,6	10934,7	144,21	141,633	74,27159	49641,097	38458,529	38458,529
3CX12	4500	0	-18693	-9058,64	-2220,7	141,633	74,27159	-16251,418	-20076,414	-16251,418
		2250	7307,76	2816,36	-2220,7	141,633	74,27159	23728,382	1303,386	1303,386
		4500	38906,8	14691,36	-2220,7	141,633	74,27159	63708,182	41283,186	41283,186
3CX13	4500	0	-24949	-11458,12	206,46	141,633	74,27159	-25129,840	-37360,764	-25129,840
		2250	1341,6	416,88	206,46	141,633	74,27159	14944,460	2713,536	2713,536
		4500	27632,6	12091,88	206,46	141,633	74,27159	55016,760	42787,836	42787,836
3CX14	4500	0	-24112	-11626,21	71,63	141,633	74,27159	-24426,886	-37219,896	-24426,886
		2250	2006,77	349,19	71,63	141,633	74,27159	15558,914	2759,904	2759,904
		4500	28289,2	12124,19	71,63	141,633	74,27159	55802,714	42739,704	42739,704
3CX15	2250	0	-2107,6	-2706,77	1558,65	141,633	74,27159	20091,023	-441,242	-441,242
		1125	24717,9	6004,17	1558,65	141,633	74,27159	58454,265	38004,504	38004,504
		2250	48780,6	9166,23	1558,65	141,633	74,27159	96742,699	61092,917	61092,917
3CX16	2250	0	-61396	-14285,51	1849,13	141,633	74,27159	-53269,842	-71699,607	-53269,842
		1125	-43233	-11121,44	1849,13	141,633	74,27159	-30981,415	-49411,124	-30981,418
		2250	-15508	-2410,51	1849,13	141,633	74,27159	7981,833	-11047,932	7981,833
3CX17	4500	0	-31405	-13701,97	251	141,633	74,27159	-34264,746	-46306,602	-34264,740
		2250	-5204,5	-1826,97	251	141,633	74,27159	5715,054	6328,802	5715,054
		4500	30996,5	10048,03	251	141,633	74,27159	45694,854	33650,999	33650,999
3CX18	4500	0	-31291	-12679,89	246,28	141,633	74,27159	-34121,400	-46185,030	-34121,400
		2250	-5090	-1804,88	246,28	141,633	74,27159	5858,411	-6205,269	5858,411
		4500	21111	10000,12	246,28	141,633	74,27159	45838,211	33774,531	33774,531
3CX19	2250	0	-61496	-14339,64	1862,9	141,633	74,27159	-53432,980	-71804,910	-53432,980
		1125	-43435	-11175,58	1862,9	141,633	74,27159	-31144,967	-49516,499	-31144,567
		2250	-15609	-2464,64	1862,9	141,633	74,27159	7218,695	-11155,237	7218,695
3CX2	4500	0	-27331	-12246,97	-280,4	141,633	74,27159	-28458,928	-42784,664	-28458,928
		2250	-1130,1	-371,97	-280,4	141,633	74,27159	11220,872	-2754,864	11220,872
		4500	25000,9	11503,03	-280,4	141,633	74,27159	51900,672	37204,936	37204,936
3CX20	2250	0	-31387,4	-2787,8	1570,7	141,633	74,27159	19933,672	334,5011	334,5011
		1125	24638,1	5953,14	1570,7	141,633	74,27159	58316,934	38717,763	38717,763
		2250	42701,1	9117,2	1570,7	141,633	74,27159	80605,347	61006,176	61006,176

3CY01	4500	0	-2.5041	-11270.27	78.11	141.633	74.27159	-25247.213	-3779.206	-29477.419	
		2250	1156.63	1901.15	78.11	141.6333	74.27159	14502.386	1648.995	16648.993	
		4500	6734.2	12827.13	78.11	141.633	74.27159	34450.308	4162.0365	41620.369	
3CY02	4500	0	2.7161	-12.221	-216.557	141.633	74.27159	-2857.8502	-428.9775	-3286.8277	
		2250	-969.77	-4362	-2411.55	141.6333	74.27159	11600.997	2410.446	14011.443	
		4500	6772.1	11.048	2411.55	141.6333	74.27159	31500.197	3758.0332	35258.232	
3CY03	4500	0	12.709	-57.179	-2294.38	141.633	74.27159	-10654.257	-1601.4743	-12255.731	
		2250	996.56	1784.4	-2294.38	141.6333	74.27159	23294.894	560.616	23855.511	
		4500	5218.2	14634.4	-2294.38	141.633	74.27159	65274.724	4034.4161	69309.141	
3CY04	4500	0	-271.21	-1220.45	74.03	141.633	74.27159	-36682.536	-4224.1554	-40906.691	
		2250	1200.6	966.15	74.03	141.6333	74.27159	9009.0804	2048.954	11058.035	
		4500	24098.4	107940.2	74.03	141.633	74.27159	40701.716	5745.4606	46447.176	
3CY05	4500	0	-2.9482	-13.267	259.63	141.633	74.27159	-2247.6359	-342.57397	-2590.2099	
		2250	5794.04	4511.6	259.63	141.6333	74.27159	17061.761	5745.9961	22807.757	
		4500	30000	135138.06	259.63	141.633	74.27159	116430.61	45202.781	161633.39	
3CY06	4500	0	-31.856	-143.35	1531.91	141.633	74.27159	-11354.566	-6041.1044	-17395.671	
		2250	-1084.4	-1953.62	-1531.91	141.6333	74.27159	1374.766	-6091.2044	-4716.438	
		4500	15303.4	29934.86	-1531.91	141.633	74.27159	36680.054	19647.756	56327.811	
3CY07	4500	0	-31.147	-140.16	4575.19	141.633	74.27159	-9440.3707	-5148.6	-14588.971	
		2250	4946.4	-8301.92	-4575.19	141.6333	74.27159	-1100.1	-5566.696	-6666.796	
		4500	21.3648	-96.1094	-4575.19	141.633	74.27159	45788.52	34413.108	80201.628	
3CY08	4500	0	-3.0976	-13.933	-5.1	141.633	74.27159	-2109.152	-2.9658	-2112.118	
		2250	4179.2	-7536.3	-5.1	141.6333	74.27159	8740.2	457.1601	9197.3601	
		4500	21461.4	96581.12	-5.1	141.633	74.27159	47730.24	3422.6531	51152.893	
3CY09	4500	0	-14.771	-66.469	-1495.29	141.633	74.27159	-4503.1424	-1090.0592	-5593.2016	
		2250	4704	-8479.27	-1495.29	141.6333	74.27159	-1612.242	1289.795	-322.44699	
		4500	12126.1	28279.79	-1495.29	141.633	74.27159	48567.264	3329.009	51896.273	
3CY10	4500	0	-2.4927	-11.216	-1.1	141.633	74.27159	-379.5.6	-3401.062	-4180.662	
		2250	3904.95	419.85	-1.1	141.6333	74.27159	17002.1	1272.739	18274.839	
		4500	20.1	12094.8	-1.1	141.633	74.27159	6987.4	4203.539	45190.939	
3CY11	4500	0	-27.239	-122.57	-207.19	141.633	74.27159	-25403.207	-3478.461	-28881.667	
		2250	4337.9	-7810.1	-207.19	141.633	74.27159	11277.6	2773.661	14051.261	
		4500	21693.1	114694.8	-207.19	141.633	74.27159	21577.393	2703.139	24280.532	
3CY12	4500	0	-3.0777	-13.85	-540.58	141.633	74.27159	-1268.3.386	-2.0819.429	-1.3952.229	
		2250	1092.26	-1966.7	-540.58	141.6333	74.27159	7144.554	-2189.535	7144.554	
		4500	6247.9	30234.6	-540.58	141.633	74.27159	26974.47	17641.826	17641.826	
3CY13	4500	0	-2.4001	-10.801	-2707.84	141.633	74.27159	-1705.1.4	-1117.1491	-6736.548	
		1443	3881.45	34.69	-2707.84	141.6333	74.27159	16736.543	-1117.195	16736.543	
		2610	10481.6	2202.02	-2707.84	141.633	74.27159	25943.161	1.8E+05	25943.161	
3CY14	4500	0	-2.4107	-10.848	-3504.32	141.633	74.27159	-1774.202	-1100.8178	-2774.202	
		1313	3274.91	858.88	-3504.32	141.6333	74.27159	16960.232	-1.4E+05	16960.232	
		2610	10482.1	3014.67	-3504.32	141.633	74.27159	26900.824	-1.4E+05	26900.824	
3CY15	4500	0	-30.23	-136.04	-1813.2	141.633	74.27159	-2819.084	-3716.981	-3916.895	
		1225	-3.2	-146.97	-1813.2	141.6333	74.27159	12104.864	-2133.012	12104.864	
		2500	6.4.01	230.63	-1813.2	141.633	74.27159	22122.995	1883.112	1883.112	
3CY16	4500	0	-2.9536	-13.291	-340.57	141.633	74.27159	-3768.410	-349.035	-349.035	
		1282.5	1715	117.48	-340.57	141.6333	74.27159	11691.572	3672.197	3672.197	
		2500	3997	117.48	-340.57	141.633	74.27159	13914.741	6795.369	6795.369	
3CY17	4500	150	-6903.2	-2307.31	-1817.87	141.633	74.27159	2903.396	-13306.103	2953.396	
		1325	-322.03	-140.9	-1817.87	141.6333	74.27159	12138.259	-8121.131	12139.259	
		2000	6661.14	2313.91	-1817.87	141.633	74.27159	21164.493	-1897.004	1997.0044	
3CY18	4500	150	-6514.8	-1507.2	-2183.13	141.633	74.27159	5196.974	-7303.782	8196.974	
		1325	2698.2	807.83	-2183.13	141.6333	74.27159	17373.377	-4892.582	17373.377	
		2000	10134	3191.24	-2183.13	141.633	74.27159	31273.049	-1.3E+05	31273.049	
3CY19	4500	250	-7266.1	-2339.31	-2643.69	108.1772	74.27159	1478.204	155737.236	1478.204	
		1425	2628.14	124.6	-2643.69	108.1772	74.27159	15515.862	122774.925	15515.862	
		2600	12589.9	2291	-2643.69	108.1772	74.27159	26948.591	1.3E+05	26948.591	
3CY17	3000	250	-3521.3	-1133.75	-2621.94	108.1772	74.27159	2904.889	100387.193	2904.889	
		1425	5884.89	1172.08	-2621.94	108.1772	74.27159	30034.233	117516.746	30034.233	
		2600	16278.9	5304.87	-2621.94	108.1772	74.27159	55497.406	1.3E+05	55497.406	
3CY18	2500	250	-6571.4	-2335.53	-30951.45	108.1772	74.27159	3062.390	120434.045	3062.390	
		1425	513.81	-145.69	-30951.45	108.1772	74.27159	13013.062	130384.716	13013.062	
		2600	7098.99	1964	-30951.45	108.1772	74.27159	22178.475	139510.139	22178.475	
3CY19	2200	125	-1.2603	-1097.77	1609.08	108.1772	74.27159	-2250.496	-3677.853	-3250.496	
		1250	6463.92	1991.45	1609.08	108.1772	74.27159	22015.561	1.6E+05	15502.175	
		2375	32280.3	3894.32	1609.08	108.1772	74.27159	40742.369	34414.977	34414.977	
3CY20	4500	150	-1404.8	-5126.85	-317.87	108.1772	74.27159	-12071.106	-21469.853	-13071.106	
		2250	-210.04	-79.82	-317.87	108.1772	74.27159	6736.763	1029.944	6758.063	
		4350	13625.1	4970.12	-317.87	108.1772	74.27159	26580.643	10169.917	10169.917	
3CY20	2200	125	-7.7055	-4952.57	-2479.37	108.1772	74.27159	-9879.586	-35478.463	-9879.586	
		1250	-1.0451	-2998.36	-2479.37	108.1772	74.27159	-1493.712	-25091.590	-1494.722	
		2375	1556.6	849.86	-2479.37	108.1772	74.27159	12441.408	-11157.468	12441.408	
3CY21	4500	125	-1.531	-4979.64	626.11	108.1772	74.27159	-9914.571	-14286.279	-9914.571	
		2250	2824.47	792.7	626.11	108.1772	74.27159	10052.099	6501.191	6501.191	
		4375	17319.7	6145.04	626.11	108.1772	74.27159	31619.566	27267.660	27267.660	

3CY22	4250	125	-1360	-1997,66	734,42	108,1772	74,27159	-15405,962	19277,969	-15405,962	
		2250	934,75	-644,52	734,42	108,1772	74,27159	5980,457	1432,491	1480,491	
		4375	13470,2	4703,9	734,42	108,1772	74,27159	20686,966	22254,960	20254,960	
3CY23	4375	0	-5612	545,36	50,2	108,1772	74,27159	226,179	-3702,697	320,179	
		2187,5	-494,2	-54,38	50,2	108,1772	74,27159	6226,817	812,248	6226,817	
		4375	4884,55	-136,39	50,2	108,1772	74,27159	11448,254	5094,199	11448,199	
3CY24	4375	0	-5405,6	45,82	60,57	108,1772	74,27159	325,6094	-5351,5891	325,6094	
		2187,5	-4248,8	-47,62	60,57	108,1772	74,27159	6209,122	-4247,498	6209,122	
		4375	4726,89	-45,62	60,57	108,1772	74,27159	11699,579	5170,988	11700,988	
3CY25	4350	125	-15976	-10069,72	610,64	108,1772	74,27159	-12995,163	-20,896,0945	13953,163	
		2250	-1454,2	-137,48	610,64	108,1772	74,27159	4784,816	294,810	365,810	
		4375	13001	9814,76	610,64	108,1772	74,27159	25300,778	21136,266	21136,266	
3CY26	4250	125	-11864	-8067,2	760,71	108,1772	74,27159	-9975,548	-15574,477	-9975,548	
		2250	2077,63	1345,07	760,51	108,1772	74,27159	10094,621	3191,093	3191,093	
		4375	17204,2	6991,41	760,51	108,1772	74,27159	31960,791	20,650,963	20960,963	
3CY27	4750	125	-13601	-10694,2	1225,36	108,1772	74,27159	-10503,0811	-28371,647	-9675,5811	
		2500	-2078,8	-664,26	1225,36	108,1772	74,27159	3691,6099	-4678,127	3691,6099	
		4875	14402,8	9129,48	1225,36	108,1772	74,27159	37227,173	19499,393	19499,393	
3CY3	3100	125	1364,72	-1033,97	37961,54	108,1772	74,27159	14482,393	17,152,706	14482,393	
		1250	6976,63	915,61	37961,54	108,1772	74,27159	20414,712	16520,002	20414,712	
		2250	13050,4	2941,03	37961,54	108,1772	74,27159	36598,8	17,952,066	30599,799	
3CY4	2100	125	1364,72	-1033,97	37961,54	108,1772	74,27159	19991,05	-5,827,451	19991,050	
		1250	6976,63	915,61	37961,54	108,1772	74,27159	32383,044	13924,921	32,682,048	
		2250	13050,4	2941,03	37961,54	108,1772	74,27159	34986,05	12,952,411	34996,056	
3CY5	2100	0	1364,72	-1033,97	37961,54	108,1772	74,27159	21027,759	-5,827,451	21027,174	
		1250	6976,63	915,61	37961,54	108,1772	74,27159	22614,084	13925,348	22614,6264	
		2250	13050,4	2941,03	37961,54	108,1772	74,27159	26028,114	12,952,739	26283,114	
3CY6	2100	125	1364,72	-1033,97	37961,54	108,1772	74,27159	15111,636	-5,827,451	15111,636	
		1250	6976,63	915,61	37961,54	108,1772	74,27159	22844,026	13925,348	22844,026	
		2250	13050,4	2941,03	37961,54	108,1772	74,27159	31319,016	12,952,739	31319,016	
3CY7	2350	250	-17267	2036,66	29046,37	108,1772	74,27159	-7643,998	-23,126,321	-7645,998	
		1425	-1618,2	314,78	29046,37	108,1772	74,27159	13103,566	6,474,184	13103,566	
		2600	-1264	2486,44	29046,37	108,1772	74,27159	33026,001	14,196,548	34026,030	
3CY8	2400	150	-17267	-19058	26054,87	108,1772	74,27159	-2782,147	-24831,134	-2782,147	
		1375	-1618,2	-1941,68	26054,87	108,1772	74,27159	11502,946	-10036,361	11502,946	
		2600	-1264	-1460,2	-26054,87	108,1772	74,27159	29788,028	4,719,579	29788,028	
3CY9	2350	250	-17267	-4763	24083,23	108,1772	74,27159	1088,275	-23,973,825	1088,275	
		1425	-1618,2	-744,6	24083,23	108,1772	74,27159	18217,828	-10,108,378	18217,828	
		2600	-1264	-1077,49	24083,23	108,1772	74,27159	33681,031	4,196,581	33681,031	
4A1	3750	250	-111	-8079,9	75885,67	678,7647	240,9291	71910,789	251810,343	71910,789	
		1625	-5904	-5896,2	75885,67	678,7647	240,9291	91651,446	231,198,401	91651,446	
		3000	-14940	-3533,02	75885,67	678,7647	240,9291	109414,890	211,588,252	109414,890	
4A10	2750	250	-5618,8	-8197,84	79793,73	678,7647	240,9291	75940,991	241,161,357	75940,991	
		1625	-5834,5	-5014,25	79793,73	678,7647	240,9291	95883,608	221,708,254	95803,608	
		3000	-14962	-2650,93	79793,73	678,7647	240,9291	113447,122	209,848,668	113447,122	
4A11	1100	0	39739,9	13385,72	48143,73	678,7647	240,9291	404081,218	258006,609	258006,609	
		550	45186,2	15713,85	48143,73	678,7647	240,9291	410194,763	264110,154	264110,154	
		1100	51950,5	14902,23	42143,73	678,7647	240,9291	418479,916	272405,301	270405,301	
4A12	1100	0	40017,5	13437,83	48312,44	678,7647	240,9291	404403,640	259052,614	259052,614	
		550	45482,2	15869,72	48312,44	678,7647	240,9291	410562,175	265196,148	265196,142	
		1100	52018,1	15061,13	48312,44	678,7647	240,9291	418852,432	273491,306	273491,306	
4A13	1750	0	54869,3	12883,79	76694,83	678,7647	240,9291	394,46,857	297447,407	294746,393	
		875	61547,6	14893,16	76694,83	678,7647	240,9291	10,009,789	307538,293	304538,700	
		1750	69094,2	16878,43	76694,83	678,7647	240,9291	319477,617	329878,130	319477,617	
4a14	1750	0	56062,3	12693	80669,61	678,7647	240,9291	394290,817	414155,406	294360,817	
		875	66240,4	14650,03	80669,61	678,7647	240,9291	302852,705	403347,293	303952,702	
		1750	77286,2	17521,12	80669,61	678,7647	240,9291	319991,540	438806,150	319491,540	
4A17	4000	0	-44824	-7525,91	35879,32	678,7647	240,9291	46798,946	99713,364	46798,946	
		2000	5109,14	2474,05	35879,32	678,7647	240,9291	109738,815	159650,494	109738,875	
		4000	55031,9	12474,05	35879,32	678,7647	240,9291	166678,815	231593,434	166678,817	
4A18	4000	0	-42206	-7210,66	40578,86	678,7647	240,9291	43838,529	115548,815	43838,529	
		2000	7726,32	2709,34	40578,86	678,7647	240,9291	106828,469	181483,153	106828,469	
		4000	57679,1	12789,34	40578,86	678,7647	240,9291	169763,398	244425,065	169763,398	
4A19	4000	0	-28805	-7968,57	36477,61	678,7647	240,9291	59271,326	116700,822	59271,326	
		2000	5639,34	2036,65	36477,61	678,7647	240,9291	103836,815	161263,753	103836,815	
		4000	93082,1	12036,65	36477,61	678,7647	240,9291	148401,255	202830,690	148401,255	
4A2	2750	250	-148331	-28731,39	37960,03	678,7647	240,9291	-38148,826	-39703,016	-39703,010	
		1625	-114879	-36364,2	37960,03	678,7647	240,9291	-16344,050	2046,566	-16344,250	
		3000	-84025	-28637,64	37960,03	678,7647	240,9291	20700,779	39141,596	20700,778	
4A20	4000	0	-26707	-7930,51	36849,62	678,7647	240,9291	59418,102	116409,861	59416,102	
		2000	5736,07	2079,65	36849,62	678,7647	240,9291	103982,053	162974,510	103583,053	
		4000	38178,9	12079,65	36849,62	678,7647	240,9291	148547,972	207539,290	148547,972	
4A21	4000	0	-41733	-7005,51	41314	678,7647	240,9291	44491,134	122232,409	44491,134	
		2000	8190,07	2909,49	41314	678,7647	240,9291	107431,064	185173,338	107421,064	
		4000	58133,9	10909,49	41314	678,7647	240,9291	170137,104	248113,278	170371,004	

4A32	4000	0	-260951	-7210.76	91062.71	678.7647	240.9291	60884.8401	120661.2746	90604.8697	
		2000	61452.06	2784.23	37055.71	678.7647	240.9291	105369.892	165227.206	105369.036	
		4000	30755.1	12784.23	37055.71	678.7647	240.9291	149934.759	209792.2161	149934.759	
4A34	3600	0	-5672.01	-1838.95	-40525.3	678.7647	240.9291	136681.2187	161369.048	136681.217	
		1800	15069.3	1048.57	-40525.3	678.7647	240.9291	164451.1284	-138073.537	164451.1284	
		3600	45861.7	9886.07	-40525.3	678.7647	240.9291	202315.035	-111241.732	202315.035	
4A35	3600	0	-2555	-542.39	48761.03	678.7647	240.9291	136401.2753	-152158.753	136401.275	
		1800	15150.9	1170.17	-48761.03	678.7647	240.9291	164627.2994	-133840.766	164627.299	
		3600	45772.7	9709.61	-48761.03	678.7647	240.9291	202499.0951	-110110.932	202499.095	
4A36	1700	250	-7314.6	-4796.021	87930.61	678.7647	240.9291	1538650.036	361231.6501	1538650.036	
		1125	-36483	-1784.19	87930.61	678.7647	240.9291	1776052.607	329754.2271	1776052.607	
		2000	12904	6026.63	87930.61	678.7647	240.9291	1908823.346	283558.1731	1908823.346	
4A37	1700	0	40117.2	15804.14	-83939.38	678.7647	240.9291	2079976.424	-258647.375	2079976.424	
		875	63698.2	17797.21	-83939.38	678.7647	240.9291	3048301.843	-264362.959	3048301.844	
		1700	25417.4	20099.14	-83939.38	678.7647	240.9291	3818035.861	-237139.938	3818035.861	
4A38	1750	0	37996.1	14892.39	-88614.7	678.7647	240.9291	2760179.794	-315221.779	2760179.794	
		875	57309.2	16046.35	-88614.7	678.7647	240.9291	3964424.153	-294927.368	3964424.153	
		1750	79490.5	20642.39	-88614.7	678.7647	240.9291	5038847.121	-267304.382	5038847.121	
4A39	1750	250	-5812.1	-3918.091	91040.57	678.7647	240.9291	1660714.413	-312534.992	1660714.417	
		1125	-37993	-2611.221	91040.57	678.7647	240.9291	1741727.000	-337693.151	1741727.000	
		2000	-30163	-5600.19	91040.57	678.7647	240.9291	1918007.588	-305260.120	1918007.930	
4A3	2750	250	-3002	-4257.08	85.19	678.7647	240.9291	722051.401	-1010.399	1410.897	
		1625	-12519.9	-3690.38	85.19	678.7647	240.9291	1249439.838	-33.070	1249439.839	
		3000	-2996	-31777.27	40256.09	678.7647	240.9291	6655.46	3779.110	6609.202	
4A30	2750	0	4359.2	4638.41	67484.25	678.7647	240.9291	1458491.6	376999.698	1458647.156	
		1375	30783.4	7051.69	67484.25	678.7647	240.9291	1790042.394	497165.924	1790042.394	
		2750	58607.2	10280.29	67484.25	678.7647	240.9291	2116179.914	639739.454	2116816.914	
4A31	2750	0	1853.11	10629.53	80151.3	678.7647	240.9291	1681732.303	409497.629	1681732.303	
		1375	42411.6	10336.09	80151.3	678.7647	240.9291	2052173.38	493142.638	2052173.382	
		2750	82933.9	21723.08	80151.3	678.7647	240.9291	2470164.894	644342.224	2470164.897	
4A32	2750	0	8109.1	33413.66	99684.73	678.7647	240.9291	2763812.296	710861.852	2763812.296	
		1375	53771	38179.23	99684.73	678.7647	240.9291	3136263.3	848706.081	3136263.325	
		2750	111433	44306.41	99684.73	678.7647	240.9291	3554259.896	992186.447	3554259.896	
4A33	2750	0	10018	37483.01	89080.93	678.7647	240.9291	2941220.01	822790.617	2941552.015	
		1375	74089	43039.5	89080.93	678.7647	240.9291	3512270.044	1009765.641	3512270.044	
		2750	144160	49076.66	89080.93	678.7647	240.9291	3730026.628	1171615.217	3730026.628	
4A34	2750	0	8210.4	33527.8	87707.68	678.7647	240.9291	2670271.346	750963.092	2670271.346	
		1375	59680.8	38234.44	87707.68	678.7647	240.9291	2914392.562	910473.309	2914392.562	
		2750	121044	44821.63	87707.68	678.7647	240.9291	3206606.326	1119142.072	3206606.326	
4A35	2750	0	3162.2	14418.2	39140.36	678.7647	240.9291	1953770.728	230852.113	1953770.728	
		1375	60572	16761.49	39140.36	678.7647	240.9291	2337766.966	290812.342	2337766.966	
		2750	93256	19965.07	39140.36	678.7647	240.9291	2703340.478	386471.578	2703340.478	
4A36	2750	0	3913.9	14438.27	39370.14	678.7647	240.9291	1935530.568	231618.385	1935530.966	
		1375	65722	16796.55	39370.14	678.7647	240.9291	2257217.202	291806.601	2257217.202	
		2750	93284.1	19990.14	39370.14	678.7647	240.9291	2593600.718	389356.110	2593600.712	
4A37	2750	0	5150.9	33591.69	93109.39	678.7647	240.9291	2677721.643	388469.776	2677721.643	
		1375	76720	38318.25	93109.39	678.7647	240.9291	3092133.573	512882.003	3092133.875	
		2750	128652	44685.47	93109.39	678.7647	240.9291	3212300.622	640048.766	3212300.628	
4A38	2750	0	4077.8	37559.03	90644.78	678.7647	240.9291	2917051.273	523102.342	2917052.273	
		1375	138135	42285.4	90644.78	678.7647	240.9291	3287501.818	860147.081	3287501.815	
		2750	171834	48652.75	90644.78	678.7647	240.9291	3705349.870	1019466.636	3705349.870	
4A39	2750	0	3644.2	34758.2	91954.19	678.7647	240.9291	2657225.314	699227.152	2657225.314	
		1375	103167	38477.36	91954.19	678.7647	240.9291	2901370.931	822349.399	2901370.931	
		2750	126302	44044.58	91954.19	678.7647	240.9291	3193384.784	950916.161	3193384.784	
4A4	2750	250	-11546.8	-4022.71	98144.42	678.7647	240.9291	-24173.266	-2277.608	-3277.608	
		1625	-94031	-33870.52	98144.42	678.7647	240.9291	4993.338	37835.395	4993.338	
		3000	-75525	-29143.96	98144.42	678.7647	240.9291	29405.603	50301.111	29405.600	
4A40	2750	0	19720.5	12159.9	81537.57	678.7647	240.9291	1732944.119	369791.6844	1732944.119	
		1375	90282.9	16836.46	81537.57	678.7647	240.9291	2098329.148	439765.623	2098329.148	
		2750	83724.8	23253.65	81537.57	678.7647	240.9291	2316638.714	471503.198	2316638.714	
4A41	2750	0	4837.25	5193.6	91096.87	678.7647	240.9291	1498445.007	293147.778	1498445.007	
		1375	31232.4	7556.88	91096.87	678.7647	240.9291	1800401.054	423545.990	1800401.054	
		2750	59071.2	10740.43	91096.87	678.7647	240.9291	2126613.574	452917.518	2126613.574	
4A42	2200	0	-41602	-10445.54	1403.69	678.7647	240.9291	115619.240	-48754.041	115619.240	
		1125	-33293	-10445.54	1403.69	678.7647	240.9291	124336.363	-39987.515	124336.362	
		2250	-24984	-10445.54	1403.69	678.7647	240.9291	133152.897	-31220.994	133152.887	
4A45	2600	0	26805.6	10938.46	1403.69	678.7647	240.9291	231184.283	45526.730	45526.730	
		1300	34027	10938.46	1403.69	678.7647	240.9291	239976.742	53319.189	53319.189	
		2000	41648.4	10938.46	1403.69	678.7647	240.9291	248769.212	61111.659	61111.659	
4A5	2750	250	-24623	-6857.86	46702.9	678.7647	240.9291	107095.987	16936.857	107095.987	
		1625	-7097.1	-2874.36	46702.9	678.7647	240.9291	108841.262	18568.252	120841.262	
		3000	8935.45	-510.98	46702.9	678.7647	240.9291	140209.503	20200.374	140209.503	
4A50	2600	0	20703.2	11917.4	1291.79	678.7647	240.9291	236393.930	50225.417	50225.417	
		1300	28174.8	11913.4	1291.79	678.7647	240.9291	244145.420	58017.887	58017.887	
		2000	45596	11913.4	1291.79	678.7647	240.9291	251937.890	65810.357	65810.357	

4B12	3250	0	-19654	-9470,8	1291,79	670,7647	340,9291	12370,317	-4480,7744	100765,211	
		1125	-29305	-9470,8	1291,79	670,7647	340,9291	19105,041	-6926,829	129505,041	
		2250	-38956	-9470,8	1291,79	670,7647	340,9291	25839,764	-9372,877	158244,764	
4B13	3750	0	-19431	-7998,14	46915,69	670,7647	340,9291	10737,268	-16511,813	107379,268	
		1875	-47031	-7998,14	46915,69	670,7647	340,9291	25534,801	-39258,19	254534,801	
		3000	-74631	-411,27	46915,69	670,7647	340,9291	40332,334	-62004,567	401690,334	
4B14	3750	0	-19179	-7998,14	58439,69	670,7647	340,9291	10598,784	-16295,799	105987,784	
		1875	-46436	-7998,14	58439,69	670,7647	340,9291	25202,696	-38741,466	251126,696	
		3000	-73692	-411,27	58439,69	670,7647	340,9291	39806,608	-61187,133	396265,608	
4B15	3750	0	-18927	-7998,14	70364,69	670,7647	340,9291	10459,299	-16080,785	104594,299	
		1875	-45841	-7998,14	70364,69	670,7647	340,9291	24870,592	-38223,132	247717,592	
		3000	-72742	-411,27	70364,69	670,7647	340,9291	39281,885	-60365,479	391041,885	
4B16	3750	0	-18675	-7998,14	82289,69	670,7647	340,9291	10319,814	-15865,771	103202,814	
		1875	-45246	-7998,14	82289,69	670,7647	340,9291	24538,488	-37704,798	244309,488	
		3000	-71792	-411,27	82289,69	670,7647	340,9291	38757,162	-59545,825	385816,162	
4B17	3750	0	-18423	-7998,14	94214,69	670,7647	340,9291	10180,329	-15650,757	102810,329	
		1875	-44651	-7998,14	94214,69	670,7647	340,9291	24206,384	-37186,464	241901,384	
		3000	-70842	-411,27	94214,69	670,7647	340,9291	38232,439	-58726,171	380590,439	
4B18	3750	0	-18171	-7998,14	106139,7	670,7647	340,9291	10040,844	-15435,743	101417,844	
		1875	-44056	-7998,14	106139,7	670,7647	340,9291	23874,28	-36668,13	238493,28	
		3000	-69892	-411,27	106139,7	670,7647	340,9291	37707,716	-57906,517	375364,716	
4B19	3750	0	-17919	-7998,14	118064,7	670,7647	340,9291	9901,359	-15220,729	100025,359	
		1875	-43461	-7998,14	118064,7	670,7647	340,9291	23542,176	-36151,796	235085,176	
		3000	-68942	-411,27	118064,7	670,7647	340,9291	37182,993	-57086,863	369838,993	
4B20	3750	0	-17667	-7998,14	129989,7	670,7647	340,9291	9761,874	-15005,715	98633,874	
		1875	-42866	-7998,14	129989,7	670,7647	340,9291	23209,872	-35634,462	231677,872	
		3000	-67992	-411,27	129989,7	670,7647	340,9291	36658,269	-56267,209	364313,269	
4B21	3750	0	-17415	-7998,14	141914,7	670,7647	340,9291	9622,389	-14790,701	97242,389	
		1875	-42271	-7998,14	141914,7	670,7647	340,9291	22877,568	-35117,128	228270,568	
		3000	-67042	-411,27	141914,7	670,7647	340,9291	36133,545	-55447,555	358787,545	
4B22	3750	0	-17163	-7998,14	153839,7	670,7647	340,9291	9482,904	-14575,687	95851,904	
		1875	-41676	-7998,14	153839,7	670,7647	340,9291	22545,264	-34599,794	225044,264	
		3000	-66092	-411,27	153839,7	670,7647	340,9291	35608,821	-54628,901	353261,821	
4B23	3750	0	-16911	-7998,14	165764,7	670,7647	340,9291	9343,419	-14360,673	94459,419	
		1875	-41081	-7998,14	165764,7	670,7647	340,9291	22212,96	-34082,46	221817,96	
		3000	-65142	-411,27	165764,7	670,7647	340,9291	35084,097	-53810,247	348235,097	
4B24	3750	0	-16659	-7998,14	177689,7	670,7647	340,9291	9203,934	-14145,659	93067,934	
		1875	-40486	-7998,14	177689,7	670,7647	340,9291	21880,656	-33565,126	218591,656	
		3000	-64192	-411,27	177689,7	670,7647	340,9291	34559,373	-52991,593	343208,373	
4B25	3750	0	-16407	-7998,14	189614,7	670,7647	340,9291	9064,449	-13930,645	91676,449	
		1875	-39891	-7998,14	189614,7	670,7647	340,9291	21548,352	-33047,792	215365,352	
		3000	-63242	-411,27	189614,7	670,7647	340,9291	34034,649	-52172,939	338180,649	
4B26	3750	0	-16155	-7998,14	201539,7	670,7647	340,9291	8924,964	-13715,631	90284,964	
		1875	-39296	-7998,14	201539,7	670,7647	340,9291	21216,048	-32530,458	212139,048	
		3000	-62292	-411,27	201539,7	670,7647	340,9291	33509,925	-51354,285	333153,925	
4B27	3750	0	-15903	-7998,14	213464,7	670,7647	340,9291	8785,479	-13500,617	88893,479	
		1875	-38701	-7998,14	213464,7	670,7647	340,9291	20883,744	-32013,124	208912,744	
		3000	-61342	-411,27	213464,7	670,7647	340,9291	33985,201	-50535,631	328127,201	

4B1	4250	150	-17004	-5141,32	1167	185,9637	127,1396	9630,997	-13759,617	-9632,797	
		2250	-603,48	-97,75	1167	185,9637	127,1396	12788,962	967,733	967,733	
		4350	15913,4	4945,82	1167	185,9637	127,1396	25815,931	12695,083	12695,063	
4B10	4025	250	23371	-5761,21	1914	185,9637	127,1396	-2961,135	-4049,155	-2970,195	
		2262,5	-1176,6	-1235,04	1914	185,9637	127,1396	11021,28	1675,999	1675,999	
		4275	25723,2	10146,71	1914	185,9637	127,1396	25031,706	8051,5655	8051,5655	
4B11	4025	250	23998	-5761,21	3714	185,9637	127,1396	-2961,135	-4049,155	-2970,195	
		2262,5	-1176,6	169,54	3714	185,9637	127,1396	14210,28	2167,179	2160,179	
		4275	25358,2	5938,72	3714	185,9637	127,1396	29191,706	4411,0766	44110,760	
4B12	4050	250	24626	-7008,34	496,17	185,9637	127,1396	-3738,149	-5268,171	-3726,149	
		2250	406,8	254,49	496,17	185,9637	127,1396	13301,52	2075,562	2075,562	
		4275	25033,2	5830,2	496,17	185,9637	127,1396	29737,22	4511,2744	45112,274	
4B13	3275	250	25083	-5411,54	2040,33	185,9637	127,1396	-3056,206	-4307,961	-3046,206	
		1968,75	-1130	-1006,93	2040,33	185,9637	127,1396	8441,25	1304,463	2441,292	
		3300	23286,6	4021,13	2040,33	185,9637	127,1396	20492,006	3166,922	11966,252	
4B14	775	250	25533	-3617,6	3654,11	185,9637	127,1396	1764,5	2487,631	1764,544	
		612,5	4470,1	-521,76	3654,11	185,9637	127,1396	11738,306	17002,287	11738,308	
		1000	6983,6	-4460,81	3654,11	185,9637	127,1396	12999,756	10141,239	10999,756	
4B15	3775	0	25983,4	-3250,74	3949,47	185,9637	127,1396	7800,116	-9847,073	-7800,116	
		1887,5	4210,3	1498,8	3940,47	185,9637	127,1396	30220,174	2894,217	20973,217	
		3775	34436,8	5436,2	2949,47	185,9637	127,1396	66064,692	64917,739	64917,739	
4B16	775	250	26433,8	-2935,12	1200,31	185,9637	127,1396	9984,12	-11816,372	9984,120	
		612,5	6734,1	2022,49	1200,8	185,9637	127,1396	16157,784	17356,909	16157,784	
		1000	10930,3	1742,44	1200,8	185,9637	127,1396	23419,332	4818,361	20419,332	
4B17	775	250	26883,8	-3134,61	-1301,83	185,9637	127,1396	8343,085	-10138,194	8343,085	
		612,5	6984,1	-2776,64	-1301,83	185,9637	127,1396	14516,748	2364,419	14516,760	
		1000	10930,3	1997,69	-1301,83	185,9637	127,1396	21778,296	10102,263	21778,297	
4B18	3775	0	27333	-3403,03	3065,32	185,9637	127,1396	-8638,506	-9337,192	-8658,506	
		1887,5	12724,1	1342,72	3065,32	185,9637	127,1396	29381,484	28855,097	28665,097	
		3775	49686,8	5211,69	3065,32	185,9637	127,1396	65206,008	64529,619	64529,619	
4B19	2150	125	10480	-5106,93	-10091,43	185,9637	127,1396	1256,933	2835,188	1256,933	
		1290	10207,7	2562,14	-10091,43	185,9637	127,1396	37249,398	28432,758	37249,390	
		3275	30960,3	6661,29	-10091,43	185,9637	127,1396	63062,543	21159,596	63062,545	
4B2	4000	150	15660	-5106,68	350,79	185,9637	127,1396	-9966,166	-21096,042	-9966,160	
		2250	240,02	-148,66	200,75	185,9637	127,1396	12461,304	1133,328	1133,322	
		4250	16209,4	9000,29	200,75	185,9637	127,1396	35846,592	23560,688	23560,682	
4B20	2150	125	10730	-5106,93	-10091,43	185,9637	127,1396	1256,933	-1072,807	-9427,549	
		1290	10457,7	2562,14	-10091,43	185,9637	127,1396	37249,398	29432,758	37249,390	
		3225	30960,3	6661,29	-10091,43	185,9637	127,1396	62092,543	21159,596	63062,545	
4B21	4050	225	-40750	-9779,61	-1092,56	185,9637	127,1396	-40520,873	-50436,340	-40520,873	
		2250	3376,51	1090,69	-1092,56	185,9637	127,1396	17099,475	-732,192	17099,475	
		4275	45477	11961	-1092,56	185,9637	127,1396	35119,348	28802,127	56982,173	
4B22	4050	225	-43525	-11029,6	304,1	185,9637	127,1396	-44026,604	-54962,299	-44026,607	
		2250	576,29	-219,3	304,1	185,9637	127,1396	13883,753	3828,090	2848,060	
		4275	44977,3	10651	304,1	185,9637	127,1396	30804,113	60640,478	60648,418	
4B23	4050	225	-44049	-10800,43	-1039,27	185,9637	127,1396	-44803,280	-61997,130	-44803,287	
		2250	52,19	69,87	-1039,27	185,9637	127,1396	12837,078	-4206,771	12837,078	
		4275	44153,7	10940,17	-1039,27	185,9637	127,1396	70557,436	53483,577	53483,577	
4B24	4025	250	-45444	-11878,2	-435,94	185,9637	127,1396	-47400,365	-63079,164	-47400,365	
		2262,5	-1389,6	-947,94	-435,94	185,9637	127,1396	10553,686	-4285,113	10553,669	
		4275	42399,4	9402,72	-435,94	185,9637	127,1396	67631,600	53012,799	53012,799	
4B25	4025	250	-46231	-13165,8	-692,28	185,9637	127,1396	-49620,430	-64833,659	-49633,450	
		2262,5	-2276,3	-1235,04	-692,28	185,9637	127,1396	9100,610	-6999,019	9100,610	
		4275	41318,7	9545,11	-692,28	185,9637	127,1396	66399,511	50698,583	50698,603	
4B26	4050	225	-46178	-11977,63	-1309,63	185,9637	127,1396	-47556,811	-65102,197	-47556,812	
		2250	-2076,3	-342,27	-1309,63	185,9637	127,1396	10163,547	-8301,772	10163,547	
		4275	40824,7	10522,92	-1309,63	185,9637	127,1396	67023,906	49339,527	49339,527	
4B27	4050	225	-45096	-11474,58	317,31	185,9637	127,1396	-46684,123	-63856,228	-46684,123	
		2250	-988,35	-604,68	317,31	185,9637	127,1396	11036,234	-337,889	11036,224	
		4275	40113,1	10265,6	317,31	185,9637	127,1396	68758,592	57380,479	57382,479	

4B36	4010	225	-44097	-10060,06	-1615,07	185,9637	127,1396	-42301,257	-42315,704	-42321,865	
		2250	1002,93	606,64	-1615,07	185,9637	127,1396	14098,964	-5096,346	14396,064	
		4775	43104,4	11476,94	-1615,07	185,9637	127,1396	62119,522	50835,012	62807,013	
4B37	4530	225	-49,44	-10,85,34	-511,37	185,9637	127,1396	-5373,104	-6843,768	-6837,605	
		2500	569,57	323,96	-511,37	185,9637	127,1396	10017,618	2696,957	2696,957	
		4775	31101,1	13041,57	-511,37	185,9637	127,1396	72669,212	60749,531	60749,531	
4B3	2100	150	-1462,1	652,77	37047,99	185,9637	127,1396	17053,366	15814,6775	16053,302	
		1200	-7091,6	3404,44	47047,99	185,9637	127,1396	124824,491	192175,0985	19084,491	
		2250	-311,64	4452,72	47047,99	185,9637	127,1396	23253,228	201949,741	36058,228	
4B30	3275	225	-3219,4	-705,03	-1506	185,9637	127,1396	9781,6868	-11139,902	9781,6868	
		1662,5	-5123,49	-295,02	1506	185,9637	127,1396	14857,914	1003,557	14857,9152	
		3500	5284,2	765,03	-1506	185,9637	127,1396	26924,417	4990,729	1992,784	
4B31	3275	225	-6279,8	-779,4	-1506,47	185,9637	127,1396	2922,7801	-7250,403	8559,6868	
		1462,5	-492,45	-170,4	19,47	185,9637	127,1396	14965,926	-1144,217	14965,926	
		3500	2294,47	-279,4	-79,4	185,9637	127,1396	30982,193	4972,000	4952,000	
4B32	1775	0	-3031,3	-54,82	-1765,1	185,9637	127,1396	20831,104	-10760,123	20831,104	
		887,5	104,22	54,98	-1765,1	185,9637	127,1396	29144,345	-7256,382	29144,345	
		1775	3241	54,98	-1765,1	185,9637	127,1396	52457,986	-2973,641	32457,586	
4B33	1775	0	-3000,3	39,9	-1765,15	185,9637	127,1396	28830,536	-10007,640	28830,536	
		887,5	126,12	49,9	-1765,15	185,9637	127,1396	29182,639	-7704,399	29182,639	
		1775	3032,4	39,9	-1765,15	185,9637	127,1396	52475,201	-4011,147	32475,201	
4B34	1000	0	-1,3	-7,3	-1649,09	185,9637	127,1396	4776,825	-4231,899	4731,899	
		500	726,77	-7,3	-1649,09	185,9637	127,1396	10682,119	8087,249	8021,249	
		1000	1040,23	-37,21	-1649,09	185,9637	127,1396	52457,986	7942,599	7942,599	
4B35	1000	0	-1,3	-70,8	-1631,35	185,9637	127,1396	48796,911	-4177,310	4177,310	
		500	726,77	-70,8	-1631,35	185,9637	127,1396	50652,167	6032,660	6032,660	
		1000	1037,67	-70,8	-1631,35	185,9637	127,1396	52507,536	7888,010	7888,010	
4B36	2000	0	-421,8	-215,06	-279,71	185,9637	127,1396	20839,536	-3704,211	20839,501	
		1000	-394,8	-215,06	-279,01	185,9637	127,1396	24570,201	6,469	6,469	
		2000	2609,2	-215,06	-79,01	185,9637	127,1396	28300,901	3717,129	3717,129	
4B37	2000	0	-4430,3	-215,53	-277,76	185,9637	127,1396	20857,369	-3711,593	20857,369	
		1000	-3001,4	-215,53	-277,76	185,9637	127,1396	24568,069	-0,893	24568,069	
		2000	2609,2	-215,06	-277,76	185,9637	127,1396	28278,769	3709,800	3709,800	
4B38	750	0	-6047,1	2017,943	44091,33	185,9637	127,1396	174312,921	-294208,363	174312,921	
		375	-1099	2017,943	44091,33	185,9637	127,1396	175704,435	297619,977	175704,435	
		750	6113,2	2017,943	44091,33	185,9637	127,1396	177095,947	297011,290	177095,947	
4B39	3500	0	-6538,2	-4,93	-77,13	185,9637	127,1396	8160,992	-6868,985	8160,993	
		1750	-6113,2	-4,93	-77,13	185,9637	127,1396	14654,717	375,260	14654,717	
		3500	6148,1	-4,93	-77,13	185,9637	127,1396	21140,442	6118,466	6118,466	
4B4	2100	150	-3402	3304,45	51081,33	185,9637	127,1396	18191,643	203234,104	18191,642	
		1200	-3081,3	3304,45	51081,33	185,9637	127,1396	22087,880	212120,339	22087,880	
		2250	-1599,3	3304,45	51081,33	185,9637	127,1396	25984,119	216316,574	25984,119	
4B40	3500	0	-6219,9	-3,62	-81,37	185,9637	127,1396	8171,419	-6876,366	8171,419	
		1750	-5113,2	-3,62	-81,37	185,9637	127,1396	14665,144	-382,641	14665,142	
		3500	6148,1	-3,62	-81,37	185,9637	127,1396	21158,869	6111,084	6111,084	
4B41	750	0	-6047,1	20141,63	45084,48	185,9637	127,1396	173969,877	294896,549	173969,877	
		375	-1099	20141,63	45084,48	185,9637	127,1396	175361,389	296088,062	175361,389	
		750	6113,2	20141,63	45084,48	185,9637	127,1396	176752,902	297479,574	176752,902	
4B42	3650	250	-1610,9	126,12	2068,01	185,9637	127,1396	-5512,968	-10196,445	-5512,968	
		2175	-725,08	126,12	2068,01	185,9637	127,1396	14262,942	9579,465	9579,463	
		4100	19559,3	126,12	2068,01	185,9637	127,1396	34028,852	29355,375	29355,375	
4B43	3650	250	-1610,9	123,99	2077,99	185,9637	127,1396	-5521,406	-10177,967	-5531,406	
		2175	-725,08	123,99	2077,99	185,9637	127,1396	14453,504	9602,943	9602,943	
		4100	19544,4	123,99	2077,99	185,9637	127,1396	34028,414	29378,853	29378,853	
4B44	4250	250	-2580,9	-278,61	-84,34	185,9637	127,1396	12019,823	-21044,898	-15379,821	
		2375	200,52	-278,61	-84,34	185,9637	127,1396	12028,854	-436,223	12028,854	
		4500	26804	-278,61	-84,34	185,9637	127,1396	39437,519	26972,442	26972,442	
4B45	4250	250	-25837	-278,32	-84,54	185,9637	127,1396	-15359,292	-27835,210	-15359,293	
		2375	216,78	-278,32	-84,54	185,9637	127,1396	12049,382	-416,535	12049,382	
		4500	26820,3	-278,32	-84,54	185,9637	127,1396	39458,046	26992,130	26992,130	
4B5	2100	150	-13154	3465,81	52005,36	185,9637	127,1396	12237,293	206150,334	12237,293	
		1200	-11443	3465,81	52005,36	185,9637	127,1396	16134,128	210046,589	16134,128	
		2250	-7722,2	3465,81	52005,36	185,9637	127,1396	20030,363	213942,834	20030,363	
4B6	2100	150	-13297	1163,03	49572,28	185,9637	127,1396	11769,414	199482,939	11769,414	
		1200	-6467,2	2934,9	49572,28	185,9637	127,1396	20800,938	204494,063	20800,938	
		2250	812,42	4963,03	49572,28	185,9637	127,1396	30574,284	214267,809	30574,284	
4B7	775	225	-52530	-5740,02	-5198,27	185,9637	127,1396	4173,115	-84073,268	4173,115	
		612,5	-48059	-5339,36	-5196,25	185,9637	127,1396	10346,779	-77400,204	10346,779	
		1000	-41924	4556,3	-5198,25	185,9637	127,1396	17608,338	-70668,645	17608,338	
4B8	3275	225	-39942	-3057,74	-3295,6	185,9637	127,1396	-29674,879	-59232,768	-29674,879	
		1062,5	-18599	-1179,15	-3295,6	185,9637	127,1396	3532,629	-26805,260	3532,629	
		3500	19776,7	4648,98	-3295,6	185,9637	127,1396	41963,343	11805,455	11805,455	
4B9	4650	225	-25187	-5180,08	154,83	185,9637	127,1396	-27576,928	-36405,558	-27576,928	
		4250	1476,83	301,64	154,83	185,9637	127,1396	14639,784	2601,155	2601,155	
		4475	36140,1	5948,36	154,83	185,9637	127,1396	58896,506	44937,877	44937,877	

4BK1	800	0	67107,9	-461,35	1432,14	244,1098	0	321341,920	76067,387	76067,387
		425	63679,9	-461,35	1432,14	244,1098	0	322818,906	77644,434	77644,434
		850	70181,2	-461,35	1432,14	244,1098	0	324296,015	79221,482	79221,482
4BK10	775	0	203483	-389,95	926,33	244,1098	0	337512,954	66275,278	66275,278
		387,5	61715,2	-429,59	926,33	244,1098	0	338990,445	67713,169	67713,169
		775	63087,2	-469,59	926,33	244,1098	0	340468,948	69151,070	69151,070
4BK11	7400	0	42548,8	2147,34	-1114,02	244,1098	0	360324,898	42249,921	42249,921
		500	44815,9	2147,34	-1114,02	244,1098	0	362300,248	44105,271	44105,271
		1000	48080,9	2147,34	-1114,02	244,1098	0	364275,598	45960,621	45960,621
4BK12	1000	0	41432,2	2141,24	-1109,24	244,1098	0	259527,174	44830,273	44830,273
		700	43179,3	2141,24	-1109,24	244,1098	0	261182,524	45677,622	45677,622
		1000	44946,4	2141,24	-1109,24	244,1098	0	262837,874	47524,971	47524,971
4BK13	3550	250	-19979	-1911,47	40449,61	244,1098	0	87004,928	146998,814	88004,928
		1425	-1226,1	57,56	40449,61	244,1098	0	90206,147	149200,033	90206,147
		2600	17020,4	2684,34	40449,61	244,1098	0	111361,869	190579,756	111361,869
4BK14	2450	150	-11268	-582,13	30115,76	244,1098	0	67809,043	146029,235	67809,043
		1075	-2040,5	-582,13	30115,76	244,1098	0	69609,338	147829,530	69609,330
		2000	10567,4	-582,12	30115,76	244,1098	0	99409,633	177629,825	99409,633
4BK15	2500	250	-3708,5	-1020,42	9076,84	244,1098	0	37622,922	8860,057	37622,922
		1300	-19278	-1020,42	9076,84	244,1098	0	39422,103	10697,314	10597,314
		2750	8028,4	-2930,55	9076,84	244,1098	0	73811,713	36556,002	36556,002
4BK16	2500	250	-2044,7	-2617,67	3611,35	244,1098	0	5404,046	5011,798	5404,046
		1500	-23139	-1478,45	3611,35	244,1098	0	20664,426	20271,365	20664,426
		3750	20947	1052,2	481,58	244,1098	0	41623,124	41782,672	41623,124
4DK17	2600	0	7127	8219,48	-5620,63	244,1098	0	117900,056	3456,972	3456,972
		1300	34609,9	12125,73	-5620,63	244,1098	0	132460,748	24415,660	24415,660
		2500	47214,8	17516,26	-5620,63	244,1098	0	150721,153	44676,072	44676,072
4BK18	2850	150	-4252	-3034,84	-42938,38	244,1098	0	72877,273	72877,273	72877,273
		1325	-2533,3	1307,97	-42938,38	244,1098	0	89793,033	89793,033	89793,033
		2500	18486,4	6215,79	-42938,38	244,1098	0	108376,724	108376,724	108376,724
4BK19	2350	150	-5275,9	-2011,58	-3690,53	244,1098	0	79880,269	79880,269	79880,269
		1325	-310,82	-44,97	-3690,53	244,1098	0	90514,585	90514,585	90514,585
		2500	6169,73	2418,03	-3690,53	244,1098	0	101990,077	101990,077	101990,077
4BK2	850	150	-6099,5	661,11	-2059,91	244,1098	0	178512,184	178512,184	178512,184
		575	-2471	661,11	-2059,91	244,1098	0	180089,232	180089,232	180089,232
		1000	-6896,9	661,11	-2059,91	244,1098	0	181666,279	181666,279	181666,279
4BK20	2750	0	-5111,1	-214,68	1307,42	244,1098	0	72078,996	101,147	72078,996
		1375	-1713,1	-214,68	1307,42	244,1098	0	77181,206	5001,066	5001,066
		2750	4811,3	-214,68	1307,42	244,1098	0	82283,416	10102,279	10102,279
4BK21	2350	150	-3109	-2154,94	-2694,9	244,1098	0	79978,249	79978,249	79978,249
		1325	-1362,5	-38,53	-2694,9	244,1098	0	90616,666	90616,666	90616,666
		2500	9227,98	2023,88	-2694,9	244,1098	0	102088,166	102088,166	102088,166
4BK22	2550	150	-13622	-6098,01	-44071,11	244,1098	0	73335,440	73335,440	73335,440
		1325	-1544,5	1234,8	-44371,11	244,1098	0	90252,001	90252,001	90252,001
		2500	10942,9	6142,61	-44371,11	244,1098	0	102834,911	102834,911	102834,911
4BK23	2500	0	2261,1	7985,69	-5942,24	244,1098	0	117197,472	6801,627	6801,627
		1250	32933,6	11091,9	-5942,24	244,1098	0	133156,160	22760,315	22760,315
		2500	47456,5	17282,52	-5942,24	244,1098	0	153416,564	43020,716	43020,716
4BK24	2500	250	-37808	-20986,13	-454,17	244,1098	0	3553,431	-83792,520	3553,431
		1500	-43095	-15995,5	-454,17	244,1098	0	23913,843	-63532,109	23913,843
		2750	-31303	-11689,25	-454,17	244,1098	0	39772,530	-47673,421	39772,530
4BK25	2500	250	-42865	-18291,49	2510,79	244,1098	0	14535,056	-69350,004	14535,056
		1500	-35560	-12901,88	2510,79	244,1098	0	34795,457	-49007,603	34795,457
		2750	-23028	-8994,9	2510,79	244,1098	0	50754,144	-24138,915	50754,144
4BK26	2550	250	-3998,4	-3020,29	42513,51	244,1098	0	83445,691	171110,479	83445,691
		1425	3474,93	294,37	42513,51	244,1098	0	94849,720	182514,507	94849,720
		2600	11440,2	2804,03	42513,51	244,1098	0	105428,400	193093,368	105428,400
4BK27	775	225	-64832	-419,69	-3196,19	244,1098	0	206888,000	-80049,481	206888,000
		612,5	-63563	-419,69	-3196,19	244,1098	0	208436,311	-80605,550	208436,311
		1000	-62193	-419,69	-3196,19	244,1098	0	209984,212	-79167,648	209984,212
4BK28	775	225	-64849	-408,46	-3252,05	244,1098	0	207087,183	-82178,290	207087,183
		612,5	-63480	-408,46	-3252,05	244,1098	0	208525,074	-80741,399	208525,074
		1000	-62110	-408,46	-3252,05	244,1098	0	209962,975	-79303,497	209962,975
4BK29	775	0	18070,3	-813,44	-6216,23	244,1098	0	293727,597	-7988,432	293727,597
		387,5	19459,3	-813,44	-6216,23	244,1098	0	295165,488	-6550,541	295165,488
		775	20809,2	-813,44	-6216,23	244,1098	0	296603,389	-5112,639	296603,389
4BK3	850	150	-70958	633,03	-1973,95	244,1098	0	177629,355	-81930,797	177629,355
		575	69286	633,03	-1973,95	244,1098	0	179206,398	-80373,720	179206,398
		1000	-67784	633,03	-1973,95	244,1098	0	180783,439	-78796,623	180783,439
4BK30	775	0	13163,9	-802,08	-6289,13	244,1098	0	293839,831	-8182,377	293839,831
		387,5	19533,3	-802,08	-6289,13	244,1098	0	295277,722	-6744,486	295277,722
		775	20504,7	-802,08	-6289,13	244,1098	0	296715,624	-5306,587	296715,624
4BK4	850	0	66965,2	-455,46	1647,16	244,1098	0	321124,717	76733,269	76733,269
		425	68467,1	-455,46	1647,16	244,1098	0	322701,765	78330,315	78330,315
		850	69969,1	-455,46	1647,16	244,1098	0	324278,813	79907,362	79907,362

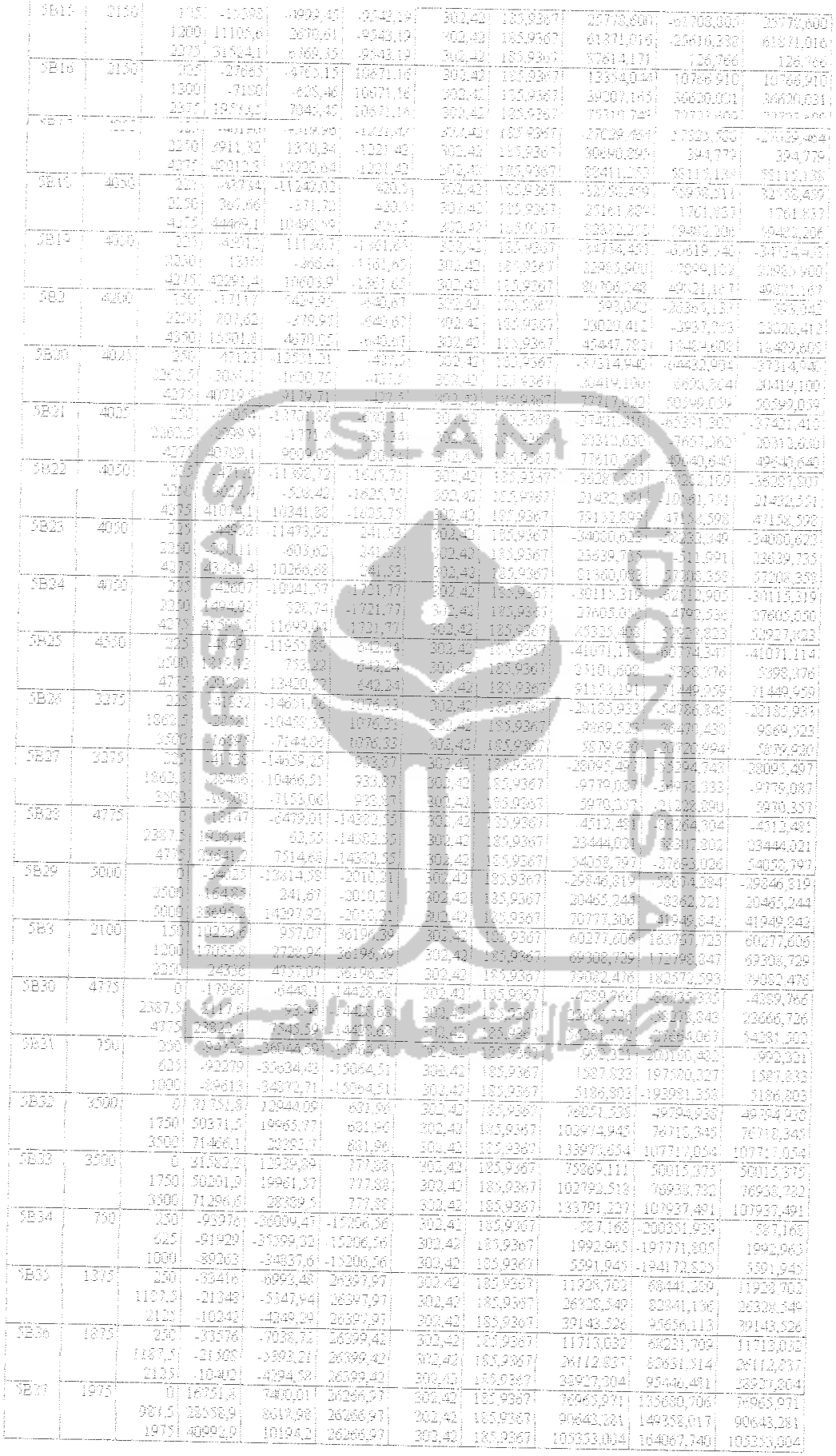
4285	4000	120	-44720	-196,36	5964,43	244,1098		0	2041[illegible],729	-2[illegible]17,127	2041[illegible],709	
		275	-45022	-196,36	5964,43	244,1098		0	2050986,077	22840,079	2050976,937	
		1000	-41721	-196,36	5964,43	244,1098		0	1972279,354	-21963,010	1972315,094	
4286	4000	0	-45108,7	778,39	-10575,09	244,1098		2	2594962,240	-4894,088	4894,088	
		425	-46602,2	872,38	-10577,69	244,1098		0	3011199,997	6271,186	6271,186	
		990	-43124,6	803,36	-10575,09	244,1098		2	3022718,447	7548,182	7548,182	
4287	4000	0	-44973,5	966,29	-10754,79	244,1098		2	2993604,697	4104,966	4104,966	
		425	-46426,1	961,80	-10454,19	244,1098		0	3008641,645	6742,009	6742,009	
		990	-42928,7	940,69	-10454,19	244,1098		0	3023512,946	7319,057	7319,057	
4288	4000	150	-44880,7	965,29	-9804,4	244,1098		0	2744396,360	-72481,004	2044968,268	
		425	-45940	-941,33	-9804,4	244,1098		0	2909[illegible],312	-30936,047	3060[illegible],312	
		1000	-41456	-95,47	-9804,4	244,1098		0	2[illegible],662	1924,999	2076[illegible],262	
4289	4000	0	-45[illegible],1	-446,42	118,177	244,1098		2	3270[illegible],583	4[illegible],577	4[illegible],577	
		367,5	-61[illegible],1	-496,40	845,17	244,1098		0	3[illegible],139,408	6[illegible],599	6[illegible],599	
		775	-62[illegible],1	-296,49	918,17	244,1098		0	3[illegible],576,257	6[illegible],742	6[illegible],749	
4030	4000	530	-45[illegible],3	-4345,74	361,54	108,1772	74,27159	7814,744	-12[illegible],971	78,14,722		
		2250	-4096,19	-115,90	361,07	108,1772	74,27159	12812,589	9421,043	8891,343		
		4000	-19543,7	-607,7	221,92	108,1772	74,27159	344,9[illegible]71	29[illegible],845	09558,845		
4031	4000	0	-17564	-5654,38	3643,08	108,1772	74,27159	31401,398	-19604,023	-19604,023		
		2250	-6894,1	-1837,01	3643,08	108,1772	74,27159	1[illegible],[illegible]2	20674,986	18578,413		
		3600	-[illegible]2	-1[illegible]17	[illegible]	108,1772	74,27159	3[illegible]2	[illegible]554,[illegible]	8[illegible],[illegible]		
4032	5000	0	-[illegible]26	-1[illegible]1,45	[illegible]	[illegible]	[illegible]	[illegible]	3568[illegible],[illegible]	-2[illegible],696	-3[illegible],701	
		300	-12[illegible],1	-3[illegible],5	[illegible]	[illegible]	[illegible]	[illegible]	4010,[illegible]	1[illegible],071	4010,924	
		500	-[illegible]2,[illegible]	10974,57	165,46	108,1772	74,27159	4970,[illegible]	[illegible]14,[illegible]	39414,515		
4033	4000	0	-[illegible]2,[illegible]	-[illegible]427,08	-3024,3	108,1772	74,27159	-[illegible]1062,[illegible]	-44,400,047	-[illegible]1062,350		
		1250	-5[illegible],[illegible]	2447,34	-2164,5	[illegible],1772	74,27159	18917,[illegible]	-[illegible]20,042	18917,420		
		4000	-[illegible]4,5	14322,24	-5034,[illegible]	108,1772	74,27159	[illegible]2[illegible],[illegible]	[illegible]38,559	39559,559		
4034	4000	0	-[illegible]2,[illegible]	-12259,16	720,91	108,1772	74,27159	-34654,[illegible]	[illegible],[illegible]4	-34654,394		
		2250	-[illegible]4,5	-364,16	720,91	108,1772	74,27159	5320,[illegible]	1[illegible],567	1886,547		
		4500	-[illegible]7[illegible],[illegible]	11510,84	720,91	108,1772	74,27159	45805,[illegible]	41[illegible],[illegible]	41866,867		
4035	4000	0	-[illegible]1,[illegible]	1139,24	123,95	[illegible],772	74,27159	-[illegible]3735,[illegible]	[illegible],[illegible]7	-[illegible]3735,061		
		2250	-[illegible]4,[illegible]	579,[illegible]	132,05	108,1772	74,27159	6244,[illegible]	1[illegible],[illegible]	294,494		
		4500	-[illegible]7,[illegible]	1249,[illegible]	123,[illegible]	108,1772	74,27159	46[illegible],[illegible]	40[illegible],[illegible]	40074,294		
4036	4000	0	-[illegible]2,[illegible]	-[illegible]1554,[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]6603,[illegible]	-[illegible]4[illegible],[illegible]	-[illegible]6603,[illegible]		
		2250	-[illegible]4,[illegible]	1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	967,284		
		4500	-[illegible]7,[illegible]	10195,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible]1[illegible],[illegible]	[illegible],[illegible]	40547,026		
4037	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]8709,[illegible]	-[illegible],[illegible]	-[illegible]8709,[illegible]		
		2250	-[illegible]4,[illegible]	-[illegible]715,[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	10[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4038	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4039	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4040	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4041	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4042	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4043	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4044	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4045	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4046	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4047	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4048	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
4049	4000	0	-[illegible]2,[illegible]	-[illegible]1[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	-[illegible]4[illegible],[illegible]	-[illegible],[illegible]	-[illegible]4[illegible],[illegible]		
		2250	-[illegible]4,[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		
		4500	-[illegible]7,[illegible]	11[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	74,27159	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]		

4D01	1000	0	-9934,54	-389,75	1610,01	95,12275	95,12275	3619,570	43611,772	3619,570	
		500	12760,0	-8,58	1610,01	95,12275	95,12275	13048,930	199015,972	13048,930	
		1000	23000,1	372,59	1610,01	95,12275	95,12275	22748,219	201381,141	22748,219	
4D02	1050	0	-17002	-387,57	1760,78	95,12275	95,12275	-17241,401	11684,228	138345,576	
		525	-7104,45	-218,57	1760,78	95,12275	95,12275	-7017,551	-421,859	-421,859	
		1050	2802,68	-749,57	1760,78	95,12275	95,12275	2801,550	16802,142	2801,550	
4D11	2500	0	-24700	148,99	3676,42	95,12275	95,12275	-25784,267	-9555,968	-9555,968	
		1250	1100,47	148,99	3676,42	95,12275	95,12275	-376,623	16465,197	376,623	
		2500	14944,15	148,99	3676,42	95,12275	95,12275	26931,623	43526,153	26931,623	
4D12	2500	0	-22147	90,67	3493,83	95,12275	95,12275	-23139,042	-8555,210	-23139,042	
		1250	2610,1	90,67	3493,83	95,12275	95,12275	2901,959	-32772,312	2901,959	
		2500	20493,1	90,67	3493,83	95,12275	95,12275	28942,959	4011,212	28942,959	
4D13	2500	0	-21699	90,67	3494,44	95,12275	95,12275	-22601,440	-28772,790	-22601,440	
		1250	3130,63	90,67	3494,44	95,12275	95,12275	3380,050	-32714,990	3380,050	
		2500	27940,6	90,67	3494,44	95,12275	95,12275	27463,590	6653,599	27463,590	
4D14	2500	0	-25402	224,5	4044,04	95,12275	95,12275	-26307,709	-8405,741	-26405,741	
		1250	416,72	224,5	4044,04	95,12275	95,12275	673,211	19658,249	673,211	
		2500	26736,7	224,5	4044,04	95,12275	95,12275	26774,221	43719,046	26774,221	
4D15	4000	0	-34492	630,41	5666,29	95,12275	95,12275	-35756,000	-35802,770	-35802,770	
		1500	-4907,6	870,42	3838,58	95,12275	95,12275	-4451,631	8200,400	-4401,831	
		3000	24276,2	630,41	5666,29	95,12275	95,12275	26791,200	28543,620	26791,200	
4D16	3000	0	-2112	664,09	5017,71	95,12275	95,12275	-30170,411	-22656,029	-22656,029	
		1500	-5526,1	664,09	5017,71	95,12275	95,12275	-4697,172	-6617,172	-4397,211	
		3000	24413,8	664,09	5017,71	95,12275	95,12275	29375,939	30390,361	26375,979	
4D17	2000	0	-1507,92	-1507,92	4150,27	95,12275	95,12275	-20137,997	-2706,302	-2706,302	
		1000	2183,41	-1507,92	4150,27	95,12275	95,12275	711,365	11140,499	711,365	
		2000	22041,4	-1507,92	4150,27	95,12275	95,12275	21560,154	30991,280	21560,154	
4D18	2000	0	-1477,14	-1477,14	4536,96	95,12275	95,12275	-19355,091	-929,699	-929,699	
		1000	2599,71	-1477,14	4536,96	95,12275	95,12275	1495,630	11491,931	1495,895	
		2000	23755,7	-1477,14	4536,96	95,12275	95,12275	22342,499	40767,731	22342,499	
4D19	2250	125	-24949	-4936,76	-5016,68	95,12275	95,12275	-28535,229	-26440,335	-26330,279	
		1250	-1000,1	-1000,1	-5016,68	95,12275	95,12275	-4065,333	-3131,278	-4065,223	
		2375	13114,9	845,82	-5016,68	95,12275	95,12275	14657,591	8412,466	14657,591	
4D03	4000	0	-14485	-126,6	-177,07	95,12275	95,12275	-47235,510	-47982,564	-47235,510	
		2250	-1098,1	-126,6	177,07	95,12275	95,12275	-325,721	-1173,775	-325,721	
		4000	44457,4	-126,6	177,07	95,12275	95,12275	45834,068	45837,026	45837,026	
4D20	2375	0	-7855,8	2315,84	9870,88	95,12275	95,12275	8405,678	4912,374	3489,678	
		1187,5	11601,1	4075,72	9870,88	95,12275	95,12275	16515,870	59933,566	16515,870	
		2375	31156,4	8114,45	9870,88	95,12275	95,12275	31156,503	72614,199	31156,503	
4D21	4500	0	-15069	-5600,26	794,15	95,12275	95,12275	-22208,108	-18395,186	-18895,186	
		2250	-913,2	-126,3	794,15	95,12275	95,12275	-1095,896	4236,115	-1095,896	
		4500	18258,9	5340,27	794,15	95,12275	95,12275	20036,394	33171,404	20036,394	
4D22	4000	0	-1432	-5361,92	312,47	95,12275	95,12275	-20677,432	-10365,105	-10365,105	
		2250	453,8	9,95	312,47	95,12275	95,12275	454,819	1767,192	454,819	
		4500	19473,3	5381,82	312,47	95,12275	95,12275	21587,108	22599,482	21587,108	
4D23	4375	125	-21185	-7866,66	-5308,16	95,12275	95,12275	-30512,633	-32806,900	-30512,633	
		2312,5	-8942,5	-2299,44	-5308,16	95,12275	95,12275	-8968,890	-21263,162	-8968,890	
		4500	7984,89	2857,56	-5308,16	95,12275	95,12275	11386,148	-10918,120	11386,148	
4D24	4250	125	-9472	-3699,89	-4394,07	95,12275	95,12275	-13788,527	-4246,963	-13788,527	
		2250	4973,2	1892,45	-4394,07	95,12275	95,12275	6977,933	25013,027	6977,933	
		4375	19372,5	7044,79	-4394,07	95,12275	95,12275	27744,402	46114,496	27744,402	
4D25	4375	0	-5772,2	-1100	-1324,94	95,12275	95,12275	-8110,706	-6832,214	-6110,706	
		2187,5	-586,6	-117,61	-1324,94	95,12275	95,12275	-599,269	-530,777	-599,269	
		4375	4904,55	865,78	-1324,94	95,12275	95,12275	4912,169	5490,661	4490,661	
4D26	4375	0	-5837,7	-102,19	-46,74	95,12275	95,12275	-6026,906	-6033,214	-6026,906	
		2187,5	-433,97	-102,19	-46,74	95,12275	95,12275	-615,462	-811,776	-615,462	
		4375	4668,78	-102,19	-46,74	95,12275	95,12275	4795,296	4799,662	4599,662	
4D27	4250	125	-9463,4	-3740,31	-4169,64	95,12275	95,12275	-14114,720	3397,769	-14114,720	
		2250	4731,37	1603,13	-4169,64	95,12275	95,12275	6651,750	24164,208	6651,750	
		4375	19157,1	6993,47	-4169,64	95,12275	95,12275	27418,220	44930,709	27418,220	
4D28	4375	125	-21535	-7860,93	-5366,87	95,12275	95,12275	-30654,824	-32195,678	-30654,824	
		2312,5	-4283,9	-2293,34	-5366,87	95,12275	95,12275	-9111,102	-31651,946	-9111,102	
		4500	7944,85	2863,66	-5366,87	95,12275	95,12275	11343,956	-11296,519	11343,956	
4D29	4500	0	-14419	-5121,99	375,37	95,12275	95,12275	-30015,089	-18093,935	-18093,935	
		2250	337,93	249,89	375,37	95,12275	95,12275	617,211	2033,965	617,211	
		4500	15092,1	3621,70	375,37	95,12275	95,12275	21749,501	24166,059	21749,501	
4D01	1000	0	-23104	782,72	-1882,05	95,12275	95,12275	-22367,722	-30295,332	-22367,722	
		500	-12175	782,72	-1882,05	95,12275	95,12275	-11963,322	-19867,932	-11963,222	
		1000	-2240,4	782,72	-1882,05	95,12275	95,12275	-1558,922	-9440,543	-1558,922	
4D30	4000	0	-16710	-4061,49	121,19	95,12275	95,12275	-25916,407	-25407,409	-25407,409	
		2250	-1955,9	695,62	121,19	95,12275	95,12275	-2784,107	-2275,109	-2275,109	
		4000	12798,2	4676,26	121,19	95,12275	95,12275	10342,194	16857,192	10342,194	
4D31	4375	0	-11240	-4318,34	2631,98	95,12275	95,12275	-16096,100	-5281,704	-5281,704	
		2437,5	5090,6	1697,96	2631,98	95,12275	95,12275	7127,905	12182,304	7127,905	
		4375	22140,3	8134,68	2631,98	95,12275	95,12275	31790,770	42835,084	31790,770	

4D10	9000	0	-39714	1.37	5.00	95.12273	95.12273	-41742.348	-41742.348	-41733.012	-41733.012
		3606	-8.49	-1.27	5.00	95.12273	95.12273	-10.49	11.068	-10.248	
		7906	-19233.1	-1.37	5.00	95.12273	95.12273	-41731.852	-41744.908	-41733.012	
4D10	1414.21	0	-6276.8	-403.54	-2201.28	95.12273	95.12273	-7157.268	-20580.768		
		707.11	-14403.9	-411.42	-2201.28	95.12273				-15682.707	
		1414.21	-20679.7	-815.42	-3602.57	95.12273	95.12273	-34906.1021	-57445.475	-240006.152	
4D34	1414.21	0	-6511.07	-409.73	-2246.87	95.12273	95.12273	-7429.845	-20684.312	-30693.045	
		707.11	-14343	-419.73	-2246.87	95.12273	95.12273	-15490.449	-36127.714	-15490.449	
		1414.21	-20973	-829.45	-4548.98	95.12273	95.12273	-29951.248	-57559.126	-229281.046	
4D35	4705	0	-20640.2	-1349.62	-7374.06	95.12273	95.12273	-23550.014	-44436.046	-51301.014	
		2622	-2521.3	-1395.03	-7374.06	95.12273	95.12273	-3901.965	-47724.01	-3901.989	
		5000	-23449.5	-1359.03	-7374.06	95.12273	95.12273	-25000.036	-72040.046	-25000.036	
4D36	4700	0	-2548.2	-1359.03	-7374.06	95.12273	95.12273	-27547.032	-47724.078	-51301.032	
		2625	-2641.3	-1395.03	-7374.06	95.12273	95.12273	-3901.965	-51626.043	-3901.989	
		5000	-24479	-1359.36	-7374.06	95.12273	95.12273	-25000.014	-76626.057	-25000.014	
4D4	1400	0	-2278.2	-1210.62	-6568.34	95.12273	95.12273	-25067.508	-51693.565	-57805.508	
		500	-12010	-1210.62	-6568.34	95.12273	95.12273	-12841.159	-64534.724	-12841.159	
		1000	-26911.5	-1210.62	-6568.34	95.12273	95.12273	-26216.792	-90750.516	-26216.792	
4D5	4900	0	-14048	-1359.36	-7374.06	95.12273	95.12273	-47442.573	-98193.089	-47442.573	
		2000	-9699.87	-1359.36	-7374.06	95.12273	95.12273	-9201.032	-107394.1	-9201.032	
		4500	-44306	-1359.36	-7374.06	95.12273	95.12273	-45901.895	-153295.9	-45901.895	
4D6	1600	0	-5207.8	-1210.62	-6568.34	95.12273	95.12273	-26067.31	-179363.2	-26067.31	
		500	-12010	-1210.62	-6568.34	95.12273	95.12273	-13031.77	-192394.9	-13031.77	
		1000	-26911.5	-1210.62	-6568.34	95.12273	95.12273	-23461.33	-215856.3	-23461.329	
4D7	1000	0	-3597.5	-1359.36	-7374.06	95.12273	95.12273	-11204.71	-227061	-11204.709	
		500	-6722	-1359.36	-7374.06	95.12273	95.12273	-7004.4	-234065.4	-7004.359	
		1000	-26911.5	-1359.36	-7374.06	95.12273	95.12273	-26219.539	-260284.9	-26219.539	
4D8	1000	0	-4824.1	-1359.36	-7374.06	95.12273	95.12273	-11788.97	-272073.9	-11788.969	
		500	-6722	-1359.36	-7374.06	95.12273	95.12273	-8208.46	-280282.3	-8208.459	
		1000	-26911.5	-1359.36	-7374.06	95.12273	95.12273	-19900.36	-300182.7	-19900.359	
4D9	1000	0	-8261.5	-1359.36	-7374.06	95.12273	95.12273	-12216.709	-312399.4	-12216.709	
		500	-6722	-1359.36	-7374.06	95.12273	95.12273	-8077.459	-320476.9	-8077.459	
		1000	-26911.5	-1359.36	-7374.06	95.12273	95.12273	-18633.41	-339110.3	-18633.41	
4F1	3841.5	0	-2659.3	13.91	100.09	50.89207	50.89207	-5503.3	-344613.6	-5503.299	-5503.299
		1920.74	-3.22	13.91	100.09	50.89207	50.89207	46.043	-344567.6	46.043	46.043
		3841.48	2745.92	13.91	100.09	50.89207	50.89207	2099.449	-342468.1	2099.449	2099.449
4F10	3094.9	0	-2.39	9.9	155.08	50.89207	50.89207	-2343.56	-344811.7	1991.537	1991.537
		1547.45	-4.48	9.91	155.08	50.89207	50.89207	-53.94	-344865.6	53.960	53.960
		3094.9	2214.01	9.91	155.08	50.89207	50.89207	3350.71	-341514.9	3350.168	3350.772
4F11	3094.9	0	-2.39	9.9	155.08	50.89207	50.89207	-2350.435	-343865.3	-2350.835	
		1547.45	-4.48	-9.9	-155.08	50.89207	50.89207	-34.022	-343899.3	-34.023	
		3094.9	2214.01	9.9	155.08	50.89207	50.89207	2242.810	-341656.5	1990.676	1990.676
4F12	3844.9	0	-2.39	0.8592	-122.19	50.89207	50.89207	-2076.324	-343732.8	-2276.202	-2276.202
		1402.43	-4.48	0.8592	-123.19	50.89207	50.89207	-164.945	-343897.7	-164.945	-164.945
		3844.9	2214.01	0.8592	-225.91	50.89207	50.89207	1946.222	-341951.5	1008.924	1008.924
4F13	3892	0	-2.39	-17.99	-461.08	50.89207	50.89207	-2067.703	-344019.2	-2067.723	-2067.723
		1640.85	-4.48	-17.99	-461.08	50.89207	50.89207	78.551	-343940.7	78.551	78.551
		3094.9	2180.98	-17.99	-461.08	50.89207	50.89207	2224.814	-341715.9	1969.119	1969.119
4F14	3094.9	0	-2196.5	-7.18	-26.73	50.89207	50.89207	-2615.885	-344331.8	-2615.885	-2615.885
		1547.45	-9.08	-7.18	-26.73	50.89207	50.89207	-17.073	-344348.8	-17.072	-17.072
		3094.9	2180.98	-7.18	-26.73	50.89207	50.89207	2279.778	-342069.1	2167.484	2167.484
4F15	3094.9	0	-2196.5	-7.18	-26.73	50.89207	50.89207	-2615.885	-344685.1	-2615.885	-2615.885
		1547.45	-9.08	-7.18	-26.73	50.89207	50.89207	-17.073	-344702.1	-17.072	-17.072
		3094.9	2180.98	-7.18	-26.73	50.89207	50.89207	2279.778	-342422.4	2167.484	2167.484
4F16	2893	0	-2135.7	18.15	59.94	50.89207	50.89207	2225.408	-1911.689	-1991.689	
		1446	-91.64	18.15	59.94	50.89207	50.89207	77.165	174.524	-77.165	
		3892	1962.42	18.15	59.94	50.89207	50.89207	2062.106	2236.631	2069.106	
4F2	3841.5	0	-2684.4	13.11	101.41	50.89207	50.89207	-2884.076	-2670.964	-2670.964	
		1920.74	30.74	13.11	101.41	50.89207	50.89207	46.043	471.962	46.043	
		3841.48	2745.9	13.11	101.41	50.89207	50.89207	2906.961	3377.832	2906.961	
4F3	768.3	0	-1170.3	-151.7	299.76	50.89207	50.89207	-1314.569	-55.577	-55.577	
		384.15	-507.04	-151.7	299.76	50.89207	50.89207	-744.387	514.600	-744.387	
		768.3	-14.01	-151.7	299.76	50.89207	50.89207	-174.206	1084.781	114.206	
4F4	768.3	0	-0.03	149.58	-295.33	50.89207	50.89207	154.928	-1056.142	154.928	
		384.15	541.01	149.58	-295.33	50.89207	50.89207	725.120	-485.931	725.120	
		768.3	1084.04	149.58	-295.33	50.89207	50.89207	1295.301	84.231	54.231	
4F5	768.3	0	-511.84	13.38	-68.52	50.89207	50.89207	122.385	-611.137	-572.203	
		384.15	34.19	13.38	-68.52	50.89207	50.89207	46.799	-240.966	46.799	
		768.3	574.28	13.38	-68.52	50.89207	50.89207	616.930	329.196	329.196	
4F6	768.3	0	-505.69	14.31	-71.89	50.89207	50.89207	515.960	-67.969	-515.960	
		384.15	37.34	14.3	-71.89	50.89207	50.89207	54.222	-240.716	54.222	
		768.3	280.27	14.3	-71.89	50.89207	50.89207	604.404	322.466	322.466	
4F7	384.15	0	-2725.6	-2.14	-71.14	50.89207	50.89207	-3059.917	-3110.705	-3059.917	
		1920.74	-3.44	-3.14	-71.14	50.89207	50.89207	-9.009	-3067.797	9.009	
		3841.48	2706.92	-3.14	-71.14	50.89207	50.89207	2841.909	-2543.121	2543.121	

4F8	3041,5	0	-5710	3,03	70,95	50,894207	50,894207	-3842,34	-2944,550	-2944,550
		1920,74	5,12	3,03	70,95	50,894207	50,894207	8,579	306,569	8,579
		3841,48	2726,17	3,03	70,95	50,894207	50,894207	2059,466	3157,476	2059,466
4F9	3041,5	0	-2536,3	3,11	-224,89	50,894207	50,894207	-2273,972	-7216,415	2271,972
		1423,43	156,067	3,11	-224,89	50,894207	50,894207	-162,696	-1105,116	-162,696
		2844,85	1884,65	3,11	-224,89	50,894207	50,894207	1940,282	1006,142	1006,142
5A1	2750	250	-349002	-3328,4	3641,251	678,7647	240,9291	-89528,276	105813,164	89528,0764
		1625	28275	-3145,41	38427,63	678,7647	240,9291	104998,575	215553,891	104969,375
		3000	-43411	-4210,52	56421,63	678,7647	240,9291	129033,619	243117,386	129033,019
5A10	2750	250	-349911	-3704,22	61000,81	678,7647	240,9291	-94210,203	214799,911	94210,2036
		1625	-20104	-3659,73	61000,81	678,7647	240,9291	117150,005	204730,958	114150,965
		3000	-43282,2	-7895,49	61000,81	678,7647	240,9291	123114,329	257300,461	123114,329
5A11	1100	0	-235510,6	-5117,1	74095,33	678,7647	240,9291	408236,7211	347679,1337	247778,1337
		510	47645,4	10609,02	44595,23	678,7647	240,9291	414639,3561	257061,6671	257061,6671
		1100	54911,2	16890,2	44595,23	678,7647	240,9291	423934,703	261526,8214	261526,8214
5A12	1100	0	41748,3	10031,26	44406,08	678,7647	240,9291	407907,405	246304,726	246304,726
		510	47191,2	11419,41	44406,08	678,7647	240,9291	414109,010	252429,271	252429,271
		1100	50947,1	16621,78	44406,08	678,7647	240,9291	422204,157	260765,410	260765,410
5A13	1750	0	52077	11424,82	60009,32	678,7647	240,9291	426771,1894	269452,807	269071,1894
		875	31221,6	10391,61	60009,32	678,7647	240,9291	384963,1220	299044,694	264963,0707
		1750	44962	17818,19	60009,32	678,7647	240,9291	429001,5	314151,341	276501,619
5A14	1750	0	58066,4	12544,3	60873,04	678,7647	240,9291	435579,514	309508,309	309509,514
		875	34044,3	13397,7	60873,04	678,7647	240,9291	269151,411	313870,406	269151,411
		1750	45211,2	16468,16	60873,04	678,7647	240,9291	324299,546	333639,242	264390,242
5A15	4000	0	4721	7255,03	37603,39	678,7647	240,9291	61529,857	81560,034	27329,927
		2000	6091,53	2744,98	27625,39	678,7647	240,9291	105894,861	126144,974	105894,861
		4000	24634,3	12744,92	67603,39	678,7647	240,9291	150459,791	170709,903	150459,791
5A16	4000	0	4492	-7139,67	31046,77	678,7647	240,9291	44187,894	76307,203	44187,2994
		2000	7930,48	2860,13	31046,77	678,7647	240,9291	107127,834	141147,743	107127,834
		4000	47893,3	12260,53	31046,77	678,7647	240,9291	170067,764	204487,672	170067,764
5A17	4000	0	-27163	-7971,66	28145,02	678,7647	240,9291	38648,126	81380,691	28940,1331
		2000	7240	2028,44	28145,02	678,7647	240,9291	103513,081	121445,631	103513,0731
		4000	37722,8	12028,14	28145,02	678,7647	240,9291	140078,013	158511,571	140078,013
5A18	4000	0	38782	-7017,18	28449,86	678,7647	240,9291	55540,566	97152,762	39541,8966
		2000	7981,9	2081,1	28449,86	678,7647	240,9291	103905,836	121618,722	103905,836
		4000	37722,8	12028,14	28449,86	678,7647	240,9291	140478,776	177181,682	140478,776
5A19	4000	0	44511	-6966,8	31779,63	678,7647	240,9291	44073,364	77171,330	44073,3864
		2000	8430,8	3033,32	31779,63	678,7647	240,9291	107813,506	125112,210	107813,9064
		4000	38113,1	13033,92	31779,63	678,7647	240,9291	170753,911	188451,345	170753,2351
5A2	2750	250	-113748	-39374,06	29656,03	678,7647	240,9291	-21465,037	-39312,621	21465,0371
		1625	-42259	-33006,07	29656,03	678,7647	240,9291	1701,716	7943,608	1701,7161
		3000	-77412	-28290,31	29656,03	678,7647	240,9291	32113,933	17866,249	17366,249
5A20	4000	0	3900	6911,08	28609,82	678,7647	240,9291	62245,269	86220,240	62245,269
		2000	7417,95	3082,73	28609,82	678,7647	240,9291	106810,209	131195,180	106810,209
		4000	39662,4	13008,72	28609,82	678,7647	240,9291	151375,149	175760,120	151375,149
5A21	3600	0	-121,38	-2232,36	-38984,77	678,7647	240,9291	131115,396	-179940,139	131115,396
		1300	11615	-219,86	-38984,77	678,7647	240,9291	159311,382	-151773,153	159311,382
		2600	42809,9	5217,65	-38984,77	678,7647	240,9291	197143,218	-113941,317	197143,219
5A22	2600	0	-12839	-4286,86	-39246,03	678,7647	240,9291	131443,153	-180738,674	131443,153
		1300	11981,7	-176,26	-39246,03	678,7647	240,9291	159639,129	-152543,693	159639,129
		2600	42474,3	5261,14	-39246,03	678,7647	240,9291	197470,965	-114349,962	197470,965
5A23	1750	250	-34083	-8993,1	55268,21	678,7647	240,9291	126677,399	-97789,000	126677,399
		1125	-31964	-7628,44	-62015,5	678,7647	240,9291	171778,965	-216691,577	171778,965
		2000	-21151	-6071,24	-62015,5	678,7647	240,9291	189410,914	-234322,526	189410,914
5A24	1750	0	37542	15805,6	-60836,59	678,7647	240,9291	374939,063	-199492,380	374939,063
		875	55066,7	17719,67	-60836,59	678,7647	240,9291	295343,493	-179087,859	295343,493
		1750	76840	22005,6	-60836,59	678,7647	240,9291	332766,211	-151664,940	332766,211
5A25	1750	0	35930,6	14210,27	-63793,45	678,7647	240,9291	270195,676	-214834,581	270195,676
		875	53449,3	16724,34	-63793,45	678,7647	240,9291	292600,105	-194290,158	292600,105
		1750	79230,3	21060,27	-63793,45	678,7647	240,9291	320023,123	-166727,140	320023,123
5A26	1750	250	-33107	-8162,09	65662,1	678,7647	240,9291	154583,755	-211486,006	154583,755
		1125	-36379	-6698,74	65662,1	678,7647	240,9291	172686,349	-230549,393	172686,349
		2000	-30944	-5741,71	65662,1	678,7647	240,9291	191317,294	-248130,342	191317,294
5A27	2750	0	5392,16	4339,81	63100,34	678,7647	240,9291	147405,878	-273116,997	147405,878
		1375	19749,2	6731,09	63100,34	678,7647	240,9291	177605,125	-303315,243	177605,125
		2750	37386	9906,69	63100,34	678,7647	240,9291	210178,634	-330828,203	210178,634
5A28	3750	0	22074,3	10612,86	58421,81	678,7647	240,9291	172242,825	-279905,120	172242,825
		1375	32636,7	15039,48	58421,81	678,7647	240,9291	210687,867	-316948,160	210687,867
		2750	86070,6	21906,61	58421,81	678,7647	240,9291	252697,422	-358747,715	252697,422
5A29	2750	0	37506,4	20449,47	30135,09	678,7647	240,9291	366514,927	-255971,000	255971,000
		1375	136030	38176,61	30135,09	678,7647	240,9291	290727,145	-277982,216	277982,216
		2750	127440	44548,22	30135,09	678,7647	240,9291	319893,911	-307149,980	307149,980
5A3	2750	250	-1151965	-42080,13	30891,9	678,7647	240,9291	-60662,106	-78727,439	60662,106
		1625	-121749	-36012,94	30891,9	678,7647	240,9291	-26962,541	-36487,871	26862,541
		3000	-91193	-31706,38	30891,9	678,7647	240,9291	10182,488	617,159	617,159

5A30	2750	0	10730	53610,43	30077,8	678,7647	240,9291	291470,407	260985,7836	260985,7836	
		1375	13766,7	47331,02	30077,8	678,7647	240,9291	328513,5304	317630,9775	317630,9775	
		2750	17126,2	40914,2	30077,8	678,7647	240,9291	390031,079	399460,5205	399460,5205	
5A31	2750	0	8778,45	55480,96	29447,06	678,7647	240,9291	266672,855	251039,1491	251039,1491	
		1375	10629,9	32177,12	29447,06	678,7647	240,9291	291053,982	278451,4251	278451,4251	
		2750	12278,5	44044,21	29447,06	678,7647	240,9291	320051,035	304610,1701	304610,1701	
5A32	2750	0	-48965,5	16050,81	31772,96	678,7647	240,9291	201362,479	220697,5069	201702,4771	
		1375	69460,8	12304,09	31772,96	678,7647	240,9291	231556,713	230899,8836	231556,7133	
		2750	97799,4	21017,69	31772,96	678,7647	240,9291	264110,232	262467,1356	264110,2325	
5A33	2750	0	429,51	16031,04	33028,61	678,7647	240,9291	200123,613	224674,9651	200123,6133	
		1375	49702,1	16944,33	33028,61	678,7647	240,9291	231419,961	251870,7141	231419,9611	
		2750	97866,9	17573,92	33028,61	678,7647	240,9291	263992,381	279444,464	263992,3811	
5A34	2750	0	2780,5	30487,95	29716,27	678,7647	240,9291	267139,619	252615,6645	252615,6645	
		1375	10678,7	30214,3	29716,27	678,7647	240,9291	291562,316	277127,8736	277127,8736	
		2750	18149,8	44581,68	29716,27	678,7647	240,9291	320729,596	306394,6201	306394,6201	
5A35	2750	0	1072,38	31762,93	31240,31	678,7647	240,9291	297855,082	283753,0761	283753,0761	
		1375	13839,2	40486,72	31240,31	678,7647	240,9291	325901,103	320794,1003	320794,1003	
		2750	17153,4	49935,7	31240,31	678,7647	240,9291	370699,661	362897,6555	362897,6555	
5A36	2750	0	8287,9	33271,12	31301,96	678,7647	240,9291	287665,215	275817,9335	275817,9335	
		1375	10886,4	36237,3	31301,96	678,7647	240,9291	312017,427	284420,1497	284420,1497	
		2750	12836,8	44061,89	31301,96	678,7647	240,9291	331018,199	313896,913	313896,913	
5A37	2750	0	2780,5	11504,19	29716,27	678,7647	240,9291	176442,678	194525,9165	176445,6705	
		1375	10110,3	16691,25	29716,27	678,7647	240,9291	213497,709	213990,9561	213497,7097	
		2750	17553,8	26908,13	29716,27	678,7647	240,9291	253287,264	272880,611	253287,2642	
5A38	2750	0	4126,9	5126,9	63915,63	678,7647	240,9291	149030,289	208355,2206	149030,2895	
		1375	6042,9	7490,18	63915,63	678,7647	240,9291	179247,136	216791,472	179247,1362	
		2750	5632,7	10673,78	63915,63	678,7647	240,9291	211820,656	249354,992	211820,656	
5A4	2750	250	-113999	-40186,56	28611,49	678,7647	240,9291	-24623,101	-42769,153	-24623,1007	
		1625	94529	-33821,37	29611,49	678,7647	240,9291	4543,669	14499,259	4543,669	
		3000	170096	-29694,81	28611,49	678,7647	240,9291	28955,336	9210,828	9210,828	
5A40	2250	0	-141571	-10513,47	549,81	678,7647	240,9291	115476,011	124854,166	115476,011	
		1125	-36882	-10513,47	549,81	678,7647	240,9291	124242,534	138717,643	124242,534	
		2250	34473	-10513,4	549,81	678,7647	240,9291	133009,068	134781,109	133009,068	
5A42	2000	0	26735,5	10870,53	549,81	678,7647	240,9291	231040,454	41796,605	41796,605	
		1000	34179,9	10870,53	549,81	678,7647	240,9291	238882,924	49989,079	49989,079	
		2000	41709,2	10870,53	549,81	678,7647	240,9291	246625,393	57281,545	57281,545	
5A47	2000	0	5004,72	11905,35	468,83	678,7647	240,9291	236508,31	48922,548	48922,548	
		1000	38888,7	11905,35	468,83	678,7647	240,9291	244090,703	54714,816	54714,816	
		2000	44701,1	11905,35	468,83	678,7647	240,9291	251091,235	62507,208	62507,208	
5A49	2250	0	6530	-9478,65	468,83	678,7647	240,9291	120941,870	-47355,423	120941,870	
		1125	-491,51	-9478,65	468,83	678,7647	240,9291	129709,404	-35191,389	129709,404	
		2250	7020,1	-9478,65	468,83	678,7647	240,9291	138474,927	-23027,366	138474,927	
5A5	2750	250	22652	-4436,9	44132,94	678,7647	240,9291	110866,831	56413,569	110866,831	
		1625	51286	-1253,31	44132,94	678,7647	240,9291	132612,205	139659,243	132612,205	
		3000	109556	1109,97	44132,94	678,7647	240,9291	151980,326	190027,365	151980,326	
5A6	2750	250	22651	-4624,77	44032,11	678,7647	240,9291	109936,667	146500,220	109936,667	
		1625	52284	-1441,18	44032,11	678,7647	240,9291	131682,041	177305,594	131682,041	
		3000	102257	922,1	44032,11	678,7647	240,9291	151050,163	196673,715	151050,163	
5A7	2750	250	-115239	-40097,59	28879,88	678,7647	240,9291	-24094,415	-42110,229	-24094,415	
		1625	-84116	-33730,4	28879,88	678,7647	240,9291	5072,338	-12943,476	5072,338	
		3000	-15293	-29003,84	28879,88	678,7647	240,9291	29484,565	11462,751	11462,751	
5A8	2750	250	-154531	-42697,02	31660,34	678,7647	240,9291	67799,679	-74167,569	-67799,679	
		1625	-121110	-36329,89	31660,34	678,7647	240,9291	86000,102	-52337,964	-26000,102	
		3000	-90365	-31803,35	31660,34	678,7647	240,9291	110447,927	-4767,045	4767,045	
5A9	2750	250	-113471	-39028,07	30725,36	678,7647	240,9291	-20755,936	-31030,728	-20755,936	
		1625	-92006	-32660,88	30725,36	678,7647	240,9291	9410,823	-17793,975	9410,823	
		3000	-73489	-27934,32	30725,36	678,7647	240,9291	32833,096	-2558,255	32558,255	
5B1	4200	150	-16843	-5458,67	-831,03	302,42	185,9367	776,899	-269801,804	776,899	
		2250	-603,81	-378,67	-831,03	302,42	185,9367	23304,256	-4523,514	23304,256	
		4350	15615,6	4671,33	-831,03	302,42	185,9367	45631,636	17873,856	17873,856	
5B10	4025	250	-34374	-6687,32	-87,45	302,42	185,9367	-17792,332	-45482,028	-17792,332	
		2062,5	192,36	-1093,77	-87,45	302,42	185,9367	24375,983	-1313,771	24375,983	
		4075	34020	4421,08	-87,45	302,42	185,9367	66315,629	40625,876	40625,876	
5B11	4030	225	-16306	-5739,63	216,65	302,42	185,9367	-18981,271	-43237,593	-18981,271	
		2250	-1641,9	-177,91	216,65	302,42	185,9367	23255,341	-1000,081	23255,341	
		4275	33021,8	5383,81	216,65	302,42	185,9367	65492,063	41235,842	41235,842	
5B12	4030	225	-35292	-5965,51	-3216,43	302,42	185,9367	-18153,803	-52628,961	-18153,803	
		2250	-627,93	-403,79	-3216,43	302,42	185,9367	34082,909	-10392,249	24082,909	
		4275	34035,9	5177,93	-3216,43	302,42	185,9367	66319,631	31844,463	31844,463	
5B13	4550	225	-25165	-4556,17	2493,59	302,42	185,9367	-19004,456	-51275,998	-19004,456	
		2500	1471,77	380,54	2493,59	302,42	185,9367	24345,066	12376,004	12376,004	
		4775	36106,5	5317,26	2493,59	302,42	185,9367	67995,578	56026,016	56026,016	
5B14	4550	225	-35901	-4684,75	2597,06	302,42	185,9367	-20214,135	-51707,123	-20214,135	
		2500	703,97	251,97	2597,06	302,42	185,9367	25435,877	11940,889	11940,889	
		4775	37368,7	5188,89	2597,06	302,42	185,9367	67085,889	55592,901	55592,901	



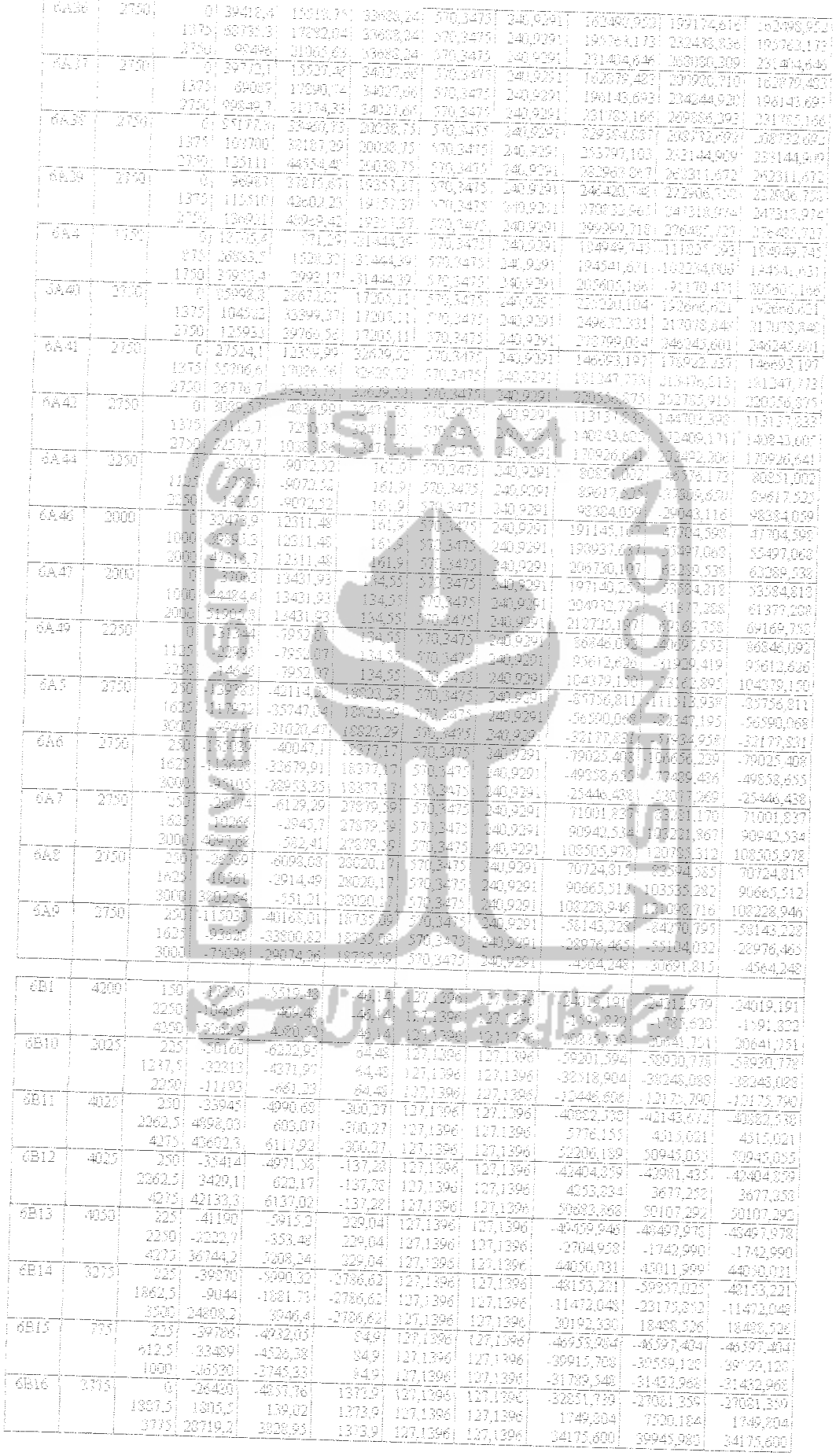
SB58	1970	0	16561,6	7330,61	26212,17	302,42	183,9367	76715,430	1504451,929	76715,430	
		997,5	23569,7	8469,63	26872,15	302,42	183,9367	90392,709	1491189,201	90392,709	
		1970	40018,7	10144,7	26872,15	302,42	183,9367	108102,412	1468836,918	108102,412	
SB59	4050	250	7130,08	-17315,23	1430,99	302,42	183,9367	-1109444,492	1360894,345	-1109444,492	
		2375	-6107,1	-10492,79	430,95	302,42	183,9367	-51161,472	-79911,524	-51161,472	
		4500	-9935,8	-6266,84	-430,95	302,42	183,9367	6923,472	-12826,124	6923,472	
SB4	2100	150	6946,09	2794,8	3871,746	302,42	183,9367	507210,125	1702794,651	507210,125	
		1200	10666,8	2794,8	3871,746	302,42	183,9367	584086,340	1776657,186	623009,796	
		2250	14617,5	2794,8	3871,746	302,42	183,9367	641900,623	1834473,421	681203,625	
SB40	4250	250	-112830	-15342	-287,69	302,42	183,9367	-1104921,549	1360894,345	-1104921,549	
		2475	-6071,1	-10421,57	-287,69	302,42	183,9367	50710,528	1763800,669	50710,528	
		4500	-9827,5	-6182,1	-287,69	302,42	183,9367	7574,422	1891235,139	7574,422	
SB3	2100	150	9788,91	3962,04	3921,767	302,42	183,9367	618901,563	1702794,651	618901,563	
		1200	13477,6	2952,94	3921,767	302,42	183,9367	681766,758	1819660,292	681766,758	
		2250	17188,3	3552,94	3921,767	302,42	183,9367	696803,223	1834473,421	696803,223	
SB6	2100	150	11791,6	1594,49	3223,63	302,42	183,9367	62074,630	1771054,762	62074,630	
		1200	16830,8	3456,96	3223,63	302,42	183,9367	71715,760	1834473,421	71715,760	
		2250	21901	5404,49	3223,63	302,42	183,9367	81469,506	1923914,032	81469,506	
SB5	4050	250	-34515	-5891,59	-1568,27	302,42	183,9367	-1726010,654	-52574,370	-1726010,654	
		2250	1482,77	339,03	-1568,27	302,42	183,9367	24978,039	1014048,47	24978,039	
		4275	34612,6	6021,89	-1568,27	302,42	183,9367	67712,931	2009965,865	67712,931	
SB8	4050	225	-30954	-5301,54	-1411,44	302,42	183,9367	-1553409,589	-45767,733	-1553409,589	
		2250	-12901,6	-1411,44	-1411,44	302,42	183,9367	33662,409	1031,047	33662,409	
		4275	46373,1	7400,14	-1411,44	302,42	183,9367	61469,506	1923914,032	61469,506	
SB9	4050	225	-3466	-6659,98	-439,3	302,42	183,9367	-1810,175	-45767,733	-1810,175	
		2362,5	1,2	-1066,21	-439,3	302,42	183,9367	24062,301	-1031,047	24062,301	
		4275	34098,3	4448,91	-439,3	302,42	183,9367	66007,758	38842,325	38842,325	
SBK1	2350	250	-4100	-1683,19	2945,7	244,1098	0	69070,109	1013782,649	69070,109	
		1425	-946,95	708,26	3945,01	244,1098	0	91271,330	1340778,370	91271,330	
		2600	11899,6	2219,52	3945,07	244,1098	0	112647,062	1453449,602	112647,062	
SBK10	2350	150	-14867	-2910,97	-2948,71	244,1098	0	71469,013	1015150,334	71469,013	
		1425	-3067,7	401,44	-2948,71	244,1098	0	88385,372	1332313,264	88385,372	
		2500	9001,52	2329,66	-2948,71	244,1098	0	100968,494	1453150,340	100968,494	
SBK11	2500	250	-5490	-1708,51	4264,31	244,1098	0	10300,669	1023327,667	10300,669	
		1500	-8202	-11647,49	4264,31	244,1098	0	38461,070	1291867,266	38461,070	
		2750	-11400	-7741,57	4264,31	244,1098	0	54419,757	1331108,578	54419,757	
SBK12	2500	250	-6600	-21014,37	-491,63	244,1098	0	3754,590	1023327,667	3754,590	
		1500	-4818	-13426,71	-491,63	244,1098	0	24014,991	1291867,266	24014,991	
		2750	1782	-11717,46	-491,63	244,1098	0	39973,679	1331108,578	39973,679	
SBK13	2500	250	-3042	-16103,2	2017,08	244,1098	0	10281,282	1023327,667	10281,282	
		1500	-5832	-12712,58	2017,08	244,1098	0	35511,602	1291867,266	35511,602	
		2700	-744	-8806,33	2017,08	244,1098	0	51470,360	1331108,578	51470,360	
SBK14	2350	250	-47068	-3572,43	30929,99	244,1098	0	83446,510	1023327,667	83446,510	
		1425	3722,82	27,24	30929,99	244,1098	0	94850,539	1338364,542	94850,539	
		2600	11906,2	3146,93	30929,99	244,1098	0	105429,310	1462448,313	105429,310	
SBK15	775	0	63936,3	1512,52	16811,18	244,1098	0	343279,144	1382378,258	138278,258	
		387,5	64305	1512,52	16811,18	244,1098	0	344717,039	1399716,129	139716,129	
		775	65622,2	1512,52	16811,18	244,1098	0	346154,937	1417154,031	141154,031	
SBK16	775	0	62256,8	1474,81	17059,15	244,1098	0	342841,169	1382831,757	138831,757	
		387,5	63926,4	1474,81	17059,15	244,1098	0	344279,091	1400219,659	140219,659	
		775	65295,2	1474,81	17059,15	244,1098	0	345716,990	1417657,560	141657,560	
SBK17	775	0	13428,9	-5119,39	2967,11	244,1098	0	288473,145	1382371,000	288473,145	
		387,5	16794,4	-5112,24	2967,11	244,1098	0	289911,046	1399811,898	289911,046	
		775	20159,9	-5105,09	2967,11	244,1098	0	291348,937	1417252,797	291348,937	
SBK18	775	0	15877,4	-3114,13	-30178,2	244,1098	0	289009,306	-113346,996	289009,306	
		387,5	17246,8	-3114,12	-30178,2	244,1098	0	290447,197	-111909,105	290447,197	
		775	18616,3	-3114,12	-30178,2	244,1098	0	291885,099	-110471,204	291885,099	
SBK2	3450	150	-17709	-655,1	-21290,64	244,1098	0	67880,433	-1087221,334	67880,433	
		1375	-2681,7	-655,1	-21290,64	244,1098	0	83660,728	-92922,089	83660,728	
		2600	12366,4	-655,1	-21290,64	244,1098	0	99481,012	-77101,705	99481,012	
SBK3	2500	250	-34745	-13320,62	6233,52	244,1098	0	36019,908	-23237,665	36019,908	
		1500	-20940	-6939,99	6233,52	244,1098	0	56280,395	-2977,254	56280,399	
		2750	-9547,1	3022,74	6233,52	244,1098	0	72239,087	12981,434	12981,434	
SBK4	2500	250	-34153	-20200,7	200,3	244,1098	0	7366,895	-77229,445	7366,895	
		1900	-40248	-14810,08	200,3	244,1098	0	27627,296	-56969,042	27627,296	
		2750	-38956	-10905,33	200,3	244,1098	0	43555,983	-41010,304	43555,983	
SBK5	2500	250	-47201	-17263,36	4024,87	244,1098	0	17750,450	-50782,534	17750,450	
		1500	-33296	-11872,76	4024,87	244,1098	0	38010,851	-30082,133	38010,851	
		2750	-20004	-7066,51	4024,87	244,1098	0	53969,538	-14464,445	53969,538	
SBK6	2350	150	-16574	-10007,46	-29181,67	244,1098	0	69701,739	-143753,211	69701,756	
		1325	-4595,5	525,33	-29181,67	244,1098	0	86618,310	-126836,641	86618,318	
		2500	8194,74	5483,17	-29181,67	244,1098	0	103201,339	-109253,730	103201,339	
SBK7	2350	150	9222,1	-2141,74	947,83	244,1098	0	90909,281	-14062,960	20009,281	
		1325	-236,82	24,67	-947,83	244,1098	0	90648,197	-4224,646	90648,197	
		2500	2214,5	2478,57	-947,83	244,1098	0	102119,678	7246,833	7246,833	

5B02	2000	0	-9134,7	-347,81	436,73	244,1098	0	72035,600	-3130,191	72019,660	
		1310	-275,46	-247,81	436,73	244,1098	0	77121,200	1301,412	1321,412	
		2750	4,03,77	-247,8	-436,73	244,1098	0	92254,960	6492,694	6497,614	
5B09	2300	125	-5107,3	-3130,31	1943,98	244,1098	0	50001,654	-14760,617	50019,954	
		1300	-192,11	32,09	-442,98	244,1098	0	90720,171	-4122,800	90730,171	
		1500	2979,21	249,94	442,98	244,1098	0	10203,662	1349,199	3249,199	
5C1	4050	225	-12396	-5005,01	907,08	108,1772	74,27159	-11472,630	-15405,004	-11477,630	
		2250	1660,43	507,01	907,08	108,1772	74,27159	9454,652	1719,096	5719,096	
		4275	14209	6119,72	907,08	108,1772	74,27159	30701,965	269,46,410	26946,410	
5C10	4000	0	-20796	9014,12	1970,28	108,1772	74,27159	35722,157	-22556,767	-22555,567	
		2250	2660,17	2366,48	1492,21	108,1772	74,27159	14051,673	14026,338	14031,673	
		4500	21016,6	14133,42	1492,21	108,1772	74,27159	4831,425	9668,826	4831,425	
5C11	5000	0	-20699	-12193,99	2728,83	108,1772	74,27159	55047,850	-47029,787	55047,850	
		2500	1357,3	421,46	960,83	108,1772	74,27159	9249,222	-3961,112	9249,222	
		5005	24832,7	13991,05	2861,83	108,1772	74,27159	43107,912	29796,511	43746,511	
5C12	4500	0	-20577	-9725,46	-3130,96	108,1772	74,27159	-26944,042	-49137,087	-26944,042	
		2250	9824	2549,52	-3130,96	108,1772	74,27159	15874,917	-157,036	15874,957	
		4500	32025	14424,92	-3130,96	108,1772	74,27159	50564,823	39201,964	2961,1564	
5C13	4500	0	-17667	-12570,59	2754,74	108,1772	74,27159	-50234,097	-51334,136	-50234,097	
		2250	1994,03	-402,99	2754,74	108,1772	74,27159	2743,690	-2743,690	2743,690	
		4500	27	13710,9	2754,74	108,1772	74,27159	47753,787	-5712,450	4771,450	
5C14	4500	0	-16669	-11781,2	2754,74	108,1772	74,27159	-34933,787	-1297,401	34932,760	
		2250	1390,2	504,13	2754,74	108,1772	74,27159	9664,040	2117,657	9664,040	
		4500	23	12319,13	90,22	108,1772	74,27159	45619,940	13682,113	38662,112	
5C15	4500	0	-17268	-12268,46	1211,21	108,1772	74,27159	-39225,387	-40,28,461	-39225,387	
		2250	-5138,3	-1203,46	1211,21	108,1772	74,27159	754,499	742,661	754,499	
		4500	22469	11051,55	1211,21	108,1772	74,27159	40734,209	39231,150	39231,150	
5C16	4000	0	-15674	13740,12	1207,48	108,1772	74,27159	39414,196	-40403,754	-39414,196	
		2250	-1867,3	-1867,13	1207,48	108,1772	74,27159	965,004	965,093	965,004	
		4500	21922	10007,32	1207,48	108,1772	74,27159	40040,407	39023,007	39023,007	
5C17	4500	0	-15963	-11998,29	-99	108,1772	74,27159	-34099,810	-41605,218	24999,672	
		2250	1716,6	476,1	-99	108,1772	74,27159	3280,148	3280,414	5280,148	
		4500	24054	12260,71	-99	108,1772	74,27159	43559,958	38358,397	38358,397	
5C18	4500	0	-12236,52	-8,10	440,34	108,1772	74,27159	-32207,091	-39,30,404	-32207,091	
		2250	1083,6	-483,1	440,34	108,1772	74,27159	7772,705	6039,376	5039,376	
		4500	22375,1	11220,6	440,34	108,1772	74,27159	47752,509	43009,178	43009,176	
5C19	4500	0	-9309,3	-7020,76	-1,99	108,1772	74,27159	25002,766	-41048,631	-25002,766	
		2250	2485,67	2250,944	-1,99	108,1772	74,27159	14977,032	1968,237	14977,032	
		4500	31701,4	14760,67	-1,99	108,1772	74,27159	54956,811	38410,963	38910,963	
5C2	4000	225	-2995,67	1053,3	108,1772	74,27159	-11896,666	-14799,257	-11892,066		
		2250	366,03	10,33	108,1772	74,27159	9328,696	8328,696	8328,696		
		4275	6127,77	1053,3	108,1772	74,27159	28355,958	27455,358	27455,358		
5C20	5000	0	-12256,38	254,33	108,1772	74,27159	-36111,697	-40930,356	-36111,697		
		2500	-693,08	253,33	108,1772	74,27159	3580,928	-1227,731	3580,928		
		5000	24882,4	10062,62	254,33	108,1772	74,27159	43273,553	28404,899	28404,899	
5C2	4500	0	-9614	-9612,66	1881,85	108,1772	74,27159	-24935,137	-33604,129	-23624,1291	
		2250	2700	3262,34	1881,85	108,1772	74,27159	15044,663	13933,672	15044,663	
		4500	31285	14157,34	1881,85	108,1772	74,27159	55034,463	38772,472	53024,463	
5C24	4500	0	-9455	-11217,71	-150,99	108,1772	74,27159	-32143,965	-39670,044	-32143,965	
		2250	1646,26	-442,37	-150,99	108,1772	74,27159	7809,880	609,756	609,756	
		4500	27947,3	11412,63	-150,99	108,1772	74,27159	47316,631	40539,556	40539,556	
5C5	4500	0	-11440,7	-11,03	1,46	108,1772	74,27159	-34463,096	-41139,021	-34463,096	
		2250	454,3	454,3	1,46	108,1772	74,27159	5416,404	-1157,221	5416,404	
		4500	24243,3	12269,33	1,46	108,1772	74,27159	45368,712	38020,579	38020,579	
5C6	4500	0	-31259	-14067,72	-452,39	108,1772	74,27159	-40995,958	-49950,778	-40995,958	
		2250	-3253,9	-3192,72	-452,39	108,1772	74,27159	-1016,148	-9550,947	1016,148	
		4500	31149,1	9630,53	-452,39	108,1772	74,27159	38962,632	30408,873	30408,873	
5C7	4500	0	-31469	-14119,18	-430,97	108,1772	74,27159	-41795,576	-49711,011	-41795,576	
		2250	-3287,6	-3244,18	-430,97	108,1772	74,27159	1310,776	-9791,211	-1310,776	
		4500	30912,2	9630,82	-430,97	108,1772	74,27159	38664,024	30245,589	30045,589	
5C8	4500	0	-27897	-11454,84	-3,95	108,1772	74,27159	-34727,101	-41356,403	-34727,101	
		2250	-1896,4	430,16	-3,95	108,1772	74,27159	5252,699	-1356,632	5252,699	
		4500	34504,6	12295,18	-3,95	108,1772	74,27159	40033,466	29603,148	32623,145	
5C9	4500	0	-24528	-12541,48	-103,25	108,1772	74,27159	-32130,714	-39241,127	-32130,714	
		2250	1662,92	-466,48	-103,25	108,1772	74,27159	7849,066	738,675	738,675	
		4500	27864	11400,52	-103,25	108,1772	74,27159	47838,886	40718,475	40718,475	
5D1	2250	135	-20042	-4305,44	-2890,44	95,12375	95,12375	-25670,077	-37809,923	-25670,077	
		1290	-976,13	-357,32	-2890,44	95,12375	95,12375	-1400,018	-13939,666	-1400,018	
		2295	-14921,3	-1706,65	-2890,44	95,12375	95,12375	17322,795	5162,947	5162,947	
5D10	4575	0	7226,3	-2864,99	3772,28	95,12375	95,12375	-10490,576	925,0,751	10490,576	
		2137,5	6402,43	2492,01	3772,28	95,12375	95,12375	9564,162	25707,732	9564,162	
		4215	21622,1	9059,23	3772,28	95,12375	95,12375	31407,894	47251,470	31407,894	

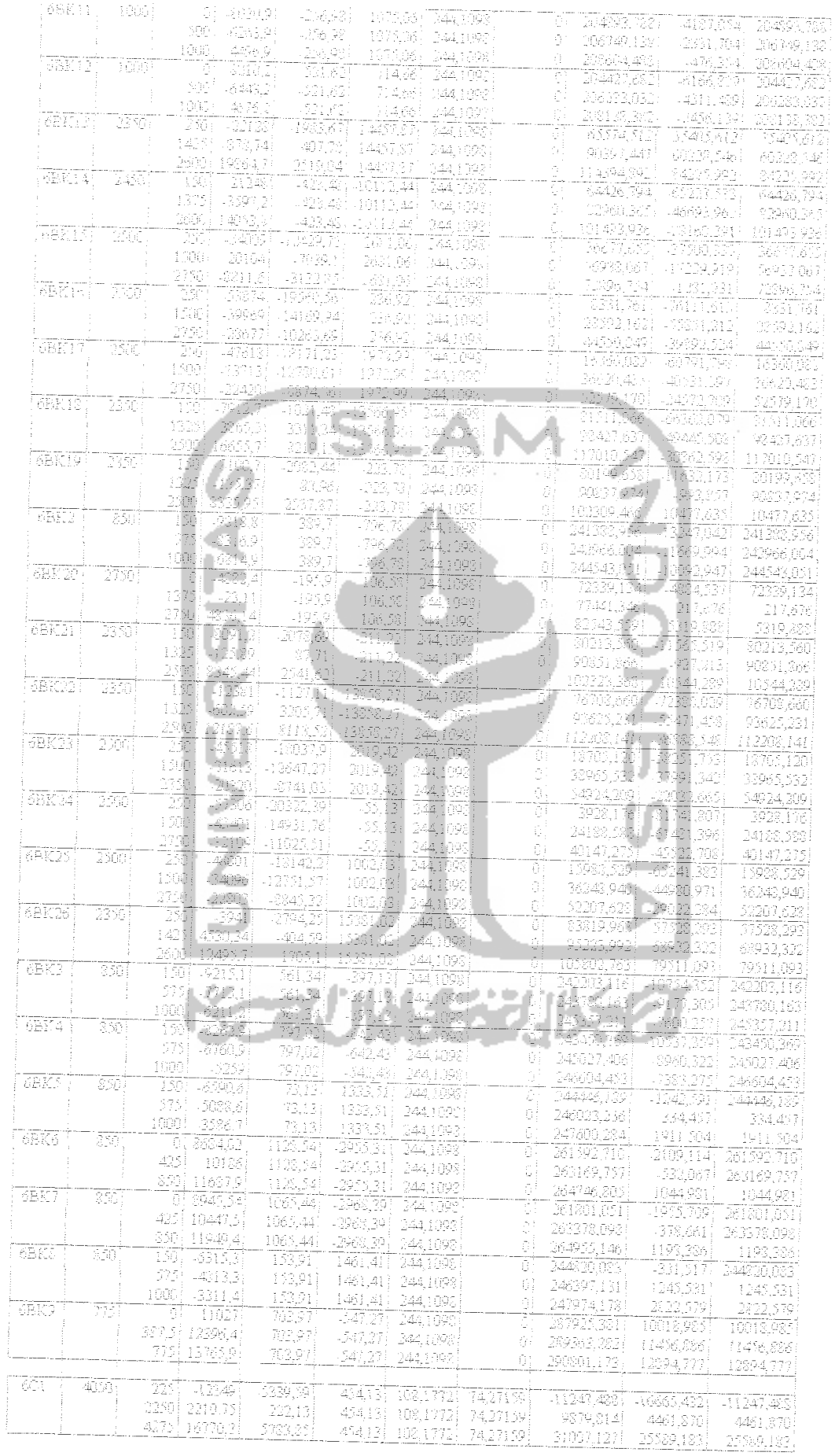
UNIVERSITAS ISLAM INDONESIA

3D11	4500	0	-14674	-5916,26	492,03	95,12275	95,12275	-3072,803	-1238,279	13961,279	
		2250	209,08	385,62	492,03	95,12275	95,12275	604,435	2671,011	664,435	
		4500	18434,2	5463,3	492,03	95,12275	95,12275	21706,796	6910,422	21706,796	
3D10	3500	0	-16546	-6049,96	0,396	95,12275	95,12275	-5127,979	-1872,818	-5127,979	
		2250	-1754	-678,04	0,396	95,12275	95,12275	-1295,674	-2594,010	-1295,674	
		4500	12900,1	4693,99	0,396	95,12275	95,12275	19536,827	10128,892	19536,827	
3D12	4875	0	-10084	-4712,34	2017,45	95,12275	95,12275	-13431,257	-9658,035	-9658,035	
		3437,5	17746,17	1903,94	2017,45	95,12275	95,12275	9012,837	16606,033	9012,837	
		4875	21796,2	7320,67	2017,45	95,12275	95,12275	32982,419	42175,832	32982,419	
3D14	1000	0	-39778	-10,9034	30,3	95,12275	95,12275	-41709,453	-4704,135	-41845,190	
		2500	-31,62	-0,94148	30,3	95,12275	95,12275	-34,150	95,110	-34,150	
		3000	607,44	-0,90934	30,3	95,12275	95,12275	41699,153	41,24,410	41699,153	
3D13	3414,2	0	7888,5	1511,01	18741,47	95,12275	95,12275	9441,106	19770,075	-9541,086	
		707,11	17142,8	1511,01	18741,47	95,12275	95,12275	17472,431	20280,902	17472,431	
		1414,21	25136,7	1511,01	18741,47	95,12275	95,12275	25503,756	20962,730	25503,756	
3D16	3414,2	0	6782,51	1475,71	17028,85	95,12275	95,12275	8671,773	18142,348	8671,773	
		707,11	14812,6	1475,71	17028,85	95,12275	95,12275	17102,760	19623,938	17102,760	
		1414,21	22842,6	1475,71	17028,85	95,12275	95,12275	25534,173	21105,528	25534,173	
3D17	4706	250	-5141	-1660,68	-18896,78	95,12275	95,12275	-34731,552	-8973,540	-34731,735	
		2625	-4446,7	-1368,28	-18896,74	95,12275	95,12275	-6141,407	-6141,815	-6412,707	
		3000	25503,9	-1068,68	-18896,74	95,12275	95,12275	31906,718	33092,190	21906,310	
3D18	4700	250	-5141	-1660,68	-18896,78	95,12275	95,12275	-34731,552	-8973,540	-34731,735	
		2625	-4446,7	-1368,28	-18896,74	95,12275	95,12275	-6141,407	-6141,815	-6412,707	
		3000	25503,9	-1068,68	-18896,74	95,12275	95,12275	31906,718	33092,190	21906,310	
3D1	2375	0	-2445	-2445,12	6745,72	95,12275	95,12275	-3117,693	-3490,257	8129,377	
		1187,5	1553	4097,97	6745,72	95,12275	95,12275	16175,667	14496,749	16175,667	
		2375	31302,1	10146,64	6745,72	95,12275	95,12275	30916,188	29147,372	30916,188	
3D3	4500	0	-14484	-5474,99	513	95,12275	95,12275	-30935,811	-18785,477	-19735,477	
		2250	420,18	-103,11	513	95,12275	95,12275	196,484	1348,824	196,424	
		4500	19084,3	5268,76	513	95,12275	95,12275	21328,700	23479,124	21328,724	
3D4	4500	0	-13681,7	-5314,91	311,51	95,12275	95,12275	-21342,053	-20039,723	-20039,723	
		2250	-2612,49	-56,99	311,51	95,12275	95,12275	-415,723	1092,576	-215,723	
		4500	18271,3	5420,9	311,51	95,12275	95,12275	20916,607	22224,078	20916,578	
3D5	4375	0	-12611,6	-2651,06	3713,51	95,12275	95,12275	-10120,877	-5471,578	-10120,877	
		2187,5	5044,42	2505,69	3713,51	95,12275	95,12275	10234,111	10930,365	10234,111	
		4375	24129,8	8072,44	3713,51	95,12275	95,12275	31777,883	27332,037	31777,883	
3D6	4250	0	-6405,5	-3791,8	3694,31	95,12275	95,12275	-13614,819	-986,717	-986,717	
		2250	6618,57	1800,5	3694,31	95,12275	95,12275	6951,651	12778,753	6951,651	
		4250	19446	6932,93	3694,31	95,12275	95,12275	27718,121	26548,223	27718,121	
3D7	4375	0	-5113	-114,08	-47,12	95,12275	95,12275	-6117,357	-4316,013	-6117,357	
		2187,5	-4593,5	-114,92	-47,12	95,12275	95,12275	-706,419	-904,375	-706,419	
		4375	4586,5	-114,98	-47,12	95,12275	95,12275	4705,019	4306,963	4306,963	
3D8	4375	0	-5041,1	-104,08	-42,39	95,12275	95,12275	-6030,310	-4238,348	-6030,310	
		2187,5	-4594,17	-104,08	-42,39	95,12275	95,12275	-638,878	918,911	-638,872	
		4375	4594,2	-104,08	-42,39	95,12275	95,12275	4776,562	4594,527	4594,527	
3D9	4250	125	-3805,5	-3805,66	2964,31	95,12275	95,12275	-14288,245	-1837,364	-1837,364	
		2250	4628,86	1547,28	2964,31	95,12275	95,12275	6478,122	18929,106	6478,122	
		4375	13047,5	6894,62	2964,31	95,12275	95,12275	27344,592	29965,176	27344,592	
5F1	2125	0	1657	6428,81	-550,37	73,51962	50,89207	33228,806	21624,028	21624,028	
		1062,5	20840,1	9247,11	-550,37	73,51962	50,89207	42008,815	31380,038	31380,038	
		2125	29309,3	12069,4	-550,37	73,51962	50,89207	51704,409	41136,029	41136,029	
5F2	4500	0	4208	6615,79	-124	73,51962	50,89207	14627,490	14027,492	14027,490	
		2250	7742,4	2518,32	-124	73,51962	50,89207	19238,588	10023,546	10023,546	
		4500	26964,3	11640,1	-124	73,51962	50,89207	23848,334	41004,593	41004,592	
5F3	4500	0	-11936	-6819,05	-127,27	73,51962	50,89207	-14662,308	-15996,644	-14662,308	
		2250	7213,4	2514,15	-127,27	73,51962	50,89207	15138,729	10204,364	10204,394	
		4500	26964,3	11640,19	-127,27	73,51962	50,89207	44939,776	41005,441	41005,441	
5F4	2125	0	-1961,1	-12449,41	-808,65	73,51962	50,89207	24048,589	-37062,060	-24048,589	
		1062,5	-13144	9627,12	-808,65	73,51962	50,89207	-14592,526	-37306,109	-14592,526	
		2125	-6015	-6004,83	-808,65	73,51962	50,89207	-4836,595	-17570,068	-4836,595	
6A1	1750	0	18503,8	1266,33	-2984,07	570,3475	240,9291	155470,125	-104584,169	185470,125	
		875	26681,9	2225,57	-2984,07	570,3475	240,9291	193062,022	-64992,272	193062,022	
		1750	35723,7	3690,41	-2984,07	570,3475	240,9291	206125,546	63935,747	206125,546	
6A10	2750	250	-10091,5	-4511,15	18892,75	570,3475	240,9291	-67411,993	-92877,080	-67411,843	
		1625	-99505	-36742,96	18892,75	570,3475	240,9291	-38245,130	-63710,535	-38245,130	
		3000	80992	33016,4	18892,75	570,3475	240,9291	-13832,913	30168,308	-13832,913	
6A11	1000	0	-7973,3	-2838,13	18165,41	570,3475	240,9291	179501,343	-70435,029	179521,343	
		500	-7354,6	-2240,63	18165,41	570,3475	240,9291	187493,158	-34403,219	187493,158	
		1000	-6730,2	-2099,13	18165,41	570,3475	240,9291	195464,968	-16481,409	195464,968	
6A12	1000	0	-7737,3	-3281,32	16673,65	570,3475	240,9291	181999,169	-30212,600	181999,169	
		500	-7371,9	-2240,72	16673,65	570,3475	240,9291	187311,644	-30900,125	187311,644	
		1000	-7006,6	-2099,21	16673,65	570,3475	240,9291	192624,119	-25587,650	192624,119	

6A13	2750	250	-20166	-5404,2	-30029,76	570,3475	240,9291	77934,304	12899,1107	77934,3041	
		1625	-9482	-2250,6	-30029,76	570,3475	240,9291	91991,725	-1138459,686	91991,725	
		3000	-344,43	112,68	-30029,76	570,3475	240,9291	103187,618	-1237948,601	103187,618	
6A14	2750	250	-21019	-5252,19	-33030,78	570,3475	240,9291	67899,0357	179553,3667	67899,0357	
		1625	-16006	-4168,58	-33030,78	570,3475	240,9291	83631,5721	-1509912,664	83631,5721	
		3000	-1642,8	1895,8	-33030,78	570,3475	240,9291	101194,075	-1423449,246	101194,075	
6A15	1700	0	55698,5	15384,37	27517,27	570,3475	240,9291	311474,776	1650097,547	1650097,547	
		550	38445,6	11742,7	27517,27	570,3475	240,9291	316056,046	170491,218	170491,218	
		1100	44033,8	14297,07	27517,27	570,3475	240,9291	314439,318	177964,492	177964,492	
6A16	1170	0	38214,1	10405,84	27832,3	570,3475	240,9291	311725,547	165741,699	165741,6997	
		550	33961,9	15779,91	27832,3	570,3475	240,9291	317105,011	171123,309	171123,3099	
		1100	44139,7	14918,84	27832,3	570,3475	240,9291	314458,283	173896,531	173896,5311	
6A17	3000	0	44000	-5431,66	17825,89	570,3475	240,9291	57976,068	11744,758	11744,758	
		1000	31736	-4979,16	17825,89	570,3475	240,9291	114009,128	46317,9781	46317,9781	
		2000	1510,54	20,34	17825,89	570,3475	240,9291	145728,479	76476,087	76476,0871	
6A18	2000	0	42046	-10617,2	15584,28	570,3475	240,9291	51705,598	3541,975	3541,975	
		1000	-36542	-8161,5	15584,28	570,3475	240,9291	109761,748	31115,173	31115,173	
		2000	-6295,7	-1161,3	15584,28	570,3475	240,9291	139440,415	60773,285	60773,285	
6A19	4000	0	-23857	-6926,21	19137,32	570,3475	240,9291	89947,7801	-42805,961	89945,695	
		2000	9765,4	3073,69	19137,32	570,3475	240,9291	124113,319	2038,2341	2461,1519	
		4000	41226,3	13013,69	19137,32	570,3475	240,9291	139013,319	137293,771	139077,159	
6A2	1750	250	-1721,1	-2622,5	19241	570,3475	240,9291	10726,618	-2680,963	10520,918	
		1125	9344	2696,85	19241,03	570,3475	240,9291	33400,998	30724,870	30402,984	
		2000	-80105	-22910,25	19241,03	570,3475	240,9291	56642,378	58344,340	56642,113	
6A20	4000	0	6990	-7851,71	18735,96	570,3475	240,9291	35472,2683	35472,2683		
		2000	4446,16	2140,97	18735,96	570,3475	240,9291	80037,818	20468,572	20037,818	
		4000	6997,2	12148,3	18735,96	570,3475	240,9291	124601,778	131232,5151	124602,782	
6A21	4000	0	7078	-1806,21	19013,09	570,3475	240,9291	34906,4031	2761,064	34906,403	
		2000	4074,36	2195,79	19013,09	570,3475	240,9291	79471,3321	97263,994	79471,332	
		4000	12307,2	12193,79	19013,09	570,3475	240,9291	124036,872	231330,934	124036,872	
6A22	4000	0	12645	-6376,71	20091,99	570,3475	240,9291	41588,9911	3912,072	41588,991	
		2000	4769,23	3634,4	20091,99	570,3475	240,9291	86153,9231	93480,015	86153,931	
		4000	12341	13624,3	20091,99	570,3475	240,9291	130718,881	249144,944	130718,881	
6A23	3600	150	6015	-5987,8	24428,27	570,3475	240,9291	51430,363	5167,339	51430,363	
		1450	17765	-550,47	24428,27	570,3475	240,9291	92163,005	103809,778	92160,005	
		2750	18945,3	1562,94	24428,27	570,3475	240,9291	122259,626	176396,309	122259,626	
6A24	3600	150	6829	-3980,6	24780,96	570,3475	240,9291	51227,117	3644,188	51227,117	
		1450	17445	-528,14	24780,96	570,3475	240,9291	91959,567	102177,678	91959,567	
		2750	20029	1584,96	24780,96	570,3475	240,9291	123036,168	182274,239	123036,168	
6A25	1750	250	-6013,5	-9483,89	30706,91	570,3475	240,9291	91611,397	55996,920	55996,920	
		1125	21349	-6019,01	30706,91	570,3475	240,9291	112666,032	78051,816	77051,896	
		2000	33652	-3061,98	30706,91	570,3475	240,9291	133249,331	96635,144	96635,144	
6A26	1750	0	22101,1	12779,71	33214,37	570,3475	240,9291	211852,960	123581,693	211852,960	
		875	42105,3	14093,71	33214,37	570,3475	240,9291	230672,541	147739,112	220672,541	
		1750	60933,6	17603,46	33214,37	570,3475	240,9291	252435,408	151778,246	252485,408	
6A27	3000	0	19668,2	1794,32	17881,17	570,3475	240,9291	166911,462	97931,833	97931,833	
		1000	36169,9	6794,32	17881,17	570,3475	240,9291	189253,938	120234,303	120234,302	
		2000	43011,2	9994,32	17881,17	570,3475	240,9291	204291,393	135271,763	135271,763	
6A28	3000	0	15235	731,91	17221,99	570,3475	240,9291	160839,606	80701,373	80701,373	
		1000	31480,3	5731,5	17221,99	570,3475	240,9291	183172,065	102983,832	102983,832	
		2000	43281,5	8031,5	17221,99	570,3475	240,9291	198209,521	118021,292	118021,292	
6A29	1750	0	28659,9	11300,96	-8435,42	570,3475	240,9291	206886,265	-1165093,598	206886,265	
		875	44620,3	13225,08	-8435,42	570,3475	240,9291	225706,146	-1279,018	225706,146	
		1750	58699,1	16142,72	-8435,42	570,3475	240,9291	247469,013	-21576,151	247469,013	
6A3	1750	250	-11542	-3967	19974,89	570,3475	240,9291	16011,076	-28834,429	16011,076	
		1125	-95077	-25706,25	18974,89	570,3475	240,9291	37887,144	-47123,358	37887,144	
		2000	-77036	-21936,62	18974,89	570,3475	240,9291	60027,274	-62986,028	60027,174	
6A30	1750	250	-50482	-6388,21	32270,54	570,3475	240,9291	102895,357	72722,402	55720,402	
		1125	-35263	-6923,76	32270,54	570,3475	240,9291	126413,112	94240,181	91040,181	
		2000	-20933	2966,93	32270,54	570,3475	240,9291	136459,213	107286,281	107286,281	
6A31	2750	0	71,84	372,16	30921,03	570,3475	240,9291	108851,145	133904,528	108851,145	
		1375	29986,8	6155,44	30921,03	570,3475	240,9291	142115,355	167168,736	142115,355	
		2750	60149,4	9319,04	30921,03	570,3475	240,9291	177736,838	202810,226	177736,838	
6A32	2750	0	25057,1	11046,45	31717,07	570,3475	240,9291	142724,225	171130,974	142724,225	
		1375	53249,7	15773,06	31717,07	570,3475	240,9291	177268,790	205685,540	177268,790	
		2750	84019,7	22140,25	31717,07	570,3475	240,9291	216597,592	244994,642	216597,592	
6A33	2750	0	89065,4	29530,52	19341,2	570,3475	240,9291	229840,432	203776,578	203776,578	
		1375	107089	34216,82	19341,2	570,3475	240,9291	253752,699	230170,794	230170,794	
		2750	128999	40634,07	19341,3	570,3475	240,9291	282919,462	259337,538	259337,538	
6A34	2750	0	116806	37109,29	18738,04	570,3475	240,9291	268426,199	240511,022	240511,022	
		1375	135829	41836,16	18738,04	570,3475	240,9291	290828,436	264723,260	264723,260	
		2750	156740	48283,34	18738,04	570,3475	240,9291	320005,179	293890,002	293890,002	
6A35	2750	0	106227	33170,94	19771,31	570,3475	240,9291	251182,456	229407,014	229407,014	
		1375	124503	37897,31	19771,31	570,3475	240,9291	275594,683	253819,241	253819,241	
		2750	146161	44264,49	19771,31	570,3475	240,9291	304761,426	282985,994	282985,994	



6B17	775	225	-39125	-5680,3	-291,75	127,1396	127,1396	-47054,963	-50556,313	-47054,963
		612,5	-34319	-5083,63	-291,75	127,1396	127,1396	-41583,150	-45328,500	-41583,150
		1000	-28853	-4702,25	-291,75	127,1396	127,1396	-35023,475	-38768,025	-35023,475
6B18	775	225	-39778	-5703,44	-266,41	127,1396	127,1396	-47039,227	-51470,240	-47039,227
		612,5	-34973	-5377,77	-266,41	127,1396	127,1396	-40368,015	-46006,937	-40368,015
		1000	-28508	-4596,72	-266,41	127,1396	127,1396	-35802,224	-39447,251	-35802,224
6B19	3775	0	-27020	-4940,37	1400,53	127,1396	127,1396	-35610,584	-27738,400	-27738,400
		1887,5	1212,4	-271,62	1400,53	127,1396	127,1396	990,969	6873,153	990,969
		3775	28129,1	3696,34	1400,53	127,1396	127,1396	33416,754	29298,472	33416,754
6B2	4200	150	-17565	-5527,3	-74,55	127,1396	127,1396	-24267,947	-24561,857	-24267,947
		2250	-1275,6	-477,1	-74,55	127,1396	127,1396	1840,587	-2153,647	1840,587
		4350	15013,4	4572,7	-74,55	127,1396	127,1396	20586,283	20213,673	20373,673
6B20	2150	125	-13216	-5023,9	-1224,05	127,1396	127,1396	-19781,958	-34212,916	-19781,958
		1200	11633,3	2044,15	-1224,05	127,1396	127,1396	14763,431	-20177,577	14763,431
		2275	30197,5	6144,80	-1224,05	127,1396	127,1396	35154,478	3612,486	3612,486
6B21	2150	225	-26079	-4200,83	9409,61	127,1396	127,1396	-25694,996	7161,767	-25694,996
		1300	-3342,1	-121,96	9409,61	127,1396	127,1396	-4788,562	31067,794	-4788,562
		2375	16603	7251,96	9409,61	127,1396	127,1396	25387,927	60224,289	25387,927
6B22	4050	225	-37071	-9759,6	-1081,27	127,1396	127,1396	-49172,235	-53713,584	-49172,235
		2250	3537,74	1110,7	-1081,27	127,1396	127,1396	4058,337	359,003	359,003
		4075	44145,6	11981	-1081,27	127,1396	127,1396	50432,920	54391,586	54391,586
6B23	4050	225	-51360	-11827,1	248,19	127,1396	127,1396	-66409,[illegible]	-65387,238	-65387,238
		2250	-2955	-1016,6	248,19	127,1396	127,1396	-4170,432	-3140,614	-3140,614
		4275	45449,6	9813,5	248,19	127,1396	127,1396	52065,202	54090,021	52065,202
6B24	3025	0	5518,21	219,72	-1456,09	127,1396	127,1396	6406,415	287,837	287,837
		1012,5	[illegible]	6940,36	-1456,09	127,1396	127,1396	42561,29	36445,815	36445,815
		2025	54722,8	10690,55	-1456,09	127,1396	127,1396	68642,049	62526,471	62526,471
6B25	2025	225	-60298	-11577,74	-1570,51	127,1396	127,1396	-75469,223	-82065,365	-75469,223
		1237,5	-29161	-3875,52	-1570,51	127,1396	127,1396	-49388,577	-55984,719	-49388,577
		2250	-11393	-707,44	-1570,51	127,1396	127,1396	-13230,599	-19826,741	-13230,599
6B26	4025	200	-51332	-13092,93	-277,8	127,1396	127,1396	-67635,677	-68802,437	-67635,677
		2262,5	-3991,1	-2162,47	-277,8	127,1396	127,1396	-5411,249	-6578,009	-5411,249
		4225	45674,4	8617,99	-277,8	127,1396	127,1396	56377,072	55210,292	55210,292
6B27	4025	250	-50673	-13146,97	-408,55	127,1396	127,1396	-69110,590	-70826,490	-69110,590
		2262,5	-4341,7	-2210,51	-408,55	127,1396	127,1396	-6086,152	-7802,062	-6086,152
		4275	42723,8	8563,95	-408,55	127,1396	127,1396	54902,149	53186,238	53186,238
6B28	4050	225	-51582	-11375,17	-1622,58	127,1396	127,1396	-66105,470	-72920,206	-66105,470
		2250	-3172,9	-504,08	-1622,58	127,1396	127,1396	-3866,835	-10681,671	-3866,835
		4275	41226,8	10365,44	-1622,58	127,1396	127,1396	58371,800	51556,964	51556,964
6B29	4050	225	-50080	-11977,29	223,85	127,1396	127,1396	-65160,733	-64220,163	-64220,163
		2250	-1675,6	-1106,99	223,85	127,1396	127,1396	-2921,709	-1981,539	-1981,539
		4275	46729	9763,31	223,85	127,1396	127,1396	59316,926	60257,096	59316,926
6B3	2100	150	4099,27	361,25	10888,44	127,1396	127,1396	1522,546	91254,994	1522,546
		1200	11228,5	2133,12	10888,44	127,1396	127,1396	14554,670	60286,113	14554,670
		2250	19606,5	4161,15	10888,44	127,1396	127,1396	24328,416	70059,864	24328,416
6B30	4050	225	-39711	10148,9	-1717,39	127,1396	127,1396	-52458,032	-59671,070	-52458,032
		2250	797,21	721,4	-1717,39	127,1396	127,1396	1394,541	-5618,498	1394,541
		4275	41455,6	11591,7	-1717,39	127,1396	127,1396	55647,113	48434,075	48434,075
6B31	4550	225	-43728	-11832,35	716,32	127,1396	127,1396	-58337,253	-55329,309	-55329,309
		2500	2860,65	876,76	716,32	127,1396	127,1396	3714,281	6722,225	3714,281
		4775	48975,3	13544,06	716,32	127,1396	127,1396	65645,276	68653,220	65645,276
6B4	2100	150	3753,68	1597,39	14033,17	127,1396	127,1396	5618,519	64557,833	5618,519
		1200	7454,88	1597,39	14033,17	127,1396	127,1396	9514,754	68454,068	9514,754
		2250	11155,1	1597,39	14033,17	127,1396	127,1396	13410,989	72350,303	13410,989
6B5	2100	150	11157,7	3536,81	13640,49	127,1396	127,1396	13429,236	95719,394	13429,236
		1200	14868,4	3536,81	13640,49	127,1396	127,1396	19325,471	97615,529	19325,471
		2250	18579,1	3536,81	13640,49	127,1396	127,1396	23221,706	101511,764	23221,706
6B6	2100	150	5773,1	622,26	11504,71	127,1396	127,1396	6720,378	55040,160	6720,378
		1200	12607,3	2294,13	11504,71	127,1396	127,1396	15751,502	64071,284	15751,502
		2250	19827,5	4422,26	11504,71	127,1396	127,1396	25525,248	73845,030	25525,248
6B7	775	225	-37805	-4446,9	267,06	127,1396	127,1396	-44324,991	-43263,329	-43263,329
		612,5	-31307	-4061,24	267,06	127,1396	127,1396	-37346,726	-36225,074	-36225,074
		1000	-24549	-3280,18	267,06	127,1396	127,1396	-29220,566	-28098,914	-28098,914
6B8	3275	225	-41619	-6253,07	-2621	127,1396	127,1396	-50265,621	-61270,821	-50265,621
		1862,5	-10793	-2144,47	-2621	127,1396	127,1396	-13584,438	-24592,638	-13584,438
		3500	23059,1	3622,65	-2621	127,1396	127,1396	28079,930	17071,730	17071,730
6B9	2025	0	7011,87	-162,62	-63,33	127,1396	127,1396	7191,713	6925,727	6925,727
		1012,5	28131,9	3546,12	-63,33	127,1396	127,1396	33264,000	32998,014	32998,014
		2025	45978,7	5399,1	-63,33	127,1396	127,1396	53946,701	53680,715	53680,715
6BK7	850	150	-8067,1	868	-494,77	244,1098	0	243730,519	-9637,037	243730,519
		575	-6565,1	868	-494,77	244,1098	0	245307,567	-8059,989	245307,567
		1000	-5063,2	868	-494,77	244,1098	0	246884,614	-6482,942	246884,614
6BK10	775	0	10973,8	519,93	-863,76	244,1098	0	267676,226	8440,572	8440,572
		387,5	12343,2	519,93	-863,76	244,1098	0	289114,117	9878,463	9878,463
		775	13712,6	519,93	-863,76	244,1098	0	290552,019	11316,365	11316,365



70Y10	4050	250	-12470	4,56	-114,01	141,7527	74,27159	795,4827	-13774,010	795,482
		1575	-3669,2	4,56	-114,01	141,7527	74,27159	6033,277	-9810,983	6033,277
		3300	6942,7	4,56	-114,01	141,7527	74,27159	11912,102	-2061,160	11912,102
70Y16	4060	250	-11491	-14,93	-1265,52	141,7527	74,27159	753,437	-11081,900	753,437
		2175	-36978,3	-14,93	-1265,52	141,7527	74,27159	6013,262	-8495,082	6013,262
		4200	24811,3	-14,93	-1265,52	141,7527	74,27159	11072,087	-1148,263	11072,087
70Y17	4275	250	-20093	2303,06	-1265,52	141,7527	74,27159	14930,901	-25627,672	14930,901
		1962,5	16992,7	1780,66	-520,02	141,7527	74,27159	9761,516	-13548,830	9761,516
		3900	37264	1807,66	-552,02	141,7527	74,27159	19778,497	-3291,672	19778,497
70Y24	2275	0	16817,5	1393,65	-34,28	141,7527	74,27159	40680,900	12097,120	12097,120
		1137,5	26150,5	1393,65	-34,28	141,7527	74,27159	54911,612	26311,962	26311,962
		2275	37586	1393,65	-34,28	141,7527	74,27159	68964,829	40304,179	40304,179
70Y29	4275	0	-15067,5	-1740,66	-50,76	141,7527	74,27159	3826,812	-27268,492	3826,812
		2137,5	10193,5	1923,9	-50,76	141,7527	74,27159	27641,922	11448,620	11448,621
		4275	44968,4	5334,3	-50,76	141,7527	74,27159	48201,519	44858,412	44858,412
70Y12	3275	0	5240,75	-1206,6	-552,63	141,7527	74,27159	21783,065	-7849,226	2049,287
		1637,5	7101,45	-0,3661	-552,63	141,7527	74,27159	25494,417	6100,674	6100,674
		3275	10963,4	-0,3661	-552,63	141,7527	74,27159	29205,768	19950,921	19950,921
70Y20	4275	0	3892,2	1765,57	-970,3	141,7527	74,27159	7306,200	-3792,966	3342,277
		2137,5	9962,96	2042,09	-40,9	141,7527	74,27159	15301,530	13192,359	13192,359
		4275	16033,7	2319,4	-39,5	141,7527	74,27159	23296,860	34401,949	34401,949
70Y31	3275	0	1697,5	1706,1	1,4	141,7527	74,27159	11772,000	7210,529	7210,529
		1137,5	7101,45	1706,1	1,4	141,7527	74,27159	18966,930	20300,010	20300,010
		2275	12505,4	1706,1	1,4	141,7527	74,27159	26160,860	40017,311	40017,311
70Y22	2275	0	1779,2	456,71	141,7527	74,27159	13170,000	1335,141	1335,141	
		1362,5	7929	1929,23	456,71	141,7527	74,27159	10057,500	13150,907	10057,166
		2275	14079,2	1929,23	456,71	141,7527	74,27159	26945,000	26964,673	26945,000
70Y25	2250	0	8001,24	-207,16	-3748,47	141,7527	74,27159	36096,004	4081,765	36096,004
		1125	5001,6	-427,16	-3748,47	141,7527	74,27159	46019,004	4081,466	4081,466
		2250	10431,6	-427,16	-3748,47	141,7527	74,27159	57747,004	15769,478	15769,478
70Y34	2500	0	1405,3	-112,01	-504,9	141,7527	74,27159	32007,000	24147,897	32027,056
		1250	11004	-112,01	-504,9	141,7527	74,27159	39264,900	9189,972	9189,972
		2500	20602	-112,01	-504,9	141,7527	74,27159	46501,800	23427,853	23427,853
70Y26	2250	0	3577,6	-1350,25	-7481,25	141,7527	74,27159	56640,000	8159,597	56646,282
		1125	6977,6	-694,09	-7481,25	141,7527	74,27159	71194,500	13482,394	13482,394
		2250	20602,4	912,06	-7481,25	141,7527	74,27159	85391,821	31482,567	31482,567
70Y28	2500	0	1713	1286,1	-3600,51	141,7527	74,27159	9993,000	2539,470	9993,028
		1125	4066	291,2	-3600,51	141,7527	74,27159	18765,150	14769,959	18765,553
		2250	8019	1690,59	-2090,51	141,7527	74,27159	27538,049	27994,450	27538,063
70Y27	2500	0	1154	-2574,59	-2524,62	141,7527	74,27159	9203,341	-3491,529	9308,347
		1250	4713	-421,76	-2524,62	141,7527	74,27159	19060,650	10461,117	19060,658
		2500	9273	1731,26	-2524,62	141,7527	74,27159	28913,849	24408,723	30813,049
70Y32	2250	0	2217	4401,35	-7673,74	141,7527	74,27159	54857,308	13610,035	54857,308
		1125	5004,5	6013,53	-7673,74	141,7527	74,27159	69405,279	29930,936	10932,936
		2250	11113,5	8259,47	-7673,74	141,7527	74,27159	87002,461	29130,119	29130,119
70Y29	2500	0	1279,5	217,32	-596,64	141,7527	74,27159	21423,702	8401,207	21423,092
		1250	4078	-311,02	-596,64	141,7527	74,27159	34460,902	8536,668	8536,668
		2500	8857	-211,53	-596,64	141,7527	74,27159	47498,802	21714,543	21714,543
70Y33	4750	250	-0858	28,25	4027,68	141,7527	74,27159	5164,204	9715,661	5164,204
		2612,5	11261,3	20,25	4027,68	141,7527	74,27159	11070,401	11621,858	11070,401
		5000	4963,14	38,93	4027,68	141,7527	74,27159	16976,599	21528,056	16976,599
70Y30	2250	0	10048,2	841,77	2621,16	141,7527	74,27159	36224,354	2286,958	36224,354
		1125	1927,2	-1497	-2621,16	141,7527	74,27159	45137,661	4736,298	4736,298
		2250	38588,2	-7441,1	-2621,16	141,7527	74,27159	54050,967	16424,310	16474,310
70Y31	2500	0	6063,1	903,33	-776,04	141,7527	74,27159	16838,970	-1044,762	16822,978
		1250	6962,11	-900,33	-776,04	141,7527	74,27159	29564,200	2626,551	2626,551
		2500	19169,4	-902,53	-776,04	141,7527	74,27159	42795,603	10917,864	10917,264
70Y32	2500	0	-0,8735	-1082,42	1601,61	141,7527	74,27159	30940,217	-12401,855	-5290,914
		1250	-14194	-1702,43	1601,61	141,7527	74,27159	7641,099	-9250,511	7641,099
		2500	-1552,8	-1002,43	1601,61	141,7527	74,27159	20078,411	3480,803	3980,203
70Y33	4500	0	-15399	-3815,33	-805,79	141,7527	74,27159	-12454,065	-21972,801	-12454,065
		2059	4776,68	1340,92	-805,79	141,7527	74,27159	19544,797	3026,562	3026,562
		4500	27453,7	11492,17	-803,79	141,7527	74,27159	54543,649	39025,414	39025,414
70Y24	4500	0	-16146	-6867,21	-784	141,7527	74,27159	-15241,859	-31635,925	-15241,908
		2250	5031,31	1280,44	-784	141,7527	74,27159	19707,056	5642,930	5342,908
		4500	26207,3	11444,69	-784	141,7527	74,27159	54755,912	30241,800	30241,800
70Y35	2500	0	-3614	-1106,17	987,06	141,7527	74,27159	-9610,840	-30762,562	-9610,840
		1250	-17939	-1106,17	987,06	141,7527	74,27159	3620,470	-17532,249	3620,470
		2500	-32392	-1106,17	987,06	141,7527	74,27159	16851,783	-4300,937	16851,783
70Y36	2500	0	2813,4	-868,14	159,32	141,7527	74,27159	19731,765	-3017,462	19731,765
		1250	9700,85	-868,14	159,32	141,7527	74,27159	52993,067	10013,840	10013,840
		2500	22588,1	-868,14	159,32	141,7527	74,27159	86194,329	23245,152	23245,152
70Y37	2250	250	-29918	473,17	-2970,43	141,7527	74,27159	-4732,470	-43450,911	-4732,477
		1375	-18844	473,17	-2970,43	141,7527	74,27159	6955,540	-21760,899	6955,542
		2500	-9255	473,17	-2970,43	141,7527	74,27159	16918,792	-21099,649	16918,792

6CY11	4775	0	-16094	-413,16	-3591,73	108,1772	74,27159	-11834,109	-41352,448	-11834,109	
		3307,5	26195,96	-413,16	-3591,73	108,1772	74,27159	95939,289	-21169,656	5529,284	
		4772	23031,8	-413,16	-3591,73	108,1772	74,27159	29913,682	-736,652	29913,682	
6CY12	4750	0	-4894,3	928,29	7085,9	108,1772	74,27159	2076,225	28152,956	2076,225	
		2372	11011,19	928,29	7085,9	108,1772	74,27159	7954,628	30068,134	7954,628	
		4750	66596,66	928,29	7085,9	108,1772	74,27159	19839,903	37843,409	19839,903	
6CY13	780	0	-45266	549,17	5919,37	108,1772	74,27159	41304,390	71729,676	41729,676	
		390	46149,31	549,12	5910,37	108,1772	74,27159	80482,763	72057,353	80057,353	
		780	47033	549,12	5919,37	108,1772	74,27159	79866,240	72905,028	72905,028	
6CY14	9000	0	-28442	-2,76	-8,2	108,1772	74,27159	-29628,385	-29901,029	-31626,385	
		3600	16,69	2,76	8,2	108,1772	74,27159	4332,038	-19,914	425,038	
		9000	28425,4	-2,761	-8,2	108,1772	74,27159	34134,655	29961,311	29961,311	
6CY15	750	150	-147005	-411,92	-5999,93	108,1772	74,27159	16225,565	-73680,337	16225,565	
		525	-46119	-411,92	-5999,93	108,1772	74,27159	-9304,596	-22381,169	-9704,049	
		1000	-812357	-411,92	-5999,93	108,1772	74,27159	-80777,215	-71486,457	-80377,215	
6CY2	1414,21	0	3958,8	742,17	9525,34	108,1772	74,27159	58454,178	42402,497	24474,113	
		707,11	41408,08	742,17	9525,34	108,1772	74,27159	26173,695	47001,734	26173,695	
		1414,21	76864,69	742,17	9525,34	108,1772	74,27159	67920,843	46970,991	279,2643	
6CY3	775	225	-13850	-747,53	9605,11	108,1772	74,27159	20745,435	-51457,617	20745,435	
		612,5	15057	747,53	-9605,12	108,1772	74,27159	21707,033	-56499,019	21707,033	
		1000	-14134	-747,53	9605,11	108,1772	74,27159	33869,78	-55526,422	2669,678	
6CY4	775	0	14041	774,05	9736,25	108,1772	74,27159	58454,178	46853,095	24638,555	
		387,5	14954,4	774,05	9736,25	108,1772	74,27159	54797,153	47491,691	54797,153	
		775	15867,4	774,05	9736,25	108,1772	74,27159	55755,756	48452,293	55755,756	
6CY5	1414,21	0	24,05	774,05	9736,25	108,1772	74,27159	24564,598	48452,475	24491,398	
		707,11	4149,07	774,05	9736,25	108,1772	74,27159	26140,644	44054,722	26140,644	
		1414,21	8274,11	774,05	9736,25	108,1772	74,27159	27689,82	47803,936	27689,833	
6CY6	775	0	1231,56	-1256,61	-16644,86	108,1772	74,27159	39031,245	-89417,715	39031,245	
		387,5	9634,51	-1256,61	-16644,86	108,1772	74,27159	29999,84	-48196,117	39999,842	
		775	17977,46	-1256,61	-16644,86	108,1772	74,27159	40948,440	-87240,520	40948,440	
6CY7	6500	325	-26853	1,85	27,74	108,1772	74,27159	-23454,854	-37871,644	-22454,854	
		2762	-1425	1,85	27,54	108,1772	74,27159	4905,846	89,856	89,856	
		6175	-28003,8	1,85	27,04	108,1772	74,27159	32446,119	28050,209	28050,209	
6CY8	775	225	8843,5	1300,34	16964,03	108,1772	74,27159	35610,251	64381,149	35610,251	
		612,5	24078,5	1300,34	16964,03	108,1772	74,27159	36668,848	64539,747	36668,848	
		1000	39313,5	1300,34	16964,03	108,1772	74,27159	37727,446	70498,344	37727,446	
6CY9	4750	250	-6886,6	-507,43	-7119,52	108,1772	74,27159	-1308,021	-13745,779	1309,021	
		2625	-6881,1	-507,43	-7119,52	108,1772	74,27159	4567,254	-21180,504	4567,254	
		5000	4715,58	-507,43	-7119,52	108,1772	74,27159	10442,529	-27615,229	10442,529	
6D1	1000	0	-2307,83	532,63	-690,18	95,12275	95,12275	-331,002	-3129,758	-331,002	
		500	1,13	532,63	-690,18	95,12275	95,12275	905,899	-1992,958	905,298	
		1000	2309,13	532,63	-690,18	95,12275	95,12275	2142,798	-857,598	2142,798	
6D10	1000	0	1422,69	493,98	-772,89	95,12275	95,12275	2011,853	-1334,286	2011,853	
		500	3900,07	493,98	-772,89	95,12275	95,12275	3248,753	2,615	2,615	
		1000	6377,47	493,98	-772,89	95,12275	95,12275	4485,653	1239,515	1239,515	
6D11	2500	0	977,44	605,76	645,33	95,12275	95,12275	927,3601	3805,346	927,3601	
		1250	3022,41	605,76	641,33	95,12275	95,12275	4019,610	6721,396	4019,610	
		2500	6162,49	605,76	641,33	95,12275	95,12275	7111,860	9813,046	7111,860	
6D12	2500	0	-1489,6	403,47	-2353,93	95,12275	95,12275	-1140,636	-11027,142	-1140,636	
		1250	1495,21	403,47	-2353,93	95,12275	95,12275	1951,614	-7934,892	1951,614	
		2500	4400,01	403,47	-2353,93	95,12275	95,12275	5043,864	-4842,642	5043,864	
6D13	2500	0	-1422,2	201,01	-2701,13	95,12275	95,12275	-1597,229	-12944,453	-1597,229	
		1250	1822,79	201,01	-2701,13	95,12275	95,12275	1459,022	-9402,303	1459,022	
		2500	5067,78	201,01	-2701,13	95,12275	95,12275	4087,272	-5719,931	4087,272	
6D14	2500	0	466,69	647,89	658,51	95,12275	95,12275	1170,309	4062,051	1170,309	
		1250	3411,09	647,89	658,51	95,12275	95,12275	4362,559	7154,301	4362,559	
		2500	6355,69	647,89	658,51	95,12275	95,12275	7554,809	10246,551	7554,809	
6D15	2000	0	147,57	98,21	-1190,6	95,12275	95,12275	358,069	-4743,451	358,069	
		1000	2503,57	98,21	-1190,6	95,12275	95,12275	2731,669	-2268,651	2731,669	
		2000	4859,56	98,21	-1190,6	95,12275	95,12275	5105,269	205,139	205,139	
6D16	2000	0	-94,94	-127,96	-1552,27	95,12275	95,12275	-334,045	-6753,379	-334,045	
		1000	2261,06	-127,96	-1552,27	95,12275	95,12275	2289,755	-4279,779	2289,755	
		2000	4617,06	-127,96	-1552,27	95,12275	95,12275	4713,555	-1806,579	4713,555	
6D17	3000	0	-2421,5	355,19	-2265,66	95,12275	95,12275	-2171,726	-11687,498	-2171,726	
		1500	1110,5	355,19	-2265,66	95,12275	95,12275	1538,975	-7976,798	1538,975	
		3000	4644,5	355,19	-2265,66	95,12275	95,12275	5249,675	-4266,098	5249,675	
6D18	3000	0	-3484,7	393,65	-2266,93	95,12275	95,12275	-2197,745	-11716,551	-2197,745	
		1500	1047,26	393,65	-2266,93	95,12275	95,12275	1512,956	-8005,151	1512,956	
		3000	4581,26	393,65	-2266,93	95,12275	95,12275	5223,656	-4297,401	5223,656	
6D19	3250	1257	-22295	-4084,61	-982,34	95,12275	95,12275	-27645,891	-31771,719	-27645,891	
		1250	-638,07	-186,4	-982,34	95,12275	95,12275	-865,694	-4991,503	-562,694	
		2375	17649,9	1747,43	-982,84	95,12275	95,12275	16367,261	16241,403	16241,453	
6D2	4500	0	-6386,7	-335,37	-195,41	95,12275	95,12275	-1036,195	-7878,917	-7038,195	
		2250	-1000,7	-335,37	-195,41	95,12275	95,12275	-1402,145	2312,867	-1402,145	
		4500	4215,28	-335,37	-195,41	95,12275	95,12275	4073,906	3053,184	4053,184	

7CY44	2450	150	-906,09	69,09	-966,54	141,7527	74,27159	4963,467	-5872,102	6591,402	
		1325	-172,1	69,09	-3960,54	141,7527	74,27159	7133,192	-30443,203	7133,192	
		2500	-3406,9	69,09	-906,54	141,7527	74,27159	11697,16	-12573,419	11697,16	
7CY29	2350	0	31699,3	7201,37	7201,37	141,7527	74,27159	534884,993	534884,993	41668,276	
		1125	4894,2	6019,82	1000,82	141,7527	74,27159	31017,882	36113,557	31114,457	
		2250	5944,1	11964,41	5963,41	141,7527	74,27159	59311,048	95424,605	59312,048	
7CY30	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY31	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY32	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY33	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY34	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY35	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY36	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY37	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY38	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY39	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY40	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY41	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY42	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY43	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY44	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY45	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY46	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY47	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY48	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY49	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY50	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY51	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY52	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY53	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY54	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY55	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY56	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY57	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY58	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY59	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY60	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY61	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY62	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY63	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY64	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY65	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY66	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY67	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY68	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY69	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY70	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY71	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY72	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY73	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY74	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY75	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY76	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY77	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
7CY78	2350	0	5253,7	5253,7	-710,71	141,7527	74,27159	90389,224	90389,224	6389,032	
		1500	696,53	-3,06	-707,43	141,7527	74,27159	12414,729	12414,729	12414,729	
		3400	6736,23	0,06	-707,43	141,7527	74,27159	120000,899	120000,899	8945,632	
7CY79	2350	250	-14155	13444,96	5149,29	141,7527	74,27159	240211,402	240211,402	12611,402	
		1475	-1347,7	12096,61	3,29	141,7527	74,27159	215948,124	215948,124	12611,402	
		4000	-2611,4	11096,1	-1000,71	141,7527	74,27159	197956,003	197956,003	12611,402	
8B1	1000	250	-10787,1	4251,63	251,13	185,9637	127,1396	397480,478	115041,644	397480,478	
		500	-10726,1	-4284,57	201,13	185,9637	127,1396	397617,345	-114914,716	397617,345	
		800	-10714,1	-4233,07	241,13	185,9637	127,1396	397765,603	-114736,516	397765,603	
8B10	1250	0	41048,3	4011,43	-9591,83	185,9637	127,1396	88484,895	7021,739	7021,739	
		625	43965,4	42403,9	9541,85	185,9637	127,1396	91693,617	10230,959	10230,959	
		1250	47129,1	46440,93	-9591,83	185,9637	127,1396	95549,681	14081,025	14081,025	
8B11	700	150	-13412	-603,07	5395,47	185,9637	127,1396	59020,178	7962,993	7962,993	
		500	-11365	-413,57	5395,47	185,9637	127,1396	61160,939	10295,759	10295,759	
		800	-9770,1	-273,07	5395,47	185,9637	127,1396	62980,048	12110,868	12110,868	
8B12	700	150	-13705	-603,34	5736,87	185,9637	127,1396	58486,231	9261,032	9261,032	
		500	-11762	-350,84	5736,87	185,9637	127,1396	60916,103	11690,803	11690,803	
		800	-10164	-214,34	5736,87	185,9637	127,1396	62835,301	13407,902	13407,902	
8B13	2450	150	-7606,2	21048	-514,6	185,9637	127,1396	17238,457	-7931,445	15238,457	
		1325	-3071	21048	-514,6	185,9637	127,1396	19754,095	-3305,341	19724,095	
		2600	1018,14	21048	-514,6	185,9637	127,1396	24026,702	1124,747	1159,967	
8B14	2450	150	-7606,2	2017,04	-864,55	185,9637	127,1396	14983,716	-9755,949	14983,716	
		1325	-3521,1	2017,04	-864,55	185,9637	127,1396	19439,384	-5210,342	19439,384	
		2600	808,09	2017,04	-864,55	185,9637	127,1396	23974,991	-864,734	23974,991	

6C10	4700	0	-28247	-11475.69	109.09	108.1772	74.27159	-31944.917	-852670.140	-31944.016	
		2250	972.54	394.91	109.85	108.1772	74.27159	10344.284	1901.661	1902.661	
		4500	27076.2	12014.49	104.89	108.1772	74.27159	490114.504	42353.401	42353.401	
6C11	4200	0	-3112.2	-1266.33	109.83	108.1772	74.27159	-40161.385	-51324.058	-40161.360	
		2250	-4461.5	-1446.76	-103.28	108.1772	74.27159	-102.000	-11350.154	-170.000	
		4500	11239.8	10034.32	109.5	108.1772	74.27159	99799.720	22629.647	22629.647	
6C12	4250	0	-36894	-14978.24	53.23	108.1772	74.27159	-38700.397	-23567.600	-29100.538	
		1062.5	-5769	-3326.07	53.29	108.1772	74.27159	-4155.454	-11443.026	-4155.454	
		4500	15437.9	177.46	52.56	108.1772	74.27159	20152.702	2147.129	2147.129	
6C13	4200	0	1078.5	1095.33	54.21	108.1772	74.27159	14508.329	-17927.470	-14408.389	
		2100	9734.14	2200.74	52.5	108.1772	74.27159	17458.772	12990.604	12990.604	
		4275	9437.7	679.21	52.5	108.1772	74.27159	12778.687	41356.549	41356.549	
6C14	3000	0	-38656	15780.27	115.16	108.1772	74.27159	-36945.697	-2115.857	-38945.697	
		1500	-2216	1291.58	114.12	108.1772	74.27159	-2756.849	-4423.223	-2756.849	
		3000	13482	10894.15	114.12	108.1772	74.27159	42402.704	31269.963	31269.963	
6C15	4500	0	-17172	-5464.65	110.06	108.1772	74.27159	-20021.479	-30243.870	-20021.479	
		2250	7729.8	1631.81	-103.66	108.1772	74.27159	14200.094	311.374	311.374	
		4500	24600.3	11485.94	-103.66	108.1772	74.27159	45206.941	36656.424	36656.424	
6C16	4700	0	-38580	11977.25	108.53	108.1772	74.27159	-37078.370	-41908.461	-37031.370	
		2350	-8016	-1048.45	108.53	108.1772	74.27159	-8048.450	-1920.661	4049.430	
		4500	23802.1	11771.36	108.53	108.1772	74.27159	48028.821	38031.190	38031.190	
6C17	2250	0	-4074	-1264.1	108.42	108.1772	74.27159	-5576.628	21709.001	21639.001	
		1125	-2830.9	3013.5	108.42	108.1772	74.27159	-6384.119	49096.336	49096.336	
		2250	17098.1	12004.35	108.42	108.1772	74.27159	72256.748	61008.801	61008.801	
6C18	3750	0	-11229.16	-3852.52	108.1772	74.27159	-4596.256	59952.128	59966.778		
		1125	-3083.1	-2956.52	108.1772	74.27159	-3401.389	-43829.690	-34013.784		
		2250	14245	645.84	-2956.52	108.1772	74.27159	-5986.494	-30442.206	-5986.490	
6C19	4500	0	-13538.72	-13538.72	110.03	108.1772	74.27159	-38693.534	-42173.227	-38693.392	
		2250	-2081.72	-2081.72	110.03	108.1772	74.27159	7854.300	1.427	12856.306	
		4275	9723.09	9723.09	110.03	108.1772	74.27159	41246.015	21781.372	21781.373	
6C20	4500	0	-12547	-6398.68	103.68	108.1772	74.27159	-11032.221	-17126.600	-11032.221	
		2250	-2463.6	-2463.6	103.68	108.1772	74.27159	-9504.966	-460.647	4000.647	
		4275	9624.2	9624.2	103.68	108.1772	74.27159	36921.960	21127.960	21127.960	
6C21	4500	0	-11460.04	-3726.86	108.1772	74.27159	-39277.578	-42708.514	-39277.578		
		2250	414.96	-1770.34	108.1772	74.27159	702.230	706.714	702.230		
		4500	22899.94	-372.65	108.1772	74.27159	40620.047	37253.097	37253.097		
6C22	4500	0	11961.4	-462.25	108.1772	74.27159	-21911.915	-39548.672	-21911.915		
		2250	-86.4	-462.25	108.1772	74.27159	5067.828	831.128	831.128		
		4500	11998.6	-462.25	108.1772	74.27159	40047.605	-41310.928	40310.928		
6C23	4500	0	-8652.7	-1520.89	108.1772	74.27159	-21238.084	-74238.384	-71238.084		
		2250	1347.3	-1520.89	108.1772	74.27159	11039.966	309.467	309.467		
		4500	11347.2	-1520.89	108.1772	74.27159	47836.016	34415.317	34415.317		
6C24	3000	0	-12201.85	201.6	108.1772	74.27159	-36878.890	-41968.137	-36878.890		
		2250	-759.19	201.6	108.1772	74.27159	2813.725	2715.513	2813.725		
		5000	10803.82	201.6	108.1772	74.27159	42906.350	37417.107	37417.107		
6C3	4500	0	-10229	-976.68	108.1772	74.27159	-5093.004	-16672.386	-5093.004		
		2250	-4529.4	-506.81	108.1772	74.27159	-473.046	-11406.339	473.046		
		4500	331.56	909.89	108.1772	74.27159	6138.194	38.409	6039.096		
6C4	4500	0	1335.91	1374.97	2301.04	108.1772	74.27159	10152.762	10152.762		
		2250	-1560	-1560.97	2301.04	108.1772	74.27159	-15600.000	-15600.000		
		4500	3116.2	3116.2	2301.04	108.1772	74.27159	15718.915	15718.915		
6C5	4500	0	-2368.1	-1186.1	2301.04	108.1772	74.27159	-3077.404	-3077.404		
		2250	-2368.1	-810.53	-399.53	108.1772	74.27159	526.112	-4723.634	1265.112	
		4500	23242.2	11564.47	-399.53	108.1772	74.27159	43244.912	35026.167	35026.167	
6C6	2250	0	20530.3	10.62	-25.48	108.1772	74.27159	34778.142	21465.614	21465.614	
		1125	38513.5	9744.56	-25.48	108.1772	74.27159	69003.467	49513.929	49513.929	
		2250	40751.8	11909.63	-25.48	108.1772	74.27159	74757.453	61465.415	61465.415	
6C7	2250	0	-4501.6	-1318.84	3.52	108.1772	74.27159	-40274.065	-59443.603	-40274.065	
		1125	-3709.1	-2154.57	3.52	108.1772	74.27159	-34522.368	-47493.107	-34522.368	
		2250	-1910.2	566.56	3.52	108.1772	74.27159	-8095.065	-19465.803	-8095.065	
6C8	4500	0	-29601	-13966.99	362.31	108.1772	74.27159	-39153.829	-44234.289	-39153.829	
		2250	-3099.6	-2091.98	362.31	108.1772	74.27159	826.981	-4044.476	826.981	
		4500	22801.4	9783.63	360.81	108.1772	74.27159	40906.181	35735.922	35735.922	
6C9	4500	0	-30112	-13957.03	367.67	108.1772	74.27159	-39679.216	-44842.924	-39679.216	
		2250	-3910.5	-2082.09	367.37	108.1772	74.27159	300.584	-4663.124	300.584	
		4500	20290.5	9792.95	367.37	108.1772	74.27159	40330.284	35316.677	35316.677	
6C11	7000	0	-5859.7	1.62	20.22	108.1772	74.27159	-4432.171	-8557.457	-4432.171	
		3500	-13.14	1.63	20.22	108.1772	74.27159	4226.119	72.839	72.839	
		7000	9239.56	1.63	20.22	108.1772	74.27159	12884.410	8731.139	8731.139	
6C310	4275	0	-16191	-401.88	-5527.37	108.1772	74.27159	-11832.999	-41267.667	-11832.949	
		2137.5	9602.19	-401.88	-5527.37	108.1772	74.27159	8544.399	-20834.469	8544.399	
		4275	20055	-401.88	-5527.37	108.1772	74.27159	26913.797	-511.078	26913.797	

6D30	3975	0	-4117,43	-1203,49	3047,27	95,12275	95,12275	3813,716	3061,9367	3813,716
		1107,5	12012,5	4646,44	3947,27	95,12275	95,12275	16061,919	29060,483	16061,919
		2317	21917,9	2035,11	3047,27	95,12275	95,12275	31500,741	44901,875	31702,541
6D31	4500	0	-14038,4	-3527,41	956,21	95,12275	95,12275	-30907,601	-19298,119	-19298,119
		2250	1664,98	-44,43	956,21	95,12275	95,12275	235,099	1763,181	220,099
		4500	14922	2416,84	956,21	95,12275	95,12275	-1357,796	21995,481	21147,994
6D32	4500	0	-17418	-3827,41	1043	95,12275	95,12275	-22374,203	-21747,143	-21747,143
		2250	-661,46	-455,6	129,3	95,12275	95,12275	-1171,915	-605,8131	-605,813
		4500	14493,2	-495,28	129,3	95,12275	95,12275	12940,287	20388,447	19900,382
6D33	4875	0	-10043,8	-5066,96	1843,5	95,12275	95,12275	-10553,054	-2831,514	-2831,514
		2137,5	7024,16	2090,11	1843,5	95,12275	95,12275	9779,8044	11633,694	9779,8044
		4875	20174,5	7281,62	1843,5	95,12275	95,12275	21203,716	23061,256	20322,716
6D34	4200	125	-1,7587	-4725,54	1007,67	95,12275	95,12275	-15449,047	-7750,284	-7750,284
		2250	3079,83	-115	1940,06	95,12275	95,12275	3531,5041	5521,1179	5521,1041
		4725	16220,11	6496,34	1940,06	95,12275	95,12275	24907,994	27047,649	22907,599
6D35	4275	0	-5799,6	-66,62	1843,5	95,12275	95,12275	-6663,872	-6036,008	-6036,008
		2137,5	-305,08	-60,63	1843,5	95,12275	95,12275	-477,915	-659,4611	-477,915
		4837	4767,89	-66,63	1843,5	95,12275	95,12275	4554,223	4771,993	4771,993
6D36	4375	0	-5179	-61,45	1843,5	95,12275	95,12275	-7060,095	-6077,858	-6077,858
		2187,5	-364,1	-63,45	1843,5	95,12275	95,12275	-448,459	-916,417	-448,459
		4375	4799,4	-61,45	1843,5	95,12275	95,12275	4960,215	4801,021	4801,021
6D37	4050	125	-1,7587	-4725,54	1007,67	95,12275	95,12275	-15449,047	-7750,284	-7750,284
		2250	4000,68	1083,5	1940,06	95,12275	95,12275	5041,377	13143,727	5041,377
		4725	16468,9	6496,34	1940,06	95,12275	95,12275	26107,746	26107,746	26107,746
6D38	4875	0	-3133,12	-1207,19	956,21	95,12275	95,12275	-3813,716	-1974,517	-1974,517
		2137,5	6894,2	2024,07	1912,19	95,12275	95,12275	10017,54	12380,515	10017,215
		4837	22442,2	7590,09	1870,19	95,12275	95,12275	32061,047	33934,245	33061,047
6D39	4500	0	14922	-3666,96	1843,5	95,12275	95,12275	-20676,368	-20018,148	-20018,148
		2250	671,11	-247,03	1843,5	95,12275	95,12275	455,7	1074,158	455,7654
		4500	15593,2	5184,81	1843,5	95,12275	95,12275	21908,033	22206,48	21508,033
6D3	1000	0	-1957,8	-725,07	601,37	95,12275	95,12275	-2705,514	-259,779	-259,779
		500	-749,61	-725,07	601,37	95,12275	95,1227	1545,666	977,136	-1548,624
		1000	-2707,4	-725,07	601,37	95,12275	95,12275	211,4	2214,092	-311,724
6D40	4500	0	-15604	-5891,8	1940,1	95,12275	95,12275	-23270,01	-23816,269	-23816,269
		2250	-1776	-515,79	970,1	95,12275	95,12275	-3570,795	-2183,969	-2183,969
		4500	-17246	-4983,6	970,1	95,12275	95,12275	18961,512	18943,332	18561,512
6D31	4875	0	-9963,5	-3667,1	1094,14	95,12275	95,12275	-14069,27	-10073,910	-10073,910
		2437,5	-3054,1	-3054,1	1094,14	95,12275	95,12275	8794,779	13360,167	8794,779
		4875	-13017,6	-6470,97	1094,14	95,12275	95,12275	33447,561	30442,949	33447,561
6D4	1000	0	-1411,8	-864,38	266,67	95,12275	95,12275	-3470,401	-2330,454	-2330,454
		500	-1843,2	-864,38	266,67	95,12275	95,12275	-2213,588	-1093,554	-1093,554
		1000	-3255	-864,38	266,67	95,12275	95,12275	-976,668	-143,346	-976,668
6D5	4500	0	-3756,9	-1303,03	-130,47	95,12275	95,12275	-6908,969	-1496,943	-6908,969
		2250	-3759,4	-1303,03	-130,47	95,12275	95,12275	-1342,919	1196,093	-1342,919
		4500	-7515,9	-1303,03	-130,47	95,12275	95,12275	4223,132	3679,158	3679,158
6D6	1000	0	-1,995	493,98	-772,89	95,12275	95,12275	-461,945	-3708,096	-461,945
		500	-244,8	493,98	772,89	95,12275	95,12275	774,953	-2471,186	974,953
		1000	-492,9	493,98	-772,89	95,12275	95,12275	2011,853	-1234,286	2011,853
6D7	1000	0	-1207,2	553,63	-690,17	95,12275	95,12275	2142,798	151,956	2142,798
		500	-1884,3	553,63	-690,17	95,12275	95,12275	3379,648	430,942	480,942
		1000	-3864,2	553,63	-690,17	95,12275	95,12275	4816,398	1717,842	1717,842
6D8	1000	0	-4228,8	-725,07	601,37	95,12275	95,12275	-5258,824	-2733,576	-2733,576
		500	-3455,8	-725,07	601,37	95,12275	95,12275	-1402,144	1496,676	1496,676
		1000	-7683,6	-725,07	601,37	95,12275	95,12275	2454,324	-359,7701	-359,770
6D9	1000	0	-4417,8	-864,38	-266,67	95,12275	95,12275	-5924,382	-4004,254	-4004,254
		500	-3999,8	-864,38	266,67	95,12275	95,12275	-4687,388	-3567,854	-3567,854
		1000	-8421,8	-864,38	266,67	95,12275	95,12275	2400,466	-2330,454	-2330,454
7CY1	3675	0	2284	-2,7	-366,79	141,7527	74,27159	21404,600	1896,447	1896,447
		1837,5	7141,95	-2,7	-366,79	141,7527	74,27159	25521,902	5947,295	5947,295
		3275	10999,9	-2,7	-366,79	141,7527	74,27159	29576,351	9998,142	9998,142
7CY10	3850	150	-2648	140,02	-8066,79	141,7527	74,27159	12703,184	-36513,999	12703,124
		2075	1887,26	140,02	-8066,79	141,7527	74,27159	17465,249	-31751,874	17465,249
		4000	6422,56	140,02	-8066,79	141,7527	74,27159	22227,314	-26989,809	22227,314
7CY11	4350	0	-3069	10,37	239,83	141,7527	74,27159	5081,651	-4304,223	5531,651
		2175	-62,46	10,37	239,83	141,7527	74,27159	13938,465	952,592	952,592
		4350	4944,04	10,37	239,83	141,7527	74,27159	19095,280	6009,417	6009,417
7CY12	3850	150	-2834,2	68,15	-8355,79	141,7527	74,27159	12432,221	-37098,700	12433,221
		2075	1701,07	68,15	-8355,79	141,7527	74,27159	17194,286	-31236,637	17194,286
		4000	6236,37	68,15	-8355,79	141,7527	74,27159	21956,351	-26474,572	21956,351
7CY13	4750	0	5219,62	2422,23	-2269,75	141,7527	74,27159	21405,735	-477,937	21905,735
		2375	10915,1	3423,23	-2269,75	141,7527	74,27159	27381,010	5417,339	5417,339
		4750	16610,6	7423,23	-2269,75	141,7527	74,27159	33256,295	11292,614	11292,614
7CY14	4750	0	4903,04	3295,43	-2434,33	141,7527	74,27159	21039,115	-1615,151	21039,115
		2375	10498,5	3295,43	-2434,33	141,7527	74,27159	26914,390	4259,525	4259,525
		4750	16094	3295,43	-2434,33	141,7527	74,27159	32789,665	10134,800	10134,800

SB10	3700	0	30014	3360,2	-3015,78	185,9637	127,1396	7083040,242	41629,539	-20050,348
		2500	-3028,9	-551,3	2913,76	185,9637	127,1396	3217,666	-14461,629	3217,666
		3000	-4944,2	3258,1	-531,76	185,9637	127,1396	59923,503	2706,352	5706,352
SB16	4700	150	-31798	-3588,29	361,1294	185,9637	127,1396	1066,3221	-37340,355	-18690,322
		2700	-4007,5	-527,05	-2611,84	185,9637	127,1396	4269,725	-14482,228	4869,725
		4850	-19735,4	2071,29	-3611,84	185,9637	127,1396	37429,173	9777,749	5777,749
SB17	6700	150	28124	-1447,07	-2752,09	185,9637	127,1396	-1476,7807	-36704,148	-19776,022
		2500	-2960,7	-648,03	-2734,49	185,9637	127,1396	3993,615	13274,098	3993,615
		6600	16201,2	2170,98	-2734,49	185,9637	127,1396	34993,062	7705,958	7705,958
SB18	6700	0	-29560	-2546,52	-3017,69	185,9637	127,1396	-21101,778	-43309,823	-20180,773
		2400	-3252	1764,04	-3017,69	185,9637	127,1396	2506,152	14903,001	2506,152
		5004	13906,2	3049,48	-3017,69	185,9637	127,1396	26174,066	8145,917	4145,917
SB19	3900	150	-72805	2183,07	-11964,64	185,9637	127,1396	2878,709	29140,838	2878,709
		3125	-3011,47	-2387,7	-11964,64	185,9637	127,1396	10200,431	51914,719	10271,431
		4100	6670,35	-2387,72	-11964,64	185,9637	127,1396	17736,063	-44334,063	17736,063
SB2	100	250	137644	-410,72	-87,28	185,9637	127,1396	39764,2413	113917,698	39749,2413
		300	-107320	-491,43	787,28	185,9637	127,1396	399650,211	-112774,231	399650,211
		350	197209	-415,72	787,28	185,9637	127,1396	397779,641	115629,960	397702,541
SB21	3950	150	7837	-2043,09	-9036,42	185,9637	127,1396	-5368,437	-51815,146	-7067,437
		3125	-890,53	-2043,09	-9036,42	185,9637	127,1396	9291,868	-40899,313	959,1869
		4100	6099,22	-2043,09	-9036,42	185,9637	127,1396	17736,063	-36360,031	17736,063
SB31	7001	150	4010	-2911,14	1014,58	185,9637	127,1396	42905,1489	-21457,687	42905,040
		500	-4022	2711,3	-5111,64	185,9637	127,1396	45232,911	-29167,911	45232,911
		4250	-22609	-3622,87	-5111,64	185,9637	127,1396	47047,912	-33150,812	47047,912
SB32	706	150	21541	-2154,69	-5036,54	185,9637	127,1396	50789,979	-6440,048	50789,979
		500	-7287	-1893,19	-5036,54	185,9637	127,1396	52340,492	-5993,160	52340,492
		850	-17446	-1741,69	-5036,54	185,9637	127,1396	53378,354	-5993,268	53378,354
SB33	1250	0	24190,1	7987,49	911,37	185,9637	127,1396	117991,294	110908,224	110908,094
		625	4121	8201,87	911,37	185,9637	127,1396	117001,107	114117,455	114117,455
		1250	27257	8604,99	911,37	185,9637	127,1396	120651,401	111967,511	111967,511
SB34	1350	0	-21096	-420,31	-4088,28	185,9637	127,1396	15511,403	-8344,567	15511,403
		675	-1740	64,44	-4088,28	185,9637	127,1396	20092,408	1236,436	1236,436
		1350	3743	841,69	-4088,28	185,9637	127,1396	22544,948	6638,972	6638,972
SB35	1100	300	63142	-869,53	-5003,04	185,9637	127,1396	-49296,1	-110083,314	-49596,110
		550	51960	-5009,08	-5003,04	185,9637	127,1396	-44946,142	-110561,047	-44946,342
		1350	57949	-5448,78	-5003,04	185,9637	127,1396	-40775,0507	-101440,264	-40775,060
SB36	1100	150	3521	-3984,1	-3940,51	185,9637	127,1396	-25538,69	-91029,149	-25520,691
		300	5460	-3997,5	-3940,51	185,9637	127,1396	-28068,429	-91039,302	-28068,922
		1350	46196	-2736,19	-3940,51	185,9637	127,1396	-24717,651	-83568,119	-24717,651
SB37	1100	150	2609	-4024,01	-2950,48	185,9637	127,1396	-34113,891	-91131,454	-34113,891
		300	-69287	-3837,61	-2950,48	185,9637	127,1396	-29464,124	-89881,658	-29464,124
		1350	-2436	-2776,61	-2950,48	185,9637	127,1396	-20092,241	-84510,374	-20092,241
SB38	1100	250	20061	-6782,86	-3490,82	185,9637	127,1396	-49644,105	-111097,466	-49644,105
		500	-81130	-6695,86	-3490,82	185,9637	127,1396	-44994,338	-106447,698	-44994,338
		1350	-77705	-6534,86	-3490,82	185,9637	127,1396	-40623,055	-102176,416	-40623,055
SB39	1350	0	2139	-81,99	3004,26	185,9637	127,1396	16894,602	-214,232	16894,602
		675	13382	464,76	3004,26	185,9637	127,1396	31475,603	4366,751	4366,751	
		1350	41706	1741,01	3004,26	185,9637	127,1396	36923,189	9819,285	9819,285	
SB4	1250	0	42210,6	4437,52	-9195,47	185,9637	127,1396	90162,665	10364,002	10364,802
		625	45037,6	4671,3	-9195,47	185,9637	127,1396	94371,905	13574,043	13574,043
		1250	42301,2	5075,02	-9195,47	185,9637	127,1396	97221,949	17424,089	17424,089
SB40	1250	0	22394,4	869,03	-9765,04	185,9637	127,1396	116614,892	118452,014	118452,014
		625	4977,2	2934,43	-9765,04	185,9637	127,1396	119544,137	119661,248	119661,248
		1250	8524	3224,6	-9765,04	185,9637	127,1396	123536,139	123511,290	123511,290
SB41	100	250	119788	-3966,53	-11609,73	185,9637	127,1396	379168,976	-184867,957	379103,976
		300	123666	-5047,03	-11609,73	185,9637	127,1396	379252,175	-184119,768	379252,175
		350	123436	-5237,53	-11609,73	185,9637	127,1396	379611,767	-183860,177	379611,767
SB42	100	250	-101560	-4853,14	-9782,68	185,9637	127,1396	382183,710	-178023,622	382183,710
		300	-121340	-4870,64	-9782,68	185,9637	127,1396	382183,710	-178774,622	382183,710
		350	-121113	-4857,14	-9782,68	185,9637	127,1396	382443,291	-178515,042	382443,291
SB43	4250	0	7098,92	1550,24	57,61	185,9637	127,1396	21195,382	9302,696	9302,696
		2125	20786,9	3932,21	57,61	185,9637	127,1396	38055,393	26186,507	26186,507
		4250	35236,9	6664,09	57,61	185,9637	127,1396	56012,117	44040,231	44040,231
SB44	4250	0	7013,42	1732,86	73,27	185,9637	127,1396	21084,843	9281,045	9281,045
		2125	20001,2	3904,73	73,27	185,9637	127,1396	37447,044	26143,845	26143,845
		4250	35171,2	6651,61	71,25	185,9637	127,1396	56003,778	44000,580	44000,580
SB45	2350	150	-6466,4	-1939,53	-7235,26	185,9637	127,1396	13055,341	-39230,350	13055,341
		1325	439,62	-919,67	-7235,26	185,9637	127,1396	21365,997	-30924,695	21065,097
		2500	7644,26	258,2	-7231,26	185,9637	127,1396	30200,917	-22089,776	30200,917
SB46	2500	250	-25613	-5743,55	-4136,52	185,9637	127,1396	12334,884	-15590,784	-12794,884
		1500	-14423	-2130,05	4136,51	185,9637	127,1396	2150,345	-1065,555	2150,345
		3150	-5093,9	-1291,05	4136,52	185,9637	127,1396	17869,633	10673,733	10673,733
SB47	2500	0	20571,6	5705,27	1132,97	185,9637	127,1396	53841,706	39221,827	38221,827
		1250	35195,9	7673,27	1132,97	185,9637	127,1396	69601,082	49981,113	49981,113
		2500	46394,81	10090,77	1132,97	185,9637	127,1396	81066,302	64446,333	64446,333

BB38	2900	0	10308,3	1922,65	-2946,24	185,9637	127,1396	35816,787	2650,516	2650,516
		1250	21904,8	3797,65	-2946,24	185,9637	127,1396	47576,037	14617,506	14617,506
		2900	34093,7	6383,15	-2946,24	185,9637	127,1396	63041,267	29082,816	29082,816
BB39	2350	150	-1571,9	-9626,64	-9082,45	185,9637	127,1396	-504,4985	61393,215	-504,4985
		1225	-6113,6	-3946,59	-9082,45	185,9637	127,1396	11773,656	-49133,203	11773,656
		2300	4195,6	1191,14	-9082,45	185,9637	127,1396	25660,432	-35020,457	25660,432
BB4	1350	150	23849,6	1404,4	4439,44	185,9637	127,1396	64853,457	49736,269	49736,269
		825	20766,2	2160,65	4439,44	185,9637	127,1396	59836,002	30428,904	30428,904
		1500	31802,4	2727,4	4439,44	185,9637	127,1396	74467,005	45059,907	45059,907
BB40	2350	150	2993,4	5,36	-966,06	185,9637	127,1396	19211,897	4742,355	19211,897
		1225	7034,63	2063,11	-966,06	185,9637	127,1396	31476,279	7516,228	5016,328
		2350	11352,1	4423,89	-966,06	185,9637	127,1396	44762,058	18823,004	18823,004
BB41	2350	0	-7480,8	1464,11	150,06	185,9637	127,1396	9204,859	-5602,299	9204,859
		1175	1213,66	814,44	150,06	185,9637	127,1396	25058,371	4786,217	4886,217
		2750	14112,2	3083,19	150,06	185,9637	127,1396	36771,874	15604,730	10604,730
BB42	2350	150	3327,1	-483,31	-3189,76	185,9637	127,1396	17964,640	-17834,944	17964,640
		1225	6267,97	1656,44	-3189,76	185,9637	127,1396	30023,200	-5076,385	30023,200
		2000	16585,3	4012,19	-3189,76	185,9637	127,1396	43080,006	8230,415	8230,415
BB43	2350	150	-1438,8	5218,8	-5502,23	185,9637	127,1396	791,0471	-51360,360	791,0471
		1225	-479,2	3030,61	-5502,23	185,9637	127,1396	13049,629	49001,775	13049,629
		2500	5224,06	1183,84	-5502,23	185,9637	127,1396	26556,403	35695,002	26556,403
BB44	2500	0	12731,1	1708,66	-3123,67	185,9637	127,1396	37771,059	2021,996	2021,996
		1250	22026,1	3693,66	-3123,67	185,9637	127,1396	47531,129	11781,282	11781,282
		2500	32045	6191,16	-3123,67	185,9637	127,1396	61996,559	22246,712	22246,712
BB45	2500	0	8962,8	7032,77	1841,02	185,9637	127,1396	58561,445	45705,251	45705,251
		1250	23425,2	8907,77	1841,02	185,9637	127,1396	70330,894	57464,527	57464,527
		2500	36943,2	11495,27	1841,02	185,9637	127,1396	84783,916	71929,767	71929,767
BB46	2500	250	-5889,6	-10167,93	2220,97	185,9637	127,1396	-26822,366	48074,836	-26822,366
		1700	-1478,8	-7580,48	2220,97	185,9637	127,1396	-14357,636	21108,616	-14357,636
		2750	16377	-5705,48	2220,97	185,9637	127,1396	-2598,390	13050,319	-2598,390
BB47	2350	150	8009,6	-1771,09	-7404,3	185,9637	127,1396	11243,325	-41841,235	11243,325
		1225	-1096,8	-731,1	-7404,3	185,9637	127,1396	19552,657	-33132,002	19552,657
		2500	9322,08	446,66	-7404,3	185,9637	127,1396	28386,076	-24298,583	28386,076
BB5	1100	150	6424,8	3437,33	-3138,56	185,9637	127,1396	117965,221	57991,333	57991,333
		700	6772,4	3992,22	-3138,56	185,9637	127,1396	122136,304	62160,636	62160,636
		1250	7149,2	4601,11	-3138,56	185,9637	127,1396	126796,261	66813,393	66813,393
BB6	1100	150	6931,6	1302,71	-2854,92	185,9637	127,1396	112542,395	52759,811	52759,811
		700	6173,4	2863,71	-2854,92	185,9637	127,1396	116713,674	57931,094	57931,094
		1250	6040,8	4530,71	-2854,92	185,9637	127,1396	121363,451	62580,872	62580,872
BB7	1100	150	6159,9	3304,95	-2920,71	185,9637	127,1396	112485,030	53426,132	53426,132
		700	6267,6	3863,95	-2920,71	185,9637	127,1396	116656,312	57597,414	57597,414
		1250	6641,2	4552,85	-2920,71	185,9637	127,1396	121306,088	62247,182	62247,182
BB8	1100	150	7083,3	3535,11	-3342	185,9637	127,1396	117315,804	54487,491	54487,491
		700	6724,2	3894,11	-3342	185,9637	127,1396	121487,089	60658,773	60658,773
		1250	6665,7	4561,11	-3342	185,9637	127,1396	126156,867	65308,541	65308,541
BB9	1350	150	24227,5	1553,23	4656,55	185,9637	127,1396	65206,960	46637,724	46637,724
		825	20654,1	2309,42	4656,55	185,9637	127,1396	70659,495	52090,259	52090,259
		1500	32470,2	2676,23	4656,55	185,9637	127,1396	75240,498	56671,262	56671,262
BCY1	3000	0	25527,5	1,94	1,33	207,4355	74,27159	85435,124	26601,246	26601,246
		1100	29961,3	1,94	1,33	207,4355	74,27159	89142,824	30311,946	30311,946
		3000	33295,7	1,94	1,33	207,4355	74,27159	93536,514	34022,646	34022,646
BCY10	6700	150	-2089	-1104,84	-1642,78	207,4355	74,27159	8787,325	-11503,072	8787,325
		3500	-190,37	-1104,84	-1642,78	207,4355	74,27159	17074,555	-7215,842	17074,555
		6800	7696,26	-1043,84	-1642,78	207,4355	74,27159	29261,785	1071,389	1071,389
BCY11	6700	150	-7974,5	-202,86	-1150,76	207,4355	74,27159	3804,566	-13419,431	3804,566
		3500	-81,91	-202,86	-1150,76	207,4355	74,27159	17091,796	-5132,201	17091,796
		6850	7810,69	-202,86	-1150,76	207,4355	74,27159	29279,026	3155,030	3155,030
BCY12	6700	150	-7692,9	-195,2	-1008,71	207,4355	74,27159	9118,779	-13344,608	9118,779
		3500	199,63	-195,2	-1008,71	207,4355	74,27159	17406,009	-4557,378	17406,009
		6850	8092,23	-195,2	-1008,71	207,4355	74,27159	29693,239	3729,852	3729,852
BCY13	6700	150	-8160,3	-114,68	-1684,28	207,4355	74,27159	8702,097	-15762,684	8702,097
		3500	-267,68	-114,68	-1684,28	207,4355	74,27159	16989,327	-7475,454	16989,327
		6850	7624,92	-114,68	-1684,28	207,4355	74,27159	29276,557	211,776	811,776
BCY14	6700	150	-9150,6	-274,11	-1553,24	207,4355	74,27159	7526,328	-16980,065	7526,328
		3500	-1228	-274,11	-1553,24	207,4355	74,27159	15813,558	-8100,835	15813,558
		6850	6664,57	-274,11	-1553,24	207,4355	74,27159	24100,788	186,375	186,375
BCY15	2400	0	-3284,5	-103,07	-540,79	207,4355	74,27159	44992,371	-3828,277	44992,371
		1200	-457,31	-103,07	-540,79	207,4355	74,27159	47960,931	-2859,717	47960,931
		2400	2569,89	-103,07	-540,79	207,4355	74,27159	50929,491	108,843	108,843
BCY16	3150	150	-25377	-92,11	-537,36	207,4355	74,27159	29552,046	-28899,467	29552,046
		1225	-20944	-92,11	-537,36	207,4355	74,27159	32211,381	-24040,132	32211,381
		2500	-12312	-92,11	-537,36	207,4355	74,27159	34870,716	-21180,797	34870,716
BCY17	2150	150	-22405	-102,07	-540,79	207,4355	74,27159	29511,484	-26954,425	29511,484
		1225	-20872	-102,07	-540,79	207,4355	74,27159	32170,819	-24095,100	32170,819
		2300	-19339	-102,07	-540,79	207,4355	74,27159	34830,154	-21235,765	34830,154

8CY10	700	150	-22457	-2912,29	-1729,01	207,4355	74,27159	140250,747	-22607,947	140250,746
		300	-21612	-2319,59	-1569,01	207,4355	74,27159	141116,576	-21760,117	141116,576
		550	-20730	-2319,59	-1929,01	207,4355	74,27159	141998,400	-20894,282	141998,400
8CY19	3000	150	-36275	3,19	17,13	207,4355	74,27159	557,832	-36009,916	557,832
		1650	-32738	3,19	17,13	207,4355	74,27159	-4460,302	-34999,216	4460,302
		3150	-29004	3,19	17,13	207,4355	74,27159	8179,032	-30999,516	8179,032
8CY2	2700	0	-3165,1	1,94	1,33	207,4355	74,27159	98933,663	-3315,711	98933,663
		1350	-1,53	1,94	1,33	207,4355	74,27159	43171,293	23,919	23,919
		2700	3196,12	1,94	1,33	207,4355	74,27159	46613,923	3363,549	3363,549
8CY20	3900	0	24546	3,16	17,13	207,4355	74,27159	99772,500	9310,514	27772,500
		1250	-42,95	3,16	17,13	207,4355	74,27159	42112,130	29,117	29,117
		2700	3136,63	3,16	17,13	207,4355	74,27159	49451,360	3363,747	3363,747
8CY21	3000	0	29110	3,16	17,13	207,4355	74,27159	69497,701	30870,204	30870,204
		1500	32852	3,16	17,13	207,4355	74,27159	73120,401	34360,904	34360,904
		3000	36187	3,16	17,13	207,4355	74,27159	76539,111	37671,593	37671,593
8CY22	700	150	16031,1	2051,62	-455,19	207,4355	74,27159	107441,869	16949,268	16949,268
		500	16035,7	2051,62	-455,19	207,4355	74,27159	186307,695	17815,089	17815,089
		850	17660,3	2051,62	-455,19	207,4355	74,27159	187178,529	19680,920	19680,920
8CY3	3000	150	-3286	1,94	1,33	207,4355	74,27159	46276,799	-3464,861	8678,797
		1650	-2858	1,94	1,33	207,4355	74,27159	8369,497	-3026,481	9569,497
		3150	-2396	1,94	1,33	207,4355	74,27159	12280,196	-2588,102	12280,196
8CY4	700	150	15227	-3260,06	-4870,96	207,4355	74,27159	143700,304	15140,775	143700,304
		500	17402	-3260,06	-4870,96	207,4355	74,27159	144566,134	17315,945	144566,134
		850	19677	-3260,06	-4870,96	207,4355	74,27159	145431,964	19492,113	145431,964
8CY5	700	150	6839,9	5835,24	5090,91	207,4355	74,27159	157062,468	41612,403	41612,403
		500	17094,5	2655,24	5090,91	207,4355	74,27159	191909,256	42478,233	42478,233
		850	17971,1	2655,24	5090,91	207,4355	74,27159	192795,014	43344,053	43344,053
8CY6	2150	0	14882,3	-92,11	-537,36	207,4355	74,27159	78402,881	15971,209	15971,209
		1075	14998	-92,11	-537,36	207,4355	74,27159	75092,156	16630,644	16630,644
		2150	12517,7	-92,11	-537,36	207,4355	74,27159	77741,491	21289,979	21289,979
8CY7	2150	0	14424,7	-103,07	-540,79	207,4355	74,27159	72302,940	15916,341	15916,341
		1075	14004,4	-103,07	-540,79	207,4355	74,27159	75041,831	16575,676	16575,676
		2150	12490,1	-103,07	-540,79	207,4355	74,27159	77780,956	21235,011	21235,011
8CY8	2400	0	-5255,8	-92,11	-537,36	207,4355	74,27159	45032,942	772,299	45032,943
		1200	-4778,3	-92,11	-537,36	207,4355	74,27159	48001,503	2304,779	45001,503
		2400	-4297,5	-92,11	-537,36	207,4355	74,27159	50970,063	163,821	163,821
8CY9	6700	150	-9019,4	-237,94	-1478,92	207,4355	74,27159	7670,671	-17931,596	7670,671
		3350	-8124,3	-237,94	-1478,92	207,4355	74,27159	15957,091	-9644,376	15957,091
		6700	-6983,1	-237,94	-1478,92	207,4355	74,27159	24245,131	642,852	642,852
8D1	2250	150	-5409	-4375,04	-1909,17	95,12275	95,12275	-17602,758	-23726,092	-17622,738
		1200	-4924,8	-693,27	-1929,17	95,12275	95,12275	-5897,693	-10401,146	-5897,692
		2250	-4434,7	707,46	-1929,17	95,12275	95,12275	779,132	-3324,223	779,132
8D10	4375	0	-2211,6	13,39	2166,36	95,12275	95,12275	-2833,131	6265,591	-2833,131
		2187,5	2919,15	2488,39	3166,36	95,12275	95,12275	11977,907	21076,619	11977,907
		4375	21067,1	5161,27	2166,36	95,12275	95,12275	27536,639	36925,351	27536,639
8D11	4500	0	-14078	-3414,2	-967,31	95,12275	95,12275	-18364,311	20427,013	-18364,311
		2250	-3057,8	-836,08	967,21	95,12275	95,12275	-3007,022	7389,724	-3007,022
		4500	10020,1	1742,03	-967,31	95,12275	95,12275	12330,267	8287,577	8287,577
8D12	4500	0	-9039,4	-1537,68	873,71	95,12275	95,12275	-11108,945	-7436,363	-7436,363
		2250	2002,47	1040,44	873,71	95,12275	95,12275	4251,356	7220,938	4251,356
		4500	13059,3	3618,27	873,71	95,12275	95,12275	19608,656	23378,238	19608,656
8D13	4575	0	-7274,3	-1416,7	879,26	95,12275	95,12275	-10201,849	-6413,957	-6413,957
		2437,5	5991,48	213,67	1349,96	95,12275	95,12275	878,168	1401,009	1504,109
		4875	19779,9	7819,7	1349,26	95,12275	95,12275	28975,422	34642,314	28975,422
8D2	2375	0	6784,01	1231,92	3768,11	95,12275	95,12275	8416,757	24242,789	2416,727
		1187,5	11796	2959,36	3768,11	95,12275	95,12275	15493,097	31119,129	15493,097
		2375	19666,1	7097,59	3768,11	95,12275	95,12275	28311,864	44137,826	28311,864
8D3	4500	0	-11885	-2512,97	368,21	95,12275	95,12275	-15115,348	-13569,066	-13569,066
		2250	165,08	65,16	368,21	95,12275	95,12275	241,752	1798,234	241,752
		4500	12212	2643,28	368,21	95,12275	95,12275	15599,852	17145,534	15599,852
8D4	4500	0	-13659	-3154,99	-914,76	95,12275	95,12275	-17654,301	-21076,293	-17654,301
		2250	-1610,8	-576,66	-914,76	95,12275	95,12275	-2297,001	-5718,993	-2297,001
		4500	10437,1	2001,36	-914,76	95,12275	95,12275	13060,299	9638,297	9638,297
8D5	4275	0	-2140,4	78,61	2130,46	95,12275	95,12275	3165,019	6779,997	-2160,019
		2137,5	9407,35	2552,61	2130,46	95,12275	95,12275	12645,008	21591,024	12640,008
		4275	21633,3	5225,49	2130,46	95,12275	95,12275	28201,751	37149,767	28201,751
8D6	4500	125	-10413	-2431,59	1410,41	95,12275	95,12275	-13487,187	-19410,909	-13427,187
		2250	1315,44	187,2	1410,41	95,12275	95,12275	1525,272	-4098,478	1525,272
		4375	13044,3	2705,95	1410,41	95,12275	95,12275	16537,742	10614,020	10614,020
8D7	4975	0	5740,56	731,99	-62,23	95,12275	95,12275	4695,468	4454,603	4454,603
		2187,5	15271,1	3206,99	-62,23	95,12275	95,12275	19506,992	19243,629	19243,629
		4975	27517,1	5875,86	-62,23	95,12275	95,12275	35065,727	34804,361	34804,361
8D8	4875	0	5740,48	722,52	-68,63	95,12275	95,12275	4685,940	4397,094	4397,094
		2187,5	15271,2	3197,52	-68,63	95,12275	95,12275	19496,978	19208,730	19208,730
		4372	27217,2	5869,2	-62,63	95,12275	95,12275	35055,710	34767,464	34767,464

9F9	4250	125	-10246	-2423,2	-1431,73	99,12275	95,12275	-13711,743	-19725,003	-13711,743
		2250	14453,19	136,53	-1431,73	99,12275	95,12275	1700,727	-4813,579	1700,727
		4375	13211,2	2705,3	-1431,73	99,12275	95,12275	10713,197	10095,951	10699,931
9F1	3750	0	-2839,5	99,51	-26,3	73,51962	50,89207	3644,251	-2740,971	3644,251
		1875	110,96	39,51	-26,3	73,51962	50,89207	5427,076	37,055	37,055
		3750	2761,43	99,51	-26,3	73,51962	50,89207	9210,901	3820,080	3820,080
9F10	3025	225	-9042,3	-1656,04	52,23	73,51962	50,89207	2096,048	-11722,607	-2096,036
		1237,5	-4439,2	-910,07	52,23	73,51962	50,89207	3039,259	-7393,714	2039,256
		2250	-3043,2	1,17	52,24	73,51962	50,89207	4002,564	2409,406	4002,564
9F11	2000	0	2369,9	-28,52	108,52	73,51962	50,89207	1957,792	2914,023	2914,023
		1000	7609,97	1462,3	108,52	73,51962	50,89207	13609,456	10065,668	10065,660
		2000	13830,6	3256,3	108,52	73,51962	50,89207	25256,120	16202,451	16202,443
9F12	1250	0	9225,32	99,41	-26,3	73,51962	50,89207	21563,514	3417,570	3417,570
		625	9731,62	263,32	-26,3	73,51962	50,89207	23183,600	7235,865	7235,865
		1250	9236,62	68,32	-26,3	73,51962	50,89207	26484,326	10514,724	10514,724
9F13	1250	0	9225,9	29,94	-26,53	73,51962	50,89207	21562,116	9415,606	9415,606
		625	6737,24	864,31	-26,53	73,51962	50,89207	23180,412	7233,902	7233,902
		1250	9231,25	865,06	-26,53	73,51962	50,89207	26479,341	10512,831	10512,831
9F14	2000	0	2160,74	-91,27	30,06	73,51962	50,89207	1201,720	2561,906	2561,906
		1000	7484,19	1443,16	30,06	73,51962	50,89207	19273,576	9713,561	9713,561
		2000	13814,5	3041,56	30,06	73,51962	50,89207	37600,139	17041,344	17040,344
9F15	3025	225	-10054	-1674,56	55,36	73,51962	50,89207	-2337,952	-2653,119	-2037,595
		1237,5	-4609	930,68	55,36	73,51962	50,89207	1791,998	-1746,827	1797,998
		2250	-3213	-17,43	55,36	73,51962	50,89207	6761,306	-2763,519	6761,306
9F16	4000	225	-11389	-1721,01	29	73,51962	50,89207	-3961,178	-12939,047	-3961,178
		2250	-6431	-683,85	-26	73,51962	50,89207	4299,369	107,499	4899,369
		4275	11600,3	1593,24	29	73,51962	50,89207	13741,917	13744,049	13744,049
9F17	3075	0	3612,2	-791,23	146,11	73,51962	50,89207	4624,408	2132,540	2132,540
		1637,5	4732,05	345,02	146,11	73,51962	50,89207	11376,453	8884,586	8884,586
		3212	10497,7	1652,39	146,11	73,51962	50,89207	18763,141	16291,275	16291,275
9F18	275	225	-5688	-4077,6	3310,44	73,51962	50,89207	-15676,166	-57227,247	-15676,166
		612,5	-3792,8	-3802,61	-3810,44	73,51962	50,89207	-14076,796	-37627,877	-14076,796
		1000	-955852	-3667,47	-3810,44	73,51962	50,89207	-12987,652	-34538,733	-12987,652
9F19	850	0	-2162,5	-2162,52	3879,69	73,51962	50,89207	-6060,147	-4659,514	-4659,514
		425	-1452,1	-1857,2	3879,69	73,51962	50,89207	-4194,671	-2790,042	-2790,042
		850	-1452,1	-1215,8	3879,69	73,51962	50,89207	-1534,532	-132,920	-132,920
9F2	3750	0	-1781,1	-29,94	25,53	73,51962	50,89207	2354,419	2010,116	2354,419
		1875	1763,8	-29,94	25,53	73,51962	50,89207	5137,444	85,091	5137,444
		3750	2544,6	-29,94	25,53	73,51962	50,89207	7920,469	2747,934	2747,934
9F20	2200	150	-9673,2	-1805,59	1053,9	73,51962	50,89207	-5869,037	-9035,378	-5869,037
		1100	-4201,6	-384,99	1053,9	73,51962	50,89207	1161,091	599,730	1161,091
		2200	1369,6	630,01	1053,9	73,51962	50,89207	8191,219	6430,379	6430,379
9F21	4200	150	-8677,6	-1711,68	17,16	73,51962	50,89207	-6194,640	-10836,641	-6194,640
		2250	-4466,01	-37,68	17,16	73,51962	50,89207	3660,198	-961,803	3660,198
		4350	6744,19	1636,32	17,16	73,51962	50,89207	13515,036	8873,036	8873,036
9F22	4200	150	-7927,7	-1670,58	-591,08	73,51962	50,89207	-5364,163	-12364,132	-5364,163
		2250	-3782,89	3,42	-591,08	73,51962	50,89207	4109,840	-3090,129	4109,840
		4350	6769,98	1677,42	-591,08	73,51962	50,89207	13593,842	6383,874	6383,874
9F23	4200	150	-7942,4	-1666,37	-603,11	73,51962	50,89207	-5375,125	-12622,160	-5375,125
		2250	-3793,53	7,63	-603,11	73,51962	50,89207	4098,878	-3148,257	4098,878
		4350	6755,35	1681,74	-603,11	73,51962	50,89207	13579,681	6315,746	6315,746
9F24	4200	150	-7715,2	-1714,4	17,34	73,51962	50,89207	-6227,132	-10872,272	-6227,132
		2250	-3982,8	-40,4	17,34	73,51962	50,89207	3617,705	-1023,040	3617,705
		4250	6707,2	1633,6	17,34	73,51962	50,89207	13472,542	6801,298	6801,298
9F25	3300	150	-9499,8	-1774,44	1125,34	73,51962	50,89207	-6650,752	-7111,545	-6650,752
		1650	-4032,5	-550,44	1125,34	73,51962	50,89207	1379,375	-51,417	1379,375
		3300	1442,9	673,56	1125,34	73,51962	50,89207	9409,502	6945,711	6945,711
9F26	850	0	-25157	-1962,94	6073,95	73,51962	50,89207	-3192,382	-2975,658	-2975,658
		425	-23715	-1637,52	6073,95	73,51962	50,89207	-3327,910	-1110,386	-1110,386
		850	-21716	-1102,44	6073,95	73,51962	50,89207	-661,703	1549,737	-661,703
9F27	850	0	-32178	-4597,89	-5801,55	73,51962	50,89207	-21619,110	-69278,683	-21619,110
		425	-36724	-4272,57	-5801,55	73,51962	50,89207	-19753,638	-67413,213	-19753,638
		850	-34725	-3738,19	-5801,55	73,51962	50,89207	-17093,515	-64753,091	-17093,515
9F28	3200	150	-12476	-2471,72	-1178,9	73,51962	50,89207	-9510,269	-20648,870	-9510,269
		1750	-7006,9	-1247,72	-1178,9	73,51962	50,89207	-2480,141	-13618,742	-2480,141
		3350	-1533,6	-23,72	-1178,9	73,51962	50,89207	4549,987	-6808,614	4549,987
9F29	4200	150	-11930	-1484,12	82,94	73,51962	50,89207	-9371,206	-14949,627	-9371,206
		2250	161,27	169,88	-62,94	73,51962	50,89207	5082,906	104,486	104,486
		4350	12253,3	1863,88	-62,94	73,51962	50,89207	19597,059	14558,639	14558,639
9F3	1750	0	3013,3	99,51	-26,3	73,51962	50,89207	6080,774	-5343,481	6080,774
		875	-3776,4	39,51	-26,3	73,51962	50,89207	7379,519	-4044,716	7379,519
		1750	-2039,5	99,51	-26,3	73,51962	50,89207	8678,264	-2745,971	8678,264
9F30	4000	150	-13034	-1856,52	600,5	73,51962	50,89207	-11131,393	-13403,366	-11131,393
		2250	-1142,5	-182,52	600,5	73,51962	50,89207	3322,760	1130,787	1130,787
		4250	10949,3	1491,48	600,5	73,51962	50,89207	17776,913	15584,940	15584,940

BF31	4200	150	-1394,1	-1192,14	566,76	73,519621	50,892077	-1077,87264	-1295,943	-1077,87264
		2250	-851,03	-118,74	566,76	73,519621	50,892077	3695,269	1497,609	1497,609
		4350	11240,3	1757,26	566,76	73,519621	50,892077	18140,442	15941,702	15941,702
BF32	4200	150	-1104,2	-1460,1	-54,35	73,519621	50,892077	-9366,6227	-14508,978	-9366,6227
		2250	149,77	205,9	-54,35	73,519621	50,892077	1037,326	145,1364	145,1364
		4350	12541,6	1679,9	-54,35	73,519621	50,892077	16541,679	14599,357	14599,357
BF33	4200	150	-1244,8	-3451,52	-1239,21	73,519621	50,892077	-9486,5749	-23012,201	-7486,5749
		1750	-995,1	-1150,92	-1239,21	73,519621	50,892077	-3476,451	-11498,199	-3476,4511
		3350	-1483,7	-3,992	-1239,21	73,519621	50,892077	4593,677	-6662,025	4593,677
BF34	4200	150	-3947,5	-3113,79	-6247,35	73,519621	50,892077	-21668,364	-20762,606	-21668,364
		425	-301,01	4701,69	-6247,35	73,519621	50,892077	-21764,663	-31296,617	-21764,663
		3475	-8612,4	-4854,26	-6247,35	73,519621	50,892077	19104,588	-6606,216	19104,588
BF35	4200	225	-1096,6	-1078,11	-51,79	73,519621	50,892077	-10362,944	-14471,566	-10362,944
		2400	8,03	92,93	-51,79	73,519621	50,892077	4206,2869	-252,3336	4206,2869
		4275	10966,1	2666,36	-51,79	73,519621	50,892077	18879,4403	14046,897	14046,897
BF36	4200	225	-5201,7	-5376,76	-179,14	73,519621	50,892077	-7191,513	-12064,669	-7191,513
		2250	220,67	244,81	-179,14	73,519621	50,892077	5440,402	-24,6254	5440,402
		4275	9160,43	2791,76	-179,14	73,519621	50,892077	17879,464	12496,412	12496,412
BF37	4200	150	-3536,4	-3264,5	-761,15	73,519621	50,892077	-26864,433	-19926,117	-19926,117
		2287,5	3020,6	4901,01	-4150,21	73,519621	50,892077	61493,539	18465,153	18465,153
		4425	11766,4	4441,53	-4150,21	73,519621	50,892077	63794,788	20016,412	20016,412
BF38	4200	225	-4719	-4911,66	-1,1	73,519621	50,892077	-14677,8	-18002,797	-14677,8
		1662,5	4924,2	4984,87	-1,1	73,519621	50,892077	50,1205	3150,7251	50,1205
		3500	1449	4962,01	438,01	73,519621	50,892077	10781,462	12351,552	12351,552
BF39	4050	225	-1442	-14257,3	960,91	73,519621	50,892077	-14503,278	-52798,048	-14503,278
		2250	-5246	-1624,2	960,91	73,519621	50,892077	4170,9059	-3621,561	4170,9059
		4275	12444,2	4042,43	-262,31	73,519621	50,892077	28143,306	17153,926	17153,926
BF4	1750	0	2820,2	29,51	-26,3	73,519621	50,892077	14244,514	2820,0000	2820,0000
		875	3999,9	29,51	-26,3	73,519621	50,892077	15442,059	4119,0225	4119,0225
		1750	5177,25	29,51	-26,3	73,519621	50,892077	16341,604	5417,5701	5417,5701
BF40	4025	150	-1577,7	-1474,79	-60,2	73,519621	50,892077	-16703,838	-21875,711	-16703,838
		2262,5	1461,6	-601,8	-60,2	73,519621	50,892077	2219,033	1832,845	2219,033
		4275	4501,9	3541,12	-60,2	73,519621	50,892077	21152,91	13280,040	13280,040
BF41	4025	150	-1755,6	-1853,56	-74,92	73,519621	50,892077	-18439,775	-24125,471	-18439,775
		2262,5	1941,7	-631,8	-74,92	73,519621	50,892077	2233,0967	2100,6003	2233,0967
		4275	4917,7	3541,12	-74,92	73,519621	50,892077	21367,979	16134,079	16134,079
BF42	4050	225	-1489,9	-4536,84	-273,03	73,519621	50,892077	-14756,511	-30031,956	-14756,511
		2250	1211,6	-154,09	-273,03	73,519621	50,892077	4177,976	1157,503	4177,976
		4275	3543,5	4050,94	-273,03	73,519621	50,892077	23152,487	17116,985	17116,985
BF43	3075	225	-1811,1	3960,38	473,67	73,519621	50,892077	-14739,042	11796,418	14739,042
		1662,5	-3010,6	-746,57	473,67	73,519621	50,892077	-6,042	-4662,416	-6,042
		3500	1199,44	3016,69	473,67	73,519621	50,892077	16726,261	12668,691	12668,691
BF44	775	0	-1304,2	3090,69	-4530,89	73,519621	50,892077	59460,134	14883,154	14883,154
		387,5	2919,7	3615,67	-4530,89	73,519621	50,892077	59999,1501	15432,1301	15432,1301
		775	5144,4	4083,3	-4530,89	73,519621	50,892077	60250,43	17773,433	17773,433
BF45	4050	225	-3588,6	-3412,42	-279,4	73,519621	50,892077	-7672,671	-13734,819	-7672,671
		2250	-90,54	130,33	-279,4	73,519621	50,892077	4967,5441	-1094,604	4967,5441
		4275	2221,19	2683,08	-279,4	73,519621	50,892077	17390,618	11336,462	11336,462
BF46	4050	225	-11079	-9666,72	-60,02	73,519621	50,892077	-10518,176	-15121,712	-10518,176
		2250	-110	-188,47	-60,02	73,519621	50,892077	4101,008	-302,478	4101,008
		4275	10969,8	2831,78	-60,02	73,519621	50,892077	18720,202	14116,746	14116,746
BF47	3200	150	-907,91	-1897,1	-471,05	73,519621	50,892077	-4941,167	-7488,308	5594,131
		1750	1412,69	1819,9	-471,05	73,519621	50,892077	9009,979	-111,492	7909,979
		3350	3731,3	5537,9	-471,05	73,519621	50,892077	11283,27	1261,297	1261,297
BF48	4200	150	-1973,7	10,06	-52,15	73,519621	50,892077	2653,272	-3280,831	2653,272
		2250	994,88	10,06	-52,15	73,519621	50,892077	5769,262	836,157	836,157
		4350	3963,44	10,06	-52,15	73,519621	50,892077	8886,248	3952,145	3952,145
BF49	4200	150	-1791,9	-45,61	-550,97	73,519621	50,892077	2510,479	1772,436	1772,436
		2250	1776,67	-45,61	-550,97	73,519621	50,892077	9627,467	4227,462	4227,462
		4350	4745,23	-45,61	-550,97	73,519621	50,892077	9764,455	7344,166	7344,166
BF5	1750	0	-5229,8	-35,84	25,53	73,519621	50,892077	5790,943	-5415,606	5790,943
		875	-3993	-29,94	25,53	73,519621	50,892077	7089,608	-4116,861	7089,608
		1750	-2756,1	-29,84	25,53	73,519621	50,892077	8388,433	-2818,116	8388,433
BF50	4200	150	-1150,5	44,46	564,19	73,519621	50,892077	3552,741	1203,267	1203,267
		2250	1016,07	44,46	564,19	73,519621	50,892077	6669,729	4335,255	4335,255
		4350	4786,62	44,46	564,19	73,519621	50,892077	9786,717	7442,243	7442,243
BF51	4200	150	-1940,9	14,06	-51,79	73,519621	50,892077	2690,839	-2240,732	2690,839
		2250	1037,65	14,06	-51,79	73,519621	50,892077	5207,347	876,257	876,257
		4350	3996,19	14,06	-51,79	73,519621	50,892077	9804,835	3991,245	3991,245
BF52	3200	150	-977,15	159,24	-732,54	73,519621	50,892077	3320,415	-3935,474	3320,415
		1750	1284,61	159,24	-732,54	73,519621	50,892077	7705,265	-1580,626	7705,265
		3350	3546,37	159,24	-732,54	73,519621	50,892077	10079,11	814,223	814,223
BF53	3200	150	934,9	591,65	727,05	73,519621	50,892077	7779,598	4771,904	4771,904
		1750	3186,66	591,65	727,05	73,519621	50,892077	10154,446	7146,752	7146,752
		3350	5440,42	591,65	727,05	73,519621	50,892077	12529,294	9521,600	9521,600

BF54	4000	150	-3640,8	-229,49	45,25	73,51962	50,89207	10870,226	-3841,171	10870,226
		2250	-272,25	-229,49	45,25	73,51962	50,89207	4167,214	-324,083	4167,214
		4350	2696,31	229,49	45,25	73,51962	50,89207	7304,202	2792,956	2792,956
BF55	4000	150	611,94	168,79	-588,03	73,51962	50,89207	4048,765	-3935,034	4048,765
		2250	2350,62	168,79	-588,03	73,51962	50,89207	7345,753	121,955	191,955
		4350	5326,18	168,79	-588,03	73,51962	50,89207	10430,741	3208,943	3208,943
BF56	4000	150	-2000,6	-167,95	588,03	73,51962	50,89207	-922,926	-5079,259	-922,926
		2250	-2230,1	-167,95	588,03	73,51962	50,89207	2194,062	-72,250	2194,062
		4350	736,5	-167,95	588,03	73,51962	50,89207	5311,050	3044,738	3044,738
BF57	4000	150	-2705,1	247,49	-40,25	73,51962	50,89207	2135,593	-2749,656	2135,593
		2250	261,47	247,49	40,25	73,51962	50,89207	5250,581	267,332	267,332
		4350	3228,03	247,49	40,25	73,51962	50,89207	8365,569	3404,320	3404,320
BF58	3000	150	-3376,9	-597,45	903,99	73,51962	50,89207	-87,947	-9651,936	-87,947
		1750	-3117,1	-597,45	903,99	73,51962	50,89207	9236,980	-7077,070	9236,980
		3250	-2870,39	-597,45	903,99	73,51962	50,89207	4661,738	-4902,346	4661,738
BF6	1750	0	2644,9	99,64	25,53	73,51962	50,89207	13454,983	2747,934	2747,934
		875	3781,8	-29,94	25,53	73,51962	50,89207	15253,328	4046,679	4046,679
		1750	5018,69	-29,94	25,53	73,51962	50,89207	16651,962	5345,41	5345,41
BF7	775	225	34886	-3926,47	-3627,27	73,51962	50,89207	-12205,984	-50987,701	-12205,984
		612,5	-33632	3401,17	-3627,27	73,51962	50,89207	13806,548	-54008,310	13806,548
		1000	-32750	-3531,03	3627,27	73,51962	50,89207	-12517,399	-53099,166	-12517,399
BF8	3275	0	-1547,62	794,67	833,17	73,51962	50,89207	4021,165	1770,741	1770,741
		1637,5	6666,66	341,62	833,17	73,51962	50,89207	11072,209	8322,787	8322,787
		3275	15192,1	1650	833,17	73,51962	50,89207	19479,501	15939,487	15939,487
BF9	4050	225	11,99	-1708,94	-6,76	73,51962	50,89207	8969,775	8836,838	8969,775
		2250	-45,05	-51,81	-6,76	73,51962	50,89207	4891,780	-135,260	4891,780
		4275	11580,1	1605,31	-6,76	73,51962	50,89207	19733,305	13816,268	19816,268

1. Balok yang ditinjau
2. Bentang bersih balok
3. Lokasi yang ditinjau
4. VD = Gaya geser balok akibat beban mati
5. VL = Gaya geser balok akibat beban hidup
6. VE = Gaya geser balok akibat beban gempa
7. M Nak+ = Momen nominal aktual balok positif (Lampiran Momen Rencana Balok)
8. M nak- = Momen nominal aktual balok negatif (Lampiran Momen Rencana balok)
9. Vren = 1,05 (VD + VL) + 0,7 1,25 ((Mnak + Mnak -)/ln)
(Gaya geser rencana balok)
10. *Vmaks* = 1,05 (VD + VL + 4(VE)
(Gaya geser maksimum balok)
11. Ytterpakai pilih yang terbesar

Lampiran Momen Kolom

ELEMEN	Letak	L	Ln	LOC	Selatar Sumbu-X				Selatar Sumbu-y			
					MD N.mm	ML N.mm	Mexka N.mm	Meuki N.mm	MD N.mm	ML N.mm	Mexka N.mm	Meuki N.mm
1	2	3	4	5	6	7	8	9	10	11	12	13
1K50X50	atas	2700		250	-4586825,1	308300,76	1575241,7	-1,56E+08	-8072807	-2941314	1391400,48	-1,34E+08
1K50X50	bawah	2700	2100	2350	-3184110	-1885782	-1185185,5	41885199	-8244822	-5560556	-5127,017	51217017
1K50X50	atas	2700		250	-462008,1	-47322,2	1535068,2	-1,64E+08	7555236,4	2809642,8	1375235,54	-1,39E+08
1K50X50	bawah	2700	2100	2350	-4017685	-1246830,5	-34985318	34985318	21276849	-8170175	-43092,682	43092682
1K50X50	atas	3300		350	7560940,5	6p1139,16	1386620,00	-1,39E+08	3496136A	11393232	1258294,05	-1,26E+08
1K50X50	bawah	3300	2600	2950	-15372751	-1874428	-2,09E+08	208758000	-20734317	-4558252	-1,59E+08	158673016
1K50X50	atas	4000		350	-15430572	-4947586	-2,82E+08	282385270	58759057	11829151	2059449,02	-2,06E+08
1K50X50	bawah	4000	3300	3650	15139751	3019372,5	284287756	-2,85E+08	-60982755	-13902208	-2,1E+08	209873270
1K50X50	atas	4000		350	-17376573	-6645537	-2,27E+08	227331704	51683666	8501459,5	875781,27	-87575127
1K50X50	bawah	4000	3300	3650	17570972	6690027,2	222490656	-2,22E+08	-51673470	-8445328	-85628,030	85628030
1K50X50	atas	3300		350	-8519165	-1904071	-81052127	81052127	-24482117	-5782744	606297,40	-60629740
1K50X50	bawah	3300	2600	2950	8809802,2	1335902,2	1190667,3	-1,19E+08	9542088,2	3025004	-1,1E+08	109678430
1K50X50	atas	4000		350	2617567,2	849301,81	1382139,2	-1,38E+08	17007196	5447378,7	1380464,86	-1,38E+08
1K50X50	bawah	4000	3300	3650	-5320960	-2364216	-1,63E+08	162801636	-14327962	-4530505	-1,58E+08	158384545
1K50X50	atas	1000		350	2897888	1141941,9	-1,72E+08	172250849	14751054	4564432,9	613062,19	-61306219
1K50X50	bawah	1000	400	650	2795282	1734108,8	-1,16E+08	115810881	16436411	5105395,7	568083,21	-56808321
1K50X50	atas	3000		350	14330139	5278147,8	-1,03E+08	103345149	13457809	5331453,8	1126072,92	-1,13E+08
1K50X50	bawah	3000	2400	2750	-2947686,3	-852423,5	2428553,3	-2,43E+08	-31016140	-11455708	-1,7E+08	169886482
1K50X50	atas	2700		250	2314005	-917886,7	1572556,4	-1,57E+08	8229486	3881602	1400000,44	-1,4E+08
1K50X50	bawah	2700	2100	2350	2826172,6	1815448	-40878327	40878327	15869904	5642711,6	-51962,582	51962582
1K50X50	atas	2700		250	-4799934	-811027,4	1583336,705	-1,63E+08	7009335,9	2698795,1	1379516,52	-1,38E+08
1K50X50	bawah	2700	2100	2350	5080845,1	427236,53	-33865569	33865569	-20700832	-7972013	-42836,344	42836344
1K50X50	atas	3300		350	-12323115	-1703016	1391729,25	-1,39E+08	33444602	11771194	1261513,98	-1,26E+08
1K50X50	bawah	3300	2600	2950	21356485	6446063,5	-2,09E+08	209037416	-20281091	-4506515	-1,59E+08	159454579
1K50X50	atas	4000		350	26524397	7525785,4	-2,82E+08	282423730	58147514	11804585	2071841,79	-2,07E+08
1K50X50	bawah	4000	3300	3650	-26024193	-5692275	2842108,74	-2,86E+08	-60304837	-13785035	-2,11E+08	211103047
1K50X50	atas	4000		350	25407232	5139058,8	-2,27E+08	227372127	50178468	8198457,1	97946,031	-97946031
1K50X50	bawah	4000	3300	3650	-25033754	-5414193	2222511,854	-2,23E+08	-50383179	-9144877	-85987,390	85987390
1K50X50	atas	3300		350	4776465	4870653,3	-90902661	90902661	-24594212	-6751420	913166,65	-91316665
1K50X50	bawah	3300	2600	2950	-4726642	-1713857	11846513,5	-1,18E+08	9354750,9	2885678,4	-1,1E+08	110432324
1K50X50	atas	4000		350	8334330,3	2778294,8	-1,68E+08	167773366	13614613	4413821,4	1590712,60	-1,59E+08
1K50X50	bawah	4000	3300	3650	-4762397	-771970,1	1139245,25	-1,38E+08	-16773310	-5383582	-1,39E+08	138642178
1K50X50	atas	1000		350	-21606740	-6098260	-1,67E+06	167344343	15516013	4536573,6	817543,65	-81754365
1K50X50	bawah	1000	400	650	-25563575	-7316774	-1,16E+08	115711108	16254536	5086159,4	58369,886	-5836938S
1K50X50	atas	3000		350	-14860732	-5443824	-1,05E+08	105159411	11228161	4829474,5	1126091,51	-1,13E+08
1K50X50	bawah	3000	2400	2750	2645841,6	852537A,2	2428177,81	-2,43E+08	-28070995	-10786809	-1,7E+08	170069186
KB50X45	atas	2700		250	-8346206	-2009713	1060264,85	-1,06E+08	-5074865	-1968681	1111775,83	-1,12E+08
KB50X45	bawah	2700	2100	2350	18415616	3622563,8	-11606724	11606724	16694744	2993467,5	-537299,26	53729926
KB50X45	atas	2700		250	-5687044	-1559255	1114024,07	-1,11E+08	9567171,1	2471290,5	1130,0853	-1,13E+08
KB50X45	bawah	2700	2100	2350	8377678,3	2513314,8	-19860727	19860727	-18083925	-3583137	-571946,66	57194666
KB50X45	atas	3300		350	16742479	3965295,2	54309751	54309751	-10941630	-2151421	827541,36	-82754136
KB50X45	bawah	3300	2600	2950	-16863396	-3714004	77568627	-77568627	14672268	2583357,1	-959874,92	95987492
KB50X45	atas	3300		350	11365813	3221327,1	-48333739	48333739	8946103,9	2576644,8	904952,70	-90495270
KB50X45	bawah	3300	2600	2950	-10179172	-2937314	68605409	-68605409	-18015124	-4118992	-1,01E+06	101264897
KB50X45	atas	4000		350	22727383	4693293,6	-84354056	84354056	-10172483	-1488595	1111768,74	-1,12E+06
KB50X45	bawah	4000	3300	3650	-20749603	-4967849	77165327	-77165327	5148798,1	599926,2	-1,14E+08	114317931
KB50X45	atas	4000		350	14548613	-4170535,6	-80985734	80985734	14410135	4007151,9	1291145,86	-1,29E+06
KB50X45	bawah	4000	3300	3650	18375310	5843327	77965893	-77965893	-9847598	-2822266	-1,28E+08	128298800
KB50X45	atas	2700		250	-8092742	-1955292	1068021,2	-1,06E+08	-1573874	-345784,2	1140371,52	-1,14E+08
KB50X45	bawah	2700	2100	2350	13307238	3711901,7	-13482572	13482572	8997191,1	2594444	-55839,713	55839713
KB50X45	atas	2700		250	-5123723	-1840155	1242618,96	-1,24E+08	8302063,1	2764244	1143948,14	-1,14E+08
KB50X45	bawah	2700	2100	2350	5819477,9	3019320,81	-43393760	43393760	-14683280	-4866649	-557404,49	55740449
KB50X45	atas	3300		350	11122798	3000368,8	-02295413	92295413	24193848	6473490,3	92122,781	-92122781
KB50X45	bawah	3300	2600	2950	-9129739	-3638704	105305984	-1,05E+08	-20798967	-6530140	-1,05E+06	104901795
KB50X45	atas	4000		350	14859201	5248446,3	-1,23E+08	123374153	15047350	3432494,4	1191773,65	-1,19E+08
KB50X45	bawah	4000	3300	3650	-13473607	-4600153	120257755	-1,2E+08	-24553990	-6644136	-1,21E+08	121263415
KB50X45	atas	3300		350	22068581	4811539,1	-54505256	54505256	-15600946	-3408962	936511,25	-93651125
KB50X45	bawah	3300	2600	2950	-16537939	-4330738	74578642	-74578642	10942630	3543704	-1,06E+08	106052879
KB50X45	atas	4000		350	-11908691	4606147,1	-77001798	77001798	-18536353	-1988568	1328312,81	-1,33E+08
KB50X45	bawah	4000	3300	3650	-11730906	-5009353	77428182	-77428182	12988978	1139372,2	-1,27E+08	127222880
KB50X45	atas	2700		250	-2053294	-1612729	1104456,74	-1,1E+06	-4102596	-233669,3	1264938,40	-1,26E+08
KB50X45	bawah	2700	2100	2350	3357797,16	2590169,5	-21933873	21933873	5340384,9	2392010,5	-85420,491	85420491
KB50X45	atas	3300		350	2668456,4	31,8856	-70423259	70423259	-3973605	-328744,2	1138077,52	-1,13E+08
KB50X45	bawah	3300	2600	2950	-4565018	-2722940	90989494	-90989494	6047901,7	2420460,6	-1,44E+08	144463724
KB50X45	atas	4000		350	-5133419	3622500,9	-97439939	97439939	419343,57	-794676,8	1675415,24	-1,68E+06
KB50X45	bawah	4000	3300	3650	2999803	-3733263	92103762	-92103762	1121604	539315,56	-1,67E+08	166769041
KB50X45	atas	2700		350	5045672,2	1374944,3	-48052323	48052322	-8342086	-2175524,3	39464656	-39464656
KB50X45	bawah	2700	2100	2450	-3303343	-843650	12320912	-1,23E+08	24370334	9531507,1	-1,09E+08	108922732
KB50X45	atas	4000		350	9197858,8	2290679,7	-1,28E+08	127896808	57356695	17772471	99576,661	-99576661
KB50X45	bawah	4000	3300	3650	-6171675	-1326063	124593385	-1,25E+08	-75297124	-25672512	-1,08E+08	108160300
KB50X45	atas	3300		350	2309401,2	1688152,1	-1,08E+08	108329785	-76057350	-29724163	780962,31	-78096231
KB50X45	bawah	3300	2600	2950	-3661680	-1486252	119354514	-1,19E+08	74731001	28172503	-96403,710	96403710

KB50X45	atas	4000		350	19666,64	16675221	-1,25E+08	124524296	60466048	-23253987	120182193	-1,23E+08	
KB50X45	bawah	4000	3300	3650	-11042243	-2116465	127056871	-1,27E+08	65940856	22421925	-1,16E+08	115942215	
KB50X45	atas	2700		300	2492037,8	217313,52	-52720045	52720045	62940726	38324014	38734494	-38734494	
KB50X45	bawah	2750	2100	2450	-9140403	-820521,91	126444132	-1,26E+08	-27807950	-9916036	-1,09E+08	108150279	
KB50X45	atas	3300		350	-3048023	-251571,5	109156435	-1,09E+08	74414746	27834842	96319012	-96319012	
KB50X45	bawah	3300	2600	2950	2855119,9	313881,74	-96719060	96319080	-76137876	-28016714	-79280499	79280499	
KB50X45	atas	2700		250	-1380985	-315332,3	122942105	-1,23E+08	-27550114	-10606507	109103067	-1,09E+08	
KB50X45	bawah	2700	2100	2350	6800864,69	19666,24	47449037	47449037	74859501	26551541	26101664	-26101664	
KB50X45	atas	3300		350	1303280,2	-94876,86	99132745	99132745	-87357445	-33028215	74061532	-74061532	
KB50X45	bawah	3300	2600	2950	521547,8	50158,77	115778536	-1,16E+08	85219254	31881037	93767042	-93767042	
KB50X45	atas	4000		350	125554,7	250491,1	-1,27E+08	127703293	-89296735	-29092891	100162155	-1E+08	
KB50X45	bawah	4000	3300	3650	-3145171	-311595,3	128707897	-1,29E+08	77189636	26162204	97648350	-97648350	
KB50X45	atas	2700		250	-2023037	-538507,6	125537055	-1,28E+08	34215802	11228855	103454782	-1,09E+08	
KB50X45	bawah	2700	2100	2350	246518,86	144247,08	-52561912	52561912	-7504640	-2757516	-26757491	26757491	
KB50X45	atas	3300		350	-982967,7	-119978	106271275	-1,06E+08	90619785	33774981	94459857	-94459857	
KB50X45	bawah	3300	2600	2950	1091240,8	-56650,65	93677585	93677585	-88284890	-33735324	-74563433	74563433	
KB50X45	atas	4000		350	469705,1	310792,2	-1,28E+08	128410024	83776036	23645587	103202088	-1,03E+08	
KB50X45	bawah	4000	3300	3650	-1440402	-7435,78	127857080	-1,28E+08	69125600	20109257	99078693	-99078693	
KB50X45	atas	2700		250	4457,23	228144,75	123096546	-1,24E+08	18214779	6003826	114125620	-1,14E+08	
KB50X45	bawah	2700	2100	2350	-2540708	-1064163	-49461291	49461291	6109078	2458413	28725223	-28725223	
KB50X45	atas	3300		350	-3745715	-760732	-1,07E+08	103199586	-67091035	-27366795	78076496	-75076496	
KB50X45	bawah	3300	2600	2950	3446457,6	-1185157,9	102242341	-1,13E+08	74855250	25326430	-83101311	83101311	
KB50X45	atas	4000		350	-2379823	-1543464	-1,14E+08	140046505	-73043607	-24743932	98045347	-98045347	
KB50X45	bawah	4000	3300	3650	1241837,9	137658,1	1134341790	-1,14E+08	81247778	-23939099	-94359310	94359310	
KB50X45	atas	2700		250	-2817726	-437504,5	122206053	-1,22E+08	32510481	11795160	116856487	-1,16E+08	
KB50X45	bawah	2700	2100	2350	2687425,1	36106,36	-60021009	60021009	-59000828	-23501757	-40238750	40238750	
KB50X45	atas	3300		350	-3621165	453626,8	107364518	-1,07E+08	68074217	24991393	107923105	-1,08E+08	
KB50X45	bawah	3300	2600	2950	3712413,1	-378351,5	-83270101	83270101	-1,05E+08	28821345	-92270111	92270111	
KB50X45	atas	4000		350	-4043546	-1181152	1,2E+08	120078840	90607110	28900744	122488950	-1,22E+08	
KB50X45	bawah	4000	3300	3650	-5423836	604515,49	1187070571	-1,17E+08	-1,05E+08	26888638	-1,14E+08	114083850	
KB50X45	atas	2700		250	-2227148	-652667,7	123752982	-1,24E+08	-18305306	-7388870	115235457	-1,15E+08	
KB50X45	bawah	2700	2100	2350	3251631,2	1245886,7	-49583142	49583142	6151180	2453550	-29035090	29035090	
KB50X45	atas	3300		350	5478235	2199842,8	-1,03E+08	105213183	-97675212	27265027	75775862	-75775862	
KB50X45	bawah	3300	2600	2950	-5428588	-1889291	118304967	-1,18E+08	74952278	26211347	-94010514	94010514	
KB50X45	atas	4000		350	4767112,5	3068987,8	-1,4E+08	140332940	-73044398	-24581175	99944619	-99944619	
KB50X45	bawah	4000	3300	3650	-3647717	-1824663	134314620	-1,34E+08	81566016	27228047	-95248364	95248364	
KB50X45	atas	2700		250	-1333049	-602934,7	131874555	-1,32E+08	32134063	11396858	120086751	-1,2E+08	
KB50X45	bawah	2700	2100	2350	-989435	459140,63	-59707220	59707220	-58703521	-23220587	-40582464	40582464	
KB50X45	atas	3300		350	2438840,09	-819100,1	107749190	-1,06E+08	87913165	30082827	103929283	-1,09E+08	
KB50X45	bawah	3300	2600	2950	-42410,22	959921,79	-85512010	89512010	-1,05E+08	26705507	-93147653	93147653	
KB50X45	atas	4000		350	8516624,8	2882719,5	-1,2E+08	120109256	90159397	29648701	123679365	-1,24E+08	
KB50X45	bawah	4000	3300	3650	-4110259	-1850838	118872553	-1,17E+08	-1,05E+08	29139480	-1,18E+08	118210384	
KB50X45	atas	2700		250	236468,56	-604937,5	84015401	-84015401	-7148869	1932736	74512973	-74512973	
KB50X45	bawah	2700	2100	2450	-2037309	1586634,1	-3099506	3099505,7	5692271,6	431532,23	-7057673	7057672,7	
KB50X45	atas	4000		350	4788634,9	1454180,8	-1,26E+08	126423714	82071059	23943863	104920594	-1,05E+08	
KB50X45	bawah	4000	3300	3650	-3182178	-1121879	122730326	-1,23E+08	-94066278	-30393009	-1,01E+08	100778405	
KB50X45	atas	4000		250	8876111,4	2151475,5	-20809854	20809854	31911270	-3538928	18058523	-18058523	
KB50X45	bawah	4000	3400	3650	-6978927	-1981790	18433726	-18433726	-66297901	18152907	-21532259	21532259	
KB50X45	atas	2700		250	-800620,4	-101233,8	12551153	-1,23E+08	-26501858	-10410976	110844245	-1,11E+08	
KB50X45	bawah	2700	2100	2350	117314,74	-31156,95	-47494402	47494402	75592953	27812701	-26518810	26518810	
KB50X45	atas	3300		350	451507,94	378232,69	-99122460	99122460	-90908135	-32898111	75218242	-75218242	
KB50X45	bawah	3300	2600	2950	-1501450	-382998,8	115757201	-1,16E+08	85378968	31693879	-95264903	95264903	
KB50X45	atas	4000		350	1845048,5	229874,25	-1,27E+08	127396772	92298179	27907090	101716740	-1,02E+08	
KB50X45	bawah	4000	3300	3650	1154285,7	-353,206	126705256	-1,29E+08	78510787	25912187	-99293077	99293077	
KB50X45	atas	4000		350	1391804,1	1284783,5	-82901561	82901561	-57019351	-16686102	20323739	-20323739	
KB50X45	bawah	4000	3400	3750	3675936,19	1084931,8	-72618754	72618754	-50374765	-14870283	12459856	-12459856	
KB50X45	atas	2700		250	-2103235	-486231,6	126971144	-1,27E+08	34540178	12428975	111218369	-1,11E+08	
KB50X45	bawah	2700	2100	2350	1470656,8	314659,84	-52013390	52013390	-74423837	-27626101	-27193094	27193094	
KB50X45	atas	2200		350	-2523410	-671162,6	106899670	-1,07E+08	91668907	33570727	99574439	-99574439	
KB50X45	bawah	3300	2600	2950	1813220,6	728750,57	-94164911	94164911	-95350613	-32850613	-75724788	75724788	
KB50X45	atas	2700		250	1051990,4	425236,44	122248321	-1,23E+08	-24400631	-9035744	111720651	-1,12E+08	
KB50X45	bawah	2700	2100	2350	-4065311	-1214753	-48066391	48066391	63189455	23704529	-39465896	39465895	
KB50X45	atas	4000		350	-2980083	-748844,1	-1,26E+08	127623833	48238048	17406035	101544356	-1,02E+08	
KB50X45	bawah	4000	3300	3650	809586,14	-6883,37	124292580	-1,24E+08	-70884247	-25955961	-1,11E+08	110967329	
KB50X45	atas	690		250	-19522300	-2167443	-14454876	14454876	-22010940	-9296157	19362775	-19362775	
KB50X45	bawah	690	240	490	-14947241	-2297274	-11152017	11152017	-14712406	-10950414	14655215	-14655215	
KB50X45	atas	4000		350	-16020330	-1425959	-1,24E+08	124483741	-64020137	-22900192	126376213	-1,26E+08	
KB50X45	bawah	4000	3300	3650	8753504,6	1729152,7	127029562	-1,27E+08	60553102	21979202	-1,19E+08	119073477	
KB50X45	atas	690		250	-27290889	-2841691	-15374654	15374654	-42619512	-9320912	22913685	-22913685	
KB50X45	bawah	690	240	490	-23233041	-2172836	-12140110	12140110	-20330331	-1836034	17924972	-17924972	
KB50X45	atas	2700		250	-1013905	-358144,2	125608624	-1,26E+08	28193576	10118359	111967745	-1,12E+08	
KB50X45	bawah	2700	2100	2350	-633850,4	165283,26	-51953157	51953157	-64010878	-23360313	-39723438	39723438	
KB50X45	atas	3300		350	-533503,1	-437634,9	110105822	-1,1E+08	76006592	26044265	95763167	-95763167	
KB50X45	bawah	3300	2600	2950	113504,67	414283,01	-96993871	96993871	-77845004	-28204524	-81313009	81313009	
KB50X45	atas	2700		250	4991321,6	1430076,3	108703174	-1,09E+08	-1595981	-204147,3	119295540	-1,19E+08	
KB50X45	bawah	2700	2100	2350	-12965285	-3671610	-13486346	13486346	8987946,1	2535164,2	-58274166	58274166	
KB50X45	atas	3310		300	2847607,7	-8496180	-14469341	14469341	-38559165	-5162095	17648608	-17648608	
KB50X45	bawah	3310	2760	2960	-8463344	-74405,43	-1848960	1848960,1	-2494507	-2820889	-35116632	35116632	

KB50X45	atas	2700		350	-131338,5	24240,25	-46627360	46627783	14160067	4573731	57883043	-57883043
KB50X45	bawah	2700	2100	2450	-1011417	-252890,2	1122377514	-1,22E+08	-8206245	-2506677	-1,18E+08	11921,2862
KB50X45	atas	4000		350	-193903,5	-1073103	-1,32E+08	121627209	21300102,3	2701,05	119944031	-1,2E+08
KB50X45	bawah	4000	3300	3650	-272393,3	735089,86	1136773629	-1,19E+08	-2283605	-6978075	-1,25E+08	125421281
KB50X45	atas	690		350	-7842767	869591,03	-7684134	7884134,1	70130066	-20212722	15451063	-15451107
KB50X45	bawah	690	240	490	-1258436,2	2241341,7	-2124441	2124440,6	-69909305	-20115733	-3180015	3180015
KB50X45	atas	4300		350	14483892	-4351413	-77028236	77028236	-18290555	-1089945	139348113	-1,38E+08
KB50X45	bawah	4000	3300	3650	1000108	460796,5	-7740504	-7740504	1025515	9535,06	-1,34E+08	1,34E+08
KB50X45	atas	4000		350	11474410	-5243422	-48597542	49597542	-3417561	2090426,5	82277348	-82277348
KB50X45	bawah	4000	3300	3650	12394314	5530108,1	26615436	-26615436	5060050,05	-1148770	66518326	66518326
KB50X45	atas	2700		250	-7554191	933209,19	1109779	-1,1E+08	-2239889,7	-1925393,5	131899489	-1,32E+08
KB50X45	bawah	2700	2100	2350	432861,05	-2290936	-21612145	21612145	6013645	2576050,9	-68759282	68759282
KB50X45	atas	3300		350	-920731,6	-2624723	-70478512	70478512	-1125227	-3864532	143047174	-1,43E+08
KB50X45	bawah	3300	2600	2950	-1852215	2138513,1	91122321	-91122321	7114210,7	2612700,5	-1,5E+08	150136491
KB50X45	atas	4000		350	9515119	-9001961	-97401115	97401115	1742774,2	-34613,53	175515545	-1,76E+08
KB50X45	bawah	4000	3300	3650	-46303,71	3164272,7	91851461	-91851461	146911,08	-1300660,4	-1,74E+08	174494190
KB50X45	atas	4000		350	-3140807	-4585373	66599346	66599346	-2770514,3	1742989,3	144211618	-1,44E+08
KB50X45	bawah	4000	3300	3650	-920016,2	3691888,5	40544011	-40544011	8741208	-2571311	-1,2E+08	120039815
KB50X45	atas	2700		250	5043255,4	1547361,4	10611247	-1,06E+08	1112934,2	529773,02	1147346618	-1,15E+08
KB50X45	bawah	2700	2100	2350	-1582591,8	-3736564	-1,2088E+08	1,2088E+08	7589209,1	2449926,7	-50224500	50224500
KB50X45	atas	690		350	-11188152	-5923585	-4554157	4554156,5	-3947017	265479,60	10993493	-10993493
KB50X45	bawah	690	240	490	-3706897	-3260787	2702476	-2702475,8	-4020413	1670023,42	7415854,6	-7415855
KB50X45	atas	3300		350	-19272663	-4010534	-55075141	55075141	-13220084	-2338548	93106580	-93106580
KB50X45	bawah	3300	2600	2950	-15871435	3710105,2	-78611491	78611491	-7908614	1605835,5	-1,07E+08	106657654
KB50X45	atas	4000		350	-22476013	-4641571	-84142103	84142103	-11523668	-1983568	157463411	-1,16E+08
KB50X45	bawah	4000	3300	3650	20252828	4614140,6	-77231369	77231369	9985134,8	1720234,31	-1,15E+08	118106574
KB50X45	atas	3310		200	-21107122	2879335	-8694035	8694035,3	-2870416	946775,58	8891666,5	-8891667
KB50X45	bawah	3310	2760	2360	4435693,1	-641041,2	-4833945	4833945,3	1536262	1346632	-7666646	7666646,3
KB50X45	atas	2700		250	4333703,9	2060089,9	109667663	-1,09E+08	8129055,7	3564943,5	118376113	-1,18E+08
KB50X45	bawah	2700	2100	2350	-12446737	-5440857	-15456360	15456360	-9240011	-2526392	-59100705	59100705
KB50X45	atas	3300		350	-19962925	-6307182	-45067567	45067567	17951756	3553734,6	104775467	-1,05E+08
KB50X45	bawah	3300	2600	2950	1520749,6	6036294,7	66350852	-66350852	-1617366	-9952942	-1,16E+08	116224,26
KB50X45	atas	4000		350	-23436838	-7111657	-74889121	74889121	20477205	4148645,1	133506080	-1,34E+08
KB50X45	bawah	4000	3300	3650	21243282	6245770,5	72441755	-72441755	-21483338	-4036689	-1,3E+08	129679638
3KB45X45	atas	2700		250	-1998833	328959,75	84015445	-84015445	-6909513	-1093367	74235739	-74235739
3KB45X45	bawah	2700	2300	2450	2102695,7	-1579810	-3102350	3102359,9	5604340,9	410667,6	-7015967	7015986,6
3KB45X45	atas	3300		250	20513040	7002168,8	-42488625	42488625	-21047352	-6234474	22605705	-22605705
3KB45X45	bawah	3300	2800	3050	-10023810	-1632115	67604949	-67604949	2810262,3	-479072,7	-41410510	41410510
3KB45X45	atas	5000		250	10213164	2051307	-1,17E+08	117111361	17665587	4710940,8	101112846	-1,01E+08
3KB45X45	bawah	5000	4500	4750	-16084557	-5727146	62018333	-62018333	-12812795	-2584696	-55936520	55936520
3KB45X45	atas	4000		250	27107055	10383886	-84301384	84301384	4874703	-3150400	47530241	-47530241
3KB45X45	bawah	4000	3500	3750	-14381456	-4832191	59938136	-59938136	-15325159	-5443973	60689846	-60689846
3KB45X45	atas	3300		250	-19837778	-6849625	-42486694	42486694	-21241921	-8260432	22725904	-22725904
3KB45X45	bawah	3300	2900	3050	8599327,4	1386340,8	97601683	-97601683	2966472,7	-498673,7	-41586050	41586050
3KB45X45	atas	5000		250	-7665064	-2508535	-1,17E+08	117110519	17730136	4720562,1	101515205	-1,02E+08
3KB45X45	bawah	5000	4500	4750	14728931	5493251,3	62018528	-62018528	-12716790	-2588667	-56180652	56180652
3KB45X45	atas	4000		250	-26774302	-10336386	-84302372	84302372	3802967,7	-3336586	47660267	-47660267
3KB45X45	bawah	4000	3500	3750	13615085	4834054,9	59938616	-59938616	-14705620	-5165362	60845191	-60845191
3KB45X45	atas	2700		250	-1000204	-187983,8	112964145	-1,12E+08	-57707902	-17549106	60722311	-60722311
3KB45X45	bawah	2700	2100	2350	397304,18	71202,45	-45001219	45001219	78338515	26389462	-35943542	35943542
3KB45X45	atas	3300		350	1389780,7	257292,29	-1,58E+08	155754524	-15879739	-2346885	74013648	-74013648
3KB45X45	bawah	3300	2600	2950	-1121076	-205164,3	127775605	-1,28E+08	83309347	27049814	-60101861	60101861
3KB45X45	atas	2700		350	796495,35	195138,7	50233445	-50233445	5731155	2019765	30086427	-30086427
3KB45X45	bawah	2700	2100	2450	-1933144	-466038,1	12012532	-1,2E+08	48253386	-1552766	-79412294	79412294
3KB45X45	atas	3300		350	-2042297	-486699,8	12841524	-1,28E+08	49636011	15941134	56161029	-56161029
3KB45X45	bawah	3300	2600	2950	2907517,7	673533,66	-1,76E+08	175746779	20137771	2035973,7	-74916405	74916405
4KB30X30	atas	2700		200	-1359251	-3300902,5	20031011	-20031011	458937,63	143485,93	18442088	-18442088
4KB30X30	bawah	2700	2300	2500	454821,55	137748,21	5835754,5	-5835754	-411159,7	-97497,43	11988084	-11988084
4KB30X30	atas	3300		200	-57224,85	-20625,94	7191491,5	-7191492	455013,95	114815,12	19128381	-19128381
4KB30X30	bawah	3300	2900	3100	379275,7	110985,1	-16548612	16548612	168560,62	110005,84	-17753857	17753857
4KB30X30	atas	4000		250	-1486451	1149455,2	-25023258	25023258	8511008,5	181220,36	25758239	-25758239
4KB30X30	bawah	4000	3650	3800	-3245661	-1629044	22489821	-22489821	-4230763	-207634,5	-23456866	23456866
4KB30X30	atas	2700		200	-98341,05	-31656,86	5156552,6	-5156553	731797,12	214792,61	11794415	-11794415
4KB30X30	bawah	2700	2300	2500	882338,34	274344,06	20205841	-20205841	-407270,6	-100942,6	-16809417	16809417
4KB30X30	atas	3300		200	-232825	-70059,63	7868901,3	-7868901	122124,19	166833,21	21010557	-21010557
4KB30X30	bawah	3300	2900	3100	-3430266	-1038892	-17034891	17034891	1344613,3	227760,23	-18833653	18833653
4KB30X30	atas	4000		250	2447007,5	-1066150	-23199934	23199934	6021455,3	-541679,2	27229989	-27229989
4KB30X30	bawah	4000	3650	3800	2196158,5	1545805,1	24017978	-24017978	-2638527	41296,12	-25054739	25054739
4KB30X30	atas	2700		200	-1205487	-392413,5	20312965	-20312965	479419,17	132184,52	19073946	-19073946
4KB30X30	bawah	2700	2300	2500	19273,41	16878,43	5154211,1	-5154211	-730821,3	-222070,6	-12065478	12065478
4KB30X30	atas	3300		200	114552,08	50390,88	7869558,5	-7869558	307748,74	105857,15	21483545	-21483545
4KB30X30	bawah	3300	2900	3100	3711020,2	1091794,4	-17052029	17052029	1015982,2	229681,77	-19013456	19013456
4KB30X30	atas	4000		250	-2062053	1136875,4	-28160566	28160566	6016057	-499993,7	27808155	-27808155
4KB30X30	bawah	4000	3650	3800	-2570613	-1596829	23982127	-23982127	-3026566	-24100,87	-25621937	25621937
4KB30X30	atas	2700		200	1047702,2	353385,79	20049444	-20049444	465098,36	163783,09	19232205	-19232205
4KB30X30	bawah	2700	2300	2500	-552193,3	-145549,6	5832325	-5832325	-898624,2	-104975	-12478130	12478130
4KB30X30	atas	3300		200	-52461,97	2556,17	7191123,1	-7191123	476336,7	143697,22	19943973	-19943973

K@30X30	bawah	3300	2900	3100	-3522889	-1087830	-16863947	16863947	2166039,68	113429,21	-17868700	17868762	
K@30X30	atas	4000		250	1525985,9	-1090207	-24390479	24390479	2660518,6	357339,27	27055770	-27055770	
K@30X30	bawah	4000	3550	3800	2992291,9	1580378,1	22456840	-22456840	-4552088	-335549,8	-24665281	24665284	
K30X50	atas	2700		250	967803,8	-286728,8	80905927	-80905927	-1329178	-771122,7	84570430	-84570430	
K30X50	bawah	2700	2100	2350	1371132,3	291020,95	2678405,1	-2678405	3607605,8	1516083,5	42371246	-42371246	
K30X50	atas	3300		350	7583975	-1134856,5	-28435585	28435585	61243,04	138482,65	80997087	-80997087	
K30X50	bawah	3300	2600	2950	4300222,86	1655610,9	50442581	-50442581	4911747,78	1107000,63	54861248	-54861248	
K30X50	atas	4000		350	-8606643	-4615637	-58213197	58213197	11147437	3766748,5	63668546	-63668546	
K30X50	bawah	4000	3300	3650	8413239,6	1779194	54324577	-54324577	11219311	3839764	64363147	-64363147	
K30X50	atas	2700		250	-1076211	-199229,7	8100441,2	-8100441,2	-1191412	-670227,2	10018079	-10018079	
K30X50	bawah	2700	2100	2350	-1348592	-268753,8	10000575	-10000575	3327179	1287217,4	43142154	-43142154	
K30X50	atas	3300		350	8450448,3	954308,89	20770162	-20770162	-1370149	2039036,38	61442714	-61442714	
K30X50	bawah	3300	2600	2950	-2169990	-207715,1	5683820,1	-5683820,1	-2822538	37045,18	62855237	-62855237	
K30X50	atas	4000		350	10664193	5044687,2	98769342	-98769342	11201388	5791580,9	63971274	-63971274	
K30X50	bawah	4000	3300	3650	-9296267	-1955507	-64152678	64152678	-1111412	-3507340	-64659002	64659002	
K30X25	atas	2700		250	2293330,6	1039779,7	-10084367	10084367	1456356,8	2529356,85	13696206	-13696206	
K30X25	bawah	2700	2300	2550	-1308648	-593778,1	-14550867	14550867	2142783,5	753082,7	15433229	-15433229	
K30X25	atas	3300		300	4361596,5	1911376,2	-11780715	11780715	2631000,5	913327,2	14480535	-14480535	
K30X25	bawah	3300	2900	3100	-3753955	-1644780,6	13274862	-13274862	-2606007	-451739,3	15587936	-15587936	
K30X25	atas	4000		350	2649944	966358,59	-22560499	22560499	2850593,6	811094,53	21547377	-21547377	
K30X25	bawah	4000	3550	3800	-3310196	-1207337,4	28439611	-28439611	-3183914	-892909,5	19959587	-19959587	
K30X25	atas	2700		250	460885,06	243651,31	-2010940	2010940	589867,5	571834,22	9021293,4	-9021293	
K30X25	bawah	2700	2300	2550	-491669,2	-186064,1	18851538	-18851538	-3333691	-1233050	14461041	-14461041	
K30X25	atas	2700		300	-993058,9	-16380,23	16210738	-16210738	1993715,5	146577,34	9846528,5	-9846528	
K30X25	bawah	2700	2300	2500	161979,03	-59540,98	15750067	-15750067	-1121287	-176607	15118091	-15118091	
K30X25	atas	3300		350	1153446,7	467362,69	-30167702	30167702	-694194,5	452169,64	13264290	-13264290	
K30X25	bawah	3300	2800	3050	-771058,1	-352406,7	23976121	-23976121	661804,6	305133,2	14796686	-14796686	
K30X25	atas	3300		300	-1603133	-378639,6	-11180088	11180088	2894983,5	677348,34	14637140	-14637140	
K30X25	bawah	3300	2900	3100	1189038,5	-27140,26	13996570	-13996570	-2745607	-271420,3	15661203	-15661203	
K30X25	atas	4000		350	1887600	736847,63	30500366	-30500366	6112,85	1564436,17	16640344	-16640344	
K30X25	bawah	4000	3550	3750	-1666973	-619148,4	30760539	-30760539	-3066331	-1409526,8	17355092	-17355092	
K30X25	atas	4000		250	2724028,8	1302271,2	-33973837	33973837	2367443,7	1243185,56	19672003	-19672003	
K30X25	bawah	4000	3550	3800	-7614499	-4813768	-26870977	26870977	3003487	-412921,3	18858929	18858929	
K30X25	atas	2700		200	644583,7	47091,47	-13894182	13894182	2635902,9	739340,84	10636731	-10636731	
K30X25	bawah	2700	2300	2500	620607,9	-250771,6	16198774	-16198774	-1417874	-1413213,9	15677959	-15677959	
K30X25	atas	3300		300	275776,14	541707,84	-21042328	21042328	6815544	1855693,6	22145612	-22145612	
K30X25	bawah	3300	2900	3100	-913252,1	-816837,8	19673572	-19673572	-4867561	-1353878,1	19881581	19881581	
K30X25	atas	2700		200	-2403869	-1008880	-34875602	34875602,4	3153691,2	935397,91	10791746	-10791746	
K30X25	bawah	2700	2300	2500	785117,34	367150,36	13800862	-13800862	-1530176	-2203498,7	15955838	15955836	
K30X25	atas	3300		300	-2077537	-1400382	-41874138	41874138	7883389,7	1788172,3	25081242	-25081242	
K30X25	bawah	3300	2900	3100	2731599	1237428,8	13099112	-13099112	-5428351	-970900,5	-22151044	22151044	
K30X25	atas	2700		200	-1678893	-619160,7	16735283	-16735283	2127188,4	599502,01	17347511	-17347511	
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KB50X45	bawah	4000	3400	3650	4620048,6	-2644031	33602206	-33602206	77033647	17366682	-20584923	20584923
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6K30X50	bawah	1000	400	650	22489891	6709314,7	-76590470	76590470	-7079151	-2575469	-19400980	19400980	
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BK30X50	atas	3000		250	-17532625	-9497511	-34114520	34114520	18568931	6134524	40444206	-40444206	
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BK30X50	bawah	3310	2760	2960	12007517	5715117,5	3626506,5	-3626506,5	-19337,181	-1689061	-22613249	22613249	
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BK30X50	bawah	630	240	490	-3489572	-272799,1	-5053468	5053469,1	1339047	1418931,2	8965125	-8965125	
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BK30X50	atas	1700		250	-9913832	-2054094,7	-22111782	22111782	9609173,5	3295465,3	37263,43	-37263,4	
BK30X50	bawah	1700	400	550	-8158613,1	-1900031,6	-21807405	21807405	-8971800	-3616946	30240896	-30240896	
BK30X50	atas	3000		250	18215833	9803077,1	-34354405	34354405	15275691	5073046,2	40554315	-40554315	
BK30X50	bawah	3000	2400	2750	53452251	8233861,5	23849105	-23849105	-15255,267	-5761430	-30147125	30147125	
BK30X50	atas	3310		200	-15422156	-2705283	-17863631	17863631	11848021	3162500,31	15788186	-15788186	
BK30X50	bawah	3310	2760	2960	-10946373	-5461443	3609803,5	-3609803	354721,4	-1710766	-23270163	23270163	
BK30X50	atas	590		250	4548886,3	504359,47	-6853214	6853213,7	2307257	1710090,9	13485612	-13485612	
BK30X50	bawah	590	240	490	2956227,2	325204,69	-6980787	6980787,2	1444014	1074866,9	8800514,8	-8800515	
K30X25	atas	4000		250	3228593,8	370519,86	-14268338	14268338	2536840,1	734659,16	18433012	-18433012	
K30X25	bawah	4000	3500	3750	-3009165	-758150,2	12526916	-12526916	2639916	-2794502	-714613,1	16354190	
K30X25	atas	4000		250	4040360,8	1056044	-5873351	5873351,4	3227200,1	886440,94	11398769	-11398769	
K30X25	bawah	4000	3500	3750	-3736455	-987845	8041518,4	-8041518	-2960878	-856565	-11028936	11028936	
K30X25	atas	4000		250	3139085,9	1071522,5	-2749514	2749514,4	1747106,7	529329,61	4051880,5	-4051880,5	
K30X25	bawah	4000	3500	3750	-3421705	-938621,5	2168660,5	-2168661	-2125877	-487645,6	-3434786	3434786,1	
K30X25	atas	3300		350	2319717,4	693492,82	-3907420	6607420,3	2080322,3	648196,04	24348436	-24348436	
K30X25	bawah	3300	2600	2950	-2171022	-786890	8451633,5	-8451633	-2780512	-757282,1	-24433580	24433580	
K30X25	atas	4000		250	5677009,6	2270316	-1216624	1216629	309691,66	46599,29	9957860,2	-9957860	
K30X25	bawah	4000	3500	3750	-5552643	-2168327	1181922,3	-1181922,3	-277188,2	97591,61	-9288934	9288933,7	
K30X25	atas	3310		200	2308138,5	962416,43	-3818363	3818362,8	1252344,3	148175,6	4328533,6	-4328533	
K30X25	bawah	3310	2660	3060	-2193566	-809861,1	6719668,7	-6719669	-4125027	-1255781	-3256265	3256264,9	
K30X25	atas	4000		250	6658454,4	2257671,6	-4973224	4973224,3	-1213515	-266706,2	13701111	-13701111	
K30X25	bawah	4000	3500	3750	-5912939	-2183813	4725254,9	-4725255	-992626,2	38049,25	-2011641	2011640,6	
K30X25	atas	4000		250	2353540	904543,72	-2424880	2424880,2	405677,87	376204,66	15374238	-15374238	
K30X25	bawah	4000	3500	3750	-2207719	-839843,9	2462283	-2462283	-499125,3	-437439,7	-14914263	14914263	
K30X25	atas	4000		250	5400063,8	2132633,3	-18813066	18813066	2149364,5	1746694,03	16129356	-16129356	
K30X25	bawah	4000	3500	3750	-5216700	-2067573	18578900	-18578900	-2277882	-2299437	-15854819	15854819	
K30X25	atas	4000		250	2138489,5	893804,93	-1583216	1583216,3	-155417,8	245378,62	9401115,1	-9401116	
K30X25	bawah	4000	3500	3750	-2049536	-857494,7	1634396,9	-1634396	-386451	-2360254	-8701035	8701034,8	
K30X25	atas	4000		250	-2664016	-1031384	17297785	-17297785	6950869,8	1822603,2	18101758	-18101758	
K30X25	bawah	4000	3500	3750	2530434,1	1043909,8	-16698660	16698660	-6725376	-1575990	-18254186	18254186	
K30X25	atas	4000		250	-2913005	-994370,6	-12021083	12021083	5174116,7	1402239,7	10811490	-10811490	
K30X25	bawah	4000	3500	3750	2873616,5	1032317	11101185	-11101185	-6503756	-1520992	-10739672	10739672	
K30X25	atas	4000		250	-6038737	-1627865	6441068	6441068,8	5810584,9	1110204	5568460,7	-5568461	
K30X25	bawah	4000	3500	3750	4566669,9	1924040,7	-5596914	5596914	-4437019	-1083482	-4782305	4782305,4	
K30X25	atas	4000		250	-326773	-184709,1	-23012035	23012035	5739786,8	856361,07	11063587	-11063587	
K30X25	bawah	4000	3500	3750	319753,18	163006,93	2312948	-2312948	-5780181	-979793,8	-11302849	11302849	
K30X25	atas	4000		250	181446,56	-38948,28	-15289272	15289272	7173057,8	1196202,9	9426865,5	-9426866	
K30X25	bawah	4000	3500	3750	191775,34	131739,1	-1341286	1341286	-7019610	-1227672	-9439645	9439643,4	
K30X25	atas	4000		250	5754448,6	1165415	-6600096	6600095,9	636152,56	498070,9	2820853,5	-2820854	
K30X25	bawah	4000	3500	3750	-2608119	-493725,4	7024410	-7024410	-6951137	517934,36	-3021906	3021907,5	
K30X25	atas	4000		250	1284812,8	406010,07	-23022490	23022490	5519205,1	812037,32	11104840	-11104840	
K30X25	bawah	4000	3500	3750	-1255943	-404803,4	23139916	-23139916	-5556655	-854718,6	-11345491	11345491	
K30X25	atas	4000		250	211829,03	144139,65	-1536774	1536770,2	1049978,9	117206,4	9442470	-9442470	
K30X25	bawah	4000	3500	3750	-891037,1	-257574,4	15410136	-15410135	-5609811	-1204695	-9462868	9462866,2	
K30X25	atas	4000		250	-2506364	-1184494	6577211	6577211,3	6179811,3	2184094,1	333284,5	-333284,5	
K30X25	bawah	4000	3500	3750	2457169,8	451947,71	7015455,1	-7015455	-317806	422647,79	-3392251	3392251,3	
K30X25	atas	4000		250	3260787,5	1201600,9	-17309402	17309402	6543506	1662927,8	18284012	-18284012	
K30X25	bawah	4000	3500	3750	-3283225	-1202310	16707494	-16707494	-6455524	-1617146	-18440947	18440947	
K30X25	atas	4000		250	3283226,3	1053233,5	-12018662	12018662	6206747,3	1449357,1	10925853	-10925853	
K30X25	bawah	4000	3500	3750	-3043248	-1092386	11092997	-11092997	-6207739	-1571629	-10857311	10857311	
K30X25	atas	4000		250	6121566,3	1868366,5	-6442442	6442442,5	5970947,2	1182043,6	5742562,2	-5742562	
K30X25	bawah	4000	3500	3750	-4761095	-1341479	5600874	-5600874	-5062331	-531907,2	-4920802	4920802,2	
K30X25	atas	4000		250	-9788166	-3607905	-11511986	11511986	2648318	259863,34	19240795	-19240795	
K30X25	bawah	4000	3500	3750	10055544	3600029,9	9849207,7	-9849208	-2608146	-309187,2	-19160602	19160602	
K30X25	atas	4000		250	-10187483	-3802764	-8144311	8144311,1	2739853,2	99208,37	11975293	-11975293	
K30X25	bawah	4000	3500	3750	10122860	3578279,3	6573045	-6573045	-2606009	-161696,5	-11595137	11595137	
K30X25	atas	4000		250	-12738596	-4455240	-3754170	3754170,2	2051503,4	64471,92	4443829,6	-4443830	
K30X25	bawah	4000	3500	3750	11105470	3912691,6	2539362,6	-2539363	-2118677	-41716,16	-3763978	3763978,6	

Keterangan Momen Kolom

1. Kolom yang ditinjau
2. Letak yang ditinjau
3. l = Panjang kolom
4. h = panjang bersih kolom
5. Lokasi yang ditinjau
6. MD = Momen pada kolom akibat beban mati sejajar sb - x
7. ML = Momen pada kolom akibat beban hidup sejajar sb - x
8. Mexka = Momen pada kolom akibat beban gempa kanan sejajar sb - x
9. Mexki = Momen pada kolom akibat beban gempa kiri sejajar sb - x
10. MD = Momen pada kolom akibat beban mati sejajar sb -y
11. ML = Momen pada kolom akibat beban hidup sejajar sb - y
12. Meyka = Momen pada kolom akibat beban gempa kanan sejajar sb - y
13. Meyki = Momen pada kolom akibat beban gempa kiri sejajar sb - y

Lampiran Gaya Aksial Kolom

FRAME	ELEMEN	ND	NL	Nex	Ney
1	2	3	4	5	6
K1H1	1K60X60	-1165227	-178386,7	30930,37	212499,77
	1K60X60	-1152056	-178386,7	30930,57	212496,77
K1H10	1K60X60	-139949,2	-9016,01	-6595,1	439,96
	1K60X60	-139951,8	-9016,01	-6596,1	438,96
K1H11	1K60X60	-1033931	-192735,9	206946,7	91400,28
	1K60X60	-1020963	-192735,9	206946,7	91400,28
K1H12	1K60X60	-834501,1	-198232	207709,9	110041,76
	1K60X60	-819187	-198232	207709,9	110041,76
K1H13	1K60X60	-663141,1	-81819,36	117999,4	11224,04
	1K60X60	-672578,1	-81819,36	117999,4	11224,04
K1H14	1K60X60	-540380	-73172,13	53866,33	-4257,43
	1K60X60	-550726,1	-73172,13	53866,33	-4257,43
K1H15	1K60X60	-429638,5	-60074,26	16001,63	-3688,12
	1K60X60	-2460,35	-60074,26	16001,63	-3688,12
K1H16	1K60X60	-197275,1	-21450,76	-1592,85	-12751,49
	1K60X60	-217301,1	-21450,76	-1592,85	-12751,49
K1H2	1K60X60	-1022812	-167923,1	26421,49	171470,49
	1K60X60	-1038126	-167923,1	26421,49	171470,49
K1H3	1K60X60	-869620,8	-131701,2	38025,68	113096,57
	1K60X60	-864083,3	-131701,2	38025,68	113096,57
K1H4	1K60X60	-796096,5	-119891,9	89963,3	88542,56
	1K60X60	-797453,5	-119891,9	89963,3	88542,56
K1H5	1K60X60	-558520	-77466,07	-53226,16	61190,99
	1K60X60	-572658,1	-77466,07	-53226,16	61190,99
K1H6	1K60X60	-489179,2	-62012,95	-1902,45	17436,85
	1K60X60	-491696,2	-86212,95	-1902,45	17436,85
K1H7	1K60X60	-306484,9	-21567,96	-26399,56	19194,13
	1K60X60	-320030,9	-21307,96	-26750,56	19194,13
K1H8	1K60X60	-236737,1	-10081,74	4952,86	-8380,19
	1K60X60	-238882,1	-10081,74	4952,86	-8380,19
K1H9	1K60X60	-165486,8	-9175,18	-1593,77	4256,7
	1K60X60	-179661,5	-9175,18	-1593,77	4256,7
K1J1	1K60X60	-1163789	-176831,3	-30825,89	213035,94
	1K60X60	-1151430	-176831,3	-30825,89	213035,94
K1J10	1K60X60	-133805	-8918,05	8583,72	791,92
	1K60X60	-135807,7	-8918,05	8583,72	791,92
K1J11	1K60X60	-1030685	-192412,6	-206042,8	94222,19
	1K60X60	-1018169	-192412,6	-206042,8	94222,19
K1J12	1K60X60	-837716,1	-178272,4	-207816,5	112436,97
	1K60X60	-817402,1	-138272,4	-207816,5	112436,97
K1J13	1K60X60	-666138,1	-82839,03	-118088,2	12747,6
	1K60X60	-674662,1	-82839,03	-118088,2	12747,6
K1J14	1K60X60	-541981,2	-73762,7	-54166,24	-41192,35
	1K60X60	-561418,2	-73762,7	-54166,24	-41192,35
K1J15	1K60X60	-421640,7	-60166,53	-11998,6	-34846,9
	1K60X60	-440977,7	-60166,53	-11998,6	-34846,9
K1J16	1K60X60	-193893,2	-20636,48	1057,59	-6541,09
	1K60X60	-213819,2	-20636,48	1057,59	-6541,09
K1J2	1K60X60	-1022891	-167976,6	-26309,22	171305,98
	1K60X60	-1038006	-167976,6	-26309,22	171305,98
K1J3	1K60X60	-863867,8	-131702,8	-37966,35	112545,47
	1K60X60	-883304,8	-131702,8	-37966,35	112545,47
K1J4	1K60X60	-794465,6	-119778,4	-89929,68	66462,24
	1K60X60	-796821,8	-119778,4	-89929,68	66462,24
K1J5	1K60X60	-559989,6	-77521,06	53240,03	51772,57
	1K60X60	-574125,6	-77521,06	53240,03	51772,57
K1J6	1K60X60	-490271,5	-66062,52	1867,38	17827,9
	1K60X60	-492627,6	-66062,52	1867,38	17827,9
K1J7	1K60X60	-307914,1	-21209,67	26366,94	19784,39
	1K60X60	-322050,1	-21209,67	26366,94	19784,39

K1J6	1K50X50	-296582,3	-9983,76	-4576,13	-5090,5
	1K50X50	-206837,9	-9983,75	-4876,13	-5098,5
K1J9	1K50X50	-166142,4	-9041,54	1561,46	4729,69
	1K50X50	-179857,3	-9041,54	1561,46	4729,69
K2A1	KB50X45	-650671,6	-68310,61	241939,3	358121,28
	KB50X45	-639539,6	-68310,61	241939,3	358121,28
K2A10	KB50X45	-214610,1	-21575,69	31366,35	-443,68
	KB50X45	-232103,4	-21575,69	31366,35	-443,68
K2A11	KB50X45	-62258,03	1932,82	3966,41	4201,45
	KB50X45	-76888,79	1932,82	3966,41	4281,45
K2A12	KB50X45	-72748,73	-3860,27	9340,04	7795,45
	KB50X45	-87374,49	-3860,27	9340,04	7795,45
K2A13	KB50X45	-21308,99	-3360,25	1950,79	7197,84
	KB50X45	-22581,23	-3360,25	1960,79	7197,84
K2A2	KB50X45	-770621,5	-68057,52	302447,7	173221,28
	KB50X45	-753491,4	-68057,52	302447,7	173221,28
K2A3	KB50X45	-58258,81	-53088,22	189999,7	276566,24
	KB50X45	-54406,15	-53088,22	189999,7	276566,24
K2A4	KB50X45	-56608,2	-74545,13	222452,7	-12667,16
	KB50X45	-610674,6	-74545,13	222452,7	-12667,16
K2A5	KB50X45	-423082,5	-40258,98	131144,3	178956,76
	KB50X45	-440625,8	-40258,98	131144,3	178956,76
K2A6	KB50X45	-495210,8	-58215,2	153941,2	-61503,53
	KB50X45	-512704,3	-58215,21	153941,2	-61503,53
K2A7	KB50X45	-297109,9	-25973,18	70646,17	93877,45
	KB50X45	-314603,2	-25973,18	70646,17	93877,45
K2A8	KB50X45	-354389,3	-40218,75	81468,79	-24549,75
	KB50X45	-371882,5	-40218,75	81468,79	-24549,75
K2A9	KB50X45	178650,9	-15521,39	27290,27	38644,49
	KB50X45	194144,2	-11521,39	27290,27	38644,49
K2C1	KB50X45	-595156,7	-54423,26	164891,7	149427,65
	KB50X45	-564024,7	-54423,26	164891,7	149427,65
K2C10	KB50X45	-308996,5	-55092,87	-2044,82	9982,55
	KB50X45	-326889,8	-55092,87	-3044,82	9982,55
K2C11	KB50X45	-117452,5	-19071,73	-1163,34	7681,89
	KB50X45	-132083,4	-19071,73	-1163,34	7681,89
K2C12	KB50X45	-113089,2	-262125,6	-63232,49	-193117,36
	KB50X45	-1119860	-262125,6	-63232,49	-193117,36
K2C13	KB50X45	-994776	-222676,1	-71141,17	-160619,64
	KB50X45	-1006558	-222676,1	-71141,17	-160619,64
K2C14	KB50X45	-811457,4	-182826,3	-55635,54	-114255,39
	KB50X45	-828950,7	-182826,3	-55635,54	-114256,39
K2C15	KB50X45	-590428,6	-131317,2	-33441,53	-55066,64
	KB50X45	-607920	-131317,2	-33441,53	-55066,64
K2C16	KB50X45	-361276,6	-79537,39	-15048,88	-14760,23
	KB50X45	-378771,9	-79537,39	-15048,88	-14760,23
K2C17	KB50X45	-149338,3	-28160,94	-2475,14	3704,2
	KB50X45	-157969,1	-28160,94	2475,14	3704,2
K2C18	KB50X45	-48365,34	-11537,39	-788,4	4312,87
	KB50X45	-50627,68	-11537,39	-788,4	4312,87
K2C2	KB50X45	-480052,3	-70740,69	113924,5	113307,08
	KB50X45	-502894,9	-70740,69	113924,5	113307,08
K2C3	KB50X45	-358472,9	-53618,21	50721,69	67910,42
K2C4	KB50X45	-376966,2	-53613,21	50721,69	67910,42
	KB50X45	-196102,1	-33984,74	31960,55	40472,83
	KB50X45	-213595,4	-33984,74	31960,55	40472,83
K2C5	KB50X45	-81604,36	-14569,01	10188,88	19048,77
	KB50X45	-1099097,7	-14569,01	10188,88	19048,77
K2C6	KB50X45	-1178289	-241844,9	-131424,6	17990,46
	KB50X45	-1167157	-241844,9	-131424,6	17990,46
K2C7	KB50X45	-979983,5	-192197,2	-97212,7	18015,93
	KB50X45	-9963766,1	192197,2	-97212,7	18015,93
K2C8	KB50X45	-747015	-143557,1	-54122,83	18437,24
	KB50X45	-764608,3	-143557,1	-54122,83	18437,24

K2C5	KB50X45	-497443,3	-5337,76	-22699,57	12589,35
	KB50X45	-514942,8	-90032,75	-23899,57	12580,35
K2U1	KB60X45	-1200958	-271121,3	-4725,47	-13061,29
	KB60X45	-1214090	-271121,3	-4725,47	-13061,29
K2D10	KB60X45	-1141383	-396420,8	-23227,67	-102914,66
	KB60X45	-1168576	-396420,8	-23227,67	-102914,66
K2D11	KB50X45	-806963,4	-210739,2	-17340,76	-51954,87
	KB50X45	-812456,7	-216739,2	-17340,76	-51954,87
K2D12	KB60X45	-509242,2	-125411,1	-13006,29	-30278,37
	KB60X45	-509238,7	-129411,1	-13006,29	-30273,37
K2S2	KB50X45	-360298,1	-215004,7	7521,14	-10888,71
	KB50X45	-361021,7	-219039,7	7521,14	-10889,71
K2D25	KB50X45	-216152,4	-45047,87	-7934,16	-9849,52
	KB50X45	-220788,1	-45047,87	-7934,16	-9849,52
K2D27	KB50X45	-152141,4	-22072,21	-2343,71	-5389,16
	KB50X45	-160413,6	-25608,21	-2343,71	-5389,16
K2D3	KB60X45	-1546,3	-190500	-23857,26	-10052,26
	KB60X45	-7546,3	-190500	-23857,26	-10052,26
K2D4	KB60X45	-1815496	-106510,7	-10926,37	-9056,5
	KB60X45	-1822970,3	-106510,7	-10926,37	-9056,5
K2D6	KB50X45	-311970	-53823,38	6651,15	-13960,05
	KB50X45	-329463,3	-53823,38	6651,15	-13960,05
K2D5	KB50X45	-1063241	-12507,8	7125,33	-7837,34
	KB50X45	-1209647	-12507,8	7125,33	-7837,34
K2D7	KB60X45	-86831,7	-9084,55	6845,44	-5868,19
	KB60X45	-87309,94	-9084,55	6845,44	-5868,19
K2D8	KB60X45	-1572490	-418608,1	-31907,16	-113346,56
	KB60X45	-1583822	-418608,1	-31907,16	-113346,56
K2D9	KB60X45	-1380984	-256	-22341,53	-111004,52
	KB60X45	-1387201	-356611,9	-28841,53	-114204,52
K2F1	KB60X45	-1309718	-355219,5	-4691,52	-15672,52
	KB60X45	-1316637	-355219,5	-4691,52	-15672,52
K2F10	KB50X45	-931076,9	-199271	2259,72	-39484,02
	KB50X45	-948769,2	-199271	2259,72	-39484,02
K2H11	KB60X45	-494144,1	-110891,8	-512,71	-14733,25
	KB60X45	-511587,4	-110891,8	-512,71	-14733,25
K2F12	KB50X45	-161899,5	-21410,91	-1296,38	342,42
	KB50X45	-168723	-21410,91	-1296,38	342,42
K2F2	KB60X45	-1097785	-288083,2	-5356,13	125041,08
	KB60X45	-1111567	-288083,2	-5356,13	125041,08
K2F3	KB60X45	-872919,7	-171068,9	-7360,67	84240,26
	KB60X45	-889813	-171068,9	-7360,67	84240,26
K2F4	KB60X45	-508563,2	-116704	-4364,58	47096,4
	KB60X45	-525856,5	-116704	-4364,58	47096,4
K2F5	KB60X45	-354012,9	-80229,22	-1703,17	18866,25
	KB60X45	-371316,27	-80229,22	-1703,17	18866,25
K2F6	KB60X45	-114464,7	-8180,02	-1478,06	2299,63
	KB60X45	-96461,33	-8180,02	-1478,06	2299,63
K2F7	KB60X45	-1592062	-402002,7	5333,9	-146583,77
	KB60X45	-1580950	-402002,7	5333,9	-146583,77
K2F8	KB50X45	-1419409	-345059,4	7069,37	-114097,93
	KB50X45	-1399627	-345069,4	7069,37	-114097,93
K2F9	KB60X45	-1173136	-287469,5	6684,66	-72230,97
	KB60X45	-1190628	-287469,5	6684,65	-72230,97
K2G1	KB50X45	-1250966	-265083,5	58567,2	168935,02
	KB60X45	-1239883	-265083,5	58567,2	168935,02
K2G10	KB50X45	-860684,1	-156077,6	6098,8	-2559,29
	KB50X45	-878177,4	-156077,6	6098,8	-2559,29
K2G11	KB60X45	-407603,7	-84218,05	6173,05	-1359,76
	KB60X45	-425103	-84218,05	6173,05	-1359,76
K2G12	KB60X45	-107456,4	-10873,03	2835,26	5137,32
	KB50X45	-125429,8	-10873,03	2835,26	5137,32
K2G2	KB60X45	-1032253	-213280,5	61065,26	132693,76
	KB50X45	-1048038	-213280,5	61065,26	132693,66

K2G5	KB60X45	-780179,8	-162456,7	37984,44	69178,5
	KB60X45	-797873,1	-162456,7	37984,44	69178,5
K2G4	KB60X45	-685821,9	-111241,7	31270,74	50729,8
	KB60X45	-683315,2	-111241,7	31270,74	50729,8
K2G5	KB60X45	-350549,9	-60618,49	8569,39	21686,83
	KB60X45	-366037,2	-60618,49	8569,39	21686,83
K2G6	KB60X45	-91171,95	-7947,71	-296,29	2943,91
	KB60X45	-109195,3	-7947,71	-296,29	2943,91
K2G7	KB60X45	-143807,3	-35307,5,3	203,38	6646,9
	KB60X45	-142644,1	-35307,5,3	203,38	-6646,9
K2G8	KB60X45	-120093,1	-29781,7,4	-12015,85	-4048,48
	KB60X45	-119514,9	-29781,7,1	-12015,85	-4048,48
K2G9	KB60X45	-918077,8	-227113,8	-1134,91	3074,05
	KB60X45	-933571,1	-227113,8	-1134,91	3074,05
K2K1	KB60X45	-1322112	-274700,2	-50641,01	168542,4
	KB60X45	-1210980	-264586,6	-50641,85	168542,4
K2K10	KB60X45	-630623,6	-154971,5	-5838,45	-2260,86
	KB60X45	-645123,8	-154971,5	-5838,45	-3260,86
K2K11	KB60X45	-374064,4	-84086,72	-5895,42	991,83
	KB60X45	-391557,7	-84086,72	-5895,42	991,83
K2K12	KB60X45	-109504,7	-10913,96	-2670,52	6402,64
	KB60X45	-127628,1	-10913,96	-2670,52	6402,64
K2K2	KB60X45	-1003470	-212867,8	-50946,24	133860,65
	KB60X45	-1017253	-212867,8	-50946,24	133860,65
K2K3	KB60X45	-750836	-162120,8	-37630,27	90099,73
	KB60X45	-768309,3	-162120,8	-37630,27	90099,73
K2K4	KB60X45	-535608,3	-111000,7	-31198,05	61287,45
	KB60X45	-553301,8	-111000,7	-31198,05	61287,45
K2K5	KB60X45	-320270,8	-60459,53	-8513,72	22103,49
	KB60X45	-337764,1	-60459,53	-8513,02	22103,49
K2K6	KB60X45	-91346,47	-7956,43	251,78	3002,09
	KB60X45	-109368,3	-7956,43	251,78	3002,09
K2K7	KB60X45	-1412366	-362970,6	-125,69	-855,23
	KB60X45	-1401223	-362970,6	-126,69	-855,23
K2K8	KB60X45	-1184312	-289886,6	12213,74	-4006,09
	KB60X45	-1170529	-289886,6	12213,74	-4006,09
K2K9	KB60X45	-688372,5	-227128	1305,05	3304,51
	KB60X45	-905865,8	-227128	1305,05	3304,51
K2L1	KB60X45	-589388,7	-57396,89	-98650,13	155661,42
	KB60X45	-588872,7	-57396,89	-98650,13	155661,42
K2L10	KB60X45	-1137618	-287950,1	-7449,48	-73206,07
	KB60X45	-1155111	-287950,1	-7443,48	-73206,07
K2L11	KB60X45	-798814,8	-199451,2	-2901,04	-40210,97
	KB60X45	-818388,1	-199451,2	-2901,04	-40210,97
K2L12	KB60X45	-461801,3	-111198	-78,15	-15102,25
	KB60X45	-479824,6	-111198	-78,15	-15102,25
K2L13	KB60X45	-151901,2	-21280,25	1198,99	389,27
	KB60X45	-169924,6	-21280,25	1198,99	389,27
K2L2	KB60X45	-1296386	-265246,4	4661,22	156893,3
	KB60X45	-1267,254	-265246,4	4661,22	158893,3
K2L3	KB60X45	-1066564	-228163,3	5278,87	128790,12
	KB60X45	-1080346	-228163,3	5278,87	128790,12
K2L4	KB60X45	-838977,6	-171264,9	7245,11	85371,61
	KB60X45	-856470,9	-171264,9	7245,11	85371,61
K2L5	KB60X45	-578450,2	-117012	4133,49	47674,24
	KB60X45	-595943,6	-117012	4133,49	47674,24
K2L6	KB60X45	-324313	-62682,78	1252,39	16346,98
	KB60X45	-341806,3	-62682,78	1252,39	16346,98
K2L7	KB60X45	-114235,6	-8091,26	1457,05	2459,89
	KB60X45	-96212,25	-8091,25	1457,05	2459,89
K2L8	KB60X45	-1578345	-402218,6	-6104,69	-148764,05
	KB60X45	-1567213	-402218,6	-6104,69	-148764,05
K2L9	KB60X45	-1399823	-345160,8	-7810,67	-115767,07
	KB60X45	-1385840	-345160,8	-7810,67	-115767,07

K2N1	KB50X45	-1177280	-271505,6	5609,64	-16501,97
	KB50X45	-1166148	-271506,6	5609,84	-16501,97
K2N10	KB50X45	-1121066	-301665,3	17887,7	-107737,04
	KB50X45	-1138552	-301665,3	17887,7	-107737,04
K2N11	KB50X45	-820808,2	-214735,7	13391,94	-64415,4
	KB50X45	-838501,5	-214735,7	13391,94	-64415,4
K2N12	KB50X45	-519396,7	-127886,6	10423,27	-30659,5
	KB50X45	-536890	-127886,6	10423,27	-30659,5
K2N13	KB50X45	-221921,8	-47319,74	6624,75	-11456,02
	KB50X45	-236562,5	-47319,74	6624,85	-11456,02
K2N14	KB50X45	-168706,8	-27539,16	-3320,86	-7354,77
	KB50X45	-184979,1	-27539,16	-3320,89	-7354,77
K2N2	KB50X45	-942726,8	-215410,2	-6629,39	-14166,24
	KB50X45	-960509,2	-215410,2	-6629,39	-14166,24
K2N3	KB50X45	-745202,2	-180941,7	-22724,3	-14043,32
	KB50X45	-732785,6	-180941,7	-22724,3	-14043,32
K2N4	KB50X45	-521887,1	-107442,1	-9799,43	3846,12
	KB50X45	-539601,4	-107442	-9799,43	3846,12
K2N5	KB50X45	-316298,5	-54624,66	-5539,5	9068,61
	KB50X45	-333791,8	-54624,66	-5539,5	9068,61
K2N6	KB50X45	-105137,5	-12099,33	-6981,17	6215,73
	KB50X45	-119768,3	-12099,33	-6981,17	6215,73
K2N7	KB50X45	-85081,86	-8803,89	-8211,66	5731,4
	KB50X45	-66384,11	-8803,89	-8211,66	5731,4
K2N8	KB50X45	-1667980	-423474	26792,47	-118495,3
	KB50X45	-1649848	-423474	26792,47	-118495,3
K2N9	KB50X45	-1366845	-361736,4	23077,85	-119350,17
	KB50X45	-1353062	-361736,4	23077,85	-119350,17
K2O1	KB50X45	587983,2	-91860,84	164255,5	158174,29
	KB50X45	576851,1	-91860,84	-164255,5	158174,29
K2O10	KB50X45	-318513,9	-54541,15	1174,56	7985,69
	KB50X45	-334007,2	-54541,15	1174,56	7985,69
K2O11	KB50X45	-116468,1	-18098,17	870,42	7903,37
	KB50X45	-131095,8	-18098,17	870,42	7903,37
K2O12	KB50X45	-12908,5	-3220,89	24462,07	-26609,43
	KB50X45	-1302007	-3220,89,8	24462,07	-26609,43
K2O13	KB50X45	-1151495	-275426,3	24293,42	-226826,44
	KB50X45	-1165278	-275426,3	24293,42	-226826,44
K2O14	KB50X45	-948914,9	-229603,3	22293,12	-170395,01
	KB50X45	-966406,2	-229603,3	22293,12	-170395,01
K2O15	KB50X45	-888750,8	-163678,7	10003,34	-89316,15
	KB50X45	-706243,9	-163678,7	10003,34	-89316,15
K2O16	KB50X45	-425710,4	-98369,21	1764,61	-32407,06
	KB50X45	-443203,7	-98369,21	-1764,61	-32407,06
K2O17	KB50X45	-177213,4	-32766,4	-2260,01	-3213,29
	KB50X45	-191944,1	-32766,4	-2260,01	-3213,29
K2O18	KB50X45	-60171,19	-15818,6	-23,63	2562,39
	KB50X45	-61443,43	-15818,6	-23,63	2562,39
K2O2	KB50X45	-483162,8	-88526,01	-11378,6	118787,93
	KB50X45	-496965,4	-88526,01	-11378,6	118787,93
K2O3	KB50X45	-366481,6	-52021,12	-50772,43	71442,23
	KB50X45	-372974,9	-52021,12	-50772,43	71442,23
K2O4	KB50X45	-194710,8	-32853,78	-32200,09	42973,44
	KB50X45	-212204,1	-32853,78	-32200,09	42973,44
K2O5	KB50X45	-92033,18	-13979,66	-10639,28	20369,76
	KB50X45	-109726,5	-13979,66	-10639,26	20369,76
K2O6	KB50X45	-1190639	-244036	126937,1	14522,75
	KB50X45	-1179507	-244036	126937,1	14522,75
K2O7	KB50X45	-988692	-193524,9	92323,92	15191,04
	KB50X45	-1003575	-193524,9	92323,92	15191,04
K2O8	KB50X45	-751116,6	-143072,7	50200,6	17216,81
	KB50X45	-768809,8	-143072,7	50200,6	17216,81
K2O9	KB50X45	-507072,3	-99235,43	20636,54	10513,36
	KB50X45	-525169,8	-99239,43	20636,54	10513,36

K2P1	KB50X45	-639936	-60963,06	-240821,8	366512,77
	KB50X45	-618865,3	-60963,06	-240821,8	366512,77
K2P10	KB50X45	-568567,1	-57781,7	-62211,33	-50607,68
	KB50X45	-386060,4	-57781,7	-62211,33	-50607,68
K2P11	KB50X45	-223995,8	-31054,2	-25866,45	-14979,8
	KB50X45	-241089,1	-31054,2	-25866,48	-14979,8
K2P12	KB50X45	-92799,82	-4051,26	-6908,25	2857,05
	KB50X45	-107430,6	-4051,29	-6908,25	2857,04
K2P13	KB50X45	-19605,36	-3603,26	-1106,52	7364,26
	KB50X45	20377,89	-3603,26	-1106,52	7364,26
K2P2	KB50X45	-526861,5	60374,41	-130632,1	395472,90
	KB50X45	-540131,1	-60374,41	-130632,1	395472,90
K2P3	KB50X45	-409010,4	-36833,81	-129528,6	185969,36
	KB50X45	-426903,7	-36833,81	-129528,6	185969,36
K2P4	KB50X45	-304120,8	-23099,68	-69496,1	58012,93
	KB50X45	-301619,1	-23099,68	-69496,1	58012,93
K2P5	KB50X45	-66390,1	-9904,86	-26446,26	34847,89
	KB50X45	-65891,5	-9904,86	-26446,26	34847,89
K2P6	KB50X45	-62201,8	-3620,96	-3618,55	4077,87
	KB50X45	-76632,36	-3620,96	-3618,55	4077,87
K2P7	KB50X45	-765391,5	-134639,4	-215161,4	-227549,17
	KB50X45	-752259,4	-134639,4	-215161,4	-227549,17
K2P8	KB50X45	-857176,7	-109775,2	-169856,8	-170400,79
	KB50X45	-670989,3	-109775,2	-169856,8	-170400,79
K2P9	3KB45X45	-510185,3	-83939,11	-113378,2	-99524,98
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K3A1	3KB45X45	-600891,9	-57600,49	9861,18	156346,87
	3KB45X45	-590196,3	-57600,49	9861,18	156346,87
K3A10	3KB45X45	276096,9	-9709,57	22397,73	45702,56
	3KB45X45	-292796	-19700,57	-22397,03	45702,56
K3A11	3KB45X45	-106264,5	990,07	-9533,13	17220,99
	3KB45X45	-120635,8	990,07	-9533,13	17220,99
K3A12	3KB45X45	-31309,66	53,9	-3401,03	4445,09
	3KB45X45	-19811,99	53,9	-3401,03	4445,09
K3A2	3KB45X45	-561530,5	-57635,8	76274,57	137585,45
	3KB45X45	-564889,1	-57635,8	76274,57	137585,45
K3A3	3KB45X45	-472372,2	-39377,09	44603,94	109293,96
	3KB45X45	-493841,2	-39377,09	44603,94	109293,96
K3A4	3KB45X45	-276114,2	-19667,53	22375,27	45675,94
	3KB45X45	-292812,4	-19667,53	22375,27	45675,94
K3A5	3KB45X45	-106461,8	943,56	9606,41	17091,03
	3KB45X45	-121013,1	943,56	9606,41	17091,03
K3A6	3KB45X45	-19901,03	90,95	3389,33	4396,67
	3KB45X45	-21398,9	90,95	3389,33	4396,67
K3A8	3KB45X45	-550610,9	-57499,58	-76237,61	137104,59
	3KB45X45	-552060,1	-57499,58	-76237,61	137104,59
K3A9	3KB45X45	-472079,8	-39356,57	-44584,16	109073,4
	3KB45X45	-493548,8	-39356,57	-44584,16	109073,4
K3I1	3KB45X45	-461205	-111624,9	406,83	20831,46
	3KB45X45	-461196,2	-111624,9	406,83	20831,46
K3I2	3KB45X45	-254432,3	-71732,72	2,17	-576,67
	3KB45X45	-266836,7	-71732,72	-2,17	-576,67
K3I3	3KB45X45	-459532,4	-115618,2	92,68	-682,71
	3KB45X45	-469651,3	-115618,2	92,68	-682,71
K3I4	3KB45X45	-300467,9	-57926,83	63,1	22805,61
	3KB45X45	-288063,6	-57926,83	63,1	22805,61
K4C1	4KB30X30	-239686,5	-16692,29	84680,27	167456,02
	4KB30X30	-228808,6	-16692,29	84680,27	167456,02
K4C2	4KB30X30	-227688	-17133,45	85152,15	137799,13
	4KB30X30	-221538,6	-17133,45	85152,15	137799,13
K4C3	4KB30X30	-199804,1	-11196,47	65467,07	99896,71
	4KB30X30	-207331,5	-11196,47	65467,07	99896,71
K4C4	4KB30X30	-42068,47	-7104,9	30221,56	40800,78
	4KB30X30	-50281,87	-7104,9	30221,56	40800,78

K4L5	4KB30X30	-27770,72	-5334,56	11919,23	11776,32
	4KB30X30	35192,13	-3834,36	11919,53	11776,32
K4D1	4KB30X30	-233106,2	-10491,67	-56708,01	188987,42
	4KB30X30	-237382,1	-10491,67	-56708,01	188987,42
K4D2	4KB30X30	-236507,8	-12852,96	-58945,29	194460,95
	4KB30X30	-230383,4	-12852,96	-58945,29	194460,95
K4D3	4KB30X30	-211282,3	-9364,44	-42103,61	113414,34
	4KB30X30	-218609,7	-9364,44	-42103,61	113414,34
K4D4	4KB30X30	57447,41	-7351,16	-17416,49	54032,49
	4KB30X30	-64868,5	-7351,16	-17416,49	54032,49
K4D5	4KB30X30	37808,99	-4889,16	4058,06	16145,55
	4KB30X30	-49230,39	-4889,16	-4058,097	16145,55
K4E1	4KB30X30	-36906,45	278,03	1107,51	-137,69
	4KB30X30	-24315,15	278,03	1107,51	-137,69
K4F2	4KB30X30	-22441,21	433,54	1061,26	219,67
	4KB30X30	-25031,01	433,54	1061,26	219,67
K4F1	4KB30X30	-46268,42	61,98	-615,14	210,82
	4KB30X30	-44709,17	61,98	-615,14	210,82
K4F2	4KB30X30	-49980,82	-1858,96	-843,57	-2187,86
	4KB30X30	-51653,11	-1858,96	-843,57	-2187,86
K4G1	4KB30X30	-40650,44	140,38	-160,76	2245,69
	4KB30X30	-42240,74	140,39	-160,75	2245,69
K4G2	4KB30X30	-39196,02	293,45	446,18	-2279,07
	4KB30X30	-40796,32	293,45	446,16	-2279,07
K4H1	4KB30X30	-90496,02	-3370	-826,19	-4874,29
	4KB30X30	-90996,32	-3370	-826,19	-4874,29
K4H2	4KB30X30	2678,52	3525,31	968,45	5472,75
	4KB30X30	1088,22	3525,31	968,45	5472,75
K4H3	4KB30X30	1388,45	1660,17	2,72	1047,9
	4KB30X30	-201,85	1660,17	2,72	-1047,9
K4H4	4KB30X30	-99617,15	-2048,66	-473,82	502,31
	4KB30X30	-95207,44	-2048,66	-473,82	502,31
K4J1	4KB30X30	-90159,89	-3363,4	826,21	-4999,58
	4KB30X30	-91780,29	-3363,4	826,21	-4999,58
K4J2	4KB30X30	459,65	3496,08	-973,22	5535,43
	4KB30X30	2060,05	3496,08	-973,22	5535,43
K4J3	4KB30X30	6551,35	2166,14	-389,43	1023,11
	4KB30X30	4951,05	2166,14	-389,43	1023,11
K4J4	4KB30X30	-98276,07	-2522,45	834,71	-1546,13
	4KB30X30	-99886,38	-2522,45	834,71	-1546,13
K4K1	4KB30X30	-42160,79	145,06	162,12	2300,26
	4KB30X30	-40670,45	145,06	162,12	2300,26
K4K2	4KB30X30	-39400,78	300,78	-505,18	-2307,37
	4KB30X30	-40991,04	300,78	-505,18	-2307,37
K4L1	4KB30X30	-45396,31	126,93	-513,2	2233,59
	4KB30X30	-44481,91	126,93	-513,2	2233,59
K4L2	4KB30X30	-49985,66	-1119,05	790,93	-2316,95
	4KB30X30	-51575,96	-1119,06	790,93	-2316,96
K4M1	4KB30X30	-29047,02	262,31	-1098,87	-191,75
	4KB30X30	-24456,72	262,31	-1098,87	-191,75
K4M2	4KB30X30	-23636,8	494,38	-964,11	263,2
	4KB30X30	-25129,1	494,38	-964,11	263,2
K4N1	4KB30X30	-233402,2	-8123,51	66969,99	195840,95
	4KB30X30	-228625,3	-8123,51	66969,99	195840,95
K4N2	4KB30X30	-232082,7	-10607,84	59221,3	162586,1
	4KB30X30	-225833,6	-10607,84	59221,3	162586,1
K4N3	4KB30X30	-207724	-7009,79	42337,14	120421,13
	4KB30X30	-215251,4	-7009,79	42337,14	120421,13
K4N4	4KB30X30	-47233,23	-5027,85	17520,61	59714,19
	4KB30X30	-54654,53	-5027,85	17520,61	59714,19
K4N5	4KB30X30	-30291,83	-2522,72	4003,66	21137,19
	4KB30X30	-37713,23	-2522,72	4003,66	21137,19
K4O1	4KB30X30	-220224,5	-14797,02	-84709,41	175187,21
	4KB30X30	-225447,6	-14797,02	-84709,41	175187,21

K4C2	K4B60X30	-222523,8	-15266,61	-86191,06	144261,4
	K4B40X30	-216174,7	-15268,61	-85181,06	144261,4
K4C3	K4B60X30	-199010,6	-9527,05	-86578,21	104871,73
	K4B30X30	-202538,3	-9537,05	-86578,21	104871,73
K4C4	K4B30X30	-38934,26	-6097,58	-30196,67	51362,55
	K4B30X30	-47555,65	-6097,58	-30196,67	51362,55
K4C5	K4B30X30	-26693,82	-3055,77	-11862,02	12398,25
	K4B30X30	-34004,72	-3045,77	-11862,02	12398,25
K5A1	K30X25	-330893,6	-36196,04	102340,3	-135744,01
	K30X25	-238758,7	-28198,04	102340,3	-135744,01
K5A2	K30X25	-164582,2	-21300,26	83387,96	-111429,83
	K30X25	-194716,5	-21300,26	83387,96	-111429,83
K5A3	K30X25	-140160	-14902,96	55446,58	-80774,36
	K30X25	-146422,8	-14902,96	55446,58	-80774,36
K5A4	K30X25	-99202,02	-11526,42	26017,36	-47542,05
	K30X25	-106817	-11526,45	26017,36	-47542,05
K5A5	K30X25	-5548,59	-6893,34	7785,22	-16781,4
	K30X25	-10251,44	-6893,34	7785,22	-16781,4
K5A6	K30X25	-7847,11	-3569,88	815,06	-6305,89
	K30X25	-14131,7	-3569,88	815,06	-6305,89
K5A7	K30X25	-47464,85	-4791,27	16674,03	-6081,54
	K30X25	-62059,06	-4791,27	16674,03	-6081,54
K5B1	K30X25	-361542,4	-68696,03	20322,58	-129178,15
	K30X25	-366429,8	-68696,03	20322,58	-129178,15
K5B10	K30X25	-112235,5	-26034,66	815,72	-138938,53
	K30X25	-119500	-26034,66	911,72	-138938,53
K5B11	K30X25	-45108,72	-536,59	5772,34	-10611,65
	K30X25	-50162,34	-536,59	5772,34	-10611,65
K5B12	K30X25	-34134,91	-12831,96	2557,05	-5697,48
	K30X25	-40869,41	-12831,96	2557,05	-5697,48
K5B2	K30X25	-337919,2	-54136,19	-42692,91	-137349,7
	K30X25	-341363,3	-54136,19	-42692,91	-137349,7
K5B3	K30X25	-298190,1	-53884,42	-10831,42	814,56
	K30X25	-300077,7	-53884,42	-10831,42	814,56
K5B4	K30X25	-294086,4	-56317,99	-40261,76	-117775,88
	K30X25	-299210,2	-56317,99	-40261,76	-117775,88
K5B5	K30X25	-23011,2	-40821,43	109,22	-7645,74
	K30X25	-286298,8	-40821,43	109,22	-7645,74
K5B6	K30X25	-257017	-54572,19	-31412,49	-95809,46
	K30X25	-263289,8	-54572,19	-31412,49	-95809,46
K5B7	K30X25	-166528,3	-27198,62	7318,32	-17136,62
	K30X25	-174715,3	-27198,62	7318,32	-17136,62
K5B8	K30X25	-198715,1	-39799,35	-10091,18	-80766,14
	K30X25	-199999,6	-39799,35	-10091,18	-80766,14
K5B9	K30X25	-103887,2	-14010,81	9937,83	-18812,91
	K30X25	-109771,7	-14010,81	9937,83	-18812,91
K5C1	K30X25	-90250,21	-30700,1	-16175,74	-56364,42
	K30X25	-103314,3	-30700,1	-16175,74	-56364,42
K5C2	K30X25	-50734,43	-16250,09	-9612,71	-27968,61
	K30X25	-58518,53	-16250,09	-9612,71	-27968,61
K5D1	K30X25	-60403,91	-12769,77	-17355,86	-56921,26
	K30X25	-64468,01	-12769,77	-17355,86	-56921,26
K5D2	K30X25	-23087,57	-6810,19	-6794,84	-27246,53
	K30X25	-28221,87	-6810,19	-6794,84	-27246,53
K5G1	K30X25	-300952,4	-77242,85	25203,18	-186528,07
	K30X25	-296868,3	-77242,85	25203,18	-186528,07
K5G2	K30X25	-260084,6	-71592,84	11746,96	-166423,74
	K30X25	-265208,3	-71592,84	11746,96	-166423,74
K5G3	K30X25	-235692,4	-65539,14	2973,02	-119626
	K30X25	-241865,3	-65539,14	2973,02	-119626
K5G4	K30X25	-172634,1	-47497,54	2453,12	-86085,39
	K30X25	-178716,6	-47497,54	2453,12	-86085,39
K5G5	K30X25	-100160,6	-28568,3	2056,88	-30136,04
	K30X25	-112353,1	-28568,3	2056,88	-30136,04

K5G6	K30X25	-43441,16	-13525,44	1801,01	-12823,33
	K30X25	-55825,65	-13329,44	1801,01	-12823,03
K5H1	K30X25	-313653,4	-76295,74	34114,35	-302237,66
	K30X25	-311589,3	-76295,74	34114,35	-302239,66
K5I12	K30X25	-272150,3	-68361,9	49441,74	-273220,57
	K30X25	-257275,2	-68361,9	49441,74	-273200,57
K5H3	K30X25	-743514,1	-85475,26	37268,55	-124787,39
	K30X25	-249787	-85475,26	37268,55	124787,39
K5H4	K30X25	-169040,8	-43357,49	21059,77	-36246,26
	K30X25	-174224,9	-43357,49	21059,77	-36246,26
K5H5	K30X25	-34999,48	-22556,45	7630,69	-5494,43
	K30X25	-101994	-22556,45	7630,69	-5494,43
K5H6	K30X25	-44802,34	-8627,2	-3179,94	506,55
	K30X25	-50366,64	-8627,2	-3176,94	506,55
K5J17	K30X25	-270527,5	-76004,45	-34241,06	-302392,16
	K30X25	-311263,8	-76564,46	-34241,06	-302392,16
K5J18	K30X25	-271345,6	-68815	49548,79	-273014,55
	K30X25	-256470,5	-68815	-49542,79	-273024,55
K5J19	K30X25	-740286,5	-85483,93	-37285,56	-124986,67
	K30X25	-249571,5	-85483,93	-37285,56	-124986,67
K5J20	K30X25	-168663,3	-43519,94	-21202,12	-34998,68
	K30X25	-174737,9	-43519,94	-21202,12	-34998,68
K5J21	K30X25	-95685,9	-22984,64	-7390,37	-5866,28
	K30X25	-101790,4	-22984,64	-7390,37	-5866,28
K5J22	K30X25	-42736,92	-9143,55	3435,36	-1699,4
	K30X25	-21921,41	-9143,55	3435,36	-1699,4
K5K1	K30X25	-398721,6	-77064,99	-26321,76	-107118,99
	K30X25	-396857,5	-77064,99	-26321,76	-187118,99
K5K2	K30X25	-259491	-71548,61	-11856,99	-156874,18
	K30X25	-264515,3	-71548,61	-11856,99	-156874,18
K5K3	K30X25	-235794	-65584,42	-3062,96	-120864,17
	K30X25	-242867,2	-65584,42	-3062,96	-120864,17
K5K4	K30X25	-173925,4	-47578,08	-2804,33	-66974,56
	K30X25	-179609,9	-47578,08	-2804,33	-66974,56
K5K5	K30X25	-104462,8	-28608,93	-2096,76	-30755,04
	K30X25	-115867,3	-28608,93	-2096,76	-30755,04
K5K6	K30X25	-47379,01	-13356,78	-1683,43	-13157,34
	K30X25	-53563,51	-13356,78	-1683,43	-13157,34
K5N1	K30X25	-53172,36	-12357,47	16905,07	-66933,21
	K30X25	-57236,46	-12357,47	16905,07	-66933,21
K5N2	K30X25	-25806,66	-6645,94	6426,79	-28263,18
	K30X25	-30490,96	-6645,94	6426,79	-28263,18
K5O1	K30X25	-104779,5	-37039,15	745,35	-55694,4
	K30X25	-113943,7	-37039,15	745,35	-55694,4
K5O2	K30X25	-53345,96	-14881,8	2813,13	-26049,31
	K30X25	-58871,26	-13881,8	2813,13	-26049,31
K5P1	K30X25	-214884,1	-55954,94	-43618,4	-156814,39
	K30X25	-218658,2	-55954,94	-43618,4	-156814,39
K5P2	K30X25	-186652,4	-48467,23	-34402,5	-139840,28
	K30X25	-191776,7	-48467,23	-34402,5	-139840,28
K5P3	K30X25	-157381,1	-40916,83	-23963,79	-103341,88
	K30X25	-163664	-40916,83	-23963,79	-103341,88
K5P4	K30X25	-115831,7	-30341,18	-14125,48	-68196,19
	K30X25	-122016,2	-30341,18	-14125,48	-68196,19
K5P5	K30X25	-73358,74	-19816,66	-6868,03	-25248,72
	K30X25	-79543,24	-19816,66	-6868,03	-25248,72
K5P6	K30X25	-28482,75	-9613,66	-2192,83	-8773,56
	K30X25	-36687,25	-9613,66	-2192,83	-8773,56
K6H1	6K30X60	-1117931	-241422,3	26154,58	-160221,19
	6K30X60	-1110610	-241422,3	26151,58	-160221,19
K6H2	6K30X60	-930263,4	-176258,9	26047,36	-148106,9
	6K30X60	-939451,8	-176258,9	26047,36	-148106,9
K6I10	6K30X60	-704402,9	-117930,2	33040,7	-98422,98
	6K30X60	-715125	-117930,2	33040,7	-98422,98

K5H4	BK30X50	-337587,4	-95401,42	47271,19	-90804,56
	BK30X50	599001	-95401,42	47271,19	-90804,56
K5H5	BK30X50	-424521,2	-95644,66	-6548,65	-22419,54
	BK30X50	-433005,8	-95644,66	-6548,65	-22419,54
K5H6	BK30X50	-318940,3	-42799,01	6836,08	-16807,95
	BK30X50	-300053,9	-42799,01	6836,08	-16807,95
K5H7	BK30X50	-147432,7	-17195,63	-4562,85	9879,93
	BK30X50	-155804,3	-17195,63	-4562,85	9879,93
K5H8	BK30X50	-34560,14	4636,9	4344,45	2968,93
	BK30X50	-44303,86	4636,9	4344,45	2968,93
K5H9	BK30X50	-16122,24	4462,82	997,03	11150,04
	BK30X50	-17070,41	4462,82	997,03	11150,04
K6J1	BK30X50	-1118806	-242362,5	-26169,8	-163869,96
	BK30X50	-1112366	-242362,5	-26169,8	-163869,96
K6J2	BK30X50	-920704,3	-175229,0	-22645,2	-143635,8
	BK30X50	-937952,6	-176229,8	-25040,3	-149635,8
K6J3	BK30X50	-743171,8	-117866,3	-33303,1	-98669,96
	BK30X50	-714634	-117866,3	-33303,1	-98669,96
K6J4	BK30X50	-965311,3	-95243,04	-47185,59	-92124,54
	BK30X50	-597324,9	-95243,04	-47185,59	-92124,54
K6J5	BK30X50	-434076	-65903,54	6686,52	-24420,67
	BK30X50	-432567,6	-65903,54	6686,52	-24420,67
K6J6	BK30X50	-318390,6	-43151,12	-8150,93	-19200,52
	BK30X50	-319804,2	-43151,12	-8150,93	-19200,52
K6J7	BK30X50	-147720,4	-17858,12	4759,52	7459,22
	BK30X50	-169302	-17858,12	4759,52	7459,22
K6J8	BK30X50	-34415,95	4163,36	-4154,28	910,56
	BK30X50	-44189,79	4163,36	-4154,28	910,56
K6J9	BK30X50	15883,24	4119,13	844,49	8791,87
	BK30X50	-16731,4	4110,13	-844,48	8791,87

Keterangan Lampiran Gaya Aksial Kolom

1. Frame yang ditinjau
2. Elemen yang ditinjau
3. ND = Gaya aksial kolom akibat beban mati
4. NL = Gaya aksial kolom akibat beban hidup
5. Nex = Gaya aksial kolom akibat beban gempa sejajar sb - x
6. Ney = Gaya aksial kolom akibat beban gempa sejajar sb - y

Lampiran Gaya Geser Kolom

ELEMEN	Letak	ln	Loc	Sejajar Sumbu-y				Sejajar Sumbu-x			
				VD (N)	VL (N)	Vexka (N)	Vexki (N)	VD (N)	VL (N)	Vexka (N)	Vexki (N)
1	2	3	4	5	6	7	8	9	10	11	12
1K50X50	atas	2100	250	-11579,8	-4195,67	1988,04	90546,85	627,36	387,66	94604,42	-1551,73
1K50X50	bawah		2350	-11579,8	-4195,67	1988,04	90546,85	627,36	387,66	94604,42	-1551,73
1K50X50	atas	2100	250	13729,47	5228,48	2436,21	96007,83	1693,25	-165,95	94096,47	-322,74
1K50X50	bawah		2350	13729,47	5228,48	2436,21	96007,83	1693,25	-165,95	94096,47	-322,74
1K50X50	atas	2600	350	21082,96	8112,11	4361,13	109423,9	8030,36	475,22	133707,81	-663,84
1K50X50	bawah		2950	21082,96	8112,11	4361,13	109423,9	8893,36	575,22	133707,81	-663,84
1K50X50	atas	3300	350	36283,89	7767,06	6272,79	126005,6	-9263,73	-2414,26	-171900,9	427,02
1K50X50	bawah		3650	36283,89	7767,06	6272,79	126005,61	-9263,73	-2414,26	-171900,9	427,02
1K50X50	atas	3300	350	31362,58	5436,43	2537,64	52490,71	-10663,5	-4041,93	-136015,8	-86,57
1K50X50	bawah		3650	31362,83	5436,43	2537,64	52490,71	-10663,5	-4041,93	-136015,8	-86,57
1K50X50	atas	3600	350	-10088,3	-3781,45	1228,81	77052,38	-2433,93	-588,2	-76968,01	3195,46
1K50X50	bawah		3950	-10088,3	-3781,45	1228,81	77052,38	-2433,93	-588,2	-76968,01	3195,46
1K50X50	atas	3300	350	9566,33	3023,63	2804,71	89827,28	2708,88	828,34	91217,46	855,52
1K50X50	bawah		3650	9566,33	3023,63	2804,71	89827,28	2708,88	828,34	91217,46	855,52
1K50X50	atas	400	250	-4213,37	-1352,41	12096,59	58015,73	-2450,99	-1482,92	-129859,8	6913,9
1K50X50	bawah		650	-4213,37	-1352,41	12096,59	58015,73	-2450,99	-1482,92	-129859,8	6913,9
1K50X50	atas	2400	350	18590,21	6994,65	3846,41	117664,1	16256,35	5792,66	-145125,6	2039,85
1K50X50	bawah		2750	18590,21	6994,65	3846,41	117664,1	16256,35	5792,66	-145125,6	2039,85
1K50X50	atas	2100	250	-11468,1	-4059,2	-1949,41	91420,23	-2447,7	-1301,48	94349,35	2406,84
1K50X50	bawah		2350	-11468,1	-4059,2	-1949,41	91420,23	-2447,7	-1301,48	94349,35	2406,84
1K50X50	atas	2100	250	13194,84	5081,34	-2396,95	86089,52	-4705,12	-589,67	93961,56	-279,54
1K50X50	bawah		2350	13194,84	5081,34	-2396,95	86089,52	-4705,12	-589,67	93961,56	-279,54
1K50X50	atas	2600	350	20663,73	8032,2	-4306,1	109852,3	-13185,2	-1980,42	133907,83	151,72
1K50X50	bawah		2950	20663,73	8032,2	-4306,1	109852,3	-13185,2	-1980,42	133907,83	-151,72
1K50X50	atas	3300	350	35894,56	7747,13	-6187,87	126754	15035,92	3987,32	-171919,5	590,76
1K50X50	bawah		3650	35894,56	7747,13	-6187,87	126754	15035,92	3987,32	-171919,5	590,76
1K50X50	atas	3300	350	30472,62	5254,89	-2489,65	52707,7	15284,85	5106,74	-136328,2	996,91
1K50X50	bawah		3650	30472,62	5254,89	-2489,65	52707,7	15284,85	5106,74	-136328,2	996,91
1K50X50	atas	2600	350	13053,5	-3706,58	-1192,2	77596,53	3655,89	838,82	-76687,61	-3801,34
1K50X50	bawah		2950	-13053,5	-3706,58	-1192,2	77596,52	3655,89	838,82	-76687,61	-3801,34
1K50X50	atas	2400	350	9206,52	2965,98	-2547,41	90215,19	3968,71	1078,14	-91217,85	-1505,3
1K50X50	bawah		2750	9206,52	2965,98	-2547,41	90216,19	3968,71	1078,14	-91217,85	-1505,3
1K50X50	atas	400	250	-1096,31	-622,95	-12046,3	58662,46	9392,89	3041,29	-129084,5	-6835,22
1K50X50	bawah		650	-1096,31	-622,95	-12046,3	58662,46	9392,89	3041,29	-129084,5	-6835,22
1K50X50	atas	2400	350	16374,64	6506,7	-3770,4	117782,6	-18098	-5620,05	-144990,4	-3307,85
1K50X50	bawah		2750	16374,64	6506,7	-3770,4	117782,6	-18098	-5620,05	-144990,4	-3307,85
KB50X45	atas	2100	250	-10566,5	-1521,12	245,19	78812,29	-11315,2	-2534,42	56015,62	-531,41
KB50X45	bawah		2350	-10566,5	-1521,12	245,13	78812,29	-11315,2	-2534,42	56015,62	-531,41
KB50X45	atas	2100	250	12891	2833,06	-6131,61	81189,77	-5792,22	-1991,7	62505,25	784,74
KB50X45	bawah		2350	12891	2833,06	-6131,61	81189,77	-5792,22	-1991,7	62505,25	784,74
KB50X45	atas	2600	350	-9851,54	-1809,53	-512,49	66746,78	12921,45	2953,58	-50718,61	682,14
KB50X45	bawah		2950	-9851,54	-1809,53	-512,49	66746,78	12921,45	2953,58	-50718,61	682,14
KB50X45	atas	3300	350	9600,47	2575,24	-4183,82	73753,91	8286,53	2407,17	-44976,62	-1848,65
KB50X45	bawah		3650	9600,47	2575,24	-4183,82	73753,91	8286,53	2407,17	-44976,62	-1848,65
KB50X45	atas	3300	350	-4642,21	-832,89	541,84	68510,94	13174,85	2606,41	-48945,27	1179,29
KB50X45	bawah		3650	-4642,21	-832,89	541,84	68510,94	13174,85	2606,41	-48945,27	1179,29
KB50X45	atas	2600	350	7268,7	2291,84	-440,01	77398,02	8461,98	2429,49	-48168,36	-2116,65
KB50X45	bawah		3650	7268,7	2291,84	-440,01	77398,02	8461,98	2429,49	-48168,36	-2116,65
KB50X45	atas	2100	250	-5084,22	1400,11	-506,27	81362,73	-9863,8	-2851,52	58177,99	-328,44
KB50X45	bawah		2350	-5084,22	1400,11	-506,27	81362,73	-9863,8	-2851,52	58177,99	-328,44
KB50X45	atas	2100	250	10921,6	3833,28	535,73	81016,79	-5666,79	-2314,04	62691,26	-1003,05
KB50X45	bawah		2350	10921,6	3833,28	535,73	81016,79	-5666,79	-2314,04	62691,26	-1003,05
KB50X45	atas	2600	350	17304,93	5001,4	1866,35	75778,68	7789,44	2937,72	-76385,15	1910,03
KB50X45	bawah		2950	17304,93	5001,4	1866,35	75778,68	7789,44	2937,72	-76385,15	1910,03
KB50X45	atas	3300	350	12000,41	3053,54	878,46	72000,04	6525,11	2954,42	-73639,98	2134,46
KB50X45	bawah		3650	12000,41	3053,54	878,46	72000,04	6525,11	2954,42	-73639,98	2134,46
KB50X45	atas	2600	350	-10209,1	-2289,49	-925,86	76609,23	14848,65	3516,26	-49686,11	821,22
KB50X45	bawah		2950	-10209,1	-2289,49	-928,86	76600,23	14848,65	3516,26	-49686,11	821,22
KB50X45	atas	3300	350	-9553,131	-947,86	-1356,1	78604,29	-53,87	2913,94	-46796,96	700,49
KB50X45	bawah		3650	-9553,13	-947,86	-1356,1	78604,29	-53,87	2913,94	-46796,96	700,49
KB50X45	atas	2100	250	-2562,51	-1250,32	-2077,06	100914,4	-1137,64	-2001,38	63037,88	-870,23
KB50X45	bawah		2350	-2562,51	-1250,32	-2077,06	100914,4	-1137,64	-2001,38	63037,88	-870,23
KB50X45	atas	2600	250	-5777,5	-2193,31	-2956,49	100677,3	1284,22	2250,69	-62074,14	1175,75
KB50X45	bawah		2950	-5777,5	-2193,31	-2956,49	100677,3	1284,22	2250,69	-62074,14	1175,75
KB50X45	atas	3300	350	-212,81	-404,24	-2622,04	101303,2	-867,76	2228,72	-57437,49	1109,83
KB50X45	bawah		3650	-212,81	-404,24	-2622,04	101303,2	-867,76	2228,72	-57437,49	1109,83
KB50X45	atas	2100	350	-41806,4	-15952,7	522,5	70184,47	3975,72	1056,04	-81563,44	-143,92
KB50X45	bawah		2450	-41806,4	-15952,7	522,5	70184,47	3975,72	1056,04	-81563,44	-143,92
KB50X45	atas	3300	350	43228,43	13185,15	1261,26	62957,26	4857,43	1083,87	-78512,18	-337,49
KB50X45	bawah		3650	43228,43	13185,15	1261,26	62957,26	4857,43	1083,87	-78512,18	-337,49
KB50X45	atas	2600	350	-57995,5	-22268	-343,14	67115,36	2304,26	1225,54	-86801,7	-298,67
KB50X45	bawah		2950	-57995,5	-22268	-343,14	67115,36	2304,26	1225,54	-86801,7	-298,67
KB50X45	atas	3300	350	-44366,4	-13841,2	-1152	72464,97	9000,73	1207,27	-76534,9	31,89
KB50X45	bawah		3650	-44366,4	-13841,2	-1152	72464,97	9000,73	1207,27	-76534,9	31,89

KB50X45	atas	2100	2350	43213,85	15829,55	3005,05	70425,19	2684,86	599,97	-85317,23	-12,37
KB50X45	bawah		2450	43213,85	15829,55	3005,05	70425,19	2684,86	599,97	-85317,23	-12,37
KB50X45	atas	2600	2950	57520,24	21481,37	3589,6	57038,28	-2270,82	-217,47	79029,05	223,45
KB50X45	bawah		3050	57520,24	21481,37	3589,6	57038,28	-2270,82	-217,47	79029,05	223,45
KB50X45	atas	2100	2350	-48774,3	-18313,4	1628,79	54423,68	-987,65	-242,49	81158,3	582,06
KB50X45	bawah		2450	-48774,3	-18313,4	1628,79	54423,68	-987,65	-242,49	81158,3	582,06
KB50X45	atas	2600	2950	-63375,7	-24986,4	1824,74	64549,44	732,63	5,93	-82650,19	-1047,34
KB50X45	bawah		3050	-63375,7	-24986,4	1824,74	64549,44	732,63	5,93	-82650,19	-1047,34
KB50X45	atas	3300	3650	-51968	-16440,9	473,74	59966,82	912	200,66	-80633,4	-1118,4
KB50X45	bawah		3650	-51968	-16440,9	473,74	59966,82	912	200,66	-80633,4	1118,4
KB50X45	atas	2100	2350	52029,07	19954,51	1660,13	64362,86	-1080,74	-322,8	85781,43	-215,89
KB50X45	bawah		2350	52029,07	19954,51	1660,13	64362,86	-1080,74	-322,8	85781,43	-215,89
KB50X45	atas	2600	2950	68686,41	25427,04	1203,66	65008,96	-759,7	-22,82	76903,41	-48,64
KB50X45	bawah		2950	68686,41	25427,04	1203,66	65008,96	-759,7	-22,82	76903,41	-48,64
KB50X45	atas	3300	3650	52186,34	16288,44	1210,47	61396,84	296,86	-91,97	78521,31	-459,36
KB50X45	bawah		3650	52186,34	16288,44	1210,47	61396,84	296,86	-91,97	-78521,31	-459,36
KB50X45	atas	2100	2350	-36167,4	-13502,8	3024,01	68024,21	1293,04	515,53	82456,12	516,6
KB50X45	bawah		2350	-36167,4	-13502,8	3024,01	68024,21	1293,04	515,53	82456,12	516,6
KB50X45	atas	2600	2950	-65137,4	-20652	3026,9	64863,77	-2767,75	-1269,98	-85162	-955,64
KB50X45	bawah		2950	-65137,4	-20652	3026,9	64863,77	-2767,75	-1269,98	-85162	-955,64
KB50X45	atas	3300	3650	-46755	-14067,6	2642,27	58304,44	-1097,47	-284,86	-83239,86	-567,62
KB50X45	bawah		3650	-46755	-14067,6	2642,27	58304,44	-1097,47	-284,86	-83238,86	-567,62
KB50X45	atas	2100	2350	43484,74	15809,96	536,57	75607,25	-2764,38	-225,67	91537,65	57,06
KB50X45	bawah		2350	43484,74	15809,96	536,57	75607,25	-2764,38	-225,67	91537,65	57,06
KB50X45	atas	2600	2950	74076,57	22943,06	-425,52	76997,39	-2436	151,28	75605,62	337,2
KB50X45	bawah		2950	74076,57	22943,06	-425,52	76997,39	-2436	151,28	75605,62	337,2
KB50X45	atas	3300	3650	59199,47	17420,42	177,82	71686,91	-1060,96	794,75	-71753,3	-448,22
KB50X45	bawah		3650	59199,47	17420,42	177,82	71686,91	-1060,96	794,75	-71753,3	448,22
KB50X45	atas	2100	2350	-38058,3	-15442	-3401,22	68700,26	-2661,82	504,55	82541,01	-5,25E-01
KB50X45	bawah		2350	-38058,3	-15442	-3401,22	68700,26	-2661,82	504,55	82541,01	-5,25E-01
KB50X45	atas	2600	2950	-66395,2	-20676,7	-3858,53	65302,45	4194,84	1549,71	-85199,23	358,6
KB50X45	bawah		2950	-66395,2	-20676,7	-3858,53	65302,45	4194,84	1549,71	-85199,23	358,6
KB50X45	atas	3300	3650	-46851,6	-14206,9	-2597,32	59846,36	2525,71	1179,71	-83226,84	56,43
KB50X45	bawah		3650	-46851,6	-14206,9	-2597,32	59846,36	2525,71	1179,71	83226,84	56,43
KB50X45	atas	2100	2350	43266,99	16986,87	-536,63	76513,91	-1623,63	-505,27	91229,42	-630,4
KB50X45	bawah		2350	43266,99	16986,87	-536,63	76513,91	-1623,63	-505,27	91229,42	-630,4
KB50X45	atas	2600	2950	74152,01	22610,13	509,71	77721,9	110,1	-583,97	75869,7	-779,15
KB50X45	bawah		2950	74152,01	22610,13	509,71	77721,9	110,1	-583,97	75869,7	-779,15
KB50X45	atas	3300	3650	59169,47	17509,15	-132,87	72390,83	3825,23	1437,35	-71754,18	914,16
KB50X45	bawah		3650	59169,47	17509,15	-132,87	72390,83	3825,23	1437,35	-71754,18	914,16
KB50X45	atas	2100	2450	5008,89	-938,3	765,43	87077,57	1034,44	-1009,84	89597,89	891,29
KB50X45	bawah		2450	-5008,89	-938,3	765,43	87077,57	1034,44	-1009,84	89597,89	891,29
KB50X45	atas	2600	3050	53374,95	16485,73	-1175,73	62333,03	2400,25	780,62	-75501,4	953
KB50X45	bawah		3050	53374,95	16485,73	-1175,73	62333,03	2400,25	780,62	-75501,4	953
KB50X45	atas	2100	2350	28685,05	3695,28	-1116,06	11644,64	4663,25	1215,93	-11542,17	907,86
KB50X45	bawah		2350	28685,05	3695,28	-1116,06	11644,64	4663,25	1215,93	-11542,17	907,86
KB50X45	atas	2600	2950	-47664,2	-18001,8	-1538,23	65458,8	-437,11	-33,42	81164,57	34,53
KB50X45	bawah		2950	-47664,2	-18001,8	-1538,23	65458,8	-437,11	-33,42	81164,57	34,53
KB50X45	atas	2600	2950	-66194	-24843,1	-1477,06	65570,44	751,14	271,63	-82646,02	476,93
KB50X45	bawah		2950	-66194	-24843,1	-1477,06	65570,44	751,14	271,63	-82646,02	476,93
KB50X45	atas	3300	3650	-51759,7	-16308,9	-391,77	60912,15	209,32	70,79	-80637,49	831,21
KB50X45	bawah		3650	-51759,7	-16308,9	-391,77	60912,15	209,32	70,79	-80637,49	831,21
KB50X45	atas	3400	3650	-33957,9	-4965,64	-2,5	9783,15	229,9	384,9	17864,8	-734,32
KB50X45	bawah		3750	-33957,9	-4965,64	-2,5	9783,15	229,9	384,9	17864,8	-734,32
KB50X45	atas	2100	2350	51305,25	19073,85	-1837,75	65910,24	-1701,85	-881,47	85230,73	-321,57
KB50X45	bawah		2350	51305,25	19073,85	-1837,75	65910,24	-1701,85	-881,47	85230,73	-321,57
KB50X45	atas	2600	3650	72007,51	25550,13	-1192,32	66035,15	-1677,94	-506,51	77329,91	-414,11
KB50X45	bawah		3650	72007,51	25550,13	-1192,32	66035,15	-1677,94	-506,51	77329,91	-414,11
KB50X45	atas	240	250	-41711	-15733,5	-595,61	71998,36	2436,81	782,38	81577,48	492,63
KB50X45	bawah		2350	-41711	-15733,5	595,61	71998,36	2436,81	782,38	81577,48	492,63
KB50X45	atas	3300	3650	36097,67	13140	-1322,71	64397,45	-1145,36	-224,84	-76030,31	1027,07
KB50X45	bawah		3650	36097,67	13140	-1322,71	64397,45	-1145,36	-224,84	-76030,31	1027,07
KB50X45	atas	240	250	52130,85	6638,57	770,83	18781,08	-19479	166,96	-13719	3085,65
KB50X45	bawah		490	52130,85	6638,57	770,83	18781,08	-19479	166,96	-13719	3085,65
KB50X45	atas	3300	3650	-37749,5	-13599,8	1301,22	74378,69	-7510,25	-956,4	-76216,15	-597,38
KB50X45	bawah		3650	-37749,5	-13599,8	1301,22	74378,69	-7510,25	-956,4	-76216,15	-597,38
KB50X45	atas	240	250	-51200,8	-6186,99	200,14	20391,23	-16856	-2787,73	-13477,39	-1214,32
KB50X45	bawah		490	-51200,8	-6186,99	200,14	20391,23	-16856	-2787,73	-13477,39	-1214,32
KB50X45	atas	2100	250	43506,69	15951,75	-3086,85	72233,9	-180,97	-254,49	84553,32	-508,22
KB50X45	bawah		2350	43906,66	15951,75	-3086,85	72233,9	-180,97	-254,49	84553,32	-508,22
KB50X45	atas	2600	350	59097,27	21634,15	-3637,83	69260,07	-248,85	-350,74	79653,73	-752,21
KB50X45	bawah		2950	59097,27	21634,15	-3637,83	69260,07	-248,85	-350,74	79653,73	-752,21
KB50X45	atas	2100	250	-5040,22	-1304,43	1154,23	84557,48	8550,22	2456,33	98186,44	823,66
KB50X45	bawah		2350	-5040,22	-1304,43	1154,23	84557,48	8550,22	2456,33	98186,44	823,66
KB50X45	atas	2760	200	-13103,1	-846,26	1549,04	19118,56	3373,53	-3051,37	-4572,6	1923,64
KB50X45	bawah		2460	-13103,1	-846,26	1549,04	19118,56	3373,53	-3051,37	-4572,6	1923,64
KB50X45	atas	2100	350	10551,58	3562,1	-185,4	84320	419,08	131,95	-80478,8	589,36
KB50X45	bawah		2450	10551,58	3562,1	-185,4	84320	419,08	131,95	-80478,8	589,36
KB50X45	atas	3000	350	8432,31	1812,38	-1278,14	74353,3	29,76	-547,84	-72636,62	662,79
KB50X45	bawah		3650	8432,31	1812,38	-1278,14	74353,3	29,76	-547,84	-72636,62	662,79

KB50X45	atas		250	-970,17	-424,12	262,87	15695,24	18656,83	-5716,13	-69155,39	2272,87
KB50X45	bawah	240	4350	-978,17	-424,12	362,97	13695,24	19455,89	-5716,13	-73155,39	2272,87
KB50X45	atas		350	-8044,2	-330,43	1099,51	82774,1	1360,7	-2775,57	48739,19	-1084,85
KB50X45	bawah	3000	3650	-8044,2	-330,43	1099,51	82774,1	1360,71	-2775,57	48739,19	-1084,85
KB50X45	atas		350	1160,58	900,87	3102,85	45092,83	-7232,95	-2661,07	-22603,45	-1660,64
KB50X45	bawah	3200	3650	-1160,58	960,87	3102,85	45092,83	-7232,95	-2661,07	-22603,45	-1660,64
KB50X45	atas		250	2060,3	-1318,32	2606,55	1050,28,5	-566,23	1534,84	62158,11	706,15
KB50X45	bawah	2100	2050	-2060,3	-1118,32	2606,55	1050,28,5	-566,23	1534,84	62158,11	706,15
KB50X45	atas		350	-7084,07	-2491,63	3860,38	112753	366,26	-1832,44	-82153,4	-1233,1
KB50X45	bawah	2800	2950	-7084,07	-2491,63	3860,38	112753	366,26	-1832,44	-82153,4	-1233,1
KB50X45	atas		350	481,47	25,95	1666,53	103052,9	2895,75	-1865,56	57349,27	-1028,76
KB50X45	bawah	3000	3650	481,47	25,95	1666,53	103052,9	2895,75	-1865,56	57349,27	-1028,76
KB50X45	atas		350	1509,5	-1309,12	1290,75	85692,13	-1623,13	-2488,81	76194,95	-1004,81
KB50X45	bawah	3200	3650	1809,5	-1309,12	1290,75	85692,13	-1623,13	-2488,81	76194,95	-1004,81
KB50X45	atas		250	3133,47	-914,36	1012,21	78651,86	10414,37	-2516,15	56265,14	664,74
KB50X45	bawah	2100	2350	-3133,47	-914,36	1012,21	78651,86	10414,37	-2516,15	56265,14	664,74
KB50X45	atas		250	365,84	410,34	936,13	14806,62	-21164,4	-2784,48	-7715,34	-1069,68
KB50X45	bawah	240	400	365,84	410,34	936,13	14806,62	-21164,4	-2784,48	-7715,34	-1069,68
KB50X45	atas		350	-8154,19	-151,11	1179,48	76833,17	-12401,6	-2960,48	-51360,61	-923,96
KB50X45	bawah	3600	3650	-8154,19	-151,11	1179,48	76833,17	-12401,6	-2960,48	-51360,61	-923,96
KB50X45	atas		350	6366,48	-637,52	1005,88	70265,07	-12648,1	-2774,48	-46901,05	-1487,32
KB50X45	bawah	3350	3650	6366,48	-637,52	1005,88	70265,07	-12648,1	-2774,48	-46901,05	-1487,32
KB50X45	atas		200	13566,2	-109,37	970,42	5998,89	-9254,54	-1275,5	413,01	1335,69
KB50X45	bawah	3750	3950	13566,2	-109,37	-970,42	5998,89	-9254,54	-1275,5	413,01	1335,69
KB50X45	atas		350	8270,88	2421,4	3621,98	84512,77	7990,69	3571,93	58108,68	-101,92
KB50X45	bawah	2100	2350	8270,88	2421,4	3621,98	84512,77	7990,69	3571,93	58108,68	-101,92
KB50X45	atas		350	13125,09	5017,84	4314,63	95537,65	-13627,1	-4748,26	-42864,77	-148,41
KB50X45	bawah	2600	2950	13125,09	5017,84	4314,63	95537,65	-13627,1	-4748,26	-42864,77	-148,41
3KB45X45	atas		350	12715,31	2662,2	2219,57	79752,49	-13541,6	-4047,71	-44645,54	-369,41
3KB45X45	bawah	3300	3650	12715,31	2662,2	2219,57	79752,49	-13541,6	-4047,71	-44645,54	-369,41
3KB45X45	atas		250	-5888,14	-911,64	-745,95	36932,6	-1864,32	865,35	39599,46	-234,75
3KB45X45	bawah	2200	2450	-5888,12	-911,64	-745,95	36932,6	-1864,32	865,35	39599,46	-234,75
3KB45X45	atas		250	8520,58	-2055,5	-1934,42	22852,94	11011,15	3083,67	-39319,21	-1295,97
3KB45X45	bawah	2800	3050	8520,58	-2055,5	-1934,42	22852,94	11011,15	3083,67	-39319,21	-1295,97
3KB45X45	atas		250	6017,42	1643,47	-400,28	34099,85	5843,94	1950,77	-39806,6	-1272,54
3KB45X45	bawah	4500	4750	6017,42	1643,47	-400,28	34099,85	5843,94	1950,77	-39806,6	-1272,54
3KB45X45	atas		250	5714,27	83,02	-4155,66	36676,91	11879,57	4341,67	-28951,29	982,53
3KB45X45	bawah	3600	3750	5714,27	83,02	-4155,66	36676,91	11879,57	4341,67	-28951,29	982,53
3KB45X45	atas		250	8646,57	-2075,2	1948,68	22969,27	-10192	-2941,06	-39316,92	850,47
3KB45X45	bawah	2800	3050	8646,57	-2075,2	1948,68	22969,27	-10192	-2941,06	-39316,92	850,47
3KB45X45	atas		250	6755,09	1646,72	422,36	36043,52	-4078,91	-1600,4	-39806,01	834,14
3KB45X45	bawah	4500	4750	6755,98	1646,72	422,36	36043,52	-4978,44	-1600,4	-39806,01	834,14
3KB45X45	atas		250	5116,25	-43,78	4189,75	36715,84	-11598,3	-4334,13	-26951,77	-1293,14
3KB45X45	bawah	3600	3750	5116,25	-43,78	4189,75	36715,84	-11598,3	-4334,13	-26951,77	-1293,14
3KB45X45	atas		250	63831,6	20023,1	111,93	55555,17	-666,45	-123,47	74793,03	294,31
3KB45X45	bawah	2100	2350	-63831,6	20023,1	111,93	55555,17	-666,45	-123,47	74793,03	294,31
3KB45X45	atas		350	-61226,6	-1934,4	77,96	51562,69	965,71	177,67	-109050,1	-378,41
3KB45X45	bawah	2600	2950	-61226,6	-1934,4	77,96	51562,69	965,71	177,67	-109050,1	-378,41
3KB45X45	atas		350	22836,11	10357,35	-43,68	51666,06	1299,23	814,87	-81122,87	230,56
3KB45X45	bawah	2100	2450	22836,11	10357,35	-43,68	51666,06	1299,23	814,87	-81122,87	230,56
3KB45X45	atas		350	4306,72	5001,6	-26,48	50414,4	-1903,93	-439,51	115661,55	-325,4
3KB45X45	bawah	2600	2950	4306,72	5001,6	-26,48	50414,4	-1903,93	-439,51	115661,55	-325,4
4KB30X30	atas		200	978,2	104,76	-96,43	13221,81	786,72	-245,11	8171,85	169,39
4KB30X30	bawah	2300	2500	978,1	104,76	-96,43	13221,81	-786,72	-245,11	8171,85	169,39
4KB30X30	atas		200	99,06	1,85	154,75	12614,57	-1927,56	-369,85	8220,73	282,43
4KB30X30	bawah	2900	3100	99,05	1,85	154,76	12614,57	-1927,58	-369,85	8220,73	282,43
4KB30X30	atas		250	3589,23	109,55	-260,98	13863,41	494,99	782,68	-13383,97	-44,61
4KB30X30	bawah	3550	3800	3589,23	109,55	-260,98	13863,41	494,99	782,68	-13383,97	-44,61
4KB30X30	atas		200	534,38	138,54	621,79	12218,62	-426,38	-133,04	-6582,21	-150,91
4KB30X30	bawah	2300	2500	534,38	138,54	621,79	12218,62	-426,38	-133,04	-6582,21	-150,91
4KB30X30	atas		200	-421,55	-21,01	907,52	13870,43	1102,57	384,08	8567,51	199,52
4KB30X30	bawah	2900	3100	-421,55	-21,01	907,52	13870,43	1102,57	384,08	8567,51	199,52
4KB30X30	atas		250	2439,43	-164,22	1149,82	14728,09	70,66	-735,76	-14708,99	767,12
4KB30X30	bawah	3550	3800	2439,43	-164,22	1149,82	14728,09	70,65	-735,75	-14709,00	-757,12
4KB30X30	atas		200	526,13	154,02	-633,23	13538,62	-832,07	-151,87	6590,76	61,63
4KB30X30	bawah	2300	2500	526,13	154,02	-633,23	13538,62	-832,07	-151,87	6590,76	-61,63
4KB30X30	atas		200	-245,25	-15,08	-911,82	13984,48	-1240,18	-359,1	8593,79	-95,31
4KB30X30	bawah	2900	3100	-245,25	-15,08	-911,82	13984,48	-1240,18	-359,1	8593,79	-95,31
4KB30X30	atas		250	2547,78	131,24	-1115,79	15050,73	132,05	770,65	-14688,09	615,03
4KB30X30	bawah	3550	3800	2547,78	-131,24	-1115,79	15050,73	132,05	770,65	-14688,09	615,03
4KB30X30	atas		200	375,53	116,85	187,87	13787,1	695,61	208,23	6161,36	-82,31
4KB30X30	bawah	2300	2500	375,53	116,85	187,87	13787,1	695,61	208,23	6161,36	-82,31
4KB30X30	atas		200	-89,48	10,44	253,76	13039,23	1196,7	365,29	8225,75	-183,52
4KB30X30	bawah	2900	3100	-89,48	10,44	253,76	13039,23	1196,7	365,29	8225,75	-183,52
4KB30X30	atas		250	3812,06	214,93	214,57	14566,49	-297,44	-755,57	-13385,15	-121,47
4KB30X30	bawah	3550	3800	3812,06	214,93	214,57	14566,49	-297,44	-755,57	-13385,15	121,47
5KB30X50	atas		250	-2731,3	-1089,39	1271,1	41400,79	-1066,17	-276,08	97155,87	-35,39
5KB30X50	bawah	2100	2350	-2731,3	-1089,39	1271,1	41400,79	-1066,17	-276,08	97155,87	35,39

BK30X50	atas	2900	350	-151,41	-36,01	1607,4	47330,14	-3279,84	-43,35	-30960,87	-312,3
BK30X50	bawah		2950	-151,41	-36,01	1607,4	47330,14	-3279,84	-43,35	-30960,87	-312,3
BK30X50	atas	3300	350	6887,47	2241,55	1584,76	38797,16	-5248,45	-1937,89	-46203,54	66,79
BK30X50	bawah		3650	6887,47	2241,55	1584,76	38797,16	-5248,45	-1937,89	-46203,54	66,79
BK30X50	atas	2100	350	-2437,39	-936,5	-1240,19	41981,06	131,9	66,92	38362,78	30,35
BK30X50	bawah		2450	-2437,39	-936,5	-1046,19	41981,06	131,9	66,92	38362,78	30,35
BK30X50	atas	2600	350	5,6	64,15	1580,85	47318,83	4053,38	216,16	-31847,07	265,48
BK30X50	bawah		4950	5,6	64,15	-1580,85	47318,83	4053,38	216,16	-31847,07	265,48
BK30X50	atas	3300	350	6761,46	2226,85	-1562,57	38980,08	6048,62	2171,39	-46186,49	-143,63
BK30X50	bawah		3650	6761,46	2226,85	-1562,57	38980,08	6048,62	2171,39	-46186,49	-143,63
K30X25	atas	2600	2500	1133,37	242,2	-313,83	11317,15	1595,66	336,42	-10710,87	192,86
K30X25	bawah		2500	1133,37	242,2	-313,83	11317,15	1595,66	336,42	-10710,87	192,86
K30X25	atas	2900	2800	1872,86	340,13	-407,16	10476,02	2795,67	646,66	-9642,34	431,75
K30X25	bawah		3100	1872,86	340,13	-407,16	10476,02	2795,67	646,66	-9642,34	431,75
K30X25	atas	3550	250	1999,86	364,2	-75,77	11682,1	1734,41	406,06	-11463,75	-125,31
K30X25	bawah		3800	1999,86	364,2	-75,77	11682,1	1734,41	406,06	-11463,75	-125,31
K30X25	atas	2200	550	-251,05	123,14	-266,03	10873,74	415,7	188,52	-11706,58	92,96
K30X25	bawah		2450	-251,05	123,14	-266,03	10873,74	415,7	188,52	-11706,58	92,96
K30X25	atas	2300	207	1354,37	140,11	-222,32	10854,36	-502,2	17,85	-13696	53,4
K30X25	bawah		2500	1354,37	140,11	-222,32	10854,36	-502,2	17,85	-13696	53,4
K30X25	atas	3900	250	535,71	181,9	-305,34	10021,85	687,33	292,78	-21467,09	160,78
K30X25	bawah		3050	-535,7	191,9	-305,34	10021,85	687,33	292,78	-21467,09	153,78
K30X25	atas	2900	200	1844,52	182,26	-329,86	10522,57	-355,67	-3,53	-13506,77	-73,87
K30X25	bawah		3100	1844,52	182,26	-329,86	10522,57	-355,67	-3,53	-13506,77	-73,87
K30X25	atas	3500	250	18,34	219,66	-288,73	10284,41	1052,74	387,46	-17504,16	159,98
K30X25	bawah		3750	18,34	219,66	-288,73	10284,41	1052,74	387,46	-17504,16	159,98
K30X25	atas	2550	250	1512,94	184,67	-364,6	10853,78	788,78	502,44	-14874,58	501,69
K30X25	bawah		3800	1512,94	184,67	-364,6	10853,78	788,78	502,44	-14874,58	501,69
K30X25	atas	2300	200	1762,61	501,37	-5,05	11441,17	631,07	321,17	-13081,7	3,96
K30X25	bawah		2500	1762,61	501,37	-5,05	11441,17	631,07	321,17	-13081,7	3,96
K30X25	atas	3100	200	4063,07	1108,46	132,36	14423,17	409,99	399,5	-14108,59	-152,45
K30X25	bawah		3100	4063,07	1108,46	132,36	14423,17	409,99	399,5	-14108,59	-152,45
K30X25	atas	2300	200	2078,94	234,74	255,8	11629,38	-1399,55	598,29	-9723,64	181,97
K30X25	bawah		2500	2078,94	234,74	255,8	11629,38	-1399,55	598,29	-9723,64	181,97
K30X25	atas	2900	200	4590,25	944,51	199,03	16280,1	-1966,7	909,8	-9370,09	367,78
K30X25	bawah		2100	4590,25	944,51	199,03	16280,1	-1966,7	909,8	-9370,09	367,78
K30X25	atas	3300	200	2062,42	153,33	479,71	12838,02	-2131,71	835,95	12414,23	-255,92
K30X25	bawah		2500	2062,42	153,33	479,71	12838,02	-2131,71	835,95	12414,23	-255,92
K30X25	atas	2900	200	1369,62	305,1	564,89	13712,04	2863,52	1005,96	-9496,81	417,64
K30X25	bawah		3100	1369,62	305,1	564,89	13712,04	2863,52	1005,96	-9496,81	417,64
K30X25	atas	3650	250	2542,99	853,04	521,99	12607,26	335,14	57,1	-9491,28	-64,06
K30X25	bawah		3800	2542,99	853,04	521,99	12607,26	335,14	57,1	-9491,28	-64,06
K30X25	atas	2200	200	792,64	-42,8	267,82	12700,64	1895,02	743,76	11017,5	-266,63
K30X25	bawah		2500	792,64	-42,8	267,82	12700,64	1895,02	743,76	11017,5	-266,63
K30X25	atas	2900	200	1732,12	224,05	192,71	15229,33	-1727,31	-515,93	-14578,97	276,91
K30X25	bawah		3100	1732,12	224,05	192,71	15229,33	-1727,31	-515,93	-14578,97	276,91
K30X25	atas	3650	250	3873,02	812,86	261,43	15136,36	-923,17	-77,75	-15648,8	277,56
K30X25	bawah		3800	3873,02	812,86	261,43	15136,36	-923,17	-77,75	-15648,8	277,56
K30X25	atas	2300	200	761,03	-44,27	-260,88	12764,11	-2272,53	-836,14	11006,32	177,73
K30X25	bawah		2500	761,03	-44,27	-260,88	12764,11	-2272,53	-836,14	11006,32	177,73
K30X25	atas	2900	200	1689,88	222,32	-183,99	15316,8	2251,21	741,02	-14584,87	-121,2
K30X25	bawah		3100	1689,88	222,32	-183,99	15316,8	2251,21	741,02	-14584,87	-121,2
K30X25	atas	3550	250	3805,77	805,46	-250,77	15221,78	981,45	235,14	-15656,59	-93,86
K30X25	bawah		3800	3805,77	805,46	-250,77	15221,78	981,45	235,14	-15656,59	-93,86
K30X25	atas	2300	200	2036,14	162,29	472,48	12561,43	-1700,79	730,96	12405,16	130,85
K30X25	bawah		2500	2036,14	162,29	472,48	12561,43	-1700,79	730,96	12405,16	130,85
K30X25	atas	2900	200	1782,15	314,7	-556,18	13645,04	-2943,87	-928,93	-9498,97	-320,71
K30X25	bawah		3100	1782,15	314,7	-556,18	13645,04	-2943,87	-928,93	-9498,97	-320,71
K30X25	atas	3550	250	2432,17	668,81	-513,87	12730,66	88,08	34,27	-9500,12	246,41
K30X25	bawah		3800	2432,17	668,81	-513,87	12730,66	88,08	34,27	-9500,12	246,41
K30X25	atas	2900	200	1475,42	264,82	-265,54	11908,32	1549,42	590,02	-9341,7	-23,77
K30X25	bawah		2500	1475,42	264,82	-265,54	11928,32	1549,42	590,02	-9341,7	-23,77
K30X25	atas	3300	200	4376,61	1007,74	-195,78	16712,22	2095,61	825,37	-8923,08	-191,3
K30X25	bawah		3100	4376,61	1007,74	-195,78	16712,22	2095,61	825,37	-8923,08	-191,3
K30X25	atas	2300	200	1900,76	573,74	104,02	12023,9	603,44	205,55	-12016	49,77
K30X25	bawah		2500	1900,76	573,74	104,02	12023,9	603,44	205,55	-12016	49,77
K30X25	atas	2900	200	4857,88	1330,19	31,6	15448,99	573,08	173,75	-13187,61	30,26
K30X25	bawah		3100	4857,88	1330,19	31,6	15448,99	573,08	173,75	-13187,61	30,26
K30X25	atas	3550	200	1047,97	275,62	415,9	11625,44	-1945,09	-612,9	-9155,65	95,16
K30X25	bawah		2500	1047,97	275,62	415,9	11625,44	-1945,09	-612,9	-9155,65	95,16
K30X25	atas	2900	200	1478,36	365,61	487,94	12067,89	-2647,81	-1100,61	-5898,59	221,91
K30X25	bawah		3100	1478,36	365,61	487,94	12067,89	-2647,81	-1100,61	-5898,59	221,91
K30X25	atas	3550	250	1394,94	253,38	334,24	12232,54	-3112,2	-1195,78	-9832,28	-445,75
K30X25	bawah		3800	1394,94	253,38	334,24	12232,54	-3112,2	-1195,78	-9832,28	-445,75
1K50X50	atas	340	150	-20617,2	-2317,85	-4863,02	-1638,02	14226,76	-3660,35	-20426,38	-695,13
1K50X50	bawah		450	-20617,2	-2317,85	-4863,02	-1638,02	14226,76	-3660,35	-20426,38	-695,13
1K50X50	atas	3300	350	38711,89	7224,76	3555,03	47844,33	-8788,63	-3435,04	-91087,52	161,85
1K50X50	bawah		3500	38711,89	7224,76	3555,03	47844,33	-8788,63	-3435,04	-91087,52	161,85

1K50X50	atas		250	13662,32	-250,35	1459,65	17760,74	7760,64	520,32	-13704,56	241,75
1K50X50	bawah	3400	3650	13867,32	-200,35	1499,65	17760,74	7760,64	520,32	-13704,56	241,75
1K50X50	atas		250	-15780	-6391,66	1527,65	7221,22	32875,54	15485,26	-24747,77	4932,93
1K50X50	bawah	900	650	-15780	-6391,66	1527,65	5521,22	32875,54	15485,26	-24747,77	4928,93
1K50X50	atas		250	19074,41	5545,04	798,15	70954,2	23747,99	7331,87	-39079,94	1573,97
1K50X50	bawah	2400	2750	19074,41	5545,04	-798,15	70954,2	23747,99	7331,87	-39079,94	1573,97
1K50X50	atas		0	-22310,7	2807,13	9341,59	7917,13	38362,51	8875,9	-5073,24	7706,96
1K50X50	bawah	900	900	-22310,7	2807,13	9341,59	7917,13	38362,51	8875,9	-5073,24	7705,96
1K50X50	atas		200	-10377,7	-1565,9	-173,15	20884,58	8045,45	3143,13	-13373,87	1574,15
1K50X50	bawah	2410	2610	-10377,7	-1565,9	173,15	20884,58	8045,45	3143,13	-13373,87	1574,15
1K50X50	atas		150	27089,3	4775,83	-521,34	14458,2	3510,03	-2954,93	-20530,63	502,76
1K50X50	bawah	340	490	27089,3	4775,83	521,34	14458,2	3510,03	-2954,93	-20530,63	502,76
1K50X50	atas		350	39194,17	7103,45	3520,27	47997,64	11021,91	3949,22	-31107,6	360,01
1K50X50	bawah	3300	3650	39194,17	7103,45	3520,27	47997,64	11021,91	3949,22	-31107,6	360,01
1K50X50	atas		250	14038	-439,24	1305,39	16153,36	-8544,17	-236,69	-25191,5	-245,63
1K50X50	bawah	3400	3650	14038	-439,24	1305,39	16153,95	-8544,17	-236,69	-25191,5	-245,63
1K50X50	atas		350	-18026	-6315,9	1915,45	5223,09	-31790,4	-16204,6	-25280,59	4840,43
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1K50X50	atas		350	19337,13	5341,79	846,3	70667,24	23639,5	7360,7	-38955,96	-1866,82
1K50X50	bawah	2400	2750	19337,13	5341,79	846,3	70667,24	23639,5	7360,7	-38955,96	-1866,82
1K50X50	atas		0	-20871,4	-1807,83	-9436,44	8798,12	30389,9	-9026,09	-5976,66	-7751,75
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1K50X50	atas		200	-9501,7	-1543,95	79,71	21726,2	6855,04	3078,33	-15396,77	-1725,52
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KB50X45	atas		350	8713,57	2408,43	542,55	38871,1	9090,81	2787,92	-23170,25	-1719,41
KB50X45	bawah	3300	3650	8713,57	2408,43	542,55	38871,1	9090,81	2787,92	-23170,25	-1719,41
KB50X45	atas		200	-17700	839,11	1212,09	5698,29	9302,06	-1486,04	263,68	-1620,62
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KB50X45	atas		250	-9424	51,24	-2488,66	14649,65	10241,91	1405,66	-6298,04	-3067,3
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KB50X45	atas		350	-2501,79	-221	-1646,07	53002,82	2213,03	1487,32	-32160,56	1746,16
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KB50X45	atas		200	-18584,5	-3950,81	-1673,48	17550,19	-2235,98	3170,14	-5014,46	-2043,71
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KB50X45	atas		350	9295,05	1920,89	669,86	35444,56	9003,9	3521,48	-39774,5	2542,02
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KB50X45	atas		200	17488,45	3045,53	-2086,83	6963,56	10096,11	4051,59	-16366,43	2610,35
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KB50X45	atas		250	171,7	-23,24	-510,39	19371,54	2417,04	6599,71	-27675,81	1956,75
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KB50X45	atas		350	-7013,44	-650,26	-181,75	60862,81	184,85	3674,26	-14620,34	1013,44
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KB50X45	atas		350	125,6	305,42	-213,21	21531,06	4101,17	2787,23	-35158,81	1210,43
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KB50X45	atas		350	36076,7	10703,68	573,19	45053,49	6344,95	1629,63	-60109,16	-261,33
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KB50X45	atas		350	31328,67	10018,25	518,59	31478,19	5305,3	1696,97	-42136,78	-383,21
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KB50X45	atas		200	36060,92	8912,89	723,37	14267,33	4960,9	399,56	-11791	-346,71
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KB50X45	atas		250	-54864,3	-7722,01	345,18	13413,63	17023,4	2904,76	-13843,27	1033,91
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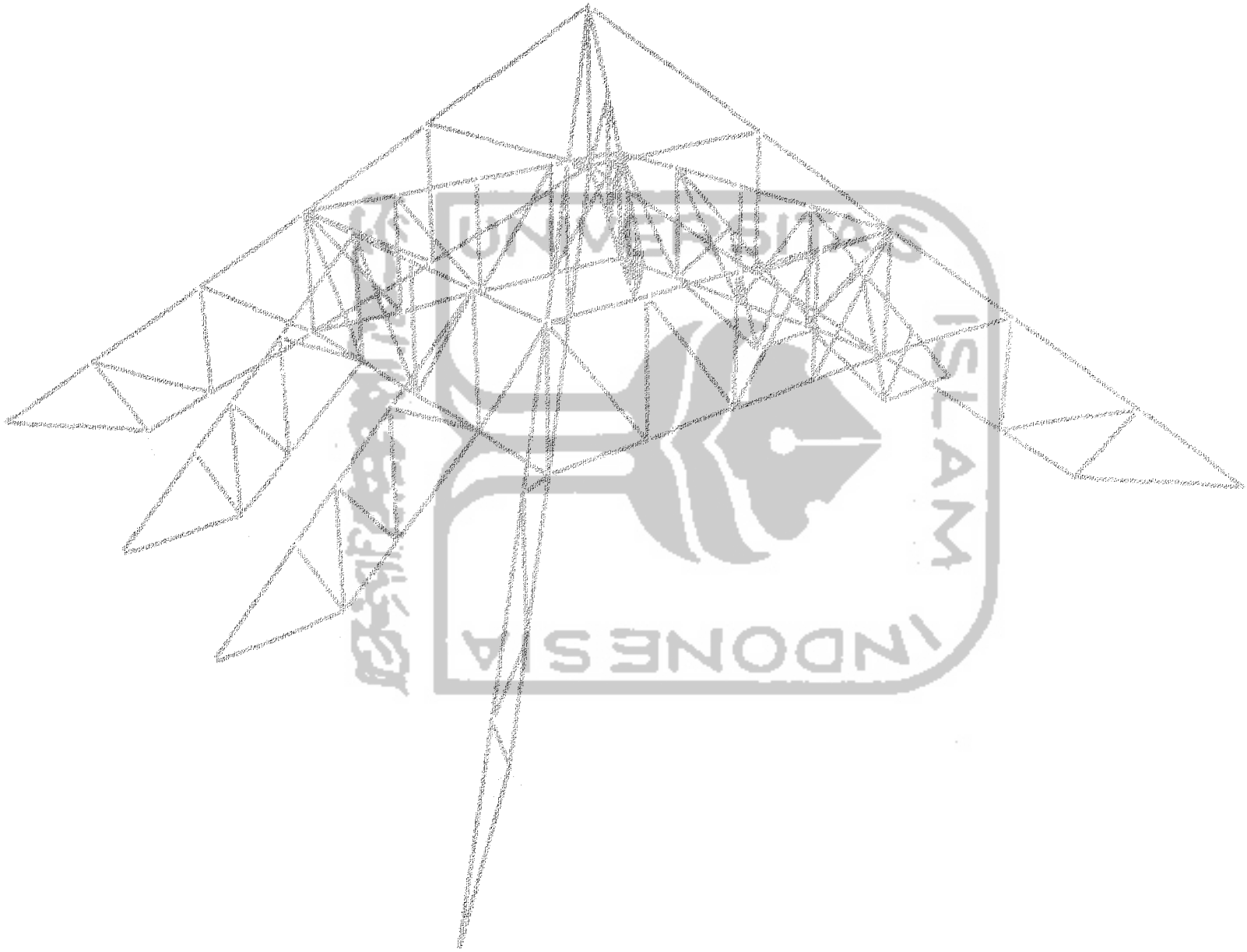
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KB50X45	bawah		3650	-4610,37	342,15	1637,13	67483,75	424,38	-3641,57	-14571,96	-1137,12
KB50X45	atas	3300	350	13102,2	2744,9	1118,51	64012,65	-15942,8	-4755,71	-31470,07	-864,57
KB50X45	bawah		3650	13102,2	2744,9	1118,51	64012,65	-15942,8	-4755,71	-31470,07	-864,57
KB50X45	atas	3300	350	10970,46	2547,6	512,24	40269,45	-15002,2	-5098,9	-22426,77	-871,09
KB50X45	bawah		3650	10970,46	2547,6	512,24	40269,45	-15002,2	-5098,9	-22426,77	-871,09
KB50X45	atas	2760	200	17755,65	1024,76	183,73	9405,59	-22196,3	-4822,78	-6348,03	-1291,91
KB50X45	bawah		2960	17755,65	1024,76	183,73	9405,59	-22196,3	-4822,78	-6348,03	-1291,91
KB50X45	atas	3300	350	-8655,85	-562,19	-1678,05	53435,29	-15637,3	-3330,92	-28925,62	-1675,4
KB50X45	bawah		3650	-8655,85	-562,19	-1678,05	53435,29	-15637,3	-3330,92	-28925,62	-1675,4
KB50X45	atas	3300	350	-8713,51	-903,54	-1416,26	34250,5	-8067,75	-2855,58	-26159,5	-1965,71
KB50X45	bawah		3650	-8713,51	-903,54	-1416,26	34250,5	-8067,75	-2855,58	-26159,5	-1965,71
3KB45X45	atas	3050	200	2155,66	297,82	-5638,25	18099,12	16120,1	4100,12	-14712,67	3115,2
3KB45X45	bawah		3250	2155,66	297,82	-5638,25	18099,12	16120,1	4100,12	-14712,67	3115,2
3KB45X45	atas	2410	200	-9683,08	-424,24	283,13	5119,66	10656,59	-849,44	-8982,14	837,84
3KB45X45	bawah		2610	-9683,08	-424,24	283,13	5119,66	10656,59	-849,44	-8982,14	837,84
3KB45X45	atas	3050	200	1956,6	272,96	5654,21	18142,14	-16023,3	-4113,69	-14710,09	-3302,26
3KB45X45	bawah		3250	1956,6	272,96	5654,21	18142,14	-16023,3	-4113,69	-14710,09	-3302,26

3KB845x45	atas	2410	250	-9422,42	-350,22	-328,48	5426,06	10663,25	-845,09	8978,67	936,31
3KB845x45	bawah		3510	-9422,42	-350,22	-328,48	5426,06	10663,25	845,09	8978,67	936,31
4KB30X30	atas	3500	250	4421,2	-272,38	-412,72	12393,3	-99,09	529,99	-11410,95	-293,9
4KB30X30	bawah		3750	4421,2	-272,38	-412,72	12393,3	-99,09	529,99	-11410,95	-293,9
4KB30X30	atas	3500	250	2830,21	-271,25	-575,25	7435,53	1537,1	412,62	-9098,32	-214,62
4KB30X30	bawah		3750	2830,21	-271,25	-575,25	7435,53	1537,1	412,62	-9098,32	-214,62
4KB30X30	atas	3500	250	2651	-119,61	1404,51	1114,85	636,04	-535,91	-12826,59	-101,07
4KB30X30	bawah		3750	2651	-119,61	1404,51	1114,85	636,04	-535,91	-12826,59	-101,07
4KB30X30	atas	3500	250	-156,37	-334,34	1510,64	7565,82	-2074,65	-681,59	-9903,59	-435,26
4KB30X30	bawah		3750	-156,37	-334,34	1510,64	7565,82	-2074,65	-681,59	-9903,59	-435,26
4KB30X30	atas	750	250	-54313,2	-2266,4	802,4	1526,03	-11180,2	1006,5	3017,73	316,05
4KB30X30	bawah		1000	-54313,2	-2266,4	802,4	1526,03	-11180,2	1006,5	3017,73	316,05
4KB30X30	atas	750	200	55449,23	2634,2	-1498,8	1367,53	10600,87	1251,48	-3196,26	74,03
4KB30X30	bawah		950	55444,25	2604,2	-1498,8	1367,53	10600,87	1251,48	-3196,26	74,03
4KB30X30	atas	750	250	-38732,5	-4215,42	340,32	3089,31	8295,89	595,3	618,89	-1878,87
4KB30X30	bawah		1000	-38732,5	-4215,42	340,32	3089,31	8296,89	595,3	618,89	-1878,87
4KB30X30	atas	750	200	32022,05	3555	733,65	-135,27	7455,55	774,52	-1053,4	-1380,02
4KB30X30	bawah		950	31922,05	3555	709,05	135,27	-7455,55	774,52	-1053,4	-1889,82
4KB30X30	atas	750	200	-38118,8	-5341,06	-152,71	-4002,31	6171,21	-155,62	1052,81	-1345,61
4KB30X30	bawah		950	-38118,8	-5341,06	-152,71	-4002,31	6171,21	-155,62	1052,81	-1345,61
4KB30X30	atas	750	200	39650,2	5843,42	220,57	3148,04	5842,05	320,84	-1270,09	1548,7
4KB30X30	bawah		950	39650,2	5843,42	220,57	3148,04	-5842,05	320,84	-1270,09	1548,7
4KB30X30	atas	750	200	-24790,2	-2036,17	-1019,38	-5249,4	3920,53	-124,34	1031,1	556,47
4KB30X30	bawah		950	-24790,2	-2036,17	-1019,38	-5249,4	3920,53	-124,34	1031,1	556,47
4KB30X30	atas	750	200	-20037,2	-2148,75	-742,88	679,49	-2756,18	-574,38	2683,97	-1593,72
4KB30X30	bawah		950	-20037,2	-2148,75	-742,88	679,49	-2756,18	-574,38	2683,97	-1593,72
4KB30X30	atas	750	200	22762,63	3153,07	1237,46	9499,66	-3700,06	-511,09	2814,27	1736,07
4KB30X30	bawah		950	22762,63	3169,07	1237,46	9499,66	-3700,06	-511,09	2814,27	1736,07
4KB30X30	atas	750	200	20600,22	1037,87	221,97	-4693,22	54627,23	1269,9	1243,99	-40,74
4KB30X30	bawah		950	20600,22	1037,87	221,97	-4693,22	54627,23	1269,9	1243,99	-40,74
4KB30X30	atas	750	200	-24500,5	-2425,08	1050,02	-3513,78	-3881,8	203,9	1054,02	-483,22
4KB30X30	bawah		950	-24500,5	-2425,08	1050,02	-3513,78	-3881,8	203,9	1054,02	-483,22
4KB30X30	atas	750	250	-20937	-2186,8	791,62	310,65	-2757,18	547,68	-2856,8	-1600,57
4KB30X30	bawah		1000	-20937	-2186,8	791,62	310,65	-2757,18	547,68	-2856,8	-1600,57
4KB30X30	atas	750	200	22286,49	4145,19	-1655,24	15688,49	3925,45	1045,74	1208,04	-1851,68
4KB30X30	bawah		950	22286,49	4145,19	-1655,24	15688,49	3925,45	1045,74	1208,04	-1851,68
4KB30X30	atas	750	200	21742,47	156,48	118,44	-10256,62	-5406,7	-1336,15	2051,78	50,6
4KB30X30	bawah		950	21742,46	150,48	118,44	-10256,62	-5406,7	-1336,15	2051,78	50,6
4KB30X30	atas	750	250	-35418,6	-5351,01	236,6	-4779,12	-8880,17	-167,73	-1061,86	-1381,23
4KB30X30	bawah		1000	-35418,6	-5351,01	236,6	-4779,12	-8880,17	-167,73	-1061,86	-1381,23
4KB30X30	atas	750	200	37308,32	5897,61	-250,33	3284,1	5542,14	-445,28	-735,86	-1647,29
4KB30X30	bawah		950	37306,32	5897,61	-250,33	3284,1	5542,14	-445,28	-735,86	-1647,29
4KB30X30	atas	750	250	-33150,3	-4248,34	286,09	-3049,56	-7619,71	-527,31	607,96	2057,55
4KB30X30	bawah		1000	-33150,3	-4248,34	286,09	-3049,56	-7619,71	-527,31	607,96	2057,55
4KB30X30	atas	750	200	31293,55	3797,22	-583,25	21,04	7102,17	759,8	-544,92	2015,29
4KB30X30	bawah		950	31293,55	3797,22	-583,25	21,04	7102,17	759,8	-544,92	2015,28
4KB30X30	atas	750	250	-54446,5	-2191,34	-749,52	1508	11363,2	1086,99	3041,25	-206,89
4KB30X30	bawah		1000	-54446,5	-2191,34	-749,52	1508	11363,2	1086,99	3041,25	-206,89
4KB30X30	atas	750	200	55209,07	2438,66	1408,01	1134,57	-10866,9	-1270,22	-2792,45	58,96
4KB30X30	bawah		950	55209,07	2438,66	1408,01	1134,57	-10866,9	-1270,22	-2792,45	58,96
4KB30X30	atas	3500	250	2790,02	-90,02	-1441,77	13934,93	-548,45	532,37	-12815,04	843,02
4KB30X30	bawah		3750	2790,02	-90,02	-1441,77	13934,93	-548,45	532,37	-12815,04	843,02
4KB30X30	atas	3500	250	838,11	-114,05	-1477,96	8470,46	2153,89	889,94	-9873,77	408,35
4KB30X30	bawah		3750	838,11	-114,05	-1477,96	8470,46	2153,89	889,94	-9873,77	408,35
4KB30X30	atas	3500	3500	4838,54	461,57	-374,11	13102,33	189,14	-596,25	-11933,25	71,51
4KB30X30	bawah		3750	4838,54	461,57	-374,11	13102,33	189,14	-596,25	-11933,25	71,51
4KB30X30	atas	3500	250	3064,19	480,58	588,89	7885,39	-1503,25	-433,2	-4048,09	166,25
4KB30X30	bawah		3750	3064,19	480,58	588,89	7885,39	-1503,25	-433,2	-4048,09	166,25
K30X25	atas	3500	250	1637,55	414,06	140,85	10510,63	1809,98	465,33	-7976,64	-195,2
K30X25	bawah		3750	1637,55	414,06	140,85	10510,63	1809,98	465,33	-7976,64	-195,2
K30X25	atas	3500	250	1768,02	375,14	147,38	6407,92	2221,95	583,74	-4832,83	-25,29
K30X25	bawah		3750	1768,02	375,14	147,38	6407,92	2221,95	583,74	-4832,83	-25,29
K30X25	atas	3500	250	1106,6	290,76	147,08	2139,04	1873,51	508,9	-1405,54	-27,45
K30X25	bawah		3750	1106,6	290,76	147,08	2139,04	1873,51	508,9	-1405,54	-27,45
K30X25	atas	2600	250	1669,55	540,57	-803,09	18761,54	1727,21	623,22	-5791,94	-95,05
K30X25	bawah		2950	1669,55	540,57	-803,09	18761,54	1727,21	623,22	-5791,94	-95,05
K30X25	atas	3500	250	1676,8	41,2	-513,7	5498,51	3206,7	1276,76	-6839,38	799,81
K30X25	bawah		3750	1676,8	41,2	-513,7	5498,51	3206,7	1276,76	-6839,39	799,81
K30X25	atas	2860	200	5821,14	141,25	-431,59	2651,33	1574,02	654,65	-8132,28	257,02
K30X25	bawah		3060	5821,14	141,25	-431,59	2651,33	1574,02	654,65	-8132,28	257,02
K30X25	atas	3500	250	-63,2	-87,84	-276,42	966,21	3851,83	1271,83	-2772,71	609,47
K30X25	bawah		3750	-63,2	-87,84	-276,42	966,21	3851,83	1271,83	-2772,71	609,47
K30X25	atas	3500	250	256,6	231,04	-340,18	9653,66	1305,19	498,4	-13983,19	230,1
K30X25	bawah		3750	256,6	231,04	-340,18	9653,66	1305,19	498,4	-13983,19	230,1
K30X25	atas	3500	250	1294,93	115,61	-451,61	9138,34	3003,93	1205,89	-10684,65	1295,16
K30X25	bawah		3750	1294,93	115,61	-451,61	9138,34	3003,93	1205,89	-10684,65	1295,16
K30X25	atas	3500	250	66,01	155,64	-370,95	5172,04	1196,57	500,43	-9193,2	211,07
K30X25	bawah		3750	66,01	155,64	-370,95	5172,04	1196,57	500,43	-9193,2	211,07

K30X25	atas		250	3897,5	513,86	530,63	10387,41	-1512,7	-592,94	-2713,33	-639,54
K30X25	bawah	3500	3750	3907,5	513,86	530,63	10387,41	-1512,7	-592,94	-9713,33	-639,54
K30X25	atas		350	3622,25	834,64	466,86	8157,47	-1655,29	-579,23	-8606,36	-261,59
K30X25	bawah	3500	3750	3622,25	834,64	466,86	8157,47	-1655,29	-579,23	-8606,36	-261,59
K30X25	atas		250	2926	455,34	273,11	3991,65	-3030,11	-843,4	-3439,42	-213,13
K30X25	bawah	3500	3750	2926	455,34	370,11	3991,65	-3030,11	-843,4	-3439,42	-213,13
K30X25	atas		250	3291,41	924,76	-1,06,32	6390,4	-185,29	-93,63	-13183,29	141,86
K30X25	bawah	3500	3750	3291,41	924,76	-1,06,32	6390,4	-185,29	-93,63	-13183,29	141,86
K30X25	atas		250	4055,11	582,54	103,04	5890,44	-2,95	-48,2	-8771,9	87,14
K30X25	bawah	3500	3750	4055,11	582,54	103,04	5890,44	-2,95	-48,2	-8771,9	87,14
K30X25	atas		250	3280,76	289,72	-28,13	1569,36	2389,3	479,75	-3882,72	228,56
K30X25	bawah	3500	3750	3280,76	289,74	-28,13	1569,36	2389,3	479,75	-3882,72	228,56
K30X25	atas		250	3165,1	499,07	142,72	6414,36	720,15	231,67	-13188,26	23,12
K30X25	bawah	3500	3750	3165,1	499,07	142,72	6414,36	720,15	231,67	-13188,26	23,12
K30X25	atas		250	3964,8	679,07	-98,15	5401,52	223,33	108,5	-8770,81	-19,13
K30X25	bawah	3500	3750	3964,8	679,07	-98,15	5401,52	223,33	108,5	-8770,81	-19,13
K30X25	atas		250	513,65	-228,3	3,2	1921,46	-2304,02	-457,54	-2883,62	-234,61
K30X25	bawah	3500	3750	513,65	-228,3	3,2	1921,46	-2304,02	-457,54	-2883,62	-234,61
K30x25	atas		250	3714,01	937,18	-523,45	10400,85	1869,71	690,03	-9719,11	766,55
K30X25	bawah	3500	3750	3714,01	937,18	-523,45	10400,85	1869,71	686,83	-9719,11	766,55
K30x25	atas		250	3592,72	863,2	-460,63	9220,76	1807,56	610,15	-8603,93	337,87
K30X25	bawah	3500	3750	3592,72	863,2	-460,63	9223,76	1807,56	610,18	-8603,93	337,87
K30X25	atas		250	3156,08	483,99	-252,86	5046,56	3109,33	857,08	-3440,95	228,85
K30X25	bawah	3500	3750	3156,08	483,99	-252,86	5046,56	3109,33	857,08	-3440,95	228,85
K30X25	atas		250	1501,65	162,58	310,43	10971,83	-5569,53	-2050,84	6103,2	-1358,83
K30X25	bawah	3500	3750	1501,65	162,58	310,43	10971,83	-5569,53	-2050,84	6103,2	-1358,83
K30X25	atas		250	1527,83	74,54	281,27	6734,36	-5862,9	-2051,72	-4204,96	-780,54
K30X25	bawah	3500	3750	1527,83	74,54	281,27	6734,36	-5862,9	-2051,72	-4204,96	-780,54
K30X25	atas		250	1191,48	30,34	202,85	2350,8	-6812,57	-2390,89	-1796,15	-795,46
K30X25	bawah	3500	3750	1191,48	30,34	202,85	2350,8	-6812,57	-2390,89	-1796,15	-795,46
6K30x50	atas		250	28350,84	9757,93	650,86	103700,11	-13518,3	-5997,07	-84668,14	-435,17
6K30X50	bawah	400	650	28830,84	9757,93	690,86	103700,11	-13518,3	-5997,07	-84668,14	-435,17
6K30X50	atas		350	10780,08	3620,54	651,22	42830,09	20005,76	1528,71	-8119217	513,83
6K30X50	bawah	2400	2750	10780,08	3920,54	651,22	42830,09	20005,76	1528,71	-8119217	513,83
6K30X50	atas		250	46740,23	17611,83	8186,06	76441,78	40555,58	4112,61	-26078,01	2406,64
6K30X50	bawah	400	650	46740,23	17611,83	8186,06	76441,78	40555,58	4112,61	-26078,01	2406,64
6K30X50	atas		350	12984,22	4979,7	1419,04	29337,88	19374,79	214,93	-24060,15	-1053,12
6K30X50	bawah	2400	2750	12984,22	4979,7	1419,04	29337,88	19374,79	214,93	-24060,15	-1053,12
6K30X50	atas		200	42,25	881,11	1226,31	13907,87	1579,12	-1975,77	-7945,73	1048,61
6K30X50	bawah	2750	2960	-42,25	881,11	1226,31	13907,87	1579,12	-1975,77	-7945,79	1048,61
6K30X50	atas		250	6858,55	1272,94	-238,43	41524,8	-2853,27	-718,65	-7229,35	-944,85
6K30X50	bawah	240	490	6858,55	1272,94	-238,43	41524,8	-2853,27	-718,65	-7229,35	-944,85
6K30X50	atas		250	29803,37	10155,22	-639,93	104418,4	9822,47	4371,93	-84203,08	-526,01
6K30X50	bawah	400	650	29803,37	10155,22	-639,93	104418,4	9822,47	4371,93	-84203,08	-526,01
6K30X50	atas		350	10071,88	3766,84	-626,01	42914,53	-16871,1	-925,24	-81217,8	-302,12
6K30X50	bawah	2400	2750	10071,88	3766,84	-626,01	42914,53	-16871,1	-925,24	-81217,8	-302,12
6K30X50	atas		250	45444,96	17526,03	-8150,19	76550,65	-40605,6	-8101,57	-25760,83	-2368,69
6K30X50	bawah	400	650	45444,96	17526,03	-8150,19	76550,65	-40605,6	-8101,57	-25760,83	-2368,69
6K30X50	atas		350	12721,65	4931,03	-1414,07	29458,93	-16853,6	-56,99	-24251,45	1211,57
6K30X50	bawah	2400	2750	12721,65	4931,03	-1414,07	29458,93	-16853,6	-56,99	-24251,46	1211,57
6K30X50	atas		200	171,45	952,54	-1260,03	14151,58	-1983,96	1980,77	-7780,23	-1159,77
6K30X50	bawah	2780	2960	171,45	952,54	-1260,03	14151,58	-1983,96	1980,77	-7780,23	-1159,77
6K30X50	atas		250	7887,26	1396,77	151,27	41650,4	2869,33	704,81	-8210,11	874,21
6K30X50	bawah	240	490	7887,26	1396,77	151,27	41650,4	2869,33	704,81	-8210,11	874,21

Keterangan Lampiran Gaya Geser Balok

1. Kolom yang ditinjau
2. Letak yang ditinjau
3. ln = panjang bersih kolom
4. Lokasi yang ditinjau
5. VD = Gaya geser kolom akibat beban mati sejajar sb -y
6. VL = Gaya geser kolom akibat beban hidup sejajar sb -y
7. Vekiy = Gaya geser kolom akibat beban gempa kanan sejajar sb -y
8. Vekki = Gaya geser kolom akibat beban gempa kiri sejajar sb -y
9. VD = Gaya geser kolom akibat beban mati sejajar sb -x
10. VL = Gaya geser kolom akibat beban hidup sejajar sb -x
11. Vekkx = Gaya geser kolom akibat beban gempa kanan sejajar sb -x
12. Vekki = Gaya geser kolom akibat beban gempa kiri sejajar sb -x



sOony & Ochie. Engineer
Kampus D3 Ekonomi UII Block B

S T A T I C L O A D C A S E S

STATIC CASE	LOAD TYPE	SELF WT FACTOR
DL	DEAD	1,0000
LL	LIVE	0,0000
WL	WIND	0,0000
WS	WIND	0,0000

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Kampus D3 Ekonomi UII Block B

J O I N T F O R C E S Load Case DL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
71	0,000	0,000	-223,318	0,000	0,000	0,000
67	0,000	0,000	-223,318	0,000	0,000	0,000
70	0,000	0,000	-223,318	0,000	0,000	0,000
66	0,000	0,000	-223,318	0,000	0,000	0,000
12	0,000	0,000	-304,079	0,000	0,000	0,000
8	0,000	0,000	-304,079	0,000	0,000	0,000
9	0,000	0,000	-304,079	0,000	0,000	0,000
5	0,000	0,000	-304,079	0,000	0,000	0,000
28	0,000	0,000	-328,368	0,000	0,000	0,000
26	0,000	0,000	-328,368	0,000	0,000	0,000
27	0,000	0,000	-328,368	0,000	0,000	0,000
25	0,000	0,000	-328,368	0,000	0,000	0,000
54	0,000	0,000	-281,136	0,000	0,000	0,000
52	0,000	0,000	-281,136	0,000	0,000	0,000
53	0,000	0,000	-281,136	0,000	0,000	0,000
51	0,000	0,000	-281,136	0,000	0,000	0,000
16	0,000	0,000	-279,912	0,000	0,000	0,000
2	0,000	0,000	-279,912	0,000	0,000	0,000
15	0,000	0,000	-279,912	0,000	0,000	0,000
1	0,000	0,000	-279,912	0,000	0,000	0,000
70	0,000	0,000	-509,858	0,000	0,000	0,000
75	0,000	0,000	-509,858	0,000	0,000	0,000
62	0,000	0,000	-509,858	0,000	0,000	0,000
64	0,000	0,000	-509,858	0,000	0,000	0,000
30	0,000	0,000	-299,083	0,000	0,000	0,000
34	0,000	0,000	-299,083	0,000	0,000	0,000
29	0,000	0,000	-299,083	0,000	0,000	0,000
23	0,000	0,000	-299,083	0,000	0,000	0,000
56	0,000	0,000	-248,321	0,000	0,000	0,000
50	0,000	0,000	-248,321	0,000	0,000	0,000
55	0,000	0,000	-248,321	0,000	0,000	0,000
49	0,000	0,000	-248,321	0,000	0,000	0,000
76	0,000	0,000	-186,546	0,000	0,000	0,000
63	0,000	0,000	-186,546	0,000	0,000	0,000
72	0,000	0,000	-186,546	0,000	0,000	0,000
81	0,000	0,000	-186,546	0,000	0,000	0,000
61	0,000	0,000	-656,697	0,000	0,000	0,000
79	0,000	0,000	-656,697	0,000	0,000	0,000
80	0,000	0,000	-656,697	0,000	0,000	0,000
78	0,000	0,000	-656,697	0,000	0,000	0,000
82	0,000	0,000	-86,472	0,000	0,000	0,000

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Kampus D3 Ekonomi UII Block B

J O I N T F O R C E S Load Case LL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
82	0,000	0,000	-100,000	0,000	0,000	0,000
81	0,000	0,000	-100,000	0,000	0,000	0,000
78	0,000	0,000	-100,000	0,000	0,000	0,000

57	0,000	0,000	-100,000	0,000	0,000	0,000
16	0,000	0,000	-100,000	0,000	0,000	0,000
10	0,000	0,000	-100,000	0,000	0,000	0,000
11	0,000	0,000	-100,000	0,000	0,000	0,000
38	0,000	0,000	-100,000	0,000	0,000	0,000
54	0,000	0,000	-100,000	0,000	0,000	0,000
71	0,000	0,000	-100,000	0,000	0,000	0,000
79	0,000	0,000	-100,000	0,000	0,000	0,000
69	0,000	0,000	-100,000	0,000	0,000	0,000
50	0,000	0,000	-100,000	0,000	0,000	0,000
24	0,000	0,000	-100,000	0,000	0,000	0,000
2	0,000	0,000	-100,000	0,000	0,000	0,000
3	0,000	0,000	-100,000	0,000	0,000	0,000
42	0,000	0,000	-100,000	0,000	0,000	0,000
15	0,000	0,000	-100,000	0,000	0,000	0,000
67	0,000	0,000	-100,000	0,000	0,000	0,000
60	0,000	0,000	-100,000	0,000	0,000	0,000
72	0,000	0,000	-100,000	0,000	0,000	0,000
39	0,000	0,000	-100,000	0,000	0,000	0,000
29	0,000	0,000	-100,000	0,000	0,000	0,000
19	0,000	0,000	-100,000	0,000	0,000	0,000
9	0,000	0,000	-100,000	0,000	0,000	0,000
53	0,000	0,000	-100,000	0,000	0,000	0,000
27	0,000	0,000	-100,000	0,000	0,000	0,000
70	0,000	0,000	-100,000	0,000	0,000	0,000
78	0,000	0,000	-100,000	0,000	0,000	0,000
61	0,000	0,000	-100,000	0,000	0,000	0,000
40	0,000	0,000	-100,000	0,000	0,000	0,000
23	0,000	0,000	-100,000	0,000	0,000	0,000
1	0,000	0,000	-100,000	0,000	0,000	0,000
5	0,000	0,000	-100,000	0,000	0,000	0,000
31	0,000	0,000	-100,000	0,000	0,000	0,000
35	0,000	0,000	-100,000	0,000	0,000	0,000
66	0,000	0,000	-100,000	0,000	0,000	0,000
73	0,000	0,000	-100,000	0,000	0,000	0,000
75	0,000	0,000	-100,000	0,000	0,000	0,000
62	0,000	0,000	-100,000	0,000	0,000	0,000
64	0,000	0,000	-100,000	0,000	0,000	0,000
32	0,000	0,000	-100,000	0,000	0,000	0,000
31	0,000	0,000	-100,000	0,000	0,000	0,000

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sUcuy c Orhe. Engineer
Kampus D3 Ekonomi UII Block B

J O I N T F O R C E S Load Case WL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
80	-18,070	0,000	-2,010	0,000	0,000	0,000
81	-122,400	0,000	-122,400	0,000	0,000	0,000
78	-23,700	0,000	-23,700	0,000	0,000	0,000
56	-42,430	0,000	-42,430	0,000	0,000	0,000
16	-58,970	0,000	-58,970	0,000	0,000	0,000
36	-54,400	0,000	-54,400	0,000	0,000	0,000
10	-93,550	0,000	-93,550	0,000	0,000	0,000
20	-89,100	0,000	-89,100	0,000	0,000	0,000
54	-89,100	0,000	-89,100	0,000	0,000	0,000
71	-70,850	0,000	-70,850	0,000	0,000	0,000
79	-122,400	0,000	-122,400	0,000	0,000	0,000
65	-23,700	0,000	-23,700	0,000	0,000	0,000
52	-42,430	0,000	-42,430	0,000	0,000	0,000
24	-59,400	0,000	-59,400	0,000	0,000	0,000
2	-58,970	0,000	-58,570	0,000	0,000	0,000
8	-93,550	0,000	-93,550	0,000	0,000	0,000
52	-56,100	0,000	-69,100	0,000	0,000	0,000
28	-89,100	0,000	-89,100	0,000	0,000	0,000
67	-70,850	0,000	-70,850	0,000	0,000	0,000
80	-97,920	0,000	97,920	0,000	0,000	0,000
78	-19,000	0,000	19,000	0,000	0,000	0,000
55	-33,950	0,000	77,950	0,000	0,000	0,000
29	-47,520	0,000	47,520	0,000	0,000	0,000
15	-47,180	0,000	47,180	0,000	0,000	0,000
9	-74,840	0,000	74,840	0,000	0,000	0,000
53	-71,280	0,000	71,280	0,000	0,000	0,000
27	-71,280	0,000	71,280	0,000	0,000	0,000
70	-56,680	0,000	56,680	0,000	0,000	0,000
78	-97,920	0,000	97,920	0,000	0,000	0,000
61	-19,000	0,000	19,000	0,000	0,000	0,000

49	-83,950	0,000	83,950	0,000	0,000	0,000
33	-47,520	0,000	47,520	0,000	0,000	0,000
1	-47,180	0,000	47,180	0,000	0,000	0,000
5	-74,840	0,000	74,840	0,000	0,000	0,000
51	-71,280	0,000	71,280	0,000	0,000	0,000
19	-71,280	0,000	71,280	0,000	0,000	0,000
66	-56,670	0,000	56,670	0,000	0,000	0,000

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Ajony - Sche. Engineer
Kampus D3 Ekonomi UII Block E

J O I N T F O R C E S Load Case WS

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
82	16,070	0,000	-2,010	0,000	0,000	0,000
80	132,400	0,000	-132,400	0,000	0,000	0,000
72	23,700	0,000	-23,700	0,000	0,000	0,000
68	42,430	0,000	-42,430	0,000	0,000	0,000
29	99,400	0,000	-99,400	0,000	0,000	0,000
15	56,670	0,000	-56,670	0,000	0,000	0,000
9	93,550	0,000	-93,550	0,000	0,000	0,000
53	89,100	0,000	-89,100	0,000	0,000	0,000
47	103,950	0,000	-103,950	0,000	0,000	0,000
70	70,850	0,000	-70,850	0,000	0,000	0,000
78	122,400	0,000	-122,400	0,000	0,000	0,000
61	23,700	0,000	-23,700	0,000	0,000	0,000
45	42,430	0,000	-42,430	0,000	0,000	0,000
23	59,400	0,000	-59,400	0,000	0,000	0,000
11	56,670	0,000	-56,670	0,000	0,000	0,000
5	93,550	0,000	-93,550	0,000	0,000	0,000
51	89,100	0,000	-89,100	0,000	0,000	0,000
25	103,950	0,000	-103,950	0,000	0,000	0,000
67	70,850	0,000	-70,850	0,000	0,000	0,000
81	122,400	0,000	-122,400	0,000	0,000	0,000
79	132,400	0,000	-132,400	0,000	0,000	0,000
75	19,000	0,000	-19,000	0,000	0,000	0,000
65	19,000	0,000	-19,000	0,000	0,000	0,000
71	56,680	0,000	-56,680	0,000	0,000	0,000
67	56,680	0,000	-56,680	0,000	0,000	0,000
56	33,950	0,000	-33,950	0,000	0,000	0,000
50	33,950	0,000	-33,950	0,000	0,000	0,000
54	71,260	0,000	-71,260	0,000	0,000	0,000
52	71,280	0,000	-71,280	0,000	0,000	0,000
30	47,520	0,000	-47,520	0,000	0,000	0,000
24	47,520	0,000	-47,520	0,000	0,000	0,000
28	83,160	0,000	-83,160	0,000	0,000	0,000
26	83,160	0,000	-83,160	0,000	0,000	0,000
16	47,180	0,000	-47,180	0,000	0,000	0,000
2	47,180	0,000	-47,180	0,000	0,000	0,000
12	74,840	0,000	-74,840	0,000	0,000	0,000
8	74,840	0,000	-74,840	0,000	0,000	0,000

Ricky & Ochie. Engineer
Kampus UI Kemiroman UNY Block B

L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
DSTL1	ADD				DSTL1
		DL	1,4000	STATIC(DEAD)	
DSTL2	ADD				DSTL2
		DL	1,2000	STATIC(DEAD)	
		LL	1,6000	STATIC(LIVE)	
DSTL3	ADD				DSTL3
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WL	1,3000	STATIC(WIND)	
DSTL4	ADD				DSTL4
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WL	-1,3000	STATIC(WIND)	
DSTL5	ADD				DSTL5
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WL	1,3000	STATIC(WIND)	
DSTL6	ADD				DSTL6
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WL	-1,3000	STATIC(WIND)	
DSTL7	ADD				DSTL7
		DL	0,9000	STATIC(DEAD)	
		WL	1,3000	STATIC(WIND)	
DSTL8	ADD				DSTL8
		DL	0,9000	STATIC(DEAD)	
		WL	-1,3000	STATIC(WIND)	
DSTL9	ADD				DSTL9
		DL	0,9000	STATIC(DEAD)	
		WL	1,3000	STATIC(WIND)	
DSTL10	ADD				DSTL10
		DL	0,9000	STATIC(DEAD)	
		WL	-1,3000	STATIC(WIND)	
COMB1	ADD				COMB1
		DL	1,0000	STATIC(DEAD)	
COMB2	ADD				COMB2
		LL	1,0000	STATIC(LIVE)	

Ricky & Ochie. Engineer
Kampus UI Kemiroman UNY Block B

F R A M E E L E M E N T F O R C E S

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
GA1	Minimum		-1102,91	-40,13	-5,181E-01	0,00	-968,59	-72214,20
		WR	DSTL3		WL	COMB2	DSTL5	DSTL3
GA1	Maximum		7855,20	131,93	1,37	0,00	966,63	51585,01
		DSTL3	DSTL3		DSTL5	COMB2	DSTL5	DSTL3
GA2	Minimum		-1100,97	-40,28	-1,53	0,00	-1079,86	-72201,33
		WR	DSTL6		DSTL4	COMB2	DSTL4	DSTL3
GA2	Maximum		7855,25	131,91	6,612E-01	0,00	1079,86	51572,04
		DSTL3	DSTL3		WL	COMB2	DSTL4	DSTL3
GA3	Minimum		-740,45	-133,41	-2,77	0,00	-2610,12	-1098245,69
		WR	WR		WL	COMB2	DSTL5	DSTL3
GA3	Maximum		10190,98	606,16	7,36	0,00	2610,12	2040080,04
		DSTL2	DSTL3		DSTL5	COMB2	DSTL5	DSTL3
GA4	Minimum		-740,55	-135,50	-8,03	0,00	-2610,16	-1098283,77

		WR	WR	DSTL4	COMB2	DSTL4	DSTL3
GA4	Maxima	15140,74	606,10	1,52	0,00	8810,18	204058,12
		DSTL2	DSTL3	WL	COMB2	DSTL4	DSTL3
GA5	Minima	-695,80	-71,00	-2,59	0,00	-4583,51	-179760,00
		WR	WR	WL	COMB2	DSTL5	DSTL3
GA5	Maxima	3067,17	344,57	3,45	0,00	4600,51	158649,80
		DSTL2	DSTL3	DSTL5	COMB2	DSTL5	DSTL3
GA6	Minima	-606,51	-71,07	-10,73	0,00	-5585,09	-179738,50
		WR	WR	DSTL5	COMB2	DSTL6	DSTL3
GA6	Maxima	3668,58	387,63	4,19	0,00	5585,09	169628,84
		DSTL2	DSTL3	WL	COMB2	DSTL6	DSTL3
GA7	Minima	-2000,16	-27,87	-9,84	0,00	-8508,58	-110206,94
		DSTL4	WR	DSTL5	COMB2	DSTL3	DSTL3
GA7	Maxima	636,51	173,78	11,35	0,00	8389,52	85206,39
		WL	DSTL3	DSTL3	COMB2	DSTL6	DSTL3
GA8	Maxima	-2001,30	-27,89	-10,43	0,00	-8104,05	-110173,92
		DSTL4	WR	DSTL5	COMB2	DSTL3	DSTL3
GA8	Maxima	632,68	173,75	8,10	0,00	8104,05	85146,98
		WL	DSTL3	DSTL5	COMB2	DSTL3	DSTL3
GB1	Minima	-6977,78	-138,75	-1,37	0,00	-1027,53	-71522,15
		DSTL3	DSTL3	DSTL5	COMB2	DSTL5	DSTL3
GB1	Maxima	1634,41	45,36	5,151E-01	0,00	1027,53	38083,53
		WR	DSTL4	WL	COMB2	DSTL5	DSTL3
GB2	Minima	-6977,78	-138,73	-6,613E-01	0,00	-1145,54	-71503,94
		DSTL3	DSTL3	WL	COMB2	DSTL4	DSTL3
GB2	Maxima	1634,40	45,45	1,93	0,00	1145,54	38071,31
		WR	DSTL4	DSTL4	COMB2	DSTL4	DSTL3
GB3	Minima	-12016,31	-73,08	-6,81	0,00	-7301,58	-172597,47
		DSTL2	WL	WL	COMB2	DSTL4	DSTL3
GB3	Maxima	679,39	388,87	15,60	0,00	7301,58	160939,29
		WL	DSTL3	DSTL4	COMB2	DSTL4	DSTL3
GB4	Minima	-13040,09	-73,19	-17,13	0,00	-8018,25	-172569,42
		DSTL2	WR	DSTL4	COMB2	DSTL4	DSTL3
GB4	Maxima	683,26	388,14	9,17	0,00	8018,25	160005,31
		WL	DSTL3	WL	COMB2	DSTL4	DSTL3
GB5	Minima	-5767,56	-30,68	-7,49	0,00	-11155,39	-119037,40
		DSTL4	WR	WL	COMB2	DSTL4	DSTL3
GB5	Maxima	982,79	198,87	15,16	0,00	11155,39	96410,40
		WL	DSTL3	DSTL4	COMB2	DSTL4	DSTL3
GB6	Minima	-5770,43	-30,89	-16,14	0,00	-11955,74	-118986,63
		DSTL4	WR	DSTL4	COMB2	DSTL4	DSTL3
GB6	Maxima	986,71	193,76	8,48	0,00	11955,74	95353,32
		WL	DSTL3	WL	COMB2	DSTL4	DSTL3
GD1	Minima	-8564,23	-195,57	-6,01	0,00	-9359,09	-101162,99
		DSTL3	DSTL3	DSTL5	COMB2	DSTL5	DSTL3
GD1	Maxima	1299,44	52,87	2,26	0,00	9359,09	90939,40
		WR	WR	WL	COMB2	DSTL5	DSTL3
GD2	Minima	-8564,20	-195,54	-8,40	0,00	-9746,22	-101145,56
		DSTL3	DSTL3	WL	COMB2	DSTL4	DSTL3
GD2	Maxima	1299,49	52,91	6,70	0,00	9746,22	92982,95
		WR	WR	DSTL4	COMB2	DSTL4	DSTL3
GD3	Minima	-828,91	-51,46	-1,35	0,00	-766,84	-118124,22
		WR	WR	DSTL3	COMB2	DSTL3	DSTL3
GD3	Maxima	8055,57	230,80	1,87	0,00	766,84	106648,41
		DSTL2	DSTL3	DSTL3	COMB2	DSTL3	DSTL3
GD4	Minima	-827,86	-51,47	-1,29	0,00	-752,71	-118065,89
		WR	WR	DSTL3	COMB2	DSTL3	DSTL3
GD4	Maxima	8058,35	230,63	1,30	0,00	752,71	106586,22
		DSTL2	DSTL3	DSTL3	COMB2	DSTL3	DSTL3
GD5	Minima	-773,12	-227,37	-11,33	0,00	-13012,62	-122837,95
		WL	DSTL3	WL	COMB2	DSTL4	DSTL3
GD5	Maxima	4816,47	40,27	20,77	0,00	13012,62	102217,93
		DSTL4	WR	DSTL4	COMB2	DSTL4	DSTL3
GD6	Minima	-773,71	-227,31	-21,79	0,00	-13646,43	-122800,51
		WL	DSTL3	DSTL4	COMB2	DSTL4	DSTL3
GD6	Maxima	4815,11	40,30	12,30	0,00	13646,43	102180,50
		DSTL4	WR	WL	COMB2	DSTL4	DSTL3
GV1	Minima	-18715,05	-90,03	-1,25	0,00	-2502,47	-86366,28
		DSTL2	WR	WL	COMB2	DSTL5	DSTL3
GV1	Maxima	340,43	116,16	0,34	0,00	2502,47	86366,98

		WP	DSTL3	DSTL4	COMB2	DSTL5	DSTL3
GV1	Minimum	-17719,76	-30,05	-3,71	0,00	-2790,14	-66866,02
		DSTL2	WP	DSTL4	COMB2	DSTL4	DSTL3
GV1	Maximum	946,84	135,14	1,61	0,00	1790,14	26355,21
		WP	DSTL3	WL	COMB2	DSTL4	DSTL3
GV3	Minimum	-10668,15	-40,40	-3,709E-01	0,00	-1571,44	-42518,54
		DSTL1	WP	WL	COMB2	DSTL4	DSTL1
GV3	Maximum	470,43	117,39	1,93	0,00	3532,44	91524,47
		WP	DSTL3	DSTL5	COMB2	DSTL5	DSTL3
GV4	Minimum	-10686,14	-10,40	-8,06	0,00	-1787,21	-82473,74
		DSTL2	WP	DSTL5	COMB2	DSTL6	DSTL2
GV4	Maximum	476,72	117,15	6,880E-01	0,00	1787,21	82477,42
		WP	DSTL2	WL	COMB2	DSTL5	DSTL3
HA1	Minimum	-1089,89	-47,05	-7,644E-01	0,00	-854,56	-70450,75
		WL	DSTL10	DSTL6	COMB2	DSTL6	DSTL6
HA1	Maximum	7849,91	120,84	8,869E-01	0,00	554,56	49821,48
		DSTL6	DSTL5	WP	COMB2	DSTL6	DSTL5
HA2	Minimum	-1089,95	-47,93	-3,798E-01	0,00	-848,31	-70425,81
		WL	DSTL10	WP	COMB2	DSTL6	DSTL5
HA2	Maximum	7849,96	108,86	8,169E-01	0,00	848,31	49836,54
		DSTL5	DSTL6	DSTL6	COMB2	DSTL6	DSTL5
HA3	Minimum	-825,30	-24,60	-4,83	0,00	-3838,34	-121879,27
		WL	WL	DSTL6	COMB2	DSTL6	DSTL6
HA3	Maximum	10345,72	179,84	1,53	0,00	3838,34	98149,97
		DSTL2	DSTL5	WP	COMB2	DSTL6	DSTL5
HA4	Minimum	-826,40	-24,61	-1,04	0,00	-4190,88	-121886,15
		WL	WL	WP	COMB2	DSTL6	DSTL5
HA4	Maximum	10345,71	179,84	4,84	0,00	4190,88	98156,95
		DSTL2	DSTL5	DSTL6	COMB2	DSTL6	DSTL5
HA5	Minimum	-1997,60	-26,84	-12,74	0,00	-3210,51	-108531,95
		DSTL5	WL	DSTL5	COMB2	DSTL5	DSTL5
HA5	Maximum	618,16	171,88	11,08	0,00	3838,51	83851,41
		WP	DSTL5	DSTL10	COMB2	DSTL5	DSTL5
HA6	Minimum	-1999,98	-10,86	-10,98	0,00	-3838,12	-108584,10
		DSTL6	WL	DSTL10	COMB2	DSTL5	DSTL5
HA6	Maximum	617,04	171,80	12,46	0,00	3692,12	83852,59
		WP	DSTL5	DSTL5	COMB2	DSTL5	DSTL5
HB1	Minimum	-5772,20	-136,70	-1,848E-01	0,00	-698,33	-69696,11
		DSTL5	DSTL5	WP	COMB2	DSTL6	DSTL5
HB1	Maximum	1531,30	71,24	7,844E-01	0,00	698,33	36847,49
		WL	DSTL6	DSTL6	COMB2	DSTL6	DSTL6
HB2	Minimum	-5772,25	-136,73	-8,169E-01	0,00	-687,70	-69700,35
		DSTL5	DSTL5	DSTL6	COMB2	DSTL6	DSTL5
HB2	Maximum	1531,37	71,23	3,793E-01	0,00	687,70	36861,73
		WL	DSTL6	WP	COMB2	DSTL6	DSTL5
HB3	Minimum	-5728,45	-57,30	-4,27	0,00	-5147,25	-102626,31
		DSTL6	DSTL6	DSTL6	COMB2	DSTL6	DSTL5
HB3	Maximum	1188,02	137,77	8,26	0,00	5147,25	89460,73
		WP	DSTL5	WP	COMB2	DSTL6	DSTL5
HB4	Minimum	-5732,99	-67,21	-2,52	0,00	-5532,37	-102630,96
		DSTL6	DSTL6	WP	COMB2	DSTL6	DSTL5
HB4	Maximum	1189,57	137,79	4,68	0,00	6692,97	89452,08
		WP	DSTL5	DSTL6	COMB2	DSTL6	DSTL6
HD1	Minimum	-5400,51	-191,75	-1,25	0,00	-1923,31	-99027,75
		DSTL5	DSTL5	WP	COMB2	DSTL5	DSTL6
HD1	Maximum	1021,74	50,81	8,44	0,00	1923,31	90864,15
		WL	WL	DSTL6	COMB2	DSTL6	DSTL6
HD2	Minimum	-5400,49	-191,79	-4,02	0,00	-2248,15	-99046,88
		DSTL5	DSTL5	DSTL6	COMB2	DSTL6	DSTL5
HD2	Maximum	1021,71	50,86	1,55	0,00	2248,15	90858,29
		WL	WL	WP	COMB2	DSTL6	DSTL6
HD3	Minimum	-16258,84	-15,89	-2,09	0,00	-7410,11	-81934,98
		DSTL2	DSTL10	DSTL6	COMB2	DSTL6	DSTL5
HD3	Maximum	643,96	92,28	7,584E-01	0,00	2410,11	58054,10
		WL	DSTL5	WP	COMB2	DSTL6	DSTL5
HD4	Minimum	-16258,68	-15,90	-1,01	0,00	-2817,17	-82941,55
		DSTL2	DSTL10	WP	COMB2	DSTL6	DSTL5
HD4	Maximum	641,92	92,29	2,44	0,00	2817,17	59960,67
		WL	DSTL5	DSTL6	COMB2	DSTL6	DSTL5

MD9	Minima	-915,61	-214,43	-17,00	0,00	-10648,79	10600,44
		WB	DSTL4	DSTL2	CONE2	DSTL6	DSTL5
MD9	Maxima	4440,05	98,54	13,04	0,00	1048,05	10540,41
		DSTL1	WL	DSTL4	CONE1	DSTL4	DSTL1
MD6	Minima	-911,42	-214,79	-13,66	0,00	11052,56	-12048,75
		WB	DSTL5	DSTL2	CONE2	DSTL4	DSTL5
MD6	Maxima	5844,61	98,62	17,74	0,00	12054,85	10484,75
		DSTL4	WL	DSTL4	CONE1	DSTL4	DSTL4
MD7	Minima	-894,01	11,97	-4,5458E-01	0,00	-40,45	10500,46
		CONE2	DSTL10	DSTL2	CONE2	DSTL5	DSTL5
MD7	Maxima	1750,40	12,30	1,6113E-01	0,00	48,45	11500,46
		DSTL1	DSTL5	WL	CONE1	DSTL4	DSTL5
H1A1	Minima	-4842,40	-68,51	-131,24	0,00	-9059460,97	-894011,71
		DSTL5	DSTL4	WL	CONE2	DSTL5	DSTL5
H1A1	Maxima	1961,90	69,05	-0,1,67	0,00	9059463,97	14169,46
		DSTL10	DSTL5	DSTL5	CONE1	DSTL5	WB
H1A2	Minima	-4034,01	-69,98	-33,39	0,00	-22408,06	-18671,61
		DSTL5	DSTL1	DSTL4	CONE1	DSTL5	DSTL1
H1A2	Maxima	1968,40	73,05	0,00	0,00	22803,05	7758,10
		WL	DSTL1	WL	CONE1	DSTL5	DSTL1
H1A3	Minima	-4814,01	-64,85	-7,86	0,10	-21960,61	-19190,79
		DSTL5	DSTL1	WL	CONE1	DSTL5	DSTL1
H1A3	Maxima	1969,40	70,07	34,02	0,00	22960,41	7758,10
		WL	DSTL1	DSTL6	CONE1	DSTL5	DSTL1
H1A4	Minima	-4645,01	-70,03	-909,86	0,00	-9042284,88	-34020,19
		DSTL5	DSTL5	DSTL5	CONE2	DSTL5	DSTL5
H1A4	Maxima	1968,07	89,87	125,56	0,00	9042284,88	14818,59
		DSTL10	DSTL5	WL	CONE1	DSTL5	WB
H1A5	Minima	-0953,10	-84,83	-806,57	0,00	-5004438,16	-30689,50
		DSTL3	DSTL4	DSTL3	CONE2	DSTL3	DSTL4
H1A5	Maxima	1090,05	84,42	127,02	0,00	4940284,16	13854,89
		DSTL3	DSTL3	WB	CONE1	DSTL3	WL
H1A6	Minima	-41140,74	-65,45	-9,98	0,00	-210847,83	-17955,02
		DSTL3	DSTL1	WB	CONE2	DSTL3	DSTL1
H1A6	Maxima	1846,51	72,47	74,62	0,00	10047,89	7758,10
		WB	DSTL1	DSTL2	CONE2	DSTL3	DSTL1
H1A7	Minima	-41140,90	-68,35	-94,96	0,00	-210194,83	-17952,54
		DSTL3	DSTL1	DSTL3	CONE2	DSTL3	DSTL1
H1A7	Maxima	1846,50	72,57	8,16	0,00	10194,83	7758,10
		WB	DSTL1	WB	CONE1	DSTL3	DSTL1
H1A8	Minima	-0988,72	-84,77	-125,43	0,00	-5040468,16	-30618,98
		DSTL3	DSTL4	WB	CONE2	DSTL3	DSTL4
H1A8	Maxima	1997,44	84,53	803,65	0,00	4940468,16	13860,08
		DSTL8	DSTL3	DSTL5	CONE1	DSTL3	WL
H1B1	Minima	-6042,61	-69,14	9,1758E-01	0,00	-1940005,77	-40080,11
		DSTL3	DSTL6	WB	CONE2	DSTL2	DSTL5
H1B1	Maxima	1698,77	83,87	439,37	0,00	2040005,77	15452,77
		WB	DSTL5	DSTL2	CONE1	DSTL2	DSTL5
H1B2	Minima	-6355,61	-69,69	-28,58	0,00	-1940197,61	-21681,98
		DSTL6	DSTL1	WL	CONE2	DSTL5	DSTL6
H1B2	Maxima	2454,73	79,23	126,63	0,00	44147,01	7768,00
		WB	DSTL1	DSTL6	CONE1	DSTL5	DSTL1
H1B3	Minima	-6357,07	-68,67	-125,16	0,00	-85185,38	-28650,74
		DSTL6	DSTL1	DSTL5	CONE2	DSTL6	DSTL5
H1B3	Maxima	3456,75	79,13	28,97	0,00	85186,38	7758,00
		WB	DSTL1	WL	CONE1	DSTL5	DSTL1
H1B4	Minima	-8342,66	-69,10	-435,50	0,00	-2940015,30	-40891,94
		DSTL5	DSTL6	DSTL2	CONE2	DSTL6	DSTL6
H1B4	Maxima	1701,36	99,99	7,0008-01	0,00	2940013,30	15455,69
		WB	DSTL5	WB	CONE1	DSTL6	DSTL5
H1B5	Minima	-0578,34	-70,51	-408,84	0,00	-4720254,53	-36568,98
		DSTL5	DSTL4	DSTL2	CONE2	DSTL2	DSTL5
H1B5	Maxima	1677,56	84,17	0,68	0,00	4720254,58	19494,70
		WL	DSTL2	WL	CONE2	DSTL2	DSTL2
H1B6	Minima	-6555,74	-68,20	-117,30	0,00	-860348,26	-43121,50
		DSTL4	DSTL1	DSTL3	CONE2	DSTL3	DSTL3
H1B6	Maxima	2261,60	77,67	80,06	0,00	96040,20	7758,00
		WL	DSTL1	WB	CONE1	DSTL3	DSTL1
H1B7	Minima	-6559,01	-69,15	-29,97	0,00	-860366,05	-20159,99
		DSTL4	DSTL1	WB	CONE1	DSTL3	DSTL3

I1B7	Maxima	9244,05	77,70	107,91	0,00	86866,63	7757,00
		WL	DSTL1	DSTL8	CONS8	DSTL9	DSTL1
I1B8	Minima	-8865,80	-70,86	-4,84	0,00	-2720065,74	-870084,36
		DSTL5	DSTL4	WL	CONE2	DSTL2	DSTL3
I1B8	Maxima	4941,24	94,26	403,06	0,00	2720065,74	12514,89
		WL	DSTL3	DSTL2	CONS8	DSTL1	DSTL3
I1D1	Minima	-5101,40	-68,76	-3,80	0,00	-814604,30	-28871,13
		DSTL3	DSTL1	WL	CONE2	DSTL1	DSTL5
I1D1	Maxima	2849,16	69,90	84,34	0,00	51604,30	12476,09
		WR	DSTL1	DSTL7	CONE2	DSTL1	DSTL1
I1D2	Minima	-6,52	-67,84	-82,10	0,00	-100060,82	-16157,30
		WR	DSTL1	DSTL5	CONE2	DSTL5	DSTL1
I1D2	Maxima	496,25	70,07	11,05	0,00	100060,82	12475,21
		DSTL1	DSTL1	WL	CONE2	DSTL5	DSTL1
I1D3	Minima	-11,50	-67,84	-81,11	0,00	-100084,48	-26160,52
		WR	DSTL1	WL	CONE2	DSTL5	DSTL1
I1D3	Maxima	496,25	70,08	82,11	0,00	100084,42	12475,21
		DSTL1	DSTL1	DSTL9	CONE2	DSTL5	DSTL1
I1D4	Minima	-5105,31	-68,95	-84,42	0,00	-91610,87	-28981,19
		DSTL6	DSTL1	DSTL2	CONE2	DSTL2	DSTL5
I1D4	Maxima	8871,28	68,97	3,36	0,00	91681,87	12476,09
		WR	DSTL1	WL	CONS8	DSTL2	DSTL1
I1D5	Minima	-5878,50	-69,91	-74,98	0,00	-81314,14	-29108,24
		DSTL4	DSTL1	DSTL2	CONE2	DSTL2	DSTL4
I1D5	Maxima	2600,09	68,01	1,71	0,00	81314,14	12476,09
		WL	DSTL1	WR	CONE2	DSTL2	DSTL1
I1D6	Minima	-7,56	-68,07	-11,89	0,00	-101484,38	-26913,88
		WL	DSTL1	WR	CONE2	DSTL9	DSTL1
I1D6	Maxima	498,48	69,85	93,60	0,00	101484,86	12476,21
		DSTL1	DSTL1	DSTL9	CONE2	DSTL5	DSTL1
I1D7	Minima	-11,54	-68,04	-99,46	0,00	-101440,13	-28355,28
		WL	DSTL1	DSTL9	CONE2	DSTL9	DSTL1
I1D7	Maxima	498,74	69,84	21,93	0,00	101440,13	12476,21
		DSTL1	DSTL1	WR	CONE2	DSTL8	DSTL1
I1D8	Minima	-5076,49	-69,87	-1,80	0,00	-81222,87	-13060,11
		DSTL4	DSTL1	WR	CONE2	DSTL2	DSTL4
I1D8	Maxima	2602,07	68,09	74,53	0,00	81221,87	12476,09
		WL	DSTL1	DSTL8	CONS8	DSTL2	DSTL1
I1V1	Minima	-4081,30	-99,46	-15,13	0,00	-11864,15	-84551,30
		DSTL5	DSTL8	DSTL10	CONE2	DSTL8	DSTL8
I1V1	Maxima	871,12	22,77	14,81	0,00	11864,32	84590,87
		WL	WL	DSTL5	CONE1	DSTL10	DSTL5
I1V2	Minima	-903,41	-67,94	-3,820E-02	0,00	-29,92	-57746,59
		DSTL1	DSTL5	DSTL8	CONE2	DSTL9	DSTL5
I1V2	Maxima	5,63	15,56	7,964E-03	0,00	29,92	57746,59
		WR	WL	WR	CONE2	DSTL8	DSTL5
I1V3	Minima	-4090,90	-99,47	-14,84	0,00	-13821,20	-84555,87
		DSTL5	DSTL8	DSTL5	CONE2	DSTL10	DSTL8
I1V3	Maxima	869,87	22,79	15,09	0,00	13812,03	84605,64
		WL	WL	DSTL10	CONE2	DSTL10	DSTL5
I1V4	Minima	-4091,87	-23,64	-15,35	0,00	-13474,48	-85737,55
		DSTL5	WR	DSTL4	CONE2	DSTL4	DSTL3
I1V4	Maxima	872,48	100,36	10,54	0,00	13474,71	85737,78
		WR	DSTL5	DSTL7	CONE2	DSTL4	DSTL3
I1V5	Minima	-304,48	-16,11	-9,009E-01	0,00	-76,57	-58548,63
		DSTL1	WR	DSTL4	CONE2	DSTL4	DSTL3
I1V5	Maxima	5,13	68,88	1,717E-02	0,00	76,57	58548,63
		WL	DSTL3	WL	CONE1	DSTL4	DSTL5
I1V6	Minima	-4091,28	-23,65	-12,62	0,00	-13826,95	-85715,30
		DSTL5	WR	DSTL7	CONE2	DSTL4	DSTL1
I1V6	Maxima	871,24	100,33	15,68	0,00	13826,73	85715,53
		WR	DSTL3	DSTL4	CONE2	DSTL4	DSTL3
I2A1	Minima	-10086,16	-151,09	-15,63	0,00	-11496,02	-75383,93
		DSTL2	DSTL6	DSTL10	CONE1	DSTL5	DSTL6
I2A1	Maxima	844,57	19,97	17,02	0,00	11488,02	49734,77
		WL	DSTL8	DSTL5	CONE1	DSTL5	DSTL6
I2A2	Minima	-10007,50	-93,59	-6,85	0,00	-5039,79	-86661,01
		DSTL2	DSTL6	DSTL10	CONE2	DSTL8	DSTL6
I2A2	Maxima	-60,55	71,36	7,76	0,00	8036,79	13099,15
		WR	DSTL5	DSTL8	CONE2	DSTL5	DSTL6

I1A3	Minima	-10078,87	-93,84	-6,68	0,00	-5266,60	-58092,30
		D6TL2	D6TL6	D6TL7	COMB1	D6TL4	D6TL5
I1A3	Maxima	-77,33	96,14	7,65	0,00	5100,01	14150,80
		WB	D6TL5	D6TL4	COMB1	D6TL4	D6TL5
I1A4	Minima	-10015,40	-93,43	-11,47	0,00	-11191,25	-97006,41
		D6TL1	D6TL10	D6TL7	COMB1	D6TL4	D6TL5
I1A4	Maxima	725,10	136,45	14,36	0,00	11191,25	89406,14
		WB	D6TL5	D6TL4	COMB2	D6TL4	D6TL6
I2A5	Minima	10096,90	-151,00	-16,01	0,00	-10808,54	-91874,74
		D6TL2	D6TL6	D6TL5	COMB1	D6TL5	D6TL6
I2A5	Maxima	699,19	20,03	14,41	0,00	10808,54	48777,11
		WL	D6TL6	D6TL10	COMB1	D6TL5	D6TL6
I2A6	Minima	-10027,90	-98,96	-6,87	0,00	-4894,50	-59481,36
		D6TL2	D6TL6	D6TL5	COMB2	D6TL5	D6TL6
I2A6	Maxima	-68,84	71,44	5,91	0,00	4894,50	14098,83
		WB	D6TL5	D6TL10	COMB1	D6TL5	D6TL6
I2A7	Minima	-10012,69	-98,85	-4,68	0,00	-4511,07	-58023,97
		D6TL1	D6TL6	D6TL1	COMB2	D6TL5	D6TL5
I2A7	Maxima	-70,13	96,18	5,80	0,00	4511,07	14474,83
		WB	D6TL5	D6TL10	COMB2	D6TL5	D6TL6
I2A8	Minima	-10017,40	-19,41	-15,96	0,00	-10138,14	-77086,29
		D6TL2	D6TL10	D6TL4	COMB2	D6TL4	D6TL5
I2A8	Maxima	738,14	158,63	13,19	0,00	10098,14	80487,12
		WB	D6TL5	D6TL7	COMB2	D6TL4	D6TL5
I2B1	Minima	-9478,82	-151,54	-21,08	0,00	-14027,21	-76430,09
		D6TL3	D6TL6	D6TL5	COMB2	D6TL5	D6TL5
I2B1	Maxima	1497,84	18,69	20,05	0,00	14027,21	48831,20
		WB	WB	D6TL10	COMB2	D6TL5	D6TL5
I2B2	Minima	-831,21	-109,87	-6,26	0,00	-4107,05	-47115,89
		WL	D6TL6	D6TL5	COMB2	D6TL5	D6TL6
I2B2	Maxima	5311,71	80,81	6,05	0,00	4107,05	20627,03
		D6TL4	D6TL5	D6TL10	COMB2	D6TL5	D6TL6
I2B3	Minima	-902,11	-98,66	-5,80	0,00	-3861,08	-48054,37
		WB	D6TL6	D6TL4	COMB2	D6TL4	D6TL5
I2B3	Maxima	5896,07	112,08	6,35	0,00	3861,08	22455,52
		D6TL6	D6TL5	D6TL7	COMB1	D6TL4	D6TL6
I2B4	Minima	-8796,40	-16,08	-20,86	0,00	-13746,89	-78290,62
		D6TL5	WL	D6TL4	COMB2	D6TL4	D6TL5
I2B4	Maxima	3451,59	158,38	17,91	0,00	13745,03	51691,97
		WL	D6TL5	D6TL7	COMB2	D6TL4	D6TL5
I2B5	Minima	-9485,21	-152,62	-21,04	0,00	-14841,64	-76421,42
		D6TL9	D6TL3	D6TL10	COMB2	D6TL5	D6TL5
I2B5	Maxima	1498,67	15,66	22,90	0,00	14841,64	48822,57
		WB	WB	D6TL6	COMB2	D6TL5	D6TL5
I2B6	Minima	-835,77	-109,96	-7,24	0,00	-4807,52	-47215,98
		WL	D6TL6	D6TL10	COMB2	D6TL5	D6TL6
I2B6	Maxima	5515,61	80,87	7,07	0,00	4807,52	20618,13
		D6TL4	D6TL5	D6TL5	COMB2	D6TL5	D6TL4
I2B7	Minima	-926,52	-98,53	-6,71	0,00	-4751,83	-49089,69
		WB	D6TL6	D6TL7	COMB1	D6TL4	D6TL5
I2B7	Maxima	5068,06	112,13	7,04	0,00	4751,83	22490,73
		D6TL5	D6TL5	D6TL4	COMB2	D6TL4	D6TL5
I2B8	Minima	-8795,84	-15,04	-19,14	0,00	-14348,02	-76399,01
		D6TL6	WL	D6TL7	COMB2	D6TL4	D6TL6
I2B8	Maxima	1458,77	155,48	21,19	0,00	14348,02	51740,16
		WL	D6TL5	D6TL4	COMB2	D6TL4	D6TL5
I2D1	Minima	-1317,80	-64,65	-7,12	0,00	-8278,76	-44446,95
		WB	D6TL1	D6TL10	COMB2	D6TL5	D6TL6
I2D1	Maxima	10904,97	93,27	7,63	0,00	8278,76	14202,62
		D6TL6	D6TL1	D6TL5	COMB2	D6TL5	D6TL6
I2D2	Minima	-1550,82	-73,31	-1,86	0,00	-2137,29	-34159,78
		D6TL9	D6TL1	D6TL10	COMB2	D6TL5	D6TL6
I2D2	Maxima	2043,74	54,61	1,87	0,00	2137,29	12476,78
		D6TL6	D6TL1	D6TL5	COMB2	D6TL5	D6TL1
I2D3	Minima	-1688,47	-68,72	-1,64	0,00	-2127,97	-35165,43
		D6TL10	D6TL1	D6TL7	COMB2	D6TL4	D6TL5
I2D3	Maxima	2141,82	74,20	1,96	0,00	2127,97	12476,79
		D6TL5	D6TL1	D6TL4	COMB2	D6TL4	D6TL1
I2D4	Minima	-1843,72	-93,44	-6,47	0,00	-8065,24	-45311,45

		WL	DSTL1	DSTL7	COMB3	DSTL4	DSTL5
I4D4	Maxima	11027,55	85,63	7,43	0,00	8065,14	14440,96
		DSTL6	DSTL1	DSTL4	COMB2	DSTL4	DSTL5
I4D5	Minima	-1319,00	-91,64	-7,40	0,00	-3852,47	-44442,54
		WB	DSTL1	DSTL5	COMB2	DSTL5	DSTL6
I4D6	Maxima	10934,71	83,76	6,86	0,00	8055,42	14100,40
		DSTL5	DSTL1	DSTL10	COMB2	DSTL7	DSTL6
I4D7	Minima	-1656,40	-73,24	-1,76	0,00	-1910,86	-64154,58
		DSTL3	DSTL1	DSTL5	COMB1	DSTL6	DSTL6
I4D8	Maxima	1048,47	98,63	1,84	0,00	1910,85	11476,76
		DSTL4	DSTL1	DSTL10	COMB1	DSTL5	DSTL1
I4D7	Minima	-1489,89	-63,71	-1,70	0,00	-1044,41	-20161,30
		DSTL10	DSTL1	DSTL4	COMB2	DSTL4	DSTL5
I4D7	Maxima	2144,95	74,22	1,37	0,00	1044,41	11476,76
		DSTL5	DSTL1	DSTL7	COMB2	DSTL4	DSTL1
I4D8	Minima	-1145,11	-52,40	-7,19	0,00	-7748,45	-45937,71
		WL	DSTL1	DSTL4	COMB2	DSTL4	DSTL5
I4D8	Maxima	11031,00	99,80	4,21	0,00	7748,45	14648,01
		DSTL5	DSTL1	DSTL7	COMB2	DSTL4	DSTL5
I4V1	Minima	-8948,62	-6,20	-6,80	0,00	-6135,09	-17190,94
		DSTL6	WB	DSTL10	COMB2	DSTL5	DSTL6
I4V1	Maxima	1030,96	20,22	7,33	0,00	6135,61	17190,61
		WB	DSTL6	DSTL5	COMB2	DSTL6	DSTL6
I4V2	Minima	-294,73	-12,06	-3,368E-01	0,00	-230,50	-10251,83
		DSTL1	DSTL5	DSTL6	COMB2	DSTL5	DSTL5
I4V2	Maxima	0,90	10,87	1,908E-01	0,00	230,06	10751,83
		COMB2	DSTL10	WB	COMB2	DSTL6	DSTL5
I4V3	Minima	-9421,93	-7,89	-7,03	0,00	-6474,84	-18157,78
		DSTL5	WL	DSTL4	COMB2	DSTL4	DSTL5
I4V3	Maxima	979,03	21,86	5,10	0,00	6480,36	18158,00
		WL	DSTL6	DSTL7	COMB2	DSTL4	DSTL5
I4V4	Minima	-9348,31	-6,50	-7,31	0,00	-6016,10	-17180,63
		DSTL6	WB	DSTL5	COMB2	DSTL5	DSTL6
I4V4	Maxima	1031,90	20,21	6,95	0,00	6016,62	17180,41
		WB	DSTL6	DSTL10	COMB2	DSTL5	DSTL6
I4V5	Minima	-294,73	-12,09	-1,901E-01	0,00	-230,12	-10275,38
		DSTL1	DSTL5	WB	COMB2	DSTL6	DSTL5
I4V5	Maxima	0,90	10,87	3,187E-01	0,00	230,54	10275,38
		COMB2	DSTL10	DSTL6	COMB2	DSTL6	DSTL5
I4V6	Minima	-9414,83	-7,89	-6,22	0,00	-6008,93	-18179,31
		DSTL5	WL	DSTL7	COMB2	DSTL4	DSTL5
I4V6	Maxima	974,30	21,38	7,07	0,00	6009,21	18179,53
		WL	DSTL5	DSTL4	COMB2	DSTL4	DSTL5
K1A1	Minima	-803,53	-119,08	-262,86	0,00	-227809,16	-67260,32
		WL	DSTL1	DSTL9	COMB2	DSTL6	DSTL3
K1A1	Maxima	3604,24	62,80	261,04	0,00	227809,16	91507,96
		DSTL2	DSTL4	DSTL6	COMB2	DSTL6	DSTL3
K1A2	Minima	-825,39	-121,83	-268,10	0,00	-227864,96	-69068,04
		WB	DSTL5	DSTL3	COMB2	DSTL3	DSTL5
K1A2	Maxima	8600,98	99,23	240,94	0,00	227864,96	93810,06
		DSTL2	DSTL10	DSTL8	COMB2	DSTL3	DSTL5
K1A3	Minima	-2899,68	-69,34	-18,37	0,00	-21328,07	-58240,40
		DSTL5	DSTL6	DSTL9	COMB2	DSTL6	DSTL5
K1A3	Maxima	722,79	104,55	20,52	0,00	21328,07	18968,19
		WL	DSTL1	DSTL6	COMB2	DSTL6	DSTL5
K1A4	Minima	-2556,88	-69,34	-10,37	0,00	-12320,09	-57314,19
		DSTL3	DSTL4	DSTL7	COMB2	DSTL4	DSTL3
K1A4	Maxima	722,79	104,29	11,86	0,00	12320,09	19005,08
		WB	DSTL1	DSTL4	COMB2	DSTL4	DSTL3
K1A5	Minima	-16449,13	-52,00	-107,77	0,00	-124433,97	-61394,58
		DSTL6	DSTL1	DSTL9	COMB2	DSTL6	DSTL1
K1A5	Maxima	2664,17	106,53	130,62	0,00	124433,97	17058,96
		WL	DSTL1	DSTL6	COMB2	DSTL6	DSTL5
K1A6	Minima	-15794,04	-52,48	-118,78	0,00	-134364,06	-60641,92
		DSTL3	DSTL1	DSTL7	COMB2	DSTL4	DSTL1
K1A6	Maxima	2701,52	106,85	141,05	0,00	134364,06	16880,31
		WB	DSTL1	DSTL4	COMB2	DSTL4	DSTL3
K1A7	Minima	-12197,98	-79,64	-335,96	0,00	-3699825,64	-97267,84
		DSTL5	DSTL1	DSTL6	COMB2	DSTL6	DSTL1

KLA7	Maxima	850,58	59,74	244,35	0,00	969845,84	18014,97
		WL	DSTL1	DSTL3	COMB1	DSTL6	DSTL1
KLA8	Minima	-11965,97	-78,80	-866,08	0,00	-1498214,26	-38093,86
		DSTL3	DSTL1	DSTL4	COMB2	DSTL4	DSTL1
KLA8	Maxima	1026,96	94,45	241,73	0,00	969114,25	15014,97
		WB	DSTL1	DSTL7	COMB1	DSTL6	DSTL1
KLA9	Minima	-1836,40	-112,17	-190,41	0,00	-1497847,97	-40081,49
		DSTL3	DSTL1	DSTL5	COMB1	DSTL5	DSTL5
KLA9	Maxima	257,07	104,60	136,97	0,00	147847,97	11461,07
		WB	DSTL1	DSTL10	COMB1	DSTL5	DSTL1
KLB1	Minima	-9086,19	-90,31	-148,77	0,00	-2850068,55	-78710,73
		DSTL6	DSTL1	DSTL5	COMB2	DSTL5	DSTL1
KLB1	Maxima	1004,76	144,41	258,59	0,00	2850068,55	17041,98
		WL	DSTL1	DSTL10	COMB2	DSTL5	DSTL2
KLB2	Minima	-7890,75	-91,61	-188,53	0,00	-1949937,56	-78555,31
		DSTL5	DSTL1	DSTL7	COMB2	DSTL4	DSTL2
KLB2	Maxima	1096,71	145,10	248,67	0,00	2049937,56	17458,17
		WB	DSTL1	DSTL4	COMB2	DSTL4	DSTL1
KLB3	Minima	-42994,31	-96,98	-172,96	0,00	-1501180,94	-36048,53
		DSTL7	WL	DSTL6	COMB2	DSTL6	DSTL5
KLB3	Maxima	405,11	137,58	272,38	0,00	1501180,94	61911,31
		WB	DSTL5	DSTL3	COMB2	DSTL5	DSTL5
KLB4	Minima	-42962,00	-87,11	-256,18	0,00	-1497760,14	-95117,63
		DSTL2	WB	DSTL4	COMB2	DSTL4	DSTL5
KLB4	Maxima	794,05	191,50	245,25	0,00	1497760,14	78226,11
		WL	DSTL3	DSTL7	COMB2	DSTL4	DSTL3
KLB5	Minima	-20400,62	-52,01	-16,81	0,00	-15401,23	-48734,21
		DSTL3	DSTL6	DSTL5	COMB2	DSTL5	DSTL5
KLB5	Maxima	3642,70	109,96	19,65	0,00	15401,23	21581,93
		WB	DSTL1	DSTL10	COMB2	DSTL5	DSTL5
KLB6	Minima	-29019,36	-51,73	-14,58	0,00	-18405,62	-57191,42
		DSTL5	DSTL4	DSTL3	COMB1	DSTL3	DSTL5
KLB6	Maxima	3467,83	108,83	7,39	0,00	18405,62	20779,58
		WL	DSTL1	DSTL8	COMB1	DSTL3	DSTL5
KLB7	Minima	-9116,22	-70,18	-74,17	0,00	-890076,35	-45203,28
		DSTL6	DSTL1	DSTL10	COMB2	DSTL5	DSTL1
KLB7	Maxima	2898,67	100,89	98,89	0,00	890076,35	14479,80
		WB	DSTL1	DSTL5	COMB2	DSTL5	DSTL1
KLB8	Minima	-9998,98	-70,16	-73,63	0,00	-891204,81	-44821,96
		DSTL6	DSTL1	DSTL9	COMB2	DSTL6	DSTL1
KLB8	Maxima	2649,10	108,21	91,00	0,00	891204,81	14479,83
		WL	DSTL1	DSTL6	COMB2	DSTL6	DSTL1
KLD1	Minima	-19164,92	-80,87	-839,96	0,00	-3018881,97	-66714,81
		DSTL5	WB	DSTL5	COMB2	DSTL5	DSTL3
KLD1	Maxima	2311,73	129,59	638,54	0,00	3018883,97	54076,91
		WL	DSTL3	DSTL10	COMB2	DSTL5	DSTL3
KLD2	Minima	-18527,58	-119,48	-838,08	0,00	-3018508,50	-69071,59
		DSTL3	WL	DSTL7	COMB2	DSTL4	DSTL5
KLD2	Maxima	2922,17	180,44	638,38	0,00	3018508,50	56438,69
		WB	DSTL5	DSTL4	COMB2	DSTL4	DSTL5
KLD3	Minima	-2342,17	-102,92	-140,48	0,00	-122371,05	-47300,72
		WL	DSTL3	DSTL5	COMB2	DSTL5	DSTL5
KLD3	Maxima	19874,69	78,35	139,83	0,00	122371,05	15539,84
		DSTL3	DSTL6	DSTL10	COMB2	DSTL6	DSTL5
KLD4	Minima	-2352,29	-76,96	-150,60	0,00	-130511,67	-48156,80
		WB	DSTL5	DSTL3	COMB2	DSTL3	DSTL6
KLD4	Maxima	19389,13	101,46	147,68	0,00	130511,67	14504,91
		DSTL3	DSTL6	DSTL8	COMB2	DSTL3	DSTL6
KLD5	Minima	-1462,60	-68,83	-147,89	0,00	-123302,30	-48422,50
		WL	DSTL1	DSTL5	COMB2	DSTL5	DSTL5
KLD5	Maxima	11565,37	110,11	193,32	0,00	123300,38	17612,59
		DSTL6	DSTL1	DSTL10	COMB2	DSTL5	DSTL5
KLD6	Minima	-1472,32	-49,57	-170,47	0,00	-142134,20	-48452,40
		WB	DSTL1	DSTL3	COMB2	DSTL3	DSTL3
KLD6	Maxima	11200,70	108,06	188,01	0,00	142138,30	17127,54
		DSTL3	DSTL1	DSTL8	COMB2	DSTL3	DSTL3
KLD7	Minima	-266,66	-72,90	-146,41	0,00	-132604,26	-38655,91
		WB	DSTL1	DSTL6	COMB2	DSTL6	DSTL1
KLD7	Maxima	5476,27	100,47	125,35	0,00	132604,26	12065,56
		DSTL6	DSTL1	DSTL9	COMB2	DSTL6	DSTL1

KLP8	Maximum	-4,45,55	-72,16	-144,57	0,00	-2910714,18	-834139,60
		WL	D6TL1	D6TL4	COMB1	D6TL4	D6TL1
KLP9	Maximum	2551,60	101,11	136,50	0,00	182710,19	18084,88
		D6TL6	WL	D6TL7	COMB2	D6TL4	D6TL1
KLP9	Minimum	10486,06	-110,87	-304,30	0,00	-3016636,10	-40451,10
		D6TL8	D6TL1	D6TL5	COMB2	D6TL5	D6TL5
KLP9	Maximum	1937,91	106,75	257,65	0,00	2014056,50	13490,00
		WL	D6TL1	D6TL10	COMB2	D6TL5	D6TL1
KLV1	Minimum	-16966,10	-10,46	-149,69	0,00	-1117136,04	-140860,60
		D6TL6	D6TL5	D6TL6	COMB2	D6TL5	D6TL5
KLV1	Maximum	1574,07	41,71	142,60	0,00	1117130,04	18671,01
		WL	D6TL10	D6TL10	COMB2	D6TL5	D6TL5
KLV2	Minimum	-4e+04,84	-96,65	-45,67	0,00	-1*4*60,45	-406825,56
		D6TL3	D6TL8	D6TL4	COMB2	D6TL4	D6TL1
KLV2	Maximum	20794,86	84,17	89,84	0,00	789715,51	60606,48
		WP	D6TL3	D6TL4	COMB2	D6TL4	D6TL3
KLV3	Minimum	-111136,41	-82,52	-78,87	0,00	-1,0e+06,96	-199980,45
		D6TL2	D6TL6	D6TL10	COMB1	D6TL6	D6TL6
KLV3	Maximum	-84,36	6,27	26,42	0,00	238857,08	18490,67
		WL	WP	D6TL5	COMB2	D6TL3	D6TL6
KLV4	Minimum	-10890,51	-6,08	12,52	0,00	-214980,51	-20780,49
		D6TL2	WL	D6TL7	COMB2	D6TL4	D6TL5
KLV4	Maximum	-1791,89	14,44	36,80	0,00	214980,49	20780,91
		WL	D6TL5	D6TL7	COMB2	D6TL4	D6TL5
KLW5	Minimum	-1968,65	-99,87	-276,38	0,00	-2538911,20	-910460,00
		D6TL6	D6TL8	D6TL5	COMB2	D6TL5	D6TL6
KLW5	Maximum	187,77	88,98	275,23	0,00	1838836,50	91680,59
		WP	D6TL8	D6TL10	COMB2	D6TL5	D6TL6
KLW6	Minimum	-10068,94	-99,50	-275,84	0,00	-2528967,79	-906918,88
		D6TL2	D6TL8	D6TL6	COMB2	D6TL3	D6TL6
KLW6	Maximum	141,89	100,31	278,96	0,00	1809838,69	91518,19
		WL	D6TL5	D6TL8	COMB1	D6TL3	D6TL6
KLA1	Minimum	-8806,85	-111,04	-348,02	0,00	-2879430,14	-699070,56
		WP	D6TL5	D6TL8	COMB2	D6TL3	D6TL5
KLA1	Maximum	2600,84	28,16	241,01	0,00	2127850,29	33817,90
		D6TL3	D6TL10	D6TL3	COMB2	D6TL3	D6TL5
KLA2	Minimum	-809,54	-115,07	-662,97	0,00	-2027748,96	-670760,94
		WL	D6TL1	D6TL6	COMB2	D6TL6	D6TL3
KLA2	Maximum	8604,29	28,92	840,90	0,00	2027748,96	91498,03
		D6TL2	D6TL4	D6TL8	COMB2	D6TL6	D6TL3
KLA3	Minimum	-2617,31	-69,73	-20,19	0,00	-38981,89	-57368,88
		D6TL3	D6TL4	D6TL4	COMB2	D6TL4	D6TL3
KLA3	Maximum	795,25	108,96	18,31	0,00	20981,29	19079,93
		WP	D6TL1	D6TL7	COMB2	D6TL4	D6TL3
KLA4	Minimum	-1896,16	-98,95	-88,73	0,00	-26871,35	-58244,51
		D6TL3	D6TL6	D6TL6	COMB2	D6TL3	D6TL5
KLA4	Maximum	114,27	106,54	17,57	0,00	26871,35	19970,40
		WL	D6TL5	D6TL8	COMB2	D6TL6	D6TL5
KLA5	Minimum	-15792,70	-83,64	-131,17	0,00	-1250064,08	-500865,31
		D6TL3	D6TL1	D6TL4	COMB2	D6TL4	D6TL1
KLA5	Maximum	2694,84	106,09	107,44	0,00	1250064,08	16895,84
		WP	D6TL1	D6TL7	COMB2	D6TL4	D6TL3
KLA6	Minimum	-16447,60	-82,01	-120,14	0,00	-1139976,84	-51391,01
		D6TL5	D6TL1	D6TL6	COMB2	D6TL6	D6TL1
KLA6	Maximum	2698,00	106,92	107,35	0,00	1139976,84	17256,96
		WL	D6TL1	D6TL8	COMB2	D6TL6	D6TL5
KLA7	Minimum	-11947,81	-72,96	-844,29	0,00	-3696770,50	-38041,59
		D6TL3	D6TL1	D6TL7	COMB2	D6TL4	D6TL1
KLA7	Maximum	1012,76	94,42	155,72	0,00	3696770,80	15014,97
		WP	D6TL1	D6TL4	COMB2	D6TL4	D6TL1
KLA8	Minimum	-12100,85	-79,69	-343,96	0,00	-3303486,01	-37060,78
		D6TL5	D6TL1	D6TL8	COMB2	D6TL5	D6TL1
KLA8	Maximum	956,14	93,75	955,64	0,00	3694484,01	16014,97
		WL	D6TL1	D6TL6	COMB1	D6TL5	D6TL1
KLA9	Minimum	-1871,92	-111,56	-186,51	0,00	-2446606,08	-510328,42
		D6TL7	D6TL1	D6TL8	COMB2	D6TL6	D6TL6
KLA9	Maximum	208,80	105,15	185,98	0,00	2446606,08	18461,05
		WL	D6TL1	D6TL8	COMB2	D6TL6	D6TL1

MZB1	Minima	-7000,53	-71,53	-168,61	0,00	-2849906,04	-99585,41
		DSTL2	DSTL1	DSTL4	COME2	DSTL4	DSTL2
MZB1	Maxima	10000,87	145,13	268,42	0,00	2849905,14	17478,07
		WL	DSTL3	DSTL7	COME1	DSTL4	DSTL3
MZB2	Minima	-7000,14	-71,13	-268,69	0,00	-2851194,74	-79001,55
		DSTL5	DSTL1	DSTL10	COME2	DSTL6	DSTL3
MZB2	Maxima	3004,05	144,30	268,33	0,00	2851195,74	17036,29
		WL	DSTL1	DSTL9	COME2	DSTL5	DSTL2
MZB3	Minima	-40851,31	-190,08	-166,30	0,00	-1610006,36	-48891,80
		DSTL5	DSTL3	DSTL7	COME2	DSTL4	DSTL2
MZB3	Maxima	807,00	96,79	174,93	0,00	1610004,36	37944,99
		WL	WB	DSTL4	COME1	DSTL4	DSTL1
MZB4	Minima	-42940,10	-96,91	-277,71	0,00	-1609991,40	-98965,38
		DSTL2	WL	DSTL8	COME2	DSTL6	DSTL5
MZB4	Maxima	403,95	197,64	174,31	0,00	1609991,40	81497,50
		WB	DSTL3	DSTL4	COME1	DSTL6	DSTL3
MZB5	Minima	-10386,58	-108,81	-9,47	0,00	-10000,00	-57117,27
		DSTL5	DSTL1	DSTL8	COME1	DSTL3	DSTL7
MZB5	Maxima	9486,16	51,43	12,71	0,00	10000,00	20074,09
		WL	DSTL4	DSTL7	COME1	DSTL3	DSTL3
MZB6	Minima	-12397,46	-80,03	-8,72	0,00	-14601,90	-88728,26
		DSTL3	DSTL6	DSTL10	COME2	DSTL5	DSTL5
MZB6	Maxima	8664,30	109,96	15,03	0,00	14601,90	21502,25
		WB	DSTL1	DSTL9	COME2	DSTL5	DSTL5
MZB7	Minima	-9020,80	-70,20	-91,30	0,00	-91505,51	-45479,34
		DSTL5	DSTL1	DSTL6	COME2	DSTL6	DSTL1
MZB7	Maxima	6647,31	108,17	73,89	0,00	91505,51	14479,83
		WL	DSTL1	DSTL9	COME2	DSTL6	DSTL1
MZB8	Minima	-9110,97	-70,48	-98,62	0,00	-88817,14	-49004,58
		DSTL6	DSTL1	DSTL5	COME2	DSTL5	DSTL1
MZB8	Maxima	8897,09	102,89	75,95	0,00	88817,14	14479,83
		WB	DSTL1	DSTL10	COME2	DSTL5	DSTL1
MZB9	Minima	-8877,70	-110,81	-48,62	0,00	-85262,28	-43019,57
		DSTL5	DSTL1	DSTL8	COME1	DSTL3	DSTL6
MZB9	Maxima	3529,56	105,62	52,09	0,00	85262,28	21527,23
		WL	DSTL1	DSTL3	COME1	DSTL3	DSTL1
MZD1	Minima	-18945,39	-19,42	-638,74	0,00	-3911181,55	-62084,87
		DSTL3	WL	DSTL4	COME2	DSTL4	DSTL3
MZD1	Maxima	8827,70	138,46	617,24	0,00	3911188,55	56446,36
		WB	DSTL5	DSTL7	COME2	DSTL4	DSTL5
MZD2	Minima	-19264,57	-20,88	-618,08	0,00	-3921181,75	-64697,61
		DSTL5	WB	DSTL10	COME2	DSTL5	DSTL3
MZD2	Maxima	8213,77	128,59	640,45	0,00	3921181,75	54059,31
		WL	DSTL3	DSTL5	COME2	DSTL5	DSTL3
MZD3	Minima	-8368,44	-78,81	-139,87	0,00	-123836,52	-45042,82
		WB	DSTL6	DSTL8	COME2	DSTL3	DSTL6
MZD3	Maxima	19948,06	101,71	141,03	0,00	123836,52	14062,51
		DSTL3	DSTL6	DSTL5	COME2	DSTL3	DSTL6
MZD4	Minima	-8344,75	-78,39	-138,65	0,00	-122822,46	-47301,31
		WL	DSTL6	DSTL10	COME2	DSTL6	DSTL5
MZD4	Maxima	19870,81	103,96	140,62	0,00	122822,46	19541,63
		DSTL5	DSTL5	DSTL6	COME2	DSTL5	DSTL6
MZD5	Minima	-8482,34	-45,64	-130,02	0,00	-117826,05	-48873,45
		WB	DSTL1	DSTL8	COME2	DSTL3	DSTL3
MZD5	Maxima	11204,95	109,29	198,32	0,00	117826,05	17088,06
		DSTL3	DSTL1	DSTL3	COME2	DSTL3	DSTL3
MZD6	Minima	-8484,87	-46,83	-132,58	0,00	-122783,98	-49462,87
		WL	DSTL1	DSTL10	COME2	DSTL5	DSTL6
MZD6	Maxima	11564,45	110,10	147,27	0,00	122783,98	17618,77
		DSTL5	DSTL1	DSTL6	COME2	DSTL6	DSTL5
MZD7	Minima	-211,86	-72,31	-126,95	0,00	-133033,21	-39181,00
		WL	DSTL1	DSTL7	COME2	DSTL4	DSTL3
MZD7	Maxima	2547,96	101,06	146,88	0,00	133033,21	13085,58
		DSTL4	DSTL1	DSTL4	COME2	DSTL4	DSTL1
MZD8	Minima	-263,25	-72,90	-139,06	0,00	-132297,45	-39660,24
		WB	DSTL1	DSTL9	COME2	DSTL6	DSTL1
MZD8	Maxima	2479,20	100,48	146,07	0,00	132297,45	13085,58
		DSTL6	DSTL1	DSTL6	COME2	DSTL6	DSTL1
MZD9	Minima	-10267,00	-110,13	-107,89	0,00	-3838867,75	-45101,83
		DSTL3	DSTL1	DSTL8	COME2	DSTL3	DSTL6

KUD9	Maksimum	2042,47	106,65	304,84	0,00	-933507,05	18990,70
		WS	DSTL1	DSTL7	COMB2	DSTL3	DSTL1
KLV1	Minimum	-19999,61	-11,62	-141,53	0,00	-1148771,61	-16991,69
		DSTL2	DSTL5	DSTL8	COMB2	DSTL3	DSTL5
KUV1	Maksimum	1493,54	13,74	145,79	0,00	1148771,61	16990,61
		WJ	DSTL9	DSTL3	COMB1	DSTL3	DSTL4
KUV2	Minimum	-19894,29	-85,44	-145,84	0,00	-1177019,41	16979,16
		DSTL5	DSTL5	DSTL10	COMB1	DSTL5	DSTL5
KUV2	Maksimum	1978,03	11,71	149,28	0,00	1177019,61	19986,00
		WL	DSTL10	DSTL3	COMB1	DSTL5	DSTL5
KUV3	Minimum	-10999,76	-8,00	15,66	0,00	-818319,00	10761,76
		DSTL1	WL	DSTL4	COMB2	DSTL4	DSTL5
KUV3	Maksimum	-180,67	24,42	22,45	0,00	11915,45	10774,16
		WL	DSTL5	DSTL7	COMB1	DSTL4	DSTL5
KUV4	Minimum	-11178,06	-13,61	-26,47	0,00	-836807,07	-10999,29
		DSTL2	DSTL6	DSTL5	COMB2	DSTL5	DSTL6
KUV4	Maksimum	-70,00	8,67	34,84	0,00	6460,35	10968,00
		WL	WL	DSTL10	COMB1	DSTL6	DSTL6
KUV5	Minimum	-10469,27	-89,03	-276,23	0,00	-833139,95	-91580,53
		DSTL2	DSTL3	DSTL3	COMB2	DSTL3	DSTL6
KUV5	Maksimum	196,87	100,39	276,00	0,00	21138,16	91580,24
		WL	DSTL6	DSTL8	COMB1	DSTL3	DSTL6
KUV6	Minimum	-1873,41	-98,74	-275,75	0,00	-833731,98	-91578,26
		DSTL6	DSTL9	DSTL10	COMB2	DSTL5	DSTL6
KUV6	Maksimum	190,27	99,69	276,37	0,00	159798,67	91578,66
		WL	DSTL6	DSTL5	COMB1	DSTL5	DSTL6
KLA10	Minimum	-1882,07	-111,36	-196,17	0,00	-849831,60	-82012,64
		DSTL2	DSTL1	DSTL8	COMB2	DSTL6	DSTL5
KLA10	Maksimum	209,01	105,10	198,71	0,00	34891,60	23461,05
		WL	DSTL1	DSTL9	COMB1	DSTL6	DSTL1
KLB10	Minimum	-6964,72	-111,43	-52,30	0,01	-85525,62	-50102,59
		DSTL6	DSTL1	DSTL5	COMB2	DSTL5	DSTL5
KLB10	Maksimum	2720,48	105,71	48,29	0,00	85519,61	22627,23
		WR	DSTL1	DSTL10	COMB1	DSTL5	DSTL1
KLE14	Minimum	-6695,32	-110,79	-92,66	0,00	-68933,95	-49004,52
		DSTL5	DSTL1	DSTL3	COMB2	DSTL3	DSTL6
KLE14	Maksimum	2936,69	105,34	48,91	0,00	85933,55	22627,23
		WL	DSTL1	DSTL8	COMB2	DSTL3	DSTL1
KLD10	Minimum	-10078,96	-110,17	-305,44	0,00	-852046,69	-45138,49
		DSTL3	DSTL1	DSTL3	COMB2	DSTL9	DSTL6
KLD10	Maksimum	1045,14	106,56	298,90	0,00	85846,04	19680,78
		WR	DSTL1	DSTL5	COMB2	DSTL3	DSTL1
KCA10	Minimum	-1877,13	-112,11	-196,08	0,00	-247651,41	-53061,45
		DSTL3	DSTL1	DSTL10	COMB2	DSTL5	DSTL6
KLA10	Maksimum	260,41	104,61	190,64	0,00	247651,61	23461,05
		WR	DSTL1	DSTL9	COMB2	DSTL5	DSTL1
KZB10	Minimum	-6507,13	-111,61	-48,56	0,00	-65961,08	-50098,62
		DSTL5	DSTL1	DSTL10	COMB2	DSTL5	DSTL5
KZB10	Maksimum	2716,84	105,01	82,65	0,00	85961,08	22627,23
		WR	DSTL1	DSTL5	COMB2	DSTL9	DSTL1
KLD10	Minimum	-10488,04	-110,96	-198,28	0,00	-991991,79	-86140,12
		DSTL5	DSTL1	DSTL10	COMB2	DSTL5	DSTL5
KLD10	Maksimum	1018,51	106,76	194,66	0,00	693991,19	19680,78
		WL	DSTL1	DSTL5	COMB2	DSTL6	DSTL1

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M A T E R I A L P R O P E R T Y D A T A

MAT LABEL	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	WEIGHT PER UNIT VOL	MASS PER UNIT VOL
STEEL	2039360000	0,300	1,170E-05	7833,414	798,941
BAJA	2.100E+10	0,300	1,170E-05	7833,000	798,100
MAT1	2.039E+10	0,300	1,170E-05	7833,000	798,100

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M A T E R I A L D E S I G N D A T A

MAT LABEL	DESIGN CODE	STEEL FY	CONCRETE FC	REBAR FY	CONCRETE FCS	REBAR FYS
STEEL	S	2481050	7,0			
BAJA	S	2447800	7,0			
MAT1	S	2531500	7,0			

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F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	SHAPE TYPE	DEPTH m	FLANGE WIDTH TOP	FLANGE THICK TOP	WEB THICK	FLANGE WIDTH BOTTOM	FLANGE THICK BOTTOM
2L65X65X	BAJA	2L65X65X5-10	6,500E-02	0,130	6,000E-03	5,000E-03	0,000	0,000
2L65X65X	BAJA	2L65X65X6-10	6,500E-02	0,130	6,000E-03	5,000E-03	0,000	0,000
2L50X50D1	BAJA		5,000E-02	0,110	5,000E-03	5,000E-03	0,000	0,000
2L60X60D1	BAJA		6,000E-02	0,130	6,000E-03	6,000E-03	0,000	0,000
2L45X45X	BAJA	2L45X45X5-10	4,500E-02	0,100	6,000E-03	6,000E-03	0,000	0,000
2L45X45X	STEEL	2L45X45X5-10	4,500E-02	7,000E-02	6,000E-03	5,000E-03	0,000	0,000
2L45X45X	STEEL	2L45X45X4-10	4,500E-02	0,100	4,000E-03	4,000E-03	0,000	0,000
2L65X65X	STEEL	2L65X65X5-10	6,500E-02	8,000E-02	8,000E-03	5,000E-03	0,000	0,000

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F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	AREA	TORSIONAL INERTIA	MOMENTS OF INERTIA I33	I22	SHEAR AREAS A2	A3
2L65X65X	1,080E-03	0,000	0,000	0,000	5,500E-04	5,500E-04
2L65X65X	1,360E-03	0,000	0,000	1,118E-06	6,500E-04	6,500E-04
2L50X50D1	9,500E-04	0,000	0,000	0,000	5,000E-04	5,000E-04
2L60X60D1	1,368E-03	0,000	0,000	1,141E-06	7,200E-04	7,200E-04
2L45X45X	5,400E-04	0,000	0,000	0,000	4,500E-04	4,500E-04
2L45X45X	7,900E-04	0,000	0,000	0,000	4,500E-04	3,000E-04
2L45X45X	6,960E-04	0,000	0,000	0,000	3,600E-04	3,600E-04
2L65X65X	8,500E-04	0,000	0,000	0,000	5,600E-04	3,500E-04

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F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	SECTION MODULII S33	S22	PLASTIC MODULII Z33	Z22	RADII OF GYRATION R33	R22
2L65X65X	1,041E-05	1,248E-05	7,700E-06	0,000	1,689E-02	2,570E-02
2L65X65X	1,460E-05	1,683E-05	1,050E-05	0,000	2,022E-02	2,870E-02
2L50X50D1	8,810E-06	1,055E-05	1,157E-05	1,838E-05	1,599E-02	2,472E-02
2L60X60D1	1,080E-05	1,786E-05	1,945E-05	3,030E-05	1,948E-02	2,884E-02
2L45X45X	7,000E-06	9,760E-06	8,040E-06	0,000	1,878E-02	2,870E-02

31	4,639E-06	4,749E-06	4,750E-06	0,000	1,619E-05	1,540E-05
32	5,783E-06	5,866E-06	4,130E-06	0,000	1,891E-05	2,250E-05
33	8,710E-06	8,003E-06	7,170E-06	0,000	1,751E-01	1,693E-01

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L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
DSTL1	ADD				DSTL1
		DL	1,4000	STATIC(DEAD)	
DSTL2	ADD				DSTL2
		DL	1,2000	STATIC(DEAD)	
		LL	1,6000	STATIC(LIVE)	
DSTL3	ADD				DSTL3
		DL	1,2000	STATIC(DEAD)	
		LL	0,8000	STATIC(LIVE)	
		WL	1,3000	STATIC(WIND)	
DSTL4	ADD				DSTL4
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WL	-1,3000	STATIC(WIND)	
DSTL5	ADD				DSTL5
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WR	1,3000	STATIC(WIND)	
DSTL6	ADD				DSTL6
		DL	1,2000	STATIC(DEAD)	
		LL	0,5000	STATIC(LIVE)	
		WR	-1,3000	STATIC(WIND)	
DSTL7	ADD				DSTL7
		DL	0,9000	STATIC(DEAD)	
		WL	1,3000	STATIC(WIND)	
DSTL8	ADD				DSTL8
		DL	0,9000	STATIC(DEAD)	
		WL	-1,3000	STATIC(WIND)	
DSTL9	ADD				DSTL9
		DL	0,9000	STATIC(DEAD)	
		WR	1,3000	STATIC(WIND)	
DSTL10	ADD				DSTL10
		DL	0,9000	STATIC(DEAD)	
		WR	-1,3000	STATIC(WIND)	
COMB1	ADD				COMB1
		DL	1,0000	STATIC(DEAD)	
COMB2	ADD				COMB2
		LL	1,0000	STATIC(LIVE)	

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C O D E P R E F E R E N C E S

Code: AISC-LRFD93

Phi_bending	: 0,9
Phi_tension	: 0,9
Phi_compression	: 0,85
Phi_shear	: 0,9

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Kampus D3 Ekonomi UII Block B

S T E E L S T R E S S C H E C K E L E M E N T I N F O R M A T I O N (AISC-LRFD93)

FRAME ID	SECTION ID	FRAMING TYPE	KLED FACTOR	L major	L minor	M major	M minor
GA1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA8	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GA8	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GB1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GB2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GB3	2L50X50X5D1	MOMENT	1.000	1.000	2.572	1.000	1.000
GB4	2L50X50X5D1	MOMENT	1.000	1.000	2.572	1.000	1.000
GB5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GB6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GB7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GB8	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GC3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GC4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GC5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GC6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GV1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GV2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GV3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
GV4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HA1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HA7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HA3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HA4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HA5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HA6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HB1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HB2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HB3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HB4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HD1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HD2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HD3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HD4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HD5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HD6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
HV7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1A8	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1B8	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D7	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1D8	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.000
I1V1	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.324
I1V2	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.324
I1V3	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.324
I1V4	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.324
I1V5	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.324
I1V6	2L50X50X5D1	MOMENT	1.000	1.000	1.000	1.000	1.324
I2A1	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A2	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A3	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A4	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A5	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A6	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A7	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2A8	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2B1	2L50X50X5D1	MOMENT	1.000	1.000	2.000	1.000	1.000
I2B2	2L50X50X5D1	MOMENT	1.000	1.000	4.000	1.000	1.000
I2B3	2L50X50X5D1	MOMENT	1.000	1.000	4.000	1.000	1.000

K1B4	2L50X6D1	MOMENT	1.000	1.000	4.000	1.000	1.000
K1B5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1B6	2L50X6D1	MOMENT	1.000	1.000	4.000	1.000	1.000
K1B7	2L50X6D1	MOMENT	1.000	1.000	4.000	1.000	1.000
K1B8	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1B9	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C3	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C4	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C6	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C7	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C8	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1C9	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D3	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D4	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D6	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D7	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D8	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1D9	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1V1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1V2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1V3	2L50X6D1	MOMENT	1.000	1.000	1.000	1.256	1.000
K1V4	2L50X6D1	MOMENT	1.000	1.000	1.000	1.256	1.000
K1V5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1V6	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A3	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A4	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A6	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A7	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2A8	2L50X6D1	MOMENT	1.000	1.000	2.256	1.000	1.000
K2A9	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2B1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2B2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2B3	2L50X6D1	MOMENT	1.000	1.000	2.562	1.000	1.000
K2B4	2L50X6D1	MOMENT	1.000	1.000	3.561	1.000	1.000
K2B5	2L50X6D1	MOMENT	1.000	1.000	3.640	1.000	1.000
K2B6	2L50X6D1	MOMENT	1.000	1.000	1.640	1.000	1.000
K2B7	2L50X6D1	MOMENT	1.000	1.000	2.560	1.000	1.000
K2B8	2L50X6D1	MOMENT	1.000	1.000	2.256	1.000	1.000
K2B9	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D3	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D4	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D6	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D7	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D8	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2D9	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2V1	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2V2	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2V3	2L50X6D1	MOMENT	1.000	1.000	1.000	1.256	1.000
K2V4	2L50X6D1	MOMENT	1.000	1.000	1.000	1.256	1.000
K2V5	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K2V6	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1A10	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1B10	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000
K1B14	2L50X6D1	MOMENT	1.000	1.000	1.000	1.000	1.000

K1D1D7	2L50X5D1	MOMENT	1,000	1,000	1,000	1,000	1,000
K1A1D	2L50X5D1	MOMENT	1,000	1,000	1,000	1,000	1,000
K2E1D	2L50X5D1	MOMENT	1,000	1,000	1,000	1,000	1,000
K2F1D	2L50X5D1	MOMENT	1,000	1,000	1,000	1,000	1,000

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Ujang & Ocha, Engineer
Mahasiswa UII Semester VIII Block B

S T E E L S T R E S S C H E C K O U T P U T (AISC-LRFD93)

FRAME ID	SECTION ID	COMBO	MOMENT INTERACTION CHECK RATIO				SHEAR22 COMBO	SHEAR22 RATIO	SHEAR33 COMBO	SHEAR33 RATIO
				P	AXL	B33	B22				
GA1	2L50X5D1	DSTL8	(T)	0,072	= 0,019	+ 0,053	+ 0,000	DSTL7	0,002	DSTL5	0,000
GA2	2L50X5D1	DSTL3	(T)	0,071	= 0,019	+ 0,052	+ 0,000	DSTL3	0,000	DSTL4	0,000
GA3	2L50X5D1	DSTL3	(T)	0,172	= 0,003	+ 0,154	+ 0,000	DSTL3	0,009	DSTL5	0,000
GA4	2L50X5D1	DSTL3	(T)	0,177	= 0,019	+ 0,158	+ 0,000	DSTL3	0,009	DSTL4	0,000
GA5	2L50X5D1	DSTL3	(T)	0,140	= 0,008	+ 0,132	+ 0,000	DSTL3	0,006	DSTL5	0,000
GA6	2L50X5D1	DSTL3	(T)	0,141	= 0,009	+ 0,132	+ 0,000	DSTL3	0,006	DSTL6	0,000
GA7	2L50X5D1	DSTL3	(C)	0,086	= 0,002	+ 0,081	+ 0,004	DSTL3	0,003	DSTL3	0,000
GA8	2L50X5D1	DSTL7	(T)	0,087	= 0,000	+ 0,084	+ 0,000	DSTL3	0,003	DSTL3	0,000
GB1	2L50X5D1	DSTL3	(C)	0,086	= 0,002	+ 0,081	+ 0,004	DSTL7	0,002	DSTL5	0,000
GB2	2L50X5D1	DSTL3	(C)	0,031	= 0,028	+ 0,002	+ 0,000	DSTL3	0,001	DSTL4	0,000
GB3	2L50X5D1	DSTL3	(C)	0,031	= 0,028	+ 0,002	+ 0,000	DSTL3	0,006	DSTL4	0,000
GB4	2L50X5D1	DSTL3	(C)	0,165	= 0,038	+ 0,127	+ 0,000	DSTL3	0,006	DSTL4	0,000
GB5	2L50X5D1	DSTL3	(C)	0,156	= 0,028	+ 0,127	+ 0,001	DSTL3	0,003	DSTL4	0,000
GB6	2L50X5D1	DSTL3	(C)	0,103	= 0,014	+ 0,087	+ 0,001	DSTL3	0,003	DSTL4	0,000
GC1	2L50X5D1	DSTL3	(C)	0,103	= 0,014	+ 0,087	+ 0,002	DSTL3	0,003	DSTL5	0,000
GC2	2L50X5D1	DSTL3	(C)	0,093	= 0,019	+ 0,074	+ 0,000	DSTL3	0,003	DSTL4	0,000
GC3	2L50X5D1	DSTL3	(C)	0,093	= 0,019	+ 0,074	+ 0,000	DSTL3	0,004	DSTL5	0,000
GC4	2L50X5D1	DSTL3	(T)	0,104	= 0,017	+ 0,087	+ 0,000	DSTL3	0,004	DSTL3	0,000
GC5	2L50X5D1	DSTL3	(T)	0,104	= 0,017	+ 0,087	+ 0,000	DSTL3	0,004	DSTL4	0,000
GC6	2L50X5D1	DSTL3	(T)	0,098	= 0,006	+ 0,090	+ 0,002	DSTL3	0,004	DSTL4	0,000
GV1	2L50X5D1	DSTL3	(T)	0,099	= 0,006	+ 0,090	+ 0,003	DSTL3	0,002	DSTL5	0,000
GV2	2L50X5D1	DSTL2	(C)	0,143	= 0,097	+ 0,046	+ 0,001	DSTL3	0,002	DSTL4	0,000
GV3	2L50X5D1	DSTL3	(C)	0,144	= 0,097	+ 0,046	+ 0,001	DSTL3	0,002	DSTL5	0,000
GV4	2L50X5D1	DSTL3	(C)	0,109	= 0,041	+ 0,068	+ 0,000	DSTL3	0,002	DSTL5	0,000
HA1	2L50X5D1	DSTL3	(C)	0,109	= 0,041	+ 0,068	+ 0,000	DSTL3	0,002	DSTL5	0,000
HA2	2L50X5D1	DSTL8	(T)	0,071	= 0,019	+ 0,052	+ 0,000	DSTL5	0,002	DSTL6	0,000
HA3	2L50X5D1	DSTL8	(T)	0,071	= 0,019	+ 0,052	+ 0,000	DSTL5	0,002	DSTL6	0,000
HA4	2L50X5D1	DSTL8	(T)	0,113	= 0,023	+ 0,090	+ 0,000	DSTL5	0,003	DSTL6	0,000
HA5	2L50X5D1	DSTL8	(T)	0,113	= 0,023	+ 0,090	+ 0,000	DSTL6	0,003	DSTL5	0,000
HA6	2L50X5D1	DSTL6	(C)	0,086	= 0,002	+ 0,080	+ 0,004	DSTL5	0,003	DSTL5	0,000
HB1	2L50X5D1	DSTL8	(T)	0,087	= 0,000	+ 0,083	+ 0,004	DSTL5	0,002	DSTL6	0,000
HB2	2L50X5D1	DSTL5	(C)	0,079	= 0,028	+ 0,051	+ 0,000	DSTL6	0,002	DSTL6	0,000
HB3	2L50X5D1	DSTL5	(C)	0,080	= 0,028	+ 0,051	+ 0,000	DSTL5	0,002	DSTL6	0,000
		DSTL2	(C)	0,111	= 0,043	+ 0,068	+ 0,001				

		DSTL4	(C)	0,045	= 0,038 + 0,021 + 0,025						
		DSTL3	(T)	0,058	= 0,004 + 0,020 + 0,034						
I1V1	2L50X5D1					DSTL5	0,001	DSTL10	0,000		
		DSTL5	(C)	0,038	= 0,000 + 0,002 + 0,006						
I1V2	2L50X5D1					DSTL5	0,001	DSTL2	0,000		
		DSTL6	(C)	0,041	= 0,000 + 0,042 + 0,000						
		COMB2	(T)	0,004	= 0,000 + 0,004 + 0,000						
I1V3	2L50X5D1					DSTL6	0,000	DSTL10	0,000		
		DSTL6	(C)	0,068	= 0,020 + 0,042 + 0,006						
I1V4	2L50X5D1					DSTL3	0,001	DSTL4	0,000		
		DSTL3	(C)	0,038	= 0,001 + 0,033 + 0,004						
I1V5	2L50X5D1					DSTL3	0,001	DSTL4	0,000		
		DSTL3	(C)	0,049	= 0,001 + 0,043 + 0,005						
		COMB2	(T)	0,004	= 0,000 + 0,004 + 0,000						
I1V6	2L50X5D1					DSTL3	0,001	DSTL4	0,000		
		DSTL3	(C)	0,029	= 0,001 + 0,023 + 0,005						
I2A1	2L50X5D1					DSTL6	0,001	DSTL6	0,000		
		DSTL6	(C)	0,096	= 0,048 + 0,048 + 0,000						
I2A2	2L50X5D1					DSTL6	0,001	DSTL5	0,000		
		DSTL6	(C)	0,072	= 0,044 + 0,027 + 0,002						
I2A3	2L50X5D1					DSTL5	0,001	DSTL4	0,000		
		DSTL5	(C)	0,079	= 0,044 + 0,033 + 0,002						
I2A4	2L50X5D1					DSTL5	0,002	DSTL4	0,000		
		DSTL2	(C)	0,099	= 0,049 + 0,050 + 0,000						
I2A5	2L50X5D1					DSTL6	0,002	DSTL6	0,000		
		DSTL2	(C)	0,099	= 0,049 + 0,049 + 0,000						
I2A6	2L50X5D1					DSTL4	0,001	DSTL5	0,000		
		DSTL3	(C)	0,072	= 0,044 + 0,027 + 0,002						
I2A7	2L50X5D1					DSTL6	0,001	DSTL5	0,000		
		DSTL5	(C)	0,074	= 0,044 + 0,028 + 0,002						
I2A8	2L50X5D1					DSTL5	0,002	DSTL4	0,000		
		DSTL2	(C)	0,099	= 0,049 + 0,050 + 0,000						
I2B1	2L50X5D1					DSTL3	0,002	DSTL5	0,000		
		DSTL3	(C)	0,078	= 0,017 + 0,056 + 0,005						
		DSTL5	(T)	0,043	= 0,001 + 0,036 + 0,006						
I2B2	2L50X5D1					DSTL6	0,002	DSTL5	0,000		
		DSTL6	(T)	0,045	= 0,008 + 0,035 + 0,002						
I2B3	2L50X5D1					DSTL5	0,002	DSTL4	0,000		
		DSTL4	(T)	0,045	= 0,008 + 0,035 + 0,002						
I2B4	2L50X5D1					DSTL5	0,002	DSTL4	0,000		
		DSTL5	(C)	0,082	= 0,019 + 0,057 + 0,006						
		DSTL3	(T)	0,043	= 0,001 + 0,037 + 0,005						
I2B5	2L50X5D1					DSTL3	0,002	DSTL5	0,000		
		DSTL3	(C)	0,079	= 0,017 + 0,056 + 0,006						
		DSTL5	(T)	0,044	= 0,001 + 0,036 + 0,007						
I2B6	2L50X5D1					DSTL6	0,002	DSTL5	0,000		
		DSTL6	(T)	0,045	= 0,008 + 0,035 + 0,002						
I2B7	2L50X5D1					DSTL5	0,002	DSTL4	0,000		
		DSTL4	(T)	0,045	= 0,008 + 0,035 + 0,002						
I2B8	2L50X5D1					DSTL5	0,002	DSTL4	0,000		
		DSTL5	(C)	0,082	= 0,019 + 0,057 + 0,006						
		DSTL3	(T)	0,044	= 0,001 + 0,037 + 0,006						
I2D1	2L50X5D1					DSTL1	0,001	DSTL5	0,000		
		DSTL6	(T)	0,060	= 0,027 + 0,030 + 0,003						
I2D2	2L50X5D1					DSTL1	0,001	DSTL5	0,000		
		DSTL5	(C)	0,030	= 0,011 + 0,019 + 0,001						
		DSTL6	(T)	0,031	= 0,005 + 0,025 + 0,001						
I2D3	2L50X5D1					DSTL1	0,001	DSTL4	0,000		
		DSTL5	(C)	0,039	= 0,010 + 0,018 + 0,001						
		DSTL5	(T)	0,082	= 0,006 + 0,076 + 0,001						
I2D4	2L50X5D1					DSTL1	0,001	DSTL4	0,000		
		DSTL5	(T)	0,063	= 0,027 + 0,033 + 0,003						
I2D5	2L50X5D1					DSTL1	0,001	DSTL5	0,000		
		DSTL6	(T)	0,062	= 0,027 + 0,032 + 0,003						
I2D6	2L50X5D1					DSTL1	0,001	DSTL5	0,000		
		DSTL5	(C)	0,030	= 0,011 + 0,019 + 0,001						
		DSTL6	(T)	0,031	= 0,005 + 0,025 + 0,001						
I2D7	2L50X5D1					DSTL1	0,001	DSTL4	0,000		
		DSTL4	(C)	0,039	= 0,010 + 0,028 + 0,001						
		DSTL5	(T)	0,082	= 0,006 + 0,025 + 0,001						
I2D8	2L50X5D1					DSTL1	0,001	DSTL4	0,000		
		DSTL5	(T)	0,063	= 0,027 + 0,033 + 0,003						
I2V1	2L50X5D1					DSTL6	0,000	DSTL5	0,000		
		DSTL6	(C)	0,062	= 0,047 + 0,013 + 0,003						
I2V2	2L50X5D1					DSTL5	0,000	DSTL6	0,000		
		DSTL5	(C)	0,009	= 0,001 + 0,008 + 0,000						
		COMB2	(T)	0,000	= 0,000 + 0,000 + 0,000						
I2V3	2L50X5D1					DSTL5	0,000	DSTL4	0,000		
		DSTL5	(C)	0,064	= 0,048 + 0,013 + 0,002						
I2V4	2L50X5D1					DSTL6	0,000	DSTL5	0,000		
		DSTL6	(C)	0,062	= 0,047 + 0,013 + 0,003						
I2V5	2L50X5D1					DSTL5	0,000	DSTL6	0,000		
		DSTL5	(C)	0,009	= 0,001 + 0,008 + 0,000						
		COMB2	(T)	0,000	= 0,000 + 0,000 + 0,000						
I2V6	2L50X5D1					DSTL5	0,000	DSTL4	0,000		
		DSTL5	(C)	0,064	= 0,048 + 0,013 + 0,002						
I3A1	2L50X5D1					DSTL1	0,002	DSTL6	0,004		

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K1A2	2L50X6D1	DSTL6	(T)	0,162	= 0,013 + 0,049 + 0,100	DSTL5	0,002	DSTL3	0,004		
K1A3	2L50X6D1	DSTL4	(T)	0,162	= 0,013 + 0,049 + 0,100	DSTL1	0,002	DSTL5	0,000		
K1A4	2L50X6D1	DSTL5 COMB2	(C) (T)	0,071 0,003	= 0,019 + 0,043 + 0,009 = 0,000 + 0,002 + 0,000	DSTL1	0,002	DSTL4	0,000		
K1A5	2L50X6D1	DSTL3 COMB2	(C) (T)	0,062 0,003	= 0,017 + 0,042 + 0,003 = 0,000 + 0,002 + 0,000	DSTL1	0,002	DSTL6	0,002		
K1A6	2L50X6D1	DSTL6	(C)	0,178	= 0,083 + 0,037 + 0,043	DSTL1	0,002	DSTL4	0,002		
K1A7	2L50X6D1	DSTL3	(C)	0,474	= 0,089 + 0,037 + 0,048	DSTL1	0,001	DSTL5	0,003		
K1A8	2L50X6D1	DSTL5	(C)	0,471	= 0,315 + 0,018 + 0,138	DSTL1	0,001	DSTL4	0,005		
K1A9	2L50X6D1	DSTL3	(C)	0,467	= 0,311 + 0,019 + 0,136	DSTL1	0,001	DSTL5	0,003		
K1B1	2L50X6D1	DSTL6	(C)	0,182	= 0,004 + 0,001 + 0,176	DSTL1	0,002	DSTL5	0,004		
K1B2	2L50X6D1	DSTL5	(C)	0,213	= 0,042 + 0,047 + 0,125	DSTL1	0,002	DSTL4	0,004		
K1B3	2L50X6D1	DSTL3	(C)	0,260	= 0,048 + 0,047 + 0,165	DSTL5	0,003	DSTL6	0,004		
K1B4	2L50X6D1	DSTL2	(C)	0,936	= 0,484 + 0,052 + 0,000	DSTL3	0,002	DSTL4	0,004		
K1B5	2L50X6D1	DSTL1	(C)	0,556	= 0,488 + 0,060 + 0,008	DSTL1	0,002	DSTL5	0,000		
K1B6	2L50X6D1	DSTL3	(C)	0,078	= 0,051 + 0,025 + 0,000	DSTL1	0,002	DSTL3	0,000		
K1B7	2L50X6D1	DSTL5	(C)	0,032	= 0,023 + 0,004 + 0,005	DSTL1	0,002	DSTL5	0,001		
K1B8	2L50X6D1	DSTL6 DSTL9	(C) (T)	0,149 0,059	= 0,007 + 0,060 + 0,081 = 0,000 + 0,020 + 0,039	DSTL1	0,002	DSTL6	0,001		
K1D1	2L50X6D1	DSTL5	(C)	0,089	= 0,035 + 0,027 + 0,027	DSTL3	0,002	DSTL5	0,010		
K1D2	2L50X6D1	DSTL5	(C)	0,268	= 0,066 + 0,024 + 0,172	DSTL5	0,002	DSTL4	0,010		
K1D3	2L50X6D1	DSTL3	(C)	0,265	= 0,067 + 0,026 + 0,171	DSTL5	0,002	DSTL5	0,002		
K1D4	2L50X6D1	DSTL5	(T)	0,137	= 0,048 + 0,035 + 0,054	DSTL6	0,002	DSTL3	0,002		
K1D5	2L50X6D1	DSTL3	(T)	0,138	= 0,047 + 0,033 + 0,057	DSTL1	0,002	DSTL5	0,002		
K1D6	2L50X6D1	DSTL5	(T)	0,119	= 0,028 + 0,036 + 0,054	DSTL1	0,002	DSTL3	0,003		
K1D7	2L50X6D1	DSTL3	(T)	0,125	= 0,027 + 0,036 + 0,062	DSTL1	0,002	DSTL6	0,002		
K1D8	2L50X6D1	DSTL6	(T)	0,092	= 0,006 + 0,027 + 0,058	DSTL1	0,002	DSTL4	0,002		
K1D9	2L50X6D1	DSTL4	(T)	0,092	= 0,006 + 0,028 + 0,058	DSTL1	0,002	DSTL5	0,003		
K1V1	2L50X5D1	DSTL5	(C)	0,255	= 0,075 + 0,034 + 0,145	DSTL5	0,000	DSTL5	0,002		
K1V2	2L50X5D1	DSTL5	(C)	0,136	= 0,071 + 0,013 + 0,051	DSTL3	0,001	DSTL4	0,002		
K1V3	2L50X5D1	DSTL2	(C)	0,188	= 0,071 + 0,032 + 0,085	DSTL5	0,000	DSTL5	0,000		
K1V4	2L50X5D1	DSTL1	(C)	0,087	= 0,036 + 0,011 + 0,001	DSTL5	0,000	DSTL4	0,000		
K1V5	2L50X6D1	DSTL5	(C)	0,089	= 0,065 + 0,015 + 0,009	DSTL6	0,002	DSTL5	0,004		
K1V6	2L50X5D1	DSTL6	(C)	0,185	= 0,010 + 0,067 + 0,111	DSTL6	0,002	DSTL5	0,004		
K2A1	2L50X5D1	DSTL6	(C)	0,189	= 0,010 + 0,068 + 0,111	DSTL5	0,002	DSTL5	0,004		
K2A2	2L50X5D1	DSTL4	(T)	0,162	= 0,013 + 0,049 + 0,100	DSTL1	0,002	DSTL5	0,004		
K2A3	2L50X5D1	DSTL6	(T)	0,162	= 0,013 + 0,049 + 0,100	DSTL1	0,002	DSTL4	0,000		
K2A4	2L50X5D1	DSTL3 COMB2	(C) (T)	0,068 0,003	= 0,017 + 0,042 + 0,009 = 0,000 + 0,002 + 0,000	DSTL5	0,002	DSTL6	0,000		
K2A5	2L50X5D1	DSTL5 COMB2	(C) (T)	0,070 0,003	= 0,019 + 0,042 + 0,008 = 0,000 + 0,002 + 0,000	DSTL1	0,002	DSTL4	0,001		
K2A6	2L50X5D1	DSTL3	(C)	0,169	= 0,089 + 0,037 + 0,043	DSTL1	0,002	DSTL6	0,002		
K2A7	2L50X5D1	DSTL5	(C)	0,173	= 0,093 + 0,032 + 0,048	DSTL1	0,001	DSTL4	0,005		
K2A8	2L50X5D1	DSTL3	(C)	0,467	= 0,311 + 0,019 + 0,136	DSTL1	0,001	DSTL6	0,005		
K2A9	2L50X5D1	DSTL5	(C)	0,471	= 0,315 + 0,018 + 0,138	DSTL1	0,002	DSTL6	0,003		
K2B1	2L50X5D1	DSTL3	(C)	0,163	= 0,024 + 0,033 + 0,106	DSTL1	0,002	DSTL4	0,004		

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S T A T I C L O A D C A S E S

STATIC CASE	CASE TYPE	SELF WT FACTOR
DL	DEAD	1,0000
LL	LIVE	0,0000
WL	WIND	0,0000
WD	WIND	0,0000

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J O I N T D A T A

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	RESTRAINTS	ANGLE-A	ANGLE-B	ANGLE-C
1	0,00000	0,00000	4,50000	0 0 0 0 0 0	0,000	0,000	0,000
2	4,50000	0,00000	0,00000	0 0 0 0 0 0	0,000	0,000	0,000
3	3,50000	0,00000	0,00000	1 1 1 0 0 0	0,000	0,000	0,000
4	0,00000	0,00000	2,50000	0 0 0 0 0 0	0,000	0,000	0,000
5	1,20000	0,00000	3,30000	0 0 0 0 0 0	0,000	0,000	0,000
6	1,20010	0,00000	1,04264	0 0 0 0 0 0	0,000	0,000	0,000
7	2,29998	0,00000	0,99216	0 0 0 0 0 0	0,000	0,000	0,000
8	2,30000	0,00000	2,20000	0 0 0 0 0 0	0,000	0,000	0,000
9	3,50000	0,00000	1,00000	0 0 0 0 0 0	0,000	0,000	0,000
10	1,20004	1,20000	3,30000	0 0 0 0 0 0	0,000	0,000	0,000
11	1,20000	4,50000	0,00000	0 0 0 0 0 0	0,000	0,000	0,000
12	1,20000	3,50000	0,00000	1 1 1 0 0 0	0,000	0,000	0,000
13	1,20004	1,20000	1,04000	0 0 0 0 0 0	0,000	0,000	0,000
14	1,20000	3,29994	0,95556	0 0 0 0 0 0	0,000	0,000	0,000
15	1,20000	2,30000	2,20000	0 0 0 0 0 0	0,000	0,000	0,000
16	1,20000	7,50000	1,00000	0 0 0 0 0 0	0,000	0,000	0,000
17	-4,50000	0,00000	0,00000	0 0 0 0 0 0	0,000	0,000	0,000
18	-3,50000	0,00000	0,00000	1 1 1 0 0 0	0,000	0,000	0,000
19	-1,20000	0,00000	3,30000	0 0 0 0 0 0	0,000	0,000	0,000
20	-2,30000	0,00000	2,20000	0 0 0 0 0 0	0,000	0,000	0,000
21	-3,50000	0,00000	1,00000	0 0 0 0 0 0	0,000	0,000	0,000
22	-1,20004	0,00000	1,04264	0 0 0 0 0 0	0,000	0,000	0,000
23	-0,29998	0,00000	0,95716	0 0 0 0 0 0	0,000	0,000	0,000
24	-1,20000	1,20000	3,30000	0 0 0 0 0 0	0,000	0,000	0,000
25	-1,20000	2,30000	2,20000	0 0 0 0 0 0	0,000	0,000	0,000
26	-1,20000	3,50000	1,00000	0 0 0 0 0 0	0,000	0,000	0,000
27	-1,20000	4,30000	0,00000	0 0 0 0 0 0	0,000	0,000	0,000
28	-1,20000	1,20000	1,04000	0 0 0 0 0 0	0,000	0,000	0,000
29	-1,20000	3,29994	0,95556	0 0 0 0 0 0	0,000	0,000	0,000
30	-1,20000	7,50000	0,00000	1 1 1 0 0 0	0,000	0,000	0,000
31	-1,20000	2,29994	0,95556	0 0 0 0 0 0	0,000	0,000	0,000
32	-1,20000	5,50000	0,00000	1 1 1 0 0 0	0,000	0,000	0,000

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F R A M E E L E M E N T D A T A

FRAME	JNT-1	JNT-2	SECTION	ANGLE	RELEASES	SEGMENTS	S1	S2	FACTOR	LENGTH
FA1	03	06	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,414
FA2	07	11	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,414
FA3	27	28	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,697
FA4	15	19	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,697
FA5	16	17	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,556
FA6	30	16	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,556
FA7	21	25	SL45X45X	0,000	000000	4	0,000	0,000	1,000	2,200
FA8	5	10	SL45X45X	0,000	000000	4	0,000	0,000	1,000	1,200
FB1	02	29	SL45X45X	0,000	000000	4	0,000	0,000	1,000	1,000
FB2	12	11	SL45X45X	0,000	000000	4	0,000	0,000	1,000	1,000
FB3	31	32	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,474
FB4	14	10	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,474
FB5	08	03	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,051
FB6	13	14	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,051
FB7	00	04	SL45X45X	0,000	000000	4	0,000	0,000	1,000	1,200
FB8	12	5	SL45X45X	0,000	000000	1	0,000	0,000	1,000	1,200
FB1	31	20	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,209
FB2	04	17	SL45X45X	0,000	000000	2	0,000	0,000	1,000	2,693
FB3	00	27	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,804
FB4	19	16	SL45X45X	0,000	000000	2	0,000	0,000	1,000	1,204
FB5	26	24	SL45X45X	0,000	000000	2	0,000	0,000	1,000	0,045
FB6	19	5	SL45X45X	0,000	000000	2	0,000	0,000	1,000	2,048

FV1	16	15	21457482	0.000	000000	2	0.000	0.000	1.000	1.000
FV2	17	11	21457483	0.000	000000	2	0.000	1.000	1.000	2.000
FV3	23	11	21457484	0.000	000000	2	0.000	0.000	1.000	1.048
FV4	26	14	21457485	0.000	000000	2	0.000	0.000	1.000	1.048
FV5	30	24	21457486	0.000	000000	2	0.000	0.000	1.000	1.680
FV6	31	29	21457487	0.000	000000	2	0.000	0.000	1.000	1.680
FA1	10	17	21457488	0.000	000000	1	0.000	0.000	1.000	1.484
FA2	9	2	21457489	0.000	000000	1	0.000	0.000	1.000	1.484
FA3	11	20	21457490	0.000	000000	2	0.000	0.000	1.000	1.507
FA4	8	8	21457491	0.000	000000	2	0.000	0.000	1.000	1.507
FA5	21	22	21457492	0.000	000000	2	0.000	0.000	1.000	1.516
FA6	8	8	21457493	0.000	000000	2	0.000	0.000	1.000	1.516
FA7	1	22	21457494	0.000	000000	2	0.000	0.000	1.000	1.537
FA8	1	8	21457495	0.000	000000	2	0.000	0.000	1.000	1.537
FB1	19	20	21457496	0.000	000000	4	0.000	0.000	1.000	1.000
FB2	8	8	21457497	0.000	000000	4	0.000	0.000	1.000	1.000
FB3	13	10	21457498	0.000	000000	2	0.000	0.000	1.000	1.477
FB4	7	7	21457499	0.000	000000	1	0.000	0.000	1.000	1.478
FB5	24	25	21457500	0.000	000000	1	0.000	0.000	1.000	1.751
FB6	6	7	21457501	0.000	000000	1	0.000	0.000	1.000	1.751
FB7	4	10	21457502	0.000	000000	2	0.000	0.000	1.000	1.475
FB8	4	6	21457503	0.000	000000	2	0.000	0.000	1.000	1.475
FD1	15	12	21457504	0.000	000000	1	0.000	0.000	1.000	1.000
FD2	7	7	21457505	0.000	000000	1	0.000	0.000	1.000	1.000
FD3	24	25	21457506	0.000	000000	1	0.000	0.000	1.000	1.222
FD4	5	6	21457507	0.000	000000	1	0.000	0.000	1.000	1.222
FD5	8	11	21457508	0.000	000000	2	0.000	0.000	1.000	1.441
FD6	4	6	21457509	0.000	000000	2	0.000	0.000	1.000	1.441
FD7	23	29	21457510	0.000	000000	1	0.000	0.000	1.000	1.000
FD8	9	2	21457511	0.000	000000	1	0.000	0.000	1.000	1.000
FV7	21	21	21457512	0.000	000000	1	0.000	0.000	1.000	1.343
FV8	8	7	21457513	0.000	000000	2	0.000	0.000	1.000	1.343
FV9	11	14	21457514	0.000	000000	2	0.000	0.000	1.000	1.537
FV0	9	6	21457515	0.000	000000	2	0.000	0.000	1.000	1.537
FV1	6	1	21457516	0.000	000000	2	0.000	0.000	1.000	2.000

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J O I N T F O R C E S Load Case DL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
1	0,000	0,000	-865,400	0,000	0,000	0,000
5	0,000	0,000	-884,100	0,000	0,000	0,000
10	0,000	0,000	-400,000	0,000	0,000	0,000
6	0,000	0,000	-309,000	0,000	0,000	0,000
15	0,000	0,000	-111,400	0,000	0,000	0,000
9	0,000	0,000	-861,600	0,000	0,000	0,000
17	0,000	0,000	-818,000	0,000	0,000	0,000
2	0,000	0,000	-995,800	0,000	0,000	0,000
11	0,000	0,000	-213,000	0,000	0,000	0,000
19	0,000	0,000	-335,800	0,000	0,000	0,000
21	0,000	0,000	-284,100	0,000	0,000	0,000
12	0,000	0,000	-336,200	0,000	0,000	0,000
13	0,000	0,000	-881,600	0,000	0,000	0,000
26	0,000	0,000	-400,000	0,000	0,000	0,000
27	0,000	0,000	-111,400	0,000	0,000	0,000
23	0,000	0,000	-818,000	0,000	0,000	0,000
29	0,000	0,000	-213,000	0,000	0,000	0,000
14	0,000	0,000	-51,000	0,000	0,000	0,000
31	0,000	0,000	-51,000	0,000	0,000	0,000

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J O I N T F O R C E S Load Case LL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
1	0,000	0,000	-100,000	0,000	0,000	0,000
2	0,000	0,000	-100,000	0,000	0,000	0,000
5	0,000	0,000	-100,000	0,000	0,000	0,000
6	0,000	0,000	-100,000	0,000	0,000	0,000
9	0,000	0,000	-100,000	0,000	0,000	0,000
10	0,000	0,000	-100,000	0,000	0,000	0,000
11	0,000	0,000	-100,000	0,000	0,000	0,000
15	0,000	0,000	-100,000	0,000	0,000	0,000
17	0,000	0,000	-100,000	0,000	0,000	0,000
19	0,000	0,000	-100,000	0,000	0,000	0,000
21	0,000	0,000	-100,000	0,000	0,000	0,000
22	0,000	0,000	-100,000	0,000	0,000	0,000
23	0,000	0,000	-100,000	0,000	0,000	0,000
26	0,000	0,000	-100,000	0,000	0,000	0,000
27	0,000	0,000	-100,000	0,000	0,000	0,000
28	0,000	0,000	-100,000	0,000	0,000	0,000

18	0,000	0,000	-100,000	0,000	0,000	0,000

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J O I N T F O R C E S Load Case WL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
10	116,400	0,000	-116,400	0,000	0,000	0,000
12	131,950	0,000	-131,950	0,000	0,000	0,000
20	171,010	0,000	-171,010	0,000	0,000	0,000
21	98,360	0,000	98,360	0,000	0,000	0,000
1	90,410	0,000	-10,270	0,000	0,000	0,000
5	79,860	0,000	79,860	0,000	0,000	0,000
8	93,850	0,000	93,850	0,000	0,000	0,000
9	105,560	0,000	105,560	0,000	0,000	0,000
1	92,220	0,000	92,220	0,000	0,000	0,000

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J O I N T F O R C E S Load Case WB

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
2	-131,950	0,000	-131,950	0,000	0,000	0,000
19	-92,820	0,000	92,820	0,000	0,000	0,000
9	-131,950	0,000	-131,950	0,000	0,000	0,000
23	-105,560	0,000	105,560	0,000	0,000	0,000
6	-171,810	0,000	-171,810	0,000	0,000	0,000
22	-93,850	0,000	93,850	0,000	0,000	0,000
5	-98,360	0,000	-98,360	0,000	0,000	0,000
21	-79,860	0,000	79,860	0,000	0,000	0,000
1	-92,410	0,000	-10,270	0,000	0,000	0,000

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L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
DSTL1	ADD				DSTL1
		DL	1.4000	STATIC(DEAD)	
DSTL2	ADD				DSTL2
		DL	1.2000	STATIC(DEAD)	
		LL	1.6000	STATIC(LIVE)	
DSTL3	ADD				DSTL3
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WL	1.3000	STATIC(WIND)	
DSTL4	ADD				DSTL4
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WL	-1.3000	STATIC(WIND)	
DSTL5	ADD				DSTL5
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WR	1.3000	STATIC(WIND)	
DSTL6	ADD				DSTL6
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WR	-1.3000	STATIC(WIND)	
DSTL7	ADD				DSTL7
		DL	0.9000	STATIC(DEAD)	
		WL	1.3000	STATIC(WIND)	
DSTL8	ADD				DSTL8
		DL	0.9000	STATIC(DEAD)	
		WL	-1.3000	STATIC(WIND)	
DSTL9	ADD				DSTL9
		DL	0.9000	STATIC(DEAD)	
		WR	1.3000	STATIC(WIND)	
DSTL10	ADD				DSTL10
		DL	0.9000	STATIC(DEAD)	
		WR	-1.3000	STATIC(WIND)	

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J O I N T D I S P L A C E M E N T S

POINT	LOAD	U1	U2	U3	R1	R2	R3
1	Minima	-6,725E-05	-4,437E-04	-4,820E-04	0,0000	0,0000	0,0000
		DSTL9	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
1	Maxima	6,725E-05	-1,425E-05	-1,051E-05	0,0000	0,0000	0,0000
		DSTL7	WL	WL	DSTL10	DSTL10	DSTL10
2	Minima	-4,602E-05	-2,023E-05	-2,020E-04	0,0000	0,0000	0,0000
		DSTL6	DSTL2	DSTL1	DSTL10	DSTL10	DSTL10
2	Maxima	1,064E-05	1,020E-05	8,974E-05	0,0000	0,0000	0,0000
		WL	WL	WR	DSTL10	DSTL10	DSTL10
3	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
3	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
4	Minima	-1,301E-04	-4,064E-04	-4,868E-04	0,0000	0,0000	0,0000
		DSTL9	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
4	Maxima	1,303E-04	-1,159E-05	-1,066E-05	0,0000	0,0000	0,0000
		DSTL7	WL	WL	DSTL10	DSTL10	DSTL10
5	Minima	-1,701E-04	-4,277E-04	-4,740E-04	0,0000	0,0000	0,0000
		DSTL7	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10

5	Maximum	5,2468E-05	4,1428E-05	3,6503E-01	0,0000	0,0000	0,0000
		WL	WL	WL	DSTL10	DSTL10	DSTL10
6	Minimum	-2,1118E-04	-3,4026E-04	-9,2198E-04	0,0000	0,0000	0,0000
		DSTL5	DSTL5	DSTL5	DSTL10	DSTL10	DSTL10
6	Maximum	1,1007E-04	1,8418E-05	4,7647E-05	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
7	Minimum	-1,1415E-04	-1,7402E-04	-8,8858E-04	0,0000	0,0000	0,0000
		DSTL2	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
7	Maximum	1,1664E-04	1,5248E-05	5,5498E-05	0,0000	0,0000	0,0000
		DSTL8	WL	WL	DSTL10	DSTL10	DSTL10
8	Minimum	-8,6102E-04	-6,7448E-04	-4,2654E-04	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
8	Maximum	1,1138E-04	1,9018E-05	5,0543E-05	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
9	Minimum	-9,8848E-05	-7,1228E-05	-1,1208E-04	0,0000	0,0000	0,0000
		WL	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
9	Maximum	1,4188E-04	4,8348E-06	1,4389E-05	0,0000	0,0000	0,0000
		DSTL8	WL	WL	DSTL10	DSTL10	DSTL10
10	Minimum	-1,4434E-04	-4,7864E-04	-4,8708E-04	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
10	Maximum	8,7965E-05	4,1798E-05	1,0460E-05	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
11	Minimum	-1,1028E-05	-2,4058E-05	-2,1758E-05	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
11	Maximum	7,2078E-06	0,0000	3,4931E-06	0,0000	0,0000	0,0000
		DSTL10	WL	DSTL9	DSTL10	DSTL10	DSTL10
12	Minimum	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
12	Maximum	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
13	Minimum	-1,4306E-04	-8,1918E-05	-6,8728E-04	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
13	Maximum	8,5116E-05	1,8728E-05	1,9938E-05	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
14	Minimum	-7,1748E-05	-1,6478E-04	-4,1028E-04	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
14	Maximum	4,2038E-05	9,9378E-06	1,0128E-05	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
15	Minimum	-1,2478E-04	-3,8868E-04	-3,9038E-04	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
15	Maximum	7,0358E-05	1,6978E-05	1,5448E-05	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
17	Minimum	-4,6658E-05	-1,5128E-04	-6,8018E-05	0,0000	0,0000	0,0000
		DSTL5	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
17	Maximum	2,7508E-05	1,1678E-05	0,0000	0,0000	0,0000	0,0000
		DSTL10	WL	WL	DSTL10	DSTL10	DSTL10
18	Minimum	-1,0848E-05	-2,0038E-05	-2,8108E-04	0,0000	0,0000	0,0000
		WL	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
18	Maximum	4,9578E-05	1,2008E-06	3,7998E-05	0,0000	0,0000	0,0000
		DSTL8	WL	WL	DSTL10	DSTL10	DSTL10
20	Minimum	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
20	Maximum	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
21	Minimum	-9,0078E-05	-4,7788E-04	-4,7678E-04	0,0000	0,0000	0,0000
		DSTL8	DSTL8	DSTL2	DSTL10	DSTL10	DSTL10
21	Maximum	1,7238E-04	4,0878E-05	9,5708E-05	0,0000	0,0000	0,0000
		DSTL8	WR	WR	DSTL10	DSTL10	DSTL10
22	Minimum	-1,0568E-04	-2,7648E-04	-4,2628E-04	0,0000	0,0000	0,0000
		DSTL8	DSTL8	DSTL2	DSTL10	DSTL10	DSTL10
22	Maximum	2,2478E-04	1,8708E-05	5,7368E-06	0,0000	0,0000	0,0000
		DSTL8	WR	WR	DSTL10	DSTL10	DSTL10
23	Minimum	-1,0608E-04	-7,8978E-05	-1,1738E-04	0,0000	0,0000	0,0000
		DSTL4	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
23	Maximum	9,1718E-05	4,9248E-06	1,4078E-05	0,0000	0,0000	0,0000
		WL	WR	WR	DSTL10	DSTL10	DSTL10
24	Minimum	-1,3098E-04	-7,4068E-04	-5,1368E-04	0,0000	0,0000	0,0000
		DSTL2	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
24	Maximum	2,1638E-04	1,9138E-05	4,6938E-05	0,0000	0,0000	0,0000
		DSTL2	WR	WR	DSTL10	DSTL10	DSTL10

25	Minimum	-1,1678E-04	-1,0468E-04	-3,6047E-04	0,0000	0,0000	0,0000
		DSTL4	DSTL5	DSTL2	DSTL10	DSTL10	DSTL10
	Maximum	1,1748E-04	1,0077E-04	3,4868E-04	0,0000	0,0000	0,0000
		DSTL7	WB	WB	DSTL10	DSTL10	DSTL10
26	Minimum	-9,0146E-05	-4,5955E-04	-4,8705E-04	0,0000	0,0000	0,0000
		DSTL8	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
	Maximum	1,0098E-04	4,1045E-05	2,8945E-07	0,0000	0,0000	0,0000
		DSTL3	WB	WB	DSTL10	DSTL10	DSTL10
27	Minimum	-7,2008E-05	-5,8606E-04	-5,5066E-04	0,0000	0,0000	0,0000
		DSTL7	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
	Maximum	1,0245E-04	1,6578E-05	1,8026E-06	0,0000	0,0000	0,0000
		DSTL8	WB	WB	DSTL10	DSTL10	DSTL10
28	Minimum	-2,8105E-05	-1,5018E-04	-6,8618E-05	0,0000	0,0000	0,0000
		DSTL8	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
	Maximum	4,7303E-05	1,1508E-05	0,0000	0,0000	0,0000	0,0000
		DSTL2	WB	WB	DSTL10	DSTL10	DSTL10
29	Minimum	-7,4425E-05	-1,4658E-05	-7,2918E-05	0,0000	0,0000	0,0000
		DSTL2	DSTL2	DSTL4	DSTL10	DSTL10	DSTL10
	Maximum	1,2503E-05	0,0000	9,5003E-05	0,0000	0,0000	0,0000
		DSTL8	WB	WB	DSTL10	DSTL10	DSTL10
30	Minimum	-8,8012E-05	-3,1918E-04	-4,9172E-04	0,0000	0,0000	0,0000
		DSTL8	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
	Maximum	1,4892E-04	1,5403E-05	2,8485E-05	0,0000	0,0000	0,0000
		DSTL3	WB	WB	DSTL10	DSTL10	DSTL10
31	Minimum	-4,3678E-05	-1,6478E-04	-3,1338E-04	0,0000	0,0000	0,0000
		DSTL8	DSTL2	DSTL2	DSTL10	DSTL10	DSTL10
	Maximum	1,4788E-05	7,8488E-06	1,5108E-05	0,0000	0,0000	0,0000
		DSTL3	WB	WB	DSTL10	DSTL10	DSTL10
32	Minimum	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10
	Maximum	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DSTL10	DSTL10	DSTL10	DSTL10	DSTL10	DSTL10

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Summary Data

F R A M E E L E M E N T F O R C E S

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
FA1	Minimum		-8,4448E-01	-2,92	-1,30	0,00	-8,1848E-01	-2,42
			WB	DSTL4	DSTL3	DSTL10	DSTL3	DSTL3
FA1	Maximum		606,22	8,46	7,7417E-01	0,00	9,1028E-01	5,495E-01
			DSTL2	DSTL1	DSTL3	DSTL10	DSTL3	DSTL3
FA2	Minimum		-8,5702E-01	-1,91	-7,5568E-01	0,00	-9,057E-01	-2,43
			WL	DSTL5	DSTL10	DSTL10	DSTL5	DSTL5
FA2	Maximum		606,80	6,46	1,28	0,00	9,057E-01	5,401E-01
			DSTL2	DSTL1	DSTL5	DSTL10	DSTL5	DSTL1
FA3	Minimum		-331,31	-3,08	-1,63	0,00	-1,30	-3,86
			DSTL2	DSTL1	DSTL2	DSTL10	DSTL3	DSTL2
FA3	Maximum		4,0428-01	2,10	9,5208-01	0,00	1,28	1,14
			WW	DSTL1	DSTL2	DSTL10	DSTL3	DSTL2
FA4	Minimum		-331,31	-3,08	-9,092E-01	0,00	-1,36	-3,86
			DSTL2	DSTL1	DSTL10	DSTL10	DSTL5	DSTL2
FA4	Maximum		4,358E-01	2,10	1,61	0,00	1,36	1,14
			WL	DSTL1	DSTL5	DSTL10	DSTL5	DSTL2
FA5	Minimum		-471,81	-3,68	-1,13	0,00	-8,787E-01	-2,56
			DSTL2	DSTL1	DSTL3	DSTL10	DSTL3	DSTL3
FA5	Maximum		1,16	6,58	5,625E-01	0,00	8,787E-01	6,646E-01
			WR	DSTL1	W1	DSTL10	DSTL3	DSTL1
FA6	Minimum		-471,81	-3,68	-8,746E-01	0,00	-8,701E-01	-2,56
			DSTL2	DSTL1	WB	DSTL10	DSTL4	DSTL3
FA6	Maximum		1,19	6,58	1,10	0,00	8,701E-01	6,646E-01
			WL	DSTL1	DSTL4	DSTL10	DSTL4	DSTL1
FA7	Minimum		-15,91	-6,76	-7,286E-01	0,00	-4,341E-01	-1,23
			DSTL2	DSTL1	DSTL5	DSTL10	DSTL5	DSTL4
FA7	Maximum		4,19	5,93	5,822E-01	0,00	4,341E-01	5,599E-01
			WR	DSTL1	WP	DSTL10	DSTL5	DSTL1

FA8	Minimum	-15,45	-5,76	-2,970E-01	0,00	-4,168E-01	-1,14
		DSTL9	DSTL1	WL	DSTL10	DSTL4	DSTL6
FA8	Maximum	4,22	8,41	7,407E-01	0,00	4,456E-01	5,693E-01
		WL	DSTL1	DSTL4	DSTL10	DSTL4	DSTL1
FB1	Minimum	-427,23	-4,69	-7,741E-01	0,00	-5,490E-01	-1,24
		DSTL7	DSTL4	DSTL8	DSTL10	DSTL3	DSTL3
FB1	Maximum	7,501E-01	1,10	1,10	0,00	6,407E-01	4,040E-01
		WP	DSTL1	DSTL8	DSTL10	DSTL3	DSTL7
FB2	Minimum	-427,23	4,88	-1,36	0,00	-6,984E-01	-1,23
		DSTL7	DSTL8	DSTL8	DSTL10	DSTL6	DSTL5
FB2	Maximum	7,624E-01	1,10	7,536E-01	0,00	6,406E-01	4,040E-01
		WL	DSTL1	DSTL10	DSTL10	DSTL5	DSTL8
FB3	Minimum	-568,15	-1,96	2,40	0,00	-1,77	-4,35
		DSTL2	DSTL1	DSTL3	DSTL10	DSTL3	DSTL2
FB3	Maximum	2,27	3,28	1,44	0,00	1,77	1,98
		WP	DSTL1	DSTL8	DSTL10	DSTL3	DSTL2
FB4	Minimum	-568,15	-1,90	-1,41	0,00	-1,74	-4,35
		DSTL2	DSTL1	DSTL10	DSTL10	DSTL5	DSTL5
FB4	Maximum	0,97	3,15	2,97	0,00	1,74	1,98
		WL	DSTL1	DSTL8	DSTL10	DSTL5	DSTL2
FB5	Minimum	-8,01	-1,90	-3,12	0,00	-2,10	-3,55
		WL	DSTL4	DSTL3	DSTL10	DSTL3	DSTL2
FB5	Maximum	150,20	8,41	1,90	0,00	2,10	1,57
		DSTL2	DSTL1	DSTL8	DSTL10	DSTL3	DSTL2
FB6	Minimum	-8,35	-1,98	-1,66	0,00	-2,07	-3,55
		WP	DSTL5	DSTL10	DSTL10	DSTL4	DSTL2
FB6	Maximum	250,28	8,41	8,07	0,00	2,07	1,57
		DSTL2	DSTL1	DSTL8	DSTL10	DSTL3	DSTL2
FB7	Minimum	-5,20	-5,70	-4,89	0,00	-2,57	-1,50
		WL	DSTL3	DSTL2	DSTL10	DSTL3	DSTL3
FB7	Maximum	310,26	5,62	2,77	0,00	1,57	5,590E-01
		DSTL2	DSTL4	DSTL8	DSTL10	DSTL3	DSTL1
FB8	Minimum	-8,36	-5,65	-2,71	0,00	-2,53	-1,50
		WP	DSTL5	DSTL10	DSTL10	DSTL5	DSTL5
FB8	Maximum	310,20	8,62	4,02	0,00	2,53	5,593E-01
		DSTL2	DSTL8	DSTL8	DSTL10	DSTL3	DSTL1
FD1	Minimum	-2,13	-1,35	-1,51	0,00	-9,165E-01	-4,18
		WP	DSTL8	DSTL3	DSTL10	DSTL3	DSTL2
FD1	Maximum	677,15	10,27	9,301E-01	0,00	9,145E-01	2,26
		DSTL2	DSTL1	DSTL8	DSTL10	DSTL3	DSTL2
FD2	Minimum	-2,20	-1,34	-8,992E-01	0,00	-8,913E-01	-4,19
		WL	DSTL10	DSTL10	DSTL10	DSTL5	DSTL2
FD2	Maximum	677,15	10,27	1,49	0,00	9,013E-01	2,26
		DSTL2	DSTL1	DSTL5	DSTL10	DSTL5	DSTL2
FD3	Minimum	-1,52	-2,32	-1,30	0,00	-8,018E-01	-3,10
		WP	DSTL4	DSTL8	DSTL10	DSTL3	DSTL3
FD3	Maximum	127,49	8,13	8,018E-01	0,00	8,013E-01	1,29
		DSTL2	DSTL1	DSTL8	DSTL10	DSTL3	DSTL2
FD4	Minimum	-1,55	-2,33	-8,606E-01	0,00	-7,888E-01	-3,10
		WL	DSTL5	DSTL10	DSTL10	DSTL5	DSTL5
FD4	Maximum	127,49	8,13	1,28	0,00	7,888E-01	1,29
		DSTL2	DSTL1	DSTL5	DSTL10	DSTL5	DSTL5
FD5	Minimum	-544,79	-6,04	-6,667E-01	0,00	-6,821E-01	-2,36
		DSTL2	DSTL1	DSTL8	DSTL10	DSTL3	DSTL1
FD5	Maximum	8,42	8,15	8,436E-01	0,00	6,821E-01	8,537E-01
		WL	DSTL1	DSTL8	DSTL10	DSTL3	DSTL1
FD6	Minimum	-544,78	-6,04	-5,312E-01	0,00	-6,694E-01	-2,36
		DSTL2	DSTL1	DSTL10	DSTL10	DSTL5	DSTL1
FD6	Maximum	8,35	8,15	6,543E-01	0,00	6,694E-01	8,537E-01
		WP	DSTL1	DSTL5	DSTL10	DSTL5	DSTL1
FV1	Minimum	-1192,78	-1,94	-15,81	0,00	-7,91	-8,315E-01
		DSTL2	DSTL8	DSTL8	DSTL10	DSTL8	DSTL8
FV1	Maximum	1,46	1,10	1,20	0,00	7,91	9,216E-01
		WP	DSTL6	WP	DSTL10	DSTL3	DSTL3
FV2	Minimum	-1192,78	-1,97	-15,80	0,00	-7,90	-8,084E-01
		DSTL2	DSTL10	DSTL5	DSTL10	DSTL5	DSTL5
FV2	Maximum	1,48	1,82	1,21	0,00	7,90	8,084E-01
		WL	DSTL5	WL	DSTL10	DSTL5	DSTL5
FV3	Minimum	-480,78	-7,986E-01	-9,50	0,00	-6,39	-5,875E-01
		DSTL2	DSTL3	DSTL8	DSTL10	DSTL3	DSTL3

FV3	Maximum	1,91	4,57E-01	7,15E 01	0,00	6,39	5,57E-01
		WP	DSTL3	WP	DSTL10	DSTL6	DSTL3
FV4	Minimum	-1190,79	-4,46E-01	-9,49	0,00	-6,38	-5,20E-01
		DSTL1	DSTL7	DSTL2	DSTL10	DSTL2	DSTL6
FV4	Maximum	1,44	3,42E-01	7,30E-01	0,00	6,38	5,01E-01
		WL	DSTL3	WL	DSTL10	DSTL2	DSTL3
FV7	Minimum	-4,61	-6,00E-01	-9,48	0,00	-6,27	-1,0xE-01
		WL	WP	DSTL2	DSTL10	DSTL3	DSTL6
FV8	Maximum	108,01	1,44E-01	1,75E 01	0,00	6,37	1,+1E-01
		DSTL2	DSTL6	WP	DSTL10	DSTL7	DSTL6
FV9	Minimum	-4,67	-1,70E-01	-9,48	0,00	-6,27	-1,41E-01
		WP	DSTL4	DSTL5	DSTL10	DSTL5	DSTL4
FV9	Maximum	108,41	7,14E 01	6,10E-01	0,00	6,36	1,41E-01
		DSTL2	WL	WL	DSTL10	DSTL7	DSTL4
JA1	Minimum	-1150,99	-7,46	-1,45E-01	0,00	-1,49	-8,69
		WP	DSTL1	WL	DSTL10	DSTL2	DSTL1
JA1	Maximum	998,94	7,58	2,11	0,00	1,49	1,31
		DSTL1	DSTL3	DSTL1	DSTL10	DSTL2	DSTL4
JA2	Minimum	-1148,96	-7,72	-2,11	0,00	-1,49	-8,68
		WL	DSTL4	DSTL2	DSTL10	DSTL2	DSTL2
JA2	Maximum	998,91	8,40	1,57E-01	0,00	1,49	1,70
		DSTL5	DSTL5	WL	DSTL10	DSTL2	DSTL6
JA3	Minimum	-847,38	-2,67	-8,99E-01	0,00	-1,57	-8,97
		DSTL2	DSTL4	WL	DSTL10	DSTL2	DSTL3
JA3	Maximum	60,10	7,68	4,34	0,00	1,57	1,25
		WL	DSTL1	DSTL2	DSTL10	DSTL2	DSTL3
JA4	Minimum	-1033,44	-8,65	-4,33	0,00	-1,57	-8,76
		DSTL5	DSTL6	DSTL2	DSTL10	DSTL2	DSTL3
JA4	Maximum	48,15	7,01	2,00E-01	0,00	1,57	1,05
		WL	DSTL1	WL	DSTL10	DSTL1	DSTL5
JA5	Minimum	-1096,46	-8,71	-6,42E-01	0,00	-4,48	-1,35
		DSTL7	DSTL3	WP	DSTL10	DSTL2	DSTL4
JA5	Maximum	40,81	6,48	5,75	0,00	4,48	6,69E-01
		WP	DSTL1	DSTL3	DSTL10	DSTL3	DSTL1
JA6	Minimum	-1096,46	-4,70	-6,76	0,00	-4,48	-1,33
		DSTL2	DSTL1	DSTL5	DSTL10	DSTL5	DSTL6
JA6	Maximum	48,36	5,48	6,91E-01	0,00	4,48	5,84E-01
		WL	DSTL1	WL	DSTL10	DSTL5	DSTL1
JA7	Minimum	-400,01	-8,86	-1,35	0,00	-1,57	-8,16
		DSTL5	DSTL1	DSTL3	DSTL10	DSTL3	DSTL3
JA7	Maximum	57,30	1,33	1,45	0,00	1,57	7,31E-01
		WL	DSTL1	DSTL3	DSTL10	DSTL3	DSTL1
JA8	Minimum	-487,69	-5,08	-1,44	0,00	-1,56	-2,15
		DSTL3	DSTL1	DSTL10	DSTL10	DSTL5	DSTL5
JA8	Maximum	57,47	6,33	1,04	0,00	1,56	7,91E-01
		WL	DSTL1	DSTL5	DSTL10	DSTL5	DSTL1
JB1	Minimum	-794,91	-1,48	-2,11	0,00	-1,06	-6,35
		DSTL3	WL	DSTL2	DSTL10	DSTL2	DSTL2
JB1	Maximum	187,58	15,37	1,3xE-01	0,00	1,06	5,02
		WP	DSTL2	WP	DSTL10	DSTL2	DSTL2
JB2	Minimum	-797,85	-1,16	-1,30xE-01	0,00	-1,06	-6,35
		DSTL5	WP	WL	DSTL10	DSTL2	DSTL2
JB2	Maximum	187,30	15,37	2,11	0,00	1,06	5,02
		WL	DSTL2	DSTL2	DSTL10	DSTL2	DSTL2
JB3	Minimum	-1210,04	-4,00	-3,54E-01	0,00	-4,24	-4,43
		DSTL5	DSTL4	WP	DSTL10	DSTL2	DSTL3
JB3	Maximum	300,98	9,11	5,74	0,00	4,24	2,00
		WL	DSTL2	DSTL3	DSTL10	DSTL2	DSTL3
JB4	Minimum	-1120,26	-4,17	-5,74	0,00	-4,24	-4,41
		DSTL3	DSTL6	DSTL2	DSTL10	DSTL2	DSTL5
JB4	Maximum	295,68	9,17	3,60E-01	0,00	4,24	2,05
		WP	DSTL5	WL	DSTL10	DSTL1	DSTL5
JB5	Minimum	-1166,06	-2,54	-3,64E-01	0,00	-4,79	-8,01
		DSTL4	DSTL1	WP	DSTL10	DSTL2	DSTL7
JB5	Maximum	418,82	7,71	7,10	0,00	4,79	1,04
		WL	DSTL1	DSTL2	DSTL10	DSTL2	DSTL2
JB6	Minimum	-1161,72	-2,54	-7,10	0,00	-4,79	-8,01
		DSTL3	DSTL1	DSTL2	DSTL10	DSTL1	DSTL1
JB6	Maximum	408,46	7,71	3,6xE-01	0,00	4,79	1,04
		WP	DSTL1	WL	DSTL10	DSTL2	DSTL2

JE7	Minima	-784,80	-6,40	-0,419E-01	0,00	-2,94	-3,35
		D6TL6	D6TL3	W1	D6TL10	D6TL5	D6TL3
JE7	Maxima	865,29	5,49	3,19	0,00	2,94	5,276E-01
		W5	D6TL4	D6TL9	D6TL10	D6TL6	D6TL1
JE8	Minima	-756,09	-6,19	-3,19	0,00	-2,95	-3,34
		D6TL3	D6TL4	D6TL3	D6TL10	D6TL3	D6TL4
JE8	Maxima	855,79	5,41	7,849E-01	0,00	2,95	5,276E-01
		W9	D6TL6	W9	D6TL10	D6TL3	D6TL1
JE9	Minima	-85,61	-3,11	-6,479E-01	0,00	-0,50	-4,13
		W8	D6TL4	W8	D6TL10	D6TL3	D6TL3
JE9	Maxima	1102,90	10,04	8,22	0,00	3,52	4,06
		D6TL2	D6TL6	D6TL2	D6TL10	D6TL2	D6TL2
JEA	Minima	-85,70	-3,06	-5,79	0,00	-3,50	-4,10
		W1	D6TL6	D6TL9	D6TL10	D6TL2	D6TL5
JEA	Maxima	1123,90	9,98	8,501E-01	0,00	3,50	2,17
		D6TL1	D6TL5	W1	D6TL10	D6TL2	D6TL6
JEB	Minima	-194,56	-2,88	-2,281E-02	0,00	-2,22	-2,50
		W1	D6TL1	W6	D6TL10	D6TL1	D6TL3
JEB	Maxima	450,89	7,57	3,60	0,00	3,01	6,918E-01
		D6TL4	D6TL1	D6TL2	D6TL10	D6TL2	D6TL2
JEC	Minima	-188,47	-2,88	-3,60	0,00	-3,12	-2,50
		W5	D6TL4	D6TL2	D6TL10	D6TL2	D6TL2
JEC	Maxima	444,03	7,07	1,328E-01	0,00	2,22	6,918E-01
		D6TL6	D6TL1	W1	D6TL10	D6TL7	D6TL2
JED	Minima	-807,09	-6,11	-4,37	0,00	-3,15	-2,03
		D6TL3	D6TL1	D6TL3	D6TL10	D6TL5	D6TL5
JED	Maxima	197,01	6,07	1,85	0,00	3,15	6,722E-01
		W5	D6TL1	W1	D6TL10	D6TL3	D6TL1
JEE	Minima	-802,16	-5,12	-1,07	0,00	-3,13	-2,04
		D6TL5	D6TL4	W1	D6TL10	D6TL5	D6TL3
JEE	Maxima	196,85	6,07	4,35	0,00	3,13	6,721E-01
		W1	D6TL1	D6TL6	D6TL10	D6TL6	D6TL1
JEF	Minima	-2038,86	-3,57	-8,00	0,00	-4,00	-3,33
		D6TL3	W1	D6TL3	D6TL10	D6TL2	D6TL4
JEF	Maxima	147,31	6,45	6,120E-01	0,00	4,00	3,13
		W9	D6TL4	W8	D6TL10	D6TL2	D6TL4
JEG	Minima	-2048,03	-8,30	-8,00	0,00	-4,00	-8,15
		D6TL5	D6TL4	D6TL2	D6TL10	D6TL2	D6TL6
JEG	Maxima	847,42	3,45	5,197E-01	0,00	4,00	3,15
		W1	W8	W1	D6TL10	D6TL2	D6TL6
JEH	Minima	-816,15	-2,49	-4,49	0,00	-3,02	-1,61
		D6TL2	D6TL3	D6TL5	D6TL10	D6TL3	D6TL3
JEH	Maxima	30,91	5,697E-01	3,460E-01	0,00	3,02	1,61
		W8	W9	W9	D6TL10	D6TL3	D6TL3
JEI	Maxima	-818,15	-5,081E-01	-4,48	0,00	-3,01	-1,60
		D6TL7	W1	D6TL5	D6TL10	D6TL6	D6TL5
JEI	Maxima	31,02	3,39	3,41E-01	0,00	3,01	1,60
		W1	D6TL3	W1	D6TL10	D6TL5	D6TL5
JEJ	Minima	-137,13	-8,813E-01	-8,52	0,00	-2,92	-8,169E-01
		D6TL6	D6TL4	D6TL3	D6TL10	D6TL3	D6TL7
JEJ	Maxima	446,14	3,827E-01	5,061E-01	0,00	2,90	3,170E-01
		D6TL3	D6TL7	W8	D6TL10	D6TL3	D6TL7
JEK	Maxima	-130,08	-3,749E-01	-8,52	0,00	-2,91	-8,100E-01
		D6TL10	D6TL3	D6TL5	D6TL10	D6TL5	D6TL6
JEK	Maxima	439,03	3,729E-01	5,185E-01	0,00	2,91	3,098E-01
		D6TL5	D6TL6	W1	D6TL10	D6TL5	D6TL3
JEL	Minima	1,30	-3,093E-01	-6,477E-01	0,00	-6,477E-01	-3,093E-01
		W1	D6TL3	D6TL7	D6TL10	D6TL2	D6TL3
JEL	Maxima	45,69	3,093E-01	-8,580E-02	0,00	6,477E-01	3,093E-01
		D6TL2	D6TL3	W1	D6TL10	D6TL2	D6TL3

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M A T E R I A L P R O P E R T Y D A T A

MAT LABEL	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	WEIGHT PER UNIT VOL	MASS PER UNIT VOL
STEEL	199900.000	0.300	1.170E-05	7.849E-06	7.817E-09
BAJA	199900.000	0.300	1.170E-05	7.849E-06	7.817E-09

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M A T E R I A L D E S I G N D A T A

MAT LABEL	DESIGN CODE	STEEL FY	CONCRETE FC	REBAR FY	CONCRETE FCS	REBAR FYS
STEEL	S	240.000				
BAJA	S	240.000				

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F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	SECTION TYPE	DEPTH	FLANGE WIDTH	FLANGE THICK TOP	WEB THICK	FLANGE WIDTH BOTTOM	FLANGE THICK BOTTOM
FSEC1	STEEL		500.000	300.000	0.000	0.000	0.000	0.000
2L45X45X	BAJA	2L45X45X5-10	45.000	100.000	5.000	5.000	0.000	0.000
2L55X55X	BAJA	2L55X55X5-10	55.000	120.000	5.000	5.000	0.000	0.000
2L65X65X	BAJA	2L65X65X5-10	65.000	140.000	5.000	5.000	0.000	0.000
2L50X5D1	BAJA		50.000	100.000	5.000	5.000	0.000	0.000
2L60XCD1	BAJA		60.000	120.000	5.000	5.000	0.000	0.000
2L25X25X	STEEL	2L25X25X5-10	25.000	60.000	5.000	5.000	0.000	0.000
2L35X35X	STEEL	2L35X35X5-10	35.000	80.000	5.000	5.000	0.000	0.000
2L45X45X	STEEL	2L45X45X4-10	45.000	100.000	4.000	4.000	0.000	0.000
2L46X90X	STEEL	2L46X90X5-10	45.000	70.000	5.000	5.000	0.000	0.000

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F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	AREA	TORSIONAL INERTIA	MOMENTS OF INERTIA I33	I22	SHEAR AREAS A2	A3
FSEC1	150000.000	2.813E+09	3.125E+09	1.125E+09	125000.000	125000.000
2L45X45X	850.000	0.000	151000.000	413000.000	450.000	450.000
2L55X55X	1050.000	0.000	280000.000	744500.000	550.000	550.000
2L65X65X	1250.000	0.000	511000.000	1378166.000	650.000	650.000
2L50X5D1	925.000	9405.000	221031.729	568157.063	500.000	425.000
2L60XCD1	1125.000	9068.750	382842.750	845486.750	600.000	575.000
2L25X25X	450.000	0.000	24500.000	301250.000	250.000	250.000
2L35X35X	650.000	0.000	72700.000	229740.000	350.000	350.000
2L45X45X	585.000	0.000	130000.000	343000.000	450.000	368.421
2L46X90X	700.000	0.000	141000.000	156010.000	400.000	300.000

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F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	SECTION MODULII S33	S22	PLASTIC MODULII Z33	Z22	RADII OF GYRATION R33	R22
FSEC1	12500000.0	7500000.0	18750000.0	11250000.0	144.338	86.603
2L45X45X	5999.999	6760.000	5056.000	0.000	19.765	32.760
2L55X55X	10412.979	13475.500	7700.000	0.000	15.987	26.700
2L65X65X	18600.001	15830.000	10900.000	0.000	20.218	28.760
2L50X5D1	8863.900	9673.559	11710.855	17903.259	15.489	23.439
2L60XCD1	9171.449	13617.509	16561.141	21661.250	13.567	27.414
2L25X25X	1797.589	3071.000	1450.000	0.000	7.999	15.000
2L35X35X	4018.669	5745.500	4964.000	0.000	10.376	18.000
2L45X45X	5732.758	6966.000	4170.000	0.000	13.904	22.500
2L46X90X	4508.157	4740.140	4750.030	0.000	14.193	15.480

CSiBerkeley, Inc.

L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
DSTL1	ADD				DSTL1
		DL	1.4000	STATIC(DEAD)	
DSTL2	ADD				DSTL2
		DL	1.2000	STATIC(DEAD)	
		LL	1.6000	STATIC(LIVE)	
DSTL3	ADD				DSTL3
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WL	1.3000	STATIC(WIND)	
DSTL4	ADD				DSTL4
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WL	-1.3000	STATIC(WIND)	
DSTL5	ADD				DSTL5
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WL	1.3000	STATIC(WIND)	
DSTL6	ADD				DSTL6
		DL	1.2000	STATIC(DEAD)	
		LL	0.5000	STATIC(LIVE)	
		WL	-1.3000	STATIC(WIND)	
DSTL7	ADD				DSTL7
		DL	0.9000	STATIC(DEAD)	
		WL	1.3000	STATIC(WIND)	
DSTL8	ADD				DSTL8
		DL	0.9000	STATIC(DEAD)	
		WL	-1.3000	STATIC(WIND)	
DSTL9	ADD				DSTL9
		DL	0.9000	STATIC(DEAD)	
		WL	1.3000	STATIC(WIND)	
DSTL10	ADD				DSTL10
		DL	0.9000	STATIC(DEAD)	
		WL	-1.3000	STATIC(WIND)	

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C O D E P R E F E R E N C E S

Code: AISC-LRFD93

Phi_bending	0.9
Phi_tension	0.9
Phi_compression	0.85
Phi_shear	0.9

CSiBerkeley, Inc.

S T E E L S T R E S S C H E C K E L E M E N T I N F O R M A T I O N (AISC-LRFD93)

FRAME ID	SECTION ID	FRAMING TYPE	LLRF FACTOR	L ratio MAJOR	L ratio MINOR	K MAJOR	K MINOR
FA1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA7	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FA8	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000

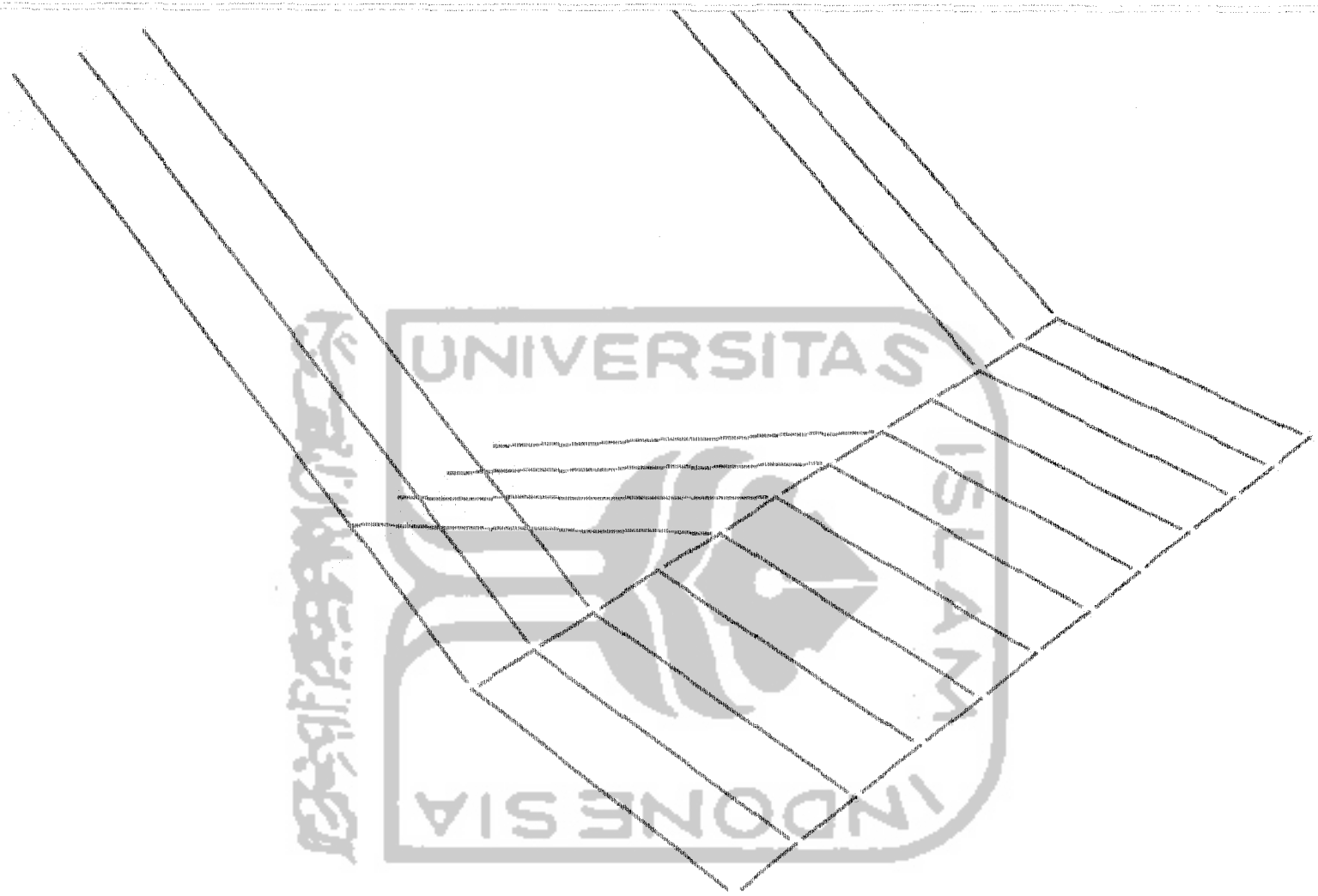
FB6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB7	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FB8	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FC1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FC2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FC3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FC4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FC5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FC6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FD1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.879
FD2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.879
FD3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FD4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
FD5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.591
FD6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.581
JA1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA7	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JA8	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JB1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JB2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JB3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JB4	2L45X45X5-10	MOMENT	1.000	1.000	1.917	1.000	1.000
JB5	2L45X45X5-10	MOMENT	1.000	1.000	2.031	1.000	1.000
JB6	2L45X45X5-10	MOMENT	1.000	1.000	1.181	1.000	1.000
JB7	2L45X45X5-10	MOMENT	1.000	1.000	1.346	1.000	1.000
JB8	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC7	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JC8	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.027	1.000
JD1	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.027	1.000
JD2	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JD3	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JD4	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000
JD5	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.581
JD6	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.581
JD7	2L45X45X5-10	MOMENT	1.000	1.000	1.000	1.000	1.000

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S T E E L S T R E S S C H E C K O U T P U T (AISC-LRFD99)

FRAME ID	SECTION ID	/----------MOMENT INTERACTION CHECK----------/ COMBO	RATIO	=	AXL +	B33 +	B22	/-----SHEAR33-----/ COMBO	RATIO	/-----SHEAR22-----/ COMBO	RATIO
FA1	2L45X45X5-10							DSTL1	0.001	DSTL3	0.000
		DSTL3 (T)	0.005	=	0.000	+ 0.003	+ 0.003				
FA2	2L45X45X5-10							DSTL1	0.001	DSTL5	0.000
		DSTL5 (T)	0.008	=	0.000	+ 0.002	+ 0.005				
FA3	2L45X45X5-10							DSTL1	0.001	DSTL3	0.000
		DSTL3 (C)	0.057	=	0.047	+ 0.000	+ 0.007				
FA4	2L45X45X5-10							DSTL1	0.001	DSTL5	0.000
		DSTL2 (C)	0.037	=	0.020	+ 0.005	+ 0.001				
FA5	2L45X45X5-10							DSTL1	0.001	DSTL3	0.000
		DSTL3 (C)	0.049	=	0.031	+ 0.003	+ 0.005				
FA6	2L45X45X5-10							DSTL1	0.001	DSTL4	0.000
		DSTL5 (C)	0.049	=	0.031	+ 0.013	+ 0.005				
FA7	2L45X45X5-10							DSTL1	0.001	DSTL6	0.000
		DSTL1 (C)	0.012	=	0.000	+ 0.011	+ 0.001				
		DSTL8 (T)	0.009	=	0.000	+ 0.007	+ 0.000				
FA8	2L45X45X5-10							DSTL1	0.001	DSTL4	0.000
		DSTL1 (C)	0.012	=	0.000	+ 0.011	+ 0.001				
		DSTL10 (T)	0.009	=	0.000	+ 0.009	+ 0.000				
FB1	2L45X45X5-10							DSTL1	0.001	DSTL9	0.000
		DSTL9 (C)	0.025	=	0.013	+ 0.011	+ 0.000				
FB2	2L45X45X5-10							DSTL1	0.001	DSTL3	0.000
		DSTL5 (C)	0.026	=	0.012	+ 0.011	+ 0.003				
FB3	2L45X45X5-10							DSTL1	0.002	DSTL3	0.000
		DSTL4 (C)	0.070	=	0.029	+ 0.009	+ 0.033				
FB4	2L45X45X5-10							DSTL1	0.002	DSTL5	0.000
		DSTL4 (C)	0.070	=	0.029	+ 0.009	+ 0.033				
FB5	2L45X45X5-10							DSTL1	0.001	DSTL2	0.001
		DSTL3 (T)	0.047	=	0.005	+ 0.031	+ 0.011				
FB6	2L45X45X5-10							DSTL1	0.001	DSTL5	0.001
		DSTL5 (T)	0.047	=	0.005	+ 0.031	+ 0.011				
FB7	2L45X45X5-10							DSTL3	0.001	DSTL8	0.001
		DSTL3 (T)	0.030	=	0.007	+ 0.010	+ 0.012				
FB8	2L45X45X5-10							DSTL5	0.001	DSTL5	0.001
		DSTL5 (T)	0.032	=	0.007	+ 0.010	+ 0.015				
FC1	2L45X45X5-10							DSTL1	0.002	DSTL3	0.000
		DSTL2 (T)	0.057	=	0.015	+ 0.039	+ 0.001				
FC2	2L45X45X5-10							DSTL1	0.002	DSTL5	0.000
		DSTL2 (T)	0.057	=	0.018	+ 0.038	+ 0.001				



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Kampus UI Ekonomi UII Block B

S T A T I C L O A D C A S E S

STATIC CASE	TYPE	SELF WT FACTOR
DD	DEAD	1,0000
LL	LIVE	0,0000

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Kampus UI Ekonomi UII Block B

F R A M E E L E M E N T D A T A

FRAME	JNT-1	JNT-2	SECTION	ANGLE	RELEASES	SEGMENTS	R1	R2	FACTOR	LENGTH
1	21	1	T640X25	0,000	000000	2	0,000	0,000	1,000	4,151
2	22	2	T640X25	0,000	000000	2	0,000	0,000	1,000	4,151
3	23	3	T640X25	0,000	000000	2	0,000	0,000	1,000	4,151
4	24	4	T640X25	0,000	000000	2	0,000	0,000	1,000	4,151
5	5	6	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
6	6	7	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
7	7	8	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
8	8	9	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
9	9	10	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
10	10	11	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
11	11	12	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
12	12	13	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
13	13	14	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
14	14	15	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
15	15	16	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
16	17	5	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
17	18	6	T640X25	0,000	000000	10	0,000	0,000	1,000	1,778
18	19	7	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
19	20	8	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
20	21	9	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
21	22	10	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
22	23	11	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
23	24	12	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
24	25	13	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
25	26	14	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
26	27	15	T640X25	0,000	000000	10	0,000	0,000	1,000	1,778
27	28	16	T640X25	0,000	000000	4	0,000	0,000	1,000	1,778
28	17	18	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
29	18	19	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
30	19	20	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
31	20	21	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
32	31	22	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,450
33	32	23	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,450
34	33	24	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,450
35	34	25	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,450
36	35	26	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,450
37	36	27	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,450
38	37	28	BBR25X25	0,000	000000	4	0,000	0,000	1,000	0,400
39	17	29	T640X25	0,000	000000	4	0,000	0,000	1,000	4,151
40	29	18	T640X25	0,000	000000	10	0,000	0,000	1,000	4,151
41	19	31	T640X25	0,000	000000	4	0,000	0,000	1,000	4,151
42	25	26	T640X25	0,000	000000	4	0,000	0,000	1,000	4,151
43	26	27	T640X25	0,000	000000	10	0,000	0,000	1,000	4,151
44	28	34	T640X25	0,000	000000	4	0,000	0,000	1,000	4,151

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J O I N T F O R C E S Load Case LD

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
9	0,000	0,000	-2,466	0,000	0,000	0,000
10	0,000	0,000	-2,466	0,000	0,000	0,000
11	0,000	0,000	-2,466	0,000	0,000	0,000
11	0,000	0,000	-2,466	0,000	0,000	0,000

J O I N T F O R C E S Load Case LL

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	GLOBAL-XX	GLOBAL-YY	GLOBAL-ZZ
9	0,000	0,000	-0,980	0,000	0,000	0,000
10	0,000	0,000	-0,980	0,000	0,000	0,000
11	0,000	0,000	-0,980	0,000	0,000	0,000
12	0,000	0,000	-0,980	0,000	0,000	0,000

F R A M E S P A N D I S T R I B U T E D L O A D S Load Case LL

FRAME	TYPE	DIRECTION	DISTANCE-A	VALUE-A	DISTANCE-B	VALUE-B
4	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
5	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
6	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
1	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
40	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
43	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
41	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
39	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
44	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
42	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
17	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
26	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
15	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
18	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
25	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
27	FORCE	GLOBAL-Z	0,0000	-2,1320	1,0000	-2,1320
20	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
21	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
22	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
23	FORCE	GLOBAL-Z	0,0000	-2,4000	1,0000	-2,4000
19	FORCE	GLOBAL-Z	0,0000	-2,6700	1,0000	-2,6700
24	FORCE	GLOBAL-Z	0,0000	-2,6700	1,0000	-2,6700

F R A M E S P A N D I S T R I B U T E D L O A D S Load Case LL

FRAME	TYPE	DIRECTION	DISTANCE-A	VALUE-A	DISTANCE-B	VALUE-B
20	FORCE	GLOBAL-Z	0,0000	-1,4000	1,0000	-1,4000
21	FORCE	GLOBAL-Z	0,0000	-1,4000	1,0000	-1,4000
22	FORCE	GLOBAL-Z	0,0000	-1,4000	1,0000	-1,4000
23	FORCE	GLOBAL-Z	0,0000	-1,4000	1,0000	-1,4000
19	FORCE	GLOBAL-Z	0,0000	-1,4000	1,0000	-1,4000
24	FORCE	GLOBAL-Z	0,0000	-1,4000	1,0000	-1,4000
40	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
17	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
43	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
36	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
16	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
18	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
25	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
27	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
41	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
39	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
44	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
42	FORCE	GLOBAL-Z	0,0000	-1,2000	1,0000	-1,2000
4	FORCE	GLOBAL-Z	0,0000	-1,3500	1,0000	-1,3500
3	FORCE	GLOBAL-Z	0,0000	-1,3500	1,0000	-1,3500
5	FORCE	GLOBAL-Z	0,0000	-1,3500	1,0000	-1,3500
1	FORCE	GLOBAL-Z	0,0000	-1,3500	1,0000	-1,3500

Dony & Ochel. Engineer
Kampus DS Ekonomi UII Block B

L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
DCOM1	ADD				DCON1
		LL	1,4000	STATIC(DEAD)	
DCOM2	ADD				DCON2
		LD	1,2000	STATIC(DEAD)	
		LL	1,6000	STATIC(LIVE)	

Dony & Ochel. Engineer
Kampus DS Ekonomi UII Block B

J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
1	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON2	DCON2
1	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON2	DCON1
2	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON1	DCON2	DCON2	DCON2	DCON1
2	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON1	DCON2
3	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON1	DCON2
3	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON1	DCON1
4	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON1	DCON2	DCON2
4	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON1	DCON2
5	Minima	-0,1006	0,1083	-5,7040	2,820E-04	-0,507E-04	-8,208E-04
		DCON2	LL	DCON2	LL	DCON2	DCON2
5	Maxima	-0,0207	0,0311	-0,2833	2,940E-03	-5,001E-05	-1,501E-05
		LL	DCON2	LL	DCON2	LL	LL
6	Minima	-0,1265	0,1156	-5,5595	3,903E-04	-9,244E-04	-8,814E-04
		DCON2	LL	DCON2	LL	DCON2	DCON2
6	Maxima	-0,0297	0,7425	-0,6706	2,491E-03	-4,218E-05	-5,227E-05
		LL	DCON2	LL	DCON2	LL	LL
7	Minima	-0,1214	0,0774	-5,4609	3,982E-04	-2,505E-04	-4,660E-04
		DCON2	LL	DCON1	LL	DCON2	DCON1
7	Maxima	-0,0132	0,3304	-0,4558	2,501E-03	-2,751E-05	-7,078E-05
		LL	DCON1	LL	DCON1	LL	LL
8	Minima	-0,1017	0,0155	-5,3742	2,977E-04	-1,612E-04	-3,682E-04
		DCON2	LL	DCON1	LL	DCON1	DCON1
8	Maxima	-0,0150	0,1101	-0,3510	2,510E-03	-1,257E-05	-5,045E-05
		LL	DCON2	LL	DCON2	LL	LL
9	Minima	-0,0669	-0,0335	-5,0169	4,285E-04	-9,509E-05	-3,070E-04
		DCON2	DCON1	DCON1	LL	DCON1	DCON2
9	Maxima	-0,0106	-0,0093	-0,3487	2,588E-03	-1,909E-06	-4,913E-05
		LL	LL	LL	DCON2	LL	LL
10	Minima	-0,0231	-0,0959	-5,2946	4,255E-04	-0,448E-05	-9,855E-05
		DCON2	DCON2	DCON2	LL	DCON1	DCON2
10	Maxima	-2,879E-02	-0,0852	-0,8492	2,707E-03	1,504E-06	-1,573E-05
		LL	LL	LL	DCON2	LL	LL
11	Minima	2,679E-03	-0,0959	-5,2945	4,253E-04	-1,506E-06	1,573E-05
		LL	DCON2	DCON2	LL	LL	LL
11	Maxima	0,0230	-0,0853	-0,8491	2,707E-03	2,448E-05	9,853E-05
		DCON2	LL	LL	DCON2	DCON1	DCON2
12	Minima	0,0106	-0,0278	-5,0169	4,266E-04	1,909E-06	4,913E-05
		LL	DCON2	DCON2	LL	LL	LL
12	Maxima	0,0669	-0,0093	-0,3487	2,588E-03	9,509E-05	3,070E-04
		DCON2	LL	LL	DCON2	DCON1	DCON2
13	Minima	0,0150	0,0155	-5,3742	2,977E-04	1,257E-05	5,045E-05
		LL	LL	DCON2	LL	LL	LL
13	Maxima	0,1017	0,1101	-0,3510	2,510E-03	1,612E-04	3,682E-04

		DC0N3	DC0N1	LL	DC0N2	LN0N1	DC0N2
14	Minima	-0.0191	0.0704	-5.4609	2.981E-04	3.741E-05	7.976E-04
		LL	LL	DC0N1	LL	LL	LL
14	Maxima	0.1214	0.5004	-0.9566	2.591E-03	2.480E-04	4.869E-04
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
15	Minima	0.0018	0.1118	-5.8696	3.290E-04	4.013E-05	9.327E-05
		LL	LL	DC0N2	LL	LL	LL
15	Maxima	0.1209	0.7418	-0.9700	1.452E-03	3.940E-04	9.114E-04
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
16	Minima	0.0207	0.1799	-5.7041	1.000E-04	5.001E-06	9.401E-05
		LL	LL	DC0N2	LL	LL	LL
16	Maxima	0.1705	0.9911	0.0000	1.448E-03	6.697E-04	1.035E-03
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
17	Minima	0.0289	0.1848	-2.8714	2.207E-04	1.837E-04	-0.169E-04
		LL	LL	DC0N2	LL	DC0N2	DC0N2
17	Maxima	0.1259	0.7105	-0.1511	1.418E-03	6.451E-03	6.960E-03
		DC0N2	DC0N2	LL	DC0N2	LL	LL
18	Minima	0.0198	0.1196	-1.4212	2.045E-04	5.883E-04	-1.050E-04
		LL	LL	DC0N2	LL	DC0N1	DC0N2
18	Maxima	0.1230	0.7617	-0.4553	1.415E-03	9.041E-03	4.790E-03
		DC0N2	DC0N2	LL	DC0N2	LL	LL
19	Minima	0.0184	0.0827	-1.7818	1.407E-04	5.843E-04	4.482E-04
		LL	LL	DC0N2	LL	DC0N2	DC0N2
19	Maxima	0.1158	0.5934	-0.1166	1.552E-03	3.224E-05	8.971E-05
		DC0N2	DC0N2	LL	DC0N2	LL	LL
20	Minima	0.0156	0.0152	-1.1896	3.015E-04	-0.906E-04	4.090E-04
		LL	LL	DC0N2	LL	DC0N2	DC0N2
20	Maxima	0.0966	0.1062	-0.1840	2.049E-03	5.411E-05	5.810E-05
		DC0N2	DC0N2	LL	DC0N2	LL	LL
21	Minima	0.0101	-0.1786	-1.8171	2.808E-04	-7.616E-05	-2.497E-04
		LL	DC0N2	DC0N2	LL	DC0N1	DC0N2
21	Maxima	0.0606	-0.0463	-0.1648	1.678E-03	6.993E-05	4.019E-05
		DC0N2	LL	LL	DC0N2	LL	LL
22	Minima	0.498E-03	-0.4197	-1.8198	3.059E-04	8.012E-06	-7.003E-05
		LL	DC0N2	DC0N2	LL	LL	DC0N2
22	Maxima	0.0120	-0.0590	-0.1676	1.472E-03	1.787E-04	1.147E-05
		DC0N2	LL	LL	DC0N2	DC0N2	LL
23	Minima	-0.0200	-0.4197	-1.8242	2.889E-04	-1.787E-05	1.147E-05
		DC0N2	DC0N2	DC0N2	LL	DC0N1	LL
23	Maxima	-0.495E-03	-0.0590	-0.1676	1.472E-03	6.300E-06	7.000E-05
		LL	LL	LL	DC0N1	LL	DC0N2
24	Minima	-0.0606	-0.1786	-1.8171	2.505E-04	6.098E-06	4.022E-05
		DC0N2	DC0N2	DC0N2	LL	LL	LL
24	Maxima	-0.0101	-0.0463	-0.1648	1.678E-03	7.410E-05	1.497E-04
		LL	LL	LL	DC0N1	DC0N1	DC0N2
25	Minima	-0.0988	0.0150	-1.1898	2.206E-04	5.412E-05	5.810E-05
		DC0N2	LL	DC0N2	LL	LL	LL
25	Maxima	-0.0196	0.1062	-0.1840	2.049E-03	2.905E-04	4.290E-04
		LL	DC0N2	LL	DC0N2	DC0N2	DC0N2
26	Minima	-0.1188	0.0817	-1.9628	2.437E-04	8.034E-05	6.971E-05
		DC0N2	LL	DC0N2	LL	LL	LL
26	Maxima	-0.0184	0.5004	-0.2155	1.559E-03	5.647E-04	4.434E-04
		LL	DC0N2	LL	DC0N1	DC0N2	DC0N2
27	Minima	-0.1259	0.1192	-1.8752	2.240E-04	9.041E-05	4.790E-05
		DC0N2	LL	DC0N2	LL	LL	LL
27	Maxima	-0.0196	0.7657	-0.2159	1.446E-03	6.881E-04	9.001E-04
		LL	DC0N2	LL	DC0N2	DC0N2	DC0N2
28	Minima	-0.1259	0.1419	-1.9714	2.185E-04	8.131E-05	8.360E-05
		DC0N2	LL	DC0N2	LL	LL	LL
28	Maxima	-0.0199	0.9102	-0.2219	1.414E-03	5.971E-04	2.152E-04
		LL	DC0N2	LL	DC0N2	DC0N2	DC0N2
29	Minima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
29	Maxima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
30	Minima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
30	Maxima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
31	Minima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
31	Maxima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
32	Minima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
32	Maxima	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

		DCON2	DCON2	DCON2	DCON2	DCON2	DCON2
23	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON2	DCON2
23	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON2	DCON2
24	Minima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON2	DCON2
24	Maxima	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
		DCON2	DCON2	DCON2	DCON2	DCON2	DCON2

Sony & Ocher. Engineer
Kampus D3 Ekonomi UII Block B

F R A M E E L E M E N T F O R C E S

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
1	Minima		-141535,99	-19304,84	-3656,80	-166306,58	-9813440,60	-23875677,1
			DCON2	DCON2	DCON2	DCON2	DCON2	DCON2
1	Maxima		-19689,58	10573,49	-993,26	-40411,89	5164840,36	717364,20
			LL	DCON2	LL	LL	DCON2	DCON2
2	Minima		-76869,06	-18782,09	-752,12	-179076,16	-20001723,87	-20470983,6
			DCON2	DCON1	DCON3	DCON3	DCON2	DCON2
2	Maxima		-9827,72	11116,23	-111,87	-33981,75	1130066,36	495681,93
			LL	DCON2	LL	LL	DCON2	DCON3
3	Minima		-76869,06	-18782,09	111,87	33981,75	-1130066,58	-20470983,6
			DCON1	DCON2	LL	LL	DCON1	DCON2
3	Maxima		-9827,72	11116,23	752,12	179076,16	20001723,87	495681,93
			LL	DCON2	DCON1	DCON2	DCON2	DCON2
4	Minima		-141535,99	-19304,84	993,26	40411,89	-5164840,36	-23875677,1
			DCON2	DCON1	LL	LL	DCON1	DCON2
4	Maxima		-19689,58	10573,49	3656,80	166306,58	9813440,60	717364,20
			LL	DCON2	DCON2	DCON2	DCON2	DCON2
5	Minima		1009,18	-1915,68	3351,80	94497,22	-2554636,51	-974909,09
			LL	DCON2	LL	LL	DCON2	DCON2
5	Maxima		6677,40	-280,35	21523,45	505256,17	8054749,87	-80038,14
			DCON2	LL	DCON2	DCON2	DCON2	LL
6	Minima		3482,93	-3842,81	7466,29	91103,22	-7313219,84	-1924672,30
			LL	DCON2	LL	LL	DCON2	DCON2
6	Maxima		22264,85	-696,37	47516,99	444182,44	11693577,55	-109490,69
			DCON2	LL	DCON2	DCON2	DCON2	LL
7	Minima		7949,74	-5942,83	13423,19	-283914,98	-20843509,8	-3344365,20
			LL	DCON2	LL	DCON1	DCON2	DCON2
7	Maxima		50560,86	-1066,26	84819,01	-9391,43	18192780,78	215208,46
			DCON2	LL	DCON2	LL	DCON2	DCON2
8	Minima		15249,34	-1406,33	10050,59	290190,85	-19784841,6	-1573012,64
			LL	DCON2	LL	LL	DCON2	DCON2
8	Maxima		96502,89	357,76	91953,04	1744178,08	18118487,95	-55105,03
			DCON2	DCON1	DCON2	DCON2	DCON2	LL
9	Minima		19870,31	-736,55	4876,95	93401,05	-9836100,80	-1065722,73
			LL	DCON2	LL	LL	DCON2	DCON1
9	Maxima		121548,25	484,90	30183,91	517144,08	3746657,22	9052,14
			DCON2	DCON1	DCON2	DCON2	DCON2	LL
10	Minima		20433,85	-463,84	0,00	0,00	-2830960,12	-741977,40
			LL	DCON1	DCON3	DCON2	DCON2	DCON1
10	Maxima		128727,85	463,84	0,00	0,00	-455121,40	43580,31
			DCON2	DCON1	LL	LL	LL	LL
11	Minima		19870,31	-484,90	-30183,91	-517144,08	-9836100,80	-1065722,73
			LL	DCON1	DCON2	DCON2	DCON2	DCON1
11	Maxima		121548,25	736,55	-4876,95	-93401,05	3746657,22	9052,14
			DCON2	DCON2	LL	LL	DCON2	LL
12	Minima		15249,34	-357,76	-91953,04	-1744178,08	-18784841,6	-1573012,64
			LL	DCON1	DCON2	DCON2	DCON2	DCON2
12	Maxima		96502,89	1406,33	-10050,59	-290190,85	18118487,95	-55105,03
			DCON2	DCON2	LL	LL	DCON2	LL

13	Minima	7886,74	1566,08	-84618,01	9381,42	-30543709,6	-2340065,30
		LL	LL	DC0N2	LL	DC0N2	DC0N1
13	Maxima	50560,86	9840,85	-11403,19	259814,99	101990780,78	719208,42
		DC0N2	DC0N2	LL	DC0N1	DC0N2	DC0N2
14	Minima	3480,93	645,20	-47916,99	-444183,44	-7913319,84	-1834472,30
		LL	LL	DC0N2	DC0N2	DC0N2	DC0N2
14	Maxima	24184,85	3840,31	-7468,32	-91133,38	11674577,55	-136480,99
		DC0N2	DC0N2	LL	LL	DC0N2	LL
15	Minima	1038,33	200,53	-11523,45	-505886,17	-2514636,61	-974909,39
		LL	LL	DC0N2	DC0N2	DC0N2	DC0N2
15	Maxima	8677,40	1913,68	-3351,80	-94497,21	8004743,87	-80136,14
		DC0N2	DC0N2	LL	LL	DC0N2	LL
16	Minima	3651,80	-14903,03	-8637,40	-974909,09	-5817670,85	-15455413,6
		LL	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
16	Maxima	21523,45	-260,35	-1079,18	-164376,41	6054781,27	-64457,32
		DC0N2	LL	LL	LL	DC0N2	LL
17	Minima	4116,40	-15625,29	-15587,55	-1673674,43	-10466444,4	-16173049,5
		LL	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
17	Maxima	25993,54	-386,03	-2443,75	-287602,61	18466114,28	65033,88
		DC0N2	LL	LL	LL	DC0N2	DC0N1
18	Minima	5954,90	-15796,18	-28295,91	-1815457,05	-24804127,4	-15968930,6
		LL	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
18	Maxima	37102,02	-419,91	-4486,81	-333164,80	25506000,60	651135,87
		DC0N2	LL	LL	LL	DC0N2	DC0N2
19	Minima	-3665,97	-12843,62	-45942,03	-1798021,12	-42603978,	-9529279,54
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
19	Maxima	-772,59	3719,27	-7099,90	-339764,66	3906947,02	-188961,88
		LL	DC0N2	LL	LL	DC0N2	LL
20	Minima	-31769,13	-19434,95	-25045,37	-38066,00	-2709917,8	-20200037,3
		DC0N2	DC0N2	DC0N2	LL	DC0N2	DC0N2
20	Maxima	-8173,64	-696,69	-4020,97	137728,74	23531499,12	1227034,00
		LL	LL	LL	DC0N1	DC0N2	DC0N2
21	Minima	-30183,91	-19743,61	-7179,59	54538,17	-5780198,48	-21466725,7
		DC0N2	DC0N2	DC0N2	LL	DC0N2	DC0N2
21	Maxima	-4676,35	-756,84	-1163,34	332741,09	6865118,80	517144,88
		LL	LL	LL	DC0N2	DC0N2	DC0N2
22	Minima	-30183,91	-19743,61	1163,34	-332741,05	-6865118,80	-21466725,7
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
22	Maxima	-4676,35	-756,84	7179,59	-54538,17	5780198,48	517144,88
		LL	LL	DC0N2	LL	DC0N2	DC0N2
23	Minima	-31769,13	-19434,95	4020,97	-137728,74	-23531499,1	-20200037,3
		DC0N2	DC0N2	LL	DC0N1	DC0N2	DC0N2
23	Maxima	-8173,64	-696,69	25045,37	38066,00	30989167,78	1227034,00
		LL	LL	DC0N2	LL	DC0N2	DC0N2
24	Minima	-30665,97	-12843,62	7099,90	339764,66	-3906947,	-9529279,54
		DC0N2	DC0N2	LL	LL	DC0N2	DC0N2
24	Maxima	-772,59	3719,27	45942,03	1798021,12	42603977,99	-188961,88
		LL	DC0N2	DC0N2	DC0N2	DC0N2	LL
25	Minima	5954,90	-15796,18	4486,81	333164,80	-25506000,6	-15968930,6
		LL	DC0N2	LL	LL	DC0N2	DC0N2
25	Maxima	37102,02	-419,91	28295,91	1815457,05	24804127,24	651135,87
		DC0N2	LL	DC0N2	DC0N2	DC0N2	DC0N2
26	Minima	4116,40	-15625,29	2443,75	287602,61	-18468114,2	-16173049,5
		LL	DC0N2	LL	LL	DC0N2	DC0N2
26	Maxima	25993,54	-386,03	15587,55	1673674,43	18466444,41	65033,88
		DC0N2	LL	DC0N2	DC0N2	DC0N2	DC0N1
27	Minima	3651,80	-14903,03	1039,13	164376,41	-8054743,87	-15455413,6
		LL	DC0N2	LL	LL	DC0N2	DC0N2
27	Maxima	21523,45	-260,35	8677,40	974909,09	5817670,85	-64457,32
		DC0N2	LL	DC0N2	DC0N2	DC0N2	LL
28	Minima	-6714,31	1286,71	8696,12	67420,18	-3174089,81	-6308714,59
		DC0N2	LL	LL	LL	DC0N2	DC0N2
28	Maxima	-1038,97	7899,08	13142,95	357553,29	6083089,54	2479739,41
		LL	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
29	Minima	-31905,03	2382,93	7490,85	220136,52	-7371792,13	-3308293,14
		DC0N2	LL	LL	LL	DC0N2	DC0N2

29	Maxima	-3411,59	14054,85	47525,62	1301105,10	11738854,00	1172286,36
		LL	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
30	Minima	-48863,16	103,30	15250,29	791644,88	-102860146,0	-2797139,35
		DC0N2	LL	LL	LL	DC0N2	DC0N2
30	Maxima	-7606,73	2050,46	69683,87	40173373,89	11978361,73	-334119,34
		LL	DC0N2	DC0N2	DC0N2	DC0N2	LL
31	Minima	-348545,22	3362,39	15875,46	-46718078,68	-25909736,2	-3420419,56
		DC0N2	LL	LL	DC0N2	DC0N2	DC0N2
31	Maxima	-14908,33	15391,71	98535,20	-7249330,23	20766850,56	-1484470,04
		LL	DC0N2	DC0N2	LL	DC0N2	LL
32	Minima	-116933,70	-8612,69	5070,43	-10048350,19	-9685161,55	-3552518,13
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
32	Maxima	-16376,04	-1205,66	31870,20	-1488652,78	4485035,13	901534,30
		LL	LL	DC0N2	LL	DC0N2	DC0N2
33	Minima	-103481,20	-468,54	0,00	0,00	-2034668,87	182967,43
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	LL
33	Maxima	-19423,81	483,84	1,50	0,00	-331899,74	921143,23
		LL	DC0N2	LL	LL	LL	DC0N2
34	Minima	-115480,33	1265,69	-31678,20	148612,38	-9855168,55	-3552518,13
		DC0N2	LL	DC0N2	LL	DC0N2	DC0N2
34	Maxima	-16376,04	8517,69	-5030,43	10042759,42	4485025,18	901534,30
		LL	DC0N2	LL	DC0N2	DC0N2	DC0N2
35	Minima	-348545,01	-15391,91	-96535,22	724930,83	-253098708,2	-7928413,56
		DC0N2	DC0N2	DC0N2	LL	DC0N2	DC0N2
35	Maxima	-14908,33	-2262,39	-15605,88	4671839,58	20261830,56	-148470,04
		LL	LL	LL	DC0N2	DC0N2	LL
36	Minima	-48603,19	-3330,46	-95069,35	-14857379,89	-102860146,0	-2797139,35
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
36	Maxima	-7606,73	-335,20	-15153,29	-791644,88	21979581,73	-334119,34
		LL	LL	LL	LL	DC0N2	LL
37	Minima	-31906,03	-14054,85	-47525,62	-1301105,10	-7371782,13	-3309390,14
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
37	Maxima	-3411,59	-2282,83	-7498,85	-822136,52	11738864,00	1172286,36
		LL	LL	LL	LL	DC0N2	DC0N2
38	Minima	-6714,81	-7899,58	-23142,95	-357551,29	-3174099,81	-538734,59
		DC0N2	DC0N2	DC0N2	DC0N2	DC0N2	DC0N2
38	Maxima	-1035,57	-1196,71	-3656,13	-67420,16	4093589,54	2479783,41
		LL	LL	LL	LL	DC0N2	DC0N2
39	Minima	6651,88	-14766,57	-6,018E-01	223530,71	59230,13	-15812965,8
		LL	DC0N2	LL	LL	LL	DC0N2
39	Maxima	57465,41	11803,90	44,19	1446502,99	492534,96	1048811,76
		DC0N2	DC0N2	DC0N1	DC0N2	DC0N2	DC0N2
40	Minima	7730,68	-11313,46	-395,83	261500,40	-923381,63	-17116601,5
		LL	DC0N2	DC0N2	LL	DC0N2	DC0N2
40	Maxima	69658,05	15357,00	-39,74	1663427,61	719558,50	1277013,45
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
41	Minima	14182,73	-16340,80	-1698,75	272581,15	-4092100,43	-19443204,8
		LL	DC0N2	DC0N2	LL	DC0N2	DC0N2
41	Maxima	103136,89	10229,66	-269,66	1787548,44	2543714,04	683610,79
		DC0N2	DC0N2	LL	DC0N2	DC0N2	DC0N2
42	Minima	14182,73	-16340,80	269,66	-1787548,44	-2543714,04	-19443204,8
		LL	DC0N2	LL	DC0N2	DC0N2	DC0N2
42	Maxima	103136,89	10229,66	1698,75	-272531,15	4092100,43	683610,79
		DC0N2	DC0N2	DC0N2	LL	DC0N2	DC0N2
43	Minima	7730,68	-11313,46	70,24	-1663427,61	-719558,50	-17116601,5
		LL	DC0N2	LL	DC0N2	DC0N2	DC0N2
43	Maxima	69658,05	15357,00	395,83	-261500,40	923381,63	1277013,45
		DC0N2	DC0N2	DC0N2	LL	DC0N2	DC0N2
44	Minima	6651,88	-14766,57	-44,19	-1446502,99	-492534,96	-15812965,8
		LL	DC0N2	DC0N1	DC0N2	DC0N2	DC0N2
44	Maxima	57465,41	11803,90	6,018E-01	-223530,71	-59230,13	1048811,76
		DC0N2	DC0N2	LL	LL	LL	DC0N2

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Kampus D3 Ekonomi UII Block B

M A T E R I A L P R O P E R T Y D A T A

MAT LABEL	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	WEIGHT PER UNIT VOL	MASS PER UNIT VOL
CONC	19095.760	0.200	9.900E-06	2.358E-05	2.401E-09

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Kampus D3 Ekonomi UII Block B

M A T E R I A L D E S I G N D A T A

MAT LABEL	DESIGN CODE	STEEL FY	CONCRETE FC	REBAR FY	CONCRETE FCS	REBAR FYS
CONC			30,000	240,000	20,000	240,000

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Kampus D3 Ekonomi UII Block B

C O N C R E T E B E A M P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	BEAM DEPTH	BEAM WIDTH	TOP COVER	BOTTOM COVER	REBAR AT-1	REBAR AT-2	REBAR AB-1	REBAR AB-2
T650X15	CONC	650,000	300,000	25,000	25,000	0,000	0,000	0,000	0,000
T450X15	CONC	450,000	300,000	25,000	25,000	0,000	0,000	0,000	0,000
T400X15	CONC	400,000	300,000	25,000	25,000	0,000	0,000	0,000	0,000
BEAM15	CONC	250,000	250,000	25,000	25,000	0,000	0,000	0,000	0,000

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Kampus D3 Ekonomi UII Block B

L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
DCOM1	ADD				DCOM1
		LD	1,4000	STATIC(DEAD)	
DCOM2	ADD				DCOM2
		LD	1,2000	STATIC(DEAD)	
		LL	1,6000	STATIC(LIVE)	

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Kampus D3 Ekonomi UII Block B

C O D E P R E F E R E N C E S

Code: ACI 318-99

Phi_bending	: 0,8
Phi_tension	: 0,8
Phi_compression(Tied)	: 0,65
Phi_compression(Spiral)	: 0,7
Phi_shear	: 0,6

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Kampus D3 Ekonomi UII Block B

C O N C R E T E D E S I G N E L E M E N T I N F O R M A T I O N (ACI 318-99)

FRAME ID	SECTION ID	ELEMENT TYPE	FRAMING TYPE	DIFF FACTOR	L_ratio MAJOR	L_ratio MINOR	K MAJOR	K MINOR
1	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
2	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
3	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
4	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
5	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
6	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
7	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
8	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
9	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
10	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
11	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
12	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
13	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
14	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
15	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
16	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
17	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
18	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
19	TG50X25	BEAM	SWYSPEC	1,000	1,000	1,000		
20	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
21	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
22	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
23	TG45X25	BEAM	SWYSPEC	1,000	1,000	1,000		
24	TG60X25	BEAM	SWYSPEC	1,000	1,000	1,000		
25	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
26	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
27	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
28	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
29	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
30	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
31	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
32	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
33	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
34	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
35	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
36	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
37	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
38	BBR25X25	BEAM	SWYSPEC	1,000	1,000	1,000		
39	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
40	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
41	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
42	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
43	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		
44	TG40X25	BEAM	SWYSPEC	1,000	1,000	1,000		

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Kampus UG Ekonomi UII Block B

C O N C R E T E D E S I G N O U T P U T (ACI 318-99)

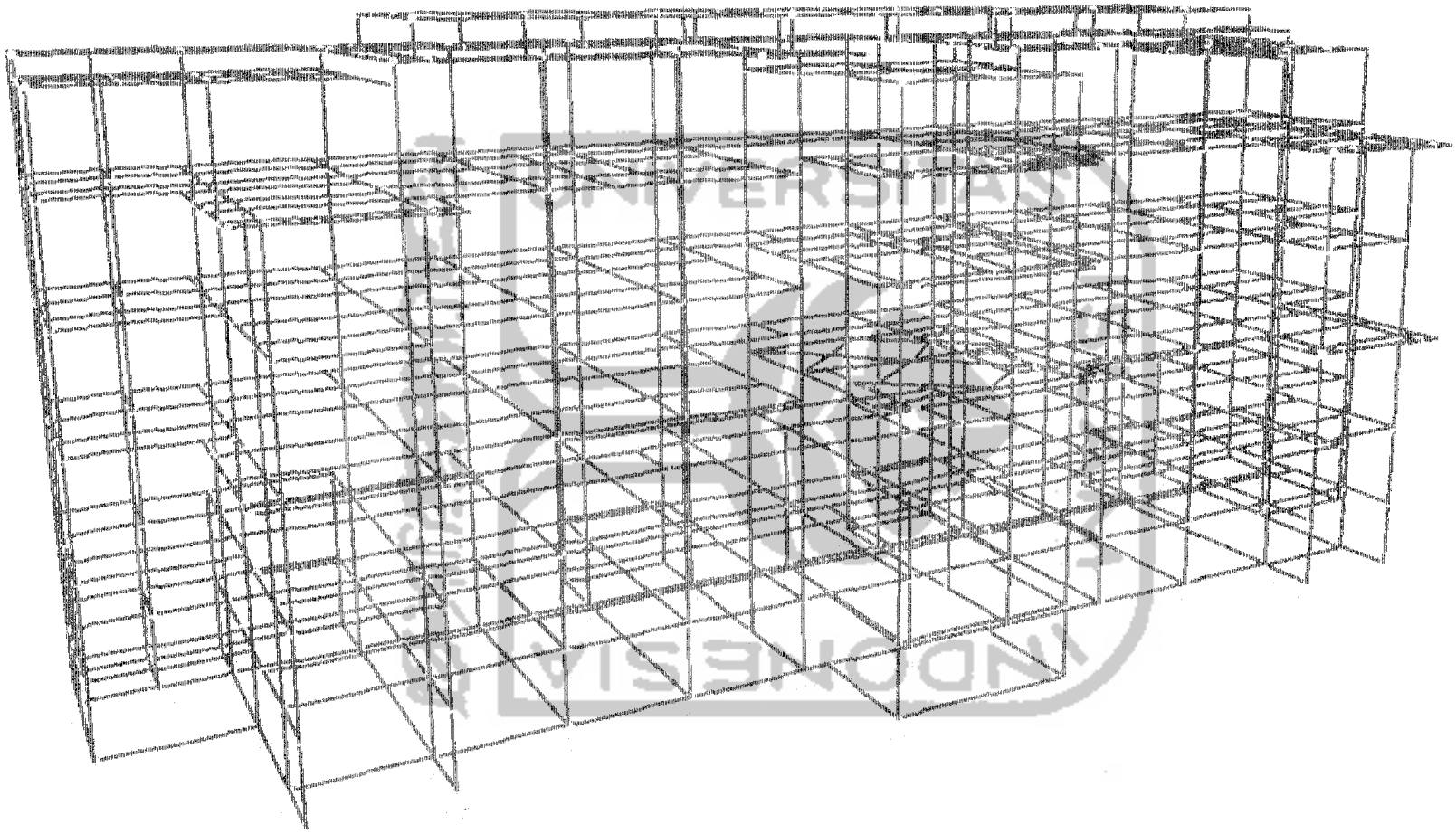
FLEXURAL AND SHEAR DESIGN OF BEAM-TYPE ELEMENTS

ELEM ID	SECTION ID	STATION ID	REQUIRED REINFORCING TOP	COMBO	BOTTOM	COMBO	SHEAR	COMBO
1	TG45X25	0,000	581,301	DCON1	330,647	DCON1	0,000	DCON2
1	TG40X25	2075,317	164,337	DCON1	164,337	DCON1	0,000	DCON2
1	TG45X25	4150,635	133,566	DCON1	76,573	DCON1	0,000	DCON1
2	TG45X25	0,000	568,818	DCON1	310,741	DCON1	0,000	DCON2
2	TG45X25	2075,317	154,500	DCON1	154,500	DCON1	0,000	DCON2
2	TG45X25	4150,635	177,101	DCON1	88,269	DCON1	0,000	DCON2
3	TG45X25	0,000	568,818	DCON1	310,741	DCON1	0,000	DCON2
3	TG45X25	2075,317	154,500	DCON1	154,500	DCON1	0,000	DCON2
3	TG45X25	4150,635	177,101	DCON1	88,269	DCON1	0,000	DCON2
4	TG45X25	0,000	581,301	DCON2	330,647	DCON1	0,000	DCON2
4	TG45X25	2075,317	164,337	DCON1	164,337	DCON1	0,000	DCON2
4	TG45X25	4150,635	133,566	DCON1	76,573	DCON1	0,000	DCON2
5	BBR25X25	0,000	25,079	DCON1	10,584	DCON1	0,849	DCON2
5	BBR25X25	100,000	19,876	DCON1	6,262	DCON1	0,841	DCON2
5	BBR25X25	200,000	15,928	DCON1	6,262	DCON1	0,833	DCON2
5	BBR25X25	300,000	11,435	DCON1	6,262	DCON1	0,293	DCON2
5	BBR25X25	400,000	11,081	DCON2	5,909	DCON2	0,287	DCON2

5	BBR15X25	0,000	49,550	DCON1	24,936	DCON1	0,480	DCON2
5	BBR20X25	100,000	38,574	DCON1	18,908	DCON1	0,476	DCON2
6	BBR20X25	200,000	28,866	DCON1	13,905	DCON1	0,469	DCON2
6	BBR25X25	300,000	21,121	DCON1	10,369	DCON1	0,464	DCON2
6	BBR25X25	400,000	15,837	DCON1	8,516	DCON1	0,456	DCON2
7	BBR15X25	0,000	60,487	DCON1	30,165	DCON1	0,568	DCON2
7	BBR25X25	115,625	47,764	DCON1	25,078	DCON1	0,544	DCON2
7	BBR25X25	231,250	37,955	DCON1	19,978	DCON1	0,535	DCON2
7	BBR25X25	346,875	29,976	DCON1	16,079	DCON1	0,531	DCON2
7	BBR25X25	462,500	0,000	DCON2	0,784	DCON2	0,525	DCON2
8	BBR15X25	0,000	40,998	DCON1	20,469	DCON1	0,550	DCON2
8	BBR20X25	115,625	32,808	DCON1	16,394	DCON1	0,748	DCON2
8	BBR25X25	231,250	27,638	DCON1	13,824	DCON1	0,500	DCON2
8	BBR25X25	346,875	22,273	DCON1	10,228	DCON1	0,459	DCON2
8	BBR25X25	462,500	37,780	DCON1	18,867	DCON1	0,527	DCON2
9	BBR15X25	0,000	33,413	DCON1	16,686	DCON1	0,256	DCON2
9	BBR20X25	115,625	32,240	DCON1	8,415	DCON1	0,250	DCON2
9	BBR25X25	231,250	31,908	DCON1	8,415	DCON1	0,543	DCON2
9	BBR25X25	346,875	32,387	DCON1	8,415	DCON1	0,241	DCON1
9	BBR25X25	462,500	33,413	DCON1	16,686	DCON1	0,248	DCON1
10	BBR15X25	0,000	33,456	DCON1	11,719	DCON1	0,177	DCON1
10	BBR20X25	115,625	22,717	DCON1	5,867	DCON1	0,170	DCON1
10	BBR25X25	225,000	21,804	DCON1	5,867	DCON1	0,165	DCON2
10	BBR25X25	337,500	22,217	DCON1	5,867	DCON1	0,170	DCON1
10	BBR25X25	450,000	23,456	DCON1	11,719	DCON1	0,177	DCON1
11	BBR15X25	0,000	33,710	DCON1	16,838	DCON1	0,248	DCON1
11	BBR20X25	112,500	32,397	DCON1	8,415	DCON1	0,241	DCON1
11	BBR25X25	225,000	31,905	DCON1	8,415	DCON1	0,243	DCON2
11	BBR25X25	337,500	32,347	DCON1	8,415	DCON1	0,250	DCON2
11	BBR25X25	450,000	33,419	DCON1	16,686	DCON1	0,256	DCON2
12	BBR15X25	0,000	37,780	DCON1	18,867	DCON1	0,527	DCON2
12	BBR20X25	115,625	37,272	DCON1	10,328	DCON1	0,333	DCON2
12	BBR25X25	231,250	37,630	DCON1	10,228	DCON1	0,336	DCON2
12	BBR25X25	346,875	38,079	DCON1	10,228	DCON1	0,346	DCON2
12	BBR25X25	462,500	40,993	DCON1	20,469	DCON1	0,352	DCON2
13	BBR15X25	0,000	0,000	DCON2	6,796	DCON2	0,526	DCON2
13	BBR20X25	115,625	10,078	DCON1	15,078	DCON1	0,531	DCON2
13	BBR25X25	231,250	25,955	DCON1	15,078	DCON1	0,536	DCON2
13	BBR25X25	346,875	42,764	DCON1	15,078	DCON1	0,544	DCON2
13	BBR25X25	462,500	60,487	DCON1	30,165	DCON1	0,550	DCON2
14	BBR15X25	0,000	13,007	DCON1	6,516	DCON1	0,458	DCON2
14	BBR20X25	100,000	24,121	DCON1	12,308	DCON1	0,464	DCON2
14	BBR25X25	200,000	39,866	DCON1	12,308	DCON1	0,462	DCON2
14	BBR25X25	300,000	39,274	DCON1	12,308	DCON1	0,475	DCON2
14	BBR25X25	400,000	49,350	DCON1	24,636	DCON1	0,480	DCON2
15	BBR15X25	0,000	11,081	DCON2	5,539	DCON2	0,327	DCON2
15	BBR20X25	100,000	11,435	DCON1	6,156	DCON1	0,233	DCON2
15	BBR25X25	200,000	15,338	DCON1	6,352	DCON1	0,238	DCON2
15	BBR25X25	300,000	18,876	DCON1	6,252	DCON1	0,244	DCON2
15	BBR25X25	400,000	20,079	DCON1	10,529	DCON1	0,249	DCON2
16	TG40X25	0,000	432,052	DCON1	214,121	DCON1	1,044	DCON2
16	TG40X25	444,500	385,736	DCON1	106,597	DCON1	0,841	DCON2
16	TG40X25	889,000	141,230	DCON1	106,597	DCON1	0,839	DCON2
16	TG40X25	1333,500	106,597	DCON1	106,597	DCON1	0,736	DCON2
16	TG40X25	1778,000	15,048	DCON1	8,523	DCON1	0,634	DCON2
17	TG40X25	0,000	451,790	DCON1	223,806	DCON1	1,068	DCON2
17	TG40X25	177,800	376,500	DCON1	111,396	DCON1	1,027	DCON2
17	TG40X25	355,600	308,113	DCON1	111,396	DCON1	0,986	DCON2
17	TG40X25	533,400	246,503	DCON1	111,396	DCON1	0,945	DCON2
17	TG40X25	711,200	181,568	DCON1	111,396	DCON1	0,904	DCON2
17	TG40X25	889,000	143,220	DCON1	111,396	DCON1	0,862	DCON2
17	TG40X25	1066,800	111,396	DCON1	111,396	DCON1	0,820	DCON2
17	TG40X25	1244,600	111,396	DCON1	111,396	DCON1	0,781	DCON2
17	TG40X25	1422,400	111,396	DCON1	111,396	DCON1	0,740	DCON2
17	TG40X25	1600,200	111,396	DCON1	111,396	DCON1	0,699	DCON2
17	TG40X25	1778,000	0,000	DCON2	2,658	DCON1	0,658	DCON2
18	TG40X25	0,000	443,104	DCON1	219,549	DCON1	1,085	DCON2
18	TG40X25	444,500	265,964	DCON1	109,286	DCON1	0,893	DCON2
18	TG40X25	889,000	130,899	DCON1	109,286	DCON1	0,890	DCON2
18	TG40X25	1333,500	109,286	DCON1	109,286	DCON1	0,786	DCON2
18	TG40X25	1778,000	0,000	DCON2	16,071	DCON1	0,683	DCON2

19	TG50X25	0,000	257,634	DCON1	106,390	DCON1	0,707	DCON1
19	TG50X25	444,500	133,711	DCON2	64,065	DCON1	0,600	DCON1
19	TG50X25	889,000	64,065	DCON1	64,065	DCON1	0,492	DCON1
19	TG50X25	1778,000	64,065	DCON1	64,065	DCON1	0,384	DCON1
19	TG50X25	1778,000	50,065	DCON1	26,521	DCON1	0,472	DCON1
20	TG45X25	0,000	566,716	DCON1	278,966	DCON1	1,303	DCON2
20	TG45X25	444,500	340,960	DCON1	106,784	DCON1	1,186	DCON2
20	TG45X25	889,000	17,056	DCON1	130,784	DCON1	1,070	DCON2
20	TG45X25	1333,500	130,784	DCON1	138,784	DCON1	0,953	DCON2
20	TG45X25	1778,000	0,000	DCON2	18,694	DCON1	0,837	DCON2
21	TG45X25	0,000	566,810	DCON1	736,316	DCON1	1,026	DCON2
21	TG45X25	444,500	378,268	DCON1	147,367	DCON1	1,170	DCON2
21	TG45X25	889,000	189,641	DCON1	147,367	DCON1	1,053	DCON2
21	TG45X25	1333,500	147,367	DCON1	147,367	DCON1	0,937	DCON2
21	TG45X25	1778,000	0,000	DCON2	13,546	DCON1	0,820	DCON2
22	TG45X25	0,000	566,810	DCON1	736,316	DCON1	1,026	DCON2
22	TG45X25	444,500	378,268	DCON1	147,367	DCON1	1,170	DCON2
22	TG45X25	889,000	189,641	DCON1	147,367	DCON1	1,053	DCON2
22	TG45X25	1333,500	147,367	DCON1	147,367	DCON1	0,937	DCON2
22	TG45X25	1778,000	0,000	DCON2	13,546	DCON1	0,820	DCON2
23	TG45X25	0,000	563,716	DCON1	278,966	DCON1	1,303	DCON2
23	TG45X25	444,500	340,960	DCON1	130,784	DCON1	1,186	DCON2
23	TG45X25	889,000	172,258	DCON1	138,784	DCON1	1,070	DCON2
23	TG45X25	1333,500	138,784	DCON1	138,784	DCON1	0,953	DCON2
23	TG45X25	1778,000	0,000	DCON2	30,634	DCON1	0,837	DCON2
24	TG50X25	0,000	257,634	DCON1	106,390	DCON1	0,707	DCON1
24	TG50X25	444,500	133,711	DCON2	64,065	DCON1	0,600	DCON1
24	TG50X25	889,000	64,065	DCON1	64,065	DCON1	0,492	DCON1
24	TG50X25	1333,500	64,065	DCON1	64,065	DCON1	0,384	DCON1
24	TG50X25	1778,000	50,065	DCON1	26,521	DCON1	0,472	DCON1
25	TG40X25	0,000	443,104	DCON1	219,548	DCON1	1,095	DCON2
25	TG40X25	444,500	265,864	DCON1	109,286	DCON1	0,993	DCON2
25	TG40X25	889,000	130,699	DCON1	109,286	DCON1	0,890	DCON2
25	TG40X25	1333,500	109,286	DCON1	109,286	DCON1	0,788	DCON2
25	TG40X25	1778,000	0,000	DCON2	18,071	DCON1	0,685	DCON2
26	TG40X25	0,000	451,780	DCON1	223,806	DCON1	1,068	DCON2
26	TG40X25	177,800	376,500	DCON1	111,398	DCON1	1,027	DCON2
26	TG40X25	355,600	309,113	DCON1	111,396	DCON1	0,986	DCON2
26	TG40X25	533,400	248,503	DCON1	111,396	DCON1	0,945	DCON2
26	TG40X25	711,200	191,500	DCON1	111,396	DCON1	0,904	DCON2
26	TG40X25	889,000	140,220	DCON1	111,396	DCON1	0,863	DCON2
26	TG40X25	1066,800	111,396	DCON1	111,396	DCON1	0,822	DCON2
26	TG40X25	1244,600	111,396	DCON1	111,396	DCON1	0,781	DCON2
26	TG40X25	1422,400	111,396	DCON1	111,396	DCON1	0,740	DCON2
26	TG40X25	1600,200	111,396	DCON1	111,396	DCON1	0,699	DCON2
26	TG40X25	1778,000	0,000	DCON2	2,053	DCON1	0,658	DCON2
27	TG40X25	0,000	413,052	DCON1	214,124	DCON1	1,044	DCON2
27	TG40X25	444,500	345,736	DCON1	106,597	DCON1	0,941	DCON2
27	TG40X25	889,000	141,268	DCON1	106,597	DCON1	0,839	DCON2
27	TG40X25	1333,500	106,597	DCON1	106,597	DCON1	0,736	DCON2
27	TG40X25	1778,000	10,049	DCON1	6,523	DCON1	0,634	DCON2
28	BBR25X25	0,000	0,000	DCON2	67,509	DCON1	0,722	DCON2
28	BBR25X25	100,000	16,802	DCON1	46,193	DCON1	0,727	DCON2
28	BBR25X25	200,000	16,822	DCON1	28,270	DCON1	0,703	DCON2
28	BBR25X25	300,000	16,822	DCON1	16,822	DCON1	0,735	DCON2
28	BBR25X25	400,000	13,393	DCON1	6,893	DCON1	0,744	DCON2
29	BBR25X25	0,000	0,000	DCON2	60,106	DCON1	1,019	DCON2
29	BBR25X25	100,000	22,069	DCON1	33,881	DCON1	1,304	DCON2
29	BBR25X25	200,000	22,069	DCON1	22,069	DCON1	1,930	DCON2
29	BBR25X25	300,000	50,330	DCON1	22,069	DCON1	1,836	DCON2
29	BBR25X25	400,000	86,654	DCON1	44,200	DCON1	1,541	DCON2
30	BBR25X25	0,000	50,383	DCON1	25,151	DCON1	0,440	DCON2
30	BBR25X25	115,625	55,023	DCON1	18,490	DCON1	0,449	DCON2
30	BBR25X25	231,250	60,542	DCON1	18,490	DCON1	0,455	DCON2
30	BBR25X25	346,875	66,948	DCON1	18,490	DCON1	0,462	DCON2
30	BBR25X25	462,500	74,227	DCON1	37,035	DCON1	0,456	DCON2
31	BBR25X25	0,000	28,089	DCON1	14,032	DCON1	1,575	DCON2
31	BBR25X25	115,625	25,483	DCON1	55,592	DCON1	1,581	DCON2
31	BBR25X25	231,250	124,054	DCON1	55,592	DCON1	1,588	DCON2
31	BBR25X25	346,875	173,824	DCON1	85,592	DCON1	1,594	DCON2

31	BBR30X10	460,800	208,818	DCON1	111,586	DCON1	1,871	DCON2	
32	BBR15X30	0,000	56,184	DCON1	40,630	DCON1	0,691	DCON2	
33	BBR30X30	112,500	56,561	DCON1	43,381	DCON1	0,734	DCON2	
34	BBR30X30	285,000	43,813	DCON1	33,681	DCON1	0,788	DCON2	
35	BBR15X35	337,500	21,801	DCON1	23,731	DCON1	0,761	DCON2	
36	BBR30X35	450,000	0,000	DCON2	9,504	DCON2	0,715	DCON2	
37	BBR30X35	0,000	0,000	DCON1	64,847	DCON2	0,118	DCON1	
38	BBR15X40	112,500	4,104	DCON2	28,478	DCON1	0,111	DCON1	
39	BBR30X40	285,000	9,129	DCON2	33,487	DCON1	0,115	DCON2	
40	BBR30X40	337,500	4,109	DCON2	23,731	DCON1	0,121	DCON1	
41	BBR30X40	450,000	0,000	DCON2	14,947	DCON2	0,138	DCON1	
42	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
43	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
44	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
45	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
46	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
47	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
48	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
49	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
50	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
51	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
52	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
53	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
54	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
55	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
56	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
57	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
58	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
59	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
60	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
61	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
62	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
63	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
64	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
65	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
66	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
67	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
68	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
69	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
70	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
71	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
72	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
73	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
74	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
75	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
76	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
77	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
78	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
79	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
80	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
81	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
82	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
83	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
84	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
85	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
86	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
87	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
88	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
89	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
90	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
91	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
92	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
93	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
94	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
95	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
96	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
97	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
98	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
99	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
100	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
101	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
102	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
103	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
104	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
105	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
106	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
107	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
108	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
109	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
110	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
111	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
112	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
113	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
114	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
115	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
116	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
117	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
118	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
119	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
120	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
121	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
122	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
123	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
124	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
125	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
126	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
127	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
128	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
129	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
130	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
131	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
132	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
133	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
134	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
135	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
136	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
137	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
138	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
139	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
140	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
141	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
142	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
143	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
144	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
145	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
146	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
147	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
148	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
149	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
150	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
151	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
152	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
153	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
154	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
155	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
156	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
157	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
158	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
159	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
160	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
161	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
162	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
163	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
164	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
165	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
166	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
167	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
168	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
169	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
170	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
171	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
172	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
173	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
174	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
175	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
176	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
177	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
178	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
179	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
180	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
181	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
182	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
183	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
184	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
185	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
186	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
187	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
188	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
189	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
190	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
191	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
192	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
193	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
194	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
195	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
196	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
197	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
198	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
199	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
200	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
201	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
202	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
203	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
204	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
205	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
206	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
207	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
208	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
209	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
210	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
211	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
212	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
213	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
214	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
215	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
216	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
217	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
218	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
219	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
220	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
221	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
222	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
223	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
224	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
225	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
226	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
227	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
228	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
229	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
230	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
231	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
232	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
233	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
234	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
235	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
236	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
237	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
238	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
239	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
240	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
241	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
242	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
243	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
244	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
245	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
246	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
247	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
248	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
249	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
250	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
251	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
252	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
253	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
254	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
255	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
256	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
257	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
258	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
259	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
260	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
261	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
262	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
263	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
264	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
265	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
266	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
267	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
268	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
269	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
270	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
271	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
272	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
273	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
274	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
275	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
276	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
277	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
278	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
279	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
280	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
281	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
282	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
283	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
284	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
285	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
286	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
287	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
288	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
289	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
290	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
291	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
292	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
293	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
294	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
295	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
296	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
297	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
298	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
299	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
300	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
301	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
302	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
303	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
304	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
305	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DCON2	
306	BBR25X25	450,000	54,194	DCON1	47,947	DCON1	0,801	DCON2	
307	BBR20X25	0,000	1,000	DCON2	9,504	DCON2	0,775	DCON1	
308	BBR15X25	112,500	27,511	DCON2	27,007	DCON1	0,782	DCON2	
309	BBR25X25	225,000	48,613	DCON1	33,681	DCON1	0,788	DCON2	
310	BBR25X25	337,500	54,291	DCON1	25,631	DCON1	0,794	DC



Soneri A ama
Kampus D3 Ekonomi UII

M A T E R I A L P R O P E R T Y D A T A

MAT LABEL	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	WEIGHT PER UNIT VOL	MASS PER UNIT VOL
CONC	35742,360	0,200	9,900E-06	2,356E-05	2,401E-05

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M A T E R I A L D E S I G N D A T A

MAT LABEL	DESIGN CODE	STEEL FY	CONCRETE FC	REBAR FY	CONCRETE FCS	REBAR FYS
CONC	C		30,000	390,000	30,000	240,000

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C O N C R E T E C O L U M N P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	COLUMN DEPTH	COLUMN WIDTH	REBAR PATTERN	CONCRETE COVER	BAR AREA
K50X45	CONC	450,000	500,000	RB-7-6	63,000	0,000
K?20	CONC	700,000	700,000	CC-16	50,000	0,000
K?45X45	CONC	450,000	450,000	RB-5-5	61,500	0,000
K?30X30	CONC	300,000	300,000	RB-4-4	51,500	0,000
K?25X25	CONC	250,000	250,000	RB-3-3	40,000	0,000
K?0X60	CONC	600,000	600,000	RB-8-7	64,500	0,000
K60X70	CONC	700,000	600,000	RB-7-8	64,500	0,000
K?50X50	CONC	500,000	500,000	RB-6-6	64,500	0,000
K30X25	CONC	250,000	300,000	RB-4-3	51,500	0,000
K?30X50	CONC	500,000	300,000	RB-4-6	64,500	0,000

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Kampus D3 Ekonomi UII

C O N C R E T E B E A M P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	BEAM DEPTH	BEAM WIDTH	TOP COVER	BOTTOM COVER	REBAR AT-1	REBAR AT-2	REBAR AB-1	REBAR AB-2
B?30X50	CONC	500,000	300,000	51,000	51,000	0,000	0,000	0,000	0,000
T?5X40	CONC	400,000	1125,000	76,500	76,500	0,000	0,000	0,000	0,000
B25X40	CONC	400,000	350,000	48,000	48,000	0,000	0,000	0,000	0,000
B15X20	CONC	200,000	150,000	30,000	30,000	0,000	0,000	0,000	0,000
T40X80	CONC	800,000	750,000	30,000	30,000	0,000	0,000	0,000	0,000
B145X70	CONC	700,000	450,000	64,500	64,500	0,000	0,000	0,000	0,000
B50X70	CONC	700,000	500,000	64,500	64,500	0,000	0,000	0,000	0,000
B60X80	CONC	800,000	600,000	64,500	64,500	0,000	0,000	0,000	0,000
B100X90	CONC	900,000	900,000	46,000	46,000	0,000	0,000	0,000	0,000
B45X65	CONC	650,000	450,000	64,500	54,500	0,000	0,000	0,000	0,000
B45X50	CONC	500,000	450,000	40,000	40,000	0,000	0,000	0,000	0,000
B30X50	CONC	500,000	300,000	57,000	50,000	0,000	0,000	0,000	0,000
B20X50	CONC	500,000	200,000	48,000	48,000	0,000	0,000	0,000	0,000
B40X30	CONC	300,000	300,000	48,000	40,000	0,000	0,000	0,000	0,000

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Kampus D3 Ekonomi UII

L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TYPE
BM	ADD				BM
		LDM1	1,0000	STATIC(DEAD)	
		LDM4	1,0000	STATIC(DEAD)	
		LD	1,0000	STATIC(DEAD)	
DCONC	ADD				DCONC
		LDM1	1,2000	STATIC(DEAD)	

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                    LDKI      1,2000   STATIC (DEAD)
                      LD      1,2000   STATIC (DEAD)
                    LLKA      1,6000   STATIC (LIVE)
                    LLKI      1,6000   STATIC (LIVE)
                      LL      1,6000   STATIC (LIVE)

D00N3       ADD                                     D00N3
                    LDKI      1,0500   STATIC (DEAD)
                    LDKA      1,0500   STATIC (DEAD)
                      LD      1,0500   STATIC (DEAD)
                    LLKA      0,9450   STATIC (LIVE)
                    LLKI      0,9450   STATIC (LIVE)
                      LL      0,9450   STATIC (LIVE)
                     LEX      1,0500   STATIC (QUAKE)

D00N4       ADD                                     D00N4
                    LDKI      1,0500   STATIC (DEAD)
                    LDKA      1,0500   STATIC (DEAD)
                      LD      1,0500   STATIC (DEAD)
                    LLKA      0,9450   STATIC (LIVE)
                    LLKI      0,9450   STATIC (LIVE)
                      LL      0,9450   STATIC (LIVE)
                     LEX      1,0500   STATIC (QUAKE)

D00N5       ADD                                     D00N5
                    LDKI      1,0500   STATIC (DEAD)
                    LDKA      1,0500   STATIC (DEAD)
                      LD      1,0500   STATIC (DEAD)
                    LLKA      0,9450   STATIC (LIVE)
                    LLKI      0,9450   STATIC (LIVE)
                      LL      0,9450   STATIC (LIVE)
                     LEX      1,0500   STATIC (QUAKE)

D00N6       ADD                                     D00N6
                    LDKI      1,0500   STATIC (DEAD)
                    LDKA      1,0500   STATIC (DEAD)
                      LD      1,0500   STATIC (DEAD)
                    LLKA      0,9450   STATIC (LIVE)
                    LLKI      0,9450   STATIC (LIVE)
                      LL      0,9450   STATIC (LIVE)
                     LEX     -1,0500   STATIC (QUAKE)

D00N7       ADD                                     D00N7
                    LDKI      0,9000   STATIC (DEAD)
                    LDKA      0,9000   STATIC (DEAD)
                      LD      0,9000   STATIC (DEAD)
                     LEX      1,0500   STATIC (QUAKE)

D00N8       ADD                                     D00N8
                    LDKI      0,9000   STATIC (DEAD)
                    LDKA      0,9000   STATIC (DEAD)
                      LD      0,9000   STATIC (DEAD)
                     LEX     -1,0500   STATIC (QUAKE)

D00N9       ADD                                     D00N9
                    LDKI      0,9000   STATIC (DEAD)
                    LDKA      0,9000   STATIC (DEAD)
                      LD      0,9000   STATIC (DEAD)
                     LEX      1,0500   STATIC (QUAKE)

D00N10      ADD                                     D00N10
                    LDKI      0,9000   STATIC (DEAD)
                    LDKA      0,9000   STATIC (DEAD)
                      LD      0,9000   STATIC (DEAD)
                     LEX     -1,0500   STATIC (QUAKE)

BH          ADD                                     BH
                    LLKA      1,0000   STATIC (LIVE)
                    LLKI      1,0000   STATIC (LIVE)
                      LL      1,0000   STATIC (LIVE)

D00N1       ADD                                     D00N1
                    LDKI      1,4000   STATIC (DEAD)
                    LDKA      1,4000   STATIC (DEAD)
                      LD      1,4000   STATIC (DEAD)


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Mahasiswa FTS Ekonomi UII

C O D E   P R E F E R E N C E S

Code: ACI 318-99

  Phi_bending              : 0,8
  Phi_tension              : 0,8
  Phi_compression(Tied)    : 0,65
  Phi_compression(Spiral)  : 0,7
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C O N C R E T E D E S I G N P A R A M E T E R I N F O R M A T I O N (ACI 318-99)

FRAME ID	SECTION ID	ELEMENT TYPE	FRAMING TYPE	SDFF FACTOR	L_EFF/r MAJOR	L_EFF/r MINOR	R MAJOR	R MINOR
1B1	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
1B2	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
1B3	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
1B4	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
1B5	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
1B6	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
1B7	B1	BEAM	SWAYSPEC	1,000	0,894	0,894		
1B8	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
1B9	B1	BEAM	SWAYSPEC	1,000	1,150	0,936		
1C1	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
1C2	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
1C3	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
1C4	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
1C5	B2	BEAM	SWAYSPEC	1,000	0,855	0,855		
1C6	B2	BEAM	SWAYSPEC	1,000	0,891	0,891		
1C7	B2	BEAM	SWAYSPEC	1,000	0,855	0,855		
1C8	B2	BEAM	SWAYSPEC	1,000	0,844	0,844		
1C9	B2	BEAM	SWAYSPEC	1,000	0,855	0,855		
2A1	B14	BEAM	SWAYSPEC	1,000	1,500	0,917		
2A2	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
2A3	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
2A4	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
2A5	B14	BEAM	SWAYSPEC	1,000	1,680	0,917		
2A6	B14	BEAM	SWAYSPEC	1,000	0,825	0,825		
2A7	B14	BEAM	SWAYSPEC	1,000	1,288	0,917		
2A8	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
2A9	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
2B1	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
2B2	B1	BEAM	SWAYSPEC	1,000	0,855	0,855		
2B3	B1	BEAM	SWAYSPEC	1,000	0,855	0,855		
2B4	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
2B5	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
2B6	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
2B7	B1	BEAM	SWAYSPEC	1,000	0,894	0,894		
2B8	B1	BEAM	SWAYSPEC	1,000	4,025	0,750		
2B9	B1	BEAM	SWAYSPEC	1,000	1,150	0,936		
2C1	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
2C2	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
2C3	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
2C4	B2	BEAM	SWAYSPEC	1,000	0,840	0,840		
2C5	B2	BEAM	SWAYSPEC	1,000	1,000	1,000		
2C6	B2	BEAM	SWAYSPEC	1,000	1,000	1,000		
2C7	B2	BEAM	SWAYSPEC	1,000	1,000	1,000		
2C8	B2	BEAM	SWAYSPEC	1,000	1,000	1,000		
2C9	B2	BEAM	SWAYSPEC	1,000	1,000	1,000		
3A1	B14	BEAM	SWAYSPEC	1,000	1,500	0,917		
3A2	B14	BEAM	SWAYSPEC	1,000	0,917	0,917		
3A3	B14	BEAM	SWAYSPEC	1,000	0,917	0,917		
3A4	B14	BEAM	SWAYSPEC	1,000	0,917	0,917		
3A5	B14	BEAM	SWAYSPEC	1,000	1,288	0,917		
3A6	B14	BEAM	SWAYSPEC	1,000	0,825	0,825		
3A7	B14	BEAM	SWAYSPEC	1,000	1,288	0,917		
3A8	B14	BEAM	SWAYSPEC	1,000	0,917	0,917		
3A9	B14	BEAM	SWAYSPEC	1,000	0,917	0,917		
3B1	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
3B2	B1	BEAM	SWAYSPEC	1,000	0,936	0,936		
3B3	B1	BEAM	SWAYSPEC	1,000	0,855	0,855		
3B4	B1	BEAM	SWAYSPEC	1,000	0,855	0,855		
3B5	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
3B6	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
3B7	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
3B8	B1	BEAM	SWAYSPEC	1,000	0,900	0,900		
3B9	B1	BEAM	SWAYSPEC	1,000	0,894	0,894		
3E1	B15	BEAM	SWAYSPEC	1,000	1,000	1,000		
3E2	B15	BEAM	SWAYSPEC	1,000	1,000	1,000		
4A1	B14	BEAM	SWAYSPEC	1,000	1,500	0,917		
4A2	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
4A3	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
4A4	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
4A5	B14	BEAM	SWAYSPEC	1,000	1,288	0,917		
4A6	B14	BEAM	SWAYSPEC	1,000	1,288	0,917		
4A7	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
4A8	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
4A9	B14	BEAM	SWAYSPEC	1,000	3,167	0,917		
4B1	B3	BEAM	SWAYSPEC	1,000	0,936	0,936		
4B2	B3	BEAM	SWAYSPEC	1,000	0,936	0,936		
4B3	B3	BEAM	SWAYSPEC	1,000	0,840	0,840		
4B4	B3	BEAM	SWAYSPEC	1,000	0,840	0,840		

4B5	B30X50	BEAM	SW7SPEC	1.000	0.840	0.840
4B6	B30X50	BEAM	SW7SPEC	1.000	0.840	0.840
4B7	BI30X50	BEAM	SW10ORIN	1.000	0.775	0.775
4B8	BI30X50	BEAM	SW7SPEC	1.000	0.936	0.936
4B9	BI30X50	BEAM	SW7SPEC	1.000	0.900	0.900
4D1	B20X60	BEAM	SW7SPEC	1.000	1.000	1.000
4D2	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D3	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D4	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D5	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D6	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D7	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D8	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4D9	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
4F1	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F2	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F3	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F4	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F5	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F6	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F7	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F8	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
4F9	B20X30	BEAM	SW7SPEC	1.000	0.813	0.813
5A1	BI45X70	BEAM	SW7SPEC	1.000	1.000	0.917
5A2	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
5A3	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
5A4	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
5A5	BI45X70	BEAM	SW7SPEC	1.000	1.283	0.917
5A6	BI45X70	BEAM	SW7SPEC	1.000	1.283	0.917
5A7	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
5A8	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
5A9	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
5B1	BI30X50	BEAM	SW7SPEC	1.000	0.936	0.936
5B2	BI30X50	BEAM	SW7SPEC	1.000	0.936	0.936
5B3	BI30X50	BEAM	SW7SPEC	1.000	0.840	0.840
5B4	BI30X50	BEAM	SW7SPEC	1.000	0.840	0.840
5B5	BI30X50	BEAM	SW7SPEC	1.000	0.840	0.840
5B6	BI30X50	BEAM	SW7SPEC	1.000	0.840	0.840
5B7	BI30X50	BEAM	SW7SPEC	1.000	0.900	0.900
5B8	BI30X50	BEAM	SW7SPEC	1.000	0.900	0.900
5B9	BI30X50	BEAM	SW7SPEC	1.000	0.884	0.884
5C1	B25X40	BEAM	SW7SPEC	1.000	0.900	0.900
5C2	B25X40	BEAM	SW7SPEC	1.000	0.900	0.900
5C3	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5C4	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5C5	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5C6	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5C7	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5C8	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5C9	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
5D1	B20X60	BEAM	SW7SPEC	1.000	0.900	0.900
5D2	B20X60	BEAM	SW7SPEC	1.000	0.950	0.950
5D3	B20X60	BEAM	SW7SPEC	1.000	1.000	1.000
5D4	B20X50	BEAM	SW7SPEC	1.000	1.000	1.000
5D5	B20X50	BEAM	SW7SPEC	1.000	0.972	0.972
5D6	B20X50	BEAM	SW7SPEC	1.000	0.944	0.944
5D7	B20X50	BEAM	SW7SPEC	1.000	0.972	0.972
5D8	B20X50	BEAM	SW7SPEC	1.000	0.944	0.944
5D9	B20X50	BEAM	SW7SPEC	1.000	0.944	0.944
5F1	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
5F2	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
5F3	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
5F4	B20X30	BEAM	SW7SPEC	1.000	1.000	1.000
6A1	BI45X70	BEAM	SW7SPEC	1.000	3.250	0.875
6A2	BI45X70	BEAM	SW7SPEC	1.000	4.750	0.875
6A3	BI45X70	BEAM	SW7SPEC	1.000	4.750	0.875
6A4	BI45X70	BEAM	SW7SPEC	1.000	2.250	0.875
6A5	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
6A6	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
6A7	BI45X70	BEAM	SW7SPEC	1.000	1.283	0.917
6A8	BI45X70	BEAM	SW7SPEC	1.000	1.283	0.917
6A9	BI45X70	BEAM	SW7SPEC	1.000	3.167	0.917
6B1	BI30X50	BEAM	SW7SPEC	1.000	0.900	0.900
6B2	BI30X50	BEAM	SW7SPEC	1.000	0.933	0.933
6B3	B30X50	BEAM	SW7SPEC	1.000	0.840	0.840
6B4	B30X50	BEAM	SW7SPEC	1.000	0.840	0.840
6B5	B30X50	BEAM	SW7SPEC	1.000	0.840	0.840
6B6	B30X50	BEAM	SW7SPEC	1.000	0.840	0.840
6B7	BI30X50	BEAM	SW10ORIN	1.000	0.775	0.775
6B8	BI30X50	BEAM	SW7SPEC	1.000	0.936	0.936
6B9	BI30X50	BEAM	SW7SPEC	1.000	0.900	0.900
6C1	B25X40	BEAM	SW7SPEC	1.000	0.900	0.900
6C2	B25X40	BEAM	SW7SPEC	1.000	0.900	0.900
6C3	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6C4	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6C5	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6C6	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6C7	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6C8	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6C9	B25X40	BEAM	SW7SPEC	1.000	1.000	1.000
6D1	B20X60	BEAM	SW7SPEC	1.000	1.000	1.000

[illegible]	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
8D3	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
8D4	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
8D5	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
[illegible]	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
8D7	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
8D8	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
8D9	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
[illegible]	B15X40	BEAM	SWYSPEC	1,000	1,000	1,000
8E0	B15X40	BEAM	SWYSPEC	1,000	1,000	1,000
8E8	B15X40	BEAM	SWYSPEC	1,000	1,000	1,000
8F1	B20X30	BEAM	SWYSPEC	1,000	0,833	2,000
[illegible]	B20X30	BEAM	SWYSPEC	1,000	0,000	1,000
9B3	BI20X30	BEAM	SWYSPEC	1,000	0,833	0,833
9B4	BI20X30	BEAM	SWYSPEC	1,000	0,900	0,900
9B5	BI20X30	BEAM	SWYSPEC	1,000	0,733	0,733
9B6	BI20X30	BEAM	SWYSPEC	1,000	0,733	0,733
9B7	BI20X30	BEAM	SWYSPEC	1,000	0,733	0,733
9B8	BI20X30	BEAM	SWYSPEC	1,000	0,733	0,733
9B9	BI20X30	BEAM	SWYSPEC	1,000	0,900	0,900
9D1	B20X40	BEAM	SWYSPEC	1,000	0,900	1,850
9D2	B20X50	BEAM	SWYSPEC	1,000	0,850	1,850
9D3	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
9D4	B20X50	BEAM	SWYSPEC	1,000	1,000	1,000
9D5	B20X50	BEAM	SWYSPEC	1,000	0,972	0,972
9D6	B20X50	BEAM	SWYSPEC	1,000	0,944	1,944
9D7	B20X50	BEAM	SWYSPEC	1,000	0,972	0,972
9D8	B20X50	BEAM	SWYSPEC	1,000	0,972	0,972
9D9	B20X50	BEAM	SWYSPEC	1,000	0,944	0,944
9F1	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
9F2	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
9F3	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
9F4	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
9F5	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
9F6	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
9F7	B20X30	BEAM	SWYSPEC	1,000	4,050	8,775
9F8	B20X30	BEAM	SWYSPEC	1,000	1,167	0,936
9F9	B20X30	BEAM	SWYSPEC	1,000	0,900	0,900
1B10	BI30X50	BEAM	SWYSPEC	1,000	1,180	0,986
1B11	BI30X50	BEAM	SWYSPEC	1,000	4,016	0,750
1B12	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
1B13	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B14	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B15	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B16	BI30X50	BEAM	SWYSPEC	1,000	0,905	0,905
1B17	BI30X50	BEAM	SWYSPEC	1,000	0,906	0,906
1B18	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B19	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B20	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
1B21	BI30X50	BEAM	SWYSPEC	1,000	0,950	0,950
1B22	BI30X50	BEAM	SWYSPEC	1,000	0,950	0,950
1B23	BI30X50	BEAM	SWYSPEC	1,000	0,950	0,950
1B24	BI30X50	BEAM	SWYSPEC	1,000	0,955	0,955
1B25	BI30X50	BEAM	SWYSPEC	1,000	0,950	0,950
1B26	BI30X50	BEAM	SWYSPEC	1,000	0,950	0,950
1B27	BI30X50	BEAM	SWYSPEC	1,000	0,950	0,950
1B28	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
1B29	BI30X50	BEAM	SWYSPEC	1,000	0,930	0,930
1B30	BI30X50	BEAM	SWYSPEC	1,000	0,930	0,930
1B31	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B32	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B33	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B34	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B35	BI30X50	BEAM	SWYSPEC	1,000	0,860	0,860
1B36	BI30X50	BEAM	SWYSPEC	1,000	0,860	0,860
1B37	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B38	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B39	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B40	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
1B41	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
1B42	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
1B43	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
1B44	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B45	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B46	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
1B47	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
1C10	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
1C11	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
1C12	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
1C13	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
1C14	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
1C15	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
1C16	B25X40	BEAM	SWYSPEC	1,000	0,900	0,900
1C17	B25X40	BEAM	SWYSPEC	1,000	0,900	0,900
1C18	B25X40	BEAM	SWYSPEC	1,000	0,944	0,944
1C19	B25X40	BEAM	SWYSPEC	1,000	0,944	0,944
1C20	B25X40	BEAM	SWYSPEC	1,000	0,944	0,944
1C21	B25X40	BEAM	SWYSPEC	1,000	0,944	0,944
1C22	B25X40	BEAM	SWYSPEC	1,000	0,960	0,960
2A10	BI40X70	BEAM	SWYSPEC	1,000	3,167	0,917
2A11	BI40X70	BEAM	SWYSPEC	1,000	1,500	0,917

[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,080	0,880
2A13	BI45X70	BEAM SWYSPEC	1,000	3,080	0,880
2A14	BI45X70	BEAM SWYSPEC	1,000	3,250	0,875
2A15	BI45X70	BEAM SWYSPEC	1,000	3,250	0,875
[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,375	1,000
2A17	BI45X70	BEAM SWYSPEC	1,000	3,375	1,000
2A18	BI45X70	BEAM SWYSPEC	1,000	3,375	1,000
2A19	BI45X70	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,375	1,000
2A21	BI45X70	BEAM SWYSPEC	1,000	3,375	1,000
2A22	BI45X70	BEAM SWYSPEC	1,000	3,375	1,000
2A24	BI45X70	BEAM SWYSPEC	1,000	0,945	0,945
[illegible]	BI45X70	BEAM SWYSPEC	1,000	1,850	0,875
2A26	BI45X70	BEAM SWYSPEC	1,000	0,875	0,875
2A27	BI45X70	BEAM SWYSPEC	1,000	0,875	0,875
2A28	BI45X70	BEAM SWYSPEC	1,000	1,067	1,833
[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
2A31	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
2A32	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
2A33	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
[illegible]	BI45X70	BEAM SWYSPEC	1,000	0,917	0,917
2A35	BI45X70	BEAM SWYSPEC	1,000	0,835	0,835
2A36	BI45X70	BEAM SWYSPEC	1,000	0,917	0,917
2A37	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
2A39	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
2A40	BI45X70	BEAM SWYSPEC	1,000	0,917	0,917
2A42	BI45X70	BEAM SWYSPEC	1,000	0,733	1,633
[illegible]	BI30X50	BEAM SWYSPEC	1,000	1,150	0,994
2B11	BI30X50	BEAM SWYSPEC	1,000	4,025	0,750
2B12	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
2B13	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
[illegible]	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B15	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B16	BI30X50	BEAM SWYSPEC	1,000	0,910	0,910
2B17	BI30X50	BEAM SWYSPEC	1,000	0,910	0,910
[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,250	0,875
2B19	BI45X70	BEAM SWYSPEC	1,000	1,500	0,917
2B20	BI30X50	BEAM SWYSPEC	1,000	0,860	0,860
2B21	BI30X50	BEAM SWYSPEC	1,000	0,860	0,860
[illegible]	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B23	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B24	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B25	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
[illegible]	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
2B27	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
2B28	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
2B29	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
[illegible]	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B31	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
2B32	BI30X50	BEAM SWYSPEC	1,000	0,910	0,910
2C10	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C12	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C13	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C14	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C16	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C17	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C18	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C19	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C20	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C21	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C22	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C24	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C25	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
2C26	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C28	B25X40	BEAM SWYSPEC	1,000	0,891	0,891
2C29	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C30	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
[illegible]	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C32	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C33	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C34	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
[illegible]	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C36	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C37	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
2C38	B25X40	BEAM SWYSPEC	1,000	0,900	0,900
[illegible]	B25X40	BEAM SWYSPEC	1,000	0,900	0,900
2C40	B25X40	BEAM SWYSPEC	1,000	0,944	0,944
2C41	B25X40	BEAM SWYSPEC	1,000	0,944	0,944
2C42	B25X40	BEAM SWYSPEC	1,000	0,944	0,944
[illegible]	B25X40	BEAM SWYSPEC	1,000	0,944	0,944
2C44	B25X40	BEAM SWYSPEC	1,000	0,950	0,950
3A10	BI45X70	BEAM SWYSPEC	1,000	0,917	0,917
3A11	BI45X70	BEAM SWYSPEC	1,000	1,500	0,917
[illegible]	BI45X70	BEAM SWYSPEC	1,000	3,080	0,880
3A13	BI45X70	BEAM SWYSPEC	1,000	3,080	0,880
3A14	BI45X70	BEAM SWYSPEC	1,000	1,000	1,000

3A15	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A16	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A17	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A18	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A19	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A20	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A21	BI45X70	BEAM	SWYSPEC	1,000	0,945	0,945
3A22	BI45X70	BEAM	SWYSPEC	1,000	0,945	0,945
3A23	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A24	BI45X70	BEAM	SWYSPEC	1,000	0,878	0,878
3A25	BI45X70	BEAM	SWYSPEC	1,000	0,878	0,878
3A26	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
3A27	BI45X70	BEAM	SWYSPEC	1,000	1,000	1,000
3A28	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A29	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A30	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A31	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A32	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A33	BI45X70	BEAM	SWYSPEC	1,000	0,905	0,905
3A34	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A35	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A36	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A37	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A38	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
3A39	BI45X70	BEAM	SWYSPEC	1,000	1,500	0,917
3A40	BI45X70	BEAM	SWYSPEC	1,000	0,783	1,583
3A41	BI45X70	BEAM	SWYSPEC	1,000	0,884	0,884
3A42	BI45X70	BEAM	SWYSPEC	1,000	0,884	0,884
3A43	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
3A44	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
3B10	BI30X50	BEAM	SWYSPEC	1,000	4,000	0,750
3B11	BI30X50	BEAM	SWYSPEC	1,000	1,150	0,936
3B12	BI30X50	BEAM	SWYSPEC	1,000	1,140	0,936
3B13	BI30X50	BEAM	SWYSPEC	1,000	4,000	0,750
3B14	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
3B15	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B16	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B17	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B18	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
3B19	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
3B20	BI30X50	BEAM	SWYSPEC	1,000	0,860	0,860
3B21	BI30X50	BEAM	SWYSPEC	1,000	0,860	0,860
3B22	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B23	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B24	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B25	BI30X50	BEAM	SWYSPEC	1,000	1,789	0,900
3B26	BI30X50	BEAM	SWYSPEC	1,000	1,789	0,889
3B27	BI30X50	BEAM	SWYSPEC	1,000	1,784	0,889
3B28	BI30X50	BEAM	SWYSPEC	1,000	1,786	0,900
3B29	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B30	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B31	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
3B32	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
3CX1	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX2	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX3	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX4	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX5	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX6	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX7	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX8	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CX9	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
3CY1	B25X40	BEAM	SWYSPEC	1,000	0,835	0,835
3CY2	B25X40	BEAM	SWYSPEC	1,000	0,993	0,993
3CY3	B25X40	BEAM	SWYSPEC	1,000	0,840	0,840
3CY4	B25X40	BEAM	SWYSPEC	1,000	0,840	0,840
3CY5	B25X40	BEAM	SWYSPEC	1,000	0,840	0,840
3CY6	B25X40	BEAM	SWYSPEC	1,000	0,840	0,840
3CY7	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
3CY8	B25X40	BEAM	SWYSPEC	1,000	0,851	0,851
3CY9	B25X40	BEAM	SWYSPEC	1,000	0,855	0,855
4A10	BI45X70	BEAM	SWYSPEC	1,000	1,500	0,917
4A11	BI45X70	BEAM	SWYSPEC	1,000	3,080	0,880
4A12	BI45X70	BEAM	SWYSPEC	1,000	3,080	0,880
4A13	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
4A14	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
4A17	BI45X70	BEAM	SWYSPEC	1,000	2,875	1,000
4A18	BI45X70	BEAM	SWYSPEC	1,000	2,875	1,000
4A19	BI45X70	BEAM	SWYSPEC	1,000	2,875	1,000
4A20	BI45X70	BEAM	SWYSPEC	1,000	2,875	1,000
4A21	BI45X70	BEAM	SWYSPEC	1,000	2,875	1,000
4A22	BI45X70	BEAM	SWYSPEC	1,000	2,875	1,000
4A24	BI45X70	BEAM	SWYSPEC	1,000	0,945	0,945
4A25	BI45X70	BEAM	SWYSPEC	1,000	0,945	0,945
4A26	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
4A27	BI45X70	BEAM	SWYSPEC	1,000	0,875	0,875
4A28	BI45X70	BEAM	SWYSPEC	1,000	0,875	0,875
4A29	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
4A30	BI45X70	BEAM	SWYSPEC	1,000	1,500	0,917
4A31	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
4A32	BI45X70	BEAM	SWYSPEC	1,000	3,167	0,917

4A33	B45X70	BEAM SWYSPEC	1.000	0.167	0.917
4A34	B45X70	BEAM SWYSPEC	1.000	0.167	0.917
4A35	B45X70	BEAM SWYSPEC	1.000	0.917	0.917
4A36	B45X70	BEAM SWYSPEC	1.000	0.917	0.917
4A37	B45X70	BEAM SWYSPEC	1.000	0.167	0.917
4A38	B45X70	BEAM SWYSPEC	1.000	0.167	0.917
4A39	B45X70	BEAM SWYSPEC	1.000	0.167	0.917
4A40	B45X70	BEAM SWYSPEC	1.000	0.917	0.917
4A41	B45X70	BEAM SWYSPEC	1.000	0.500	0.917
4A43	B45X70	BEAM SWYSPEC	1.000	0.900	0.700
4A45	B45X70	BEAM SWYSPEC	1.000	1.000	0.125
4A50	B45X70	BEAM SWYSPEC	1.000	1.000	0.125
4A52	B45X70	BEAM SWYSPEC	1.000	0.000	1.000
4B10	B30X50	BEAM SWYSPEC	1.000	0.894	0.894
4B11	B30X50	BEAM SWYSPEC	1.000	0.894	0.894
4B12	B30X50	BEAM SWYSPEC	1.000	0.900	0.300
4B13	B30X50	BEAM SWYSPEC	1.000	0.936	0.936
4B14	B30X50	BEAM SWYORDN	1.000	0.775	0.775
4B15	B30X50	BEAM SWYSPEC	1.000	1.188	0.944
4B16	B30X50	BEAM SWYSPEC	1.000	4.550	0.775
4B17	B30X50	BEAM SWYSPEC	1.000	4.550	0.775
4B18	B30X50	BEAM SWYSPEC	1.000	1.188	0.944
4B19	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B20	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B21	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B22	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B23	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B24	B30X50	BEAM SWYSPEC	1.000	0.894	0.894
4B25	B30X50	BEAM SWYSPEC	1.000	0.894	0.894
4B26	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B27	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B28	B30X50	BEAM SWYSPEC	1.000	0.900	0.900
4B29	B30X50	BEAM SWYSPEC	1.000	0.936	0.936
4B30	B30X50	BEAM SWYSPEC	1.000	0.936	0.936
4B31	B30X50	BEAM SWYSPEC	1.000	0.936	0.936
4B32	B30X50	BEAM SWYSPEC	1.000	0.888	0.888
4B33	B30X50	BEAM SWYSPEC	1.000	0.936	0.936
4B34	B30X50	BEAM SWYSPEC	1.000	1.000	1.000
4B35	B30X50	BEAM SWYSPEC	1.000	1.000	1.000
4B36	B30X50	BEAM SWYSPEC	1.000	1.000	1.000
4B37	B30X50	BEAM SWYSPEC	1.000	1.000	1.000
4B38	B30X50	BEAM SWYINTR	1.000	0.750	0.750
4B40	B30X50	BEAM SWYSPEC	1.000	1.000	1.000
4B41	B30X50	BEAM SWYINTR	1.000	0.750	0.750
4B42	B30X50	BEAM SWYSPEC	1.000	0.906	0.906
4B43	B30X50	BEAM SWYSPEC	1.000	0.906	0.906
4B44	B30X50	BEAM SWYSPEC	1.000	0.944	0.944
4B45	B30X50	BEAM SWYSPEC	1.000	0.944	0.944
4BK1	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK2	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK3	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK4	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK5	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK6	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK7	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK8	B30X50	BEAM SWYSPEC	1.000	0.850	0.850
4BK9	B30X50	BEAM SWYSPEC	1.000	0.775	0.775
4CX1	B25X40	BEAM SWYSPEC	1.000	0.900	0.900
4CX2	B25X40	BEAM SWYSPEC	1.000	0.900	0.900
4CX3	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4CX4	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4CX5	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4CX6	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4CX7	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4CX8	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4CX9	B25X40	BEAM SWYSPEC	1.000	1.000	1.000
4D10	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D11	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D12	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D13	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D14	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D15	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D16	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D17	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D18	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D19	B20X50	BEAM SWYSPEC	1.000	0.900	0.900
4D20	B20X50	BEAM SWYSPEC	1.000	0.950	0.950
4D21	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D22	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D23	B20X50	BEAM SWYSPEC	1.000	0.972	0.972
4D24	B20X50	BEAM SWYSPEC	1.000	0.944	0.944
4D25	B20X50	BEAM SWYSPEC	1.000	0.972	0.972
4D26	B20X50	BEAM SWYSPEC	1.000	0.972	0.972
4D27	B20X50	BEAM SWYSPEC	1.000	0.944	0.944
4D28	B20X50	BEAM SWYSPEC	1.000	4.056	0.972
4D29	B20X50	BEAM SWYSPEC	1.000	4.056	1.000
4D30	B20X50	BEAM SWYSPEC	1.000	4.056	1.000
4D31	B20X50	BEAM SWYSPEC	1.000	3.650	0.975
4D32	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D33	B20X50	BEAM SWYSPEC	1.000	1.000	1.000
4D34	B20X50	BEAM SWYSPEC	1.000	1.000	1.000

4D34	B30X50	BEAM	SWYSPEC	1,000	0,950	0,950
4F10	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
4F11	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
4F13	B20X30	BEAM	SWYSPEC	1,000	0,934	0,934
4F14	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
4F15	B20X30	BEAM	SWYSPEC	1,000	1,000	1,000
5A10	BI45X70	BEAM	SWYSPEC	1,000	1,500	0,917
5A11	BI45X70	BEAM	SWYSPEC	1,000	2,000	0,880
5A12	BI45X70	BEAM	SWYSPEC	1,000	2,130	0,880
5A14	BI45X70	BEAM	SWYSPEC	1,000	2,150	0,875
5A15	BI45X70	BEAM	SWYSPEC	1,000	2,275	1,000
5A16	BI45X70	BEAM	SWYSPEC	1,000	2,275	1,000
5A18	BI45X70	BEAM	SWYSPEC	1,000	2,275	1,000
5A19	BI45X70	BEAM	SWYSPEC	1,000	2,275	1,000
5A20	BI45X70	BEAM	SWYSPEC	1,000	2,275	1,000
5A22	BI45X70	BEAM	SWYSPEC	1,000	0,945	0,945
5A23	BI45X70	BEAM	SWYSPEC	1,000	2,150	0,875
5A24	BI45X70	BEAM	SWYSPEC	1,000	0,875	0,875
5A26	BI45X70	BEAM	SWYSPEC	1,000	2,250	0,875
5A27	BI45X70	BEAM	SWYSPEC	1,000	1,800	0,917
5A29	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
5A30	BI45X70	BEAM	SWYSPEC	1,000	3,167	0,917
5A31	BI45X70	BEAM	SWYSPEC	1,000	3,167	0,917
5A32	BI45X70	BEAM	SWYSPEC	1,000	0,917	0,917
5A34	BI45X70	BEAM	SWYSPEC	1,000	3,167	0,917
5A35	BI45X70	BEAM	SWYSPEC	1,000	3,167	0,917
5A36	BI45X70	BEAM	SWYSPEC	1,000	3,167	0,917
5A38	BI45X70	BEAM	SWYSPEC	1,000	1,500	0,917
5A40	BI45X70	BEAM	SWYSPEC	1,000	0,900	1,700
5A42	BI45X70	BEAM	SWYSPEC	1,000	1,000	2,125
5A49	BI45X70	BEAM	SWYSPEC	1,000	0,800	1,700
5B10	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
5B11	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
5B13	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
5B14	BI30X50	BEAM	SWYSPEC	1,000	0,910	0,910
5B15	BI30X50	BEAM	SWYSPEC	1,000	0,860	0,860
5B17	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
5B18	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
5B19	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
5B21	BI30X50	BEAM	SWYSPEC	1,000	0,894	0,894
5B22	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
5B23	BI30X50	BEAM	SWYSPEC	1,000	0,900	0,900
5B25	BI30X50	BEAM	SWYSPEC	1,000	0,810	0,810
5B26	BI30X50	BEAM	SWYSPEC	1,000	0,936	0,936
5B27	BI30X50	BEAM	SWYSPEC	1,000	0,936	0,936
5B29	BI30X50	BEAM	SWYSPEC	1,000	1,000	1,000
5B30	BI30X50	BEAM	SWYSPEC	1,000	0,855	0,855
5B31	BI30X50	BEAM	SWYOPEN	1,000	0,750	0,750
5B33	BI30X50	BEAM	SWYSPEC	1,000	1,000	1,000
5B34	BI30X50	BEAM	SWYOPEN	1,000	0,750	0,750
5B36	BI30X50	BEAM	SWYSPEC	1,000	0,882	0,882
5B37	BI30X50	BEAM	SWYSPEC	1,000	0,929	0,929
5B38	BI30X50	BEAM	SWYSPEC	1,000	0,929	0,929
5B39	BI30X50	BEAM	SWYSPEC	1,000	0,944	0,944
5BK1	B30X50	BEAM	SWYSPEC	1,000	0,855	0,855
5BK2	B30X50	BEAM	SWYSPEC	1,000	0,891	0,891
5BK3	B30X50	BEAM	SWYSPEC	1,000	0,909	0,909
5BK4	B30X50	BEAM	SWYSPEC	1,000	0,909	0,909
5BK5	B30X50	BEAM	SWYSPEC	1,000	0,909	0,909
5BK6	B30X50	BEAM	SWYSPEC	1,000	0,855	0,855
5BK7	B30X50	BEAM	SWYSPEC	1,000	0,855	0,855
5BK9	B30X50	BEAM	SWYSPEC	1,000	0,855	0,855
5C10	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
5C11	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
5C13	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
5C14	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
5C15	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
5C17	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000
5C18	B25X40	BEAM	SWYSPEC	1,000	1,000	1,000

5D19	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
5D20	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
5D10	B20X50	BEAM SWYSPEC	1,000	0,872	0,872
5D11	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
5D12	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
5D13	B20X50	BEAM SWYSPEC	1,000	0,875	0,875
5D14	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
5D15	B20X40	BEAM SWYSPEC	1,000	1,000	1,000
5D16	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
5D17	B20X50	BEAM SWYSPEC	1,000	0,850	0,850
5D18	B20X50	BEAM SWYSPEC	1,000	0,950	0,950
6A10	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A11	BI45X70	BEAM SWYSPEC	1,000	4,500	1,000
6A12	B25X40	BEAM SWYSPEC	1,000	2,500	1,000
6A13	BI45X70	BEAM SWYSPEC	1,000	1,800	0,917
6A14	BI45X70	BEAM SWYSPEC	1,000	1,800	0,917
6A15	BI45X70	BEAM SWYSPEC	1,000	4,500	1,000
6A16	BI45X70	BEAM SWYSPEC	1,000	2,020	0,500
6A17	BI45X70	BEAM SWYSPEC	1,000	4,750	1,000
6A18	BI45X70	BEAM SWYSPEC	1,000	4,750	1,000
6A19	BI45X70	BEAM SWYSPEC	1,000	2,375	1,000
6A20	BI45X70	BEAM SWYSPEC	1,000	2,375	1,000
6A21	BI45X70	BEAM SWYSPEC	1,000	2,375	1,000
6A22	BI45X70	BEAM SWYSPEC	1,000	2,375	1,000
6A23	BI45X70	BEAM SWYSPEC	1,000	1,745	1,455
6A24	BI45X70	BEAM SWYSPEC	1,000	1,745	1,455
6A25	BI45X70	BEAM SWYSPEC	1,000	2,250	0,875
6A26	BI45X70	BEAM SWYSPEC	1,000	0,875	0,875
6A27	BI45X70	BEAM SWYSPEC	1,000	4,750	1,000
6A28	BI45X70	BEAM SWYSPEC	1,000	4,750	1,000
6A29	BI45X70	BEAM SWYSPEC	1,000	0,875	0,875
6A30	BI45X70	BEAM SWYSPEC	1,000	2,250	0,875
6A31	BI45X70	BEAM SWYSPEC	1,000	1,800	0,917
6A32	BI45X70	BEAM SWYSPEC	1,000	0,917	0,917
6A33	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A34	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A35	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A36	BI45X70	BEAM SWYSPEC	1,000	1,783	0,917
6A37	BI45X70	BEAM SWYSPEC	1,000	1,783	0,917
6A38	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A39	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A40	BI45X70	BEAM SWYSPEC	1,000	3,167	0,917
6A41	BI45X70	BEAM SWYSPEC	1,000	0,917	0,917
6A42	BI45X70	BEAM SWYSPEC	1,000	1,800	0,917
6A44	BI45X70	BEAM SWYSPEC	1,000	0,900	0,900
6A46	BI45X70	BEAM SWYSPEC	1,000	1,000	1,000
6A47	BI45X70	BEAM SWYSPEC	1,000	1,000	2,125
6A48	BI45X70	BEAM SWYSPEC	1,000	0,300	1,700
6B10	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B11	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
6B12	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
6B13	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B14	BI30X50	BEAM SWYSPEC	1,000	0,896	0,896
6B15	BI30X50	BEAM SWYORDW	1,000	0,775	0,775
6B16	BI30X50	BEAM SWYSPEC	1,000	1,138	0,944
6B17	BI30X50	BEAM SWYSPEC	1,000	4,550	0,775
6B18	BI30X50	BEAM SWYSPEC	1,000	4,550	0,775
6B19	BI30X50	BEAM SWYSPEC	1,000	1,138	0,944
6B20	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6B21	BI30X50	BEAM SWYSPEC	1,000	0,060	0,850
6B22	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B23	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B24	BI30X50	BEAM SWYSPEC	1,000	1,800	0,900
6B25	BI30X50	BEAM SWYSPEC	1,000	1,800	0,900
6B26	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
6B27	BI30X50	BEAM SWYSPEC	1,000	0,894	0,894
6B28	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B29	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B30	BI30X50	BEAM SWYSPEC	1,000	0,900	0,900
6B31	BI30X50	BEAM SWYSPEC	1,000	0,910	0,910
6BK1	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK2	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK3	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK4	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK5	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK6	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK7	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK8	BI30X50	BEAM SWYSPEC	1,000	0,850	0,850
6BK9	BI30X50	BEAM SWYSPEC	1,000	0,775	0,775
6C10	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C11	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C12	B25X40	BEAM SWYSPEC	1,000	0,950	0,950
6C13	B25X40	BEAM SWYSPEC	1,000	0,950	0,950
6C14	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C15	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C16	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C17	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C18	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C19	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C20	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C21	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6C22	B25X40	BEAM SWYSPEC	1,000	1,000	1,000

[illegible]	[illegible]	BEAM SWYSPEC	1,000	1,000	1,000
6D24	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6D71	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6D72	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,775	0,775
6D74	B25X40	BEAM SWYSPEC	1,000	0,775	0,775
6D75	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
6D76	B25X40	BEAM SWYSPEC	1,000	0,775	0,775
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,834	0,834
6D78	B25X40	BEAM SWYSPEC	1,000	0,775	0,775
6D79	B25X40	BEAM SWYSPEC	1,000	0,859	0,859
6D10	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	1,000	1,000
6D12	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
6D13	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
6D14	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	1,000	1,000
6D16	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
6D17	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
6D18	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,900	0,900
6D20	B20X50	BEAM SWYSPEC	1,000	0,850	0,850
6D21	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
6D22	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,972	0,972
6D24	B20X50	BEAM SWYSPEC	1,000	0,944	0,944
6D25	B20X50	BEAM SWYSPEC	1,000	0,972	0,972
6D26	B20X50	BEAM SWYSPEC	1,000	0,972	0,972
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,944	0,944
6D28	B20X50	BEAM SWYSPEC	1,000	0,972	0,972
6D29	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
6D30	B20X50	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,775	0,775
7D71	B25X40	BEAM SWYSPEC	1,000	0,936	0,936
7D72	B25X40	BEAM SWYSPEC	1,000	0,936	0,936
7D73	B25X40	BEAM SWYSPEC	1,000	0,868	0,868
[illegible]	[illegible]	BEAM SWYSPEC	1,000	1,000	1,000
7D75	B25X40	BEAM SWYSPEC	1,000	0,855	0,855
7D76	B25X40	BEAM SWYSPEC	1,000	0,750	0,750
7D77	B25X40	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	1,000	1,000
7D79	B25X40	BEAM SWYSPEC	1,000	0,750	0,750
8B10	B130X50	BEAM SWYSPEC	1,000	0,833	0,833
8B11	B130X50	BEAM SWYSPEC	1,000	0,700	1,100
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,700	1,100
8B13	B130X50	BEAM SWYSPEC	1,000	0,891	2,436
8B14	B130X50	BEAM SWYSPEC	1,000	0,891	2,436
8B15	B130X50	BEAM SWYSPEC	1,000	1,000	1,000
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,957	0,957
8B17	B130X50	BEAM SWYSPEC	1,000	0,957	0,957
8B18	B130X50	BEAM SWYSPEC	1,000	1,000	1,000
8B19	B130X50	BEAM SWYSPEC	1,000	0,829	1,576
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,829	1,576
8B21	B130X50	BEAM SWYSPEC	1,000	0,700	1,100
8B22	B20X30	BEAM SWYSPEC	1,000	0,700	1,100
8B23	B130X50	BEAM SWYSPEC	1,000	0,833	0,833
8B24	B130X50	BEAM SWYSPEC	1,000	0,800	0,800
8B25	B130X50	BEAM SWYSPEC	1,000	0,733	0,733
8B26	B130X50	BEAM SWYSPEC	1,000	0,733	0,733
8B27	B130X50	BEAM SWYSPEC	1,000	0,733	0,733
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,733	0,733
8B29	B130X50	BEAM SWYSPEC	1,000	0,900	0,900
8B30	B130X50	BEAM SWYSPEC	1,000	0,833	0,833
8B31	B130X50	BEAM SWYSPEC	1,000	0,100	2,100
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,900	0,900
8B33	B130X50	BEAM SWYSPEC	1,000	0,944	0,944
8B34	B130X50	BEAM SWYSPEC	1,000	0,944	0,944
8B35	B30X50	BEAM SWYSPEC	1,000	0,855	0,855
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,909	0,909
8B37	B30X50	BEAM SWYSPEC	1,000	0,909	0,909
8B38	B30X50	BEAM SWYSPEC	1,000	0,909	0,909
8B39	B30X50	BEAM SWYSPEC	1,000	0,855	0,855
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,855	0,855
8B41	B30X50	BEAM SWYSPEC	1,000	1,000	1,000
8B42	B30X50	BEAM SWYSPEC	1,000	0,855	0,855
8B43	B30X50	BEAM SWYSPEC	1,000	0,855	0,855
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,909	0,909
8B45	B30X50	BEAM SWYSPEC	1,000	0,909	0,909
8B46	B30X50	BEAM SWYSPEC	1,000	0,909	0,909
8B47	B30X50	BEAM SWYSPEC	1,000	0,855	0,855
[illegible]	[illegible]	BEAM SWYSPEC	1,000	2,762	2,762
8C71	B25X40	BEAM SWYSPEC	1,000	3,222	3,222
8C73	B25X40	BEAM SWYSPEC	1,000	2,762	2,762
8C74	B25X40	BEAM SWYSPEC	1,000	0,700	0,700
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,700	0,700
8C76	B25X40	BEAM SWYSPEC	1,000	2,913	2,913
8C77	B25X40	BEAM SWYSPEC	1,000	2,913	2,913
8C79	B25X40	BEAM SWYSPEC	1,000	2,792	2,792
[illegible]	[illegible]	BEAM SWYSPEC	1,000	0,957	0,957
8D10	B20X50	BEAM SWYSPEC	1,000	0,972	0,972
8D11	B20X50	BEAM SWYSPEC	1,000	1,000	1,000

[illegible]	[illegible]	BEAM	SWYSPEC	1.000	1.000	1.000		
M13	B30X60	BEAM	SWYSPEC	1.000	0.975	0.975		
8F10	B20X60	BEAM	SWYSPEC	1.000	1.799	0.800		
8F11	B20X30	BEAM	SWYSPEC	1.000	1.789	0.889		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.933	0.933		
8F13	B30X30	BEAM	SWYSPEC	1.000	0.830	0.833		
8F14	B30X30	BEAM	SWYDEEC	1.000	1.799	0.899		
8F15	B20X30	BEAM	SWYSPEC	1.000	1.799	0.900		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.900	0.900		
8F17	B20X30	BEAM	SWYSPEC	1.000	1.157	0.836		
8F18	B20X30	BEAM	SWYSPEC	1.000	4.050	0.775		
8F19	B20X30	BEAM	SWYSPEC	1.000	0.900	0.900		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.914	0.914		
8F21	B30X30	BEAM	SWYSPEC	1.000	0.983	0.983		
8F22	B20X30	BEAM	SWYSPEC	1.000	0.993	0.993		
8F23	B30X30	BEAM	SWYSPEC	1.000	0.993	0.993		
8F24	[illegible]	BEAM	SWYSPEC	1.000	0.975	0.975		
8F25	B30X30	BEAM	SWYSPEC	1.000	0.914	0.914		
8F26	B30X30	BEAM	SWYSPEC	1.000	0.850	0.850		
8F27	B20X30	BEAM	SWYSWTP	1.000	0.950	0.850		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.914	0.914		
8F29	B30X30	BEAM	SWYSPEC	1.000	0.993	0.993		
8F30	B30X30	BEAM	SWYSPEC	1.000	0.993	0.993		
8F31	B30X30	BEAM	SWYSPEC	1.000	0.933	0.930		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.933	0.933		
8F33	B30X30	BEAM	SWYSPEC	1.000	0.914	0.914		
8F34	B20X30	BEAM	SWYINTP	1.000	0.850	0.850		
8F35	B20X30	BEAM	SWYSPEC	1.000	0.910	0.910		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.900	0.900		
8F37	B20X30	BEAM	SWYSPEC	1.000	4.050	0.775		
8F38	B20X30	BEAM	SWYSPEC	1.000	1.157	0.836		
8F39	B20X30	BEAM	SWYSPEC	1.000	0.900	0.900		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.914	0.914		
8F41	B20X30	BEAM	SWYSPEC	1.000	0.894	0.894		
8F42	B20X30	BEAM	SWYSPEC	1.000	0.900	0.900		
8F43	B20X30	BEAM	SWYSPEC	1.000	1.157	0.956		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	4.050	0.775		
8F45	B20X30	BEAM	SWYSPEC	1.000	0.900	0.900		
8F46	B20X30	BEAM	SWYSPEC	1.000	0.910	0.910		
8F47	B20X30	BEAM	SWYSPEC	1.000	0.914	0.914		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.993	0.993		
8F49	B30X30	BEAM	SWYSPEC	1.000	0.993	0.993		
8F50	B30X30	BEAM	SWYSPEC	1.000	0.993	0.993		
8F51	B20X30	BEAM	SWYSPEC	1.000	0.993	0.993		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.914	0.914		
8F53	B20X30	BEAM	SWYSPEC	1.000	0.914	0.914		
8F54	B20X30	BEAM	SWYSPEC	1.000	0.933	0.933		
8F55	B20X30	BEAM	SWYSPEC	1.000	0.933	0.933		
[illegible]	[illegible]	BEAM	SWYSPEC	1.000	0.933	0.933		
8F57	B20X30	BEAM	SWYSPEC	1.000	0.933	0.932		
8F58	B20X30	BEAM	SWYSPEC	1.000	0.914	0.914		
K1H1	1K50X50	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K1H2	1K50X50	COLUMN	SWYSPEC	1.000	0.788	0.788	1.000	1.000
K1H3	1K50X50	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K1H4	1K50X50	COLUMN	SWYORDN	1.000	0.400	0.400	1.000	1.000
K1H5	1K50X50	COLUMN	SWYSPEC	1.000	0.800	0.800	1.000	1.000
K1H6	1K50X50	COLUMN	SWYORDN	1.000	0.400	0.400	1.000	1.000
K1H7	1K50X50	COLUMN	SWYSPEC	1.000	0.800	0.800	1.000	1.000
K1H8	1K50X50	COLUMN	SWYORDN	1.000	1.000	1.000	1.000	1.000
K1H9	1K50X50	COLUMN	SWYSPEC	1.000	0.858	0.858	1.000	1.000
K1I1	1K50X50	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K1J2	1K50X50	COLUMN	SWYSPEC	1.000	0.788	0.788	1.001	1.000
K1J3	1K50X50	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K1J4	1K50X50	COLUMN	SWYORDN	1.000	0.400	0.400	1.000	1.000
K1J5	1K50X50	COLUMN	SWYSPEC	1.000	0.800	0.800	1.000	1.000
K1J6	1K50X50	COLUMN	SWYORDN	1.000	0.400	0.400	1.000	1.000
K1J7	1K50X50	COLUMN	SWYSPEC	1.000	0.800	0.800	1.000	1.000
K1J8	1K50X50	COLUMN	SWYORDN	1.000	1.000	1.000	1.000	1.000
K1J9	1K50X50	COLUMN	SWYSPEC	1.000	0.858	0.858	1.000	1.000
K2A1	KB50X45	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K2A2	KB50X45	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K2A3	KB50X45	COLUMN	SWYSPEC	1.000	0.788	0.788	1.000	1.000
K2A4	KB50X45	COLUMN	SWYSPEC	1.000	0.788	0.788	1.000	1.000
K2A5	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2A6	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2A7	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2A8	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2A9	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2C1	KB50X45	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K2C2	KB50X45	COLUMN	SWYSPEC	1.000	0.788	0.788	1.000	1.000
K2C3	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2C4	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2C5	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2C6	KB50X45	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K2C7	KB50X45	COLUMN	SWYSPEC	1.000	0.788	0.788	1.000	1.000
K2C8	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2C9	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2D1	KB50X45	COLUMN	SWYSPEC	1.000	0.778	0.778	1.000	1.000
K2D2	KB50X45	COLUMN	SWYSPEC	1.000	0.788	0.788	1.000	1.000
K2D3	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2D4	KB50X45	COLUMN	SWYSPEC	1.000	0.825	0.825	1.000	1.000

K2D5	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2D6	KB50X45	COLUMN	SWYSPEC	1,000	1,087	0,834	1,000	1,000
K2D7	KB50X45	COLUMN	SWYORDN	1,000	4,926	0,948	1,000	1,000
K2D8	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2D9	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2P1	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2P2	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2P3	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2P4	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2P5	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2P6	KB50X45	COLUMN	SWYSPEC	1,000	0,850	0,850	1,000	1,000
K2P7	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2P8	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2P9	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2G1	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2G2	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2G3	KB50X45	COLUMN	SWYSPEC	1,000	0,834	0,834	1,000	1,000
K2G4	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2G6	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2G7	KB50X45	COLUMN	SWYSPEC	1,000	0,850	0,850	1,000	1,000
K2G8	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2G9	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2H1	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2H2	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2H3	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2H4	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2H5	KB50X45	COLUMN	SWYSPEC	1,000	0,834	0,834	1,000	1,000
K2H6	KB50X45	COLUMN	SWYSPEC	1,000	0,850	0,850	1,000	1,000
K2H7	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2H8	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2H9	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2J1	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2J2	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2J3	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2J4	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2J5	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K2J6	KB50X45	COLUMN	SWYSPEC	1,000	0,834	0,834	1,000	1,000
K2J7	KB50X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K2J8	KB50X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K2J9	KB50X45	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K3A1	3KB45X45	COLUMN	SWYSPEC	1,000	0,815	0,815	1,000	1,000
K3A2	3KB45X45	COLUMN	SWYSPEC	1,000	0,848	0,848	1,000	1,000
K3A3	3KB45X45	COLUMN	SWYSPEC	1,000	0,900	0,900	1,000	1,000
K3A4	3KB45X45	COLUMN	SWYSPEC	1,000	0,875	0,875	1,000	1,000
K3A5	3KB45X45	COLUMN	SWYSPEC	1,000	0,871	0,871	1,000	1,000
K3A6	3KB45X45	COLUMN	SWYSPEC	1,000	0,858	0,858	1,000	1,000
K3A7	3KB45X45	COLUMN	SWYSPEC	1,000	0,815	0,815	1,000	1,000
K3A8	3KB45X45	COLUMN	SWYSPEC	1,000	0,848	0,848	1,000	1,000
K3A9	3KB45X45	COLUMN	SWYSPEC	1,000	0,900	0,900	1,000	1,000
K3T1	3KB45X45	COLUMN	SWYSPEC	1,000	0,773	0,773	1,000	1,000
K3T2	3KB45X45	COLUMN	SWYSPEC	1,000	0,782	0,782	1,000	1,000
K3I3	3KB45X45	COLUMN	SWYSPEC	1,000	0,778	0,778	1,000	1,000
K3I4	3KB45X45	COLUMN	SWYSPEC	1,000	0,788	0,788	1,000	1,000
K4C1	4KB30X30	COLUMN	SWYSPEC	1,000	2,074	0,852	1,000	1,000
K4C2	4KB30X30	COLUMN	SWYSPEC	1,000	1,697	0,879	1,000	1,000
K4C3	4KB30X30	COLUMN	SWYSPEC	1,000	0,886	0,886	1,000	1,000
K4C4	4KB30X30	COLUMN	SWYSPEC	1,000	0,875	0,875	1,000	1,000
K4C5	4KB30X30	COLUMN	SWYSPEC	1,000	0,875	0,875	1,000	1,000
K4D1	4KB30X30	COLUMN	SWYSPEC	1,000	0,852	0,852	1,000	1,000
K4D2	4KB30X30	COLUMN	SWYSPEC	1,000	0,879	0,879	1,000	1,000
K4D3	4KB30X30	COLUMN	SWYSPEC	1,000	0,888	0,888	1,000	1,000
K4D4	4KB30X30	COLUMN	SWYSPEC	1,000	0,875	0,875	1,000	1,000
K4D5	4KB30X30	COLUMN	SWYSPEC	1,000	0,875	0,875	1,000	1,000
K4E1	4KB30X30	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000
K4E2	4KB30X30	COLUMN	SWYSPEC	1,000	0,825	0,825	1,000	1,000

K4F1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4F2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4G1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4G2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4H1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4H2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4H3	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4H4	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4J1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4J2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4J3	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4J4	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4K1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4K2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4L1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4L2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4M1	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4M2	4KB30X30	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K4N1	4KB30X30	COLUMN	SW7SPBC	1.000	2.074	0.852	1.000	1.000
K4N2	4KB30X30	COLUMN	SW7SPBC	1.000	1.697	0.879	1.000	1.000
K4N3	4KB30X30	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K4N4	4KB30X30	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K4N5	4KB30X30	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K4O1	4KB30X30	COLUMN	SW7SPBC	1.000	2.074	0.852	1.000	1.000
K4O2	4KB30X30	COLUMN	SW7SPBC	1.000	1.697	0.879	1.000	1.000
K4O3	4KB30X30	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K4O4	4KB30X30	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K4O5	4KB30X30	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5A1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5A2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5A3	K30X25	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K5A4	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5A5	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5A6	K30X25	COLUMN	SW7SPBC	1.000	0.877	0.875	1.000	1.000
K5A7	K30X25	COLUMN	SW7SPBC	1.000	0.788	0.788	1.000	1.000
K5B1	K30X25	COLUMN	SW7SPBC	1.000	0.815	0.815	1.000	1.000
K5B2	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5B3	K30X25	COLUMN	SW7SPBC	1.000	0.848	0.848	1.000	1.000
K5B4	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5B5	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5B6	K30X25	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K5B7	K30X25	COLUMN	SW7SPBC	1.000	0.876	0.875	1.000	1.000
K5B8	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5B9	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5C1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5C2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5D1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5D2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5G1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5G2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5G3	K30X25	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K5G4	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5G5	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5G6	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5H1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5H2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5H3	K30X25	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K5H4	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5H5	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5H6	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5K1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5K2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5K3	K30X25	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K5K4	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5K5	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5K6	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5N1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5N2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5N3	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5O2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5P1	K30X25	COLUMN	SW7SPBC	1.000	0.852	0.852	1.000	1.000
K5P2	K30X25	COLUMN	SW7SPBC	1.000	0.879	0.879	1.000	1.000
K5P3	K30X25	COLUMN	SW7SPBC	1.000	0.888	0.888	1.000	1.000
K5P4	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5P5	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K5P6	K30X25	COLUMN	SW7SPBC	1.000	0.875	0.875	1.000	1.000
K6H1	6K30X50	COLUMN	SW7SPBC	1.000	0.778	0.778	1.000	1.000
K6H2	6K30X50	COLUMN	SW7SPBC	1.000	0.788	0.788	1.000	1.000
K6H3	6K30X50	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K6H4	6K30X50	COLUMN	SW700BIN	1.000	0.400	0.400	1.000	1.000
K6H5	6K30X50	COLUMN	SW7SPBC	1.000	1.187	0.800	1.000	1.000
K6H6	6K30X50	COLUMN	SW700BIN	1.000	3.500	0.400	1.000	1.000
K6H7	6K30X50	COLUMN	SW7SPBC	1.000	1.953	0.800	1.000	1.000
K6H8	6K30X50	COLUMN	SW7SPBC	1.000	1.770	0.834	1.000	1.000
K6H9	6K30X50	COLUMN	SW700BIN	1.000	0.848	0.848	1.000	1.000
K6J1	6K30X50	COLUMN	SW7SPBC	1.000	0.778	0.778	1.000	1.000
K6J2	6K30X50	COLUMN	SW7SPBC	1.000	0.788	0.788	1.000	1.000
K6J3	6K30X50	COLUMN	SW7SPBC	1.000	0.825	0.825	1.000	1.000
K6J4	6K30X50	COLUMN	SW700BIN	1.000	0.400	0.400	1.000	1.000
K6J5	6K30X50	COLUMN	SW7SPBC	1.000	1.187	0.800	1.000	1.000
K6J6	6P30X50	COLUMN	SW700BIN	1.000	3.500	0.400	1.000	1.000

K577	K30X50	COLUMN	SW7SPEC	1,000	1,469	0,800	1,000	1,000
K578	K30X50	COLUMN	SW7SPEC	1,000	1,770	0,884	1,000	1,000
K579	K30X50	COLUMN	SW7SPEC	1,000	0,348	0,348	1,000	1,000
3CX10	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX11	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX12	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX13	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX14	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX15	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX16	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX17	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX18	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX19	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX20	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX21	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX22	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX23	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CX24	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
3CY10	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY11	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY12	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY13	B25X40	BEAM	SW7SPEC	1,000	0,918	0,918		
3CY14	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY15	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY16	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY17	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY18	B25X40	BEAM	SW7SPEC	1,000	0,855	0,855		
3CY19	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
3CY20	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
3CY21	B25X40	BEAM	SW7SPEC	1,000	0,944	0,944		
3CY22	B25X40	BEAM	SW7SPEC	1,000	0,944	0,944		
3CY23	B25X40	BEAM	SW7SPEC	1,000	0,972	0,972		
3CY24	B25X40	BEAM	SW7SPEC	1,000	0,972	0,972		
3CY25	B25X40	BEAM	SW7SPEC	1,000	0,944	0,944		
3CY26	B25X40	BEAM	SW7SPEC	1,000	0,944	0,944		
3CY27	B25X40	BEAM	SW7SPEC	1,000	0,950	0,950		
4BK10	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
4BK11	BI30X50	BEAM	SW7SPEC	1,000	1,000	1,000		
4BK12	BI30X50	BEAM	SW7SPEC	1,000	1,000	1,000		
4BK13	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
4BK14	B30X50	BEAM	SW7SPEC	1,000	0,891	0,891		
4BK15	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
4BK16	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
4BK17	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
4BK18	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
4BK19	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
4BK20	B30X50	BEAM	SW7SPEC	1,000	1,000	1,000		
4BK21	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
4BK22	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
4BK23	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
4BK24	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
4BK25	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
4BK26	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
4BK27	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
4BK28	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
4BK29	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
4BK30	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
4CX10	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX11	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX12	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX13	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX14	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX15	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX16	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX17	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX18	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX19	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4CX20	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
4BK10	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
5BK11	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
5BK12	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
5BK13	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
5BK14	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
5BK15	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
5BK16	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
5BK17	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
5BK18	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
6BK10	BI30X50	BEAM	SW7SPEC	1,000	0,775	0,775		
6BK11	BI30X50	BEAM	SW7SPEC	1,000	1,000	1,000		
6BK12	BI30X50	BEAM	SW7SPEC	1,000	1,000	1,000		
6BK13	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
6BK14	B30X50	BEAM	SW7SPEC	1,000	0,891	0,891		
6BK15	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
6BK16	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
6BK17	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		
6BK18	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
6BK19	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
6BK20	B30X50	BEAM	SW7SPEC	1,000	1,000	1,000		
6BK21	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
6BK22	B30X50	BEAM	SW7SPEC	1,000	0,855	0,855		
6BK23	B30X50	BEAM	SW7SPEC	1,000	0,909	0,909		

[illegible]	B25X50	BEAM	SW7SPEC	1,000	0,904	0,904		
6EB15	B25X50	BEAM	SW7SPEC	1,000	0,909	0,909		
6EM20	B30X50	BEAM	SW7SPEC	1,000	0,885	0,885		
6CY10	B25X40	BEAM	SW7SPEC	1,000	0,965	0,965		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	0,955	0,955		
6CY13	B25X40	BEAM	SW7SPEC	1,000	0,950	0,950		
6CY19	B25X40	BEAM	SW7SPEC	1,000	0,500	0,750		
6CY16	B25X40	BEAM	SW7SPEC	1,000	0,500	0,750		
7CY10	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY11	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY12	B25X40	BEAM	SW7SPEC	1,000	0,906	0,906		
7CY13	B15X40	BEAM	SW7SPEC	1,000	1,860	0,860		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY15	B25X40	BEAM	SW7SPEC	1,000	0,944	0,944		
7CY16	B25X40	BEAM	SW7SPEC	1,000	0,944	0,944		
7CY17	B25X40	BEAM	SW7SPEC	1,000	1,820	0,410		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	1,000	0,910		
7CY19	B15X40	BEAM	SW7SPEC	1,000	0,950	0,950		
7CY20	B25X40	BEAM	SW7SPEC	1,000	0,960	0,960		
7CY21	B25X40	BEAM	SW7SPEC	1,000	1,020	0,010		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	1,000	0,910		
7CY23	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY24	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY25	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY27	B25X40	BEAM	SW7SPEC	1,000	1,800	1,000		
7CY28	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY29	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY31	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY32	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY33	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY35	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY36	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY37	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	0,940	0,940		
7CY39	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY40	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY41	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY43	B25X40	BEAM	SW7SPEC	1,000	1,000	1,000		
7CY44	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY45	B25X40	BEAM	SW7SPEC	1,000	0,850	0,850		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	0,940	0,940		
7CY47	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY48	B25X40	BEAM	SW7SPEC	1,000	0,900	0,900		
7CY49	B25X40	BEAM	SW7SPEC	1,000	1,810	0,910		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	1,870	0,910		
8CY10	B25X40	BEAM	SW7SPEC	1,000	0,957	0,957		
8CY11	B25X40	BEAM	SW7SPEC	1,000	0,957	0,957		
8CY12	B25X40	BEAM	SW7SPEC	1,000	0,957	0,957		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	0,957	0,957		
8CY14	B25X40	BEAM	SW7SPEC	1,000	0,957	0,957		
8CY15	B25X40	BEAM	SW7SPEC	1,000	2,792	2,792		
8CY16	B25X40	BEAM	SW7SPEC	1,000	2,913	2,913		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	2,913	2,913		
8CY18	B15X40	BEAM	SW7SPEC	1,000	0,700	0,700		
8CY19	B25X40	BEAM	SW7SPEC	1,000	2,762	2,762		
8CY20	B25X40	BEAM	SW7SPEC	1,000	3,202	3,202		
[illegible]	B25X40	BEAM	SW7SPEC	1,000	2,745	2,745		
8CY22	B25X40	BEAM	SW7SPEC	1,000	0,700	0,700		
K1H10	1K50X50	COLUMN	SW7QPIN	1,000	0,483	0,483	1,000	1,000
K1H11	1K50X50	COLUMN	SW7SPEC	1,000	0,778	0,778	1,000	1,000
K1H12	1K50X50	COLUMN	SW7SPEC	1,000	0,798	0,798	1,000	1,000
K1H13	1K50X50	COLUMN	SW7SPEC	1,000	0,855	0,855	1,000	1,000
K1H14	1K50X50	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K1H15	1K50X50	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K1H16	1K50X50	COLUMN	SW7SPEC	1,000	0,850	0,850	1,000	1,000
K1J10	1K50X50	COLUMN	SW7QPIN	1,000	0,483	0,483	1,000	1,000
K1J11	1K50X50	COLUMN	SW7SPEC	1,000	0,778	0,778	1,000	1,000
K1J12	1K50X50	COLUMN	SW7SPEC	1,000	0,798	0,798	1,000	1,000
K1J13	1K50X50	COLUMN	SW7SPEC	1,000	0,855	0,855	1,000	1,000
K1J14	1K50X50	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K1J15	1K50X50	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K1J16	1K50X50	COLUMN	SW7SPEC	1,000	0,850	0,850	1,000	1,000
K2A10	KB50X45	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K2A11	KB50X45	COLUMN	SW7SPEC	1,000	0,834	0,834	1,000	1,000
K2A12	KB50X45	COLUMN	SW7SPEC	1,000	0,834	0,834	1,000	1,000
K2A13	KB50X45	COLUMN	SW7QADN	1,000	0,848	0,848	1,000	1,000
K2C10	KB50X45	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K2C11	KB50X45	COLUMN	SW7SPEC	1,000	0,834	0,834	1,000	1,000
K2C12	KB50X45	COLUMN	SW7SPEC	1,000	0,778	0,778	1,000	1,000
K2C13	KB50X45	COLUMN	SW7SPEC	1,000	0,798	0,798	1,000	1,000
K2C14	KB50X45	COLUMN	SW7SPEC	1,000	0,855	0,855	1,000	1,000
K2C15	KB50X45	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K2C16	KB50X45	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K2C17	KB50X45	COLUMN	SW7SPEC	1,000	0,834	0,834	1,000	1,000
K2C18	KB50X45	COLUMN	SW7QPEN	1,000	0,848	0,848	1,000	1,000
K2D10	KB50X45	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000
K2D11	KB50X45	COLUMN	SW7SPEC	1,000	0,825	0,825	1,000	1,000

K2D17	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2D25	KB50X45	COLUMN SWYSPEC	1.000	0.834	0.834	1.000	1.000
K2D27	KB50X45	COLUMN SWYSPEC	1.000	0.840	0.848	1.000	1.000
K2E10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2E11	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2E12	KB50X45	COLUMN SWYSPEC	1.000	0.850	0.850	1.000	1.000
K2G10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2G11	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2G12	KB50X45	COLUMN SWYSPEC	1.000	0.840	0.850	1.000	1.000
K2K10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2K11	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2K12	KB50X45	COLUMN SWYSPEC	1.000	0.836	0.825	1.000	1.000
K2L10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2L11	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2L12	KB50X45	COLUMN SWYSPEC	1.000	0.850	0.850	1.000	1.000
K2M10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2M11	KB50X45	COLUMN SWYSPEC	1.000	0.826	0.825	1.000	1.000
K2M12	KB50X45	COLUMN SWYSPEC	1.000	0.826	0.826	1.000	1.000
K2N13	KB50X45	COLUMN SWYSPEC	1.000	0.834	0.834	1.000	1.000
K2N14	KB50X45	COLUMN SWYSPEC	1.000	0.848	0.848	1.000	1.000
K2O10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2O11	KB50X45	COLUMN SWYSPEC	1.000	0.834	0.834	1.000	1.000
K2O12	KB50X45	COLUMN SWYSPEC	1.000	0.779	0.779	1.000	1.000
K2O13	KB50X45	COLUMN SWYSPEC	1.000	0.780	0.780	1.000	1.000
K2O14	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2O15	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2O16	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2O17	KB50X45	COLUMN SWYSPEC	1.000	0.834	0.834	1.000	1.000
K2O18	KB50X45	COLUMN SWYSPEC	1.000	0.848	0.848	1.000	1.000
K2P10	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2P11	KB50X45	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K2P12	KB50X45	COLUMN SWYSPEC	1.000	0.834	0.834	1.000	1.000
K2P13	KB50X45	COLUMN SWYSPEC	1.000	0.848	0.848	1.000	1.000
K3A10	KB45X45	COLUMN SWYSPEC	1.000	0.875	0.875	1.000	1.000
K3A11	KB45X45	COLUMN SWYSPEC	1.000	0.871	0.871	1.000	1.000
K3A12	KB45X45	COLUMN SWYSPEC	1.000	0.858	0.858	1.000	1.000
K5B10	K30X25	COLUMN SWYSPEC	1.000	0.875	0.875	1.000	1.000
K5P11	K30X25	COLUMN SWYSPEC	1.000	0.864	0.864	1.000	1.000
K5S12	K30X25	COLUMN SWYSPEC	1.000	0.875	0.875	1.000	1.000
K5J17	K30X25	COLUMN SWYSPEC	1.000	0.850	0.850	1.000	1.000
K5J18	K30X25	COLUMN SWYSPEC	1.000	0.879	0.879	1.000	1.000
K5J19	K30X25	COLUMN SWYSPEC	1.000	0.888	0.888	1.000	1.000
K5J20	K30X25	COLUMN SWYSPEC	1.000	0.875	0.875	1.000	1.000
K5J21	K30X25	COLUMN SWYSPEC	1.000	0.825	0.825	1.000	1.000
K5J22	K30X25	COLUMN SWYSPEC	1.000	0.875	0.875	1.000	1.000

Sonei & ens
Kampus UII Ekonomi UII

C O N C R E T E F R A M E O U T P U T (SI Units)

BIAXIAL P-M INTERACTION AND SHEAR DESIGN OF COLUMN-TYPE ELEMENTS

FLRWK ID	SECTION ID	STATION ID	REQUIRED REINFORCING			
			LONGITUDINAL	COMBO	SHEAR33	COMBO
K1H1	1K50X50	250,000	2500,000	DCON1	3,845	EH
K1H1	1K50X50	1300,000	2500,000	DCON1	3,945	EH
K1H1	1K50X50	2350,000	2500,000	DCON1	3,945	EH
K1H2	1K50X50	350,000	2500,000	DCON1	3,150	EH
K1H2	1K50X50	1650,000	2500,000	DCON1	3,150	EH
K1H2	1K50X50	2950,000	2500,000	DCON1	3,150	EH
K1H3	1K50X50	350,000	2500,000	DCON1	2,439	EH
K1H3	1K50X50	2000,000	2500,000	DCON1	2,439	EH
K1H3	1K50X50	3650,000	2500,000	DCON1	2,439	EH
K1H4	1K50X50	250,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H4	1K50X50	450,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H4	1K50X50	650,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H5	1K50X50	350,000	2500,000	DCON1	3,976	EH 3,976 EH
K1H5	1K50X50	1650,000	2500,000	DCON1	3,976	EH 3,976 EH
K1H5	1K50X50	2750,000	3988,380	DCON3	3,976	EH 3,976 EH
K1H6	1K50X50	250,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H6	1K50X50	450,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H6	1K50X50	650,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H7	1K50X50	350,000	2500,000	DCON1	3,845 DCON3	0,046 DCON3
K1H7	1K50X50	1650,000	2500,000	DCON1	3,859 DCON3	3,859 DCON3
K1H7	1K50X50	2750,000	2500,000	DCON1	3,860 DCON5	3,860 DCON5
K1H8	1K50X50	0,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H8	1K50X50	250,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1
K1H8	1K50X50	500,000	2500,000	DCON1	0,000 DCON1	0,000 DCON1

KL29	1K50X50	960,000	2500,000	DCON1	0,480	DCON2	0,480	DCON2	
KL29	1K50X50	1405,000	2500,000	DCON1	0,502	DCON2	0,509	DCON2	
KL29	1K50X50	2610,000	2500,000	DCON1	0,531	DCON1	0,531	DCON1	
KL30	1K50X50	960,000	2500,000	DCON1	0,946	BH	0,946	BH	
KL30	1K50X50	1800,000	2500,000	DCON1	0,945	BH	0,949	BH	
KL30	1K50X50	2880,000	2500,000	DCON1	0,945	BH	0,948	BH	
KL30	1K50X50	960,000	2500,000	DCON1	0,149	BH	0,148	BH	
KL30	1K50X50	1650,000	2500,000	DCON1	0,149	BH	0,140	BH	
KL30	1K50X50	2950,000	2500,000	DCON1	0,149	BH	0,143	BH	
KL30	1K50X50	960,000	2500,000	DCON1	0,439	BH	0,429	BH	
KL30	1K50X50	2000,000	2500,000	DCON1	0,439	BH	0,434	BH	
KL30	1K50X50	2950,000	2500,000	DCON1	0,419	BH	0,439	BH	
KL34	1K50X50	960,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL34	1K50X50	480,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL34	1K50X50	960,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL35	1K50X50	960,000	2500,000	DCON1	3,961	BH	3,961	BH	
KL35	1K50X50	1650,000	2500,000	DCON1	3,921	BH	3,961	BH	
KL35	1K50X50	2760,000	2454,171	DCON1	3,961	BH	3,961	BH	
KL36	1K50X50	960,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL36	1K50X50	480,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL36	1K50X50	960,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL37	1K50X50	960,000	2500,000	DCON1	3,949	DCON4	3,949	DCON4	
KL37	1K50X50	1650,000	2500,000	DCON1	3,961	DCON4	3,961	DCON4	
KL37	1K50X50	2760,000	2500,000	DCON1	3,963	DCON5	3,963	DCON5	
KL38	1K50X50	0,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL38	1K50X50	250,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL38	1K50X50	500,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
KL39	1K50X50	960,000	2500,000	DCON1	3,488	DCON7	3,488	DCON7	
KL39	1K50X50	1405,000	2500,000	DCON1	3,507	DCON1	3,507	DCON2	
KL39	1K50X50	2610,000	2500,000	DCON1	3,529	DCON1	3,525	DCON1	
KZA1	KB50X45	960,000	2250,000	DCON1	3,938	DCON7	3,944	DCON7	
KZA1	KB50X45	1300,000	2250,000	DCON1	3,967	DCON7	3,934	DCON7	
KZA1	KB50X45	2850,000	2250,000	DCON1	3,957	DCON7	3,924	DCON7	
KZA2	KB50X45	960,000	2250,000	DCON1	3,394	BH	3,366	BH	
KZA2	KB50X45	1300,000	2250,000	DCON1	3,394	BH	3,366	BH	
KZA2	KB50X45	2850,000	2250,000	DCON1	3,394	BH	3,366	BH	
KZA3	KB50X45	960,000	2250,000	DCON1	3,198	DCON5	3,162	DCON5	
KZA3	KB50X45	1650,000	2250,000	DCON1	3,200	DCON5	3,174	DCON5	
KZA3	KB50X45	2950,000	2250,000	DCON1	3,219	DCON5	3,185	DCON5	
KZA4	KB50X45	960,000	2250,000	DCON1	3,167	DCON7	3,142	DCON7	
KZA4	KB50X45	1650,000	2250,000	DCON1	3,178	DCON7	3,152	DCON7	
KZA4	KB50X45	2950,000	2250,000	DCON1	3,188	DCON7	3,162	DCON7	
KZA5	KB50X45	960,000	2250,000	DCON1	2,482	DCON5	2,460	DCON5	
KZA5	KB50X45	2000,000	2250,000	DCON1	2,494	DCON5	2,474	DCON5	
KZA5	KB50X45	3650,000	2250,000	DCON1	2,506	DCON5	2,486	DCON5	
KZA6	KB50X45	960,000	2250,000	DCON1	2,466	DCON7	2,446	DCON7	
KZA6	KB50X45	2000,000	2250,000	DCON1	2,479	DCON7	2,457	DCON7	
KZA6	KB50X45	3650,000	2250,000	DCON1	2,490	DCON7	2,470	DCON7	
KZA7	KB50X45	960,000	2250,000	DCON1	2,486	BH	2,474	BH	
KZA7	KB50X45	2000,000	2250,000	DCON1	2,497	BH	2,477	BH	
KZA7	KB50X45	3650,000	2250,000	DCON1	2,508	BH	2,488	BH	
KZA8	KB50X45	960,000	2250,000	DCON1	2,522	DCON3	2,501	DCON3	
KZA8	KB50X45	2000,000	2250,000	DCON1	2,534	DCON3	2,513	DCON3	
KZA8	KB50X45	3650,000	2250,000	DCON1	2,562	DCON10	2,482	DCON10	
KZA9	KB50X45	960,000	2250,000	DCON1	2,401	DCON1	2,380	DCON1	
KZA9	KB50X45	2000,000	2250,000	DCON1	2,421	DCON1	2,400	DCON1	
KZA9	KB50X45	3650,000	2250,000	DCON1	2,442	DCON1	2,420	DCON1	
KZC1	KB50X45	960,000	2250,000	DCON1	3,364	BH	3,336	BH	
KZC1	KB50X45	1300,000	2250,000	DCON1	3,364	BH	3,336	BH	
KZC1	KB50X45	2850,000	2250,000	DCON1	3,354	BH	3,336	BH	
KZC2	KB50X45	960,000	2250,000	DCON1	3,199	DCON9	3,172	DCON9	
KZC2	KB50X45	1650,000	2250,000	DCON1	3,209	DCON9	3,182	DCON9	
KZC2	KB50X45	2950,000	2250,000	DCON1	3,220	DCON9	3,182	DCON9	
KZC3	KB50X45	960,000	2250,000	DCON1	2,445	DCON7	2,424	DCON7	
KZC3	KB50X45	2000,000	2250,000	DCON1	2,458	DCON7	2,435	DCON7	
KZC3	KB50X45	3650,000	2250,000	DCON1	2,471	DCON7	2,449	DCON7	
KZC4	KB50X45	960,000	2250,000	DCON1	2,479	DCON2	2,457	DCON2	
KZC4	KB50X45	2000,000	2250,000	DCON1	2,493	DCON2	2,473	DCON1	

M2F4	KB50X45	3650,000	2250,000	DCON1	2,567	DCON2	2,480	DCON2
M2G5	KB50X45	650,000	2250,000	DCON1	2,221	DCON2	2,806	DCON2
M2G5	KB50X45	0000,000	2250,000	DCON1	2,238	DCON2	2,819	DCON2
M2F5	KB50X45	3650,000	2250,000	DCON1	2,255	DCON2	2,796	DCON2
M2G6	KB50X45	650,000	2250,000	DCON1	3,773	BH	3,740	BH
M2G6	KB50X45	1800,000	2250,000	DCON1	3,773	BH	3,740	BH
M2F6	KB50X45	3650,000	2250,000	DCON1	3,773	BH	3,747	BH
M2G7	KB50X45	650,000	2250,000	DCON1	2,943	BH	2,918	BH
M2G7	KB50X45	1650,000	2250,000	DCON1	2,943	BH	2,918	BH
M2F7	KB50X45	3650,000	2250,000	DCON1	2,942	BH	2,919	BH
M2G8	KB50X45	650,000	2250,000	DCON1	2,239	BH	2,219	BH
M2G8	KB50X45	2000,000	2250,000	DCON1	2,238	BH	2,219	BH
M2F8	KB50X45	3650,000	2250,000	DCON1	2,238	BH	2,219	BH
M2G9	KB50X45	650,000	2250,000	DCON1	3,166	BH	3,147	BH
M2G9	KB50X45	2000,000	2250,000	DCON1	3,166	BH	3,147	BH
M2F9	KB50X45	3650,000	2250,000	DCON1	3,167	BH	3,147	BH
M2D1	KB50X45	650,000	2250,000	DCON1	3,855	BH	3,821	BH
M2D1	KB50X45	1400,000	2250,000	DCON1	3,855	BH	3,821	BH
M2D1	KB50X45	2250,000	2250,000	DCON1	3,845	BH	3,821	BH
M2D2	KB50X45	650,000	2250,000	DCON1	2,986	BH	2,970	BH
M2D2	KB50X45	1650,000	2250,000	DCON1	2,986	BH	2,970	BH
M2D2	KB50X45	2850,000	2250,000	DCON1	2,985	BH	2,970	BH
M2D3	KB50X45	650,000	2250,000	DCON1	2,270	BH	2,251	BH
M2D3	KB50X45	2000,000	2250,000	DCON1	2,270	BH	2,251	BH
M2D3	KB50X45	3650,000	2250,000	DCON1	2,270	BH	2,251	BH
M2D4	KB50X45	650,000	2250,000	DCON1	2,181	BH	2,163	BH
M2D4	KB50X45	1000,000	2250,000	DCON1	2,181	BH	2,163	BH
M2D4	KB50X45	3650,000	2250,000	DCON1	2,181	BH	2,160	BH
M2D5	KB50X45	650,000	2250,000	DCON1	2,498	BH	2,478	BH
M2D5	KB50X45	2000,000	2250,000	DCON1	2,510	BH	2,489	BH
M2D5	KB50X45	3650,000	2250,000	DCON1	2,521	BH	2,500	BH
M2D6	KB50X45	650,000	2250,000	DCON1	2,158	DCON2	3,648	DCON2
M2D6	KB50X45	1580,000	2250,000	DCON1	2,182	DCON2	2,666	DCON2
M2D6	KB50X45	3650,000	2250,000	DCON1	2,196	DCON2	2,688	DCON2
M2D7	KB50X45	650,000	2250,000	DCON1	0,000	DCON2	0,000	DCON1
M2D7	KB50X45	900,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
M2D7	KB50X45	1900,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
M2D8	KB50X45	650,000	2250,000	DCON1	3,446	DCON5	3,591	DCON1
M2D8	KB50X45	1400,000	2250,000	DCON1	3,448	DCON5	3,593	DCON1
M2D8	KB50X45	2450,000	2250,000	DCON1	3,448	DCON5	3,594	DCON1
M2D9	KB50X45	650,000	2250,000	DCON1	2,148	DCON1	2,343	DCON2
M2D9	KB50X45	1650,000	2250,000	DCON1	2,147	DCON1	2,343	DCON2
M2D9	KB50X45	3650,000	2250,000	DCON1	2,146	DCON1	2,342	DCON2
M2F1	KB50X45	650,000	2250,000	DCON1	3,898	BH	3,864	BH
M2F1	KB50X45	1800,000	2250,000	DCON1	3,898	BH	3,864	BH
M2F1	KB50X45	3650,000	2250,000	DCON1	3,898	BH	3,864	BH
M2F2	KB50X45	650,000	2250,000	DCON1	3,029	BH	3,009	BH
M2F2	KB50X45	1650,000	2250,000	DCON1	3,029	BH	3,009	BH
M2F2	KB50X45	3650,000	2250,000	DCON1	3,029	BH	3,009	BH
M2F3	KB50X45	650,000	2250,000	DCON1	2,292	BH	2,273	BH
M2F3	KB50X45	2000,000	2250,000	DCON1	2,292	BH	2,273	BH
M2F3	KB50X45	3650,000	2250,000	DCON1	2,292	BH	2,273	BH
M2F4	KB50X45	650,000	2250,000	DCON1	2,203	BH	2,184	BH
M2F4	KB50X45	2000,000	2250,000	DCON1	2,203	BH	2,184	BH
M2F4	KB50X45	3650,000	2250,000	DCON1	2,202	BH	2,184	BH
M2F5	KB50X45	650,000	2250,000	DCON5	2,532	DCON10	2,511	DCON10
M2F5	KB50X45	2000,000	2250,000	DCON1	2,543	DCON10	2,521	DCON10
M2F5	KB50X45	3650,000	2250,000	DCON1	2,530	DCON2	2,509	DCON2
M2F6	KB50X45	650,000	2250,000	DCON1	2,179	DCON2	2,161	DCON2
M2F6	KB50X45	2050,000	2250,000	DCON1	2,162	DCON2	2,143	DCON2
M2F6	KB50X45	3650,000	2250,000	DCON1	2,144	DCON2	2,126	DCON2
M2F7	KB50X45	650,000	2250,000	DCON1	3,421	DCON4	3,597	DCON1
M2F7	KB50X45	1800,000	2250,000	DCON1	3,423	DCON5	3,595	DCON1
M2F7	KB50X45	3650,000	2250,000	DCON1	3,428	DCON5	3,594	DCON1
M2F8	KB50X45	650,000	2250,000	DCON1	2,161	DCON1	2,330	DCON1
M2F8	KB50X45	1650,000	2250,000	DCON1	2,151	DCON1	2,335	DCON2
M2F8	KB50X45	3650,000	2250,000	DCON1	2,150	DCON1	2,341	DCON2
M2F9	KB50X45	650,000	2250,000	DCON1	2,485	BH	2,468	BH

K2F9	KB50X45	3650,000	2250,000	DC0N1	2,486	BH	2,463	BH	
K2F9	KB50X45	3650,000	2250,000	DC0N1	2,486	BH	2,463	BH	
K2G1	KB50X45	350,000	2250,000	DC0N1	3,845	BH	3,812	BH	
K2G1	KB50X45	3350,000	2250,000	DC0N1	3,845	BH	3,812	BH	
K2G1	KB50X45	2350,000	2250,000	DC0N1	3,845	BH	3,812	BH	
K2G2	KB50X45	350,000	2250,000	DC0N1	2,997	BH	2,972	BH	
K2G2	KB50X45	1650,000	2250,000	DC0N1	2,997	BH	2,972	BH	
K2G2	KB50X45	2950,000	2250,000	DC0N1	2,997	BH	2,972	BH	
K2G3	KB50X45	350,000	2250,000	DC0N1	2,278	BH	2,266	BH	
K2G3	KB50X45	2000,000	2250,000	DC0N1	2,278	BH	2,266	BH	
K2G3	KB50X45	3650,000	2250,000	DC0N1	2,278	BH	2,266	BH	
K2G4	KB50X45	350,000	2250,000	DC0N1	2,193	BH	2,175	BH	
K2G4	KB50X45	2000,000	2250,000	DC0N1	2,193	BH	2,175	BH	
K2G4	KB50X45	3650,000	2250,000	DC0N1	2,193	BH	2,175	BH	
K2G5	KB50X45	350,000	2250,000	DC0N1	2,537	DC0N10	2,515	DC0N10	
K2G5	KB50X45	2000,000	2250,000	DC0N1	2,537	DC0N8	2,515	DC0N8	
K2G5	KB50X45	3650,000	2250,000	DC0N1	2,540	DC0N8	2,518	DC0N8	
K2G6	KB50X45	350,000	2250,000	DC0N1	2,141	DC0N2	2,122	DC0N2	
K2G6	KB50X45	1950,000	2250,000	DC0N1	2,158	DC0N2	2,140	DC0N2	
K2G6	KB50X45	3650,000	2250,000	DC0N1	2,177	DC0N1	2,158	DC0N1	
K2G7	KB50X45	350,000	2250,000	DC0N1	3,409	DC0N1	3,554	DC0N1	
K2G7	KB50X45	1900,000	2250,000	DC0N1	3,407	DC0N1	3,565	DC0N2	
K2G7	KB50X45	2950,000	2250,000	DC0N1	3,405	DC0N1	3,563	DC0N2	
K2G8	KB50X45	350,000	2250,000	DC0N1	3,156	BH	3,129	BH	
K2G8	KB50X45	1650,000	2250,000	DC0N1	3,156	BH	3,129	BH	
K2G8	KB50X45	2950,000	2250,000	DC0N1	3,156	BH	3,129	BH	
K2G9	KB50X45	350,000	2250,000	DC0N1	2,384	BH	2,363	BH	
K2G9	KB50X45	2000,000	2250,000	DC0N1	2,384	BH	2,363	BH	
K2G9	KB50X45	3650,000	2250,000	DC0N1	2,384	BH	2,363	BH	
K2H1	KB50X45	350,000	2250,000	DC0N1	3,844	BH	3,811	BH	
K2H1	KB50X45	1900,000	2250,000	DC0N1	3,844	BH	3,811	BH	
K2H1	KB50X45	2950,000	2250,000	DC0N1	3,844	BH	3,811	BH	
K2H2	KB50X45	350,000	2250,000	DC0N1	2,997	BH	2,971	BH	
K2H2	KB50X45	1650,000	2250,000	DC0N1	2,997	BH	2,971	BH	
K2H2	KB50X45	2950,000	2250,000	DC0N1	2,997	BH	2,971	BH	
K2H3	KB50X45	350,000	2250,000	DC0N1	2,277	BH	2,258	BH	
K2H3	KB50X45	2000,000	2250,000	DC0N1	2,277	BH	2,258	BH	
K2H3	KB50X45	3650,000	2250,000	DC0N1	2,277	BH	2,258	BH	
K2H4	KB50X45	350,000	2250,000	DC0N1	2,193	BH	2,174	BH	
K2H4	KB50X45	2000,000	2250,000	DC0N1	2,193	BH	2,174	BH	
K2H4	KB50X45	3650,000	2250,000	DC0N1	2,193	BH	2,174	BH	
K2H5	KB50X45	350,000	2250,000	DC0N1	2,513	BH	2,492	BH	
K2H5	KB50X45	2000,000	2250,000	DC0N1	2,524	BH	2,502	BH	
K2H5	KB50X45	3650,000	2250,000	DC0N1	2,536	BH	2,514	BH	
K2H6	KB50X45	350,000	2250,000	DC0N1	2,142	DC0N2	2,124	DC0N2	
K2H6	KB50X45	1950,000	2250,000	DC0N1	2,159	DC0N2	2,141	DC0N2	
K2H6	KB50X45	3650,000	2250,000	DC0N1	2,178	DC0N1	2,159	DC0N1	
K2H7	KB50X45	350,000	2250,000	DC0N1	3,401	DC0N1	3,576	DC0N2	
K2H7	KB50X45	1900,000	2250,000	DC0N1	3,398	DC0N1	3,582	DC0N2	
K2H7	KB50X45	2950,000	2250,000	DC0N1	3,396	DC0N1	3,587	DC0N2	
K2H8	KB50X45	350,000	2250,000	DC0N1	3,156	BH	3,129	BH	
K2H8	KB50X45	1650,000	2250,000	DC0N1	3,156	BH	3,129	BH	
K2H8	KB50X45	2950,000	2250,000	DC0N1	3,156	BH	3,129	BH	
K2H9	KB50X45	350,000	2250,000	DC0N1	2,384	BH	2,363	BH	
K2H9	KB50X45	2000,000	2250,000	DC0N1	2,384	BH	2,363	BH	
K2H9	KB50X45	3650,000	2250,000	DC0N1	2,384	BH	2,363	BH	
K2I2	KB50X45	350,000	2250,000	DC0N1	3,898	BH	3,864	BH	
K2I2	KB50X45	1900,000	2250,000	DC0N1	3,898	BH	3,864	BH	
K2I2	KB50X45	2350,000	2250,000	DC0N1	3,898	BH	3,864	BH	
K2I3	KB50X45	350,000	2250,000	DC0N1	3,029	BH	3,003	BH	
K2I3	KB50X45	1650,000	2250,000	DC0N1	3,029	BH	3,003	BH	
K2I3	KB50X45	2950,000	2250,000	DC0N1	3,029	BH	3,003	BH	
K2I4	KB50X45	350,000	2250,000	DC0N1	2,293	BH	2,273	BH	
K2I4	KB50X45	2000,000	2250,000	DC0N1	2,293	BH	2,273	BH	
K2I4	KB50X45	3650,000	2250,000	DC0N1	2,293	BH	2,273	BH	
K2I5	KB50X45	350,000	2250,000	DC0N1	2,203	BH	2,185	BH	
K2I5	KB50X45	2000,000	2250,000	DC0N1	2,203	BH	2,185	BH	
K2I5	KB50X45	3650,000	2250,000	DC0N1	2,203	BH	2,185	BH	

K2L6	KB600X45	950,000	2250,000	D600N1	3,513	BH	3,492	BH
K2L6	KB500X45	1000,000	2250,000	D500N1	3,514	BH	3,503	BH
K2L6	KB400X45	3650,000	2250,000	D400N1	3,505	BH	3,514	BH
K2L7	KB600X45	950,000	2250,000	D600N1	3,170	D600N2	3,158	D600N2
K2L7	KB500X45	2050,000	2250,000	D500N1	3,160	D500N2	3,141	D500N2
K2L7	KB400X45	3650,000	2250,000	D400N1	3,142	D400N2	3,124	D400N2
K2L8	KB600X45	950,000	2250,000	D600N1	3,494	D600N3	3,490	D600N3
K2L8	KB500X45	1500,000	2250,000	D500N1	3,484	D500N3	3,481	D500N3
K2L8	KB400X45	2350,000	2250,000	D400N1	3,486	D400N3	3,490	D400N3
K2L9	KB600X45	950,000	2250,000	D600N1	3,150	D600N1	3,142	D600N1
K2L9	KB500X45	1650,000	2250,000	D500N1	3,148	D500N1	3,144	D500N1
K2L9	KB400X45	2950,000	2250,000	D400N1	3,143	D400N1	3,148	D400N1
K2M1	KB600X45	950,000	2250,000	D600N1	3,850	BH	3,837	BH
K2M1	KB500X45	1300,000	2250,000	D500N1	3,850	BH	3,822	BH
K2M1	KB400X45	2350,000	2250,000	D400N1	3,850	BH	3,820	BH
K2M2	KB600X45	950,000	2250,000	D600N1	3,987	BH	3,983	BH
K2M2	KB500X45	1650,000	2250,000	D500N1	3,987	BH	3,971	BH
K2M2	KB400X45	2950,000	2250,000	D400N1	3,990	BH	3,971	BH
K2M3	KB600X45	950,000	2250,000	D600N1	3,771	BH	3,767	BH
K2M3	KB500X45	1000,000	2250,000	D500N1	3,771	BH	3,250	BH
K2M3	KB400X45	3650,000	2250,000	D400N1	3,871	BH	3,872	BH
K2M4	KB600X45	950,000	2250,000	D600N1	3,183	BH	3,164	BH
K2M4	KB500X45	2000,000	2250,000	D500N1	3,183	BH	3,164	BH
K2M4	KB400X45	3650,000	2250,000	D400N1	3,183	BH	3,164	BH
K2M5	KB600X45	950,000	2250,000	D600N1	3,494	BH	3,479	BH
K2M5	KB500X45	2000,000	2250,000	D500N1	3,511	BH	3,490	BH
K2M5	KB400X45	3650,000	2250,000	D400N1	3,511	BH	3,501	BH
K2M6	KB600X45	950,000	2250,000	D600N1	3,158	D600N2	3,686	D600N2
K2M6	KB500X45	1650,000	2250,000	D500N1	3,172	D500N2	3,653	D500N2
K2M6	KB400X45	2950,000	2250,000	D400N1	3,186	D400N2	3,670	D400N2
K2M7	KB600X45	950,000	2250,000	D600N1	3,000	D600N1	3,000	D600N1
K2M7	KB500X45	970,000	2250,000	D500N1	3,000	D500N1	3,000	D500N1
K2M7	KB400X45	980,000	2250,000	D400N1	3,000	D400N1	3,000	D400N1
K2M8	KB600X45	950,000	2250,000	D600N1	3,448	D600N1	3,586	D600N1
K2M8	KB500X45	1000,000	2250,000	D500N1	3,446	D500N1	3,585	D500N1
K2M8	KB400X45	2350,000	2250,000	D400N1	3,444	D400N1	3,582	D400N1
K2M9	KB600X45	950,000	2250,000	D600N1	3,145	D600N1	3,340	D600N1
K2M9	KB500X45	1650,000	2250,000	D500N1	3,145	D500N1	3,340	D500N1
K2M9	KB400X45	2950,000	2250,000	D400N1	3,145	D400N1	3,341	D400N1
K2O1	KB600X45	950,000	2250,000	D600N1	3,358	BH	3,330	BH
K2O1	KB500X45	1300,000	2250,000	D500N1	3,352	BH	3,330	BH
K2O1	KB400X45	2350,000	2250,000	D400N1	3,358	BH	3,330	BH
K2O2	KB600X45	950,000	2250,000	D600N1	3,189	D600N3	3,168	D600N3
K2O2	KB500X45	1650,000	2250,000	D500N1	3,200	D500N3	3,173	D500N3
K2O2	KB400X45	2950,000	2250,000	D400N1	3,210	D400N3	3,186	D400N3
K2O3	KB600X45	950,000	2250,000	D600N1	3,440	D600N3	3,419	D600N3
K2O3	KB500X45	2000,000	2250,000	D500N1	3,463	D500N3	3,432	D500N3
K2O3	KB400X45	3650,000	2250,000	D400N1	3,466	D400N3	3,445	D400N3
K2O4	KB600X45	950,000	2250,000	D600N1	3,476	D600N2	3,441	D600N2
K2O4	KB500X45	2000,000	2250,000	D500N1	3,498	D500N2	3,448	D500N2
K2O4	KB400X45	3650,000	2250,000	D400N1	3,502	D400N2	3,482	D400N2
K2O5	KB600X45	950,000	2250,000	D600N1	3,000	D600N2	2,970	D600N2
K2O5	KB500X45	2000,000	2250,000	D500N1	3,037	D500N2	3,018	D500N2
K2O5	KB400X45	3650,000	2250,000	D400N1	3,055	D400N2	3,036	D400N2
K2O6	KB600X45	950,000	2250,000	D600N1	3,778	BH	3,745	BH
K2O6	KB500X45	1300,000	2250,000	D500N1	3,778	BH	3,745	BH
K2O6	KB400X45	2350,000	2250,000	D400N1	3,778	BH	3,745	BH
K2O7	KB600X45	950,000	2250,000	D600N1	3,946	BH	3,921	BH
K2O7	KB500X45	1650,000	2250,000	D500N1	3,946	BH	3,921	BH
K2O7	KB400X45	2350,000	2250,000	D400N1	3,946	BH	3,921	BH
K2O8	KB600X45	950,000	2250,000	D600N1	3,238	BH	3,219	BH
K2O8	KB500X45	2000,000	2250,000	D500N1	3,238	BH	3,219	BH
K2O8	KB400X45	3650,000	2250,000	D400N1	3,238	BH	3,219	BH
K2O9	KB600X45	950,000	2250,000	D600N1	3,165	BH	3,140	BH
K2O9	KB500X45	2000,000	2250,000	D500N1	3,165	BH	3,147	BH
K2O9	KB400X45	3650,000	2250,000	D400N1	3,165	BH	3,147	BH
K2P1	KB600X45	950,000	2250,000	D600N1	3,980	D600N5	3,958	D600N5
K2P1	KB500X45	1300,000	2250,000	D500N1	3,975	D500N5	3,942	D500N5
K2P1	KB400X45	2350,000	2250,000	D400N1	3,968	D400N5	3,930	D400N5

M2P0	MB45X45	850,000	2250,000	DCON1	3,140	DCON5	3,134	DCON5
M2P1	MB50X45	1650,000	2250,000	DCON1	3,172	DCON5	3,147	DCON5
M2P2	MB50X45	2950,000	2250,000	DCON1	3,184	DCON5	3,158	DCON5
M2P0	MB45X45	850,000	2250,000	DCON1	2,524	DCON4	2,506	DCON4
M2P1	MB50X45	2000,000	2250,000	DCON1	2,538	DCON4	2,512	DCON4
M2P2	MB50X45	3450,000	2250,000	DCON1	2,469	DCON5	2,448	DCON5
M2P4	MB50X45	850,000	2250,000	DCON1	2,527	DCON7	2,506	DCON7
M2P4	MB50X45	2050,000	2250,000	DCON1	2,537	DCON7	2,516	DCON7
M2P4	MB50X45	3450,000	2250,000	DCON1	2,491	EH	2,471	EH
M2P5	MB45X45	850,000	2250,000	DCON1	2,375	DCON1	2,355	DCON1
M2P4	MB50X45	2000,000	2250,000	DCON1	2,395	DCON1	2,375	DCON1
M2P5	MB50X45	3450,000	2250,000	DCON1	2,416	DCON1	2,394	DCON1
M2P6	MB50X45	850,000	2250,000	DCON1	2,565	DCON1	2,534	DCON1
M2P5	MB50X45	1990,000	2250,000	DCON1	2,575	DCON1	2,554	DCON1
M2P6	MB50X45	2950,000	2250,000	DCON1	2,595	DCON1	2,574	DCON1
M2P7	MB50X45	850,000	2250,000	DCON1	3,494	EH	3,466	EH
M2P7	MB50X45	1300,000	2250,000	DCON1	3,494	EH	3,465	EH
M2P7	MB50X45	2350,000	2250,000	DCON1	3,494	EH	3,465	EH
M2P8	MB50X45	850,000	2250,000	DCON1	2,770	EH	2,747	EH
M2P8	MB50X45	1650,000	2250,000	DCON1	2,770	EH	2,747	EH
M2P8	MB50X45	2950,000	2250,000	DCON1	2,770	EH	2,747	EH
M2P9	MB50X45	850,000	2250,000	DCON1	2,140	EH	2,122	EH
M2P9	MB50X45	2000,000	2250,000	DCON1	2,140	EH	2,122	EH
M2P9	MB50X45	3450,000	2250,000	DCON1	2,140	EH	2,122	EH
M3A1	3MB45X45	850,000	2025,000	DCON1	2,849	EH	2,849	EH
M3A1	3MB45X45	1350,000	2025,000	DCON1	2,849	EH	2,849	EH
M3A1	3MB45X45	2450,000	2025,000	DCON1	2,849	EH	2,849	EH
M3A2	3MB45X45	750,000	2025,000	DCON1	2,239	EH	2,239	EH
M3A2	3MB45X45	1650,000	2025,000	DCON1	2,239	EH	2,239	EH
M3A2	3MB45X45	3050,000	2025,000	DCON1	2,239	EH	2,239	EH
M3A3	3MB45X45	750,000	2025,000	DCON1	1,656	DCON9	1,656	DCON9
M3A3	3MB45X45	2500,000	2025,000	DCON1	1,675	DCON9	1,675	DCON9
M3A3	3MB45X45	4750,000	2025,000	DCON1	1,371	EH	1,371	EH
M3A4	3MB45X45	750,000	2025,000	DCON1	2,148	DCON10	2,148	DCON10
M3A4	3MB45X45	2000,000	2025,000	DCON1	2,145	DCON8	2,145	DCON8
M3A4	3MB45X45	3450,000	2025,000	DCON1	2,156	DCON8	2,156	DCON8
M3A5	3MB45X45	750,000	2025,000	DCON1	2,237	DCON1	2,237	DCON1
M3A5	3MB45X45	1750,000	2025,000	DCON1	2,236	DCON1	2,236	DCON1
M3A5	3MB45X45	3350,000	2025,000	DCON1	2,254	DCON1	2,254	DCON1
M3A6	3MB45X45	750,000	2025,000	DCON1	2,531	DCON1	2,531	DCON1
M3A6	3MB45X45	1405,000	2025,000	DCON1	2,550	DCON1	2,550	DCON1
M3A6	3MB45X45	2510,000	2025,000	DCON1	2,568	DCON1	2,568	DCON1
M3A7	3MB45X45	850,000	2025,000	DCON1	2,849	EH	2,849	EH
M3A7	3MB45X45	1350,000	2025,000	DCON1	2,849	EH	2,849	EH
M3A7	3MB45X45	2450,000	2025,000	DCON1	2,849	EH	2,849	EH
M3A8	3MB45X45	850,000	2025,000	DCON1	2,238	EH	2,238	EH
M3A8	3MB45X45	1650,000	2025,000	DCON1	2,238	EH	2,238	EH
M3A8	3MB45X45	3050,000	2025,000	DCON1	2,238	EH	2,238	EH
M3A9	3MB45X45	850,000	2025,000	DCON1	1,666	DCON9	1,666	DCON9
M3A9	3MB45X45	2500,000	2025,000	DCON1	1,675	DCON9	1,676	DCON9
M3A9	3MB45X45	4750,000	2025,000	DCON1	1,371	EH	1,371	EH
M3I1	3MB45X45	850,000	2025,000	DCON1	3,124	EH	3,124	EH
M3I1	3MB45X45	1300,000	2025,000	DCON1	3,124	EH	3,124	EH
M3I1	3MB45X45	2350,000	2025,000	DCON1	3,124	EH	3,124	EH
M3I2	3MB45X45	850,000	3177,199	DCON4	3,594	EH	3,594	EH
M3I2	3MB45X45	1650,000	2025,000	DCON1	3,604	EH	3,604	EH
M3I2	3MB45X45	2950,000	3846,465	DCON4	3,614	EH	3,614	EH
M3I3	3MB45X45	850,000	2025,000	DCON1	3,138	EH	3,138	EH
M3I3	3MB45X45	1400,000	2025,000	DCON1	3,138	EH	3,138	EH
M3I3	3MB45X45	2450,000	2025,000	DCON1	3,139	EH	3,138	EH
M3I4	3MB45X45	850,000	2025,000	DCON1	3,834	EH	3,834	EH
M3I4	3MB45X45	1650,000	2025,000	DCON1	3,824	EH	3,824	EH
M3I4	3MB45X45	2950,000	3145,326	DCON8	3,388	DCON5	3,388	DCON5
M4C1	4MB30X30	700,000	900,000	DCON1	0,594	DCON7	1,445	DCON7
M4C1	4MB30X30	1350,000	900,000	DCON1	0,592	DCON7	1,441	DCON7
M4C1	4MB30X30	2500,000	900,000	DCON1	0,590	DCON7	1,437	DCON7
M4C2	4MB30X30	700,000	900,000	DCON1	0,589	DCON7	1,198	DCON7
M4C2	4MB30X30	1650,000	900,000	DCON1	0,587	DCON7	1,193	DCON7

K4C2	4KB30X30	250,000	900,000	DCON1	0,829	DCON5	0,829	DCON5
K4C3	4KB30X30	2000,000	900,000	DCON1	0,834	DCON5	0,834	DCON5
K4C4	4KB30X30	250,000	900,000	DCON1	0,829	DCON5	0,829	DCON5
K4C4	4KB30X30	2000,000	900,000	DCON1	0,834	DCON5	0,834	DCON5
K4C5	4KB30X30	250,000	900,000	DCON1	0,849	DCON4	0,849	DCON4
K4C5	4KB30X30	2000,000	900,000	DCON1	0,854	DCON4	0,854	DCON4
K4D1	4KB30X30	200,000	900,000	DCON1	1,101	DCON5	1,101	DCON5
K4D1	4KB30X30	1650,000	900,000	DCON1	1,027	DCON5	1,027	DCON5
K4D2	4KB30X30	200,000	900,000	DCON1	1,110	DCON5	1,110	DCON5
K4D2	4KB30X30	1650,000	900,000	DCON1	1,105	DCON5	1,105	DCON5
K4D3	4KB30X30	250,000	900,000	DCON1	0,909	DCON5	0,909	DCON5
K4D3	4KB30X30	2025,000	900,000	DCON1	0,919	DCON5	0,919	DCON5
K4D4	4KB30X30	250,000	900,000	DCON1	0,953	DCON6	0,953	DCON6
K4D4	4KB30X30	2000,000	900,000	DCON1	0,958	DCON6	0,958	DCON6
K4D5	4KB30X30	250,000	900,000	DCON1	0,873	DCON6	0,873	DCON6
K4D5	4KB30X30	2000,000	900,000	DCON1	0,878	DCON6	0,878	DCON6
K4E1	4KB30X30	250,000	900,000	DCON1	3,789	DCON2	3,789	DCON2
K4E1	4KB30X30	625,000	900,000	DCON1	3,782	DCON2	3,782	DCON2
K4E2	4KB30X30	200,000	900,000	DCON1	3,768	DCON2	3,768	DCON2
K4E2	4KB30X30	575,000	900,000	DCON1	3,775	DCON2	3,775	DCON2
K4F1	4KB30X30	250,000	926,351	DCON5	4,026	DCON2	4,026	DCON2
K4F1	4KB30X30	625,000	900,000	DCON1	4,019	DCON2	4,019	DCON2
K4F2	4KB30X30	200,000	900,000	DCON1	4,026	DCON2	4,026	DCON2
K4F2	4KB30X30	575,000	900,000	DCON1	4,033	DCON2	4,033	DCON2
K4G1	4KB30X30	200,000	900,000	DCON1	4,098	DCON2	4,098	DCON2
K4G1	4KB30X30	575,000	900,000	DCON1	4,105	DCON2	4,105	DCON2
K4G2	4KB30X30	200,000	900,000	DCON1	3,963	DCON2	3,963	DCON2
K4G2	4KB30X30	575,000	900,000	DCON1	3,970	DCON2	3,970	DCON2
K4H1	4KB30X30	200,000	900,000	DCON1	0,000	DCON1	0,000	DCON1
K4H1	4KB30X30	575,000	900,000	DCON1	0,000	DCON1	0,000	DCON1
K4H2	4KB30X30	200,000	900,000	DCON1	3,648	DCON10	3,648	DCON10
K4H2	4KB30X30	575,000	900,000	DCON1	3,654	DCON10	3,654	DCON10
K4H3	4KB30X30	200,000	900,000	DCON1	3,626	DCON9	3,626	DCON9
K4H3	4KB30X30	575,000	900,000	DCON1	3,631	DCON9	3,631	DCON9
K4H4	4KB30X30	200,000	900,000	DCON1	0,252	DCON2	0,000	DCON1
K4H4	4KB30X30	575,000	900,000	DCON1	0,262	DCON2	0,000	DCON1
K4J1	4KB30X30	200,000	900,000	DCON1	0,000	DCON1	0,000	DCON1
K4J1	4KB30X30	575,000	900,000	DCON1	0,000	DCON1	0,000	DCON1
K4J2	4KB30X30	250,000	900,000	DCON1	3,664	DCON10	3,664	DCON10
K4J2	4KB30X30	625,000	900,000	DCON1	3,658	DCON10	3,658	DCON10
K4J3	4KB30X30	200,000	900,000	DCON1	3,607	EH	3,607	EH
K4J3	4KB30X30	575,000	900,000	DCON1	3,607	EH	3,607	EH
K4J4	4KB30X30	200,000	900,000	DCON1	0,261	DCON2	0,000	DCON1
K4J4	4KB30X30	575,000	900,000	DCON1	0,260	DCON2	0,000	DCON1
K4K1	4KB30X30	250,000	954,571	DCON5	4,068	DCON2	4,068	DCON2

K4P1	4PB30X30	625,000	900,000	D00N1	4,041	D00N2	4,061	D00N2
K4K1	4KB30X30	1000,000	900,000	D00N1	4,054	D00N2	4,064	D00N2
K4K2	4KB30X30	700,000	900,000	D00N1	3,964	D00N2	3,964	D00N2
K4K3	4KB30X30	875,000	900,000	D00N1	3,971	D00N2	3,971	D00N2
K4K4	4KB30X30	950,000	900,000	D00N1	3,978	D00N2	3,978	D00N2
K4L1	4KB30X30	140,000	900,000	D00N2	4,026	D00N2	4,026	D00N2
K4L1	4KB30X30	875,000	900,000	D00N1	4,019	D00N2	4,019	D00N2
K4L1	4KB30X30	1000,000	900,000	D00N1	4,010	D00N2	4,010	D00N2
K4L2	4KB30X30	140,000	900,000	D00N1	4,026	D00N2	4,026	D00N2
K4L2	4KB30X30	875,000	900,000	D00N1	4,019	D00N2	4,019	D00N2
K4L2	4KB30X30	950,000	900,000	D00N1	4,040	D00N2	4,040	D00N2
K4M1	4KB30X30	250,000	900,000	D00N1	3,908	D00N2	3,908	D00N2
K4M1	4KB30X30	875,000	900,000	D00N1	3,901	D00N2	3,901	D00N2
K4M1	4KB30X30	1000,000	900,000	D00N1	3,894	D00N2	3,894	D00N2
K4N1	4KB30X30	200,000	900,000	D00N1	0,776	D00N3	0,796	D00N3
K4N1	4KB30X30	875,000	900,000	D00N1	0,783	D00N3	0,783	D00N3
K4N1	4KB30X30	950,000	900,000	D00N1	0,790	D00N3	0,790	D00N3
K4N1	4KB30X30	200,000	900,000	D00N1	0,851	D00N5	1,090	D00N5
K4N1	4KB30X30	1250,000	900,000	D00N1	0,845	D00N5	1,085	D00N5
K4N1	4KB30X30	2500,000	900,000	D00N1	0,840	D00N5	1,080	D00N5
K4N2	4KB30X30	200,000	900,000	D00N1	0,560	D00N5	1,085	D00N5
K4N2	4KB30X30	1250,000	900,000	D00N1	0,589	D00N5	1,080	D00N5
K4N2	4KB30X30	3100,000	900,000	D00N1	0,557	D00N5	1,075	D00N5
K4N3	4KB30X30	250,000	900,000	D00N1	0,906	D00N5	0,906	D00N5
K4N3	4KB30X30	3025,000	900,000	D00N1	0,911	D00N5	0,911	D00N5
K4N3	4KB30X30	3800,000	900,000	D00N1	0,916	D00N5	0,916	D00N5
K4N4	4KB30X30	250,000	900,000	D00N1	0,943	D00N5	0,943	D00N5
K4N4	4KB30X30	3100,000	900,000	D00N1	0,948	D00N5	0,948	D00N5
K4N4	4KB30X30	3750,000	900,000	D00N1	0,953	D00N5	0,953	D00N5
K4N5	4KB30X30	250,000	900,000	D00N1	0,861	D00N5	0,865	D00N5
K4N5	4KB30X30	3100,000	900,000	D00N1	0,872	D00N5	0,872	D00N5
K4N5	4KB30X30	3750,000	900,000	D00N1	0,877	D00N5	0,877	D00N5
K401	4KB30X30	200,000	900,000	D00N1	0,550	D00N8	1,436	D00N8
K401	4KB30X30	1250,000	900,000	D00N1	0,580	D00N8	1,431	D00N8
K401	4KB30X30	3100,000	900,000	D00N1	0,586	D00N8	1,426	D00N8
K402	4KB30X30	200,000	900,000	D00N1	0,585	D00N8	1,130	D00N8
K402	4KB30X30	1250,000	900,000	D00N1	0,585	D00N8	1,126	D00N8
K402	4KB30X30	3100,000	900,000	D00N1	0,591	D00N8	1,121	D00N8
K403	4KB30X30	250,000	900,000	D00N1	0,918	D00N8	0,918	D00N8
K403	4KB30X30	3025,000	900,000	D00N1	0,922	D00N8	0,922	D00N8
K403	4KB30X30	3800,000	900,000	D00N1	0,927	D00N8	0,927	D00N8
K404	4KB30X30	250,000	900,000	D00N1	0,959	D00N6	0,959	D00N6
K404	4KB30X30	3025,000	900,000	D00N1	0,964	D00N6	0,964	D00N6
K404	4KB30X30	3750,000	1007,815	D00N6	0,965	D00N6	0,969	D00N6
K405	4KB30X30	250,000	900,000	D00N1	0,846	D00N6	0,846	D00N6
K405	4KB30X30	3025,000	900,000	D00N1	0,852	D00N6	0,852	D00N6
K405	4KB30X30	3750,000	900,000	D00N1	0,859	D00N6	0,859	D00N6
K5A1	K30X25	250,000	750,000	D00N1	1,194	D00N7	1,200	D00N7
K5A1	K30X25	1850,000	750,000	D00N1	1,204	D00N7	1,205	D00N7
K5A1	K30X25	2500,000	750,000	D00N1	1,241	D00N7	1,207	D00N7
K5A2	K30X25	200,000	750,000	D00N1	0,975	D00N6	0,960	D00N6
K5A2	K30X25	1650,000	750,000	D00N1	0,983	D00N6	0,965	D00N6
K5A2	K30X25	3100,000	750,000	D00N1	0,989	D00N6	0,960	D00N6
K5A3	K30X25	250,000	750,000	D00N1	0,801	D00N3	0,779	D00N3
K5A3	K30X25	2025,000	750,000	D00N1	0,805	D00N3	0,783	D00N3
K5A3	K30X25	3800,000	750,000	D00N1	0,810	D00N3	0,787	D00N3
K5A4	K30X25	250,000	750,000	D00N1	0,808	EM	0,796	EM
K5A4	K30X25	2000,000	750,000	D00N1	0,812	EM	0,788	EM
K5A4	K30X25	3750,000	750,000	D00N1	0,816	EM	0,780	EM
K5A5	K30X25	250,000	750,000	D00N1	0,787	D00N5	0,768	D00N5
K5A5	K30X25	2000,000	750,000	D00N1	0,792	D00N5	0,777	D00N5
K5A5	K30X25	3750,000	750,000	D00N1	0,797	D00N5	0,775	D00N5
K5A6	K30X25	250,000	750,000	D00N1	0,687	D00N5	0,675	D00N5
K5A6	K30X25	2150,000	750,000	D00N1	0,692	D00N5	0,680	D00N5
K5A6	K30X25	3750,000	750,000	D00N1	0,697	D00N5	0,685	D00N5
K5A7	K30X25	350,000	750,000	D00N1	1,000	D00N4	1,011	D00N4
K5A7	K30X25	1650,000	750,000	D00N1	1,038	D00N4	1,015	D00N4
K5A7	K30X25	2950,000	750,000	D00N1	1,040	D00N4	1,019	D00N4

K5B1	K30X25	1500,000	750,000	DCON1	1,216	BH	1,184	BH
K5B1	K30X25	1960,000	750,000	DCON1	1,216	BH	1,189	BH
K5B1	K30X25	2450,000	750,000	DCON1	1,214	BH	1,187	BH
K5B2	K30X25	1500,000	750,000	DCON1	1,150	BH	1,120	BH
K5B2	K30X25	1880,000	750,000	DCON1	1,150	BH	1,128	BH
K5B2	K30X25	2500,000	750,000	DCON1	1,152	BH	1,128	BH
K5B3	K30X25	1500,000	750,000	DCON1	0,953	BH	0,911	BH
K5B3	K30X25	1650,000	750,000	DCON1	0,928	BH	0,911	BH
K5B3	K30X25	2050,000	750,000	DCON1	0,928	BH	0,911	BH
K5B4	K30X25	1500,000	750,000	DCON1	0,904	BH	0,886	BH
K5B4	K30X25	1650,000	750,000	DCON1	0,904	BH	0,886	BH
K5B4	K30X25	3100,000	750,000	DCON1	0,904	BH	0,886	BH
K5B5	K30X25	1500,000	750,000	DCON1	0,722	BH	0,711	BH
K5B5	K30X25	2000,000	750,000	DCON1	0,722	BH	0,711	BH
K5B5	K30X25	3750,000	750,000	DCON1	0,722	BH	0,711	BH
K5B6	K30X25	1500,000	750,000	DCON1	0,733	BH	0,719	BH
K5B6	K30X25	2035,000	750,000	DCON1	0,733	BH	0,719	BH
K5B6	K30X25	3800,000	750,000	DCON1	0,733	BH	0,719	BH
K5B7	K30X25	1500,000	750,000	DCON1	0,704	BH	0,692	BH
K5B7	K30X25	2000,000	750,000	DCON1	0,704	BH	0,692	BH
K5B7	K30X25	3750,000	750,000	DCON1	0,704	BH	0,692	BH
K5B8	K30X25	1500,000	750,000	DCON1	0,805	DCON10	0,801	DCON10
K5B8	K30X25	2000,000	750,000	DCON1	0,722	BH	0,711	BH
K5B8	K30X25	3750,000	750,000	DCON1	0,722	BH	0,711	BH
K5B9	K30X25	1500,000	750,000	DCON1	0,803	DCON5	0,799	DCON5
K5B9	K30X25	2000,000	750,000	DCON1	0,815	BH	0,792	BH
K5B9	K30X25	3750,000	750,000	DCON1	0,819	BH	0,796	BH
K5D1	K30X25	1500,000	750,000	DCON1	1,248	DCON7	1,208	DCON7
K5D1	K30X25	1650,000	750,000	DCON1	1,247	DCON7	1,212	DCON7
K5D1	K30X25	2500,000	750,000	DCON1	1,251	DCON7	1,215	DCON7
K5D2	K30X25	1500,000	750,000	DCON1	0,977	DCON5	0,946	DCON5
K5D2	K30X25	1650,000	750,000	DCON1	0,977	DCON5	0,950	DCON5
K5D2	K30X25	3100,000	750,000	DCON1	0,981	DCON5	0,954	DCON5
K5D3	K30X25	1500,000	750,000	DCON1	1,216	DCON3	1,184	DCON3
K5D3	K30X25	1650,000	750,000	DCON1	1,220	DCON3	1,186	DCON3
K5D3	K30X25	2500,000	750,000	DCON1	1,225	DCON3	1,192	DCON3
K5D2	K30X25	1500,000	750,000	DCON1	0,965	DCON5	0,946	DCON5
K5D2	K30X25	1650,000	750,000	DCON1	0,970	DCON5	0,947	DCON5
K5D2	K30X25	3100,000	750,000	DCON1	0,974	DCON5	0,951	DCON5
K5G1	K30X25	1500,000	750,000	DCON1	1,181	BH	1,154	BH
K5G1	K30X25	1650,000	750,000	DCON1	1,181	BH	1,154	BH
K5G1	K30X25	2500,000	750,000	DCON1	1,181	BH	1,154	BH
K5G2	K30X25	1500,000	750,000	DCON1	0,922	BH	0,907	BH
K5G2	K30X25	1650,000	750,000	DCON1	0,928	DCON10	0,907	DCON10
K5G2	K30X25	3100,000	750,000	DCON1	0,932	DCON10	0,911	DCON10
K5G3	K30X25	1500,000	750,000	DCON1	0,777	DCON10	0,758	DCON10
K5G3	K30X25	2035,000	750,000	DCON1	0,781	DCON10	0,761	DCON10
K5G3	K30X25	3800,000	750,000	DCON1	0,789	DCON10	0,765	DCON10
K5G4	K30X25	1500,000	750,000	DCON1	0,784	DCON10	0,769	DCON10
K5G4	K30X25	2000,000	750,000	DCON1	0,793	DCON10	0,773	DCON10
K5G4	K30X25	3750,000	750,000	DCON1	0,797	DCON10	0,776	DCON10
K5G5	K30X25	1500,000	750,000	DCON1	0,820	DCON6	0,796	DCON6
K5G5	K30X25	2000,000	750,000	DCON1	0,824	DCON6	0,800	DCON6
K5G5	K30X25	3750,000	750,000	DCON1	0,825	BH	0,801	BH
K5G6	K30X25	1500,000	750,000	DCON1	0,790	DCON2	0,762	DCON2
K5G6	K30X25	2000,000	750,000	DCON1	0,786	DCON2	0,767	DCON2
K5G6	K30X25	3750,000	750,000	DCON1	0,791	DCON2	0,771	DCON2
K5H1	K30X25	1500,000	750,000	DCON1	1,181	BH	1,154	BH
K5H1	K30X25	1650,000	750,000	DCON1	1,181	BH	1,154	BH
K5H1	K30X25	2500,000	750,000	DCON1	1,181	BH	1,154	BH
K5H2	K30X25	1500,000	750,000	DCON10	0,961	BH	0,930	BH
K5H2	K30X25	1650,000	750,000	DCON1	0,961	BH	0,930	BH
K5H2	K30X25	3100,000	750,000	DCON1	0,961	BH	0,930	BH
K5H3	K30X25	1500,000	750,000	DCON1	0,751	BH	0,735	BH
K5H3	K30X25	2035,000	750,000	DCON1	0,751	BH	0,735	BH
K5H3	K30X25	3800,000	750,000	DCON1	0,755	DCON10	0,739	DCON10
K5H4	K30X25	1500,000	750,000	DCON1	0,805	DCON10	0,784	DCON10
K5H4	K30X25	2000,000	750,000	DCON1	0,810	DCON10	0,788	DCON10
K5H4	K30X25	3750,000	750,000	DCON1	0,814	DCON10	0,791	DCON10

K5H6	K30X25	250,000	750,000	DCON1	0,813	DCON5	0,794	DCON6
K5H6	K30X25	2050,000	750,000	DCON1	0,821	DCON5	0,798	DCON6
K5H6	K30X25	3750,000	750,000	DCON1	0,806	DCON5	0,802	DCON6
K5H8	K30X25	250,000	750,000	DCON1	0,754	DCON2	0,748	DCON2
K5H8	K30X25	2000,000	750,000	DCON1	0,769	DCON2	0,752	DCON2
K5H8	K30X25	3750,000	750,000	DCON1	0,775	DCON2	0,757	DCON2
K5P1	K30X25	250,000	750,000	DCON1	1,161	EH	1,154	EH
K5P1	K30X25	1950,000	750,000	DCON1	1,161	EH	1,154	EH
K5P1	K30X25	3600,000	750,000	DCON1	1,161	EH	1,154	EH
K5P2	K30X25	200,000	750,000	DCON1	0,920	EH	0,902	EH
K5P2	K30X25	1650,000	750,000	DCON1	0,907	EH	0,907	EH
K5P2	K30X25	3100,000	750,000	DCON1	0,986	DCON10	0,800	DCON10
K5P3	K30X25	250,000	750,000	DCON1	0,795	DCON10	0,767	DCON10
K5P3	K30X25	2025,000	750,000	DCON1	0,780	DCON10	0,760	DCON10
K5P3	K30X25	3800,000	750,000	DCON1	0,784	DCON10	0,764	DCON10
K5P4	K30X25	250,000	750,000	DCON1	0,788	DCON10	0,768	DCON10
K5P4	K30X25	2000,000	750,000	DCON1	0,798	DCON10	0,702	DCON10
K5P4	K30X25	3750,000	750,000	DCON1	0,796	DCON10	0,776	DCON10
K5P5	K30X25	250,000	750,000	DCON1	0,834	DCON5	0,850	DCON5
K5P5	K30X25	2000,000	750,000	DCON1	0,826	EH	0,801	EH
K5P5	K30X25	3750,000	750,000	DCON1	0,817	DCON7	0,794	DCON7
K5P6	K30X25	250,000	750,000	DCON1	0,777	DCON2	0,769	DCON2
K5P6	K30X25	2000,000	750,000	DCON1	0,780	DCON2	0,764	DCON2
K5P6	K30X25	3750,000	750,000	DCON1	0,788	DCON2	0,769	DCON2
K5N1	K30X25	200,000	750,000	DCON1	1,251	DCON4	1,215	DCON4
K5N1	K30X25	1350,000	750,000	DCON1	1,255	DCON3	1,218	DCON3
K5N1	K30X25	2500,000	750,000	DCON1	1,207	DCON4	1,176	DCON4
K5N2	K30X25	200,000	938,454	DCON5	0,965	DCON5	0,959	DCON5
K5N2	K30X25	1650,000	750,000	DCON1	0,967	DCON5	0,963	DCON5
K5N2	K30X25	3100,000	750,000	DCON1	0,991	DCON5	0,987	DCON5
K5O1	K30X25	200,000	750,000	DCON1	1,251	EH	1,215	EH
K5O1	K30X25	1350,000	750,000	DCON1	1,256	EH	1,219	EH
K5O1	K30X25	2500,000	750,000	DCON1	1,237	DCON5	1,200	DCON5
K5O2	K30X25	200,000	938,454	DCON5	0,979	DCON5	0,962	DCON5
K5O2	K30X25	1650,000	750,000	DCON1	0,984	DCON5	0,956	DCON5
K5O2	K30X25	3100,000	750,000	DCON1	0,989	DCON5	0,960	DCON5
K5P1	K30X25	200,000	750,000	DCON1	1,254	DCON6	1,217	DCON6
K5P1	K30X25	1350,000	750,000	DCON1	1,134	EH	1,113	EH
K5P1	K30X25	2500,000	750,000	DCON1	1,134	EH	1,113	EH
K5P2	K30X25	200,000	750,000	DCON1	0,977	DCON6	0,950	DCON6
K5P2	K30X25	1650,000	750,000	DCON1	0,981	DCON6	0,954	DCON6
K5P2	K30X25	3100,000	750,000	DCON1	0,985	DCON6	0,958	DCON6
K5P3	K30X25	250,000	750,000	DCON1	0,790	DCON6	0,769	DCON6
K5P3	K30X25	2025,000	750,000	DCON1	0,795	DCON6	0,773	DCON6
K5P3	K30X25	3800,000	750,000	DCON1	0,799	DCON6	0,777	DCON6
K5P4	K30X25	250,000	750,000	DCON1	0,793	DCON6	0,773	DCON6
K5P4	K30X25	2000,000	750,000	DCON1	0,797	DCON6	0,777	DCON6
K5P4	K30X25	3750,000	750,000	DCON1	0,801	DCON6	0,781	DCON6
K5P5	K30X25	250,000	750,000	DCON1	0,813	DCON3	0,790	DCON3
K5P5	K30X25	2000,000	750,000	DCON1	0,818	DCON1	0,795	DCON1
K5P5	K30X25	3750,000	750,000	DCON1	0,824	DCON1	0,800	DCON1
K5P6	K30X25	250,000	750,000	DCON1	0,738	DCON2	0,715	DCON2
K5P6	K30X25	2000,000	750,000	DCON1	0,743	DCON2	0,730	DCON2
K5P6	K30X25	3750,000	750,000	DCON1	0,749	DCON2	0,734	DCON2
K6H1	6K30X50	250,000	1500,000	DCON1	2,304	DCON4	1,399	DCON4
K6H1	6K30X50	1300,000	1500,000	DCON1	2,308	DCON4	1,397	DCON4
K6H1	6K30X50	2350,000	1500,000	DCON1	2,307	DCON4	1,396	DCON4
K6H2	6K30X50	250,000	1500,000	DCON1	2,043	EH	2,136	EH
K6H2	6K30X50	1650,000	1500,000	DCON1	2,043	EH	2,136	EH
K6H2	6K30X50	2950,000	1500,000	DCON1	2,043	EH	2,136	EH
K6H3	6K30X50	250,000	1500,000	DCON1	1,519	EH	1,598	EH
K6H3	6K30X50	2000,000	1500,000	DCON1	1,518	EH	1,598	EH
K6H3	6K30X50	3650,000	1500,000	DCON1	1,518	EH	1,598	EH
K6H4	6K30X50	250,000	1500,000	DCON1	0,115	DCON3	1,892	DCON3
K6H4	6K30X50	450,000	1500,000	DCON1	0,115	DCON3	1,892	DCON3
K6H4	6K30X50	650,000	1500,000	DCON1	0,114	DCON3	1,891	DCON3
K6H5	6K30X50	350,000	1500,000	DCON1	2,096	EH	2,631	EH
K6H5	6K30X50	1550,000	1500,000	DCON1	2,096	EH	2,631	EH

K6H5	6K30X50	250,000	2567,384	DCON4	0,046	BH	3,681	BH	
K6H6	6K30X50	250,000	2106,845	DCON4	0,000	DCON1	1,707	DCON5	
K6H6	6K30X50	450,000	1747,486	DCON4	0,000	DCON1	1,707	DCON5	
K6H6	6K30X50	650,000	1401,000	DCON1	0,000	DCON1	1,706	DCON5	
K6H7	6K30X50	250,000	1600,000	DCON1	0,934	DCON2	2,363	DCON2	
K6H7	6K30X50	1550,000	1600,000	DCON1	0,927	DCON2	2,373	DCON2	
K6H7	6K30X50	2750,000	1600,000	DCON5	0,931	DCON2	2,364	DCON2	
K6H8	6K30X50	250,000	1600,000	DCON1	0,786	DCON1	1,778	DCON1	
K6H8	6K30X50	1550,000	1600,000	DCON1	0,781	DCON1	1,790	DCON1	
K6H8	6K30X50	2750,000	1600,000	DCON1	0,786	DCON1	1,807	DCON1	
K6H9	6K30X50	250,000	1500,000	DCON1	0,000	DCON1	0,000	DCON1	
K6H9	6K30X50	370,000	1500,000	DCON1	0,000	DCON1	0,000	DCON1	
K6H9	6K30X50	490,000	1500,000	DCON1	0,000	DCON1	0,000	DCON1	
K6J1	6K30X50	250,000	1500,000	DCON1	3,908	DCON2	1,398	DCON6	
K6J1	6K30X50	1300,000	1500,000	DCON1	3,906	DCON2	1,397	DCON6	
K6J1	6K30X50	2350,000	1500,000	DCON1	3,907	DCON2	1,395	DCON6	
K6J2	6K30X50	250,000	1500,000	DCON1	2,043	BH	2,136	BH	
K6J2	6K30X50	1550,000	1500,000	DCON1	2,043	BH	2,136	BH	
K6J2	6K30X50	2750,000	1500,000	DCON1	2,047	BH	2,136	BH	
K6J3	6K30X50	250,000	1500,000	DCON1	1,518	BH	1,598	BH	
K6J3	6K30X50	2000,000	1500,000	DCON1	1,516	BH	1,598	BH	
K6J3	6K30X50	3650,000	1500,000	DCON1	1,518	BH	1,598	BH	
K6J4	6K30X50	250,000	1500,000	DCON1	0,047	DCON8	1,465	DCON5	
K6J4	6K30X50	450,000	1500,000	DCON1	0,046	DCON8	1,464	DCON5	
K6J4	6K30X50	650,000	1500,000	DCON1	0,046	DCON8	1,463	DCON5	
K6J5	6K30X50	250,000	1500,000	DCON1	1,973	BH	2,542	BH	
K6J5	6K30X50	1550,000	1500,000	DCON1	1,973	BH	2,542	BH	
K6J5	6K30X50	2750,000	2466,178	DCON1	1,973	BH	2,542	BH	
K6J6	6K30X50	250,000	2163,291	DCON8	0,000	DCON1	1,699	DCON5	
K6J6	6K30X50	450,000	1700,129	DCON8	0,000	DCON1	1,698	DCON5	
K6J6	6K30X50	650,000	1500,000	DCON1	0,000	DCON1	1,697	DCON5	
K6J7	6K30X50	250,000	1500,000	DCON1	0,925	DCON2	2,365	DCON2	
K6J7	6K30X50	1550,000	1500,000	DCON1	0,868	DCON2	2,376	DCON2	
K6J7	6K30X50	2750,000	1500,000	DCON1	0,930	DCON2	2,365	DCON2	
K6J8	6K30X50	250,000	1500,000	DCON1	0,786	DCON1	1,778	DCON1	
K6J8	6K30X50	1550,000	1500,000	DCON1	0,792	DCON1	1,790	DCON1	
K6J8	6K30X50	2750,000	1500,000	DCON1	0,786	DCON1	1,802	DCON1	
K6J9	6K30X50	250,000	1500,000	DCON1	0,000	DCON1	0,000	DCON1	
K6J9	6K30X50	370,000	1500,000	DCON1	0,000	DCON1	0,000	DCON1	
K6J9	6K30X50	490,000	1500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1H10	1K50X50	150,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1H10	1K50X50	320,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1H10	1K50X50	490,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1H11	1K50X50	250,000	2500,000	DCON1	3,986	BH	3,986	BH	
K1H11	1K50X50	1300,000	2500,000	DCON1	3,986	BH	3,986	BH	
K1H11	1K50X50	2350,000	2500,000	DCON1	3,986	BH	3,986	BH	
K1H12	1K50X50	350,000	2500,000	DCON1	3,276	BH	3,276	BH	
K1H12	1K50X50	1550,000	2500,000	DCON1	3,276	BH	3,276	BH	
K1H12	1K50X50	2750,000	2832,795	DCON7	3,276	BH	3,276	BH	
K1H13	1K50X50	350,000	4996,887	DCON3	4,159	BH	4,159	BH	
K1H13	1K50X50	2000,000	2500,000	DCON1	4,159	BH	4,159	BH	
K1H13	1K50X50	3650,000	4980,833	DCON3	4,159	BH	4,159	BH	
K1H14	1K50X50	350,000	3779,798	DCON3	3,216	BH	3,216	BH	
K1H14	1K50X50	2000,000	2500,000	DCON1	3,216	BH	3,216	BH	
K1H14	1K50X50	3650,000	3829,791	DCON3	3,216	BH	3,216	BH	
K1H15	1K50X50	350,000	2500,000	DCON1	2,793	DCON8	2,793	DCON8	
K1H15	1K50X50	2000,000	2500,000	DCON1	2,804	DCON8	2,804	DCON8	
K1H15	1K50X50	3650,000	2500,000	DCON1	2,785	DCON7	2,785	DCON7	
K1H16	1K50X50	250,000	2500,000	DCON1	2,558	DCON2	2,558	DCON2	
K1H16	1K50X50	1950,000	2500,000	DCON1	2,577	DCON2	2,577	DCON2	
K1H16	1K50X50	3650,000	2500,000	DCON1	2,596	DCON2	2,596	DCON2	
K1J10	1K50X50	150,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1J10	1K50X50	320,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1J10	1K50X50	490,000	2500,000	DCON1	0,000	DCON1	0,000	DCON1	
K1J11	1K50X50	250,000	2500,000	DCON1	3,986	BH	3,986	BH	
K1J11	1K50X50	1300,000	2500,000	DCON1	3,986	BH	3,986	BH	
K1J11	1K50X50	2350,000	2500,000	DCON1	3,986	BH	3,986	BH	
K1J12	1K50X50	350,000	2500,000	DCON1	3,947	BH	3,947	BH	

K1J12	1K50X60	1650,000	9400,000	DCON1	3,047	BH	3,047	BH	
K1J12	1K50X60	2950,000	3029,743	DCON8	3,047	BH	3,047	BH	
K1J13	1K50X60	950,000	9358,836	DCON4	4,407	BH	4,402	BH	
K1J13	1K50X60	2000,000	7660,000	DCON1	4,407	BH	4,407	BH	
K1J13	1K50X60	3650,000	5347,913	DCON4	4,407	BH	4,407	BH	
K1J14	1K50X60	950,000	8969,271	DCON4	3,358	BH	3,358	BH	
K1J14	1K50X60	2000,000	7691,000	DCON1	3,965	BH	3,953	BH	
K1J14	1K50X60	3650,000	7819,365	DCON4	3,985	BH	3,353	BH	
K1J15	1K50X60	950,000	8500,000	DCON1	2,784	DCON2	2,784	DCON2	
K1J15	1K50X60	2000,000	7500,000	DCON1	2,806	DCON2	2,806	DCON2	
K1J15	1K50X60	3650,000	8500,000	DCON1	2,785	DCON2	2,785	DCON2	
K1J16	1K50X60	950,000	8400,000	DCON1	2,548	DCON2	2,548	DCON2	
K1J16	1K50X60	1950,000	7500,000	DCON1	2,547	DCON2	2,547	DCON2	
K1J16	1K50X60	3650,000	8500,000	DCON1	2,587	DCON1	2,587	DCON1	
K2A10	KB60X45	950,000	2250,000	DCON1	2,489	DCON1	2,489	DCON1	
K2A10	KB60X45	2000,000	2250,000	DCON1	2,505	DCON1	2,485	DCON1	
K2A10	KB60X45	3650,000	2250,000	DCON1	2,521	DCON1	2,500	DCON1	
K2A11	KB60X45	200,000	2250,000	DCON1	2,556	DCON1	2,534	DCON1	
K2A11	KB60X45	1500,000	2250,000	DCON1	2,575	DCON1	2,554	DCON1	
K2A11	KB60X45	2950,000	2250,000	DCON1	2,595	DCON1	2,574	DCON1	
K2A12	KB60X45	200,000	2250,000	DCON1	2,686	DCON1	2,665	DCON1	
K2A12	KB60X45	1500,000	2250,000	DCON1	2,706	DCON1	2,685	DCON1	
K2A12	KB60X45	2950,000	2250,000	DCON1	2,727	DCON1	2,705	DCON1	
K2A13	KB60X45	150,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2A13	KB60X45	970,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2A13	KB60X45	490,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2C10	KB50X45	950,000	2250,000	DCON1	2,500	BH	2,480	BH	
K2C10	KB50X45	2000,000	2250,000	DCON1	2,511	BH	2,491	BH	
K2C10	KB50X45	3650,000	2250,000	DCON1	2,523	BH	2,502	BH	
K2C11	KB50X45	200,000	2250,000	DCON1	2,722	DCON2	2,699	DCON2	
K2C11	KB50X45	1500,000	2250,000	DCON1	2,740	DCON2	2,716	DCON2	
K2C11	KB50X45	2950,000	2250,000	DCON1	2,757	DCON2	2,733	DCON2	
K2C12	KB50X45	200,000	2250,000	DCON1	3,815	BH	3,792	BH	
K2C12	KB50X45	1500,000	2250,000	DCON1	3,838	BH	3,815	BH	
K2C12	KB50X45	2950,000	2250,000	DCON1	3,925	BH	3,792	BH	
K2C13	KB50X45	150,000	2250,000	DCON1	3,007	BH	2,981	BH	
K2C13	KB50X45	1450,000	2250,000	DCON1	3,007	BH	2,981	BH	
K2C13	KB50X45	2950,000	2250,000	DCON1	3,007	BH	2,981	BH	
K2C14	KB50X45	950,000	2250,000	DCON1	2,308	BH	2,284	BH	
K2C14	KB50X45	2000,000	2250,000	DCON1	2,308	BH	2,284	BH	
K2C14	KB50X45	3650,000	2250,000	DCON1	2,308	BH	2,284	BH	
K2C15	KB50X45	950,000	2250,000	DCON1	2,218	BH	2,200	BH	
K2C15	KB50X45	2000,000	2250,000	DCON1	2,218	BH	2,200	BH	
K2C15	KB50X45	3650,000	2250,000	DCON1	2,218	BH	2,200	BH	
K2C16	KB50X45	950,000	2250,000	DCON1	2,503	DCON10	2,482	DCON10	
K2C16	KB50X45	2000,000	2250,000	DCON1	2,513	DCON10	2,492	DCON10	
K2C16	KB50X45	3650,000	2250,000	DCON1	2,523	DCON10	2,502	DCON10	
K2C17	KB50X45	800,000	2250,000	DCON1	2,815	DCON2	2,791	DCON2	
K2C17	KB50X45	1540,000	2250,000	DCON1	2,837	DCON2	2,808	DCON2	
K2C17	KB50X45	2960,000	2250,000	DCON1	2,850	DCON2	2,825	DCON2	
K2C18	KB50X45	250,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2C18	KB50X45	970,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2C18	KB50X45	490,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2D10	KB50X45	950,000	2250,000	DCON1	2,492	BH	2,473	BH	
K2D10	KB50X45	2000,000	2250,000	DCON1	2,495	BH	2,473	BH	
K2D10	KB50X45	3650,000	2250,000	DCON1	2,498	BH	2,473	BH	
K2D11	KB50X45	950,000	2250,000	DCON1	2,354	BH	2,333	BH	
K2D11	KB50X45	2000,000	2250,000	DCON1	2,354	BH	2,333	BH	
K2D11	KB50X45	3650,000	2250,000	DCON1	2,554	BH	2,333	BH	
K2D12	KB50X45	950,000	2250,000	DCON1	2,213	BH	2,194	BH	
K2D12	KB50X45	2000,000	2250,000	DCON1	2,213	BH	2,194	BH	
K2D12	KB50X45	3650,000	2250,000	DCON1	2,213	BH	2,194	BH	
K2D25	KB60X45	200,000	2250,000	DCON1	3,019	DCON2	2,994	DCON2	
K2D25	KB60X45	1580,000	2250,000	DCON1	3,039	DCON2	3,007	DCON2	
K2D25	KB60X45	2960,000	2250,000	DCON1	2,996	DCON1	2,972	DCON1	
K2D27	KB50X45	250,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2D27	KB50X45	970,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	
K2D27	KB50X45	490,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1	

M2P10	MB50X45	350,000	2250,000	DCON1	2,339	BH	2,336	BH
M2P10	MB50X45	2000,000	2250,000	DCON1	2,339	BH	2,319	BH
M2P10	MB50X45	3650,000	2250,000	DCON1	2,339	BH	2,319	BH
M2P11	MB50X45	350,000	2250,000	DCON1	2,193	BH	2,175	BH
M2P11	MB50X45	2000,000	2250,000	DCON1	2,193	BH	2,175	BH
M2P11	MB50X45	3650,000	2250,000	DCON1	2,193	BH	2,175	BH
M2P12	MB50X45	350,000	2250,000	DCON1	2,038	DCON2	2,068	DCON2
M2P12	MB50X45	1950,000	2250,000	DCON1	2,205	DCON2	2,184	DCON2
M2P12	MB50X45	3650,000	2250,000	DCON1	2,221	DCON2	2,201	DCON2
M2Q10	MB50X45	350,000	2250,000	DCON1	2,349	BH	2,346	BH
M2Q10	MB50X45	2000,000	2250,000	DCON1	2,365	BH	2,344	BH
M2Q10	MB50X45	3650,000	2250,000	DCON1	2,365	BH	2,344	BH
M2Q11	MB50X45	350,000	2250,000	DCON1	2,168	BH	2,166	BH
M2Q11	MB50X45	2000,000	2250,000	DCON1	2,268	BH	2,248	BH
M2Q11	MB50X45	3650,000	2250,000	DCON1	2,268	BH	2,248	BH
M2Q12	MB50X45	350,000	2250,000	DCON1	2,179	DCON2	2,160	DCON2
M2Q12	MB50X45	1950,000	2250,000	DCON1	2,196	DCON2	2,177	DCON2
M2Q12	MB50X45	3650,000	2250,000	DCON1	2,213	DCON2	2,194	DCON2
M2R10	MB50X45	350,000	2250,000	DCON1	2,265	BH	2,246	BH
M2R10	MB50X45	2000,000	2250,000	DCON1	2,283	BH	2,246	BH
M2R10	MB50X45	3650,000	2250,000	DCON1	2,283	BH	2,246	BH
M2R11	MB50X45	350,000	2250,000	DCON1	2,540	DCON2	2,520	DCON2
M2R11	MB50X45	2000,000	2250,000	DCON1	2,548	DCON10	2,526	DCON10
M2R11	MB50X45	3650,000	2250,000	DCON1	2,159	BH	2,137	BH
M2R12	MB50X45	350,000	2250,000	DCON1	2,182	DCON2	2,164	DCON2
M2R12	MB50X45	1950,000	2250,000	DCON1	2,200	DCON2	2,181	DCON2
M2R12	MB50X45	3650,000	2250,000	DCON1	2,217	DCON2	2,198	DCON2
M2L10	MB50X45	350,000	2250,000	DCON1	2,484	BH	2,463	BH
M2L10	MB50X45	2000,000	2250,000	DCON1	2,485	BH	2,463	BH
M2L10	MB50X45	3650,000	2250,000	DCON1	2,485	BH	2,463	BH
M2L11	MB50X45	350,000	2250,000	DCON1	2,339	BH	2,319	BH
M2L11	MB50X45	2000,000	2250,000	DCON1	2,339	BH	2,319	BH
M2L11	MB50X45	3650,000	2250,000	DCON1	2,339	BH	2,319	BH
M2L12	MB50X45	350,000	2250,000	DCON1	2,194	BH	2,175	BH
M2L12	MB50X45	2000,000	2250,000	DCON1	2,194	BH	2,175	BH
M2L12	MB50X45	3650,000	2250,000	DCON1	2,194	BH	2,175	BH
M2L13	MB50X45	350,000	2250,000	DCON1	2,044	DCON2	2,024	DCON2
M2L13	MB50X45	1950,000	2250,000	DCON1	2,301	DCON2	2,281	DCON2
M2L13	MB50X45	3650,000	2250,000	DCON1	2,319	DCON2	2,298	DCON2
M2M10	MB50X45	350,000	2250,000	DCON1	2,499	BH	2,479	BH
M2M10	MB50X45	2000,000	2250,000	DCON1	2,499	BH	2,479	BH
M2M10	MB50X45	3650,000	2250,000	DCON1	2,499	BH	2,479	BH
M2M11	MB50X45	350,000	2250,000	DCON1	2,360	BH	2,340	BH
M2M11	MB50X45	2000,000	2250,000	DCON1	2,360	BH	2,340	BH
M2M11	MB50X45	3650,000	2250,000	DCON1	2,360	BH	2,340	BH
M2M12	MB50X45	350,000	2250,000	DCON1	2,217	BH	2,198	BH
M2M12	MB50X45	2000,000	2250,000	DCON1	2,217	BH	2,198	BH
M2M12	MB50X45	3650,000	2250,000	DCON1	2,217	BH	2,198	BH
M2M13	MB50X45	350,000	2250,000	DCON1	2,063	DCON2	2,043	DCON2
M2M13	MB50X45	1550,000	2250,000	DCON1	2,983	DCON1	2,960	DCON1
M2M13	MB50X45	2960,000	2250,000	DCON1	2,999	DCON1	2,978	DCON1
M2M14	MB50X45	350,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
M2M14	MB50X45	370,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
M2M14	MB50X45	490,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
M2O10	MB50X45	350,000	2250,000	DCON1	2,510	BH	2,490	BH
M2O10	MB50X45	2000,000	2250,000	DCON1	2,522	BH	2,501	BH
M2O10	MB50X45	3650,000	2250,000	DCON1	2,533	BH	2,512	BH
M2O11	MB50X45	900,000	2250,000	DCON1	2,717	DCON2	2,694	DCON2
M2O11	MB50X45	1550,000	2250,000	DCON1	2,734	DCON2	2,711	DCON2
M2O11	MB50X45	2960,000	2250,000	DCON1	2,751	DCON2	2,728	DCON2
M2O12	MB50X45	350,000	2250,000	DCON1	3,965	BH	3,937	BH
M2O12	MB50X45	1400,000	2250,000	DCON1	3,965	BH	3,937	BH
M2O12	MB50X45	2490,000	2250,000	DCON1	3,965	BH	3,932	BH
M2O13	MB50X45	350,000	2250,000	DCON1	3,118	BH	3,090	BH
M2O13	MB50X45	1650,000	2250,000	DCON1	3,118	BH	3,090	BH
M2O13	MB50X45	2550,000	2250,000	DCON1	3,118	BH	3,090	BH
M2O14	MB50X45	350,000	2250,000	DCON1	2,381	BH	2,360	BH
M2O14	MB50X45	2000,000	2250,000	DCON1	2,381	BH	2,360	BH
M2O14	MB50X45	3650,000	2250,000	DCON1	2,381	BH	2,360	BH

K2015	KB50X45	350,000	2240,000	DCON1	2,172	BH	2,152	BH
K2015	KB50X45	2000,000	2250,000	DCON1	0,172	BH	2,156	BH
K2015	KB50X45	3650,000	2260,000	DCON1	0,172	BH	2,252	BH
K2016	KB50X45	350,000	2240,000	DCON1	2,164	BH	2,148	BH
K2016	KB50X45	2000,000	2250,000	DCON1	0,164	BH	2,146	BH
K2016	KB50X45	3650,000	2260,000	DCON1	0,164	BH	2,148	BH
K2017	KB50X45	350,000	2250,000	DCON1	2,000	DCON2	0,885	DCON2
K2017	KB50X45	1580,000	2250,000	DCON1	2,325	DCON2	0,800	DCON2
K2017	KB50X45	2960,000	2260,000	DCON1	2,343	DCON2	0,917	DCON2
K2018	KB50X45	350,000	2240,000	DCON1	0,000	DCON1	0,000	DCON1
K2018	KB50X45	800,000	2250,000	DCON2	0,000	DCON1	0,000	DCON1
K2018	KB50X45	490,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
K2P10	KB50X45	350,000	2240,000	DCON1	2,455	DCON10	2,435	DCON10
K2P10	KB50X45	2000,000	2250,000	DCON1	2,469	DCON10	2,447	DCON10
K2P10	KB50X45	3650,000	2260,000	DCON1	2,481	DCON10	2,460	DCON10
K2P11	KB50X45	350,000	2240,000	DCON1	2,617	DCON2	2,495	DCON2
K2P11	KB50X45	2000,000	2250,000	DCON1	2,516	DCON2	2,605	DCON2
K2P11	KB50X45	3650,000	2250,000	DCON1	2,640	DCON2	2,518	DCON2
K2P12	KB50X45	350,000	2250,000	DCON1	2,653	DCON1	2,632	DCON1
K2P12	KB50X45	1580,000	2250,000	DCON1	2,659	DCON1	2,637	DCON1
K2P12	KB50X45	2960,000	2250,000	DCON1	2,680	DCON1	2,657	DCON1
K2P13	KB50X45	350,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
K2P13	KB50X45	870,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
K2P13	KB50X45	490,000	2250,000	DCON1	0,000	DCON1	0,000	DCON1
K3A10	3KB45X45	350,000	2025,000	DCON1	2,148	DCON10	2,148	DCON10
K3A10	3KB45X45	2000,000	2025,000	DCON1	2,145	DCON4	2,145	DCON4
K3A10	3KB45X45	3750,000	2025,000	DCON1	2,156	DCON4	2,156	DCON4
K3A11	3KB45X45	350,000	2025,000	DCON1	2,217	DCON1	2,217	DCON1
K3A11	3KB45X45	1725,000	2025,000	DCON1	2,235	DCON1	2,235	DCON1
K3A11	3KB45X45	3250,000	2025,000	DCON1	2,253	DCON1	2,253	DCON1
K3A12	3KB45X45	350,000	2025,000	DCON1	2,558	DCON1	2,558	DCON1
K3A12	3KB45X45	1405,000	2025,000	DCON1	2,549	DCON1	2,543	DCON1
K3A12	3KB45X45	2810,000	2025,000	DCON1	2,591	DCON1	2,531	DCON1
K5B10	K30X25	750,000	750,000	DCON1	0,865	BH	0,802	BH
K5B10	K30X25	2000,000	750,000	DCON1	0,815	DCON8	0,792	DCON8
K5B10	K30X25	3750,000	750,000	DCON1	0,819	DCON8	0,796	DCON8
K5B11	K30X25	750,000	750,000	DCON1	0,920	DCON1	0,902	DCON1
K5B11	K30X25	1630,000	750,000	DCON1	0,926	DCON1	0,907	DCON1
K5B11	K30X25	3050,000	750,000	DCON1	0,932	DCON1	0,913	DCON1
K5B12	K30X25	750,000	750,000	DCON1	0,753	DCON2	0,738	DCON2
K5B12	K30X25	2000,000	750,000	DCON1	0,758	DCON2	0,743	DCON2
K5B12	K30X25	3750,000	750,000	DCON1	0,764	DCON2	0,747	DCON2
K5J17	K30X25	350,000	750,000	DCON1	1,181	BH	1,154	BH
K5J17	K30X25	1350,000	750,000	DCON1	1,181	BH	1,154	BH
K5J17	K30X25	2500,000	750,000	DCON1	1,181	BH	1,154	BH
K5J18	K30X25	350,000	750,000	DCON1	0,955	BH	0,933	BH
K5J18	K30X25	1650,000	750,000	DCON1	0,955	BH	0,933	BH
K5J18	K30X25	3100,000	750,000	DCON1	0,955	BH	0,933	BH
K5J19	K30X25	350,000	750,000	DCON1	0,751	BH	0,736	BH
K5J19	K30X25	2025,000	750,000	DCON1	0,751	BH	0,736	BH
K5J19	K30X25	3800,000	750,000	DCON1	0,765	DCON10	0,739	DCON10
K5J20	K30X25	350,000	750,000	DCON1	0,807	DCON10	0,785	DCON10
K5J20	K30X25	2000,000	750,000	DCON1	0,811	DCON10	0,789	DCON10
K5J20	K30X25	3750,000	750,000	DCON1	0,815	DCON10	0,792	DCON10
K5J21	K30X25	350,000	750,000	DCON1	0,818	DCON6	0,795	DCON6
K5J21	K30X25	3000,000	750,000	DCON1	0,823	DCON6	0,799	DCON6
K5J21	K30X25	3750,000	750,000	DCON1	0,799	BH	0,776	BH
K5J22	K30X25	350,000	750,000	DCON1	0,767	DCON2	0,750	DCON2
K5J22	K30X25	2000,000	750,000	DCON1	0,772	DCON2	0,755	DCON2
K5J22	K30X25	3750,000	750,000	DCON1	0,777	DCON2	0,759	DCON2

BEAM ID	SECTION ID	STATION ID	REQUIRED REINFORCING TOP	COMBO	BOTTOM	COMBO	SHEAR	COMBO
1B1	BI30X60	225,000	158,164	DCON1	78,819	DCON1	0,112	EH
1B1	BI30X60	3600,000	88,340	DCON1	96,926	DCON1	0,112	EH
1B1	BI30X60	6975,000	158,164	DCON1	78,819	DCON1	0,112	EH
1B2	BI30X60	0,000	78,810	DCON1	16,643	DCON1	0,080	EH
1B2	BI30X60	2887,500	26,588	DCON1	65,247	DCON1	0,080	EH
1B2	BI30X60	4775,000	106,719	DCON1	53,237	DCON1	0,080	EH
1B3	BI30X60	0,000	35,310	DCON1	16,640	DCON1	0,060	EH
1B3	BI30X60	1887,500	24,588	DCON1	45,247	DCON1	0,060	EH
1B3	BI30X60	4775,000	106,719	DCON1	53,237	DCON1	0,080	EH
1B4	BI30X60	675,000	57,112	DCON1	28,571	DCON1	0,066	EH
1B4	BI30X60	2250,000	14,377	DCON1	34,979	DCON1	0,066	EH
1B4	BI30X60	4275,000	57,212	DCON1	28,571	DCON1	0,066	EH
1B5	BI30X60	225,000	57,212	DCON1	28,571	DCON1	0,066	EH
1B5	BI30X60	2250,000	14,377	DCON1	34,979	DCON1	0,066	EH
1B5	BI30X60	4275,000	57,212	DCON1	28,571	DCON1	0,066	EH
1B6	BI30X60	225,000	57,212	DCON1	28,571	DCON1	0,066	EH
1B6	BI30X60	2250,000	14,377	DCON1	34,979	DCON1	0,066	EH
1B6	BI30X60	4275,000	57,212	DCON1	28,571	DCON1	0,066	EH
1B7	BI30X60	225,000	54,820	DCON1	27,378	DCON1	0,065	EH
1B7	BI30X60	2362,500	14,377	DCON1	34,975	DCON1	0,065	EH
1B7	BI30X60	4275,000	57,212	DCON1	28,571	DCON1	0,065	EH
1B8	BI30X60	0,000	0,000	DCON1	31,491	DCON1	0,140	EH
1B8	BI30X60	675,000	25,262	DCON1	22,663	DCON1	0,140	EH
1B8	BI30X60	750,000	80,920	DCON1	45,371	DCON1	0,140	EH
1B9	BI30X60	225,000	71,206	DCON1	35,549	DCON1	0,714	DCON10
1B9	BI30X60	1800,000	17,761	DCON1	41,984	DCON1	0,139	DCON10
1B9	BI30X60	3600,000	0,000	DCON1	27,807	DCON1	0,156	DCON10
1C1	B25X40	250,000	9,600	DCON1	4,799	DCON1	0,028	EH
1C1	B25X40	1300,000	3,450	DCON1	10,385	DCON1	0,028	EH
1C1	B25X40	2350,000	13,811	DCON1	6,902	DCON1	0,028	EH
1C2	B25X40	250,000	9,600	DCON1	4,799	DCON1	0,028	EH
1C2	B25X40	1300,000	3,450	DCON1	10,385	DCON1	0,028	EH
1C2	B25X40	2350,000	13,811	DCON1	6,902	DCON1	0,028	EH
1C3	B25X40	250,000	9,600	DCON1	4,799	DCON1	0,028	EH
1C3	B25X40	1300,000	3,450	DCON1	10,385	DCON1	0,028	EH
1C3	B25X40	2350,000	13,811	DCON1	6,902	DCON1	0,028	EH
1C4	B25X40	250,000	9,600	DCON1	4,799	DCON1	0,028	EH
1C4	B25X40	1300,000	3,450	DCON1	10,385	DCON1	0,028	EH
1C4	B25X40	2350,000	13,811	DCON1	6,902	DCON1	0,028	EH
1C5	B25X40	250,000	12,733	DCON1	6,364	DCON1	0,032	EH
1C5	B25X40	1425,000	4,358	DCON1	12,578	DCON1	0,032	EH
1C5	B25X40	2600,000	17,448	DCON1	8,719	DCON1	0,032	EH
1C6	B25X40	150,000	17,448	DCON1	8,719	DCON1	0,033	EH
1C6	B25X40	1375,000	4,358	DCON1	12,578	DCON1	0,033	EH
1C6	B25X40	2600,000	17,448	DCON1	8,719	DCON1	0,033	EH
1C7	B25X40	250,000	12,733	DCON1	6,364	DCON1	0,032	EH
1C7	B25X40	1425,000	4,358	DCON1	12,578	DCON1	0,032	EH
1C7	B25X40	2600,000	17,448	DCON1	8,719	DCON1	0,032	EH
1C8	B25X40	150,000	17,448	DCON1	8,719	DCON1	0,032	EH
1C8	B25X40	1375,000	4,358	DCON1	12,578	DCON1	0,032	EH
1C8	B25X40	2600,000	12,733	DCON1	6,364	DCON1	0,032	EH
1C9	B25X40	150,000	17,448	DCON1	8,719	DCON1	0,032	EH
1C9	B25X40	1375,000	4,358	DCON1	12,578	DCON1	0,032	EH
1C9	B25X40	2500,000	12,733	DCON1	6,364	DCON1	0,032	EH
2A1	BI45X70	250,000	1011,807	DCON6	1006,666	DCON5	1,884	DCON2
2A1	BI45X70	1625,000	387,850	DCON6	658,126	DCON5	1,647	DCON2
2A1	BI45X70	3000,000	0,000	DCON1	304,765	DCON2	1,429	DCON2
2A2	BI45X70	250,000	1955,329	DCON6	1003,749	DCON2	2,390	EH
2A2	BI45X70	1625,000	803,397	DCON6	496,700	DCON2	2,174	EH
2A2	BI45X70	3000,000	0,000	DCON1	1053,448	DCON5	1,987	EH
2A3	BI45X70	250,000	1164,049	DCON6	1044,141	DCON6	2,582	EH
2A3	BI45X70	1625,000	409,236	DCON6	733,268	DCON6	2,365	EH
2A3	BI45X70	3000,000	0,000	DCON1	1230,823	DCON5	2,179	EH
2A4	BI45X70	250,000	1987,929	DCON6	1011,143	DCON6	2,360	EH
2A4	BI45X70	1625,000	858,691	DCON6	759,520	DCON5	2,134	EH
2A4	BI45X70	3000,000	0,000	DCON1	1142,436	DCON5	1,958	EH

2A5	B25X40	250,000	1150,176	DCON6	1011,148	DCON5	1,447	DCON2
2A5	BI45X70	1625,000	854,366	DCON6	809,778	DCON5	2,093	DCON2
2A5	BI45X70	9000,000	0,001	DCON1	894,567	DCON2	1,819	DCON1
2A6	B25X40	250,000	1481,380	DCON6	1011,148	DCON5	6,247	DCON2
2A6	BI45X70	1612,500	974,407	DCON6	947,301	DCON2	4,896	DCON1
2A6	BI45X70	9000,000	0,000	DCON1	1011,148	DCON2	4,591	DCON2
2A7	B25X40	250,000	1187,079	DCON6	1011,148	DCON5	2,458	DCON2
2A7	BI45X70	1618,000	559,164	DCON2	982,768	DCON2	2,896	DCON2
2A7	BI45X70	9000,000	0,000	DCON1	704,581	DCON2	1,732	DCON1
2A8	B25X40	240,000	1046,497	DCON6	1011,148	DCON5	1,364	BM
2A8	BI45X70	1625,000	966,705	DCON6	787,805	DCON5	2,148	BM
2A8	BI45X70	9000,000	0,000	DCON1	1145,821	DCON4	1,961	BM
2A9	B25X40	240,000	1145,451	DCON6	1050,513	DCON4	2,560	BM
2A9	BI45X70	1625,000	916,069	DCON5	704,989	DCON5	2,372	BM
2A9	BI45X70	9000,000	0,000	DCON1	1236,112	DCON5	2,186	BM
2B1	B25X40	250,000	1096,680	DCON6	935,144	DCON5	0,796	DCON1
2B1	BI30X50	3500,000	325,142	DCON3	215,143	DCON3	0,573	DCON2
2B1	BI30X50	6775,000	711,740	DCON4	524,224	DCON7	0,805	DCON1
2B2	B25X40	0,000	359,747	DCON6	746,598	DCON6	0,678	DCON1
2B2	BI30X50	2387,500	170,109	DCON5	170,408	DCON5	0,550	DCON1
2B2	BI30X50	4775,000	541,020	DCON6	474,147	DCON5	0,720	DCON1
2B3	B25X40	0,000	358,745	DCON5	748,817	DCON6	0,676	DCON1
2B3	BI30X50	2387,500	177,420	DCON6	170,550	DCON5	0,562	DCON1
2B3	BI30X50	4775,000	545,171	DCON5	474,147	DCON5	0,721	DCON1
2B4	B25X40	225,000	466,093	DCON2	591,160	DCON3	1,848	DCON2
2B4	BI30X50	2250,000	287,981	DCON2	245,693	DCON2	1,175	DCON1
2B4	BI30X50	4275,000	1023,370	DCON4	683,254	DCON7	1,896	DCON2
2B5	B25X40	225,000	979,476	DCON3	627,900	DCON3	1,754	DCON1
2B5	BI30X50	2250,000	181,915	DCON3	235,731	DCON3	1,081	BM
2B5	BI30X50	4275,000	877,189	DCON4	590,325	DCON7	1,758	DCON1
2B6	B25X40	225,000	851,286	DCON3	536,140	DCON3	1,758	DCON2
2B6	BI30X50	2250,000	176,853	DCON3	234,207	DCON3	1,062	DCON2
2B6	BI30X50	4275,000	896,135	DCON4	523,464	DCON7	1,706	DCON2
2B7	B25X40	250,000	894,543	DCON3	588,640	DCON3	1,800	DCON2
2B7	BI30X50	2262,500	298,790	DCON3	298,790	DCON3	1,126	DCON2
2B7	BI30X50	4275,000	918,586	DCON4	548,581	DCON7	1,845	DCON2
2B8	B25X40	0,000	474,147	DCON4	474,147	DCON3	1,648	DCON1
2B8	BI30X50	275,000	613,188	DCON4	551,475	DCON7	1,946	DCON1
2B8	BI30X50	750,000	846,961	DCON4	627,856	DCON7	1,808	DCON1
2B9	B25X40	225,000	873,018	DCON3	579,765	DCON3	1,818	DCON1
2B9	BI30X50	1862,500	279,868	DCON3	279,869	DCON3	1,416	DCON1
2B9	BI30X50	4800,000	474,147	DCON4	518,940	DCON3	1,531	DCON1
2C1	B25X40	250,000	350,707	DCON4	811,148	DCON4	1,085	DCON1
2C1	B25X40	1300,000	114,189	DCON5	114,189	DCON5	1,035	DCON2
2C1	B25X40	2350,000	311,148	DCON6	303,737	DCON5	0,981	DCON2
2C2	B25X40	250,000	542,447	DCON5	811,148	DCON5	1,511	DCON2
2C2	B25X40	1300,000	134,582	DCON2	174,771	DCON5	1,457	DCON2
2C2	B25X40	2350,000	335,541	DCON10	330,513	DCON5	1,403	DCON2
2C3	B25X40	250,000	562,403	DCON5	811,148	DCON5	1,543	DCON2
2C3	B25X40	1300,000	134,138	DCON1	177,345	DCON5	1,489	DCON2
2C3	B25X40	2350,000	331,282	DCON10	340,337	DCON5	1,434	DCON2
2C4	B25X40	250,000	364,040	DCON5	811,148	DCON6	1,133	DCON1
2C4	B25X40	1300,000	118,429	DCON5	118,429	DCON5	1,074	DCON2
2C4	B25X40	2350,000	317,611	DCON10	307,954	DCON5	1,010	DCON2
2C5	B25X40	0,000	396,395	DCON3	535,888	DCON3	1,085	BM
2C5	B25X40	2250,000	206,029	DCON2	311,148	DCON2	0,770	BM
2C5	B25X40	4600,000	511,490	DCON4	390,348	DCON4	1,247	BM
2C6	B25X40	0,000	466,841	DCON3	279,983	DCON2	0,929	DCON10
2C6	B25X40	2250,000	148,691	DCON2	311,148	DCON2	0,439	DCON10
2C6	B25X40	4600,000	406,877	DCON4	240,541	DCON2	0,905	DCON10
2C7	B25X40	0,000	894,918	DCON3	280,971	DCON2	0,901	DCON10
2C7	B25X40	2250,000	141,953	DCON2	311,148	DCON2	0,585	DCON10
2C7	B25X40	4500,000	476,397	DCON4	286,715	DCON2	0,934	DCON10
2C8	B25X40	0,000	837,744	DCON3	444,482	DCON3	1,366	BM
2C8	B25X40	2250,000	254,558	DCON2	277,344	DCON2	0,868	BM
2C8	B25X40	4500,000	311,149	DCON4	194,715	DCON4	1,042	BM
2C9	B25X40	0,000	935,765	DCON4	447,600	DCON4	1,461	BM
2C9	B25X40	2250,000	259,176	DCON2	311,148	DCON2	0,884	BM

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[illegible]	[illegible]	4500,000	789,179	DCON2	197,358	DCON5	1,543	[illegible]
3A1	BI45X70	250,000	1360,832	DCON4	1011,143	DCON5	2,560	DCON2
3A1	BI45X70	1625,000	431,475	DCON6	393,595	DCON5	2,171	DCON2
3A1	BI45X70	3000,000	0,000	DCON1	946,904	DCON5	1,510	EH
3A2	BI45X70	250,000	2127,935	DCON6	1079,716	DCON6	5,713	DCON2
3A2	BI45X70	1625,000	1011,143	DCLN6	757,638	DCON5	5,381	DCON2
3A2	BI45X70	3000,000	0,000	DCON1	1144,118	DCON5	4,061	DCON2
3A3	BI45X70	250,000	2450,657	DCON6	1168,808	DCON6	6,324	DCON2
3A3	BI45X70	1625,000	1011,143	DCON5	946,607	DCON5	5,982	DCON2
3A3	BI45X70	3000,000	0,000	DCON1	1309,718	DCON5	5,661	DCON2
3A4	BI45X70	250,000	2665,354	DCON6	1104,827	DCON6	6,610	DCON2
3A4	BI45X70	1625,000	1011,143	DCON6	1011,143	DCON5	6,102	DCON2
3A4	BI45X70	3000,000	0,000	DCON1	1444,439	DCON5	5,856	DCON2
3A5	BI45X70	250,000	1322,669	DCON6	1255,045	DCON3	2,814	DCON2
3A5	BI45X70	1625,000	696,082	DCON10	1011,143	DCON5	2,307	DCON2
3A5	BI45X70	3000,000	0,000	DCON1	441,408	DCON5	2,253	DCON1
3A6	BI45X70	0,000	0,000	DCON1	1011,143	DCON5	3,965	DCON2
3A6	BI45X70	1387,500	473,099	DCON2	473,099	DCON2	4,270	DCON2
3A6	BI45X70	3375,000	1481,384	DCON6	946,268	DCON5	4,690	DCON2
3A7	BI45X70	250,000	1332,171	DCON6	1168,723	DCON5	1,881	DCON2
3A7	BI45X70	1625,000	642,160	DCON10	1011,143	DCON5	1,304	DCON2
3A7	BI45X70	3000,000	0,000	DCON1	441,568	DCON5	2,784	DCON1
3A8	BI45X70	250,000	3470,654	DCON6	1191,688	DCON6	6,837	DCON2
3A8	BI45X70	1625,000	1011,143	DCON6	1011,143	DCON5	6,129	DCON2
3A8	BI45X70	3000,000	0,000	DCON1	1452,853	DCON5	5,688	DCON2
3A9	BI45X70	250,000	2501,782	DCON6	1206,112	DCON6	6,409	DCON2
3A9	BI45X70	1625,000	1011,143	DCON6	960,539	DCON5	6,047	DCON2
3A9	BI45X70	3000,000	0,000	DCON1	1380,037	DCON5	5,747	DCON2
3B1	BI30X50	225,000	1241,815	DCON4	615,191	DCON7	2,359	DCON2
3B1	BI30X50	1862,500	391,170	DCON4	518,589	DCON3	2,036	DCON2
3B1	BI30X50	3600,000	0,000	DCON1	474,147	DCON3	1,758	DCON2
3B2	BI30X50	225,000	1213,375	DCON3	635,128	DCON8	2,326	DCON2
3B2	BI30X50	1862,500	384,371	DCON3	538,770	DCON4	2,002	DCON2
3B2	BI30X50	3600,000	0,000	DCON1	474,147	DCON3	1,726	DCON2
3B3	BI30X50	0,000	474,147	DCON5	285,130	DCON5	1,197	DCON2
3B3	BI30X50	2587,500	173,656	DCON5	465,367	DCON5	0,701	DCON2
3B3	BI30X50	4975,000	288,618	DCON4	560,591	DCON3	1,147	DCON2
3B4	BI30X50	0,000	132,348	DCON5	261,191	DCON5	0,964	EH
3B4	BI30X50	2587,500	300,282	DCON2	315,096	DCON1	0,954	EH
3B4	BI30X50	4975,000	939,668	DCON7	474,147	DCON3	1,456	EH
3B5	BI30X50	0,000	474,147	DCON5	285,145	DCON5	1,196	DCON2
3B5	BI30X50	2587,500	173,796	DCON5	465,828	DCON5	0,700	DCON2
3B5	BI30X50	4975,000	589,155	DCON4	561,548	DCON3	1,150	DCON2
3B6	BI30X50	225,000	1077,326	DCON3	603,497	DCON8	2,170	DCON2
3B6	BI30X50	3250,000	342,051	DCON3	399,184	DCON4	1,511	DCON2
3B6	BI30X50	4975,000	1368,787	DCON3	904,836	DCON3	2,735	DCON2
3B7	BI30X50	225,000	1079,339	DCON3	737,297	DCON8	2,021	DCON2
3B7	BI30X50	2250,000	341,452	DCON3	341,461	DCON3	1,329	DCON1
3B7	BI30X50	4975,000	1084,978	DCON4	893,518	DCON3	2,050	DCON2
3B8	BI30X50	225,000	1080,110	DCON3	734,867	DCON8	2,069	DCON2
3B8	BI30X50	2250,000	342,089	DCON3	342,089	DCON3	1,330	DCON2
3B8	BI30X50	4975,000	1104,840	DCON4	748,478	DCON3	2,064	DCON2
3B9	BI30X50	250,000	1259,365	DCON3	890,240	DCON8	2,209	DCON2
3B9	BI30X50	2262,500	399,490	DCON3	399,490	DCON3	1,486	DCON2
3B9	BI30X50	4975,000	1158,611	DCON4	791,143	DCON3	2,196	DCON2
3E1	BI5X20	0,000	271,369	DCON1	129,954	DCON1	0,603	DCON1
3E1	BI5X20	1500,000	84,980	DCON1	104,941	DCON1	0,340	EH
3E1	BI5X20	3000,000	113,340	DCON1	73,601	DCON1	0,415	DCON1
3E2	BI5X20	0,000	270,586	DCON1	129,466	DCON1	0,602	DCON1
3E2	BI5X20	1500,000	84,568	DCON1	104,389	DCON1	0,340	EH
3E2	BI5X20	3000,000	113,249	DCON1	74,160	DCON1	0,416	DCON1
4A1	BI45X70	250,000	1362,712	DCON5	998,622	DCON5	2,493	DCON2
4A1	BI45X70	1625,000	410,064	DCON5	787,227	DCON5	2,250	DCON2
4A1	BI45X70	3000,000	0,000	DCON1	625,791	DCON2	2,038	DCON2
4A2	BI45X70	250,000	2247,516	DCON5	1087,857	DCON6	2,715	DCON10
4A2	BI45X70	1625,000	649,567	DCON6	815,814	DCON5	2,411	DCON10
4A2	BI45X70	3000,000	0,000	DCON1	1286,035	DCON5	2,184	DCON10
4A3	BI45X70	250,000	2445,508	DCON5	1190,027	DCON6	2,918	DCON10

4A2	BI45X70	1625,000	997,190	DC0N5	1011,140	DC0N5	2,614	DC0N10
4A3	BI45X70	3000,000	0,000	DC0N1	1590,300	DC0N5	2,337	DC0N10
4A4	BI45X70	250,000	2054,941	DC0N5	1011,140	DC0N5	2,422	EH
4A4	BI45X70	1625,000	896,583	DC0N5	1011,140	DC0N5	2,209	EH
4A4	BI45X70	3000,000	0,000	DC0N1	1262,214	DC0N5	2,020	EH
4A5	BI45X70	250,000	961,450	DC0N5	1011,140	DC0N5	1,984	DC0N2
4A5	BI45X70	1625,000	948,746	DC0N10	849,089	DC0N5	1,791	DC0N2
4A5	BI45X70	3000,000	0,000	DC0N1	957,096	DC0N2	1,709	DC0N1
4A6	BI45X70	250,000	949,880	DC0N6	1011,140	DC0N5	1,981	DC0N2
4A6	BI45X70	1625,000	971,115	DC0N10	851,868	DC0N5	1,817	DC0N2
4A6	BI45X70	3000,000	0,000	DC0N1	954,714	DC0N2	1,710	DC0N1
4A7	BI45X70	250,000	2066,884	DC0N6	1011,140	DC0N5	2,482	EH
4A7	BI45X70	1625,000	883,936	DC0N6	1011,140	DC0N5	2,217	EH
4A7	BI45X70	3000,000	0,000	DC0N1	1330,138	DC0N5	2,030	EH
4A8	BI45X70	250,000	2438,688	DC0N6	1174,542	DC0N5	2,882	DC0N10
4A8	BI45X70	1625,000	838,151	DC0N6	1011,140	DC0N5	2,628	DC0N10
4A8	BI45X70	3000,000	0,000	DC0N1	1538,092	DC0N5	2,301	DC0N10
4A9	BI45X70	250,000	2003,131	DC0N6	1011,140	DC0N5	2,349	EH
4A9	BI45X70	1625,000	858,635	DC0N6	860,484	DC0N5	2,134	EH
4A9	BI45X70	3000,000	0,000	DC0N1	1160,242	DC0N5	1,947	EH
4B1	B30X50	150,000	530,615	DC0N3	348,164	DC0N3	1,072	DC0N1
4B1	B30X50	2250,000	172,765	DC0N3	170,769	DC0N3	0,646	DC0N1
4B1	B30X50	4350,000	605,930	DC0N4	300,566	DC0N3	1,089	DC0N2
4B2	B30X50	150,000	535,308	DC0N4	351,255	DC0N4	1,076	DC0N1
4B2	B30X50	2250,000	194,806	DC0N3	194,805	DC0N3	0,699	DC0N1
4B2	B30X50	4350,000	600,082	DC0N3	392,970	DC0N3	1,091	DC0N2
4B3	B30X50	1200,000	688,777	DC0N5	194,968	DC0N5	1,593	DC0N1
4B3	B30X50	2250,000	800,593	DC0N5	393,701	DC0N5	1,597	DC0N2
4B4	B30X50	150,000	648,719	DC0N6	414,915	DC0N6	1,902	DC0N1
4B4	B30X50	1200,000	438,283	DC0N2	252,837	DC0N5	1,827	DC0N1
4B4	B30X50	2250,000	785,490	DC0N5	474,147	DC0N5	1,764	EH
4B5	B30X50	150,000	659,384	DC0N6	451,005	DC0N6	1,916	DC0N1
4B5	B30X50	1200,000	373,209	DC0N5	206,141	DC0N5	1,842	DC0N1
4B6	B30X50	150,000	579,162	DC0N6	373,517	DC0N6	1,744	DC0N1
4B6	B30X50	1200,000	189,944	DC0N5	207,300	DC0N5	1,607	DC0N1
4B6	B30X50	2250,000	699,720	DC0N5	418,411	DC0N5	1,685	DC0N2
4B7	BI30X50	225,000	1088,512	DC0N4	546,008	DC0N7	0,500	DC0N4
4B7	BI30X50	612,500	738,057	DC0N4	525,298	DC0N7	0,416	DC0N4
4B7	BI30X50	1000,000	474,147	DC0N4	601,406	DC0N3	0,313	DC0N4
4B8	BI30X50	225,000	1007,939	DC0N3	644,291	DC0N3	2,227	DC0N3
4B8	BI30X50	1862,500	619,560	DC0N3	393,906	DC0N4	1,666	DC0N1
4B8	BI30X50	3500,000	474,147	DC0N4	619,496	DC0N2	1,901	DC0N2
4B9	BI30X50	225,000	953,459	DC0N3	549,172	DC0N3	1,894	DC0N2
4B9	BI30X50	2250,000	304,638	DC0N3	323,589	DC0N4	1,140	DC0N2
4B9	BI30X50	4275,000	1016,522	DC0N4	592,810	DC0N7	1,964	DC0N2
4D1	B20X50	0,000	73,034	DC0N4	36,880	DC0N4	0,884	DC0N1
4D1	B20X50	500,000	127,357	DC0N4	87,470	DC0N4	1,081	DC0N1
4D1	B20X50	1000,000	232,463	DC0N4	119,389	DC0N4	1,278	DC0N1
4D2	B20X50	0,000	302,949	DC0N3	210,276	DC0N3	0,501	DC0N1
4D2	B20X50	2250,000	105,414	DC0N3	276,541	DC0N1	0,370	EH
4D2	B20X50	4500,000	384,865	DC0N4	219,990	DC0N4	0,494	DC0N1
4D3	B20X50	0,000	726,576	DC0N3	411,800	DC0N3	1,747	DC0N1
4D3	B20X50	500,000	117,696	DC0N3	55,710	DC0N3	1,080	DC0N1
4D3	B20X50	1000,000	66,803	DC0N1	33,330	DC0N1	0,853	DC0N1
4D4	B20X50	0,000	231,006	DC0N4	114,644	DC0N4	1,381	DC0N1
4D4	B20X50	500,000	120,164	DC0N4	67,112	DC0N4	1,083	DC0N1
4D4	B20X50	1000,000	65,821	DC0N1	32,840	DC0N1	0,835	DC0N1
4D5	B20X50	0,000	306,946	DC0N4	214,890	DC0N4	0,505	DC0N1
4D5	B20X50	2250,000	108,920	DC0N3	275,162	DC0N1	0,370	EH
4D5	B20X50	4500,000	381,055	DC0N3	218,172	DC0N3	0,490	DC0N1
4D6	B20X50	0,000	72,417	DC0N3	36,108	DC0N3	0,878	DC0N1
4D6	B20X50	500,000	126,417	DC0N3	87,208	DC0N3	1,075	DC0N1
4D6	B20X50	1000,000	231,399	DC0N3	114,838	DC0N3	1,272	DC0N1
4D7	B20X50	0,000	141,949	DC0N1	80,554	DC0N1	0,454	DC0N1
4D7	B20X50	500,000	80,931	DC0N1	40,174	DC0N1	0,757	DC0N1
4D7	B20X50	1000,000	76,184	DC0N4	36,000	DC0N4	0,672	DC0N1
4D8	B20X50	0,000	89,158	DC0N3	54,500	DC0N3	0,695	DC0N1
4D8	B20X50	500,000	88,818	DC0N6	42,095	DC0N4	0,603	DC0N1

4D8	B20X30	0,000	68,825	D20N4	94,037	D20N4	0,681	D20N1
4D9	B20X30	500,000	68,413	D20N5	41,585	D20N3	0,784	D20N1
4E1	B20X30	0,000	37,721	D20N1	18,820	D20N1	0,048	EH
4E1	B20X30	1920,738	10,112	D20N1	21,397	D20N1	0,048	EH
4E2	B20X30	0,000	37,770	D20N1	18,844	D20N1	0,048	EH
4E2	B20X30	3641,477	40,694	D20N1	19,180	D20N1	0,048	EH
4E3	B20X30	0,000	6,949	D20N4	4,199	D20N4	0,130	D20N2
4E3	B20X30	384,148	1,557	D20N4	6,371	D20N5	0,115	D20N1
4E3	B20X30	768,295	6,710	D20N3	14,314	D20N4	0,097	EH
4E4	B20X30	0,000	6,869	D20N4	19,166	D20N5	0,096	EH
4E4	B20X30	384,148	7,535	D20N3	2,295	D20N5	0,117	D20N2
4E4	B20X30	768,295	0,516	D20N3	4,161	D20N3	0,128	D20N1
4E5	B20X30	0,000	2,281	D20N5	1,141	D20N5	0,048	D20N1
4E5	B20X30	384,148	1,443	D20N3	7,588	D20N4	0,039	D20N2
4E5	B20X30	768,295	5,760	D20N3	1,880	D20N3	0,048	D20N1
4E6	B20X30	0,000	0,185	D20N6	1,842	D20N6	0,048	D20N1
4E6	B20X30	384,148	1,445	D20N4	7,535	D20N5	0,040	D20N2
4E6	B20X30	768,295	6,866	D20N4	2,855	D20N3	0,049	D20N1
4E7	B20X30	0,000	40,787	D20N1	20,846	D20N1	0,049	EH
4E7	B20X30	1920,738	10,164	D20N1	21,843	D20N1	0,042	EH
4E7	B20X30	3841,477	39,841	D20N1	19,876	D20N1	0,049	EH
4E8	B20X30	0,000	39,772	D20N1	19,841	D20N1	0,049	EH
4E8	B20X30	1920,738	10,137	D20N1	21,816	D20N1	0,044	EH
4E8	B20X30	3841,477	40,686	D20N1	20,290	D20N1	0,049	EH
4E9	B20X30	0,000	24,842	D20N1	12,403	D20N1	0,038	EH
4E9	B20X30	192,074	8,197	D20N1	17,550	D20N3	0,038	EH
4E9	B20X30	3844,955	19,243	D20N4	9,551	D20N4	0,039	EH
5A1	BI45X70	250,000	1015,408	D20N6	707,604	D20N5	1,969	D20N2
5A1	BI45X70	1625,000	881,696	D20N5	535,217	D20N5	1,726	D20N2
5A1	BI45X70	3000,000	0,000	D20N1	808,701	D20N3	1,514	D20N2
5A2	BI45X70	250,000	1784,413	D20N6	1011,143	D20N6	2,137	D20N10
5A2	BI45X70	1625,000	849,844	D20N6	670,539	D20N5	1,940	D20N10
5A2	BI45X70	3000,000	0,000	D20N1	1103,724	D20N5	1,775	D20N10
5A3	BI45X70	250,000	2149,051	D20N6	1098,991	D20N6	2,176	D20N2
5A3	BI45X70	1625,000	912,905	D20N10	807,047	D20N5	1,677	EH
5A3	BI45X70	3000,000	0,000	D20N1	1409,979	D20N5	1,630	EH
5A4	BI45X70	250,000	1798,898	D20N6	1011,143	D20N6	2,162	D20N10
5A4	BI45X70	1625,000	852,595	D20N4	767,789	D20N5	1,968	D20N10
5A4	BI45X70	3000,000	0,000	D20N1	1209,345	D20N5	1,800	D20N10
5A5	BI45X70	250,000	945,160	D20N6	1011,142	D20N5	1,939	D20N2
5A5	BI45X70	1625,000	886,109	D20N5	896,437	D20N4	1,676	D20N2
5A5	BI45X70	3000,000	0,000	D20N1	880,238	D20N2	1,730	D20N1
5A6	BI45X70	250,000	868,621	D20N4	1011,141	D20N5	1,950	D20N2
5A6	BI45X70	1625,000	881,431	D20N6	890,515	D20N5	1,696	D20N2
5A6	BI45X70	3000,000	0,000	D20N1	881,710	D20N2	1,720	D20N1
5A7	BI45X70	250,000	1783,684	D20N6	1011,143	D20N6	2,150	D20N10
5A7	BI45X70	1625,000	834,992	D20N6	800,660	D20N5	1,955	D20N10
5A7	BI45X70	3000,000	0,000	D20N1	1238,157	D20N5	1,787	D20N10
5A8	BI45X70	250,000	2129,408	D20N6	1032,218	D20N6	2,156	D20N2
5A8	BI45X70	1625,000	909,611	D20N10	860,675	D20N5	1,687	EH
5A8	BI45X70	3000,000	0,000	D20N1	1438,345	D20N5	1,620	EH
5A9	BI45X70	250,000	1786,543	D20N6	1011,143	D20N6	2,136	D20N10
5A9	BI45X70	1625,000	847,387	D20N4	718,360	D20N5	1,942	D20N10
5A9	BI45X70	3000,000	0,000	D20N1	1123,870	D20N5	1,779	D20N10
5B1	BI30X50	150,000	474,147	D20N3	663,105	D20N4	1,087	D20N2
5B1	BI30X50	2650,000	192,581	D20N3	232,774	D20N2	0,671	D20N2
5B1	BI30X50	4950,000	474,147	D20N4	413,416	D20N3	1,028	D20N1
5B2	BI30X50	150,000	474,147	D20N4	358,252	D20N3	1,072	D20N1
5B2	BI30X50	2650,000	188,807	D20N6	232,480	D20N2	0,676	D20N2
5B2	BI30X50	4950,000	474,147	D20N3	416,762	D20N4	1,027	D20N2
5B3	BI30X50	150,000	319,049	D20N6	474,147	D20N5	1,864	D20N1
5B3	BI30X50	1200,000	126,918	D20N5	176,918	D20N5	1,815	D20N2
5B3	BI30X50	2250,000	543,588	D20N5	366,697	D20N5	1,987	D20N2

SD4	B150X50	150,000	274,566	DCON3	340,784	DCON3	1,544	DCON3
SD4	B200X50	1200,000	190,416	DCON2	141,312	DCON2	1,808	DCON2
SD4	B250X50	2250,000	390,609	DCON3	386,979	DCON3	1,671	DCON3
SD5	B150X50	150,000	240,021	DCON4	298,153	DCON4	1,493	DCON4
SD5	B200X50	1200,000	184,587	DCON2	300,150	DCON2	1,748	DCON2
SD5	B250X50	2250,000	323,875	DCON3	407,927	DCON3	1,911	DCON3
SD6	B150X50	150,000	218,579	DCON4	424,140	DCON4	1,750	DCON4
SD6	B200X50	1200,000	169,693	DCON3	184,651	DCON3	1,914	DCON2
SD6	B250X50	2250,000	283,901	DCON4	380,564	DCON4	2,086	DCON2
SD7	B150X50	225,000	370,609	DCON3	474,140	DCON3	1,659	DCON3
SD7	B200X50	1387,500	248,219	DCON3	249,414	DCON3	0,995	BH
SD7	B250X50	4078,090	753,126	DCON4	474,140	DCON4	1,551	DCON4
SD8	B150X50	225,000	350,655	DCON3	474,140	DCON3	1,454	DCON3
SD8	B200X50	2250,000	340,848	DCON3	207,984	DCON2	0,919	DCON3
SD8	B250X50	4078,000	725,969	DCON4	474,140	DCON3	1,536	DCON4
SD9	B150X50	150,000	1163,174	DCON3	746,831	DCON3	1,998	DCON3
SD9	B200X50	1961,500	305,406	DCON3	266,980	DCON3	1,075	DCON3
SD9	B250X50	4875,000	981,767	DCON4	697,701	DCON4	1,907	DCON4
SD1	B150X40	225,000	455,021	DCON3	710,361	DCON3	1,104	DCON3
SD1	B250X40	2250,000	147,108	DCON2	178,986	DCON2	0,767	DCON2
SD1	B250X40	4275,000	800,018	DCON4	329,272	DCON3	1,000	DCON2
SD2	B150X40	225,000	460,884	DCON4	915,247	DCON4	1,100	DCON3
SD2	B250X40	2250,000	189,584	DCON3	178,681	DCON2	0,795	DCON2
SD2	B250X40	4275,000	592,201	DCON3	208,619	DCON3	1,185	DCON2
SD3	B150X40	0,000	455,182	DCON3	915,247	DCON3	1,109	BH
SD3	B250X40	2250,000	200,108	DCON2	311,148	DCON2	0,761	BH
SD3	B250X40	4500,000	804,067	DCON4	366,954	DCON4	1,238	BH
SD4	B150X40	0,000	279,660	DCON3	694,814	DCON3	0,677	BH
SD4	B250X40	2250,000	133,776	DCON2	311,148	DCON2	0,461	BH
SD4	B250X40	4500,000	469,428	DCON4	262,370	DCON3	0,660	BH
SD5	B150X40	0,000	412,675	DCON3	730,597	DCON3	0,999	BH
SD5	B250X40	2250,000	134,968	DCON2	311,148	DCON2	0,468	BH
SD5	B250X40	4500,000	336,644	DCON4	241,082	DCON2	0,675	BH
SD6	B150X40	0,000	415,569	DCON3	436,881	DCON3	1,906	BH
SD6	B250X40	2250,000	236,145	DCON3	311,148	DCON2	0,831	BH
SD6	B250X40	4500,000	568,559	DCON4	241,707	DCON4	1,116	BH
SD7	B150X40	0,000	476,614	DCON4	449,059	DCON4	1,317	BH
SD7	B250X40	2250,000	385,461	DCON4	311,148	DCON2	0,840	BH
SD7	B250X40	4500,000	968,470	DCON3	239,652	DCON3	1,119	BH
SD8	B150X40	0,000	419,611	DCON4	928,876	DCON3	0,658	BH
SD8	B250X40	2250,000	136,894	DCON2	311,148	DCON2	0,457	BH
SD8	B250X40	4500,000	387,566	DCON3	387,187	DCON2	0,673	BH
SD9	B150X40	0,000	380,010	DCON4	734,950	DCON3	0,679	BH
SD9	B250X40	2250,000	134,437	DCON2	311,148	DCON2	0,462	BH
SD9	B250X40	4500,000	481,248	DCON3	271,815	DCON2	0,662	BH
SD1	B200X50	125,000	280,175	DCON3	144,708	DCON3	1,194	DCON2
SD1	B200X50	1250,000	72,818	DCON2	72,018	DCON2	0,719	DCON2
SD1	B200X50	2376,000	519,834	DCON4	191,048	DCON3	0,991	DCON1
SD2	B200X50	0,000	81,196	DCON1	85,164	DCON2	0,714	DCON2
SD2	B200X50	1187,500	109,000	DCON2	108,000	DCON2	0,566	DCON2
SD2	B200X50	2375,000	583,245	DCON4	213,561	DCON2	1,116	DCON2
SD3	B200X50	0,000	108,733	DCON3	61,591	DCON3	0,900	BH
SD3	B200X50	2250,000	75,902	DCON3	266,513	DCON2	0,124	BH
SD3	B200X50	4500,000	187,291	DCON4	63,367	DCON4	0,198	BH
SD4	B200X50	0,000	87,184	DCON3	43,471	DCON3	0,165	BH
SD4	B200X50	2250,000	61,795	DCON2	266,773	DCON2	0,110	BH
SD4	B200X50	4500,000	78,584	DCON2	39,193	DCON2	0,180	BH
SD5	B200X50	0,000	95,490	DCON4	50,498	DCON3	0,445	BH
SD5	B200X50	2187,500	130,784	DCON2	130,784	DCON2	0,444	BH
SD5	B200X50	4875,000	420,216	DCON3	263,815	DCON2	0,696	BH
SD6	B200X50	125,000	125,017	DCON3	82,070	DCON3	0,490	BH
SD6	B200X50	2250,000	95,793	DCON2	95,753	DCON2	0,400	BH
SD6	B200X50	4875,000	391,481	DCON4	190,778	DCON2	0,695	BH
SD7	B200X50	0,000	76,847	DCON4	68,299	DCON3	0,354	DCON10
SD7	B200X50	2187,500	19,090	DCON2	19,090	DCON2	0,089	DCON10
SD7	B200X50	4875,000	57,504	DCON3	28,699	DCON3	0,138	DCON10
SD8	B200X50	0,000	75,067	DCON4	80,444	DCON4	0,153	DCON10
SD8	B200X50	2187,500	18,700	DCON2	18,700	DCON2	0,087	DCON10
SD8	B200X50	4875,000	53,006	DCON4	29,448	DCON4	0,138	DCON10

6D4	B20X50	125,000	170,907	DCON4	74,996	DCON4	0,478	EH
6D8	B30X50	2250,000	128,915	DCON3	123,716	DCON3	0,387	EH
6D9	B20X50	4875,000	380,477	DCON3	249,405	DCON3	0,592	EH
6F1	B20X50	0,000	0,000	DCON1	560,416	DCON2	0,346	DCON2
6F1	B30X50	1062,500	178,103	DCON2	172,208	DCON2	0,207	DCON2
6F1	B20X50	7125,000	680,988	DCON1	820,677	DCON2	0,040	DCON2
6H1	B20X50	0,000	10,903	EH	138,804	DCON3	0,704	EH
6H2	B30X50	1250,000	178,237	DCON2	248,018	DCON2	0,630	EH
6H3	B20X50	4500,000	798,144	DCON1	347,432	DCON1	1,096	DCON2
6F2	B20X50	0,000	10,792	EH	138,600	DCON3	0,720	EH
6F2	B30X50	2250,000	178,103	DCON2	348,410	DCON2	0,619	EH
6F3	B20X50	4500,000	798,142	DCON2	366,069	DCON1	1,099	DCON2
6F4	B20X50	0,000	341,581	DCON2	178,708	DCON2	0,819	DCON2
6F4	B20X50	1062,500	176,263	DCON2	210,401	DCON2	2,006	DCON2
6F4	B20X50	2125,000	0,000	DCON1	566,953	DCON1	1,694	DCON2
6A1	BI45X70	0,000	21,105	DCON10	250,000	DCON5	1,254	DCON1
6A1	BI45X70	875,000	334,101	DCON5	258,989	DCON5	1,370	DCON1
6A1	BI45X70	1750,000	734,904	DCON5	364,704	DCON5	1,498	DCON1
6A2	BI45X70	750,000	1415,482	DCON5	761,482	DCON5	1,183	EH
6A2	BI45X70	1125,000	874,984	DCON6	379,731	DCON5	1,153	EH
6A2	BI45X70	2000,000	146,824	DCON10	701,068	DCON5	1,115	EH
6A3	BI45X70	750,000	1503,556	DCON5	940,127	DCON5	1,227	EH
6A3	BI45X70	1125,000	861,873	DCON2	465,547	DCON2	1,198	EH
6A3	BI45X70	2000,000	125,915	DCON6	195,989	DCON5	1,160	EH
6A4	BI45X70	0,000	0,746	DCON10	283,907	DCON5	1,251	DCON1
6A4	BI45X70	875,000	328,011	DCON6	336,897	DCON5	1,867	DCON1
6A4	BI45X70	1750,000	730,908	DCON6	323,665	DCON5	1,485	DCON1
6A5	BI45X70	750,000	1537,689	DCON5	947,883	DCON5	1,684	DCON2
6A5	BI45X70	1125,000	469,474	DCON2	469,474	DCON2	1,380	EH
6A5	BI45X70	3000,000	0,000	DCON1	1451,458	DCON2	1,383	EH
6A6	BI45X70	750,000	1594,840	DCON6	908,772	DCON5	1,563	DCON2
6A6	BI45X70	1625,000	447,716	DCON2	447,716	DCON2	1,333	EH
6A6	BI45X70	3000,000	0,000	DCON1	1370,852	DCON2	1,285	EH
6A7	BI45X70	750,000	729,560	DCON4	761,830	DCON5	1,640	DCON2
6A7	BI45X70	1625,000	304,293	DCON10	719,997	DCON5	1,386	DCON2
6A7	BI45X70	3000,000	0,000	DCON1	388,311	DCON5	1,248	DCON1
6A8	BI45X70	750,000	296,171	DCON6	758,841	DCON5	1,639	DCON2
6A8	BI45X70	1625,000	307,988	DCON10	725,008	DCON5	1,387	DCON2
6A8	BI45X70	3000,000	0,000	DCON1	386,460	DCON2	1,252	DCON1
6A9	BI45X70	750,000	1458,718	DCON4	799,454	DCON2	1,318	EH
6A9	BI45X70	1625,000	395,487	DCON2	581,386	DCON5	1,264	EH
6A9	BI45X70	3000,000	0,000	DCON1	1179,480	DCON2	1,206	EH
6B1	BI30X50	150,000	313,824	DCON3	155,450	DCON3	0,684	DCON6
6B1	BI30X50	2250,000	77,468	DCON3	189,986	DCON2	0,370	DCON6
6B1	BI30X50	4950,000	285,615	DCON4	144,003	DCON3	0,638	DCON6
6B2	BI30X50	150,000	312,874	DCON4	157,840	DCON4	0,694	DCON6
6B2	BI30X50	2250,000	69,035	DCON3	192,338	DCON2	0,380	DCON6
6B2	BI30X50	4950,000	278,805	DCON3	139,463	DCON3	0,642	DCON6
6B3	B30X50	150,000	102,016	DCON6	141,360	DCON5	0,868	DCON1
6B3	B30X50	1200,000	101,739	DCON1	91,719	DCON2	1,016	DCON2
6B3	B30X50	2250,000	330,408	DCON2	164,018	DCON2	1,168	DCON2
6B4	B30X50	150,000	196,364	DCON6	97,201	DCON5	0,817	DCON2
6B4	B30X50	1200,000	188,515	DCON2	114,058	DCON5	0,361	DCON2
6B4	B30X50	2250,000	483,180	DCON5	209,250	DCON5	1,044	DCON2
6B5	B30X50	150,000	172,395	DCON6	94,415	DCON5	1,201	DCON2
6B5	B30X50	1200,000	276,277	DCON2	135,156	DCON2	1,265	DCON2
6B5	B30X50	2250,000	547,167	DCON5	271,912	DCON2	1,328	DCON2
6B6	B30X50	150,000	108,795	DCON5	161,764	DCON5	0,933	DCON1
6B6	B30X50	1200,000	109,817	DCON1	87,398	DCON2	1,090	DCON2
6B6	B30X50	2250,000	303,636	DCON2	175,460	DCON2	1,261	DCON2
6B7	BI30X50	225,000	565,013	DCON4	942,458	DCON4	0,000	DCON1
6B7	BI30X50	612,500	474,147	DCON4	400,199	DCON3	0,000	DCON1
6B7	BI30X50	1000,000	262,555	DCON4	424,243	DCON3	0,000	DCON1
6B8	BI30X50	225,000	574,446	DCON3	440,967	DCON3	1,861	DCON2
6B8	BI30X50	1862,500	218,362	DCON3	222,376	DCON3	1,237	DCON2
6B9	BI30X50	3600,000	287,192	DCON4	410,112	DCON3	1,483	DCON2
6B9	BI30X50	0,000	0,000	DCON1	415,917	DCON2	1,715	DCON1
6B9	BI30X50	1012,500	207,163	DCON4	476,697	DCON3	2,140	DCON2

6B9	B15X40	2015,000	479,798	D40N4	418,192	D40N4	2,496	D40N1
6C1	B15X40	106,000	928,517	D40N3	210,819	D40N3	0,941	D40N6
6C1	B15X40	1250,000	140,714	D40N4	170,990	D40N2	0,963	D40N1
6C1	B15X40	4000,000	454,581	D40N4	794,109	D40N4	0,935	D40N7
6C2	B15X40	284,000	931,014	D40N4	268,576	D40N3	0,841	D40N6
6C2	B15X40	1250,000	137,870	D40N3	174,041	D40N2	0,949	D40N1
6C2	B15X40	4000,000	474,048	D40N3	797,291	D40N3	0,914	D40N1
6C3	B15X40	0,000	955,361	D40N4	211,379	D40N4	2,877	D40N1
6C3	B15X40	1250,000	115,059	D40N4	115,915	D40N4	0,951	D40N3
6C3	B15X40	4000,000	104,865	D40N3	207,849	D40N4	0,894	D40N7
6C4	B15X40	0,000	84,931	D40N3	211,140	D40N3	0,871	D40N1
6C4	B15X40	1250,000	135,013	D40N3	135,013	D40N3	0,849	D40N2
6C4	B15X40	4000,000	414,587	D40N3	775,599	D40N3	0,899	D40N2
6C5	B15X40	0,000	480,581	D40N3	211,148	D40N1	3,196	EH
6C5	B15X40	1250,000	155,071	D40N2	211,148	D40N2	0,460	EH
6C5	B15X40	4000,000	511,148	D40N3	797,210	D40N3	0,854	EH
6C6	B15X40	0,000	0,000	D40N1	547,905	D40N1	2,114	D40N1
6C6	B15X40	1125,000	38,614	D40N1	200,614	D40N2	2,680	D40N2
6C6	B15X40	3750,000	498,824	D40N3	511,148	D40N3	1,954	D40N7
6C7	B15X40	0,000	443,479	D40N2	511,148	D40N2	2,831	D40N1
6C7	B15X40	1125,000	121,251	D40N2	200,706	D40N2	3,559	D40N2
6C7	B15X40	3750,000	0,000	D40N1	597,966	D40N3	1,922	D40N1
6C8	B15X40	0,000	700,487	D40N3	698,905	D40N3	1,138	EH
6C8	B15X40	1250,000	148,837	D40N2	511,148	D40N2	0,562	EH
6C8	B15X40	4000,000	590,291	D40N4	147,846	D40N3	1,009	EH
6C9	B15X40	0,000	684,195	D40N4	521,296	D40N4	1,122	EH
6C9	B15X40	1250,000	188,230	D40N2	511,148	D40N2	0,545	EH
6C9	B15X40	4000,000	511,148	D40N3	199,864	D40N3	0,907	EH
6D1	B20X50	0,000	18,642	D40N3	90,941	D40N3	0,146	D40N1
6D1	B20X50	500,000	11,835	D40N3	24,192	D40N3	0,146	D40N2
6D1	B20X50	1000,000	7,998	D40N4	11,507	D40N3	0,165	D40N7
6D2	B20X50	0,000	58,883	D40N3	34,683	D40N3	0,203	D40N6
6D2	B20X50	2250,000	20,196	D40N3	69,846	D40N3	0,125	D40N6
6D2	B20X50	4500,000	41,855	D40N3	91,845	D40N3	0,164	EH
6D3	B20X50	0,000	15,872	D40N1	9,930	D40N2	0,194	D40N2
6D3	B20X50	500,000	15,039	D40N3	4,563	D40N2	0,134	D40N2
6D3	B20X50	1000,000	16,069	D40N3	10,605	D40N4	0,116	EH
6D4	B20X50	0,000	40,805	D40N2	10,409	D40N2	0,186	D40N1
6D4	B20X50	500,000	13,038	D40N4	8,302	D40N2	0,156	D40N2
6D4	B20X50	1000,000	17,735	D40N4	19,094	D40N3	0,146	D40N2
6D5	B20X50	0,000	55,183	D40N4	32,523	D40N4	0,197	D40N6
6D5	B20X50	2250,000	19,703	D40N4	72,192	D40N2	0,118	D40N6
6D5	B20X50	4500,000	42,190	D40N3	79,210	D40N4	0,161	EH
6D6	B20X50	0,000	18,176	D40N3	29,776	D40N4	0,142	D40N1
6D6	B20X50	500,000	11,995	D40N3	23,898	D40N4	0,139	D40N2
6D6	B20X50	1000,000	7,691	D40N3	11,740	D40N4	0,159	D40N2
6D7	B20X50	0,000	8,921	D40N3	10,331	D40N3	0,197	D40N2
6D7	B20X50	500,000	11,533	D40N4	9,448	D40N2	0,217	D40N1
6D7	B20X50	1000,000	14,530	D40N3	10,567	D40N3	0,230	D40N2
6D8	B20X50	0,000	64,538	D40N2	32,009	D40N2	0,219	D40N2
6D8	B20X50	500,000	37,791	D40N1	16,086	D40N1	0,289	D40N2
6D8	B20X50	1000,000	17,940	D40N3	8,910	D40N2	0,279	D40N7
6D9	B20X50	0,000	70,911	D40N2	36,307	D40N2	0,307	D40N2
6D9	B20X50	500,000	42,185	D40N2	18,167	D40N2	0,367	D40N2
6D9	B20X50	1000,000	18,219	D40N2	8,104	D40N2	0,317	D40N2
6E1	B15X20	0,000	213,716	D40N1	108,205	D40N1	0,678	D40N1
6E1	B15X20	1500,000	90,162	D40N1	114,770	D40N1	0,893	EH
6E1	B15X20	3000,000	191,687	D40N1	188,668	D40N1	1,762	D40N1
6E2	B15X20	0,000	410,651	D40N1	190,972	D40N1	1,045	D40N1
6E2	B15X20	3000,000	92,591	D40N1	177,882	D40N1	0,108	EH
6E2	B15X20	6000,000	401,566	D40N1	187,143	D40N1	1,058	D40N1
6E3	B15X20	0,000	803,894	D40N1	144,348	D40N1	0,782	D40N1
6E3	B15X20	1500,000	89,047	D40N2	104,289	D40N1	0,407	EH
6E3	B15X20	3000,000	804,738	D40N1	108,207	D40N1	0,693	D40N1
6E1	B20X30	150,000	178,203	D40N5	62,035	D40N5	2,636	D40N2
6E1	B20X30	300,000	133,465	D40N	153,841	D40N5	0,528	D40N2
6E1	B20X30	450,000	73,704	D40N10	185,815	D40N5	2,523	D40N2
6E2	B20X30	150,000	178,203	D40N5	95,151	D40N5	2,527	D40N2

BF1	B20X30	0,000	35,497	DCON3	17,682	DCON3	0,045	EH
BF1	B20X30	1875,000	8,894	DCON4	41,199	DCON4	0,046	EH
BF1	B20X30	3750,000	26,247	DCON3	18,096	DCON3	0,045	EH
BF2	B20X30	0,000	35,536	DCON4	17,732	DCON4	0,046	EH
BF2	B20X30	1875,000	8,857	DCON4	41,748	DCON4	0,046	EH
BF2	B20X30	3750,000	35,027	DCON4	17,478	DCON4	0,045	EH
BF3	B20X30	0,000	171,983	DCON1	85,133	DCON1	0,486	DCON1
BF3	B20X30	875,000	77,842	DCON1	42,359	DCON1	0,447	DCON1
BF3	B20X30	1750,000	11,379	DCON1	5,686	DCON1	0,368	DCON1
BF4	B20X30	0,000	0,000	DCON1	11,379	DCON1	0,391	DCON1
BF4	B20X30	875,000	58,022	DCON1	28,774	DCON1	0,435	DCON1
BF4	B20X30	1750,000	157,223	DCON1	77,896	DCON1	0,459	DCON1
BF5	B20X30	0,000	156,618	DCON1	77,603	DCON1	0,478	DCON1
BF5	B20X30	875,000	58,600	DCON1	28,609	DCON1	0,464	DCON1
BF5	B20X30	1750,000	0,000	DCON1	11,738	DCON1	0,390	DCON1
BF6	B20X30	875,000	78,307	DCON1	42,503	DCON1	0,444	DCON1
BF6	B20X30	1750,000	172,680	DCON1	85,476	DCON1	0,488	DCON1
BF7	B20X30	825,000	368,881	DCON4	179,203	DCON4	0,896	DCON2

B87	BI30X70	410,500	149,968	D60N4	170,149	D60N3	0,847	D60N2
B87	BI30X80	1000,000	0,000	D60N1	197,090	D60N3	0,814	D60N2
B88	BI30X30	0,000	34,890	D60N4	170,006	D60N3	0,413	D60N1
B88	BI30X70	3475,000	76,845	D60N3	194,853	D60N2	0,470	D60N1
B89	BI30X90	225,000	164,017	D60N4	168,998	D60N4	0,802	BH
B89	BI30X30	2150,000	91,517	D60N3	188,517	D60N2	0,811	BH
B89	BI30X80	4875,000	241,911	D60N3	184,605	D60N3	0,804	BH
LB10	BI30X50	225,000	71,106	D60N1	36,549	D60N1	0,218	D60N10
LB10	BI30X60	1862,500	17,741	D60N1	41,964	D60N1	0,139	D60N10
LB10	BI30X80	3000,000	0,000	D60N1	57,090	D60N1	0,168	D60N10
LB11	BI30X50	0,000	0,000	D60N2	31,491	D60N1	0,140	BH
LB11	BI30X50	375,000	26,662	D60N1	32,669	D60N1	0,140	BH
LB11	BI30X60	250,000	90,820	D60N1	45,071	D60N1	0,140	BH
LB12	BI30X60	950,000	54,810	D60N1	27,470	D60N1	0,065	BH
LB12	BI30X50	2362,500	14,277	D60N1	39,979	D60N1	0,066	BH
LB12	BI30X80	4875,000	92,510	D60N1	28,571	D60N1	0,065	BH
LB13	BI30X60	225,000	97,214	D60N1	48,571	D60N1	0,066	BH
LB13	BI30X50	2150,000	14,277	D60N1	39,979	D60N1	0,066	BH
LB13	BI30X80	4875,000	92,510	D60N1	28,571	D60N1	0,065	BH
LB14	BI30X60	225,000	97,214	D60N1	48,571	D60N1	0,066	BH
LB14	BI30X50	2150,000	14,277	D60N1	39,979	D60N1	0,066	BH
LB14	BI30X80	4875,000	92,510	D60N1	28,571	D60N1	0,065	BH
LB15	BI30X60	225,000	97,214	D60N1	48,571	D60N1	0,066	BH
LB15	BI30X50	2150,000	14,277	D60N1	39,979	D60N1	0,066	BH
LB15	BI30X80	4875,000	92,510	D60N1	28,571	D60N1	0,065	BH
LB16	BI30X60	150,000	56,791	D60N1	28,361	D60N1	0,065	BH
LB16	BI30X50	2075,000	14,172	D60N1	35,694	D60N1	0,065	BH
LB16	BI30X80	4000,000	47,645	D60N1	23,298	D60N1	0,065	BH
LB17	BI30X60	150,000	56,791	D60N1	28,361	D60N1	0,065	BH
LB17	BI30X50	2075,000	14,172	D60N1	35,694	D60N1	0,065	BH
LB17	BI30X80	4000,000	47,645	D60N1	23,298	D60N1	0,065	BH
LB18	BI30X60	250,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB18	BI30X50	2500,000	17,668	D60N1	49,576	D60N1	0,073	BH
LB18	BI30X80	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB19	BI30X60	250,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB19	BI30X50	2500,000	17,668	D60N1	49,576	D60N1	0,073	BH
LB19	BI30X80	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB20	BI30X60	225,000	73,365	D60N1	36,625	D60N1	0,075	BH
LB20	BI30X50	2500,000	18,298	D60N1	49,375	D60N1	0,075	BH
LB20	BI30X80	4875,000	73,365	D60N1	36,625	D60N1	0,075	BH
LB21	BI30X60	250,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB21	BI30X50	5000,000	84,437	D60N1	198,778	D60N1	0,165	BH
LB21	BI30X80	9750,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB22	BI30X60	250,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB22	BI30X50	5000,000	84,437	D60N1	198,778	D60N1	0,165	BH
LB22	BI30X80	9750,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB23	BI30X60	250,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB23	BI30X50	5000,000	84,437	D60N1	198,778	D60N1	0,165	BH
LB23	BI30X80	9750,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB24	BI30X60	225,000	347,314	D60N1	171,360	D60N1	0,167	BH
LB24	BI30X50	5000,000	85,855	D60N1	198,778	D60N1	0,167	BH
LB24	BI30X80	9775,000	347,314	D60N1	171,360	D60N1	0,167	BH
LB25	BI30X60	250,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB25	BI30X50	5000,000	84,437	D60N1	198,778	D60N1	0,165	BH
LB25	BI30X80	9750,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB26	BI30X60	250,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB26	BI30X50	5000,000	84,437	D60N1	198,778	D60N1	0,165	BH
LB26	BI30X80	9750,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB27	BI30X60	250,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB27	BI30X50	5000,000	84,437	D60N1	198,778	D60N1	0,165	BH
LB27	BI30X80	9750,000	341,516	D60N1	169,492	D60N1	0,165	BH
LB28	BI30X60	225,000	73,365	D60N1	36,625	D60N1	0,075	BH
LB28	BI30X50	2500,000	18,298	D60N1	49,375	D60N1	0,075	BH
LB28	BI30X80	4875,000	73,365	D60N1	36,625	D60N1	0,075	BH
LB29	BI30X60	250,000	98,217	D60N1	48,005	D60N1	0,093	BH
LB29	BI30X50	2925,000	27,547	D60N1	68,285	D60N1	0,093	BH
LB29	BI30X80	6600,000	110,985	D60N1	55,340	D60N1	0,093	BH
LB30	BI30X50	250,000	98,217	D60N1	48,005	D60N1	0,093	BH

LB29	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB30	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB31	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB32	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB33	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB34	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB35	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB36	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB37	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB38	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB39	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB40	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB41	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB42	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB43	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB44	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB45	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB46	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LB47	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LC10	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LC11	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LC12	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LC13	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH
LC14	BI30X50	4750,000	70,673	D60N1	35,283	D60N1	0,073	BH

1015	B25X40	950,000	12,733	D00N1	6,964	D00N1	0,082	BH
1015	B25X40	1425,000	4,255	D00N1	10,579	D00N1	0,082	BH
1015	B25X40	2850,000	17,448	D00N1	8,719	D00N1	0,082	BH
1016	B25X40	475,000	14,937	D00N1	7,460	D00N1	0,081	BH
1016	B25X40	1250,000	9,729	D00N1	10,475	D00N1	0,081	BH
1016	B25X40	2375,000	14,937	D00N1	7,460	D00N1	0,081	BH
1017	B25X40	125,000	14,937	D00N1	7,460	D00N1	0,081	BH
1017	B25X40	1250,000	9,729	D00N1	10,475	D00N1	0,081	BH
1017	B25X40	2375,000	14,937	D00N1	7,460	D00N1	0,081	BH
1018	B25X40	125,000	57,155	D00N1	28,545	D00N1	0,067	BH
1018	B25X40	1250,000	14,170	D00N1	30,860	D00N1	0,060	BH
1018	B25X40	4375,000	56,836	D00N1	28,365	D00N1	0,060	BH
1019	B25X40	125,000	56,836	D00N1	28,365	D00N1	0,060	BH
1019	B25X40	1250,000	14,170	D00N1	30,860	D00N1	0,060	BH
1019	B25X40	4375,000	56,836	D00N1	28,365	D00N1	0,060	BH
1020	B25X40	125,000	56,836	D00N1	28,365	D00N1	0,060	BH
1020	B25X40	1250,000	14,170	D00N1	30,860	D00N1	0,060	BH
1020	B25X40	4375,000	56,836	D00N1	28,365	D00N1	0,060	BH
1021	B25X40	125,000	56,836	D00N1	28,365	D00N1	0,060	BH
1021	B25X40	1250,000	14,170	D00N1	30,860	D00N1	0,060	BH
1021	B25X40	4375,000	56,836	D00N1	28,365	D00N1	0,060	BH
1022	B25X40	125,000	71,456	D00N1	35,845	D00N1	0,070	BH
1022	B25X40	2500,000	17,827	D00N1	41,827	D00N1	0,070	BH
1022	B25X40	4375,000	71,559	D00N1	35,696	D00N1	0,070	BH
2A10	BI45X70	750,000	1951,742	D00N2	1072,056	D00N2	2,406	BH
2A10	BI45X70	1825,000	804,528	D00N5	496,339	D00N2	2,192	BH
2A10	BI45X70	3000,000	0,000	D00N1	1060,422	D00N5	2,005	BH
2A11	BI45X70	750,000	1957,944	D00N5	1011,143	D00N5	1,994	D00N2
2A11	BI45X70	1825,000	410,368	D00N5	674,093	D00N5	1,691	D00N2
2A11	BI45X70	3000,000	0,000	D00N1	395,314	D00N2	1,469	D00N2
2A12	BI45X70	0,000	0,000	D00N1	961,637	D00N5	2,458	D00N6
2A12	BI45X70	550,000	173,838	D00N2	173,879	D00N2	2,523	D00N6
2A12	BI45X70	1100,000	702,826	D00N2	348,206	D00N2	2,530	D00N6
2A13	BI45X70	0,000	0,000	D00N1	961,556	D00N5	2,458	D00N6
2A13	BI45X70	550,000	173,613	D00N2	173,613	D00N2	2,523	D00N6
2A13	BI45X70	1100,000	701,914	D00N2	348,451	D00N2	2,530	D00N6
2A14	BI45X70	0,000	0,000	D00N1	991,100	D00N5	1,926	D00N2
2A14	BI45X70	875,000	567,129	D00N5	535,896	D00N6	2,040	D00N2
2A14	BI45X70	1750,000	1063,312	D00N5	672,612	D00N5	2,226	D00N2
2A15	BI45X70	0,000	0,000	D00N1	969,675	D00N2	1,984	D00N2
2A15	BI45X70	875,000	600,671	D00N5	584,820	D00N6	2,098	D00N2
2A15	BI45X70	1750,000	1065,346	D00N5	699,820	D00N5	2,284	D00N2
2A16	BI45X70	0,000	0,000	D00N1	1037,504	D00N5	1,704	D00N2
2A16	BI45X70	2000,000	311,994	D00N2	1308,485	D00N2	0,666	D00N1
2A16	BI45X70	4000,000	0,000	D00N1	1026,512	D00N6	1,220	D00N2
2A17	BI45X70	0,000	0,000	D00N1	1026,791	D00N5	1,810	D00N2
2A17	BI45X70	2000,000	459,516	D00N2	1461,314	D00N2	0,789	D00N1
2A17	BI45X70	4000,000	0,000	D00N1	1194,894	D00N6	1,343	D00N2
2A18	BI45X70	0,000	0,000	D00N1	1102,630	D00N5	1,714	D00N2
2A18	BI45X70	2000,000	319,866	D00N2	1292,941	D00N2	0,759	D00N2
2A18	BI45X70	4000,000	0,000	D00N1	1030,245	D00N6	1,210	D00N2
2A19	BI45X70	0,000	0,000	D00N1	1171,944	D00N5	1,561	D00N2
2A19	BI45X70	2000,000	369,595	D00N2	1313,220	D00N2	1,053	D00N2
2A19	BI45X70	4000,000	0,000	D00N1	1011,143	D00N2	1,807	D00N2
2A20	BI45X70	0,000	0,000	D00N1	1181,137	D00N5	1,695	D00N2
2A20	BI45X70	2000,000	319,560	D00N2	1291,591	D00N2	0,761	D00N2
2A20	BI45X70	4000,000	0,000	D00N1	1032,268	D00N6	1,215	D00N1
2A21	BI45X70	0,000	0,000	D00N1	1282,280	D00N5	1,314	D00N2
2A21	BI45X70	2000,000	359,371	D00N2	1448,271	D00N2	0,795	D00N2
2A21	BI45X70	4000,000	0,000	D00N1	1196,335	D00N6	1,349	D00N2
2A22	BI45X70	0,000	0,000	D00N1	1044,280	D00N5	1,817	D00N2
2A22	BI45X70	2000,000	311,868	D00N2	1309,845	D00N2	0,668	D00N2
2A22	BI45X70	4000,000	0,000	D00N1	1037,420	D00N6	1,222	D00N2
2A23	BI45X70	0,000	0,000	D00N1	1011,143	D00N2	3,047	D00N2
2A23	BI45X70	1300,000	254,280	D00N2	916,816	D00N2	3,817	D00N2
2A23	BI45X70	2600,000	1011,143	D00N5	547,963	D00N6	3,841	D00N2
2A24	BI45X70	0,000	0,000	D00N1	1011,143	D00N2	3,047	D00N2
2A24	BI45X70	1300,000	254,934	D00N2	916,652	D00N2	3,817	D00N2
2A24	BI45X70	2600,000	1011,143	D00N5	549,752	D00N6	3,841	D00N2

[illegible]	BI45X70	950,000	1143,687	DCON4	1011,143	DCON5	2,989	DCON2
ZA25	BI45X70	1125,000	671,710	DCON4	860,952	DCON5	2,956	DCON2
ZA25	BI45X70	2000,000	0,000	DCON1	500,069	DCON1	3,741	DCON2
[illegible]	BI45X70	0,000	0,000	DCON1	300,505	DCON1	3,946	DCON2
ZA26	BI45X70	975,000	438,175	DCON4	642,706	DCON5	4,145	DCON2
ZA26	BI45X70	1950,000	1072,965	DCON4	794,991	DCON5	4,296	DCON1
[illegible]	BI45X70	0,000	0,000	DCON1	700,000	DCON5	4,104	DCON1
ZA27	BI45X70	975,000	474,603	DCON4	694,721	DCON5	4,054	DCON2
ZA27	BI45X70	1750,000	1114,941	DCON4	794,247	DCON5	4,475	DCON1
[illegible]	BI45X70	0,000	0,000	DCON1	400,000	DCON5	4,000	DCON1
ZA28	BI45X70	675,000	299,695	DCON4	505,954	DCON1	1,938	DCON1
ZA28	BI45X70	1350,000	767,800	DCON3	873,113	DCON5	2,244	DCON1
[illegible]	BI45X70	0,000	0,000	DCON1	637,949	DCON5	2,154	DCON1
ZA30	BI45X70	1875,000	965,705	DCON3	704,881	DCON5	2,554	DCON1
ZA30	BI45X70	2750,000	1135,933	DCON5	736,963	DCON5	2,916	DCON2
[illegible]	BI45X70	0,000	0,000	DCON1	1067,514	DCON5	1,475	EM
ZA31	BI45X70	1875,000	806,383	DCON5	443,617	DCON2	2,163	EM
ZA31	BI45X70	2750,000	1495,569	DCON5	807,415	DCON2	2,379	EM
[illegible]	BI45X70	0,000	0,000	DCON1	1158,733	DCON5	2,227	EM
ZA33	BI45X70	1875,000	854,071	DCON5	540,881	DCON2	2,414	EM
ZA33	BI45X70	2750,000	2014,941	DCON5	1072,545	DCON2	2,630	EM
[illegible]	BI45X70	0,000	0,000	DCON1	1044,585	DCON5	2,194	EM
ZA35	BI45X70	1875,000	1037,589	DCON5	530,458	DCON2	2,305	EM
ZA35	BI45X70	2750,000	2173,073	DCON5	1063,052	DCON5	2,541	EM
[illegible]	BI45X70	0,000	0,000	DCON1	991,000	DCON5	2,067	DCON2
ZA34	BI45X70	1875,000	590,981	DCON5	1011,143	DCON5	2,502	DCON2
ZA34	BI45X70	2750,000	1441,285	DCON5	941,506	DCON5	2,944	DCON2
[illegible]	BI45X70	0,000	0,000	DCON1	1204,000	DCON4	2,751	DCON2
ZA35	BI45X70	1987,500	991,807	DCON2	965,996	DCON5	4,067	DCON2
ZA35	BI45X70	2775,000	1281,849	DCON5	838,405	DCON5	4,418	DCON2
[illegible]	BI45X70	0,000	0,000	DCON1	981,450	DCON5	2,245	DCON2
ZA36	BI45X70	1875,000	995,464	DCON5	1011,143	DCON5	2,586	DCON2
ZA36	BI45X70	2750,000	1445,673	DCON5	944,412	DCON5	2,948	DCON2
[illegible]	BI45X70	0,000	0,000	DCON1	1046,599	DCON4	2,143	EM
ZA37	BI45X70	1875,000	1011,142	DCON5	637,583	DCON2	2,330	EM
ZA37	BI45X70	2750,000	2182,116	DCON5	1057,286	DCON5	2,546	EM
[illegible]	BI45X70	0,000	0,000	DCON1	1201,150	DCON4	2,745	EM
ZA38	BI45X70	1875,000	976,727	DCON5	543,879	DCON2	2,430	EM
ZA38	BI45X70	2750,000	2039,563	DCON5	1094,152	DCON5	2,646	EM
[illegible]	BI45X70	0,000	0,000	DCON1	1054,179	DCON4	2,442	EM
ZA39	BI45X70	1875,000	817,823	DCON5	491,762	DCON2	2,169	EM
ZA39	BI45X70	2750,000	1960,523	DCON5	990,624	DCON2	2,385	EM
[illegible]	BI45X70	0,000	0,000	DCON1	962,955	DCON5	2,027	DCON2
ZA40	BI45X70	1875,000	965,645	DCON5	755,225	DCON5	2,527	DCON2
ZA40	BI45X70	2750,000	1135,171	DCON5	1011,143	DCON10	2,869	DCON2
[illegible]	BI45X70	187,000	161,274	DCON3	964,616	DCON5	2,407	DCON2
ZA42	BI45X70	1700,000	813,603	DCON5	991,048	DCON5	2,599	DCON2
ZA42	BI45X70	1250,000	1138,070	DCON5	740,582	DCON5	2,742	DCON2
[illegible]	BI30X60	975,000	888,870	DCON4	567,889	DCON3	1,868	DCON1
ZB10	BI30X60	1862,500	284,742	DCON4	126,675	DCON3	1,454	DCON1
ZB10	BI30X60	3500,000	474,147	DCON3	529,672	DCON4	1,595	DCON1
[illegible]	BI30X60	0,000	474,147	DCON3	476,814	DCON4	1,600	DCON1
ZB11	BI30X60	375,000	600,417	DCON3	560,760	DCON5	1,695	DCON1
ZB11	BI30X60	750,000	830,570	DCON3	639,641	DCON5	1,797	DCON1
[illegible]	BI30X60	950,000	949,969	DCON4	598,441	DCON3	1,804	DCON2
ZB12	BI30X60	2362,500	189,579	DCON3	209,257	DCON4	1,102	DCON1
ZB12	BI30X60	4375,000	904,646	DCON3	853,067	DCON5	1,817	DCON2
[illegible]	BI30X60	975,000	876,978	DCON4	585,450	DCON3	1,846	DCON2
ZB13	BI30X60	1650,000	280,815	DCON3	284,228	DCON2	1,032	DCON1
ZB13	BI30X60	4875,000	980,976	DCON3	534,033	DCON5	1,764	DCON2
[illegible]	BI30X60	975,000	894,520	DCON4	552,945	DCON3	1,886	DCON2
ZB14	BI30X60	2250,000	276,847	DCON3	235,406	DCON2	1,064	DCON2
ZB14	BI30X60	4875,000	968,196	DCON3	540,064	DCON5	1,754	DCON2
[illegible]	BI30X60	975,000	950,435	DCON4	577,921	DCON3	1,941	DCON2
ZB15	BI30X60	2250,000	319,508	DCON3	247,211	DCON2	1,217	DCON1
ZB15	BI30X60	4875,000	1000,768	DCON3	598,185	DCON3	1,998	DCON2
[illegible]	BI30X60	975,000	980,535	DCON4	547,109	DCON3	1,774	DCON2
ZB16	BI30X60	2500,000	312,759	DCON3	267,846	DCON2	1,096	DCON1

2B16	BI30X50	4275,000	1005,084	DCON4	616,673	DCON7	1,732	DCON2
2B17	BI30X50	225,000	1002,721	DCON4	581,506	DCON7	1,823	DCON2
2B17	BI30X50	2600,000	311,547	DCON3	270,967	DCON2	1,079	DCON2
2B17	BI30X50	4275,000	976,571	DCON3	632,418	DCON8	1,772	DCON2
2B18	BI45X70	150,000	1106,095	DCON5	1011,143	DCON5	2,087	DCON2
2B18	BI45X70	1125,000	702,799	DCON6	962,441	DCON5	1,902	DCON2
2B18	BI45X70	1000,000	120,192	DCON10	670,331	DCON5	1,783	DCON2
2B19	BI45X70	0,000	119,149	DCON10	619,860	DCON5	1,720	DCON2
2B19	BI45X70	1375,000	901,716	DCON5	610,147	DCON6	1,931	DCON2
2B19	BI45X70	1750,000	1172,106	DCON6	1011,147	DCON2	2,176	DCON2
2B20	BI30X50	125,000	378,026	DCON3	227,303	DCON4	2,126	DCON2
2B20	BI30X50	1200,000	516,710	DCON4	474,147	DCON3	1,724	DCON2
2B20	BI30X50	2275,000	933,435	DCON4	743,171	DCON7	2,169	DCON2
2B21	BI30X50	225,000	754,355	DCON3	645,557	DCON8	1,655	DCON2
2B21	BI30X50	1300,000	288,627	DCON3	371,748	DCON4	1,369	DCON2
2B21	BI30X50	2375,000	194,125	DCON4	170,809	DCON5	1,727	DCON2
2B22	BI30X50	225,000	825,810	DCON3	568,412	DCON8	1,736	DCON2
2B22	BI30X50	2250,000	265,321	DCON3	252,706	DCON2	1,104	DCON2
2B22	BI30X50	4275,000	896,337	DCON4	591,092	DCON7	1,505	DCON2
2B23	BI30X50	225,000	771,628	DCON3	502,655	DCON8	1,427	DCON2
2B23	BI30X50	2250,000	248,501	DCON3	248,501	DCON3	1,039	DCON2
2B23	BI30X50	4275,000	794,602	DCON4	578,413	DCON7	1,448	DCON2
2B24	BI30X50	225,000	772,078	DCON3	560,333	DCON8	1,417	DCON2
2B24	BI30X50	2250,000	248,673	DCON3	248,673	DCON3	0,998	DCON1
2B24	BI30X50	4275,000	776,937	DCON4	581,109	DCON7	1,407	DCON2
2B25	BI30X50	250,000	1130,563	DCON3	610,244	DCON8	2,267	DCON2
2B25	BI30X50	2262,500	358,041	DCON3	336,177	DCON2	1,268	DCON2
2B25	BI30X50	4275,000	975,978	DCON4	559,662	DCON7	2,191	DCON2
2B26	BI30X50	225,000	954,952	DCON3	606,187	DCON8	1,908	DCON2
2B26	BI30X50	2137,500	304,960	DCON3	319,340	DCON4	1,211	DCON2
2B26	BI30X50	4250,000	1007,215	DCON4	686,884	DCON7	1,892	DCON2
2B27	BI30X50	225,000	986,664	DCON4	584,799	DCON7	1,982	DCON2
2B27	BI30X50	2237,500	308,846	DCON3	314,610	DCON4	1,285	DCON2
2B27	BI30X50	4250,000	967,700	DCON3	710,469	DCON8	1,833	DCON2
2B28	BI30X50	250,000	1163,565	DCON4	598,862	DCON7	2,335	DCON2
2B28	BI30X50	2262,500	302,708	DCON3	333,492	DCON2	1,326	DCON2
2B28	BI30X50	4275,000	947,570	DCON3	578,833	DCON8	2,193	DCON2
2B29	BI30X50	225,000	800,074	DCON4	541,145	DCON7	1,481	DCON2
2B29	BI30X50	2250,000	241,526	DCON3	241,526	DCON3	1,062	DCON2
2B29	BI30X50	4275,000	749,092	DCON3	600,966	DCON8	1,410	DCON2
2B30	BI30X50	225,000	797,885	DCON4	584,860	DCON7	1,454	DCON2
2B30	BI30X50	2250,000	247,539	DCON3	247,539	DCON3	1,035	DCON2
2B30	BI30X50	4275,000	768,426	DCON3	595,560	DCON8	1,426	DCON2
2B31	BI30X50	225,000	856,439	DCON4	545,456	DCON7	1,736	DCON2
2B31	BI30X50	2250,000	284,698	DCON3	236,838	DCON2	1,061	DCON2
2B31	BI30X50	4275,000	888,605	DCON3	546,579	DCON8	1,764	DCON2
2B32	BI30X50	225,000	931,063	DCON4	507,531	DCON7	1,827	DCON2
2B32	BI30X50	2500,000	307,757	DCON3	331,939	DCON2	1,012	DCON2
2B32	BI30X50	4775,000	964,176	DCON3	600,008	DCON8	1,784	DCON2
2C10	B25X40	0,000	928,184	DCON3	443,773	DCON3	1,350	EM
2C10	B25X40	2250,000	255,118	DCON2	311,148	DCON2	0,873	EM
2C10	B25X40	4500,000	904,978	DCON4	156,813	DCON3	1,027	EM
2C11	B25X40	0,000	935,295	DCON4	447,002	DCON4	1,342	EM
2C11	B25X40	2250,000	287,262	DCON2	275,293	DCON2	0,864	EM
2C11	B25X40	4500,000	311,148	DCON3	192,031	DCON3	1,041	EM
2C12	B25X40	0,000	397,764	DCON4	233,209	DCON2	0,902	DCON10
2C12	B25X40	2250,000	140,873	DCON2	311,148	DCON2	0,603	DCON10
2C12	B25X40	4500,000	423,548	DCON3	284,431	DCON2	0,932	DCON10
2C13	B25X40	0,000	470,835	DCON4	283,036	DCON2	0,932	DCON10
2C13	B25X40	2250,000	140,188	DCON2	311,148	DCON2	0,603	DCON10
2C13	B25X40	4500,000	408,809	DCON3	238,478	DCON2	0,904	DCON10
2C14	B25X40	0,000	341,476	DCON4	224,170	DCON4	1,035	EM
2C14	B25X40	2250,000	202,956	DCON2	311,148	DCON2	0,762	EM
2C14	B25X40	4500,000	802,903	DCON3	386,417	DCON3	1,240	EM
2C15	B25X40	0,000	699,212	DCON3	338,310	DCON3	1,109	EM
2C15	B25X40	2500,000	173,606	DCON1	311,148	DCON1	0,631	EM
2C15	B25X40	5000,000	695,625	DCON4	311,148	DCON4	1,030	EM
2C16	B25X40	0,000	311,148	DCON3	188,134	DCON3	0,984	EM

2016	B25X40	2150,000	296,848	D20N3	701,080	D20N2	0,774	EM
2016	B35X40	4500,000	809,074	D20N4	388,161	D40N4	1,151	EM
2017	B25X40	0,000	447,602	D20N3	290,080	D20N2	0,430	D20N10
2017	B25X40	2150,000	196,847	D20N3	311,148	D20N3	0,504	D20N10
2017	B35X40	4500,000	407,103	D40N4	138,035	D20N2	0,305	D40N10
2018	B25X40	0,000	414,593	D20N3	249,643	D20N2	0,956	EM
2018	B25X40	2150,000	136,447	D20N3	311,148	D20N3	0,484	EM
2018	B35X40	4500,000	439,947	D20N4	276,649	D20N1	0,971	EM
2019	B25X40	0,000	806,156	D20N3	476,724	D20N3	1,170	EM
2019	B25X40	2150,000	264,363	D20N3	279,437	D20N3	0,649	EM
2019	B35X40	4500,000	186,800	D20N4	214,748	D20N4	1,031	EM
2020	B25X40	0,000	384,348	D20N4	423,471	D20N4	1,035	EM
2020	B25X40	2150,000	264,361	D20N3	311,148	D20N3	0,648	EM
2020	B35X40	4500,000	180,405	D20N3	138,830	D20N3	0,890	EM
2021	B25X40	0,000	374,067	D20N4	418,102	D20N3	1,011	EM
2021	B25X40	2150,000	151,401	D20N3	311,148	D20N3	0,883	EM
2021	B35X40	4500,000	266,847	D20N4	135,068	D20N3	0,985	EM
2022	B25X40	0,000	444,593	D20N4	405,980	D20N4	1,277	EM
2022	B25X40	2150,000	136,034	D20N3	276,567	D20N3	0,805	EM
2022	B35X40	4500,000	321,513	D20N3	211,266	D20N3	1,010	EM
2023	B25X40	0,000	418,632	D20N4	392,309	D20N4	0,950	EM
2023	B25X40	2150,000	185,100	D20N3	311,148	D20N3	0,496	EM
2023	B35X40	4500,000	455,785	D20N3	272,266	D20N2	0,967	EM
2024	B25X40	0,000	474,374	D20N4	295,375	D20N2	0,936	D20N10
2024	B25X40	2150,000	141,396	D20N3	311,148	D20N3	0,596	D20N10
2024	B35X40	4500,000	401,213	D20N3	233,999	D20N2	0,903	D20N10
2025	B25X40	0,000	311,148	D20N4	192,403	D20N4	0,986	EM
2025	B25X40	2150,000	134,513	D20N3	401,267	D20N3	0,048	EM
2025	B35X40	4500,000	302,408	D20N3	386,182	D20N3	1,246	EM
2026	B25X40	0,000	497,229	D20N4	337,884	D20N4	1,107	EM
2026	B25X40	2500,000	173,150	D20N3	311,148	D20N3	0,680	EM
2026	B35X40	8000,000	585,096	D20N3	311,148	D20N3	1,030	EM
2027	B25X40	950,000	388,488	D20N5	199,862	D20N5	1,464	D20N1
2027	B25X40	1425,000	99,074	D20N5	176,163	D20N4	0,961	D20N1
2027	B35X40	2500,000	311,148	D20N5	311,148	D20N6	1,278	D20N2
2028	B25X40	4875,000	95,249	D20N5	95,249	D20N5	0,771	D20N2
2028	B25X40	2500,000	311,148	D20N4	309,548	D20N5	1,114	D20N1
2029	B25X40	950,000	929,202	D20N6	311,148	D20N5	1,827	D20N2
2029	B25X40	1425,000	108,838	D20N5	128,838	D20N5	0,976	D20N1
2029	B35X40	2500,000	296,949	D20N5	159,815	D20N5	1,829	D20N2
2030	B25X40	150,000	421,579	D20N5	275,775	D20N5	1,461	D20N1
2030	B25X40	1325,000	136,626	D20N5	136,626	D20N5	1,140	D20N2
2030	B35X40	2500,000	508,668	D20N4	166,229	D20N5	1,825	D20N2
2031	B25X40	150,000	374,452	D20N5	311,148	D20N6	1,463	D20N1
2031	B25X40	1325,000	182,435	D20N6	182,435	D20N6	1,268	D20N2
2031	B35X40	2500,000	568,694	D20N5	311,148	D20N6	1,758	D20N2
2032	B25X40	150,000	351,508	D20N5	311,148	D20N6	1,548	D20N2
2032	B25X40	1325,000	175,469	D20N4	175,469	D20N6	1,036	D20N2
2032	B35X40	2500,000	546,525	D20N4	311,148	D20N5	1,887	D20N2
2033	B25X40	150,000	350,831	D20N5	311,148	D20N6	1,546	D20N2
2033	B25X40	1325,000	176,410	D20N6	176,410	D20N6	1,241	D20N2
2033	B35X40	2500,000	549,370	D20N4	311,148	D20N6	1,892	D20N2
2034	B25X40	150,000	376,570	D20N5	311,148	D20N6	1,466	D20N1
2034	B25X40	1325,000	183,802	D20N5	183,802	D20N6	1,274	D20N2
2034	B35X40	2500,000	573,390	D20N4	311,148	D20N5	1,958	D20N2
2035	B25X40	150,000	423,981	D20N5	311,148	D20N10	1,267	D20N2
2035	B25X40	1325,000	137,350	D20N5	137,350	D20N5	1,099	D20N2
2035	B35X40	2500,000	511,509	D20N4	311,148	D20N5	1,409	D20N2
2036	B25X40	150,000	331,667	D20N5	333,853	D20N5	1,243	D20N2
2036	B25X40	1425,000	139,411	D20N5	139,411	D20N5	1,077	D20N2
2036	B35X40	2500,000	490,540	D20N5	281,451	D20N5	1,480	D20N2
2037	B25X40	150,000	313,989	D20N5	311,148	D20N5	1,040	D20N2
2037	B25X40	1425,000	105,718	D20N5	105,718	D20N5	0,822	D20N1
2037	B35X40	2500,000	373,008	D20N5	311,148	D20N5	1,021	D20N2
2038	B25X40	105,000	310,565	D20N3	224,907	D20N4	1,189	D20N2
2038	B35X40	1350,000	108,516	D20N4	138,286	D20N2	0,845	D20N2
2039	B25X40	105,000	395,724	D20N3	280,454	D20N3	1,165	D20N2

2038	BI45X40	1081,000	160,474	DCON3	104,474	DCON3	0,875	DCON1
2039	BI5X40	3875,000	200,922	DCON4	349,757	DCON3	0,814	DCON2
2040	BI5X40	125,000	310,481	DCON2	209,306	DCON3	0,761	DCON3
2040	BI5X40	2150,000	178,300	DCON3	120,566	DCON3	0,491	DCON1
2040	BI5X40	4875,000	244,100	DCON4	305,912	DCON4	0,843	DCON1
2041	BI5X40	125,000	415,087	DCON3	311,148	DCON3	0,973	DCON3
2041	BI5X40	2150,000	178,877	DCON3	140,498	DCON3	0,541	DCON2
2041	BI5X40	4875,000	400,500	DCON4	281,790	DCON3	0,990	DCON2
2042	BI5X40	125,000	497,579	DCON4	401,141	DCON3	0,997	DCON3
2042	BI5X40	2150,000	178,414	DCON3	209,448	DCON3	0,443	DCON1
2042	BI5X40	4875,000	569,013	DCON3	255,006	DCON3	0,987	DCON2
2043	BI5X40	125,000	311,148	DCON4	217,617	DCON3	0,764	DCON1
2043	BI5X40	2150,000	193,415	DCON3	174,183	DCON3	0,501	DCON4
2043	BI5X40	4875,000	479,802	DCON3	143,281	DCON3	0,870	DCON5
2044	BI5X40	125,000	994,283	DCON4	454,980	DCON4	0,918	EM
2044	BI5X40	2500,000	178,413	DCON4	347,464	DCON3	0,412	EM
2044	BI5X40	4875,000	911,502	DCON3	504,793	DCON3	0,545	EM
3A10	BI45X70	0,000	2344,926	DCON6	1086,485	DCON6	5,756	DCON2
3A10	BI45X70	1625,000	1011,143	DCON5	788,653	DCON5	5,394	DCON2
3A10	BI45X70	3900,000	0,000	DCON1	1173,578	DCON6	5,084	DCON2
3A11	BI45X70	250,000	1987,515	DCON5	1049,481	DCON6	5,571	DCON2
3A11	BI45X70	1625,000	517,171	DCON5	888,105	DCON5	5,183	DCON2
3A11	BI45X70	3900,000	0,000	DCON1	962,678	DCON2	1,084	DCON1
3A12	BI45X70	0,000	0,000	DCON1	497,432	DCON2	2,783	DCON1
3A12	BI45X70	550,000	805,747	DCON5	787,048	DCON5	3,998	DCON1
3A12	BI45X70	1100,000	1011,143	DCON5	568,008	DCON5	3,110	DCON1
3A13	BI45X70	0,000	0,000	DCON1	497,934	DCON2	1,780	DCON1
3A13	BI45X70	550,000	805,845	DCON5	787,538	DCON5	3,984	DCON1
3A13	BI45X70	1100,000	1011,143	DCON5	568,352	DCON5	3,106	DCON1
3A14	BI45X70	0,000	0,000	DCON1	1139,058	DCON6	1,409	DCON2
3A14	BI45X70	2000,000	811,747	DCON5	1017,141	DCON5	0,859	DCON1
3A14	BI45X70	4000,000	0,000	DCON1	1138,436	DCON6	1,411	DCON2
3A15	BI45X70	0,000	0,000	DCON1	1316,406	DCON6	1,608	DCON2
3A15	BI45X70	2000,000	371,819	DCON5	1422,057	DCON5	1,049	DCON2
3A15	BI45X70	4000,000	0,000	DCON1	1370,015	DCON6	1,548	DCON2
3A16	BI45X70	0,000	0,000	DCON1	1383,236	DCON6	1,850	DCON2
3A16	BI45X70	2000,000	396,441	DCON5	1587,905	DCON5	1,584	DCON2
3A16	BI45X70	4000,000	0,000	DCON1	1425,842	DCON6	1,804	DCON2
3A17	BI45X70	0,000	0,000	DCON1	789,099	DCON2	1,416	DCON2
3A17	BI45X70	2000,000	261,457	DCON5	1050,287	DCON5	0,840	DCON2
3A17	BI45X70	4000,000	0,000	DCON1	1011,143	DCON5	1,218	DCON2
3A18	BI45X70	0,000	0,000	DCON1	1363,686	DCON6	1,855	DCON2
3A18	BI45X70	2000,000	351,968	DCON5	1468,761	DCON5	1,090	DCON2
3A18	BI45X70	4000,000	0,000	DCON1	1404,901	DCON6	1,211	DCON2
3A19	BI45X70	0,000	0,000	DCON1	1380,256	DCON6	1,586	DCON2
3A19	BI45X70	2000,000	324,840	DCON5	1512,901	DCON5	1,050	DCON1
3A19	BI45X70	4000,000	0,000	DCON1	1389,401	DCON6	1,594	DCON1
3A20	BI45X70	0,000	0,000	DCON1	1159,921	DCON6	1,439	DCON2
3A20	BI45X70	2681,000	317,410	DCON5	1791,614	DCON5	0,875	EM
3A20	BI45X70	4000,000	0,000	DCON1	1183,258	DCON6	1,426	DCON2
3A21	BI45X70	0,000	0,000	DCON1	1011,143	DCON2	2,706	DCON2
3A21	BI45X70	1400,000	770,863	DCON5	500,736	DCON5	3,119	DCON2
3A21	BI45X70	2800,000	891,150	DCON6	442,061	DCON6	3,790	DCON2
3A22	BI45X70	0,000	0,000	DCON1	1011,143	DCON2	2,711	DCON2
3A22	BI45X70	1400,000	771,086	DCON5	500,691	DCON5	3,124	DCON2
3A22	BI45X70	2800,000	895,702	DCON6	443,755	DCON6	3,785	DCON2
3A23	BI45X70	250,000	1243,573	DCON6	1144,623	DCON6	3,069	DCON2
3A23	BI45X70	1125,000	786,453	DCON5	1011,143	DCON5	2,933	DCON2
3A23	BI45X70	2000,000	103,906	DCON10	916,820	DCON5	2,826	DCON2
3A24	BI45X70	0,000	0,000	DCON1	824,973	DCON2	4,803	DCON2
3A24	BI45X70	875,000	515,876	DCON5	916,681	DCON5	4,845	DCON2
3A24	BI45X70	1750,000	1092,231	DCON6	654,455	DCON5	5,130	DCON2
3A25	BI45X70	0,000	0,000	DCON1	825,565	DCON2	4,766	DCON2
3A25	BI45X70	875,000	559,364	DCON5	914,491	DCON4	5,008	DCON2
3A25	BI45X70	1750,000	1360,182	DCON5	683,907	DCON5	5,249	DCON2
3A26	BI45X70	250,000	1372,795	DCON5	1206,985	DCON6	2,594	DCON2
3A26	BI45X70	1125,000	891,901	DCON5	1011,147	DCON5	2,964	DCON2
3A26	BI45X70	2000,000	101,972	DCON10	817,916	DCON5	2,161	DCON2

3A06	BI45X70	675,000	147,027	DCON5	910,110	DCON6	1,779	DCON3
3A07	BI45X70	1687,000	678,000	DCON5	890,674	DCON6	1,374	DCON2
3A08	BI45X70	0,000	0,000	DCON1	791,607	DCON2	2,640	DCON2
3A09	BI45X70	1875,000	968,451	DCON6	890,510	DCON5	5,163	DCON1
3A10	BI45X70	0,000	0,000	DCON1	1316,561	DCON4	5,748	DCON2
3A11	BI45X70	1875,000	1011,143	DCON5	997,797	DCON6	5,042	DCON2
3A12	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A13	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A14	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A15	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A16	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A17	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A18	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A19	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A20	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A21	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A22	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A23	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A24	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A25	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A26	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A27	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A28	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A29	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A30	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A31	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A32	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A33	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A34	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A35	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A36	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A37	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A38	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A39	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A40	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A41	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A42	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A43	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3A44	BI45X70	1875,000	1011,143	DCON5	788,631	DCON10	3,974	DCON5
3B10	BI30X50	375,000	706,717	DCON3	893,939	DCON3	2,386	DCON2
3B11	BI30X50	1862,500	279,085	DCON3	279,085	DCON3	1,560	DCON2
3B12	BI30X50	3500,000	931,852	DCON3	737,170	DCON3	1,509	DCON1
3B13	BI30X50	375,000	706,717	DCON3	893,939	DCON3	2,386	DCON2
3B14	BI30X50	2062,500	353,685	DCON3	359,925	DCON3	1,524	DCON2
3B14	BI30X50	4375,000	1156,520	DCON3	600,092	DCON3	2,187	DCON2

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB15	BI30X50	2250,000	344,581	DC0N3	344,582	DC0N3	1,366	DC0N1
BB14	BI30X50	4275,000	1066,046	DC0N2	758,135	DC0N2	2,047	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB16	BI30X50	2250,000	388,047	DC0N3	388,047	DC0N3	1,286	DC0N1
BB16	BI30X50	4275,000	1040,359	DC0N2	704,551	DC0N2	2,014	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB17	BI30X50	2250,000	300,146	DC0N3	690,145	DC0N3	1,460	DC0N1
BB17	BI30X50	4275,000	1038,690	DC0N3	416,794	DC0N4	2,101	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB18	BI30X50	2250,000	378,197	DC0N3	378,198	DC0N3	1,279	DC0N2
BB18	BI30X50	4275,000	1107,956	DC0N4	635,699	DC0N3	2,119	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB19	BI30X50	2250,000	368,206	DC0N3	396,208	DC0N3	1,336	DC0N1
BB19	BI30X50	4275,000	1065,801	DC0N3	456,858	DC0N3	2,063	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB20	BI30X50	1200,000	463,388	DC0N4	474,140	DC0N3	2,223	DC0N2
BB20	BI30X50	3075,000	1208,616	DC0N4	941,073	DC0N3	2,766	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB21	BI30X50	1000,000	363,436	DC0N3	474,147	DC0N4	1,298	DC0N2
BB21	BI30X50	3375,000	938,830	DC0N4	246,452	DC0N3	2,028	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB22	BI30X50	2250,000	934,979	DC0N3	348,815	DC0N2	1,432	DC0N2
BB22	BI30X50	4275,000	1203,210	DC0N4	219,801	DC0N3	2,441	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB23	BI30X50	2250,000	327,498	DC0N3	327,498	DC0N3	1,205	DC0N2
BB23	BI30X50	4275,000	1023,109	DC0N3	691,986	DC0N3	1,974	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB24	BI30X50	2250,000	348,000	DC0N3	348,003	DC0N3	1,314	DC0N1
BB24	BI30X50	4275,000	1032,420	DC0N3	702,714	DC0N3	1,998	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB25	BI30X50	1875,000	372,047	DC0N4	530,172	DC0N3	1,909	DC0N2
BB25	BI30X50	3825,000	987,195	DC0N4	384,554	DC0N3	2,410	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB26	BI30X50	1350,000	247,744	DC0N3	247,744	DC0N3	1,836	DC0N2
BB26	BI30X50	3150,000	0,000	DC0N1	418,713	DC0N2	1,406	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB27	BI30X50	1350,000	252,515	DC0N4	290,447	DC0N3	1,877	DC0N2
BB27	BI30X50	2250,000	0,000	DC0N1	423,616	DC0N2	1,446	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB28	BI30X50	1800,500	365,698	DC0N3	545,599	DC0N4	1,942	DC0N2
BB28	BI30X50	3825,000	932,003	DC0N3	552,444	DC0N3	2,365	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB29	BI30X50	2250,000	917,065	DC0N3	917,065	DC0N3	1,405	DC0N2
BB29	BI30X50	4275,000	994,730	DC0N3	235,499	DC0N3	1,998	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB30	BI30X50	2250,000	326,742	DC0N3	326,742	DC0N3	1,290	DC0N2
BB30	BI30X50	4275,000	1026,881	DC0N3	683,839	DC0N3	1,978	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB31	BI30X50	2250,000	373,050	DC0N3	327,428	DC0N2	1,347	DC0N1
BB31	BI30X50	4275,000	1190,803	DC0N3	644,025	DC0N3	2,355	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BB32	BI30X50	2400,000	411,302	DC0N3	401,472	DC0N2	1,207	DC0N1
BB32	BI30X50	4725,000	1010,078	DC0N3	717,756	DC0N3	2,380	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BCX1	B25X40	0,000	377,415	DC0N3	647,474	DC0N3	1,165	BM
BCX1	B25X40	2250,000	283,659	DC0N4	311,148	DC0N2	0,842	BM
BCX1	B25X40	4500,000	905,681	DC0N4	435,988	DC0N4	1,919	BM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BCX2	B25X40	0,000	524,901	DC0N3	290,044	DC0N3	1,033	BM
BCX2	B25X40	2250,000	145,194	DC0N2	311,148	DC0N2	0,556	BM
BCX2	B25X40	4500,000	435,758	DC0N4	238,080	DC0N2	0,992	BM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BCX3	B25X40	0,000	364,600	DC0N3	180,178	DC0N2	0,807	DC0N10
BCX3	B25X40	2250,000	164,198	DC0N2	311,149	DC0N2	0,603	DC0N10
BCX3	B25X40	4500,000	551,905	DC0N4	311,140	DC0N2	1,082	DC0N10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BCX4	B25X40	0,000	1115,859	DC0N3	601,834	DC0N3	1,666	BM
BCX4	B25X40	2250,000	209,481	DC0N2	905,905	DC0N2	1,088	BM
BCX4	B25X40	4500,000	311,149	DC0N4	283,094	DC0N3	1,167	BM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BCX5	B25X40	0,000	688,605	DC0N4	475,745	DC0N4	1,868	BM
BCX5	B25X40	2250,000	213,537	DC0N2	301,734	DC0N2	0,709	BM

3CX6	B25X40	4500,000	311,148	DCON1	155,548	DCON2	1,001	EM
3CX6	B25X40	0,000	878,583	DCON3	421,624	DCON3	1,259	EM
3CX6	B25X40	2250,000	210,610	DCON2	306,061	DCON2	0,781	EM
3CX6	B25X40	4500,000	310,811	DCON4	154,068	DCON3	1,001	EM
3CX7	B25X40	0,000	1124,460	DCON4	591,871	DCON4	1,574	EM
3CX7	B25X40	2250,000	272,520	DCON2	301,343	DCON2	1,090	EM
3CX7	B25X40	4500,000	311,140	DCON3	281,415	DCON4	1,109	EM
3CX8	B25X40	0,000	375,896	DCON4	198,653	DCON2	0,912	DCON10
3CX8	B25X40	2250,000	154,857	DCON2	311,148	DCON2	0,591	DCON10
3CX8	B25X40	4500,000	425,564	DCON3	411,142	DCON3	1,021	DCON10
3CX9	B25X40	0,000	923,473	DCON4	381,595	DCON3	1,030	EM
3CX9	B25X40	2250,000	144,406	DCON1	311,148	DCON2	0,503	EM
3CX9	B25X40	4500,000	497,040	DCON3	238,162	DCON3	0,948	EM
3CY1	B25X40	150,000	905,402	DCON3	477,984	DCON3	1,076	DCON1
3CY1	B25X40	2250,000	162,802	DCON3	224,900	DCON2	0,630	DCON1
3CY1	B25X40	4350,000	508,940	DCON4	395,598	DCON3	1,070	DCON2
3CY2	B25X40	150,000	913,150	DCON4	470,056	DCON3	1,089	DCON2
3CY2	B25X40	2250,000	151,348	DCON3	234,967	DCON2	0,640	DCON1
3CY2	B25X40	4350,000	500,738	DCON5	281,636	DCON5	1,035	DCON2
3CY3	B25X40	150,000	859,115	DCON10	452,976	DCON5	1,074	DCON1
3CY3	B25X40	1200,000	165,886	DCON5	159,886	DCON6	1,516	DCON2
3CY3	B25X40	2250,000	486,650	DCON5	311,148	DCON5	1,209	DCON2
3CY4	B25X40	150,000	420,790	DCON6	486,953	DCON9	1,590	DCON2
3CY4	B25X40	1200,000	184,040	DCON5	194,040	DCON6	1,644	DCON2
3CY4	B25X40	2250,000	606,258	DCON6	388,531	DCON10	1,698	DCON2
3CY5	B25X40	150,000	402,770	DCON6	451,148	DCON9	1,579	DCON2
3CY5	B25X40	1200,000	140,258	DCON5	201,258	DCON6	1,733	DCON2
3CY5	B25X40	2250,000	634,953	DCON6	396,598	DCON10	1,787	DCON2
3CY6	B25X40	150,000	375,373	DCON10	477,428	DCON9	1,463	DCON1
3CY6	B25X40	1200,000	166,878	DCON5	166,878	DCON6	1,590	DCON2
3CY6	B25X40	2250,000	512,512	DCON5	311,148	DCON5	1,781	DCON2
3CY7	B25X40	150,000	378,465	DCON6	311,148	DCON6	1,340	DCON1
3CY7	B25X40	1425,000	127,195	DCON6	115,139	DCON2	0,910	DCON2
3CY7	B25X40	2600,000	391,762	DCON5	311,148	DCON6	1,340	DCON2
3CY8	B25X40	150,000	389,460	DCON5	311,148	DCON6	1,156	DCON1
3CY8	B25X40	1375,000	110,613	DCON5	110,613	DCON5	0,914	DCON2
3CY8	B25X40	2600,000	399,891	DCON6	311,148	DCON5	1,189	DCON1
3CY9	B25X40	250,000	312,888	DCON10	376,864	DCON5	1,152	DCON2
3CY9	B25X40	1425,000	122,485	DCON5	135,522	DCON2	1,002	DCON2
3CY9	B25X40	2600,000	311,746	DCON5	304,909	DCON5	1,366	DCON2
4A10	BI45X70	250,000	1277,585	DCON6	1011,145	DCON5	2,462	DCON2
4A10	BI45X70	1825,000	414,763	DCON6	830,070	DCON5	2,219	DCON2
4A10	BI45X70	3000,000	0,000	DCON1	645,585	DCON2	2,008	DCON1
4A11	BI45X70	0,000	0,000	DCON1	363,580	DCON2	1,088	EM
4A11	BI45X70	550,000	95,340	DCON2	175,010	DCON6	1,143	EM
4A11	BI45X70	1100,000	490,594	DCON5	314,409	DCON5	1,211	EM
4A12	BI45X70	0,000	0,000	DCON1	381,212	DCON2	1,249	DCON6
4A12	BI45X70	550,000	94,754	DCON2	171,778	DCON6	1,310	DCON6
4A12	BI45X70	1100,000	496,498	DCON5	317,477	DCON5	1,293	DCON6
4A13	BI45X70	0,000	0,000	DCON1	694,477	DCON2	2,511	DCON2
4A13	BI45X70	875,000	590,611	DCON5	705,537	DCON6	2,626	DCON2
4A13	BI45X70	1750,000	1188,945	DCON5	774,733	DCON5	2,812	DCON2
4A14	BI45X70	0,000	0,000	DCON1	659,105	DCON2	2,590	DCON2
4A14	BI45X70	875,000	589,787	DCON5	742,513	DCON6	2,704	DCON2
4A14	BI45X70	1750,000	1181,690	DCON5	830,016	DCON5	2,890	DCON2
4A17	BI45X70	0,000	0,000	DCON1	1271,586	DCON5	1,485	DCON1
4A17	BI45X70	2000,000	375,506	DCON2	1524,172	DCON2	0,878	DCON6
4A17	BI45X70	4000,000	0,000	DCON1	1165,249	DCON5	1,628	DCON1
4A18	BI45X70	0,000	0,000	DCON1	1543,807	DCON5	1,691	DCON2
4A18	BI45X70	2000,000	444,535	DCON2	1795,899	DCON2	1,101	DCON2
4A18	BI45X70	4000,000	0,000	DCON1	1382,166	DCON5	1,867	DCON2
4A19	BI45X70	0,000	0,000	DCON1	1312,170	DCON5	1,279	DCON2
4A19	BI45X70	2000,000	363,921	DCON2	1373,419	DCON2	0,926	DCON2
4A19	BI45X70	4000,000	0,000	DCON1	1073,494	DCON5	1,480	DCON2
4A20	BI45X70	0,000	0,000	DCON1	1313,483	DCON5	1,281	DCON2
4A20	BI45X70	2000,000	364,863	DCON2	1374,004	DCON2	0,932	DCON2
4A20	BI45X70	4000,000	0,000	DCON1	1075,855	DCON5	1,485	DCON2
4A21	BI45X70	0,000	0,000	DCON1	1528,090	DCON5	1,574	DCON2

4A21	BI45X70	7000,000	470,108	DC0N3	1601,106	DC0N5	1,100	DC0N2
4A21	BI45X70	4000,000	0,000	DC0N1	1273,284	DC0N5	1,068	DC0N2
4A22	BI45X70	0,000	0,000	DC0N1	1152,086	DC0N5	1,161	DC0N2
4A22	BI45X70	7000,000	704,100	DC0N3	1706,448	DC0N5	1,051	DC0N2
4A22	BI45X70	4000,000	75,813	DC0N3	1037,900	DC0N5	1,405	DC0N2
4A24	BI45X70	0,000	0,000	DC0N1	951,474	DC0N2	1,480	DC0N1
4A24	BI45X70	1000,000	104,860	DC0N3	525,439	DC0N3	1,584	DC0N1
4A24	BI45X70	2600,000	458,170	DC0N5	596,130	DC0N5	2,019	DC0N2
4A25	BI45X70	0,000	0,000	DC0N1	504,325	DC0N1	1,487	DC0N1
4A25	BI45X70	1600,000	160,364	DC0N3	497,877	DC0N3	1,604	DC0N1
4A25	BI45X70	2600,000	468,300	DC0N5	685,070	DC0N5	2,018	DC0N2
4A26	BI45X70	240,000	1035,526	DC0N6	1060,538	DC0N9	2,414	DC0N3
4A26	BI45X70	1175,000	225,087	DC0N5	1011,143	DC0N5	3,168	DC0N2
4A26	BI45X70	2000,000	85,411	DC0N10	408,337	DC0N5	1,981	DC0N2
4A27	BI45X70	0,000	0,000	DC0N1	750,877	DC0N1	4,185	DC0N3
4A27	BI45X70	935,000	471,577	DC0N4	790,161	DC0N5	4,474	DC0N2
4A27	BI45X70	1750,000	1206,777	DC0N4	751,023	DC0N5	4,060	DC0N2
4A28	BI45X70	0,000	0,000	DC0N1	661,764	DC0N1	9,875	DC0N2
4A28	BI45X70	875,000	515,971	DC0N5	790,714	DC0N5	4,118	DC0N2
4A28	BI45X70	1750,000	1218,141	DC0N5	810,040	DC0N5	4,052	DC0N2
4A29	BI45X70	150,000	1237,245	DC0N5	1104,585	DC0N9	2,442	DC0N2
4A29	BI45X70	1175,000	250,010	DC0N5	1011,143	DC0N5	3,215	DC0N2
4A29	BI45X70	2000,000	84,643	DC0N10	682,176	DC0N5	2,000	DC0N2
4A30	BI45X70	0,000	82,776	DC0N10	805,787	DC0N5	1,815	DC0N2
4A30	BI45X70	1375,000	412,547	DC0N5	688,760	DC0N5	3,104	DC0N2
4A30	BI45X70	2750,000	1170,570	DC0N5	1011,143	DC0N10	1,564	DC0N2
4A31	BI45X70	0,000	0,000	DC0N1	747,606	DC0N2	2,930	DC0N2
4A31	BI45X70	1375,000	690,854	DC0N5	985,684	DC0N5	3,884	DC0N2
4A31	BI45X70	2750,000	1845,586	DC0N5	1011,143	DC0N5	3,891	DC0N2
4A32	BI45X70	0,000	0,000	DC0N1	1203,257	DC0N5	2,672	EM
4A32	BI45X70	1375,000	1057,857	DC0N5	698,941	DC0N5	3,691	EM
4A32	BI45X70	2750,000	2840,245	DC0N5	1561,850	DC0N5	3,319	EM
4A33	BI45X70	0,000	0,000	DC0N1	1306,857	DC0N5	1,900	EM
4A33	BI45X70	1375,000	1055,954	DC0N5	758,877	DC0N5	3,705	EM
4A33	BI45X70	2750,000	3827,748	DC0N5	1447,320	DC0N5	2,545	EM
4A34	BI45X70	0,000	0,000	DC0N1	1081,197	DC0N5	2,354	EM
4A34	BI45X70	1375,000	1011,143	DC0N5	587,484	DC0N5	3,641	EM
4A34	BI45X70	2750,000	2426,314	DC0N5	1171,122	DC0N5	2,757	EM
4A35	BI45X70	0,000	0,000	DC0N1	542,652	DC0N2	3,138	DC0N2
4A35	BI45X70	1375,000	768,987	DC0N5	599,166	DC0N5	3,491	DC0N2
4A35	BI45X70	2750,000	1620,264	DC0N5	1011,143	DC0N5	3,679	DC0N2
4A36	BI45X70	0,000	0,000	DC0N1	545,449	DC0N2	3,136	DC0N2
4A36	BI45X70	1375,000	759,887	DC0N5	599,080	DC0N5	3,494	DC0N2
4A36	BI45X70	2750,000	1620,988	DC0N5	1011,143	DC0N5	3,682	DC0N2
4A37	BI45X70	0,000	0,000	DC0N1	1084,112	DC0N6	2,373	EM
4A37	BI45X70	1375,000	1011,143	DC0N5	599,889	DC0N5	3,560	EM
4A37	BI45X70	2750,000	2449,766	DC0N5	1182,004	DC0N5	2,776	EM
4A38	BI45X70	0,000	0,000	DC0N1	1283,149	DC0N5	2,985	EM
4A38	BI45X70	1375,000	1094,894	DC0N5	768,401	DC0N5	3,193	EM
4A38	BI45X70	2750,000	3046,102	DC0N5	1455,858	DC0N5	2,591	EM
4A39	BI45X70	0,000	69,287	DC0N9	1048,871	DC0N5	1,461	EM
4A39	BI45X70	1375,000	1098,499	DC0N5	644,540	DC0N5	3,468	EM
4A39	BI45X70	2750,000	2883,026	DC0N5	1269,841	DC0N5	2,884	EM
4A40	BI45X70	0,000	0,000	DC0N1	838,798	DC0N2	3,126	DC0N2
4A40	BI45X70	1375,000	497,974	DC0N5	597,968	DC0N5	3,579	DC0N2
4A40	BI45X70	2750,000	1865,444	DC0N5	1011,143	DC0N5	4,079	DC0N2
4A41	BI45X70	0,000	92,612	DC0N10	613,794	DC0N5	1,909	DC0N1
4A41	BI45X70	1375,000	481,548	DC0N5	702,924	DC0N5	3,065	DC0N2
4A41	BI45X70	2750,000	1331,099	DC0N5	1011,143	DC0N10	2,656	DC0N2
4A43	BI45X70	0,000	642,196	DC0N2	318,974	DC0N2	1,588	DC0N1
4A43	BI45X70	1125,000	440,594	DC0N4	554,156	DC0N3	3,487	DC0N2
4A43	BI45X70	2250,000	324,886	DC0N4	751,503	DC0N3	1,386	DC0N2
4A45	BI45X70	0,000	0,000	DC0N1	229,666	DC0N2	1,809	DC0N2
4A45	BI45X70	1000,000	187,504	DC0N3	192,605	DC0N3	1,869	DC0N2
4A45	BI45X70	2000,000	554,679	DC0N2	275,780	DC0N2	1,059	DC0N2
4A50	BI45X70	0,000	0,000	DC0N1	244,009	DC0N2	2,047	DC0N2
4A50	BI45X70	1000,000	158,609	DC0N3	155,031	DC0N3	2,132	DC0N2
4A50	BI45X70	2000,000	626,882	DC0N2	311,421	DC0N2	1,007	DC0N1

4A82	BI45X70	0,000	579,480	DC0N3	369,340	DC0N3	0,640	DC0N2
4A82	BI45X70	1125,000	497,837	DC0N3	266,908	DC0N4	0,319	DC0N2
4A82	BI45X70	2250,000	920,644	DC0N3	708,849	DC0N4	2,218	DC0N2
4B10	BI30X50	450,000	980,755	DC0N3	648,108	DC0N3	1,647	DC0N2
4B10	BI30X50	2362,500	914,940	DC0N3	914,940	DC0N3	1,391	DC0N1
4B10	BI30X50	4275,000	1025,707	DC0N4	616,430	DC0N7	2,076	DC0N2
4B11	BI30X50	2362,500	911,431	DC0N3	602,473	DC0N3	1,784	DC0N1
4B11	BI30X50	4275,000	1012,401	DC0N3	604,727	DC0N8	1,826	DC0N1
4B12	BI30X50	225,000	971,113	DC0N4	636,140	DC0N7	1,891	DC0N2
4B12	BI30X50	2362,500	913,611	DC0N3	913,611	DC0N3	1,388	DC0N1
4B12	BI30X50	4275,000	996,159	DC0N3	615,894	DC0N8	1,805	DC0N1
4B13	BI30X50	225,000	1019,602	DC0N4	632,477	DC0N7	2,261	DC0N2
4B13	BI30X50	1968,750	474,618	DC0N4	307,781	DC0N3	1,730	DC0N1
4B13	BI30X50	3600,000	474,147	DC0N3	615,869	DC0N4	1,904	DC0N1
4B14	BI30X50	225,000	1069,080	DC0N3	666,775	DC0N8	0,435	DC0N3
4B14	BI30X50	812,500	718,000	DC0N3	439,775	DC0N8	0,337	DC0N3
4B14	BI30X50	1000,000	474,147	DC0N3	606,202	DC0N4	0,294	DC0N2
4B15	BI30X50	0,000	478,336	DC0N7	744,942	DC0N4	1,968	DC0N2
4B15	BI30X50	1968,750	481,485	DC0N4	480,617	DC0N3	1,886	DC0N1
4B15	BI30X50	3375,000	1280,017	DC0N4	871,894	DC0N7	2,481	DC0N1
4B16	BI30X50	225,000	1017,104	DC0N3	723,930	DC0N8	1,316	DC0N1
4B16	BI30X50	812,500	704,806	DC0N7	708,147	DC0N4	1,806	DC0N1
4B16	BI30X50	1000,000	474,147	DC0N3	702,984	DC0N4	1,083	DC0N1
4B17	BI30X50	225,000	1032,061	DC0N3	716,660	DC0N7	1,960	DC0N1
4B17	BI30X50	812,500	711,860	DC0N4	708,983	DC0N4	1,850	DC0N1
4B17	BI30X50	1000,000	474,147	DC0N4	699,906	DC0N3	1,127	DC0N1
4B18	BI30X50	0,000	478,191	DC0N8	741,948	DC0N3	1,959	DC0N2
4B18	BI30X50	1687,500	796,089	DC0N7	696,089	DC0N3	1,850	DC0N1
4B18	BI30X50	3375,000	1256,447	DC0N3	689,286	DC0N8	2,455	DC0N1
4B19	BI30X50	225,000	838,389	DC0N3	254,434	DC0N4	2,801	DC0N2
4B19	BI30X50	1406,250	485,948	DC0N4	474,147	DC0N3	1,194	DC0N2
4B19	BI30X50	2475,000	1148,162	DC0N3	838,073	DC0N7	3,573	DC0N2
4B20	BI30X50	225,000	917,883	DC0N3	736,173	DC0N8	2,237	DC0N2
4B20	BI30X50	1406,250	590,467	DC0N3	474,147	DC0N4	1,790	DC0N2
4B20	BI30X50	1575,000	804,475	DC0N4	282,096	DC0N3	2,170	DC0N2
4B21	BI30X50	225,000	1005,218	DC0N3	646,112	DC0N8	2,226	DC0N2
4B21	BI30X50	2250,000	820,561	DC0N3	838,148	DC0N3	1,385	DC0N2
4B22	BI30X50	225,000	1050,556	DC0N3	609,488	DC0N8	2,210	DC0N2
4B22	BI30X50	2250,000	332,977	DC0N3	966,926	DC0N2	1,219	DC0N1
4B22	BI30X50	4275,000	1040,268	DC0N4	589,945	DC0N7	2,332	DC0N2
4B23	BI30X50	225,000	1080,708	DC0N3	610,249	DC0N8	2,220	DC0N2
4B23	BI30X50	2250,000	349,669	DC0N3	940,852	DC0N2	1,218	DC0N2
4B23	BI30X50	4275,000	1071,678	DC0N4	591,746	DC0N7	2,236	DC0N2
4B24	BI30X50	180,000	758,685	DC0N3	474,147	DC0N3	1,945	DC0N1
4B24	BI30X50	2362,500	253,818	DC0N3	340,764	DC0N2	1,064	DC0N6
4B24	BI30X50	4275,000	921,470	DC0N4	531,986	DC0N7	1,867	DC0N1
4B25	BI30X50	180,000	781,716	DC0N4	474,147	DC0N4	1,946	DC0N1
4B25	BI30X50	2362,500	287,189	DC0N3	343,664	DC0N2	1,065	DC0N6
4B25	BI30X50	4275,000	948,849	DC0N3	547,688	DC0N7	1,887	DC0N1
4B26	BI30X50	225,000	1126,303	DC0N4	580,748	DC0N7	2,309	DC0N2
4B26	BI30X50	2250,000	327,612	DC0N3	340,698	DC0N2	1,301	DC0N2
4B26	BI30X50	4275,000	1029,504	DC0N3	531,991	DC0N8	2,220	DC0N2
4B27	BI30X50	225,000	1087,760	DC0N4	584,032	DC0N7	2,262	DC0N2
4B27	BI30X50	2250,000	309,670	DC0N3	350,418	DC0N2	1,252	DC0N2
4B27	BI30X50	4275,000	1086,309	DC0N3	609,429	DC0N8	2,305	DC0N2
4B28	BI30X50	225,000	1062,370	DC0N4	597,301	DC0N7	2,261	DC0N2
4B28	BI30X50	2250,000	367,697	DC0N3	317,550	DC0N2	1,271	DC0N2
4B28	BI30X50	4275,000	1128,436	DC0N3	587,969	DC0N8	2,281	DC0N2
4B29	BI30X50	225,000	1115,159	DC0N4	569,983	DC0N7	2,165	DC0N1
4B29	BI30X50	2500,000	401,554	DC0N3	461,073	DC0N2	1,191	DC0N6
4B29	BI30X50	4275,000	1075,958	DC0N3	548,089	DC0N8	2,194	DC0N1
4B30	BI30X50	225,000	102,119	DC0N4	38,468	DC0N3	0,204	DC0N6
4B30	BI30X50	1862,500	85,446	DC0N4	59,699	DC0N3	0,117	DC0N6
4B30	BI30X50	3600,000	20,870	DC0N1	11,180	DC0N1	0,185	PM
4B31	BI30X50	225,000	100,714	DC0N3	50,248	DC0N3	0,202	DC0N6
4B31	BI30X50	1862,500	25,097	DC0N3	59,379	DC0N4	0,115	DC0N6
4B31	BI30X50	3600,000	12,478	DC0N1	11,006	DC0N1	0,184	DC0N6
4B32	BI30X50	0,000	26,288	DC0N6	15,539	DC0N5	0,130	DC0N1

4B37	BI30X50	687,500	77,847	DCON6	49,570	DCON5	0,138	DCON5
4B38	BI30X50	1775,000	57,461	DCON6	47,588	DCON5	0,198	DCON1
4B39	BI30X50	0,000	68,379	DCON6	16,427	DCON5	0,194	DCON1
4B40	BI30X50	687,500	58,405	DCON6	47,106	DCON5	0,181	EH
4B41	BI30X50	1775,000	58,532	DCON6	47,101	DCON5	0,199	DCON1
4B34	BI30X50	0,000	0,000	DCON2	24,002	DCON1	0,171	DCON1
4B35	BI30X50	700,000	6,814	DCON2	24,198	DCON2	0,196	DCON1
4B36	BI30X50	1000,000	0,000	DCON1	24,084	DCON2	0,198	DCON1
4B31	BI30X50	0,000	0,000	DCON1	24,104	DCON1	0,170	DCON1
4B32	BI30X50	600,000	6,199	DCON2	24,197	DCON2	0,195	DCON1
4B33	BI30X50	1000,000	0,000	DCON1	24,089	DCON2	0,196	DCON1
4B30	BI30X50	0,000	24,128	DCON2	13,607	DCON2	0,049	EH
4B26	BI30X50	1000,000	6,799	DCON2	9,796	DCON2	0,049	EH
4B06	BI30X50	2400,000	7,707	DCON5	9,803	DCON5	0,049	EH
4B07	BI30X50	0,000	25,913	DCON2	14,650	DCON2	0,050	EH
4B27	BI30X50	1000,000	6,799	DCON2	9,799	DCON2	0,050	EH
4B47	BI30X50	2000,000	7,718	DCON5	9,859	DCON5	0,050	EH
4B28	BI30X50	0,000	6,860	DCON1	8,81,307	DCON5	1,510	DCON5
4B48	BI30X50	700,000	110,512	DCON1	245,268	DCON5	1,532	DCON5
4B49	BI30X50	750,000	350,611	DCON4	115,709	DCON4	1,867	DCON5
4B29	BI30X50	0,000	88,965	DCON4	18,458	DCON4	0,045	EH
4B09	BI30X50	1750,000	4,030	DCON4	45,064	DCON2	0,045	EH
4B08	BI30X50	2500,000	86,230	DCON1	18,195	DCON1	0,045	EH
4B40	BI30X50	0,000	95,563	DCON3	18,067	DCON3	0,045	EH
4B20	BI30X50	1750,000	9,190	DCON3	45,866	DCON2	0,045	EH
4B10	BI30X50	2500,000	26,168	DCON1	13,077	DCON1	0,045	EH
4B41	BI30X50	0,000	0,000	DCON1	5,0,877	DCON5	1,513	DCON5
4B21	BI30X50	875,000	117,641	DCON2	247,860	DCON4	1,532	DCON5
4B11	BI30X50	750,000	347,507	DCON3	114,566	DCON3	1,553	DCON5
4B42	BI30X50	250,000	139,349	DCON5	69,455	DCON5	0,184	EH
4B22	BI30X50	7125,000	88,571	DCON1	108,958	DCON1	0,184	EH
4B12	BI30X50	4100,000	157,662	DCON1	78,574	DCON1	0,184	EH
4B43	BI30X50	250,000	140,349	DCON5	69,962	DCON5	0,185	EH
4B23	BI30X50	8125,000	89,744	DCON1	104,501	DCON1	0,186	EH
4B13	BI30X50	4100,000	157,778	DCON1	78,621	DCON1	0,185	EH
4B44	BI30X50	250,000	200,552	DCON4	99,842	DCON4	0,238	EH
4B24	BI30X50	1375,000	65,156	DCON1	128,972	DCON1	0,238	EH
4B14	BI30X50	4500,000	222,218	DCON1	110,572	DCON1	0,230	EH
4B45	BI30X50	250,000	192,584	DCON3	98,864	DCON3	0,237	EH
4B25	BI30X50	1375,000	64,156	DCON1	144,542	DCON1	0,239	EH
4B15	BI30X50	4500,000	222,112	DCON1	110,523	DCON1	0,237	EH
4BK1	BI30X50	0,000	0,000	DCON1	87,382	DCON4	3,610	DCON1
4BK1	BI30X50	425,000	218,471	DCON1	178,646	DCON1	3,640	DCON1
4BK1	BI30X50	850,000	549,034	DCON1	360,109	DCON1	3,670	DCON1
4BK2	BI30X50	150,000	550,817	DCON1	361,259	DCON1	3,606	DCON1
4BK2	BI30X50	575,000	320,075	DCON1	179,212	DCON1	3,578	DCON1
4BH2	BI30X50	1000,000	0,178	EH	70,420	DCON3	3,548	DCON1
4BK3	BI30X50	150,000	598,841	DCON1	986,431	DCON1	3,649	DCON1
4BK3	BI30X50	875,000	327,586	DCON1	141,357	DCON1	3,619	DCON1
4BK3	BI30X50	1000,000	0,182	EH	69,889	DCON4	3,589	DCON1
4BK4	BI30X50	0,000	0,000	DCON1	87,425	DCON3	3,599	DCON1
4BK4	BI30X50	425,000	317,644	DCON1	178,188	DCON1	3,629	DCON1
4BK4	BI30X50	850,000	549,590	DCON1	359,176	DCON1	3,659	DCON1
4BK5	BI30X50	150,000	447,729	DCON1	321,679	DCON1	3,685	DCON1
4BK5	BI30X50	675,000	140,530	DCON1	110,309	DCON1	3,665	DCON1
4BK5	BI30X50	1000,000	0,773	EH	92,776	DCON1	3,625	DCON1
4BK6	BI30X50	0,000	0,969	EH	83,038	DCON3	2,956	DCON1
4BK6	BI30X50	425,000	198,270	DCON4	114,145	DCON3	2,982	DCON1
4BK6	BI30X50	850,000	463,544	DCON1	329,429	DCON1	3,917	DCON1
4BK7	BI30X50	0,000	0,960	EH	82,633	DCON4	2,946	DCON1
4BK7	BI30X50	475,000	147,701	DCON3	113,768	DCON1	2,870	DCON1
4BK7	BI30X50	950,000	461,987	DCON1	328,966	DCON1	2,806	DCON1
4BK8	BI30X50	150,000	445,870	DCON1	320,870	DCON1	2,668	DCON1
4BK8	BI30X50	525,000	140,065	DCON1	109,804	DCON1	2,636	DCON1
4BK8	BI30X50	1000,000	0,864	EH	51,706	DCON1	2,608	DCON1
4BK9	BI30X50	0,000	93,187	DCON3	61,586	DCON4	3,262	DCON1
4BK9	BI30X50	387,500	114,007	DCON4	151,515	DCON3	3,319	DCON1
4BK9	BI30X50	775,000	474,147	DCON3	305,045	DCON3	3,347	DCON1

4DX1	B25X40	1[illegible],000	571,[illegible]	DC0N3	488,966	DC0N3	1,305	DC0N2
4DX1	B25X40	2250,000	277,087	DC0N4	377,087	DC0N4	1,103	DC0N2
4DX1	B25X40	4175,000	384,197	DC0N4	424,728	DC0N4	1,562	DC0N2
4DX2	B25X40	885,000	489,015	DC0N4	479,257	DC0N3	1,071	DC0N3
4DX2	B25X40	2250,000	271,378	DC0N3	271,378	DC0N3	1,076	DC0N2
4DX2	B25X40	4175,000	371,825	DC0N3	417,239	DC0N3	1,557	DC0N1
4DX3	B25X40	0,000	411,140	DC0N3	311,668	DC0N3	1,191	BM
4DX3	B25X40	2250,000	380,436	DC0N2	282,436	DC0N2	1,111	BH
4DX3	B25X40	4000,000	1121,143	DC0N4	500,452	DC0N4	1,562	BH
4DX4	B25X40	0,000	265,741	DC0N3	266,016	DC0N3	0,418	DC0N10
4DX4	B25X40	2090,000	130,705	DC0N1	311,148	DC0N2	0,900	DC0N10
4DX4	B25X40	4550,000	406,269	DC0N4	221,614	DC0N3	0,900	DC0N10
4DX5	B25X40	0,000	454,194	DC0N3	264,751	DC0N3	1,000	BM
4DX5	B25X40	2090,000	131,715	DC0N2	311,148	DC0N2	0,920	BM
4DX5	B25X40	4550,000	458,916	DC0N4	284,203	DC0N3	0,969	BM
4DX6	B25X40	0,000	226,187	DC0N3	245,793	DC0N3	1,252	BM
4DX6	B25X40	2150,000	197,564	DC0N2	311,148	DC0N1	0,781	BM
4DX6	B25X40	4500,000	196,031	DC0N4	262,707	DC0N4	1,089	BM
4DX7	B25X40	0,000	453,545	DC0N3	287,858	DC0N4	1,260	BM
4DX7	B25X40	2750,000	139,578	DC0N2	311,148	DC0N2	0,702	BM
4DX7	B25X40	4900,000	355,121	DC0N3	257,447	DC0N3	1,089	BM
4DX8	B25X40	0,000	459,474	DC0N4	262,906	DC0N4	1,004	BM
4DX8	B25X40	2250,000	130,286	DC0N2	311,148	DC0N2	0,627	BM
4DX8	B25X40	4500,000	440,473	DC0N3	245,767	DC0N3	0,956	BM
4DX9	B25X40	0,000	414,576	DC0N4	231,600	DC0N4	0,900	DC0N10
4DX9	B25X40	2250,000	131,280	DC0N2	311,148	DC0N2	0,516	DC0N10
4DX9	B25X40	4500,000	467,792	DC0N3	165,911	DC0N3	0,946	DC0N10
4D10	B20X50	0,000	141,448	DC0N1	80,805	DC0N1	0,951	DC0N1
4D10	B20X50	600,000	80,210	DC0N1	40,050	DC0N1	0,764	DC0N1
4D10	B20X50	1000,000	75,955	DC0N3	37,587	DC0N3	0,659	DC0N1
4D11	B20X50	0,000	168,711	DC0N4	138,190	DC0N4	1,041	DC0N1
4D11	B20X50	1250,000	87,166	DC0N3	87,188	DC0N3	0,555	DC0N2
4D11	B20X50	2500,000	319,634	DC0N3	175,321	DC0N3	1,045	DC0N1
4D12	B20X50	0,000	219,806	DC0N3	158,008	DC0N3	1,006	DC0N1
4D12	B20X50	1250,000	88,164	DC0N3	78,601	DC0N3	0,610	DC0N1
4D12	B20X50	2500,000	235,819	DC0N3	147,966	DC0N3	1,113	DC0N1
4D13	B20X50	0,000	297,480	DC0N3	147,998	DC0N3	0,900	DC0N2
4D13	B20X50	1088,000	78,302	DC0N3	78,302	DC0N3	0,591	DC0N2
4D13	B20X50	2500,000	364,540	DC0N2	142,619	DC0N3	1,010	DC0N2
4D14	B20X50	0,000	265,501	DC0N3	191,610	DC0N3	1,000	DC0N1
4D14	B20X50	1250,000	88,737	DC0N4	88,737	DC0N4	0,560	DC0N2
4D14	B20X50	2500,000	319,694	DC0N4	178,487	DC0N4	1,049	DC0N1
4D15	B20X50	0,000	316,990	DC0N3	156,796	DC0N3	0,966	BH
4D15	B20X50	1500,000	78,000	DC0N3	150,117	DC0N4	0,966	BH
4D15	B20X50	3000,000	69,095	DC0N2	93,974	DC0N2	0,586	BH
4D16	B20X50	0,000	319,694	DC0N4	198,740	DC0N4	0,765	BH
4D16	B20X50	1500,000	78,866	DC0N4	151,611	DC0N3	0,965	BH
4D16	B20X50	3000,000	58,093	DC0N2	29,474	DC0N2	0,365	BH
4D17	B20X50	0,000	71,587	DC0N3	65,313	DC0N3	0,596	DC0N1
4D17	B20X50	1000,000	41,317	DC0N3	124,780	DC0N6	0,939	DC0N10
4D17	B20X50	2000,000	185,594	DC0N5	82,860	DC0N5	0,620	DC0N6
4D18	B20X50	0,000	69,490	DC0N4	31,579	DC0N4	0,598	DC0N6
4D18	B20X50	1000,000	44,746	DC0N5	128,437	DC0N6	0,969	BM
4D18	B20X50	2000,000	180,544	DC0N5	80,749	DC0N5	0,649	BM
4D19	B20X50	125,000	330,704	DC0N3	217,038	DC0N3	1,366	DC0N2
4D19	B20X50	1250,000	107,890	DC0N3	107,890	DC0N3	0,544	DC0N1
4D19	B20X50	2375,000	385,340	DC0N4	319,634	DC0N3	1,103	DC0N1
4D20	B20X50	0,000	91,010	DC0N10	128,438	DC0N5	0,790	DC0N2
4D20	B20X50	1187,500	107,002	DC0N2	107,002	DC0N2	0,987	DC0N2
4D20	B20X50	2375,000	384,731	DC0N5	215,498	DC0N2	1,187	DC0N2
4D21	B20X50	0,000	148,000	DC0N4	76,129	DC0N3	0,725	BM
4D21	B20X50	2250,000	97,972	DC0N3	258,446	DC0N2	0,149	BH
4D21	B20X50	4500,000	108,055	DC0N4	61,086	DC0N4	0,121	BH
4D22	B20X50	0,000	139,262	DC0N3	60,877	DC0N3	0,618	BM
4D22	B20X50	2250,000	28,527	DC0N2	236,245	DC0N2	0,140	BH
4D22	B20X50	4500,000	114,736	DC0N2	57,157	DC0N2	0,219	BH
4D23	B20X50	125,000	474,142	DC0N3	241,514	DC0N3	0,669	BM
4D23	B20X50	2012,540	118,817	DC0N2	118,817	DC0N2	0,447	BH
4D23	B20X50	4500,000	100,966	DC0N6	87,300	DC0N5	0,475	BH

4D24	B20X50	125,000	149,633	DC0N3	84,357	DC0N3	0,511	SM
4D24	B20X50	2250,000	138,537	DC0N4	138,537	DC0N4	0,483	SM
4D24	B20X50	4975,000	427,411	DC0N4	279,596	DC0N4	0,638	SM
4D25	B20X50	0,000	76,317	DC0N1	38,062	DC0N1	0,169	SM
4D25	B20X50	2187,500	19,010	DC0N2	19,010	DC0N2	0,096	SM
4D25	B20X50	4875,000	64,777	DC0N1	32,322	DC0N1	0,151	SM
4D26	B20X50	0,000	74,305	DC0N1	37,064	DC0N1	0,173	DC0N1
4D26	B20X50	2187,500	18,510	DC0N2	18,510	DC0N2	0,096	DC0N2
4D26	B20X50	4875,000	66,556	DC0N4	33,227	DC0N4	0,154	DC0N4
4D27	B20X50	125,000	173,574	DC0N4	78,107	DC0N3	0,577	SM
4D27	B20X50	2250,000	136,200	DC0N3	136,201	DC0N3	0,628	SM
4D27	B20X50	4975,000	413,990	DC0N3	274,840	DC0N3	0,629	SM
4D28	B20X50	125,000	444,948	DC0N4	249,447	DC0N3	0,757	SM
4D28	B20X50	2312,500	113,719	DC0N2	113,719	DC0N2	0,178	SM
4D28	B20X50	4600,000	91,369	DC0N3	78,889	DC0N3	0,186	SM
4D29	B20X50	0,000	115,797	DC0N2	57,664	DC0N2	0,000	DC0N1
4D29	B20X50	1250,000	97,718	DC0N1	404,953	DC0N1	0,000	DC0N1
4D29	B20X50	4500,000	162,817	DC0N2	75,638	DC0N2	0,000	DC0N1
4D30	B20X50	0,000	187,397	DC0N3	80,071	DC0N3	0,000	DC0N1
4D30	B20X50	2250,000	46,397	DC0N2	227,473	DC0N2	0,000	DC0N1
4D30	B20X50	4500,000	68,901	DC0N3	84,564	DC0N3	0,000	DC0N1
4D31	B20X50	0,000	54,007	DC0N4	117,051	DC0N3	0,294	SM
4D31	B20X50	2437,500	161,847	DC0N3	307,650	DC0N4	0,187	SM
4D31	B20X50	4875,000	501,059	DC0N3	319,634	DC0N3	0,278	SM
4D32	B20X50	0,000	095,638	DC0N1	059,228	DC0N1	0,313	DC0N1
4D32	B20X50	3500,000	128,531	DC0N1	319,634	DC0N1	0,282	SM
4D32	B20X50	7000,000	385,076	DC0N1	168,882	DC0N1	0,313	DC0N1
4D33	B20X50	0,000	158,451	DC0N4	78,628	DC0N3	1,012	DC0N1
4D33	B20X50	707,107	262,769	DC0N1	108,417	DC0N1	1,171	DC0N1
4D33	B20X50	1414,214	332,389	DC0N1	218,359	DC0N1	1,331	DC0N1
4D34	B20X50	0,000	160,825	DC0N4	79,256	DC0N3	1,011	DC0N1
4D34	B20X50	707,107	262,772	DC0N1	108,564	DC0N1	1,170	DC0N1
4D34	B20X50	1414,214	331,873	DC0N1	218,058	DC0N1	1,330	DC0N1
4D35	B20X50	250,000	319,634	DC0N5	139,257	DC0N5	0,265	SM
4D35	B20X50	2625,000	86,650	DC0N5	180,555	DC0N1	0,265	SM
4D35	B20X50	5000,000	173,950	DC0N6	86,490	DC0N5	0,265	SM
4D36	B20X50	250,000	319,634	DC0N5	139,170	DC0N5	0,265	SM
4D36	B20X50	2625,000	86,610	DC0N5	180,744	DC0N1	0,265	SM
4D36	B20X50	5000,000	175,038	DC0N6	87,027	DC0N6	0,265	SM
4F10	B20X30	0,000	21,811	DC0N1	10,643	DC0N1	0,035	SM
4F10	B20X30	1547,427	5,945	DC0N5	17,352	DC0N1	0,036	SM
4F10	B20X30	3094,855	23,808	DC0N5	11,898	DC0N5	0,036	SM
4F11	B20X30	0,000	23,850	DC0N5	11,904	DC0N5	0,036	SM
4F11	B20X30	1547,427	5,950	DC0N5	17,389	DC0N1	0,036	SM
4F11	B20X30	3094,855	21,250	DC0N1	10,612	DC0N1	0,036	SM
4F12	B20X30	0,000	24,813	DC0N1	12,389	DC0N1	0,038	SM
4F12	B20X30	1422,427	6,130	DC0N1	17,738	DC0N4	0,038	SM
4F12	B20X30	2844,855	19,280	DC0N3	9,590	DC0N3	0,038	SM
4F13	B20X30	772,855	15,459	DC0N4	7,921	DC0N4	0,036	SM
4F13	B20X30	1548,855	5,743	DC0N4	15,853	DC0N3	0,035	SM
4F13	B20X30	3094,855	23,016	DC0N4	11,493	DC0N4	0,035	SM
4F14	B20X30	0,000	20,916	DC0N1	11,446	DC0N1	0,034	SM
4F14	B20X30	1547,427	5,718	DC0N1	17,606	DC0N1	0,034	SM
4F14	B20X30	3094,855	22,429	DC0N1	11,197	DC0N1	0,034	SM
4F15	B20X30	0,000	22,874	DC0N1	11,422	DC0N1	0,034	SM
4F15	B20X30	1547,427	5,707	DC0N1	17,530	DC0N1	0,034	SM
4F15	B20X30	3094,855	22,417	DC0N1	11,194	DC0N1	0,034	SM
4F16	B20X30	0,000	22,900	DC0N3	11,435	DC0N3	0,035	SM
4F16	B20X30	1446,000	5,714	DC0N3	15,929	DC0N4	0,035	SM
4F16	B20X30	2892,000	15,901	DC0N3	7,893	DC0N3	0,035	SM
5A10	BI45X70	250,000	1011,148	DC0N6	861,977	DC0N5	1,904	DC0N2
5A10	BI45X70	1625,000	398,862	DC0N6	581,096	DC0N5	1,662	DC0N2
5A10	BI45X70	3000,000	0,000	DC0N1	300,071	DC0N2	1,450	DC0N2
5A11	BI45X70	0,000	0,000	DC0N1	406,692	DC0N2	1,195	SM
5A11	BI45X70	550,000	101,048	DC0N2	116,163	DC0N2	1,180	SM
5A11	BI45X70	1100,000	390,903	DC0N5	194,238	DC0N5	1,249	SM
5A12	BI45X70	0,000	0,000	DC0N1	408,255	DC0N2	1,196	SM
5A12	BI45X70	550,000	101,495	DC0N2	120,256	DC0N2	1,181	SM

5B03	B20X40	0,000	20,536	D20N1	30,159	D20N1	0,064	BK
5B30	B20X50	1075,000	5,079	D20N1	32,150	D20N2	0,045	BK
5B30	B20X50	2750,000	16,111	D20N2	7,935	D20N2	0,036	BK
5B04	B20X50	150,000	56,803	D20N2	50,404	D20N2	0,044	BK
5B30	B20X50	1315,000	14,193	D20N1	31,990	D20N1	0,179	BK
5B30	B20X50	1500,000	86,866	D20N2	23,398	D20N2	0,269	BK
5C10	B25X40	0,000	191,674	D25N4	149,401	D25N4	1,067	BK
5C10	B25X40	2150,000	200,905	D20N2	311,148	D20N2	0,955	BK
5C10	B25X40	4700,000	737,541	D20N3	381,944	D20N3	1,151	BK
5C11	B25X40	0,000	818,027	D20N3	311,148	D20N3	1,048	BK
5C11	B25X40	2500,000	162,455	D20N1	311,148	D20N2	0,571	BK
5C11	B25X40	5000,000	589,701	D20N4	311,142	D20N4	1,000	BK
5C12	B25X40	0,000	818,114	D20N3	305,804	D20N3	0,669	BK
5C12	B25X40	2250,000	220,078	D20N2	301,020	D20N2	0,736	BK
5C12	B25X40	4500,000	754,427	D20N4	360,997	D20N4	1,900	BK
5C13	B25X40	0,000	886,398	D20N3	194,434	D20N3	0,680	D20N10
5C13	B25X40	2,50,000	133,190	D20N2	311,148	D20N2	0,480	D20N10
5C13	B25X40	4500,000	481,589	D20N4	140,790	D20N2	0,912	D20N10
5C14	B25X40	0,000	440,348	D20N2	258,683	D20N2	0,911	D20N10
5C14	B25X40	2250,000	130,597	D20N2	311,148	D20N2	0,488	D20N10
5C14	B25X40	4500,000	400,462	D20N4	246,103	D20N4	0,870	D20N10
5C15	B25X40	0,000	590,637	D20N3	335,340	D20N3	0,146	BK
5C15	B25X40	2250,000	185,253	D20N2	311,148	D20N2	0,669	BK
5C15	B25X40	4500,000	845,619	D20N4	227,456	D20N4	1,006	BK
5C16	B25X40	0,000	692,131	D20N4	130,172	D20N4	0,152	BK
5C16	B25X40	2250,000	187,641	D20N2	311,148	D20N2	0,674	BK
5C16	B25X40	4500,000	844,715	D20N3	226,158	D20N3	1,006	BK
5C17	B25X40	0,000	435,569	D20N4	273,163	D20N2	0,918	D20N10
5C17	B25X40	2250,000	135,941	D20N2	311,148	D20N2	0,488	D20N10
5C17	B25X40	4500,000	398,956	D20N3	240,535	D20N2	0,966	D20N10
5C18	B25X40	0,000	885,795	D20N4	272,341	D20N2	0,883	D20N10
5C18	B25X40	2250,000	134,248	D20N2	311,148	D20N2	0,486	D20N10
5C18	B25X40	4500,000	405,329	D20N3	271,127	D20N2	0,815	D20N10
5C19	B25X40	0,000	991,104	D20N4	211,011	D20N4	0,998	BK
5C19	B25X40	2250,000	219,666	D20N2	299,324	D20N2	0,717	BK
5C19	B25X40	4500,000	748,754	D20N3	358,580	D20N3	1,194	BK
5C20	B25X40	0,000	641,903	D20N4	311,148	D20N3	1,056	BK
5C20	B25X40	2500,000	162,465	D20N2	311,148	D20N2	0,578	BK
5C20	B25X40	5000,000	560,599	D20N3	311,146	D20N3	1,000	BK
5D10	B20X50	0,000	54,514	D20N2	47,324	D20N4	0,440	BK
5D10	B20X50	3187,500	139,804	D20N2	139,804	D20N2	0,430	BK
5D10	B20X50	4875,000	425,008	D20N4	261,820	D20N2	0,649	BK
5D11	B20X50	0,000	106,836	D20N2	63,236	D20N2	0,218	BK
5D11	B20X50	2250,000	95,715	D20N1	213,607	D20N2	0,150	BK
5D11	B20X50	4500,000	143,850	D20N2	71,894	D20N2	0,226	BK
5D12	B20X50	0,000	174,804	D20N2	88,441	D20N2	0,290	BK
5D12	B20X50	2250,000	45,260	D20N2	236,321	D20N2	0,154	BK
5D12	B20X50	4500,000	58,509	D20N3	29,898	D20N3	0,211	BK
5D13	B20X50	0,000	50,443	D20N4	95,460	D20N3	0,482	BK
5D13	B20X50	2437,500	145,960	D20N3	212,112	D20N2	0,414	BK
5D13	B20X50	4875,000	444,661	D20N3	290,850	D20N2	0,855	BK
5D14	B20X50	0,000	309,416	D20N4	261,828	D20N4	0,815	D20N1
5D14	B20X50	3500,000	129,199	D20N3	355,913	D20N1	0,284	BK
5D14	B20X50	7000,000	997,808	D20N2	260,589	D20N3	0,814	D20N1
5D15	B20X50	0,000	289,164	D20N5	166,048	D20N5	1,037	D20N2
5D15	B20X50	707,107	266,281	D20N6	109,012	D20N4	1,420	D20N1
5D15	B20X50	1414,214	831,088	D20N4	217,545	D20N4	1,579	D20N1
5D16	B20X50	0,000	295,015	D20N5	164,154	D20N5	1,071	D20N2
5D16	B20X50	707,107	256,396	D20N6	107,875	D20N3	1,419	D20N1
5D16	B20X50	1414,214	809,719	D20N3	216,660	D20N3	1,678	D20N1
5D17	B20X50	250,000	484,274	D20N5	318,634	D20N5	0,936	BK
5D17	B20X50	2626,000	161,042	D20N3	196,245	D20N1	0,544	BK
5D17	B20X50	5000,000	319,634	D20N5	265,036	D20N5	0,800	BK
5D18	B20X50	250,000	487,285	D20N5	319,684	D20N4	0,927	BK
5D18	B20X50	2626,000	160,562	D20N5	186,051	D20N1	0,540	BK
5D18	B20X50	5000,000	319,634	D20N2	262,492	D20N5	0,799	BK
6A10	B45X70	250,000	1503,834	D20N6	891,456	D20N2	1,894	D20N2
6A10	B45X70	1625,000	425,834	D20N2	667,672	D20N5	1,311	BK

SA12	BI45X70	1100,000	661,457	DC0N5	1140,241	DC0N5	1,736	EM
SA13	BI45X70	0,000	0,000	DC0N1	948,735	DC0N2	1,820	DC0N2
SA13	BI45X70	875,000	449,653	DC0N5	534,984	DC0N5	1,965	DC0N2
SA13	BI45X70	1750,000	1011,143	DC0N5	967,775	DC0N5	2,131	DC0N2
SA14	BI45X70	0,000	0,000	DC0N1	983,163	DC0N2	1,877	DC0N2
SA14	BI45X70	875,000	509,937	DC0N5	530,731	DC0N5	1,891	DC0N2
SA14	BI45X70	1750,000	1011,143	DC0N5	991,949	DC0N5	2,177	DC0N2
SA15	BI45X70	0,000	0,000	DC0N1	1096,980	DC0N5	1,181	DC0N2
SA15	BI45X70	2000,000	740,060	DC0N5	1048,877	DC0N5	0,000	DC0N5
SA15	BI45X70	4000,000	0,000	DC0N1	1011,143	DC0N2	1,196	DC0N2
SA16	BI45X70	0,000	0,000	DC0N1	1400,168	DC0N5	1,470	DC0N1
SA16	BI45X70	2000,000	401,890	DC0N5	1585,418	DC0N5	0,000	DC0N1
SA16	BI45X70	4000,000	0,000	DC0N1	1150,603	DC0N5	1,695	DC0N1
SA17	BI45X70	0,000	0,000	DC0N1	1198,900	DC0N5	1,214	DC0N2
SA17	BI45X70	2000,000	566,913	DC0N5	1040,511	DC0N5	0,858	DC0N2
SA17	BI45X70	4000,000	0,000	DC0N1	1011,143	DC0N2	1,406	DC0N2
SA18	BI45X70	0,000	0,000	DC0N1	1217,287	DC0N5	1,210	DC0N2
SA18	BI45X70	2000,000	568,196	DC0N5	1075,943	DC0N5	0,851	DC0N2
SA18	BI45X70	4000,000	0,000	DC0N1	1011,143	DC0N2	1,425	DC0N2
SA19	BI45X70	0,000	0,000	DC0N1	1429,086	DC0N5	1,461	DC0N1
SA19	BI45X70	2000,000	440,575	DC0N5	1660,643	DC0N5	1,014	DC0N1
SA19	BI45X70	4000,000	0,000	DC0N1	1167,812	DC0N5	1,720	DC0N1
SA20	BI45X70	0,000	0,000	DC0N1	1116,096	DC0N5	1,120	DC0N2
SA20	BI45X70	2000,000	344,896	DC0N5	1071,581	DC0N5	0,846	DC0N2
SA20	BI45X70	4000,000	0,000	DC0N1	1011,143	DC0N2	1,400	DC0N2
SA21	BI45X70	0,000	0,000	DC0N1	909,470	DC0N2	1,437	DC0N2
SA21	BI45X70	1000,000	191,681	DC0N5	901,466	DC0N5	1,415	DC0N1
SA21	BI45X70	3600,000	343,794	DC0N5	776,663	DC0N5	1,849	DC0N2
SA22	BI45X70	0,000	0,000	DC0N1	571,486	DC0N2	1,464	DC0N2
SA22	BI45X70	1000,000	191,992	DC0N5	600,111	DC0N5	1,478	DC0N1
SA22	BI45X70	3600,000	352,221	DC0N5	777,103	DC0N5	1,864	DC0N2
SA23	BI45X70	250,000	1011,143	DC0N5	918,960	DC0N5	0,157	DC0N2
SA23	BI45X70	1125,000	474,996	DC0N5	858,921	DC0N5	1,901	DC0N2
SA23	BI45X70	2000,000	0,000	DC0N1	683,900	DC0N5	1,724	DC0N2
SA24	BI45X70	0,000	0,000	DC0N1	827,001	DC0N2	3,891	DC0N2
SA24	BI45X70	1125,000	284,157	DC0N5	726,949	DC0N5	4,194	DC0N2
SA24	BI45X70	1750,000	1011,143	DC0N5	591,846	DC0N5	4,467	DC0N2
SA25	BI45X70	0,000	0,000	DC0N1	766,841	DC0N2	3,759	DC0N2
SA25	BI45X70	875,000	781,563	DC0N5	716,264	DC0N5	3,996	DC0N2
SA25	BI45X70	1750,000	1011,143	DC0N5	606,151	DC0N5	4,330	DC0N2
SA26	BI45X70	250,000	1011,143	DC0N5	1006,816	DC0N5	2,131	DC0N2
SA26	BI45X70	1125,000	479,792	DC0N5	917,498	DC0N5	1,905	DC0N2
SA26	BI45X70	2000,000	0,000	DC0N1	712,566	DC0N5	1,698	DC0N2
SA27	BI45X70	0,000	0,000	DC0N1	581,837	DC0N5	1,466	DC0N2
SA27	BI45X70	1375,000	316,677	DC0N5	554,416	DC0N5	1,825	DC0N2
SA27	BI45X70	2750,000	1011,143	DC0N5	527,401	DC0N5	2,214	DC0N2
SA28	BI45X70	0,000	0,000	DC0N1	798,791	DC0N2	2,796	DC0N2
SA28	BI45X70	1375,000	439,554	DC0N5	646,245	DC0N5	3,240	DC0N2
SA28	BI45X70	2750,000	1396,221	DC0N5	867,142	DC0N5	3,749	DC0N2
SA29	BI45X70	0,000	0,000	DC0N1	1011,143	DC0N2	2,310	EM
SA29	BI45X70	1375,000	1011,143	DC0N5	857,209	DC0N2	2,645	EM
SA29	BI45X70	2750,000	2365,108	DC0N5	1148,026	DC0N5	2,913	EM
SA30	BI45X70	0,000	0,000	DC0N1	1169,890	DC0N5	2,611	DC0N10
SA30	BI45X70	1375,000	1011,143	DC0N5	767,530	DC0N2	2,888	DC0N10
SA30	BI45X70	2750,000	2736,061	DC0N5	1015,033	DC0N5	3,192	DC0N10
SA31	BI45X70	0,000	0,000	DC0N1	1011,143	DC0N2	2,022	EM
SA31	BI45X70	1375,000	975,865	DC0N5	988,600	DC0N2	2,409	EM
SA31	BI45X70	2750,000	2194,170	DC0N5	1092,937	DC0N5	2,625	EM
SA32	BI45X70	0,000	0,000	DC0N1	950,821	DC0N2	3,257	DC0N2
SA32	BI45X70	1375,000	782,988	DC0N5	838,798	DC0N5	3,614	DC0N2
SA32	BI45X70	2750,000	1672,235	DC0N5	1011,143	DC0N5	4,009	DC0N2
SA33	BI45X70	0,000	0,000	DC0N1	950,186	DC0N2	3,256	DC0N1
SA33	BI45X70	1375,000	782,756	DC0N5	838,504	DC0N5	3,615	DC0N2
SA33	BI45X70	2750,000	1672,964	DC0N5	1011,143	DC0N5	4,004	DC0N2
SA34	BI45X70	0,000	0,000	DC0N1	1011,143	DC0N2	2,234	EM
SA34	BI45X70	1375,000	929,469	DC0N5	989,779	DC0N2	2,491	EM
SA34	BI45X70	2750,000	2206,827	DC0N5	1068,766	DC0N5	2,837	EM

5A35	BI45X70	0,000	0,000	DC0N3	1127,490	DC0N4	1,000	DC0N11
5A35	BI45X70	1575,000	1011,143	DC0N3	758,604	DC0N2	2,302	DC0N10
5A35	BI45X70	2750,000	2740,331	DC0N5	1025,257	DC0N5	3,106	DC0N10
5A36	BI45X70	0,000	0,000	DC0N3	1011,143	DC0N2	2,302	EM
5A36	BI45X70	1375,000	1011,143	DC0N3	838,625	DC0N2	2,930	EM
5A36	BI45X70	2750,000	2416,465	DC0N5	1146,087	DC0N3	2,735	EM
5A37	BI45X70	0,000	0,000	DC0N3	790,000	DC0N3	1,844	DC0N3
5A37	BI45X70	1375,000	475,811	DC0N3	475,811	DC0N3	3,347	DC0N3
5A37	BI45X70	2750,000	1484,910	DC0N5	969,217	DC0N3	3,848	DC0N3
5A38	BI45X70	0,000	0,000	DC0N3	710,735	DC0N3	1,660	DC0N3
5A38	BI45X70	1375,000	190,618	DC0N3	574,117	DC0N3	1,341	DC0N3
5A38	BI45X70	2750,000	1019,340	DC0N5	666,166	DC0N3	2,019	DC0N3
5A40	BI45X70	0,000	647,141	DC0N3	918,807	DC0N3	2,051	DC0N3
5A40	BI45X70	1125,000	390,261	DC0N4	158,980	DC0N3	1,260	DC0N3
5A40	BI45X70	2350,000	196,937	DC0N4	576,799	DC0N3	2,168	DC0N3
5A42	BI45X70	0,000	0,000	DC0N3	710,735	DC0N3	1,660	DC0N3
5A42	BI45X70	1000,000	137,493	DC0N3	137,493	DC0N3	1,857	DC0N3
5A42	BI45X70	2000,000	658,525	DC0N4	475,301	DC0N3	1,947	DC0N3
5A47	BI45X70	0,000	0,000	DC0N3	541,588	DC0N3	1,265	DC0N3
5A47	BI45X70	1000,000	161,091	DC0N3	156,067	DC0N3	2,035	DC0N3
5A47	BI45X70	2000,000	680,093	DC0N3	518,104	DC0N3	2,125	DC0N3
5A48	BI45X70	0,000	547,469	DC0N3	749,941	DC0N3	1,752	DC0N3
5A48	BI45X70	1125,000	954,204	DC0N3	110,207	DC0N3	2,061	DC0N3
5A48	BI45X70	2350,000	199,998	DC0N3	570,732	DC0N4	1,961	DC0N3
5B10	BI30X50	150,000	1166,016	DC0N4	967,919	DC0N3	1,887	DC0N3
5B10	BI30X50	2262,500	279,084	DC0N3	329,121	DC0N3	1,284	DC0N3
5B10	BI30X50	4275,000	870,466	DC0N3	540,440	DC0N3	1,902	DC0N3
5B11	BI30X50	175,000	967,814	DC0N4	469,631	DC0N3	1,643	DC0N3
5B11	BI30X50	2350,000	865,612	DC0N3	240,719	DC0N3	0,938	DC0N3
5B11	BI30X50	4275,000	730,112	DC0N3	474,147	DC0N3	1,601	DC0N3
5B12	BI30X50	175,000	936,471	DC0N4	474,147	DC0N3	1,668	DC0N3
5B12	BI30X50	2350,000	861,248	DC0N3	246,923	DC0N3	0,944	DC0N3
5B12	BI30X50	4275,000	780,367	DC0N3	474,147	DC0N3	1,660	DC0N3
5B13	BI30X50	225,000	813,397	DC0N3	481,769	DC0N3	1,617	DC0N3
5B13	BI30X50	1900,000	251,465	DC0N3	167,150	DC0N3	0,940	DC0N3
5B13	BI30X50	4275,000	906,292	DC0N4	474,147	DC0N3	1,686	DC0N3
5B14	BI30X50	225,000	828,141	DC0N4	480,704	DC0N3	1,617	DC0N3
5B14	BI30X50	2600,000	894,702	DC0N3	270,784	DC0N3	0,911	DC0N3
5B14	BI30X50	4275,000	888,749	DC0N3	481,536	DC0N3	1,654	DC0N3
5B15	BI30X50	225,000	148,545	DC0N4	176,044	DC0N4	1,815	DC0N3
5B15	BI30X50	1200,000	300,674	DC0N4	422,686	DC0N3	1,682	DC0N3
5B15	BI30X50	2275,000	882,488	DC0N4	545,313	DC0N3	2,128	DC0N3
5B16	BI30X50	225,000	901,337	DC0N3	809,564	DC0N3	1,807	DC0N3
5B16	BI30X50	1900,000	226,556	DC0N3	862,150	DC0N3	1,466	DC0N1
5B16	BI30X50	2375,000	845,026	DC0N4	237,076	DC0N3	1,801	DC0N3
5B17	BI30X50	225,000	781,493	DC0N3	946,776	DC0N3	1,722	DC0N1
5B17	BI30X50	4275,000	968,418	DC0N4	474,147	DC0N4	2,008	DC0N1
5B18	BI30X50	225,000	852,469	DC0N3	474,147	DC0N3	1,849	DC0N1
5B18	BI30X50	2350,000	878,547	DC0N3	885,577	DC0N3	0,979	DC0N1
5B18	BI30X50	4275,000	882,166	DC0N4	432,054	DC0N3	1,565	DC0N1
5B19	BI30X50	225,000	899,759	DC0N3	474,147	DC0N3	1,808	DC0N1
5B19	BI30X50	2250,000	198,000	DC0N3	409,443	DC0N3	1,080	DC0N1
5B19	BI30X50	4275,000	826,565	DC0N4	466,542	DC0N3	1,864	DC0N1
5B20	BI30X50	250,000	735,224	DC0N3	473,696	DC0N3	1,779	DC0N6
5B20	BI30X50	2600,000	934,999	DC0N3	345,796	DC0N3	0,967	DC0N6
5B20	BI30X50	4275,000	709,671	DC0N4	467,866	DC0N3	1,619	DC0N6
5B21	BI30X50	250,000	726,650	DC0N4	473,968	DC0N4	1,781	DC0N6
5B21	BI30X50	2262,500	728,406	DC0N3	947,609	DC0N3	0,969	DC0N6
5B21	BI30X50	4275,000	707,030	DC0N3	461,498	DC0N3	1,618	DC0N6
5B22	BI30X50	225,000	941,361	DC0N4	474,147	DC0N4	1,962	DC0N1
5B22	BI30X50	2250,000	950,165	DC0N3	942,994	DC0N3	1,076	DC0N1
5B22	BI30X50	4275,000	799,456	DC0N3	474,147	DC0N3	1,845	DC0N1
5B23	BI30X50	225,000	881,285	DC0N4	474,147	DC0N4	1,882	DC0N1
5B23	BI30X50	2250,000	868,376	DC0N3	848,863	DC0N3	1,010	DC0N6
5B23	BI30X50	4275,000	835,715	DC0N3	474,147	DC0N3	1,861	DC0N1
5B24	BI30X50	225,000	894,406	DC0N4	455,117	DC0N3	1,876	DC0N1
5B24	BI30X50	2250,000	894,867	DC0N3	888,214	DC0N3	1,048	DC0N6
5B24	BI30X50	4275,000	920,246	DC0N3	474,147	DC0N3	1,929	DC0N1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B24	B150X50	2500,000	1049,303	D50N3	504,735	D50N3	1,040	D50N3
5B25	B150X50	2500,000	865,480	D50N4	474,147	D50N4	1,820	D50N4
5B26	B150X50	2500,000	381,408	D50N3	495,293	D50N1	1,010	D50N3
5B27	B150X50	4775,000	1049,303	D50N3	504,735	D50N3	1,040	D50N3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B16	B150X50	1867,500	275,215	D50N2	438,952	D50N3	1,071	D50N2
5B26	B150X50	2500,000	0,000	D50N1	640,460	D50N1	1,735	D50N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B17	B150X50	1867,500	123,245	D50N2	440,226	D50N4	2,084	D50N2
5B28	B150X50	0,000	240,811	D50N5	196,205	D50N5	0,716	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B29	B150X50	4775,000	949,971	D50N5	300,715	D50N5	0,794	EM
5B29	B150X50	0,000	984,389	D50N2	184,993	D50N2	0,604	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B09	B150X50	5000,000	940,111	D50N1	169,785	D50N2	0,601	EM
5B30	B150X50	0,000	306,084	D50N5	168,109	D50N5	0,717	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B30	B150X50	4775,000	550,494	D50N5	304,580	D50N5	0,800	EM
5B31	B150X50	250,000	1867,037	D50N2	0,000	D50N1	1,814	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B31	B150X50	1000,000	994,058	D50N4	88,027	D50N5	1,804	D50N2
5B32	B150X50	0,000	0,000	D50N1	1690,683	D50N2	3,080	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B32	B150X50	3800,000	1104,263	D50N4	583,786	D50N4	4,118	D50N2
5B33	B150X50	0,000	0,000	D50N1	1690,562	D50N2	3,073	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B33	B150X50	3500,000	1099,771	D50N3	531,510	D50N2	4,111	D50N2
5B34	B150X50	750,000	1958,929	D50N3	0,000	D50N4	1,306	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B34	B150X50	1800,000	588,792	D50N2	88,201	D50N5	1,187	D50N2
5B35	B150X50	250,000	510,489	D50N4	347,960	D50N5	2,283	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B35	B150X50	2135,000	0,000	D50N1	447,516	D50N2	1,921	D50N2
5B36	B150X50	250,000	518,369	D50N6	348,324	D50N6	2,290	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B36	B150X50	3125,000	0,000	D50N1	446,940	D50N2	1,928	D50N2
5B37	B150X50	0,000	0,000	D50N1	482,519	D50N2	2,187	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B37	B150X50	1800,000	690,295	D50N5	452,050	D50N5	2,668	D50N2
5B38	B150X50	0,000	0,000	D50N1	450,921	D50N2	2,176	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B38	B150X50	1875,000	689,617	D50N5	460,389	D50N5	2,689	D50N2
5B39	B150X50	250,000	1939,890	D50N4	566,212	D50N4	4,037	D50N6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B39	B150X50	4500,000	0,000	D50N1	1438,696	D50N2	7,861	D50N6
5B40	B150X50	250,000	1869,104	D50N3	386,848	D50N3	4,022	D50N6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5B40	B150X50	4500,000	0,000	D50N1	1438,696	D50N2	7,845	D50N6
5BK1	B80X50	250,000	459,154	D50N6	347,851	D50N5	1,920	D50N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK1	B80X50	2600,000	358,034	D50N5	247,137	D50N6	1,309	D50N2
5BK2	B60X50	150,000	315,717	D50N6	251,713	D50N5	1,115	D50N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK2	B80X50	2600,000	265,060	D50N5	284,446	D50N5	1,011	D50N1
5BK3	B80X50	250,000	677,887	D50N2	442,840	D50N2	1,546	D50N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK3	B80X50	2750,000	0,000	D50N1	15,569	D50N2	1,040	D50N1
5BK4	B80X50	250,000	1387,838	D50N2	668,927	D50N2	3,024	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK4	B80X50	2750,000	0,000	D50N1	49,798	D50N2	2,877	D50N2
5BK5	B80X50	250,000	1135,780	D50N2	568,250	D50N2	2,649	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK5	B80X50	2750,000	0,000	D50N1	27,429	D50N2	1,902	D50N2
5BK6	B80X50	150,000	471,147	D50N5	247,180	D50N5	1,436	D50N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK6	B80X50	2500,000	474,147	D50N5	290,948	D50N5	1,809	D50N1
5BK7	B80X50	150,000	57,106	D50N2	38,518	D50N2	0,242	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5BK7	B80X50	2500,000	54,903	D50N2	37,419	D50N2	0,240	EM

6A10	BI45X70	2000,000	0,000	DC0N1	1810,668	DC0N2	1,283	DC
6A11	BI45X70	0,000	188,089	DC0N10	677,173	DC0N6	0,868	DC
6A11	BI45X70	500,000	209,660	DC0N2	819,584	DC0N2	0,868	DC
6A11	BI45X70	1000,000	0,000	DC0N1	1011,143	DC0N2	0,854	DC
6A12	BI45X70	0,000	393,515	DC0N6	089,047	DC0N5	2,109	DC0N2
6A12	BI45X70	500,000	311,148	DC0N2	427,469	DC0N5	1,998	DC0N2
6A12	BI45X70	1000,000	0,000	DC0N1	1147,084	DC0N2	1,987	DC0N2
6A13	BI45X70	250,000	550,056	DC0N6	865,176	DC0N6	1,904	DC0N2
6A13	BI45X70	1625,000	196,070	DC0N5	246,095	DC0N6	0,909	DC0N1
6A13	BI45X70	3000,000	10,940	DC0N10	780,795	DC0N5	0,893	DC0N1
6A14	BI45X70	250,000	702,944	DC0N5	352,766	DC0N5	1,486	DC0N2
6A14	BI45X70	1625,000	178,736	DC0N5	253,511	DC0N6	1,849	DC0N2
6A14	BI45X70	3000,000	1,643	DC0N10	809,860	DC0N5	1,851	DC0N2
6A15	BI45X70	0,000	0,000	DC0N1	415,191	DC0N2	1,414	DC0N2
6A15	BI45X70	625,000	103,101	DC0N2	176,235	DC0N2	1,497	DC0N2
6A15	BI45X70	1125,000	99,169	DC0N7	41,514	DC0N7	1,879	DC0N7
6A16	BI45X70	0,000	0,000	DC0N1	413,861	DC0N2	1,430	DC0N2
6A16	BI45X70	550,000	110,074	DC0N2	178,340	DC0N2	1,483	DC0N2
6A16	BI45X70	1100,000	98,117	DC0N7	44,680	DC0N7	1,936	DC0N7
6A17	BI45X70	0,000	0,000	DC0N1	1011,142	DC0N2	1,500	DC0N2
6A17	BI45X70	1000,000	421,456	DC0N2	1211,595	DC0N2	1,161	DC0N2
6A17	BI45X70	2000,000	0,000	DC0N1	1298,868	DC0N2	0,837	DC0N1
6A18	BI45X70	0,000	0,000	DC0N1	804,110	DC0N2	1,280	DC0N6
6A18	BI45X70	1000,000	339,850	DC0N2	1011,143	DC0N2	1,002	DC0N5
6A18	BI45X70	2000,000	0,000	DC0N1	1041,705	DC0N2	0,708	DC0N5
6A19	BI45X70	0,000	0,000	DC0N1	1463,657	DC0N2	1,317	DC0N2
6A19	BI45X70	2000,000	477,288	DC0N2	1657,674	DC0N2	1,060	DC0N2
6A19	BI45X70	4000,000	0,000	DC0N1	1135,647	DC0N2	1,622	DC0N2
6A20	BI45X70	0,000	0,000	DC0N1	1367,060	DC0N2	1,309	DC0N2
6A20	BI45X70	2000,000	448,966	DC0N2	1623,868	DC0N2	0,982	DC0N2
6A20	BI45X70	4000,000	0,000	DC0N1	1145,474	DC0N2	1,516	DC0N2
6A21	BI45X70	0,000	0,000	DC0N1	1158,463	DC0N2	1,189	DC0N2
6A21	BI45X70	2000,000	377,361	DC0N2	1418,351	DC0N2	0,892	DC0N2
6A21	BI45X70	4000,000	0,000	DC0N1	1011,143	DC0N2	1,386	DC0N2
6A22	BI45X70	0,000	0,000	DC0N1	1197,835	DC0N2	1,194	DC0N2
6A22	BI45X70	2000,000	401,185	DC0N2	1479,901	DC0N2	0,893	DC0N2
6A22	BI45X70	4000,000	0,000	DC0N1	1011,148	DC0N2	1,547	DC0N2
6A23	BI45X70	150,000	335,734	DC0N6	592,455	DC0N5	1,482	DC0N2
6A23	BI45X70	1450,000	148,380	DC0N2	576,364	DC0N2	1,010	DC0N1
6A23	BI45X70	2950,000	0,000	DC0N1	598,460	DC0N2	0,915	DC0N1
6A24	BI45X70	150,000	344,107	DC0N6	595,921	DC0N5	1,486	DC0N2
6A24	BI45X70	1450,000	148,651	DC0N2	576,489	DC0N2	1,014	DC0N1
6A24	BI45X70	2950,000	0,000	DC0N1	600,051	DC0N2	0,914	DC0N1
6A25	BI45X70	250,000	725,304	DC0N6	906,458	DC0N5	1,869	DC0N2
6A25	BI45X70	1125,000	179,333	DC0N6	481,172	DC0N5	1,618	DC0N2
6A25	BI45X70	2000,000	0,000	DC0N1	600,494	DC0N2	1,386	DC0N2
6A26	BI45X70	0,000	0,000	DC0N1	778,413	DC0N2	3,026	DC0N2
6A26	BI45X70	875,000	182,595	DC0N2	835,815	DC0N5	3,250	DC0N2
6A26	BI45X70	1960,000	615,115	DC0N5	780,737	DC0N5	3,519	DC0N2
6A27	BI45X70	0,000	0,000	DC0N1	1309,762	DC0N2	1,101	DC0N1
6A27	BI45X70	1000,000	423,025	DC0N2	1085,459	DC0N2	1,368	DC0N1
6A27	BI45X70	2000,000	0,000	DC0N1	988,574	DC0N2	1,551	DC0N2
6A28	BI45X70	0,000	0,000	DC0N1	1052,419	DC0N2	0,882	DC0N1
6A28	BI45X70	1000,000	343,296	DC0N2	1011,143	DC0N2	1,141	DC0N2
6A28	BI45X70	2000,000	0,000	DC0N1	945,219	DC0N2	1,335	DC0N2
6A29	BI45X70	0,000	0,000	DC0N1	706,924	DC0N2	2,848	DC0N2
6A29	BI45X70	875,000	174,839	DC0N2	807,708	DC0N5	3,073	DC0N2
6A29	BI45X70	1750,000	619,714	DC0N5	798,984	DC0N5	3,305	DC0N2
6A30	BI45X70	250,000	686,276	DC0N6	398,062	DC0N5	1,677	DC0N2
6A30	BI45X70	1125,000	169,766	DC0N5	504,914	DC0N5	1,969	DC0N2
6A30	BI45X70	2000,000	0,000	DC0N1	469,865	DC0N2	1,780	DC0N2
6A31	BI45X70	0,000	0,000	DC0N1	499,575	DC0N2	1,113	DC0N2
6A31	BI45X70	1875,000	191,869	DC0N5	599,543	DC0N6	1,506	DC0N2
6A31	BI45X70	3750,000	776,619	DC0N5	985,237	DC0N5	1,930	DC0N2
6A32	BI45X70	0,000	0,000	DC0N1	752,065	DC0N2	2,428	DC0N2
6A32	BI45X70	1875,000	382,717	DC0N5	382,717	DC0N5	2,850	DC0N2
6A32	BI45X70	3750,000	1019,271	DC0N5	568,996	DC0N5	3,309	DC0N2
6A33	BI45X70	0,000	0,000	DC0N1	1005,330	DC0N2	2,060	DC0N10

6A33	BI45X70	1875,000	903,900	DC0N5	519,600	DC0N7	1,915	DC0N10
6A43	BI45X70	2750,000	2040,805	DC0N5	1011,143	DC0N2	2,422	DC0N10
6A34	BI45X70	0,000	0,000	DC0N1	1105,110	DC0N2	1,780	EH
6A34	BI45X70	1875,000	711,313	DC0N5	711,313	DC0N7	1,979	DC0N2
6A34	BI45X70	2750,000	2162,189	DC0N5	1034,718	DC0N5	2,341	DC0N2
6A35	BI45X70	0,000	0,000	DC0N1	1144,904	DC0N2	1,575	EH
6A35	BI45X70	1875,000	735,804	DC0N5	807,805	DC0N5	1,699	DC0N7
6A35	BI45X70	2750,000	1022,319	DC0N5	1011,143	DC0N2	2,021	DC0N2
6A36	BI45X70	0,000	0,000	DC0N1	972,539	DC0N1	1,476	DC0N2
6A36	BI45X70	1875,000	735,804	DC0N5	810,316	DC0N5	1,699	DC0N5
6A36	BI45X70	2750,000	1598,895	DC0N5	1011,143	DC0N5	2,280	DC0N1
6A37	BI45X70	0,000	0,000	DC0N1	979,186	DC0N2	2,486	DC0N2
6A37	BI45X70	1875,000	709,454	DC0N5	810,963	DC0N5	1,680	DC0N5
6A37	BI45X70	2750,000	1598,895	DC0N5	1011,143	DC0N5	2,305	DC0N2
6A38	BI45X70	0,000	0,000	DC0N1	1011,143	DC0N2	4,804	DC0N10
6A38	BI45X70	1875,000	757,044	DC0N5	830,048	DC0N7	1,848	DC0N10
6A38	BI45X70	2750,000	1661,306	DC0N5	1011,143	DC0N2	2,487	DC0N10
6A39	BI45X70	0,000	0,000	DC0N1	1011,143	DC0N2	1,187	DC0N10
6A39	BI45X70	1875,000	800,714	DC0N5	888,452	DC0N7	1,944	DC0N10
6A39	BI45X70	2750,000	2158,838	DC0N5	1046,413	DC0N5	2,560	DC0N10
6A40	BI45X70	0,000	0,000	DC0N1	790,644	DC0N2	1,179	EM
6A40	BI45X70	1875,000	1011,147	DC0N5	648,181	DC0N5	1,866	PM
6A40	BI45X70	2750,000	3146,461	DC0N5	1040,585	DC0N5	2,582	EM
6A41	BI45X70	0,000	0,000	DC0N1	675,239	DC0N2	2,633	DC0N2
6A41	BI45X70	1875,000	877,472	DC0N5	837,437	DC0N5	1,951	DC0N2
6A41	BI45X70	2750,000	1144,085	DC0N5	950,651	DC0N5	3,430	DC0N2
6A42	BI45X70	0,000	0,000	DC0N1	470,009	DC0N1	1,262	DC0N2
6A42	BI45X70	1875,000	1138,900	DC0N5	908,982	DC0N6	1,531	DC0N7
6A42	BI45X70	2750,000	802,988	DC0N5	506,206	DC0N5	1,890	DC0N2
6A44	BI45X70	0,000	568,049	DC0N1	879,817	DC0N2	1,829	DC0N2
6A44	BI45X70	1875,000	662,193	DC0N4	179,569	DC0N5	1,728	DC0N5
6A44	BI45X70	2750,000	113,906	DC0N5	344,223	DC0N5	1,837	DC0N2
6A45	BI45X70	0,000	0,000	DC0N1	430,262	DC0N1	1,978	DC0N2
6A45	BI45X70	1000,000	138,113	DC0N7	112,113	DC0N7	2,088	DC0N7
6A46	BI45X70	2000,000	475,875	DC0N2	296,791	DC0N2	2,159	DC0N2
6A47	BI45X70	0,000	0,000	DC0N1	449,116	DC0N2	2,208	DC0N2
6A47	BI45X70	1000,000	138,163	DC0N7	136,163	DC0N7	2,299	DC0N7
6A47	BI45X70	3000,000	557,358	DC0N2	277,101	DC0N2	2,383	DC0N2
6A49	BI45X70	0,000	470,178	DC0N2	238,980	DC0N1	1,608	DC0N2
6A49	BI45X70	1125,000	230,691	DC0N3	116,714	DC0N7	1,509	DC0N7
6A49	BI45X70	3250,000	139,471	DC0N7	307,610	DC0N4	1,407	DC0N2
6B10	BI30X50	225,000	713,440	DC0N3	465,546	DC0N5	2,682	DC0N1
6B10	BI30X50	1237,500	230,405	DC0N3	271,705	DC0N4	2,331	DC0N2
6B10	BI30X50	2250,000	0,000	DC0N1	415,864	DC0N2	1,900	DC0N1
6B11	BI30X50	250,000	642,087	DC0N3	474,147	DC0N3	1,592	DC0N2
6B11	BI30X50	2262,500	268,146	DC0N3	283,716	DC0N7	2,976	DC0N2
6B11	BI30X50	4275,000	715,808	DC0N4	466,988	DC0N4	1,766	DC0N2
6B12	BI30X50	250,000	651,136	DC0N4	474,147	DC0N3	1,580	DC0N2
6B12	BI30X50	2262,500	220,817	DC0N3	218,671	DC0N7	2,977	DC0N2
6B12	BI30X50	4275,000	662,779	DC0N3	445,969	DC0N3	1,719	DC0N2
6B13	BI30X50	225,000	672,379	DC0N4	439,000	DC0N4	1,486	DC0N6
6B13	BI30X50	2250,000	194,704	DC0N3	249,452	DC0N7	2,874	DC0N4
6B13	BI30X50	4275,000	639,760	DC0N3	391,762	DC0N3	1,416	DC0N6
6B14	BI30X50	225,000	682,752	DC0N4	414,584	DC0N4	1,768	DC0N2
6B14	BI30X50	1862,500	205,471	DC0N4	250,758	DC0N7	3,164	DC0N7
6B14	BI30X50	3500,000	307,968	DC0N3	400,142	DC0N4	1,485	DC0N2
6B15	BI30X50	225,000	599,880	DC0N3	332,285	DC0N4	0,000	DC0N1
6B15	BI30X50	612,500	474,147	DC0N3	249,611	DC0N4	0,000	DC0N1
6B15	BI30X50	1000,000	282,319	DC0N3	425,313	DC0N4	0,000	DC0N1
6B16	BI30X50	0,000	365,674	DC0N3	176,464	DC0N3	1,195	DC0N2
6B16	BI30X50	1837,500	148,415	DC0N4	241,760	DC0N7	0,566	DC0N1
6B16	BI30X50	3775,000	474,147	DC0N4	293,904	DC0N3	1,210	DC0N2
6B17	BI30X50	225,000	591,349	DC0N3	367,356	DC0N3	1,444	DC0N6
6B17	BI30X50	612,500	474,147	DC0N3	190,047	DC0N3	1,966	DC0N6
6B17	BI30X50	1000,000	330,277	DC0N3	161,955	DC0N3	1,173	DC0N5
6B18	BI30X50	225,000	602,623	DC0N4	384,602	DC0N4	1,470	DC0N6
6B18	BI30X50	612,500	474,147	DC0N4	195,608	DC0N4	1,992	DC0N6
6B18	BI30X50	1000,000	368,299	DC0N4	179,614	DC0N3	1,289	DC0N6

[illegible]	[illegible]	0,000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B18	BI80X60	1837,500	136,415	DC0N3	147,037	DC0N2	0,684	DC0N1
6B19	BI30X60	3775,000	474,147	DC0N3	279,503	DC0N3	1,199	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B20	BI80X60	1100,000	168,092	DC0N4	255,872	DC0N3	1,175	DC0N2
6B00	BI80X80	4175,000	515,014	DC0N4	358,573	DC0N4	1,559	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B21	BI80X50	1300,000	145,880	DC0N3	121,791	DC0N4	1,117	DC0N1
6B31	BI80X50	1975,000	176,567	DC0N4	107,537	DC0N3	1,417	DC0N2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B22	BI80X50	2250,000	221,885	DC0N4	525,112	DC0N1	0,811	EM
6B32	BI80X50	4275,000	593,695	DC0N4	446,516	DC0N4	1,394	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B23	BI80X50	2250,000	221,896	DC0N3	368,980	DC0N1	0,803	EM
6B33	BI80X50	4275,000	542,182	DC0N4	346,563	DC0N4	1,382	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B24	BI80X60	1012,500	135,481	DC0N4	405,871	DC0N3	1,373	EM
6B34	BI80X80	2015,000	202,220	DC0N4	194,545	DC0N4	1,075	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B25	BI80X50	1237,500	127,891	DC0N3	344,468	DC0N4	1,593	EM
6B35	BI80X50	2850,000	0,000	DC0N1	474,147	DC0N1	1,202	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B26	BI80X50	2362,500	159,496	DC0N2	324,895	DC0N2	0,789	DC0N10
6B36	BI80X50	4275,000	533,919	DC0N4	350,359	DC0N4	1,312	DC0N10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B27	BI80X50	2362,500	162,922	DC0N2	344,968	DC0N2	0,796	DC0N10
6B37	BI80X50	4275,000	497,978	DC0N3	327,135	DC0N3	1,284	DC0N10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B28	BI80X50	3250,000	180,211	DC0N3	364,934	DC0N2	0,809	EM
6B38	BI80X50	4275,000	582,965	DC0N3	383,286	DC0N3	1,416	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B29	BI80X50	3250,000	195,879	DC0N3	384,520	DC0N2	0,786	EM
6B39	BI80X50	4275,000	571,832	DC0N3	374,798	DC0N3	1,433	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B30	BI80X50	3250,000	206,747	DC0N3	404,394	DC0N2	0,769	EM
6B30	BI80X50	4275,000	537,902	DC0N3	417,244	DC0N3	1,346	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6B31	BI80X50	3500,000	238,204	DC0N3	420,287	DC0N2	0,768	EM
6B31	BI80X50	4775,000	738,420	DC0N3	474,147	DC0N3	1,431	EM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK1	BI80X50	575,000	23,589	DC0N1	16,268	DC0N1	0,451	DC0N1
6BK1	BI80X50	1000,000	7,545	DC0N3	21,832	DC0N4	0,421	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK2	BI80X50	575,000	26,538	DC0N1	20,707	DC0N3	0,535	DC0N1
6BK2	BI80X50	1000,000	8,872	DC0N4	13,082	DC0N3	0,505	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK3	BI80X50	575,000	30,251	DC0N1	18,586	DC0N4	0,495	DC0N1
6BK3	BI80X50	1000,000	2,706	DC0N3	15,249	DC0N4	0,465	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK4	BI80X50	575,000	25,606	DC0N1	17,107	DC0N1	0,464	DC0N1
6BK4	BI80X50	1000,000	8,436	DC0N4	20,754	DC0N3	0,434	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK5	BI80X50	575,000	20,831	DC0N4	16,583	DC0N4	0,356	DC0N1
6BK5	BI80X50	1000,000	3,089	DC0N5	2,469	DC0N10	0,326	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK6	BI80X50	426,000	21,251	DC0N2	28,014	DC0N2	0,731	DC0N1
6BK6	BI80X50	850,000	112,463	DC0N3	66,095	DC0N2	0,761	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK7	BI80X50	425,000	52,315	DC0N2	28,490	DC0N2	0,740	DC0N1
6BK7	BI80X50	850,000	114,387	DC0N2	57,063	DC0N2	0,770	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK8	BI80X50	575,000	28,570	DC0N3	15,702	DC0N3	0,337	DC0N1
6BK8	BI80X50	1000,000	2,113	DC0N5	2,721	DC0N10	0,307	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6BK9	BI80X50	387,500	99,768	DC0N3	43,478	DC0N3	1,043	DC0N1
6BK9	BI80X50	775,000	174,897	DC0N3	97,115	DC0N3	1,070	DC0N1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6C10	BI50X40	0,000	368,161	DC0N2	241,385	DC0N2	0,874	DC0N10
6C10	BI50X40	2250,000	145,881	DC0N1	311,148	DC0N2	0,478	DC0N10
6C10	BI50X40	4500,000	451,170	DC0N1	294,647	DC0N1	0,907	DC0N10

6C11	B25X40	0,000	598,168	DC0N2	311,148	DC0N2	0,665	BH
6C11	B25X40	2050,000	169,841	DC0N1	909,085	DC0N1	0,449	BH
6C11	B25X40	4500,000	221,679	DC0N1	110,024	DC0N2	0,610	BH
6C12	B25X40	225,000	417,494	DC0N4	311,148	DC0N4	0,846	BH
6C12	B25X40	2362,500	166,816	DC0N1	196,672	DC0N1	0,564	BH
6C12	B25X40	4500,000	114,784	DC0N3	105,401	DC0N4	0,554	BH
6C13	B25X40	0,000	91,788	DC0N4	60,576	DC0N3	0,511	BH
6C13	B25X40	2137,500	185,161	DC0N2	180,426	DC0N2	0,617	BH
6C13	B25X40	4275,000	218,241	DC0N4	311,148	DC0N2	0,511	BH
6C14	B25X40	0,000	505,178	DC0N1	311,148	DC0N2	0,941	DC0N10
6C14	B25X40	2500,000	171,955	DC0N1	311,148	DC0N1	0,511	DC0N10
6C14	B25X40	5000,000	137,499	DC0N4	128,916	DC0N2	0,655	DC0N10
6C15	B25X40	0,000	341,144	DC0N2	119,611	DC0N2	0,758	DC0N10
6C15	B25X40	2150,000	180,868	DC0N2	278,369	DC0N2	0,570	DC0N10
6C15	B25X40	4500,000	500,257	DC0N2	311,148	DC0N2	0,948	DC0N10
6C16	B25X40	2250,000	150,468	DC0N2	311,148	DC0N1	0,447	BH
6C16	B25X40	4500,000	245,035	DC0N2	220,488	DC0N2	0,679	BH
6C17	B25X40	0,000	0,000	DC0N1	601,990	DC0N2	2,135	DC0N1
6C17	B25X40	1125,000	140,313	DC0N1	207,218	DC0N2	2,711	DC0N1
6C17	B25X40	2250,000	586,804	DC0N2	311,148	DC0N2	1,968	DC0N2
6C18	B25X40	0,000	555,206	DC0N2	311,148	DC0N2	1,818	DC0N2
6C18	B25X40	1125,000	195,251	DC0N1	208,137	DC0N1	2,647	DC0N2
6C18	B25X40	2250,000	0,000	DC0N1	600,806	DC0N2	1,988	DC0N1
6C19	B25X40	0,000	599,689	DC0N3	311,148	DC0N2	1,008	DC0N10
6C19	B25X40	2250,000	184,179	DC0N2	311,148	DC0N2	0,509	DC0N10
6C19	B25X40	4500,000	211,762	DC0N4	175,840	DC0N2	0,906	DC0N10
6C20	B25X40	0,000	584,304	DC0N4	311,148	DC0N2	0,991	DC0N10
6C20	B25X40	2250,000	179,657	DC0N2	311,148	DC0N2	0,568	DC0N10
6C20	B25X40	4500,000	296,313	DC0N2	136,898	DC0N2	0,872	DC0N10
6C21	B25X40	0,000	860,890	DC0N2	236,764	DC0N2	0,866	DC0N10
6C21	B25X40	2250,000	149,883	DC0N2	311,148	DC0N2	0,448	DC0N10
6C21	B25X40	4500,000	441,839	DC0N2	280,489	DC0N2	0,897	DC0N10
6C22	B25X40	0,000	411,651	DC0N2	259,345	DC0N2	0,642	BH
6C22	B25X40	1800,000	183,489	DC0N3	311,148	DC0N3	0,475	BH
6C22	B25X40	4500,000	387,885	DC0N2	231,857	DC0N2	0,538	BH
6C23	B25X40	0,000	277,071	DC0N2	197,556	DC0N2	0,761	DC0N10
6C23	B25X40	2250,000	181,474	DC0N2	226,148	DC0N2	0,549	DC0N10
6C23	B25X40	4500,000	569,838	DC0N2	311,148	DC0N2	0,924	DC0N10
6C24	B25X40	0,000	524,159	DC0N2	311,148	DC0N2	0,930	DC0N10
6C24	B25X40	2500,000	168,614	DC0N2	311,148	DC0N2	0,503	DC0N10
6C24	B25X40	5000,000	397,915	DC0N3	219,551	DC0N2	0,861	DC0N10
6CY1	B25X40	0,000	296,205	DC0N4	117,179	DC0N4	0,305	BH
6CY1	B25X40	3500,000	58,190	DC0N3	118,544	DC0N1	0,154	BH
6CY1	B25X40	7000,000	235,490	DC0N3	116,667	DC0N3	0,304	BH
6CY2	B25X40	0,000	475,606	DC0N5	160,990	DC0N5	0,961	DC0N2
6CY2	B25X40	700,107	177,991	DC0N4	50,816	DC0N4	0,992	DC0N2
6CY3	B25X40	225,000	196,792	DC0N5	97,861	DC0N5	1,699	DC0N1
6CY3	B25X40	612,600	67,181	DC0N5	48,624	DC0N5	1,675	DC0N1
6CY3	B25X40	1000,000	16,739	DC0N5	130,194	DC0N4	1,452	DC0N1
6CY4	B25X40	0,000	17,162	DC0N5	129,699	DC0N3	1,656	DC0N1
6CY4	B25X40	387,500	68,063	DC0N5	45,138	DC0N5	1,681	DC0N1
6CY4	B25X40	775,000	188,489	DC0N5	98,594	DC0N5	1,704	DC0N1
6CY5	B25X40	0,000	177,311	DC0N6	160,696	DC0N5	0,868	DC0N2
6CY5	B25X40	700,107	122,705	DC0N6	60,683	DC0N3	0,900	DC0N2
6CY5	B25X40	1414,214	204,794	DC0N3	101,705	DC0N3	0,940	DC0N1
6CY6	B25X40	0,000	98,307	DC0N5	114,850	DC0N6	0,856	DC0N1
6CY6	B25X40	387,500	15,094	DC0N3	28,551	DC0N6	0,879	DC0N1
6CY6	B25X40	775,000	81,987	DC0N3	60,296	DC0N4	0,908	DC0N1
6CY7	B25X40	225,000	441,532	DC0N4	288,522	DC0N4	0,334	BH
6CY7	B25X40	3500,000	142,519	DC0N3	295,557	DC0N1	0,934	BH
6CY7	B25X40	6275,000	440,441	DC0N3	287,787	DC0N3	0,884	BH
6CY8	B25X40	225,000	81,894	DC0N4	60,134	DC0N2	0,907	DC0N1
6CY8	B25X40	612,500	23,868	DC0N1	21,794	DC0N3	0,884	DC0N1
6CY8	B25X40	1000,000	100,091	DC0N5	115,697	DC0N5	0,860	DC0N1
6CY9	B25X40	250,000	311,148	DC0N5	161,816	DC0N5	0,505	DC0N1
6CY9	B25X40	2625,000	60,979	DC0N5	60,378	DC0N5	0,870	DC0N2
6CY9	B25X40	6000,000	200,718	DC0N5	311,067	DC0N5	0,448	DC0N1

6D10	B20X50	0,000	6,911	D20N2	10,054	D20N4	0,130	D20N2
6D10	B20X50	500,000	11,872	D20N3	6,034	D20N1	0,110	D20N2
6D10	B20X50	1000,000	32,184	D20N2	16,076	D20N2	0,293	D20N2
6D11	B20X50	0,000	24,945	D20N4	13,451	D20N1	0,248	D20N1
6D11	B20X50	1000,000	85,545	D20N2	44,869	D20N3	0,818	D20N2
6D11	B20X50	2500,000	181,048	D20N3	89,956	D20N3	0,871	D20N1
6D12	B20X50	0,000	96,948	D20N3	49,158	D20N3	0,945	D20N1
6D12	B20X50	1250,000	77,620	D20N2	30,031	D20N2	0,548	D20N2
6D12	B20X50	3500,000	115,491	D20N2	01,001	D20N2	0,595	D20N1
6D13	B20X50	0,000	185,183	D20N3	60,048	D20N3	0,896	D20N1
6D13	B20X50	1250,000	98,650	D20N2	34,877	D20N2	0,579	D20N2
6D13	B20X50	3500,000	136,016	D20N2	48,708	D20N2	0,936	D20N1
6D14	B20X50	0,000	49,797	D20N3	21,196	D20N3	0,375	D20N2
6D14	B20X50	1250,000	56,003	D20N2	84,490	D20N2	0,835	D20N2
6D14	B20X50	3500,000	130,514	D20N2	66,861	D20N2	0,370	D20N1
6D15	B20X50	0,000	50,670	D20N3	16,065	D20N3	0,273	D20N2
6D15	B20X50	1000,000	68,679	D20N3	30,896	D20N3	0,318	D20N1
6D15	B20X50	2500,000	146,692	D20N3	73,966	D20N3	0,365	D20N1
6D16	B20X50	0,000	30,966	D20N3	10,177	D20N3	0,167	D20N2
6D16	B20X50	1000,000	87,324	D20N4	38,805	D20N4	0,307	D20N1
6D16	B20X50	2500,000	144,318	D20N4	71,774	D20N4	0,364	D20N1
6D17	B20X50	0,000	84,873	D20N3	42,050	D20N3	0,167	D20N1
6D17	B20X50	1250,000	16,462	D20N3	28,911	D20N3	0,141	D20N2
6D17	B20X50	3000,000	36,810	D20N2	18,287	D20N2	0,206	D20N1
6D18	B20X50	0,000	47,896	D20N3	20,781	D20N3	0,169	D20N1
6D18	B20X50	1000,000	15,387	D20N3	25,504	D20N3	0,140	D20N2
6D18	B20X50	3000,000	43,082	D20N2	21,412	D20N2	0,204	D20N1
6D19	B20X50	125,000	175,804	D20N3	87,408	D20N3	0,999	D20N1
6D19	B20X50	1250,000	59,978	D20N4	56,351	D20N3	0,468	D20N1
6D19	B20X50	3375,000	140,279	D20N4	116,618	D20N4	0,801	D20N1
6D20	B20X50	0,000	0,000	D20N3	61,372	D20N2	0,651	D20N2
6D20	B20X50	1187,500	111,021	D20N4	111,021	D20N2	0,768	D20N1
6D20	B20X50	2875,000	349,401	D20N4	223,031	D20N2	0,964	D20N1
6D21	B20X50	0,000	73,678	D20N3	36,718	D20N3	0,170	EH
6D21	B20X50	2250,000	84,320	D20N4	177,036	D20N2	0,096	EH
6D21	B20X50	4500,000	97,737	D20N4	48,716	D20N4	0,172	EH
6D22	B20X50	0,000	119,158	D20N2	59,390	D20N2	0,185	EH
6D22	B20X50	2250,000	29,512	D20N2	152,352	D20N2	0,106	EH
6D22	B20X50	4500,000	54,443	D20N2	27,174	D20N2	0,173	EH
6D23	B20X50	0,000	90,214	D20N4	35,828	D20N3	0,388	D20N10
6D23	B20X50	2187,500	187,812	D20N2	107,812	D20N2	0,379	D20N10
6D23	B20X50	4875,000	390,892	D20N2	266,140	D20N2	0,570	D20N10
6D24	B20X50	125,000	187,819	D20N3	90,126	D20N3	0,496	EH
6D24	B20X50	2250,000	87,556	D20N2	87,556	D20N2	0,389	EH
6D24	B20X50	4875,000	318,694	D20N2	178,118	D20N2	0,543	EH
6D25	B20X50	0,000	63,470	D20N3	31,675	D20N3	0,060	EH
6D25	B20X50	2187,500	15,320	D20N1	24,781	D20N1	0,060	EH
6D25	B20X50	4875,000	38,850	D20N3	19,901	D20N3	0,060	EH
6D26	B20X50	0,000	62,818	D20N3	31,346	D20N1	0,060	EH
6D26	B20X50	2187,500	15,558	D20N1	24,810	D20N1	0,060	EH
6D26	B20X50	4875,000	40,397	D20N4	20,142	D20N4	0,060	EH
6D27	B20X50	125,000	190,921	D20N4	92,501	D20N4	0,468	EH
6D27	B20X50	2250,000	88,287	D20N2	88,287	D20N2	0,340	EH
6D27	B20X50	4875,000	319,834	D20N2	177,586	D20N2	0,548	EH
6D28	B20X50	0,000	73,792	D20N3	36,814	D20N4	0,340	D20N10
6D28	B20X50	2187,500	133,163	D20N2	133,163	D20N2	0,411	D20N10
6D28	B20X50	4875,000	410,378	D20N2	268,667	D20N2	0,602	D20N10
6D29	B20X50	0,000	106,935	D20N3	52,818	D20N1	0,201	EH
6D29	B20X50	2250,000	31,198	D20N3	228,206	D20N2	0,105	EH
6D29	B20X50	4500,000	126,544	D20N2	62,520	D20N2	0,196	EH
6D30	B20X50	0,000	148,090	D20N4	81,150	D20N3	0,268	EH
6D30	B20X50	2250,000	40,455	D20N2	245,248	D20N2	0,132	EH
6D30	B20X50	4500,000	89,766	D20N3	19,850	D20N3	0,194	EH
6D31	B20X50	0,000	1,550	D20N3	60,521	D20N3	0,344	EH
6D31	B20X50	2437,500	114,996	D20N2	206,388	D20N1	0,316	EH
6D31	B20X50	4875,000	384,437	D20N3	291,721	D20N2	0,407	EH
7DY1	B25X40	0,000	0,000	D20N1	198,605	D20N1	0,864	D20N1
7DY1	B25X40	1637,500	90,484	D20N4	126,390	D20N3	0,855	D20N1
7DY1	B25X40	3275,000	311,148	D20N4	161,881	D20N4	0,783	D20N1

7CY1	B25X40	0,000	0,000	DCON1	144,595	DCON1	0,565	DCON1
7CY2	B25X40	1687,500	80,183	DCON5	126,980	DCON4	0,854	DCON1
7CY2	B25X40	3375,000	311,148	DCON3	151,250	DCON3	0,732	DCON1
7CY3	B25X40	1.25,000	248,114	DCON4	114,198	DCON4	0,898	DCON1
7CY5	B25X40	1518,500	61,270	DCON5	78,548	DCON5	0,249	DCON1
7CY6	B25X40	3000,000	94,745	DCON3	89,611	DCON6	0,325	DCON1
7CY4	B25X40	0,000	14,505	DCON5	2,251	DCON5	0,155	EH
7CY4	B25X40	2500,000	19,827	DCON5	45,642	DCON1	0,065	EH
7CY4	B25X40	5000,000	79,617	DCON5	85,750	DCON6	0,062	EH
7CY5	B25X40	506,000	248,914	DCON4	100,146	DCON4	0,393	DCON1
7CY5	B25X40	2532,500	61,233	DCON5	90,567	DCON5	0,243	DCON1
7CY5	B25X40	5000,000	97,298	DCON5	88,994	DCON5	0,309	DCON1
7CY6	B25X40	350,000	417,103	DCON4	283,635	DCON4	2,964	DCON1
7CY6	B25X40	625,000	311,231	DCON4	130,612	DCON4	2,817	DCON1
7CY6	B25X40	1000,000	311,148	DCON1	155,135	DCON4	2,794	DCON1
7CY7	B25X40	0,000	0,000	DCON1	311,148	DCON1	0,568	DCON1
7CY7	B25X40	1750,000	83,921	DCON5	138,157	DCON5	0,773	DCON1
7CY7	B25X40	3500,000	311,148	DCON4	168,731	DCON4	0,870	DCON1
7CY8	B25X40	0,000	0,000	DCON1	311,148	DCON1	0,568	DCON1
7CY8	B25X40	1750,000	83,967	DCON3	138,156	DCON4	0,773	DCON1
7CY8	B25X40	3501,000	311,148	DCON3	168,573	DCON3	0,878	DCON1
7CY9	B25X40	350,000	412,969	DCON3	280,181	DCON3	2,845	DCON1
7CY9	B25X40	625,000	321,799	DCON5	133,885	DCON3	2,820	DCON1
7CY9	B25X40	1000,000	311,148	DCON3	155,305	DCON3	2,796	DCON1
8B10	BI30X50	0,000	99,731	DCON10	310,102	DCON5	2,794	DCON2
8B10	BI30X50	625,000	116,788	DCON5	128,258	DCON2	2,938	DCON2
8B10	BI30X50	1250,000	511,984	DCON6	297,955	DCON2	2,904	DCON2
8B11	BI30X50	170,000	7,566	DCON10	98,977	DCON5	1,186	DCON1
8B11	BI30X50	500,000	47,127	DCON1	127,505	DCON2	1,147	DCON1
8B11	BI30X50	850,000	0,000	DCON1	189,568	DCON1	1,115	DCON1
8B12	BI30X50	150,000	9,502	DCON10	102,652	DCON5	1,218	DCON1
8B12	BI30X50	500,000	48,079	DCON1	130,385	DCON2	1,174	DCON1
8B12	BI30X50	850,000	0,000	DCON1	133,524	DCON1	1,142	DCON1
8B13	BI30X50	150,000	12,918	DCON5	85,619	DCON2	0,000	EH
8B13	BI30X50	1375,000	18,225	DCON1	77,489	DCON2	0,138	EH
8B13	BI30X50	2600,000	0,737	EH	78,972	DCON1	0,169	DCON1
8B14	BI30X50	150,000	30,009	DCON9	42,670	DCON4	0,273	DCON1
8B14	BI30X50	1375,000	14,341	DCON1	74,893	DCON2	0,186	DCON1
8B14	BI30X50	2600,000	2,702	EH	77,587	DCON1	0,189	DCON2
8B15	BI30X50	0,000	296,118	DCON5	142,173	DCON5	0,272	EH
8B15	BI30X50	3500,000	70,969	DCON5	466,175	DCON2	0,231	EH
8B15	BI30X50	7000,000	43,594	DCON10	223,397	DCON5	0,256	EH
8B16	BI30X50	150,000	213,768	DCON5	111,035	DCON2	0,000	EH
8B16	BI30X50	3500,000	55,415	DCON2	370,528	DCON2	0,192	EH
8B16	BI30X50	6850,000	57,473	DCON6	125,755	DCON5	0,216	EH
8B17	B30X30	150,000	948,961	DCON5	726,177	DCON2	0,194	EH
8B17	B30X30	3500,000	111,510	DCON2	367,304	DCON2	0,228	EH
8B17	B30X30	6850,000	217,971	DCON2	138,043	DCON2	0,179	EH
8B18	BI30X50	0,000	282,009	DCON5	191,875	DCON5	0,385	EH
8B18	BI30X50	3500,000	95,541	DCON5	467,645	DCON2	0,315	EH
8B18	BI30X50	7000,000	39,946	DCON10	306,078	DCON5	0,329	EH
8B19	BI30X50	150,000	230,060	DCON5	188,668	DCON4	0,602	DCON2
8B19	BI30X50	2125,000	96,566	DCON5	115,632	DCON2	0,507	DCON2
8B19	BI30X50	4100,000	190,535	DCON6	250,696	DCON5	0,571	DCON1
8B20	BI30X50	150,000	178,451	DCON5	128,860	DCON10	0,974	DCON2
8B20	BI30X50	2125,000	92,874	DCON5	148,220	DCON5	0,454	DCON2
8B20	BI30X50	4100,000	177,999	DCON5	335,125	DCON5	0,509	DCON1
8B21	BI30X50	150,000	370,603	DCON5	165,285	DCON5	3,260	DCON1
8B21	BI30X50	500,000	221,127	DCON5	187,444	DCON5	3,229	DCON1
8B21	BI30X50	850,000	77,612	DCON5	241,129	DCON6	3,191	DCON1
8B22	B20X30	150,000	235,751	DCON5	152,295	DCON5	2,507	DCON1
8B22	B20X30	500,000	111,085	DCON5	103,530	DCON10	2,464	DCON1
8B22	B20X30	850,000	0,000	DCON1	176,345	DCON6	2,434	DCON1
8B23	BI30X50	0,000	769,594	DCON5	134,011	DCON5	3,905	DCON2
8B23	BI30X50	625,000	974,786	DCON5	308,222	DCON2	3,863	DCON2
8B23	BI30X50	1250,000	984,077	DCON5	477,425	DCON5	3,928	DCON2
8B24	BI30X50	0,000	76,148	DCON2	39,505	DCON2	0,905	DCON2
8B24	BI30X50	675,000	46,213	DCON6	87,815	DCON6	0,845	DCON2

BB14	B150X50	1350,000	1,947	DC0N4	185,947	DC0N4	11,545	DC0N1
BB25	B150X50	250,000	746,482	DC0N2	474,147	DC0N2	4,154	DC0N2
BB25	B150X50	900,000	390,454	DC0N1	241,569	DC0N2	4,084	DC0N1
BB25	B150X50	1350,000	0,000	DC0N1	143,135	DC0N2	4,012	DC0N1
BB26	B150X50	250,000	474,147	DC0N2	310,907	DC0N1	3,992	DC0N2
BB26	B150X50	800,000	145,770	DC0N5	159,357	DC0N1	3,612	DC0N2
BB26	B150X50	1350,000	0,000	DC0N1	230,230	DC0N2	3,644	DC0N1
BB27	B150X50	250,000	501,750	DC0N1	909,881	DC0N1	3,716	DC0N2
BB27	B150X50	800,000	173,077	DC0N5	166,812	DC0N1	3,636	DC0N2
BB27	B150X50	1350,000	0,000	DC0N1	247,210	DC0N1	3,668	DC0N1
BB28	B150X50	250,000	764,881	DC0N2	474,147	DC0N1	4,167	DC0N2
BB28	B150X50	900,000	414,047	DC0N5	240,297	DC0N2	4,047	DC0N2
BB28	B150X50	1350,000	0,000	DC0N1	141,984	DC0N2	3,975	DC0N1
BB29	B150X50	0,000	79,966	DC0N2	33,916	DC0N1	0,756	DC0N1
BB29	B150X50	475,000	82,478	DC0N5	58,573	DC0N6	0,650	DC0N1
BB29	B150X50	1350,000	0,000	DC0N1	190,498	DC0N6	0,598	DC0N1
BB30	B150X50	0,000	854,287	DC0N5	180,868	DC0N5	4,006	DC0N2
BB30	B150X50	825,000	494,113	DC0N5	354,731	DC0N5	4,060	DC0N2
BB30	B150X50	1350,000	0,000	DC0N5	498,481	DC0N5	4,135	DC0N2
BB31	B150X50	250,000	519,288	DC0N5	113,574	DC0N10	0,867	DC0N2
BB31	B150X50	800,000	479,147	DC0N5	151,986	DC0N10	0,861	DC0N2
BB31	B150X50	1350,000	474,147	DC0N5	189,998	DC0N10	0,959	DC0N2
BB32	B150X50	250,000	474,147	DC0N5	90,160	DC0N10	0,944	DC0N2
BB32	B150X50	300,000	470,349	DC0N5	67,539	DC0N10	0,910	DC0N2
BB32	B150X50	1350,000	484,868	DC0N5	184,940	DC0N10	0,906	DC0N2
BB33	B150X50	0,000	0,000	DC0N1	474,147	DC0N2	0,892	DC0N1
BB33	B150X50	1125,000	172,915	DC0N2	252,908	DC0N2	1,173	DC0N1
BB33	B150X50	1350,000	597,836	DC0N4	348,155	DC0N2	1,483	DC0N1
BB34	B150X50	0,000	0,000	DC0N1	474,147	DC0N2	0,892	DC0N1
BB34	B150X50	1125,000	170,806	DC0N2	265,372	DC0N4	1,167	DC0N1
BB34	B150X50	1350,000	593,064	DC0N2	343,776	DC0N2	1,459	DC0N1
BB35	B30X50	150,000	78,853	DC0N5	37,885	DC0N5	0,410	DC0N2
BB35	B30X50	1325,000	66,438	DC0N2	46,197	DC0N5	0,370	DC0N2
BB35	B30X50	2500,000	146,447	DC0N5	108,688	DC0N5	0,486	DC0N1
BB36	B30X50	150,000	474,147	DC0N2	274,366	DC0N2	1,168	DC0N2
BB36	B30X50	1800,000	154,718	DC0N2	136,319	DC0N2	0,916	DC0N2
BB36	B30X50	2500,000	5,606	DC0N4	18,996	DC0N5	0,719	DC0N2
BB37	B30X50	0,000	0,000	DC0N1	46,013	DC0N2	1,804	DC0N2
BB37	B30X50	1250,000	474,147	DC0N2	921,871	DC0N2	2,007	DC0N2
BB37	B30X50	2500,000	1010,564	DC0N2	489,948	DC0N2	2,268	DC0N2
BB38	B30X50	0,000	0,000	DC0N1	39,674	DC0N2	1,001	DC0N2
BB38	B30X50	1250,000	154,151	DC0N2	193,283	DC0N2	1,234	DC0N2
BB38	B30X50	2500,000	596,763	DC0N2	389,572	DC0N2	1,484	DC0N2
BB39	B30X50	150,000	109,450	DC0N2	64,565	DC0N2	0,987	DC0N2
BB39	B30X50	1325,000	69,886	DC0N2	126,268	DC0N2	0,774	DC0N2
BB39	B30X50	2500,000	76,947	DC0N10	382,111	DC0N2	0,684	DC0N1
BB40	B30X50	150,000	24,547	DC0N5	31,284	DC0N6	0,445	DC0N1
BB40	B30X50	1325,000	63,636	DC0N2	42,679	DC0N2	0,495	DC0N4
BB40	B30X50	2500,000	157,765	DC0N2	115,692	DC0N2	0,699	DC0N1
BB41	B30X50	0,000	0,000	DC0N1	21,158	DC0N2	0,101	EH
BB41	B30X50	1325,000	37,110	DC0N2	98,881	DC0N2	0,164	EH
BB41	B30X50	2750,000	111,712	DC0N2	99,722	DC0N2	0,196	EH
BB42	B30X50	150,000	34,282	DC0N5	30,862	DC0N6	0,424	DC0N1
BB42	B30X50	1325,000	53,990	DC0N2	43,990	DC0N2	0,432	DC0N4
BB42	B30X50	2500,000	217,483	DC0N2	108,231	DC0N2	0,634	DC0N1
BB43	B30X50	150,000	104,126	DC0N2	66,870	DC0N2	0,949	DC0N2
BB43	B30X50	1325,000	64,426	DC0N5	102,491	DC0N2	0,795	DC0N2
BB43	B30X50	2500,000	111,800	DC0N10	259,582	DC0N5	0,637	DC0N1
BB44	B30X50	0,000	0,000	DC0N1	28,832	DC0N2	1,015	DC0N2
BB44	B30X50	1250,000	201,105	DC0N2	196,948	DC0N2	1,219	DC0N2
BB44	B30X50	2500,000	597,052	DC0N2	391,215	DC0N2	1,470	DC0N2
BB45	B30X50	0,000	0,000	DC0N1	66,015	DC0N2	0,007	DC0N1
BB45	B30X50	1250,000	474,147	DC0N2	340,681	DC0N2	2,211	DC0N2
BB45	B30X50	2500,000	1139,313	DC0N1	549,999	DC0N2	2,462	DC0N2
BB46	B30X50	250,000	781,493	DC0N2	474,147	DC0N2	1,862	DC0N2
BB46	B30X50	1500,000	363,218	DC0N2	251,595	DC0N2	1,610	DC0N2
BB46	B30X50	2750,000	0,000	DC0N1	55,412	DC0N2	1,407	DC0N2

BK47	B40X40	160,000	161,647	DC0N5	50,865	DC0N5	0,488	DC0N2
BK47	B20X50	1925,000	61,995	DC0N5	55,350	DC0N5	0,345	DC0N2
BK47	B30X50	2500,000	147,854	DC0N2	126,092	DC0N5	0,413	DC0N1
BCY1	B25X40	0,000	0,000	DC0N2	466,061	DC0N5	0,460	BH
BCY1	B25X40	1500,000	106,175	DC0N2	106,175	DC0N2	0,460	BH
BCY1	B25X40	2999,999	540,934	DC0N2	211,148	DC0N2	0,460	BH
BCY2	B25X40	0,000	0,000	DC0N1	436,600	DC0N2	0,879	DC0N1
BCY2	B25X40	1650,000	140,968	DC0N1	440,709	DC0N2	0,895	DC0N1
BCY2	B25X40	2700,000	0,000	DC0N1	435,061	DC0N2	0,879	DC0N1
BCY3	B25X40	150,000	542,161	DC0N2	211,148	DC0N2	0,460	BH
BCY3	B25X40	1650,000	175,849	DC0N2	175,849	DC0N2	0,462	BH
BCY3	B25X40	2149,999	0,000	DC0N1	435,500	DC0N2	0,460	BH
BCY4	B25X40	150,000	141,065	DC0N2	70,207	DC0N2	1,647	DC0N2
BCY4	B25X40	500,000	38,081	DC0N3	35,023	DC0N2	1,824	DC0N2
BCY4	B25X40	949,999	0,000	DC0N1	60,190	DC0N2	1,806	DC0N2
BCY5	B25X40	150,000	0,000	DC0N1	70,590	DC0N2	1,695	DC0N2
BCY5	B25X40	500,000	40,750	DC0N4	35,805	DC0N2	1,504	DC0N2
BCY5	B25X40	949,999	143,015	DC0N2	71,176	DC0N2	1,522	DC0N2
BCY6	B25X40	0,000	0,000	DC0N1	168,846	DC0N2	0,914	BH
BCY6	B25X40	1075,000	57,115	DC0N2	59,218	DC0N1	0,960	BH
BCY6	B25X40	2150,000	231,540	DC0N2	114,884	DC0N2	0,406	BH
BCY7	B25X40	0,000	0,000	DC0N1	174,534	DC0N2	0,266	DC0N10
BCY7	B25X40	1075,000	49,824	DC0N2	45,824	DC0N2	0,311	DC0N10
BCY7	B25X40	2150,000	201,290	DC0N2	93,975	DC0N2	0,352	DC0N10
BCY8	B25X40	0,000	0,000	DC0N1	146,601	DC0N2	0,230	DC0N1
BCY8	B25X40	1200,000	40,397	DC0N2	176,501	DC0N2	0,161	DC0N2
BCY8	B25X40	2400,000	0,000	DC0N1	162,854	DC0N2	0,111	DC0N1
BCY9	B25X40	150,000	736,512	DC0N7	112,867	DC0N2	0,150	BH
BCY9	B25X40	3600,000	37,904	DC0N2	67,124	DC0N1	0,150	BH
BCY9	B25X40	5850,000	136,056	DC0N5	67,729	DC0N2	0,150	BH
BD10	B20X50	0,000	0,000	DC0N2	147,700	DC0N2	0,391	BH
BD10	B20X50	2187,500	115,448	DC0N2	115,448	DC0N2	0,461	BH
BD10	B20X50	4375,000	354,436	DC0N2	232,639	DC0N2	0,553	BH
BD11	B20X50	0,000	116,750	DC0N2	58,158	DC0N2	0,155	BH
BD11	B20X50	2250,000	39,925	DC0N2	195,049	DC0N2	0,130	BH
BD11	B20X50	4500,000	9,154	DC0N10	52,087	DC0N2	0,146	BH
BD12	B20X50	0,000	0,000	DC0N1	69,094	DC0N2	0,179	BH
BD12	B20X50	2250,000	36,409	DC0N2	195,721	DC0N2	0,171	BH
BD12	B20X50	4500,000	146,686	DC0N2	72,989	DC0N2	0,208	BH
BD13	B20X50	0,000	0,000	DC0N1	130,117	DC0N2	0,296	BH
BD13	B20X50	2437,500	87,075	DC0N2	252,319	DC0N2	0,377	BH
BD13	B20X50	4875,000	319,634	DC0N2	175,136	DC0N2	0,573	BH
BF10	B20X30	225,000	696,398	DC0N4	154,604	DC0N4	0,694	DC0N1
BF10	B20X30	1237,500	76,610	DC0N4	119,423	DC0N3	0,573	DC0N1
BF10	B20X30	2250,000	0,000	DC0N1	182,885	DC0N2	0,438	DC0N1
BF11	B20X30	0,000	0,000	DC0N1	130,317	DC0N2	0,498	BH
BF11	B20X30	1000,000	32,627	DC0N3	126,741	DC0N4	0,623	BH
BF11	B20X30	2000,000	237,490	DC0N3	178,201	DC0N3	0,779	BH
BF12	B20X30	0,000	0,000	DC0N1	95,347	DC0N3	0,707	DC0N1
BF12	B20X30	625,000	56,586	DC0N4	44,011	DC0N1	0,760	DC0N1
BF12	B20X30	1250,000	178,203	DC0N1	88,474	DC0N1	0,849	DC0N1
BF13	B20X30	0,000	0,000	DC0N1	95,536	DC0N4	0,706	DC0N1
BF13	B20X30	625,000	57,319	DC0N2	44,105	DC0N1	0,758	DC0N1
BF13	B20X30	1250,000	178,203	DC0N1	88,304	DC0N1	0,847	DC0N1
BF14	B20X30	0,000	0,000	DC0N1	168,536	DC0N3	0,473	BH
BF14	B20X30	1000,000	90,746	DC0N4	128,870	DC0N3	0,508	BH
BF14	B20X30	2000,000	381,447	DC0N4	178,203	DC0N4	0,764	BH
BF15	B20X30	225,000	845,566	DC0N3	160,502	DC0N3	0,716	DC0N1
BF15	B20X30	1237,500	79,504	DC0N3	111,110	DC0N4	0,595	DC0N1
BF15	B20X30	2250,000	0,000	DC0N1	151,348	DC0N2	0,459	DC0N1
BF16	B20X30	225,000	251,963	DC0N3	164,638	DC0N3	0,599	BH
BF16	B20X30	1250,000	91,535	DC0N3	127,366	DC0N1	0,508	BH
BF16	B20X30	4275,000	249,030	DC0N4	162,761	DC0N4	0,601	BH
BF17	B20X30	0,000	50,615	DC0N7	179,208	DC0N4	0,482	DC0N2
BF17	B20X30	1637,500	75,396	DC0N4	106,927	DC0N2	0,406	DC0N2
BF17	B20X30	3275,000	232,427	DC0N4	152,120	DC0N4	0,585	DC0N2
BF18	B20X30	225,000	209,214	DC0N3	178,208	DC0N3	0,685	DC0N2
BF18	B20X30	812,500	172,986	DC0N3	105,524	DC0N3	0,636	DC0N2
BF18	B20X30	1000,000	0,000	DC0N1	206,454	DC0N4	0,603	DC0N2

8F18	B30X30	0,000	184,881	D30N4	121,440	D20N4	0,196	D20N2
8F19	B30X30	425,000	59,761	D30N2	114,281	D20N3	2,136	D20N2
8F19	B20X30	850,000	0,000	D20N1	221,089	D20N3	2,055	D20N2
8F20	B30X30	150,000	226,731	D20N2	112,271	D20N2	0,857	D20N1
8F20	B30X30	1750,000	55,854	D20N2	106,041	D20N2	0,806	D20N2
8F20	B30X30	3850,000	0,000	D20N1	145,642	D20N2	0,515	D20N2
8F21	B30X30	150,000	193,826	D20N3	46,401	D20N3	0,464	D20N10
8F21	B30X30	2250,000	48,274	D20N2	97,868	D20N2	0,264	D20N10
8F21	B30X30	4350,000	179,870	D20N4	86,712	D20N4	0,436	D20N10
8F22	B30X30	150,000	191,411	D20N3	85,147	D20N3	0,162	BH
8F22	B30X30	2250,000	48,482	D20N2	105,541	D20N2	0,209	BH
8F22	B30X30	4350,000	158,286	D20N4	78,668	D20N4	0,244	BH
8F23	B30X30	150,000	171,025	D20N3	85,464	D20N3	0,295	BH
8F23	B30X30	2250,000	42,595	D20N2	105,006	D20N2	0,202	BH
8F23	B30X30	4350,000	158,865	D20N4	79,838	D20N4	0,245	BH
8F24	B30X30	150,000	191,388	D20N3	88,886	D20N3	0,446	D20N10
8F24	B30X30	2250,000	48,791	D20N2	98,518	D20N2	0,255	D20N10
8F24	B30X30	4350,000	174,137	D20N4	86,515	D20N4	0,431	D20N10
8F25	B30X30	150,000	222,513	D20N3	110,861	D20N3	0,844	D20N2
8F25	B30X30	1750,000	54,918	D20N2	105,269	D20N2	0,550	D20N2
8F25	B30X30	3850,000	0,000	D20N1	140,119	D20N2	0,509	D20N2
8F26	B20X30	0,000	260,168	D20N3	100,503	D20N3	1,846	D20N2
8F26	B20X30	425,000	64,795	D20N2	121,102	D20N4	2,298	D20N2
8F26	B20X30	850,000	0,000	D20N1	221,352	D20N4	2,215	D20N2
8F27	B20X30	0,000	193,646	D20N4	99,057	D20N3	0,597	D20N5
8F27	B20X30	425,000	79,744	D20N2	79,744	D20N2	0,660	D20N5
8F27	B20X30	850,000	0,000	D20N1	308,930	D20N2	0,484	D20N5
8F28	B30X30	150,000	191,846	D20N3	184,698	D20N3	0,975	D20N6
8F28	B30X30	1750,000	91,655	D20N2	111,885	D20N2	0,769	D20N6
8F28	B30X30	3850,000	0,000	D20N1	267,304	D20N2	0,563	D20N6
8F29	B30X30	150,000	199,841	D20N3	90,830	D20N3	0,300	BH
8F29	B30X30	2250,000	58,648	D20N2	137,790	D20N2	0,166	BH
8F29	B30X30	4350,000	267,304	D20N2	138,027	D20N2	0,311	BH
8F30	B30X30	150,000	260,804	D20N3	141,440	D20N3	0,311	BH
8F30	B30X30	2250,000	70,336	D20N2	157,098	D20N2	0,269	BH
8F30	B30X30	4350,000	186,073	D20N4	90,370	D20N4	0,294	BH
8F31	B30X30	150,000	252,219	D20N3	124,880	D20N2	0,312	BH
8F31	B30X30	2250,000	62,141	D20N2	161,757	D20N2	0,270	BH
8F31	B30X30	4350,000	195,399	D20N3	96,365	D20N3	0,300	BH
8F32	B30X30	150,000	181,254	D20N3	88,995	D20N3	0,298	BH
8F32	B30X30	2250,000	68,228	D20N2	139,470	D20N2	0,268	BH
8F32	B30X30	4350,000	267,304	D20N2	137,177	D20N2	0,311	BH
8F33	B30X30	150,000	267,304	D20N2	172,949	D20N2	0,995	D20N1
8F33	B30X30	1750,000	85,999	D20N2	106,786	D20N2	0,759	D20N1
8F33	B30X30	3850,000	0,000	D20N1	267,304	D20N2	0,560	D20N6
8F34	B20X30	0,000	239,114	D20N3	94,394	D20N3	0,426	D20N2
8F34	B20X30	425,000	73,844	D20N2	71,844	D20N2	0,369	D20N2
8F34	B20X30	850,000	0,000	D20N1	278,210	D20N2	0,286	D20N2
8F35	B20X30	225,000	195,335	D20N4	118,989	D20N3	0,998	BH
8F35	B20X30	2800,000	59,086	D20N2	169,721	D20N2	0,212	BH
8F35	B20X30	4275,000	180,099	D20N3	111,805	D20N2	0,388	BH
8F36	B20X30	225,000	176,908	D20N3	166,516	D20N3	0,492	D20N10
8F36	B20X30	2250,000	50,534	D20N2	131,976	D20N2	0,299	D20N10
8F36	B20X30	4275,000	185,320	D20N4	101,564	D20N2	0,452	D20N10
8F37	B20X30	882,500	112,260	D20N4	79,449	D20N2	0,638	D20N2
8F37	B20X30	775,000	278,791	D20N4	160,490	D20N2	0,711	D20N2
8F38	B20X30	225,000	251,065	D20N3	138,948	D20N2	0,706	D20N10
8F38	B20X30	1862,500	58,919	D20N2	178,208	D20N2	0,467	D20N10
8F38	B20X30	3300,000	20,639	D20N4	106,430	D20N3	0,559	D20N10
8F39	B20X30	225,000	261,331	D20N3	149,244	D20N2	0,419	BH
8F39	B20X30	2250,000	73,977	D20N2	176,208	D20N2	0,306	BH
8F39	B20X30	4275,000	225,433	D20N4	120,020	D20N2	0,405	BH
8F40	B20X30	250,000	346,098	D20N3	178,208	D20N2	0,468	BH
8F40	B20X30	2362,500	99,094	D20N2	176,840	D20N2	0,341	BH
8F40	B20X30	4275,000	190,586	D20N4	125,230	D20N4	0,497	BH
8F41	B20X30	250,000	344,412	D20N4	178,208	D20N2	0,471	BH
8F41	B20X30	2362,500	97,808	D20N2	174,369	D20N2	0,363	BH
8F41	B20X30	4275,000	198,217	D20N3	130,096	D20N3	0,440	BH

8F41	B20X30	150,000	9,000	DC0N4	147,840	DC0N4	0,411	BH
8F42	B20X30	2250,000	73,190	DC0N2	178,203	DC0N2	0,304	BH
8F42	B20X30	4275,000	113,135	DC0N3	118,478	DC0N2	0,403	BH
8F43	B20X30	150,000	9,000	DC0N4	144,479	DC0N4	0,402	DC0N10
8F43	B20X30	1862,500	64,177	DC0N2	178,203	DC0N2	0,456	DC0N10
8F43	B20X30	3500,000	28,863	DC0N2	96,591	DC0N4	0,662	DC0N10
8F44	B20X30	0,000	0,000	DC0N3	174,824	DC0N2	0,614	BH
8F44	B20X30	387,500	119,380	DC0N3	77,496	DC0N2	0,867	DC0N2
8F44	B20X30	775,000	272,045	DC0N3	156,987	DC0N2	0,840	DC0N2
8F45	B20X30	975,000	179,202	DC0N4	111,053	DC0N4	0,406	DC0N10
8F45	B20X30	2250,000	45,350	DC0N2	139,151	DC0N2	0,254	BH
8F45	B20X30	4875,000	179,202	DC0N2	91,177	DC0N2	0,436	DC0N10
8F46	B20X30	775,000	199,603	DC0N3	118,815	DC0N2	0,299	BH
8F46	B20X30	2500,000	58,783	DC0N2	178,201	DC0N2	0,213	BH
8F46	B20X30	4775,000	178,103	DC0N2	108,116	DC0N2	0,252	BH
8F47	B20X30	150,000	24,284	DC0N4	24,608	DC0N4	0,146	DC0N5
8F47	B20X30	1750,000	15,911	DC0N2	15,911	DC0N2	0,148	DC0N2
8F48	B20X30	150,000	28,986	DC0N4	31,976	DC0N4	0,063	BH
8F48	B20X30	2250,000	17,586	DC0N2	39,477	DC0N2	0,063	BH
8F48	B20X30	4350,000	70,761	DC0N2	36,247	DC0N2	0,060	BH
8F49	B20X30	150,000	16,067	DC0N10	32,011	DC0N5	0,161	BH
8F49	B20X30	2250,000	30,140	DC0N2	32,140	DC0N2	0,150	BH
8F49	B20X30	4350,000	130,043	DC0N2	64,633	DC0N2	0,226	BH
8F50	B20X30	150,000	14,295	DC0N10	33,481	DC0N5	0,153	BH
8F50	B20X30	2250,000	30,530	DC0N2	32,530	DC0N2	0,153	BH
8F50	B20X30	4350,000	131,570	DC0N2	65,285	DC0N2	0,229	BH
8F51	B20X30	150,000	22,008	DC0N3	10,968	DC0N3	0,064	BH
8F51	B20X30	2250,000	16,077	DC0N4	30,960	DC0N3	0,054	BH
8F51	B20X30	4350,000	72,763	DC0N4	36,280	DC0N4	0,064	BH
8F52	B20X30	150,000	27,660	DC0N3	30,034	DC0N4	0,141	DC0N2
8F52	B20X30	1750,000	15,638	DC0N2	15,638	DC0N2	0,134	DC0N2
8F52	B20X30	3850,000	62,804	DC0N2	31,834	DC0N2	0,203	DC0N2
8F53	B20X30	150,000	0,000	DC0N1	54,056	DC0N2	0,227	DC0N2
8F53	B20X30	1850,000	35,674	DC0N2	32,574	DC0N2	0,246	DC0N2
8F53	B20X30	3850,000	158,834	DC0N2	67,409	DC0N2	0,368	DC0N1
8F54	B20X30	150,000	72,148	DC0N2	35,923	DC0N2	0,065	BH
8F54	B20X30	2250,000	17,965	DC0N2	39,536	DC0N2	0,065	BH
8F54	B20X30	4350,000	14,864	DC0N3	7,426	DC0N3	0,065	BH
8F55	B20X30	150,000	3,854	DC0N3	45,455	DC0N2	0,182	BH
8F55	B20X30	2250,000	36,693	DC0N2	36,693	DC0N2	0,285	DC0N6
8F55	B20X30	4350,000	148,673	DC0N2	73,697	DC0N2	0,284	DC0N6
8F56	B20X30	150,000	146,081	DC0N2	72,428	DC0N2	0,277	DC0N6
8F56	B20X30	2250,000	36,064	DC0N2	36,064	DC0N2	0,198	DC0N6
8F56	B20X30	4350,000	5,527	DC0N7	41,284	DC0N2	0,178	BH
8F57	B20X30	150,000	14,839	DC0N2	7,243	DC0N3	0,065	BH
8F57	B20X30	2250,000	18,571	DC0N4	36,946	DC0N1	0,065	BH
8F57	B20X30	4350,000	73,954	DC0N2	36,820	DC0N2	0,065	BH
8F58	B20X30	150,000	134,277	DC0N1	61,502	DC0N2	0,336	DC0N1
8F58	B20X30	1750,000	30,735	DC0N2	30,737	DC0N2	0,244	DC0N2
8F58	B20X30	3850,000	0,000	DC0N1	54,969	DC0N2	0,196	DC0N2
8CX10	B25X40	0,000	000,000	DC0N4	251,170	DC0N4	1,178	BH
8CX10	B25X40	2250,000	161,556	DC0N3	311,148	DC0N2	0,804	BH
8CX10	B25X40	4500,000	899,471	DC0N3	430,704	DC0N3	1,310	BH
8CX11	B25X40	0,000	754,079	DC0N3	363,836	DC0N3	1,148	BH
8CX11	B25X40	2500,000	238,599	DC0N3	311,148	DC0N2	0,665	BH
8CX11	B25X40	5000,000	730,276	DC0N4	350,781	DC0N4	1,102	BH
8CX12	B25X40	0,000	322,372	DC0N3	211,818	DC0N3	1,038	BH
8CX12	B25X40	2250,000	236,100	DC0N2	310,185	DC0N2	0,822	BH
8CX12	B25X40	4500,000	875,687	DC0N4	419,843	DC0N4	1,304	BH
8CX13	B25X40	0,000	431,563	DC0N4	281,999	DC0N2	0,988	BH
8CX13	B25X40	2250,000	146,589	DC0N2	311,146	DC0N2	0,558	BH
8CX13	B25X40	4500,000	505,564	DC0N3	296,090	DC0N2	1,037	BH
8CX14	B25X40	0,000	430,558	DC0N3	227,287	DC0N2	0,986	BH
8CX14	B25X40	2250,000	158,498	DC0N2	311,148	DC0N2	0,595	BH
8CX14	B25X40	4500,000	547,291	DC0N4	310,176	DC0N2	1,063	BH
8CX15	B25X40	0,000	0,000	DC0N1	426,255	DC0N2	1,280	DC0N6
8CX15	B25X40	1125,000	138,064	DC0N2	311,148	DC0N2	1,799	DC0N1
8CX15	B25X40	2250,000	460,207	DC0N4	300,417	DC0N4	2,260	DC0N1

BCX16	B25X40	0,000	1100,848	DC0N3	501,285	DC0N3	0,429	DC0N1
BCX15	B25X40	1125,000	311,148	DC0N2	311,148	DC0N2	1,162	DC0N2
BCY16	B25X40	2250,000	0,000	DC0N1	431,457	DC0N2	2,131	DC0N2
BCX17	B25X40	0,000	700,212	DC0N4	309,710	DC0N4	1,060	DC0N10
BCX17	B25X40	2250,000	217,066	DC0N2	174,930	DC0N2	0,656	DC0N10
BCX17	B25X40	4500,000	311,148	DC0N2	175,991	DC0N2	0,812	DC0N10
BCX18	B25X40	0,000	496,945	DC0N3	227,105	DC0N3	1,083	DC0N10
BCX15	B25X40	2250,000	311,148	DC0N2	177,406	DC0N2	0,658	DC0N10
BCX18	B25X40	4500,000	311,148	DC0N2	175,807	DC0N2	0,812	DC0N10
BCY19	B25X40	0,000	1100,910	DC0N4	574,005	DC0N4	1,883	DC0N8
BCY18	B25X40	1125,000	311,148	DC0N2	311,148	DC0N2	1,151	DC0N2
BCY19	B25X40	2250,000	0,000	DC0N1	429,730	DC0N2	2,130	DC0N1
BCX20	B25X40	0,000	0,000	DC0N1	424,545	DC0N2	1,709	DC0N8
BCX20	B25X40	1125,000	137,527	DC0N2	311,148	DC0N2	1,794	DC0N1
BCX20	B25X40	2250,000	458,989	DC0N3	299,806	DC0N3	2,254	DC0N1
BCX21	B25X40	0,000	462,851	DC0N4	218,740	DC0N4	0,980	EM
BCX21	B25X40	2250,000	144,607	DC0N2	311,148	DC0N2	0,562	EM
BCX21	B25X40	4500,000	532,978	DC0N3	292,048	DC0N3	1,340	EM
BCX22	B25X40	0,000	515,714	DC0N4	239,187	DC0N4	1,035	EM
BCX22	B25X40	2250,000	143,244	DC0N2	311,148	DC0N2	0,540	EM
BCX22	B25X40	4500,000	438,975	DC0N3	236,002	DC0N3	0,991	EM
BCX23	B25X40	0,000	535,159	DC0N4	250,095	DC0N4	1,047	EM
BCX23	B25X40	2250,000	293,556	DC0N2	305,186	DC0N2	0,823	EM
BCX23	B25X40	4500,000	670,090	DC0N3	417,283	DC0N3	1,300	EM
BCX24	B25X40	0,000	200,447	DC0N4	321,416	DC0N4	1,156	EM
BCX24	B25X40	2500,000	242,484	DC0N4	211,148	DC0N2	0,578	EM
BCX24	B25X40	5000,000	694,505	DC0N3	336,019	DC0N3	1,087	EM
BCY10	B25X40	750,000	411,687	DC0N4	450,077	DC0N9	1,048	DC0N7
BCY10	B25X40	1625,000	131,697	DC0N5	131,697	DC0N5	1,048	DC0N1
BCY10	B25X40	2500,000	325,867	DC0N5	214,061	DC0N5	1,243	DC0N2
BCY11	B25X40	750,000	470,605	DC0N5	326,303	DC0N10	1,301	DC0N2
BCY11	B25X40	1625,000	151,958	DC0N5	151,958	DC0N5	1,290	DC0N2
BCY11	B25X40	2500,000	613,140	DC0N6	311,148	DC0N5	1,515	DC0N2
BCY12	B25X40	750,000	51,645	DC0N7	90,210	DC0N9	0,981	EM
BCY12	B25X40	1625,000	21,451	DC0N6	44,370	DC0N2	0,161	EM
BCY12	B25X40	2500,000	86,159	DC0N6	42,968	DC0N5	0,275	EM
BCY13	B25X40	0,000	19,449	DC0N6	9,718	DC0N6	0,119	DC0N6
BCY13	B25X40	1562,500	9,949	DC0N5	15,896	DC0N6	0,064	DC0N6
BCY13	B25X40	3525,000	39,873	DC0N5	19,911	DC0N5	0,131	DC0N6
BCY14	B25X40	150,000	81,488	DC0N2	30,640	DC0N2	0,288	EM
BCY14	B25X40	1625,000	21,696	DC0N6	44,465	DC0N2	0,162	EM
BCY14	B25X40	2500,000	87,107	DC0N6	43,429	DC0N6	0,278	EM
BCY15	B25X40	150,000	421,540	DC0N5	342,887	DC0N10	1,310	DC0N2
BCY15	B25X40	1825,000	152,282	DC0N5	152,282	DC0N5	1,316	DC0N2
BCY15	B25X40	2500,000	623,063	DC0N6	311,148	DC0N5	1,541	DC0N2
BCY16	B25X40	150,000	490,001	DC0N5	406,291	DC0N9	1,186	DC0N7
BCY16	B25X40	1625,000	136,160	DC0N5	151,514	DC0N5	0,999	DC0N1
BCY16	B25X40	2500,000	327,491	DC0N5	215,071	DC0N5	1,275	DC0N7
BCY17	B25X40	150,000	317,456	DC0N10	481,860	DC0N5	1,000	DC0N2
BCY17	B25X40	1625,000	139,875	DC0N5	151,650	DC0N2	1,132	DC0N2
BCY17	B25X40	2600,000	309,457	DC0N5	216,402	DC0N5	1,486	DC0N2
BCY18	B25X40	150,000	388,451	DC0N6	336,704	DC0N9	1,157	DC0N7
BCY18	B25X40	1625,000	129,449	DC0N5	129,449	DC0N5	0,950	DC0N1
BCY18	B25X40	2600,000	399,887	DC0N5	334,552	DC0N10	1,150	DC0N2
BCY19	B25X40	125,000	180,309	DC0N5	311,148	DC0N4	1,339	DC0N2
BCY19	B25X40	1250,000	143,168	DC0N4	186,591	DC0N2	1,201	DC0N2
BCY19	B25X40	2375,000	442,512	DC0N4	311,148	DC0N3	1,604	DC0N2
BCY20	B25X40	125,000	348,364	DC0N5	336,510	DC0N5	1,398	DC0N7
BCY20	B25X40	1250,000	112,457	DC0N3	112,457	DC0N3	1,206	DC0N2
BCY20	B25X40	2375,000	159,810	DC0N4	311,148	DC0N3	0,919	DC0N1
BCY21	B25X40	125,000	291,174	DC0N3	195,824	DC0N8	0,677	EM
BCY21	B25X40	2250,000	80,645	DC0N2	194,471	DC0N2	0,414	EM
BCY21	B25X40	4375,000	311,148	DC0N3	167,167	DC0N2	0,677	EM
BCY22	B25X40	125,000	311,148	DC0N3	189,191	DC0N3	0,845	DC0N6
BCY22	B25X40	2250,000	94,005	DC0N3	207,286	DC0N2	0,477	DC0N6
BCY22	B25X40	4375,000	382,001	DC0N4	308,279	DC0N3	0,778	DC0N1
BCY23	B25X40	0,000	104,079	DC0N4	52,011	DC0N4	0,196	DC0N10

3CW08	B25X40	2160,000	15,931	D20N4	25,461	D20N4	0,100	D20N10
3CW09	B25X40	4875,000	35,815	D20N5	84,959	D20N5	0,178	D20N10
3CW04	B25X40	0,000	193,196	D20N3	51,039	D20N3	0,180	D20N10
3CW04	B25X40	2160,000	25,846	D20N3	25,646	D20N3	0,098	D20N10
3CW04	B25X40	4875,000	39,111	D20N4	89,465	D20N4	0,178	D20N10
3CW05	B25X40	135,000	913,146	D40N4	180,205	D70N4	0,494	D60N5
3CW05	B25X40	2745,000	119,195	D20N3	217,901	D20N3	0,497	D20N5
3CW15	B25X40	4875,000	387,497	D20N3	211,149	D20N4	0,708	D20N1
3CW16	B25X40	135,000	285,851	D20N4	157,740	D10N3	0,564	BH
3CW16	B25X40	2750,000	45,005	D20N3	109,617	D20N3	0,405	BH
3CW16	B25X40	4875,000	311,148	D20N3	171,064	D20N3	0,665	BH
3CW17	B25X40	135,000	375,689	D20N4	185,851	D20N3	0,700	BH
3CW17	B25X40	2000,000	145,951	D20N3	164,590	D20N3	0,489	BH
3CW17	B25X40	4875,000	985,701	D20N3	150,877	D20N3	0,493	BH
1EK10	B130X50	0,000	54,964	D20N4	50,804	D20N5	1,210	D20N1
4EK10	B130X50	900,000	710,474	D20N1	180,966	D20N4	3,041	D20N1
4EK10	B130X50	975,000	477,430	D20N1	308,868	D20N4	3,368	D20N1
4EK11	B130X50	0,000	15,017	D20N4	98,147	D20N5	0,899	D20N1
4EK11	B130X50	900,000	521,670	D20N1	148,711	D20N1	2,494	D20N1
4EK11	B130X50	1000,000	474,147	D20N1	300,580	D20N1	2,460	D20N1
4EK12	B130X50	0,000	30,736	D20N4	28,835	D20N5	1,200	D20N1
4EK12	B130X50	900,000	277,051	D20N5	144,958	D20N4	2,474	D20N1
4EK12	B130X50	1000,000	474,147	D20N1	290,964	D20N1	2,444	D20N1
4EK13	B30X50	150,000	660,661	D20N5	474,147	D20N5	1,805	D20N1
4EK13	B30X50	1125,000	120,406	D20N5	144,958	D20N5	1,208	D20N1
4EK13	B30X50	2600,000	461,416	D20N5	355,899	D20N5	1,856	D20N2
4EK14	B30X50	150,000	423,761	D20N5	285,119	D20N5	1,887	D20N1
4EK14	B30X50	1125,000	105,939	D20N5	105,938	D20N5	1,096	D20N1
4EK14	B30X50	2600,000	380,266	D20N5	406,982	D20N5	1,220	D20N1
4EK15	B30X50	150,000	667,062	D20N5	413,669	D20N5	1,509	D20N1
4EK15	B30X50	1125,000	330,474	D20N5	207,917	D20N5	1,239	D20N1
4EK15	B30X50	2750,000	8,899	D10N3	95,825	D20N5	1,002	D20N1
4EK16	B30X50	150,000	1407,660	D20N2	686,797	D20N2	3,110	D20N2
4EK16	B30X50	1875,000	896,214	D20N2	445,537	D20N2	2,747	D20N2
4EK16	B30X50	2750,000	0,000	D20N1	46,694	D20N2	2,463	D20N2
4EK17	B30X50	0,000	0,000	D20N1	26,998	D20N2	1,951	D20N2
4EK17	B30X50	1650,000	474,147	D20N2	364,867	D20N2	2,219	D20N2
4EK17	B30X50	2600,000	1151,573	D20N2	566,814	D20N2	2,576	D20N2
4EK18	B30X50	150,000	474,147	D20N5	196,939	D20N5	1,530	D20N2
4EK18	B30X50	1875,000	148,502	D20N5	148,502	D20N5	1,068	D20N1
4EK18	B30X50	2600,000	606,456	D20N5	479,760	D20N5	1,541	D20N2
4EK19	B30X50	150,000	56,540	D20N2	28,435	D20N2	0,316	D20N6
4EK19	B30X50	1875,000	28,561	D20N5	50,071	D20N5	0,169	D20N6
4EK19	B30X50	2500,000	84,449	D20N5	47,129	D20N5	0,317	D20N6
4EK20	B30X50	0,000	21,427	D20N5	10,709	D20N5	0,057	BH
4EK20	B30X50	1875,000	7,636	D20N5	21,043	D20N5	0,040	BH
4EK20	B30X50	2750,000	31,371	D20N5	25,999	D20N5	0,057	BH
4EK21	B30X50	150,000	56,680	D20N2	28,307	D20N2	0,319	D20N5
4EK21	B30X50	1825,000	24,047	D20N5	48,033	D20N5	0,170	D20N6
4EK21	B30X50	2500,000	96,199	D20N5	45,149	D20N5	0,311	D20N6
4EK22	B30X50	150,000	474,147	D20N5	285,156	D20N5	1,523	D20N2
4EK22	B30X50	1824,000	500,347	D20N5	500,347	D20N5	1,500	D20N2
4EK22	B30X50	2600,000	516,724	D20N5	472,769	D20N5	1,548	D20N2
4EK23	B30X50	0,000	0,000	D20N1	19,228	D20N2	1,914	D20N2
4EK23	B30X50	1260,000	474,147	D20N2	348,540	D20N2	2,198	D20N2
4EK23	B30X50	2500,000	1148,940	D20N2	554,355	D20N2	2,561	D20N2
4EK24	B30X50	150,000	1504,112	D20N2	716,855	D20N2	3,192	D20N2
4EK24	B30X50	1500,000	573,710	D20N2	462,784	D20N2	2,809	D20N2
4EK24	B30X50	2750,000	0,000	D20N1	31,764	D20N2	2,545	D20N2
4EK25	B30X50	150,000	1135,980	D20N2	576,089	D20N2	2,700	D20N2
4EK25	B30X50	1500,000	474,147	D20N2	477,536	D20N2	2,837	D20N2
4EK25	B30X50	2750,000	0,000	D20N1	51,892	D20N2	2,050	D20N2
4EK26	B30X50	150,000	474,147	D20N5	474,147	D20N5	1,364	D20N2
4EK26	B30X50	1425,000	144,842	D20N5	144,842	D20N5	1,086	D20N1
4EK26	B30X50	2600,000	474,147	D20N5	364,405	D20N10	1,465	D20N2
4EK27	B130X50	825,000	367,775	D20N1	182,419	D20N1	3,935	D20N1
4EK27	B130X50	412,500	90,881	D20N1	90,851	D20N1	1,906	D20N1
4EK27	B130X50	1000,000	0,278	BH	301,064	D20N1	3,860	D20N1

4BK08	BT80X40	115,000	347,087	DCON1	193,174	DCON1	1,430	DCON1
4BK04	B180X50	612,500	90,780	DCON1	90,753	DCON1	2,993	DCON1
4BK05	B180X50	1000,000	0,314	EM	300,489	DCON1	3,875	DCON1
4BK04	BT80X50	0,000	8,707	EM	108,744	DCON2	1,180	DCON1
4BK09	B180X50	387,500	92,053	DCON1	91,953	DCON1	1,207	DCON1
4BK09	B180X50	775,000	70,742	DCON3	90,314	DCON3	1,035	DCON1
4BK30	BT80X50	0,000	0,145	EM	103,154	DCON1	1,196	DCON1
4BK30	B180X50	387,500	92,154	DCON1	92,154	DCON1	1,214	DCON1
4BK20	B180X50	775,000	72,240	DCON4	96,961	DCON4	1,241	DCON1
4CK10	B25X40	0,000	370,194	DCON4	248,240	DCON4	1,130	EM
4CK10	B25X40	2250,000	250,055	DCON2	261,319	DCON2	0,966	EM
4CK10	B25X40	4500,000	1039,120	DCON3	490,865	DCON3	1,440	EM
4CK11	B25X40	0,000	305,269	DCON3	241,264	DCON3	1,164	EM
4CK11	B25X40	1600,000	274,095	DCON2	311,148	DCON2	0,425	EM
4CK11	B25X40	5000,000	668,854	DCON4	324,118	DCON4	1,058	EM
4CK12	B25X40	0,000	311,148	DCON2	193,527	DCON2	1,027	EM
4CK12	B25X40	2250,000	254,364	DCON2	287,455	DCON2	0,860	EM
4CK12	B25X40	4500,000	521,122	DCON4	440,566	DCON4	1,365	EM
4CK13	B25X40	0,000	471,908	DCON3	278,636	DCON2	0,936	DCON10
4CK13	B25X40	2250,000	192,151	DCON2	311,148	DCON2	0,505	DCON10
4CK13	B25X40	4500,000	408,669	DCON4	284,181	DCON2	0,907	DCON10
4CK14	B25X40	0,000	474,785	DCON3	264,787	DCON3	1,005	EM
4CK14	B25X40	2250,000	181,207	DCON2	311,148	DCON2	0,550	EM
4CK14	B25X40	4500,000	462,667	DCON4	260,887	DCON2	0,977	EM
4CK15	B25X40	0,000	453,268	DCON3	219,602	DCON3	1,134	EM
4CK15	B25X40	2250,000	172,960	DCON2	311,148	DCON2	0,657	EM
4CK15	B25X40	4500,000	386,351	DCON4	158,096	DCON4	1,012	EM
4CK16	B25X40	0,000	460,904	DCON4	200,984	DCON4	1,135	EM
4CK16	B25X40	2250,000	178,248	DCON2	311,148	DCON2	0,658	EM
4CK16	B25X40	4500,000	398,983	DCON3	251,179	DCON3	1,011	EM
4CK17	B25X40	0,000	483,231	DCON4	171,128	DCON2	1,015	EM
4CK17	B25X40	2250,000	194,874	DCON2	311,148	DCON2	0,598	EM
4CK17	B25X40	4500,000	441,212	DCON3	245,568	DCON2	0,963	EM
4CK18	B25X40	0,000	477,749	DCON4	236,103	DCON2	0,805	DCON10
4CK18	B25X40	2250,000	130,796	DCON2	311,148	DCON2	0,524	DCON10
4CK18	B25X40	4500,000	473,263	DCON3	270,010	DCON2	0,854	DCON10
4CK19	B25X40	0,000	371,998	DCON4	249,817	DCON4	1,062	EM
4CK19	B25X40	2250,000	228,013	DCON2	280,197	DCON2	0,803	EM
4CK19	B25X40	4500,000	838,767	DCON3	400,904	DCON3	1,281	EM
4CK20	B25X40	0,000	394,342	DCON4	240,708	DCON4	1,101	EM
4CK20	B25X40	2500,000	211,442	DCON3	311,148	DCON2	0,623	EM
4CK20	B25X40	5000,000	663,885	DCON3	321,791	DCON2	1,056	EM
5BK10	B30X50	150,000	474,147	DCON5	245,782	DCON5	1,895	DCON2
5BK10	B30X50	1225,000	122,238	DCON5	132,228	DCON5	1,096	DCON1
5BK10	B30X50	2500,000	474,147	DCON6	261,008	DCON5	1,303	DCON2
5BK11	B30X50	150,000	1130,866	DCON2	545,775	DCON2	2,535	DCON2
5BK11	B30X50	1500,000	474,147	DCON2	357,988	DCON2	2,162	DCON2
5BK11	B30X50	2850,000	0,000	DCON1	49,694	DCON2	1,878	DCON2
5BK12	B30X50	150,000	1498,882	DCON2	714,960	DCON2	3,180	DCON2
5BK12	B30X50	1500,000	569,142	DCON2	456,194	DCON2	2,817	DCON2
5BK12	B30X50	2750,000	0,000	DCON1	33,256	DCON2	2,533	DCON2
5BK13	B30X50	150,000	1174,893	DCON2	560,420	DCON2	2,605	DCON2
5BK13	B30X50	1500,000	474,147	DCON2	372,601	DCON2	2,302	DCON2
5BK13	B30X50	2750,000	0,000	DCON1	49,368	DCON2	2,018	DCON2
5BK14	B30X50	150,000	474,821	DCON5	420,175	DCON5	1,918	DCON2
5BK14	B30X50	1425,000	103,615	DCON5	103,615	DCON5	1,154	DCON1
5BK14	B30X50	2600,000	406,481	DCON5	301,443	DCON5	1,331	DCON2
5BK15	BT80X50	0,000	0,069	EM	294,701	DCON4	4,142	DCON1
5BK15	BT80X50	387,500	120,687	DCON5	111,410	DCON5	4,219	DCON1
5BK15	B180X50	775,000	452,266	DCON5	223,903	DCON5	4,247	DCON1
5BK16	BT80X50	0,000	0,060	EM	293,898	DCON5	4,177	DCON1
5BK16	B180X50	387,500	119,917	DCON5	111,086	DCON5	4,204	DCON1
5BK16	B180X50	775,000	450,981	DCON5	223,273	DCON5	4,232	DCON1
5BK17	BT80X50	0,000	92,703	DCON5	210,684	DCON5	1,710	DCON1
5BK17	S100X50	387,500	52,314	DCON5	52,314	DCON5	1,738	DCON1
5BK17	B180X50	775,000	138,647	DCON5	66,634	DCON5	1,765	DCON1
5BK18	BT80X50	0,000	91,795	DCON5	210,326	DCON4	1,739	DCON1
5BK18	B180X50	387,500	52,980	DCON5	52,980	DCON5	1,766	DCON1
5BK18	B180X50	775,000	135,282	DCON4	67,444	DCON4	1,794	DCON1

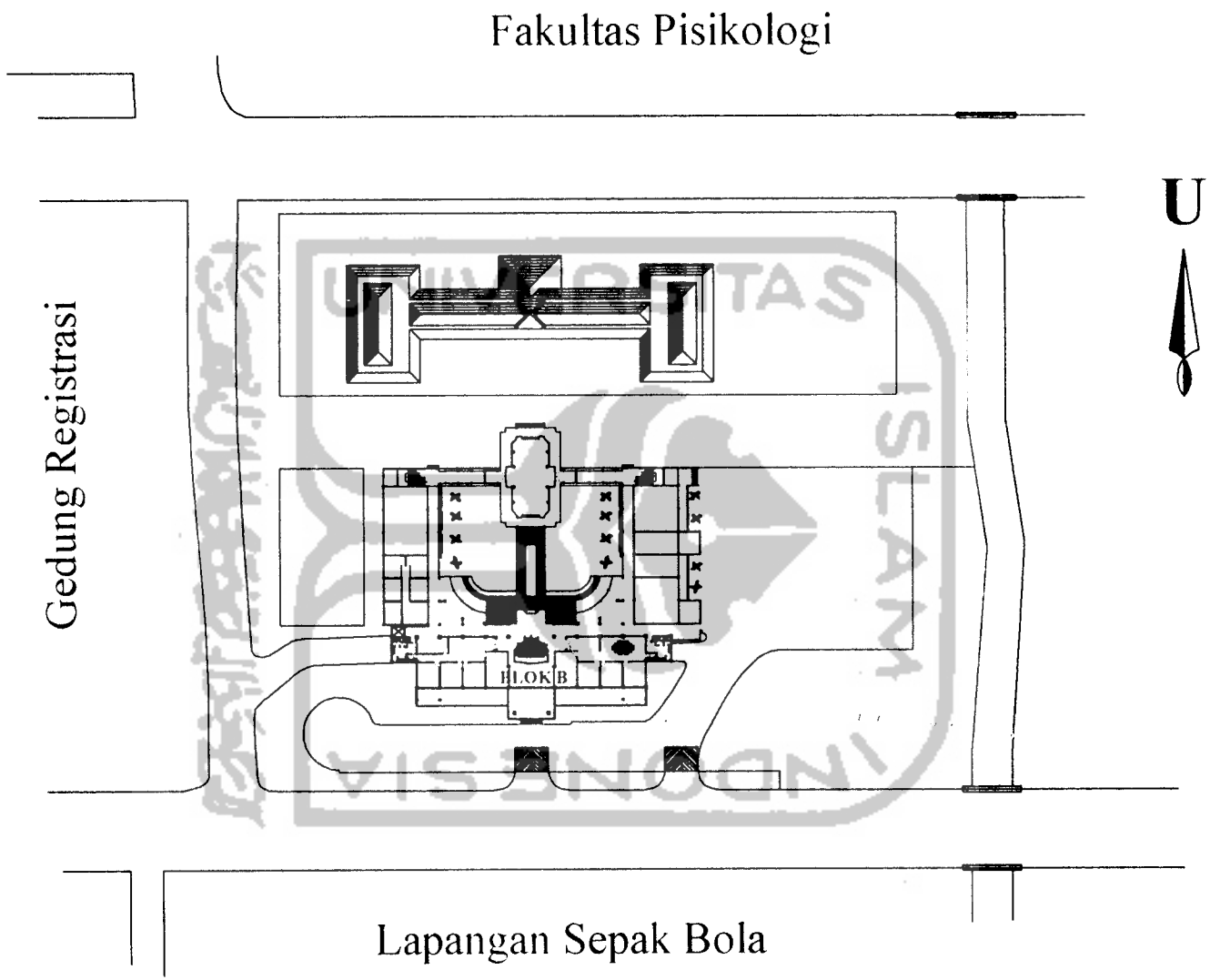
6BK10	B30X50	0,000	10,055	D00N4	84,794	D00N3	1,209	D00N1
6BK10	B30X50	387,500	88,563	D00N4	18,810	D00N4	1,036	D00N1
6BK10	B30X50	775,000	173,011	D00N4	86,193	D00N4	1,069	D00N1
6BK11	B30X50	0,000	105,181	D00N4	90,470	D00N4	0,507	D00N1
6BK11	B30X50	500,000	54,290	D00N1	36,106	D00N4	0,491	D00N1
6BK11	B30X50	1000,000	12,062	D00N2	11,026	D00N1	0,456	D00N1
6BK12	B30X50	0,000	106,806	D00N5	74,007	D00N5	0,664	D00N1
6BK12	B30X50	500,000	61,949	D00N5	26,982	D00N5	0,539	D00N1
6BK12	B30X50	1000,000	26,971	D00N3	12,579	D00N3	0,451	D00N1
6BK13	B30X50	781,000	254,806	D00N4	178,005	D00N5	0,944	D00N1
6BK13	B30X50	1406,000	48,844	D00N5	110,596	D00N1	0,617	D00N1
6BK13	B30X50	2500,000	196,405	D00N5	97,291	D00N5	0,894	D00N1
6BK14	B30X50	150,000	169,007	D00N5	64,356	D00N5	0,861	D00N1
6BK14	B30X50	1875,000	44,142	D00N5	143,642	D00N1	0,507	D00N1
6BK14	B30X50	3600,000	90,109	D00N6	177,090	D00N5	0,701	D00N1
6BK15	B30X50	150,000	661,130	D00N2	430,177	D00N2	1,509	D00N1
6BK15	B30X50	1500,000	238,151	D00N1	514,830	D00N2	1,230	D00N1
6BK15	B30X50	2750,000	0,000	D00N1	39,826	D00N1	1,004	D00N1
6BK16	B30X50	150,000	1358,348	D00N2	650,584	D00N2	2,871	D00N2
6BK16	B30X50	1800,000	500,038	D00N2	425,370	D00N2	2,608	D00N2
6BK16	B30X50	2750,000	0,000	D00N1	49,520	D00N2	2,334	D00N2
6BK17	B30X50	150,000	1182,845	D00N2	569,830	D00N2	2,603	D00N2
6BK17	B30X50	1500,000	474,147	D00N2	373,509	D00N2	2,260	D00N2
6BK17	B30X50	2750,000	0,000	D00N1	23,254	D00N2	1,976	D00N2
6BK18	B30X50	150,000	330,997	D00N5	164,310	D00N5	0,997	D00N2
6BK18	B30X50	1325,000	174,608	D00N2	107,790	D00N2	0,955	D00N2
6BK18	B30X50	2500,000	437,360	D00N2	216,592	D00N2	1,268	D00N2
6BK19	B30X50	150,000	77,896	D00N2	48,911	D00N2	0,237	PM
6BK19	B30X50	1325,000	15,428	D00N2	28,413	D00N2	0,122	PM
6BK19	B30X50	2500,000	61,821	D00N2	30,870	D00N2	0,240	PM
6BK20	B30X50	0,000	78,672	D00N1	11,134	D00N1	0,047	PM
6BK20	B30X50	1375,000	6,862	D00N1	20,336	D00N2	0,047	PM
6BK20	B30X50	2750,000	35,731	D00N1	12,859	D00N1	0,047	PM
6BK21	B30X50	150,000	57,891	D00N2	28,910	D00N2	0,235	PM
6BK21	B30X50	1325,000	15,509	D00N2	28,247	D00N2	0,123	PM
6BK21	B30X50	2500,000	62,158	D00N2	31,008	D00N2	0,240	PM
6BK22	B30X50	150,000	840,573	D00N5	169,008	D00N5	0,986	D00N2
6BK22	B30X50	1325,000	117,933	D00N1	77,630	D00N2	0,782	D00N2
6BK22	B30X50	2500,000	313,597	D00N2	155,782	D00N2	1,116	D00N2
6BK23	B30X50	150,000	1182,445	D00N2	544,843	D00N2	2,521	D00N2
6BK23	B30X50	1500,000	474,147	D00N2	357,407	D00N2	2,158	D00N2
6BK23	B30X50	2750,000	0,000	D00N1	18,780	D00N2	1,874	D00N2
6BK24	B30X50	150,000	1498,800	D00N2	706,678	D00N2	3,164	D00N2
6BK24	B30X50	1500,000	592,668	D00N2	468,508	D00N2	2,796	D00N2
6BK24	B30X50	2750,000	0,000	D00N1	36,486	D00N2	2,512	D00N2
6BK25	B30X50	150,000	1141,474	D00N2	550,169	D00N2	2,436	D00N2
6BK25	B30X50	1500,000	474,147	D00N2	367,286	D00N2	2,273	D00N2
6BK25	B30X50	2750,000	0,000	D00N1	50,018	D00N2	1,989	D00N2
6BK26	B30X50	150,000	194,995	D00N4	914,880	D00N5	0,764	D00N2
6BK26	B30X50	1425,000	60,161	D00N5	60,161	D00N5	0,706	D00N1
6BK26	B30X50	2600,000	242,620	D00N5	120,674	D00N5	0,970	D00N2
6CY10	B25X40	0,000	180,851	D00N5	89,886	D00N5	0,800	PM
6CY10	B25X40	2387,500	109,896	D00N6	220,284	D00N5	0,277	PM
6CY10	B25X40	4775,000	337,207	D00N6	221,412	D00N6	0,277	PM
6CY11	B25X40	0,000	145,272	D00N5	91,082	D00N5	0,279	PM
6CY11	B25X40	2387,500	110,268	D00N6	220,584	D00N5	0,279	PM
6CY11	B25X40	4775,000	338,440	D00N6	222,209	D00N6	0,279	PM
6CY12	B25X40	0,000	202,405	D00N6	914,440	D00N5	0,469	D00N1
6CY12	B25X40	2375,000	81,801	D00N5	81,801	D00N5	0,373	D00N2
6CY12	B25X40	4750,000	311,148	D00N5	164,493	D00N5	0,507	D00N1
6CY13	B25X40	0,000	396,054	D00N4	914,201	D00N4	0,703	D00N1
6CY13	B25X40	375,000	523,959	D00N4	232,372	D00N4	0,735	D00N1
6CY13	B25X40	750,000	738,284	D00N4	364,180	D00N4	0,748	D00N1
6CY14	B25X40	0,000	265,844	D00N5	184,893	D00N5	0,549	PM
6CY14	B25X40	3500,000	118,994	D00N5	371,942	D00N1	0,259	PM
6CY14	B25X40	7000,000	366,212	D00N4	240,180	D00N4	0,259	PM
6CY15	B25X40	150,000	728,066	D00N3	354,079	D00N3	0,748	D00N1
6CY15	B25X40	625,000	513,733	D00N3	232,305	D00N3	0,725	D00N1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7CY10	B25X40	250,000	183,097	DC0N6	133,028	DC0N6	0,477	DC0N1
7CY10	B25X40	3075,000	74,180	DC0N6	74,180	DC0N6	0,480	DC0N1
7CY10	B25X40	4000,000	301,146	DC0N4	148,070	DC0N4	0,595	DC0N1
7CY11	B25X40	0,000	27,507	DC0N5	18,777	DC0N5	0,038	EH
7CY11	B25X40	0125,000	3,478	DC0N5	71,096	DC0N5	0,008	EH
7CY11	B25X40	4250,000	37,994	DC0N6	16,948	DC0N6	0,036	EH
7CY12	B25X40	250,000	197,459	DC0N5	133,178	DC0N6	0,468	DC0N1
7CY12	B25X40	1075,000	74,107	DC0N5	74,107	DC0N5	0,474	DC0N1
7CY12	B25X40	4000,000	306,946	DC0N6	178,196	DC0N5	0,580	DC0N1
7CY13	B25X40	0,000	0,000	DC0N1	400,966	DC0N1	0,348	DC0N10
7CY13	B25X40	0975,000	136,776	DC0N1	136,776	DC0N1	0,457	DC0N10
7CY13	B25X40	4750,000	445,140	DC0N6	160,156	DC0N7	0,543	DC0N10
7CY14	B25X40	0,000	0,000	DC0N1	396,130	DC0N2	0,351	DC0N10
7CY14	B25X40	2875,000	129,841	DC0N1	129,841	DC0N1	0,443	DC0N10
7CY14	B25X40	4250,000	430,395	DC0N6	161,348	DC0N7	0,535	DC0N10
7CY15	B25X40	250,000	314,103	DC0N4	206,620	DC0N4	0,728	DC0N1
7CY15	B25X40	2875,000	101,559	DC0N4	148,575	DC0N3	0,595	DC0N1
7CY15	B25X40	4500,000	0,144	EH	253,715	DC0N1	0,447	DC0N1
7CY16	B25X40	250,000	315,885	DC0N3	207,817	DC0N3	0,725	DC0N1
7CY16	B25X40	2875,000	103,097	DC0N3	148,344	DC0N4	0,597	DC0N1
7CY16	B25X40	4500,000	0,144	EH	253,840	DC0N1	0,470	DC0N1
7CY17	B25X40	125,000	280,420	DC0N4	124,171	DC0N4	0,440	EH
7CY17	B25X40	1362,500	100,910	DC0N1	196,080	DC0N3	0,440	EH
7CY17	B25X40	2500,000	14,107	EH	311,148	DC0N1	0,440	EH
7CY18	B25X40	0,000	8,819	EH	321,376	DC0N1	0,854	DC0N10
7CY18	B25X40	1137,500	143,038	DC0N2	143,038	DC0N2	0,998	DC0N10
7CY18	B25X40	2375,000	447,307	DC0N1	288,845	DC0N2	1,167	DC0N10
7CY19	B25X40	0,000	0,000	DC0N1	130,111	DC0N2	0,574	EH
7CY19	B25X40	2137,500	183,717	DC0N2	183,717	DC0N2	0,899	EH
7CY19	B25X40	4375,000	573,692	DC0N2	311,148	DC0N2	0,960	EH
7CY20	B25X40	0,000	0,000	DC0N1	170,280	DC0N2	0,570	EH
7CY20	B25X40	2137,500	179,647	DC0N2	179,647	DC0N2	0,686	EH
7CY20	B25X40	4375,000	559,820	DC0N2	311,148	DC0N2	0,940	EH
7CY21	B25X40	0,000	9,659	EH	319,489	DC0N1	0,859	DC0N10
7CY21	B25X40	1137,500	143,947	DC0N1	143,947	DC0N2	1,003	DC0N10
7CY21	B25X40	2375,000	450,446	DC0N1	290,700	DC0N2	1,172	DC0N10
7CY22	B25X40	125,000	284,038	DC0N3	116,113	DC0N3	0,442	EH
7CY22	B25X40	1362,500	99,951	DC0N1	199,595	DC0N4	0,442	EH
7CY22	B25X40	2500,000	15,076	EH	311,148	DC0N1	0,447	EH
7CY23	B25X40	0,000	8,855	EH	311,148	DC0N1	1,067	DC0N1
7CY23	B25X40	1125,000	97,676	DC0N1	140,634	DC0N5	1,307	DC0N1
7CY23	B25X40	2250,000	311,148	DC0N6	177,408	DC0N6	1,570	DC0N1
7CY24	B25X40	0,000	0,000	DC0N1	311,148	DC0N1	0,527	DC0N6
7CY24	B25X40	1250,000	96,701	DC0N1	311,148	DC0N1	0,710	DC0N6
7CY24	B25X40	2500,000	90,806	DC0N6	49,302	DC0N6	0,951	DC0N6
7CY25	B25X40	0,000	0,000	DC0N1	049,597	DC0N2	0,290	DC0N2
7CY25	B25X40	1125,000	239,982	DC0N2	311,148	DC0N2	0,586	DC0N2
7CY25	B25X40	2250,000	506,883	DC0N6	282,369	DC0N2	0,968	DC0N2
7CY26	B25X40	1250,000	192,717	DC0N2	420,341	DC0N2	0,346	DC0N6
7CY26	B25X40	2500,000	0,000	DC0N1	409,062	DC0N2	0,325	DC0N6
7CY27	B25X40	0,000	0,000	DC0N1	311,148	DC0N7	0,500	DC0N6
7CY27	B25X40	1250,000	134,521	DC0N2	413,737	DC0N2	0,854	DC0N6
7CY27	B25X40	2500,000	0,000	DC0N1	414,991	DC0N2	0,313	DC0N6
7CY28	B25X40	0,000	0,000	DC0N1	751,966	DC0N2	2,000	DC0N2
7CY28	B25X40	1125,000	297,967	DC0N2	311,148	DC0N2	3,499	DC0N2
7CY29	B25X40	0,000	0,000	DC0N1	311,148	DC0N1	0,540	DC0N6
7CY29	B25X40	1250,000	84,811	DC0N1	303,351	DC0N1	0,702	DC0N6
7CY29	B25X40	2500,000	100,598	DC0N6	80,133	DC0N6	0,940	DC0N6
7CY30	B25X40	0,000	9,461	EH	320,935	DC0N1	1,110	DC0N1
7CY30	B25X40	1125,000	104,706	DC0N1	167,469	DC0N5	1,330	DC0N1
7CY30	B25X40	2250,000	311,148	DC0N6	170,366	DC0N6	1,598	DC0N1
7CY31	B25X40	0,000	29,197	EH	196,949	DC0N1	0,460	EH
7CY31	B25X40	1250,000	46,312	DC0N1	313,906	DC0N1	0,474	EH
7CY31	B25X40	2500,000	98,015	DC0N4	48,850	DC0N4	0,709	EH
7CY32	B25X40	0,000	375,801	DC0N2	046,306	DC0N2	1,272	DC0N2
7CY32	B25X40	1250,000	122,149	DC0N2	122,149	DC0N2	0,997	DC0N2
7CY32	B25X40	2500,000	32,239	EH	165,045	DC0N1	0,701	DC0N2

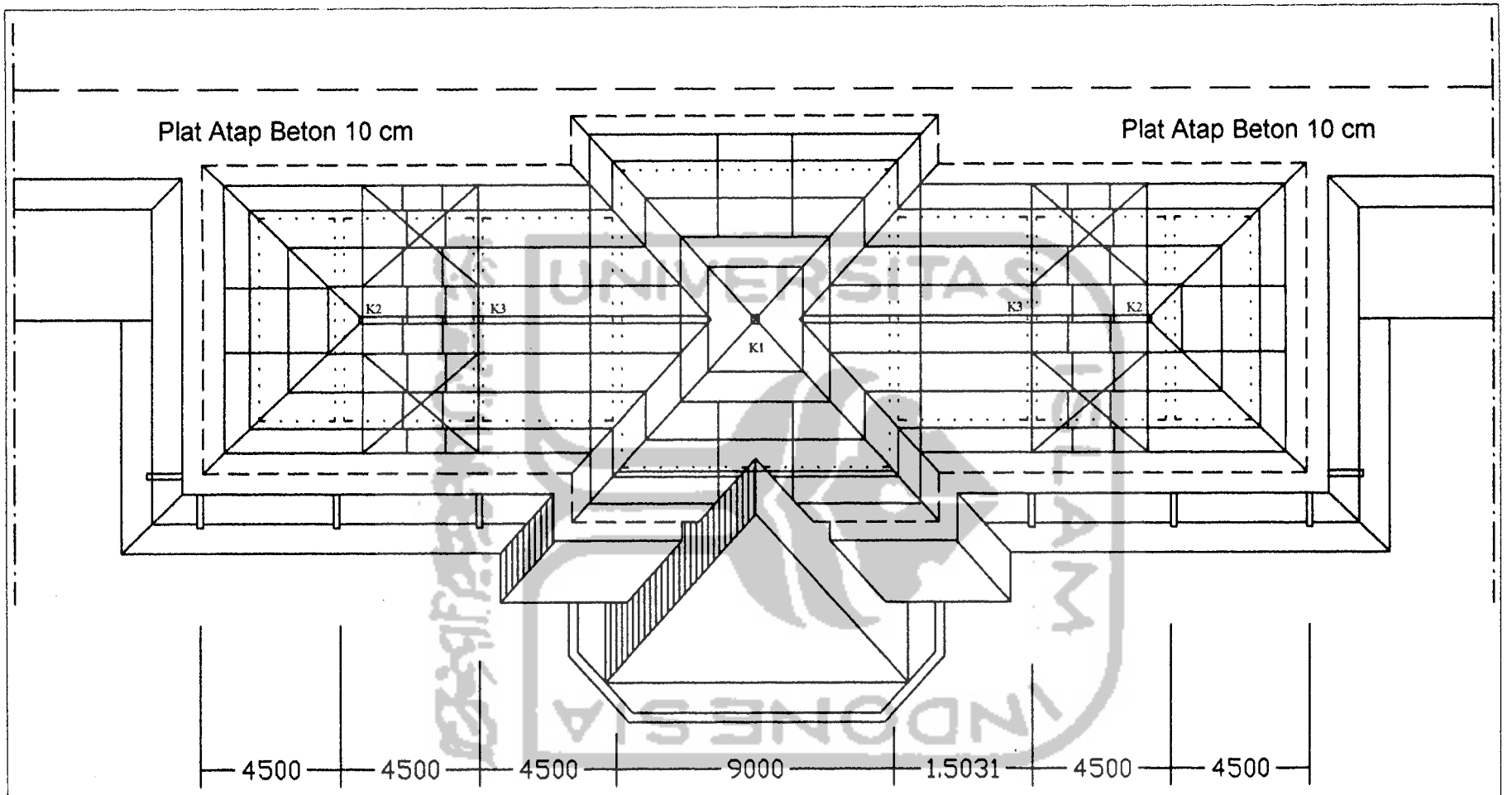
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7CY30	B25X40	2250,000	148,875	DC0N1	311,148	DC0N1	0,363	EH
7CY33	B25X40	4500,000	441,215	DC0N2	298,821	DC0N2	0,949	BH
7CY34	B25X40	0,000	137,148	DC0N2	89,168	DC0N2	0,600	BH
7CY34	B25X40	1150,000	146,400	DC0N2	311,148	DC0N2	0,370	BH
7CY34	B25X40	4900,000	452,926	DC0N2	295,706	DC0N2	0,595	BH
7CY35	B25X40	0,000	610,579	DC0N2	268,500	DC0N2	1,800	DC0N1
7CY35	B25X40	1150,000	130,610	DC0N2	130,610	DC0N2	1,280	DC0N1
7CY35	B25X40	2500,000	51,151	BH	262,778	DC0N1	0,674	DC0N1
7CY36	B25X40	0,000	78,691	BH	299,548	DC0N1	0,601	DC0N2
7CY36	B25X40	1150,000	73,902	DC0N1	157,821	DC0N1	0,704	DC0N2
7CY36	B25X40	2500,000	119,497	DC0N3	58,514	DC0N3	0,979	DC0N2
7CY37	B25X40	650,000	311,146	DC0N5	178,704	DC0N5	1,558	DC0N1
7CY37	B25X40	1375,000	92,364	DC0N1	197,428	DC0N6	1,196	DC0N1
7CY37	B25X40	2500,000	8,082	BH	311,146	DC0N1	1,075	DC0N1
7CY38	B25X40	150,000	364,690	DC0N5	150,802	DC0N5	1,574	DC0N1
7CY38	B25X40	1325,000	106,280	DC0N1	215,044	DC0N1	1,202	DC0N1
7CY38	B25X40	2500,000	8,789	BH	215,457	DC0N1	0,943	DC0N1
7CY39	B25X40	0,000	0,000	DC0N1	472,851	DC0N2	2,748	DC0N2
7CY39	B25X40	1325,000	244,205	DC0N1	244,205	DC0N2	3,044	DC0N2
7CY39	B25X40	2250,000	772,864	DC0N2	278,639	DC0N2	8,421	DC0N2
7CY40	B25X40	650,000	1046,975	DC0N2	492,866	DC0N2	5,440	DC0N2
7CY40	B25X40	1375,000	311,148	DC0N2	311,148	DC0N2	0,841	EH
7CY40	B25X40	2500,000	0,000	DC0N1	334,248	DC0N2	0,812	EH
7CY41	B25X40	650,000	1086,348	DC0N2	514,906	DC0N2	1,030	DC0N2
7CY41	B25X40	1375,000	315,802	DC0N5	311,148	DC0N2	0,864	EH
7CY41	B25X40	2500,000	0,000	DC0N1	316,791	DC0N2	0,836	EH
7CY42	B25X40	0,000	0,000	DC0N1	701,892	DC0N2	5,026	DC0N2
7CY42	B25X40	1125,000	287,863	DC0N2	287,863	DC0N2	3,372	DC0N2
7CY42	B25X40	2250,000	821,136	DC0N2	440,563	DC0N2	8,749	DC0N2
7CY43	B25X40	0,000	189,548	DC0N5	84,301	DC0N5	1,129	DC0N2
7CY43	B25X40	1250,000	84,915	DC0N1	256,285	DC0N1	0,848	DC0N2
7CY43	B25X40	2500,000	5,436	BH	311,148	DC0N1	0,601	DC0N2
7CY44	B25X40	650,000	911,607	DC0N5	704,800	DC0N5	1,648	DC0N1
7CY44	B25X40	1375,000	101,797	DC0N5	132,598	DC0N6	1,380	DC0N1
7CY44	B25X40	2500,000	8,222	BH	321,853	DC0N1	1,159	DC0N1
7CY45	B25X40	125,000	79,814	DC0N5	93,803	DC0N6	0,619	DC0N1
7CY45	B25X40	1200,000	67,015	DC0N4	91,813	DC0N3	0,655	DC0N2
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7CY46	B25X40	125,000	745,056	DC0N5	121,534	DC0N3	0,793	DC0N1
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7CY47	B25X40	125,000	290,852	DC0N3	201,891	DC0N3	0,611	BH
7CY47	B25X40	2250,000	113,406	DC0N4	160,568	DC0N2	0,458	EH
7CY47	B25X40	4275,000	348,241	DC0N4	228,539	DC0N4	0,706	EH
7CY48	B25X40	225,000	311,148	DC0N4	134,599	DC0N3	0,695	DC0N6
7CY48	B25X40	2250,000	109,284	DC0N3	167,988	DC0N1	0,409	DC0N6
7CY48	B25X40	4275,000	316,468	DC0N3	209,946	DC0N3	0,775	DC0N6
7CY49	B25X40	225,000	316,938	DC0N4	209,245	DC0N4	0,441	BH
7CY49	B25X40	1062,500	103,431	DC0N4	189,171	DC0N3	0,441	EH
7CY49	B25X40	2500,000	1,275	BH	324,486	DC0N1	0,441	EH
7CY50	B25X40	0,000	1,999	BH	335,636	DC0N1	0,748	DC0N10
7CY50	B25X40	1137,500	194,333	DC0N3	134,333	DC0N3	0,918	DC0N10
7CY50	B25X40	2275,000	414,094	DC0N3	271,105	DC0N3	1,082	DC0N10
8CY10	B25X40	150,000	207,268	DC0N2	107,918	DC0N2	0,315	DC0N4
8CY10	B25X40	3500,000	51,286	DC0N2	51,286	DC0N2	0,164	DC0N5
8CY10	B25X40	6850,000	168,799	DC0N2	93,907	DC0N2	0,302	DC0N5
8CY11	B25X40	150,000	140,221	DC0N5	69,782	DC0N5	0,094	BH
8CY11	B25X40	3500,000	34,814	DC0N5	132,350	DC0N1	0,094	EH
8CY11	B25X40	6850,000	112,903	DC0N6	56,242	DC0N6	0,094	EH
8CY12	B25X40	150,000	119,268	DC0N5	59,401	DC0N5	0,066	BH
8CY12	B25X40	3500,000	29,643	DC0N5	127,890	DC0N1	0,085	EH
8CY12	B25X40	6850,000	119,409	DC0N6	59,480	DC0N6	0,085	EH
8CY13	B25X40	150,000	147,951	DC0N2	99,314	DC0N2	0,301	BH
8CY13	B25X40	3500,000	48,999	DC0N2	59,498	DC0N5	0,167	EH
8CY13	B25X40	6850,000	148,376	DC0N2	73,827	DC0N2	0,280	EH
8CY14	B25X40	150,000	207,980	DC0N2	113,130	DC0N2	0,150	BH

8CY14	B25X40	3500,000	56,966	D00N2	64,480	D00M1	0,160	EH
8CY14	B25X40	6850,000	118,241	D00N2	88,931	D00N6	0,150	EH
8CY15	B25X40	0,000	0,000	D00N1	134,710	D00M2	0,264	D00M1
8CY15	B25X40	7300,000	42,209	D00N2	179,845	D00M2	0,164	D00M2
8CY15	B25X40	2400,000	0,000	D00N1	174,534	D00N2	0,110	D00N1
8CY16	B25X40	150,000	286,157	D00N1	141,714	D00M2	0,469	EH
8CY16	B25X40	1295,000	70,530	D00M2	90,535	D00N2	0,463	EH
8CY16	B25X40	0800,000	0,000	D00N1	140,501	D00N2	0,807	EH
8CY17	B25X40	150,000	611,146	D00N2	155,357	D00M2	0,469	EH
8CY17	B25X40	1295,000	72,241	D00N2	97,791	D00N2	0,463	EH
8CY17	B25X40	0800,000	0,000	D00N1	144,716	D00N2	0,807	EH
8CY18	B25X40	150,000	144,971	D00N2	75,347	D00M1	1,790	D00M1
8CY18	B25X40	500,000	82,892	D00N2	87,809	D00N1	1,251	D00N2
8CY18	B25X40	842,999	0,000	D00N1	111,946	D00N2	1,732	D00N2
8CY19	B25X40	150,000	965,821	D00N2	211,146	D00M2	0,472	EH
8CY19	B25X40	1450,000	101,491	D00N2	131,491	D00N2	0,473	EH
8CY19	B25X40	3145,598	0,000	D00N1	410,836	D00N2	0,473	EH
8CY20	B25X40	0,000	0,000	D00N1	410,566	D00M2	0,871	D00N1
8CY20	B25X40	1450,000	126,598	D00N2	455,966	D00N2	0,260	D00N1
8CY20	B25X40	2700,000	0,000	D00N1	421,833	D00N2	0,949	D00N1
8CY21	B25X40	0,000	0,000	D00N1	411,389	D00M2	0,470	EH
8CY21	B25X40	1500,000	178,907	D00N2	178,907	D00N2	0,470	EH
8CY21	B25X40	2998,999	560,714	D00N2	611,148	D00N2	0,470	EH
8CY22	B25X40	150,000	0,000	D00N1	73,757	D00N1	1,251	D00N2
8CY22	B25X40	500,000	90,746	D00N2	91,736	D00N2	1,309	D00N2
8CY22	B25X40	842,999	122,735	D00N2	81,616	D00N2	1,327	D00N2

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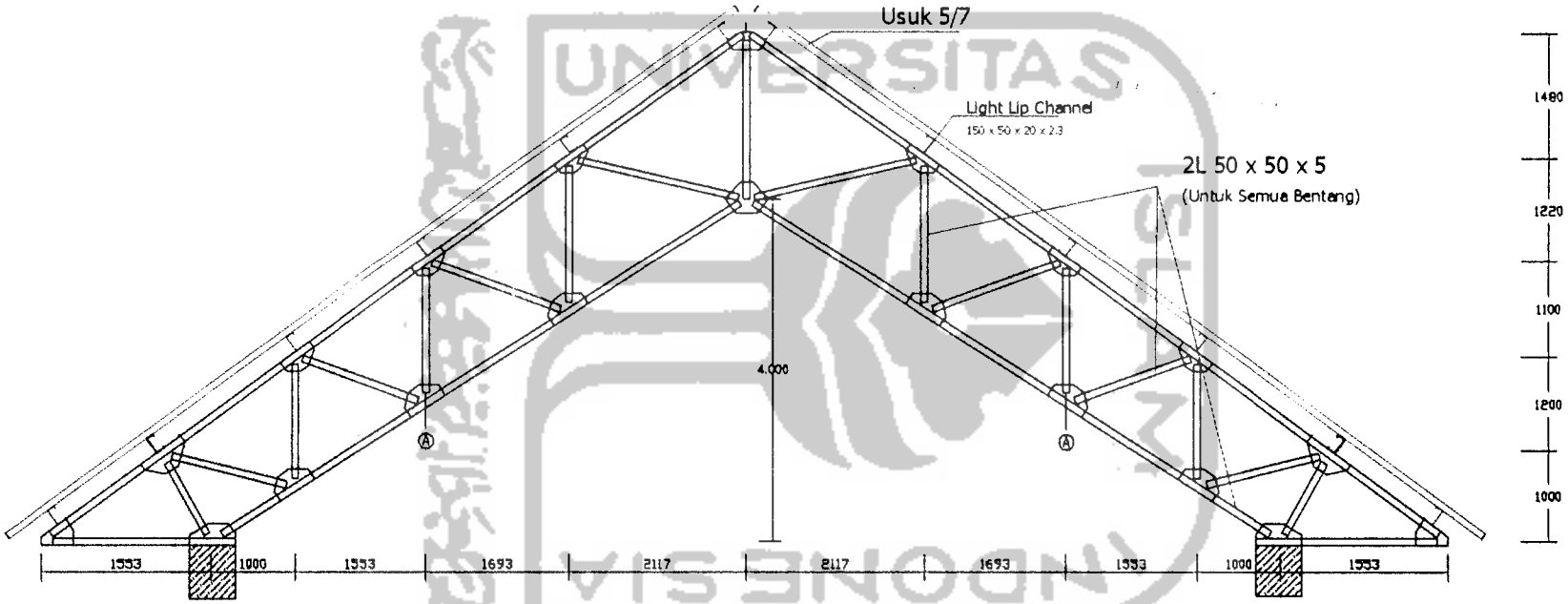


PETA SITUASI PROYEK D3 EKONAMI UII

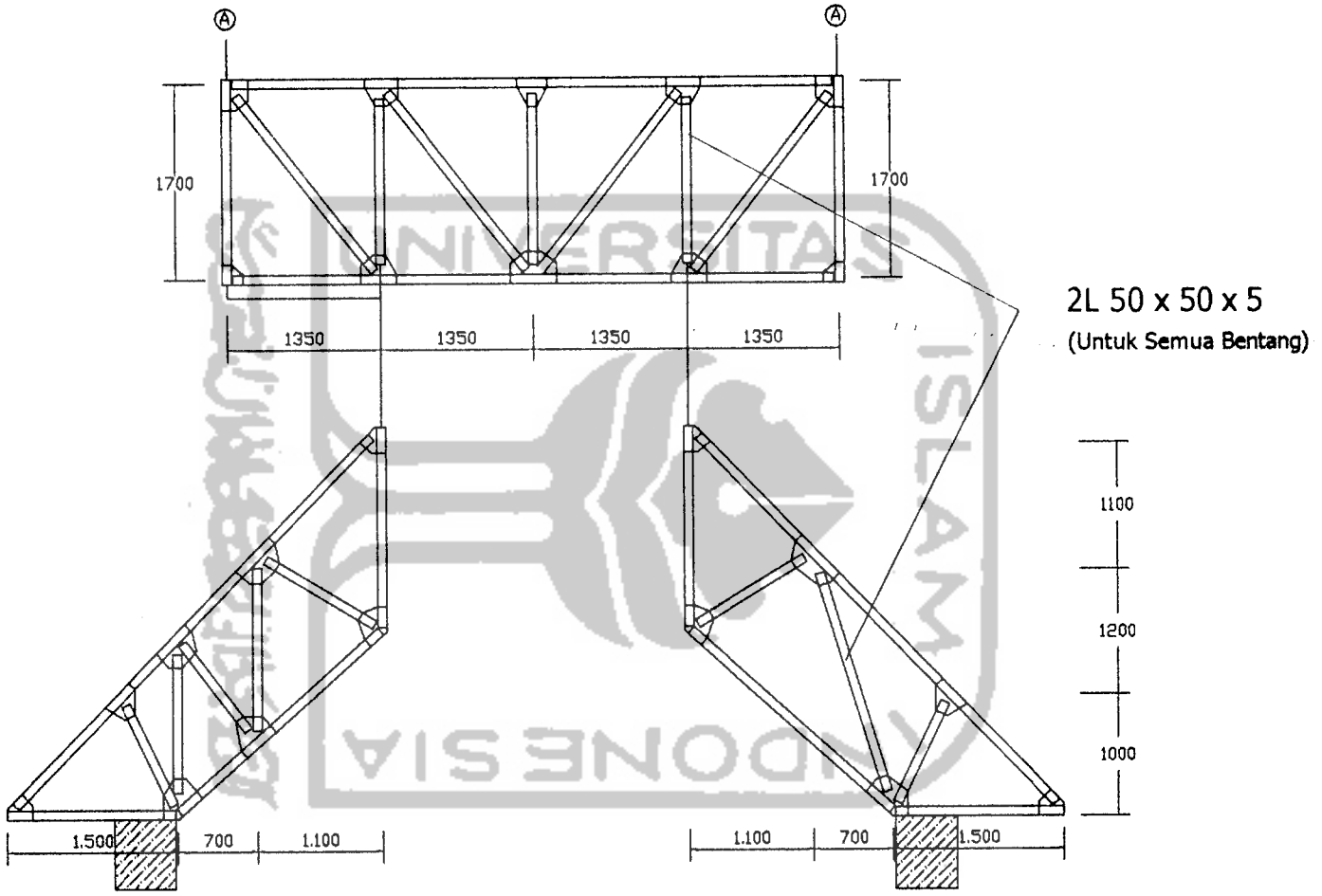


Rencana Atap Blok B

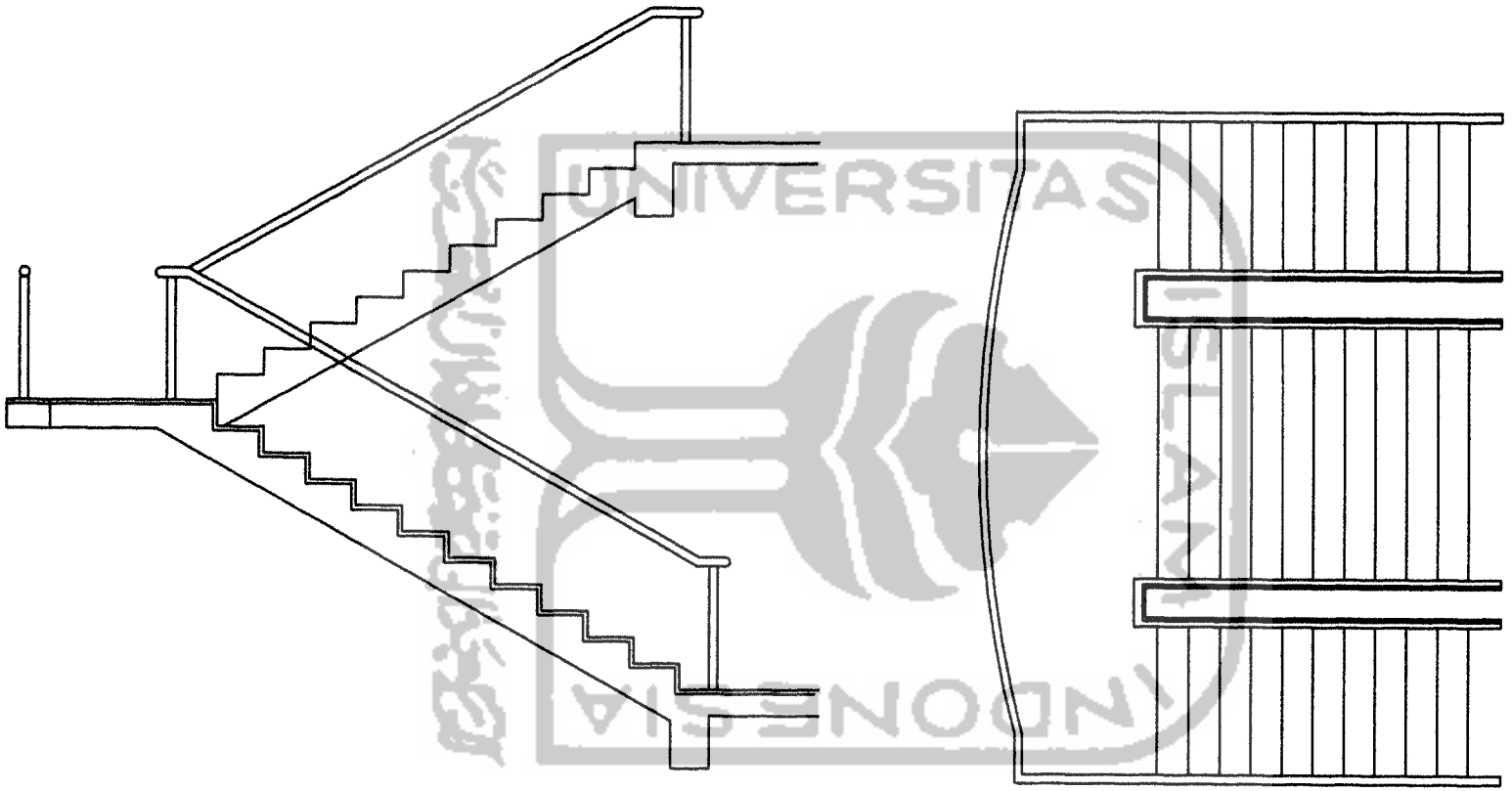
Skala 1 : 200



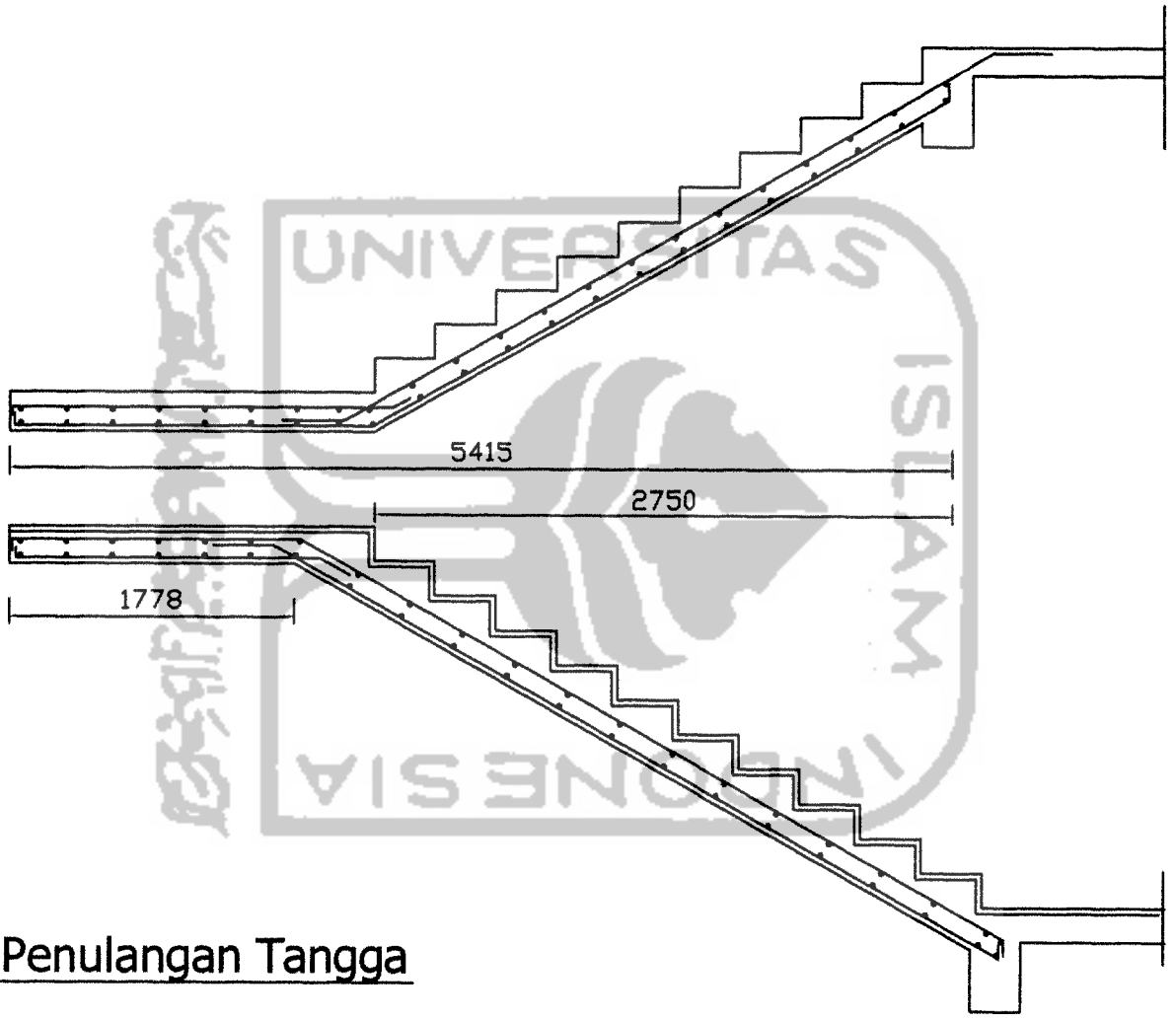
Kuda-kuda I (KI)



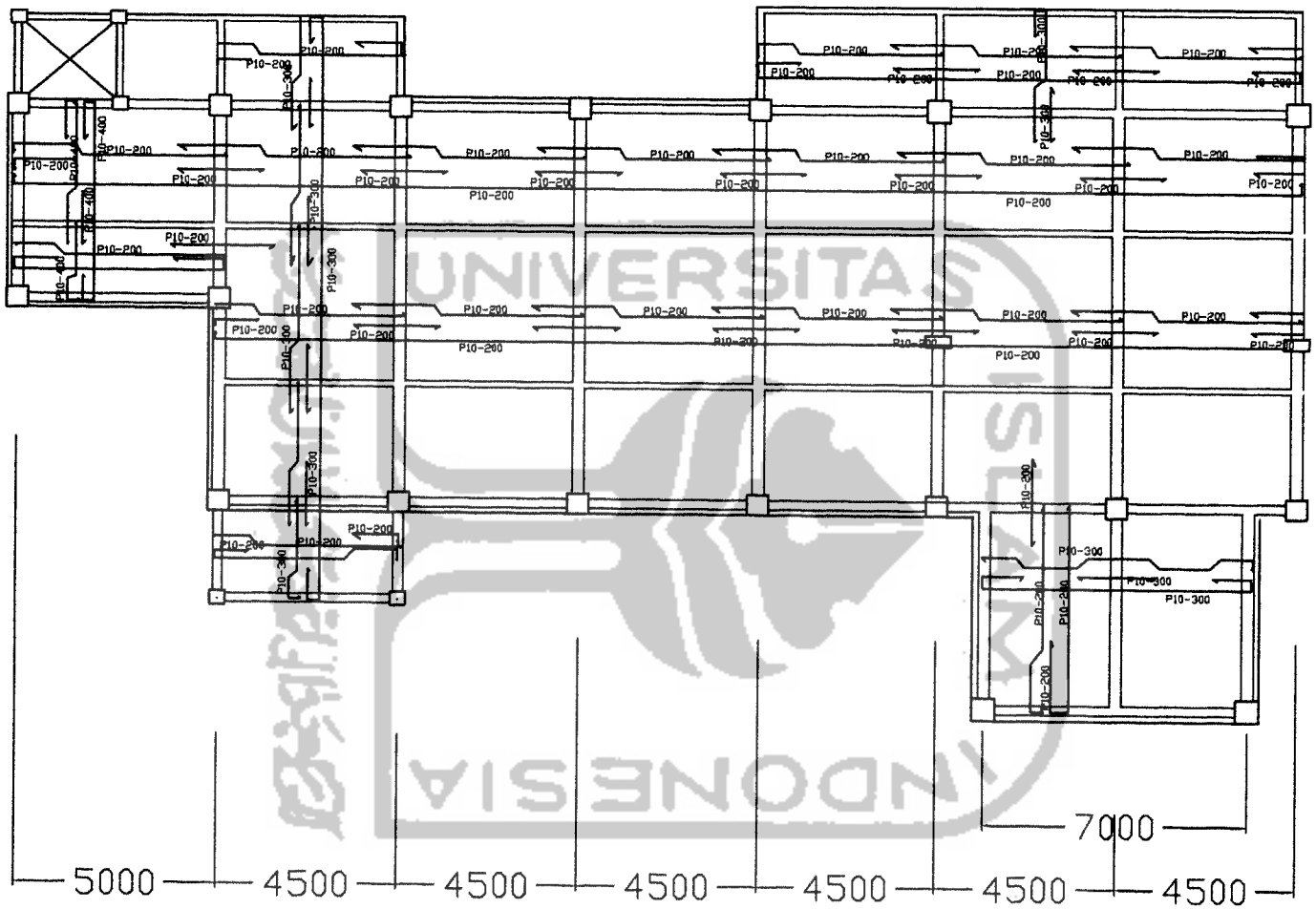
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Rencana Tangga

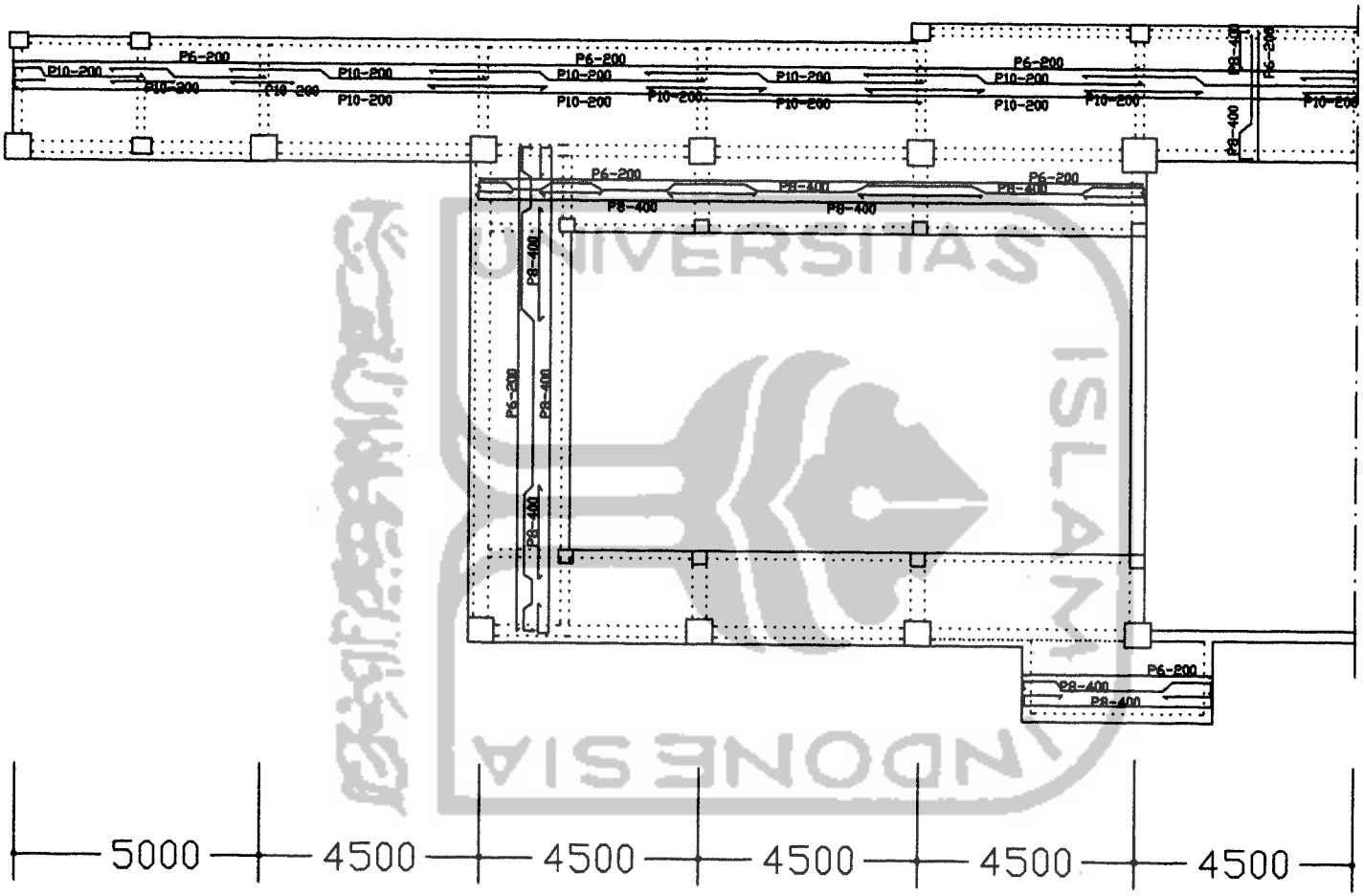


Rencana Penulangan Tangga



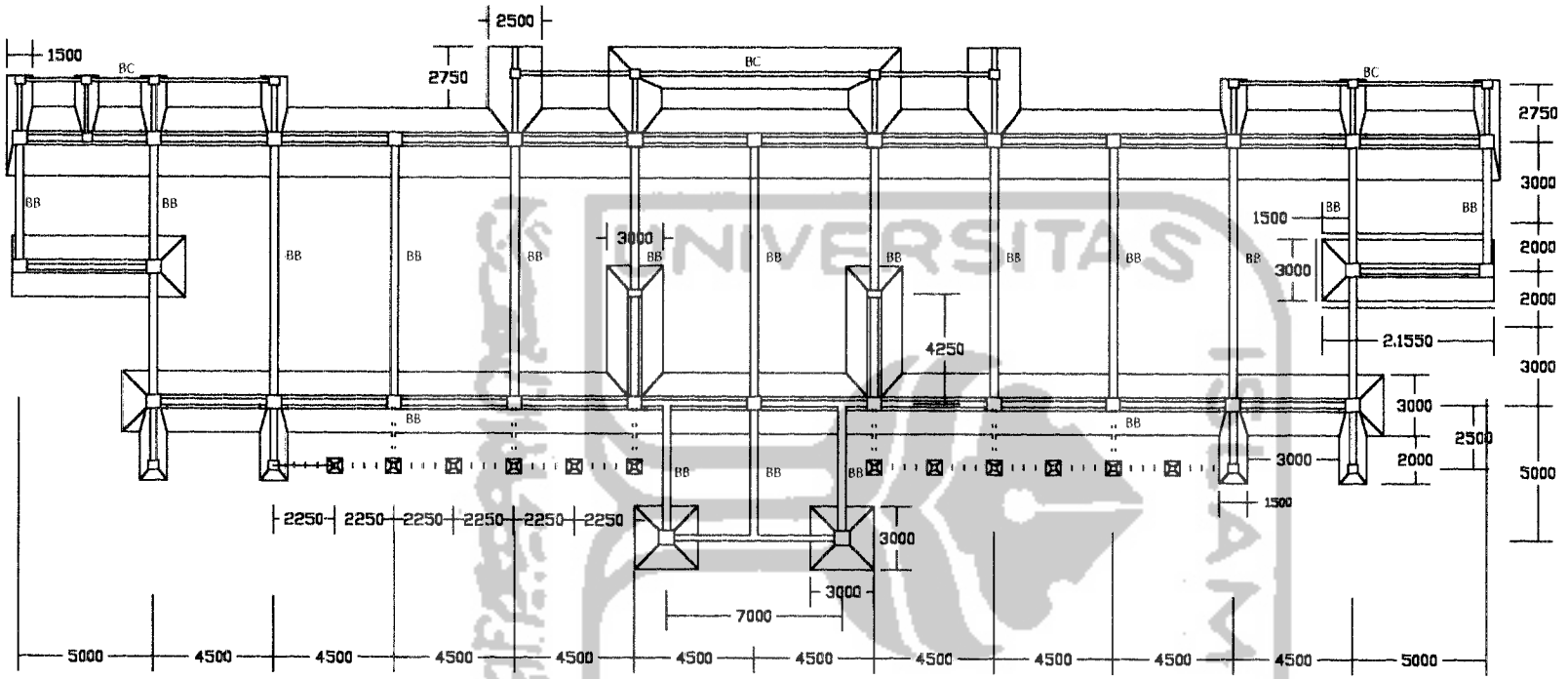
Rencana Tulangan Plat Lantai

Skala 1 : 150



Rencana Tulangan Plat Atap

Skala 1 : 100

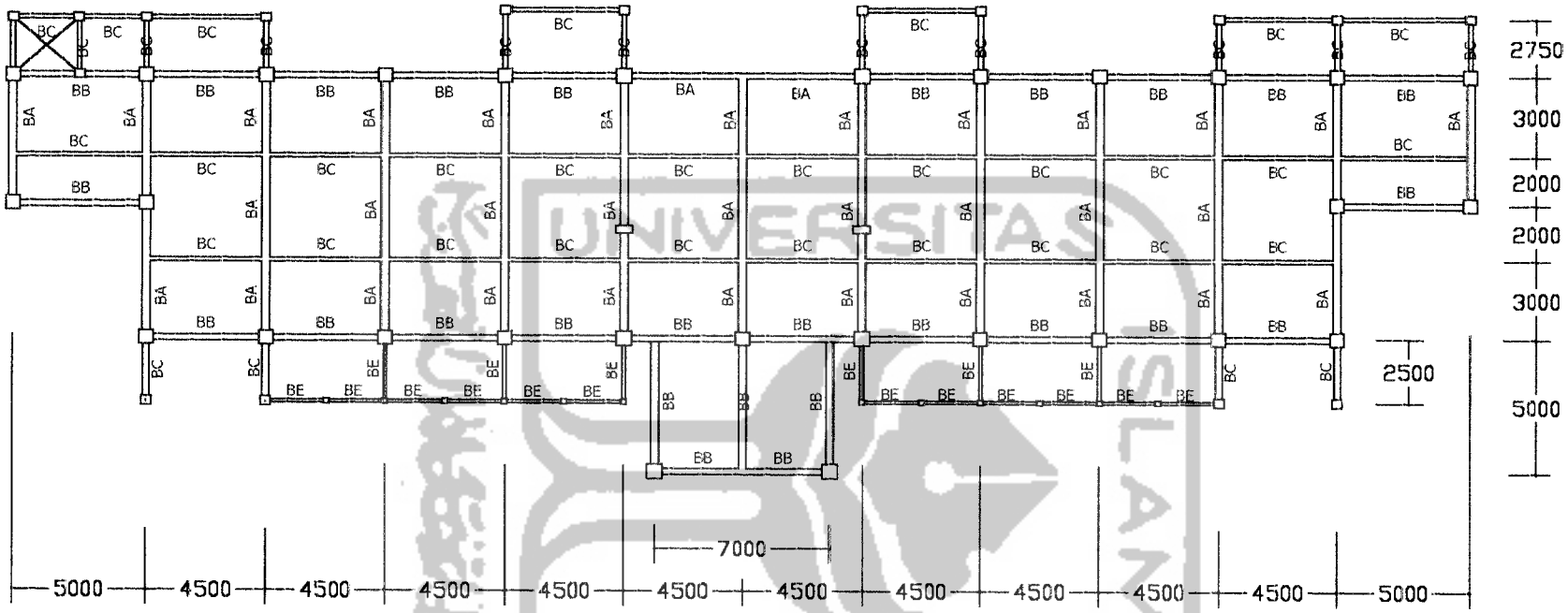


Keterangan

BB = 30X50
BC = 25X40

Rencana Pondasi

Skala 1 : 250

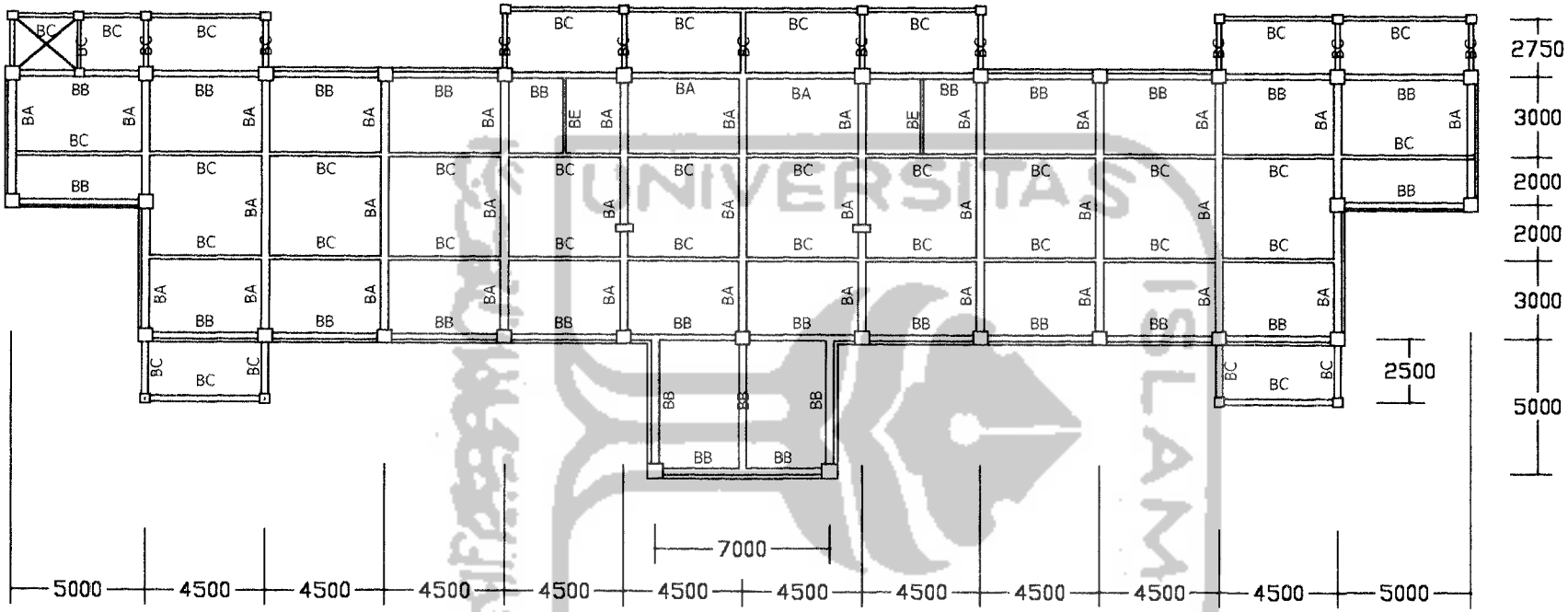


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BE = 15X20

Rencana Balok Lantai Besement

Skala 1 : 250

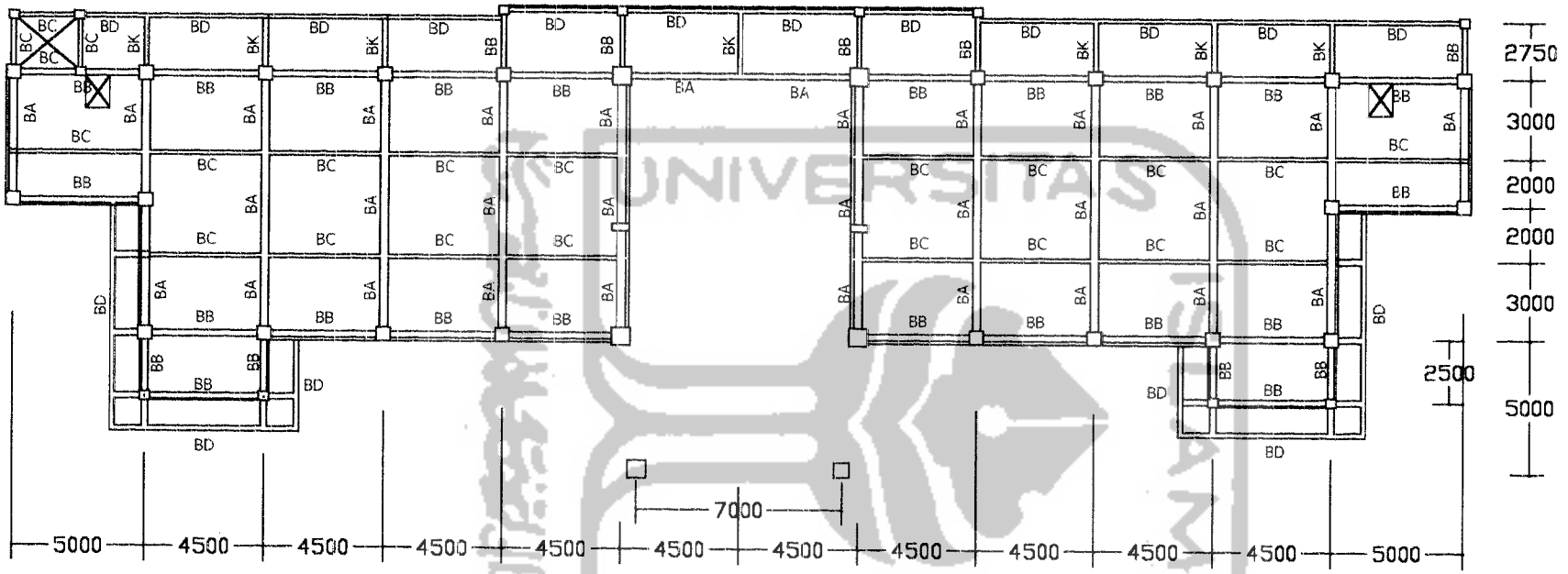


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BE = 15X20

Rencana Balok Lantai 1

Skala 1 : 250

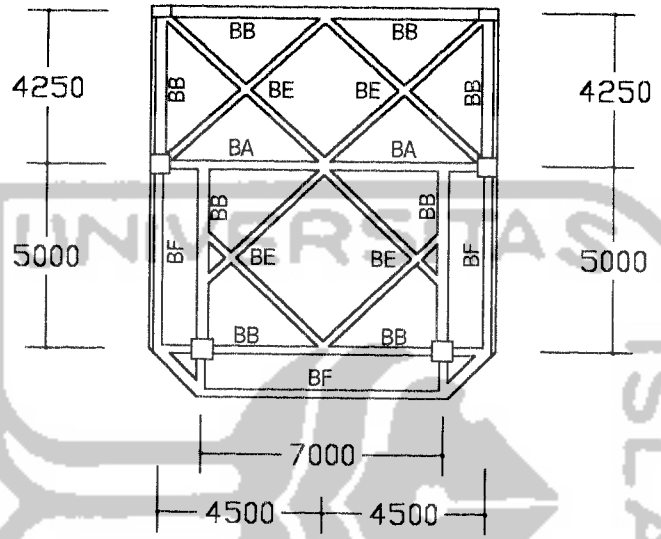


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BK = 30X50
BD = 20X50

Rencana Bolok Lantai 2

Skala 1 : 250

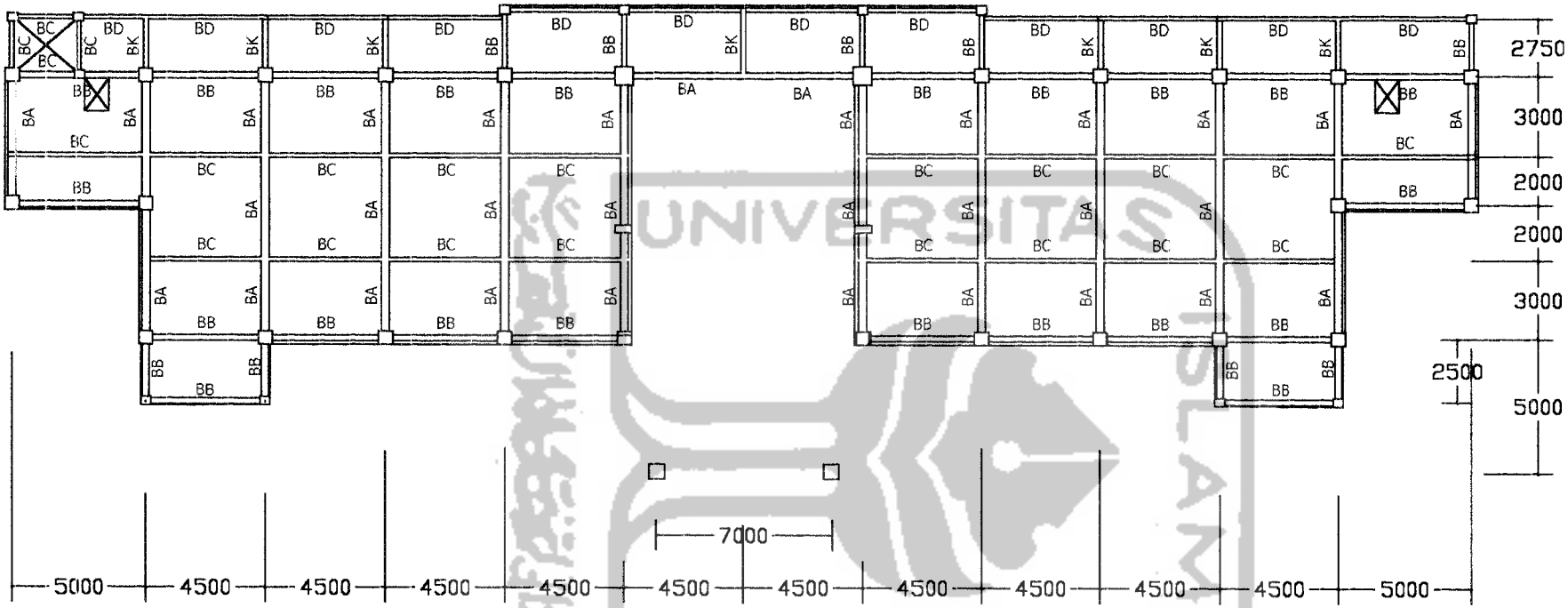


Keterangan

BA = 40X70
BB = 30X50
BE = 20X30
BF = 20X50

Rencana Balok Lantai 2.5

Skala 1 : 250

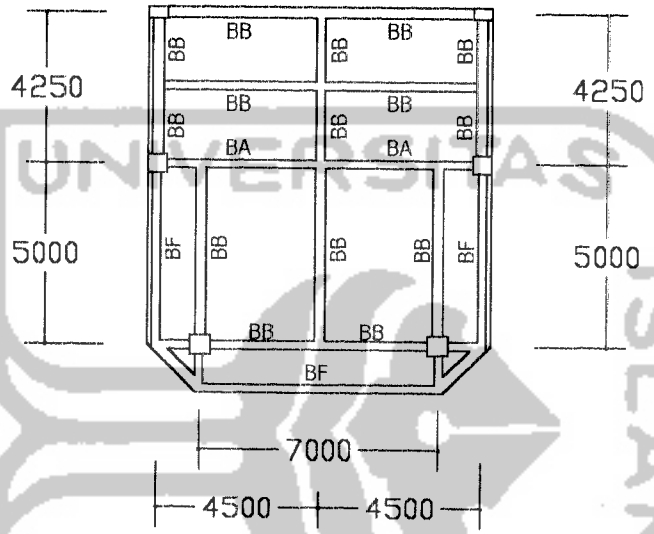


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BK = 30X50
BD = 20X50

Rencana Balok Lantai 3

Skala 1 : 250

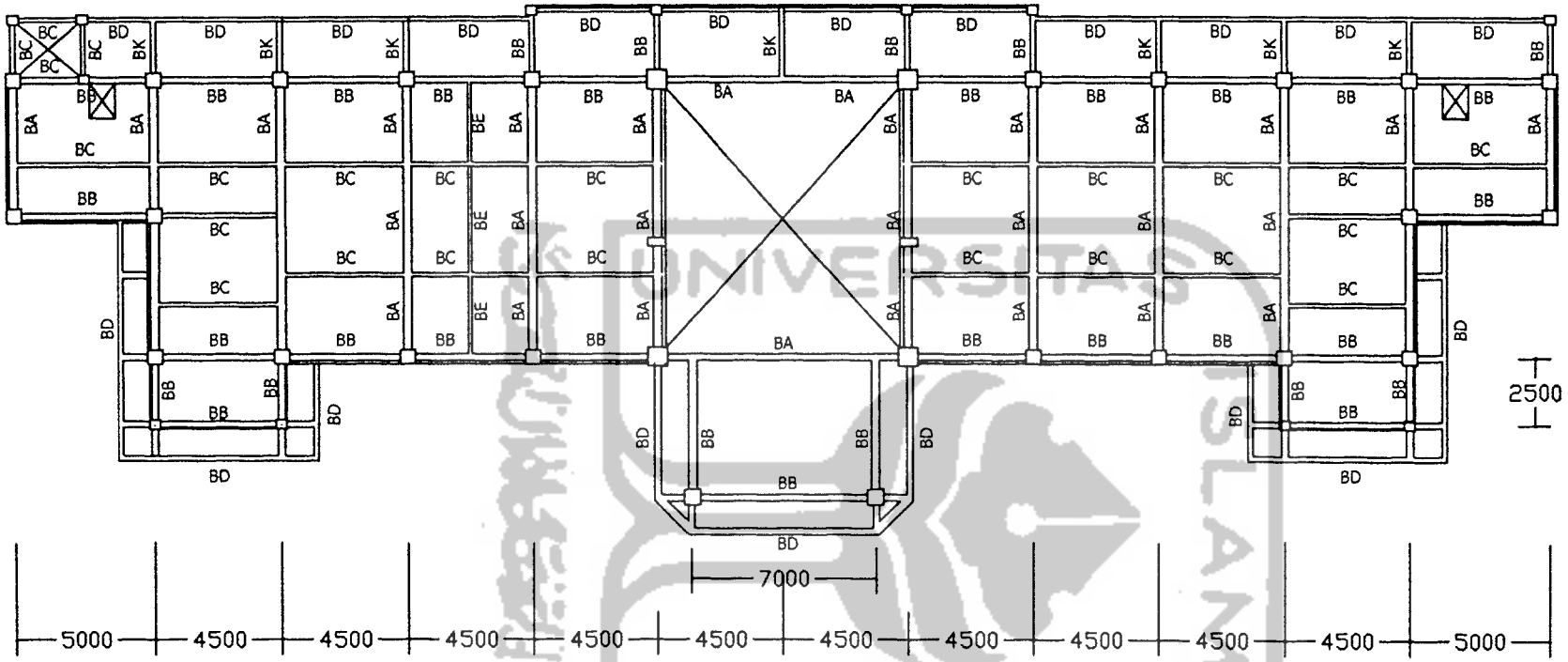


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BF = 20X30

Rencana Balok Lantai 3.5

Skala 1 : 250

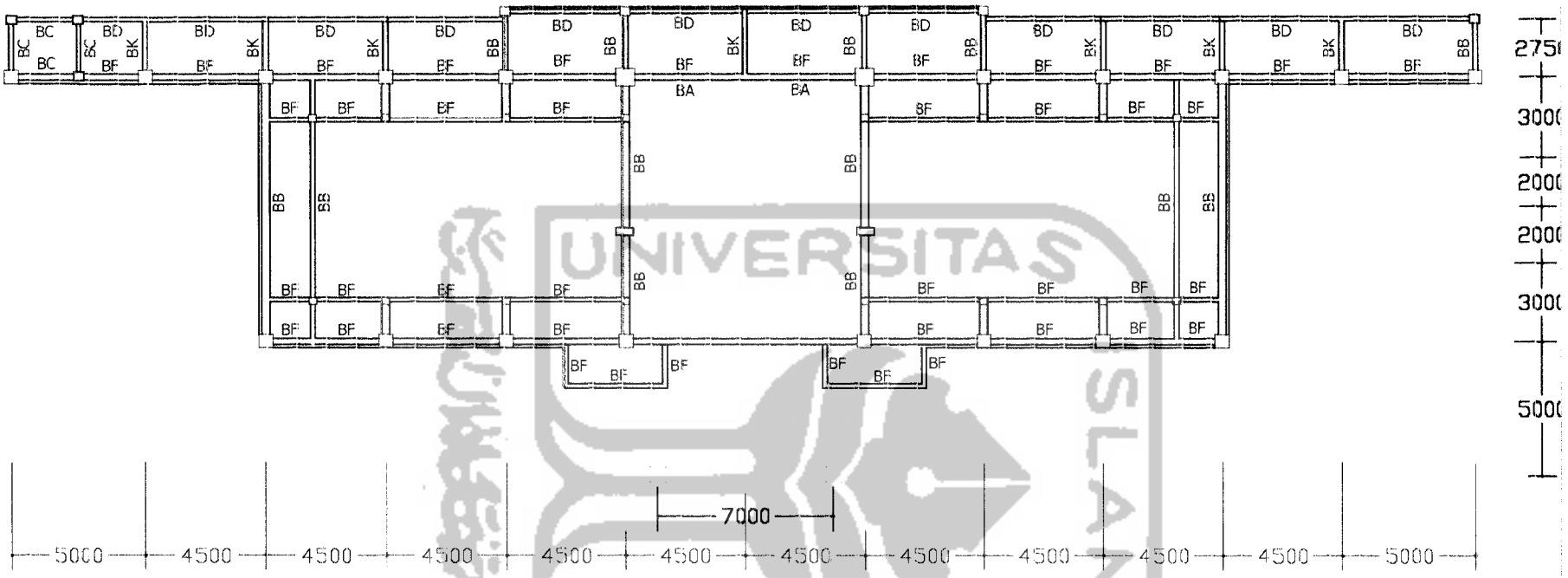


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BK = 30X50
BD = 20X50
BE = 15X20

Rencana Balok Lantai 4

Skala 1 : 250

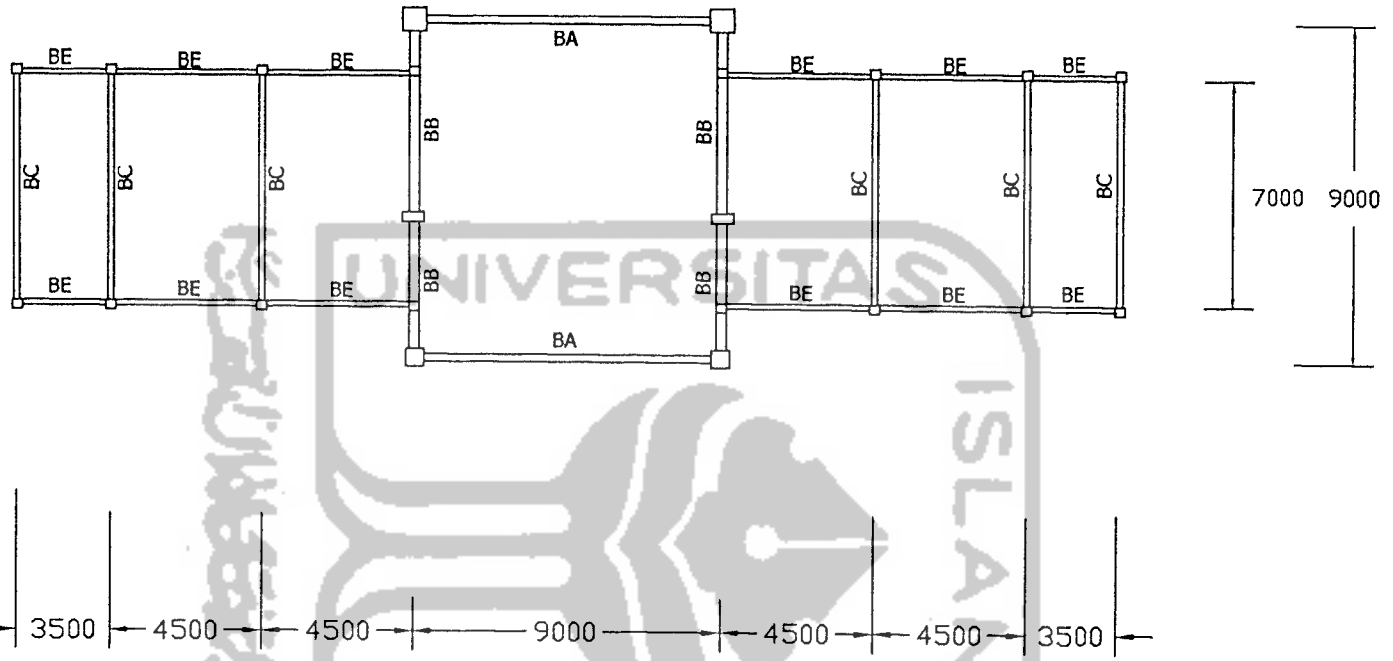


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BK = 30X50
BD = 20X50
BF = 20X30

Rencana Balok Lantai Atap

Skala 1 : 250

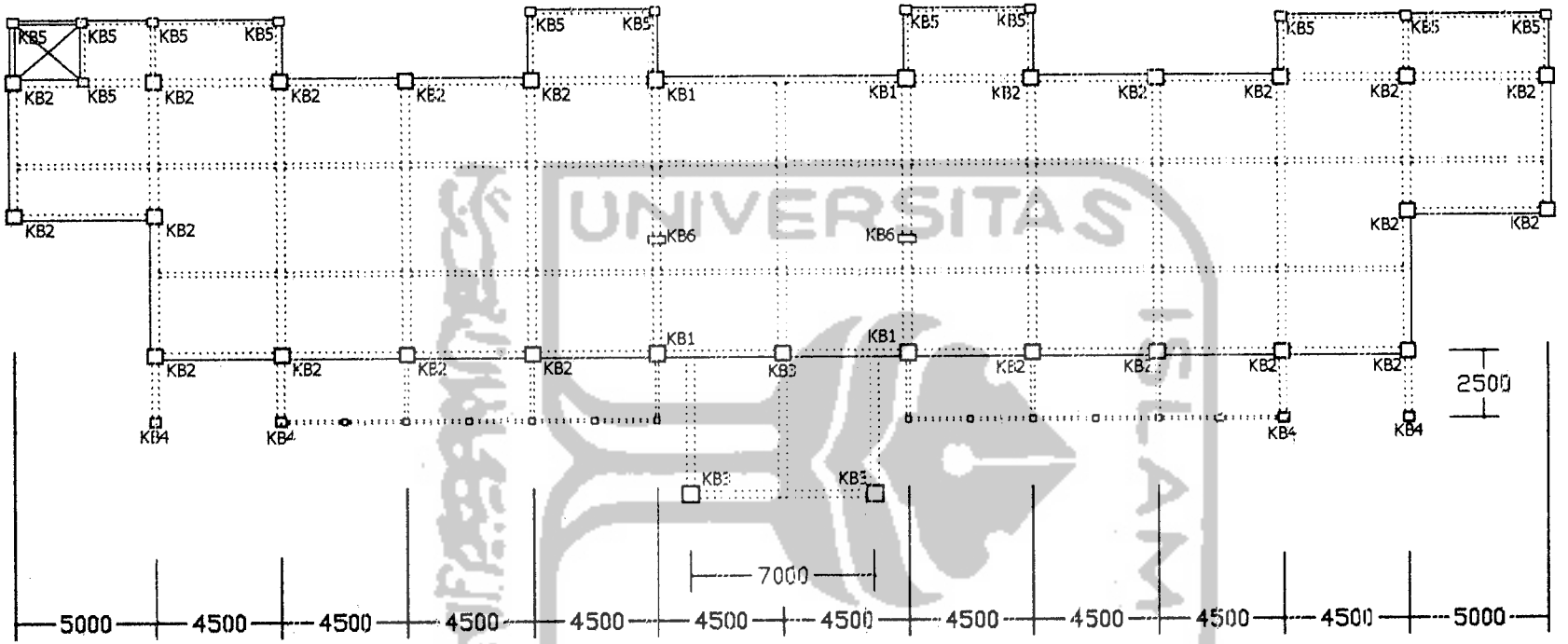


Keterangan

BA = 45X70
BB = 30X50
BC = 25X40
BE = 20X30

Rencana Balok Atap

Skala 1 : 250

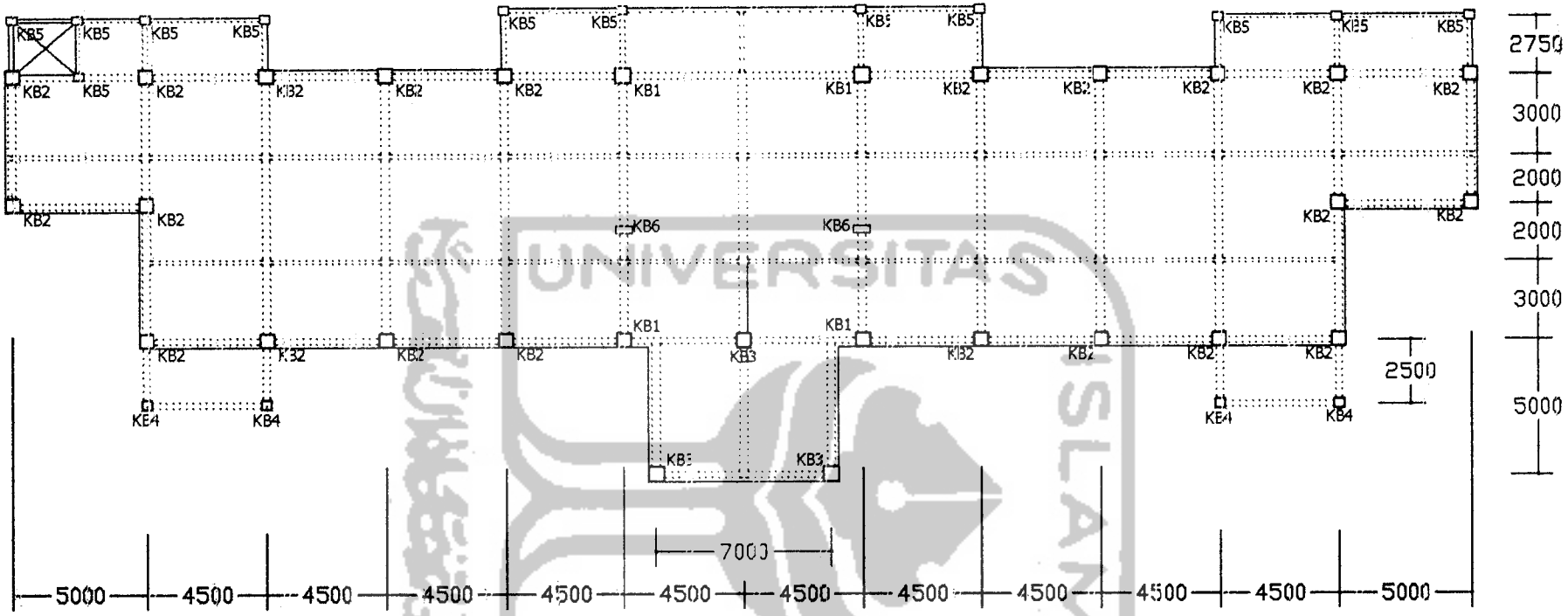


Keterangan

KB1 = 50X50
KB2 = 45X50
KB3 = 45X45
KB4 = 30X30
KB5 = 30X25
KB6 = 30X50

Rencana Kolom Lantai Besement

Skala 1 : 250

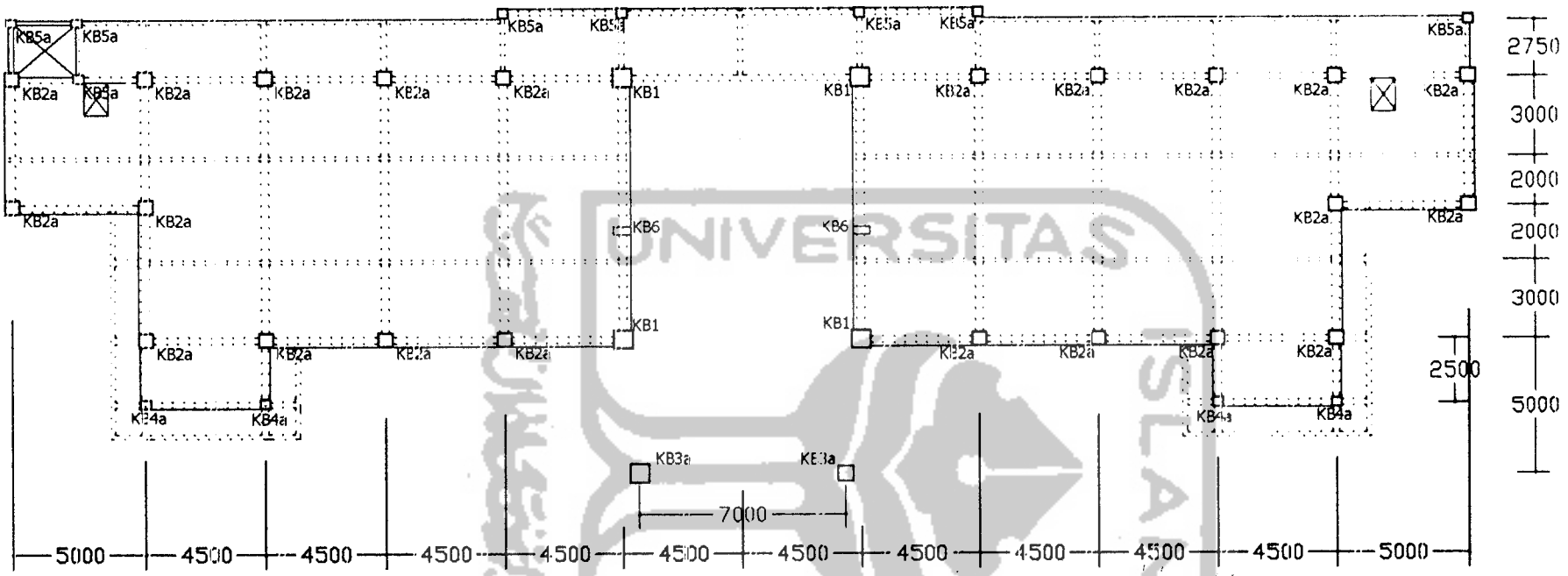


Keterangan

KB1 = 50X50
KB2 = 45X50
KB3 = 45X45
KB4 = 30X30
KB5 = 30X25
KB6 = 30X50

Rencana Kolom Lantai 1

Skala 1 : 250

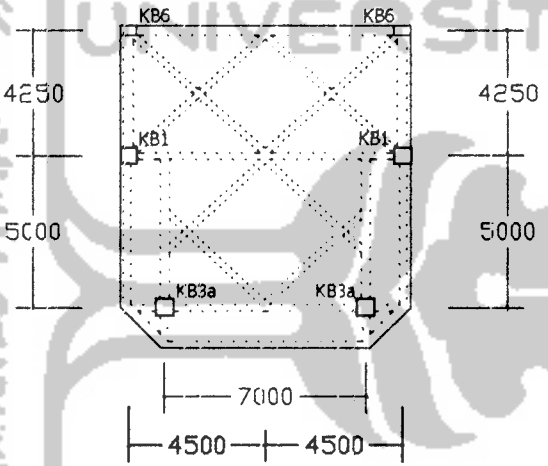


Keterangan

KB1 = 50X50
KB2a = 45X50
KB3a = 45X45
KB4a = 30X30
KB5a = 30X25
KB6 = 30X50

Rencana Kolom Lantai 2

Skala 1 : 250

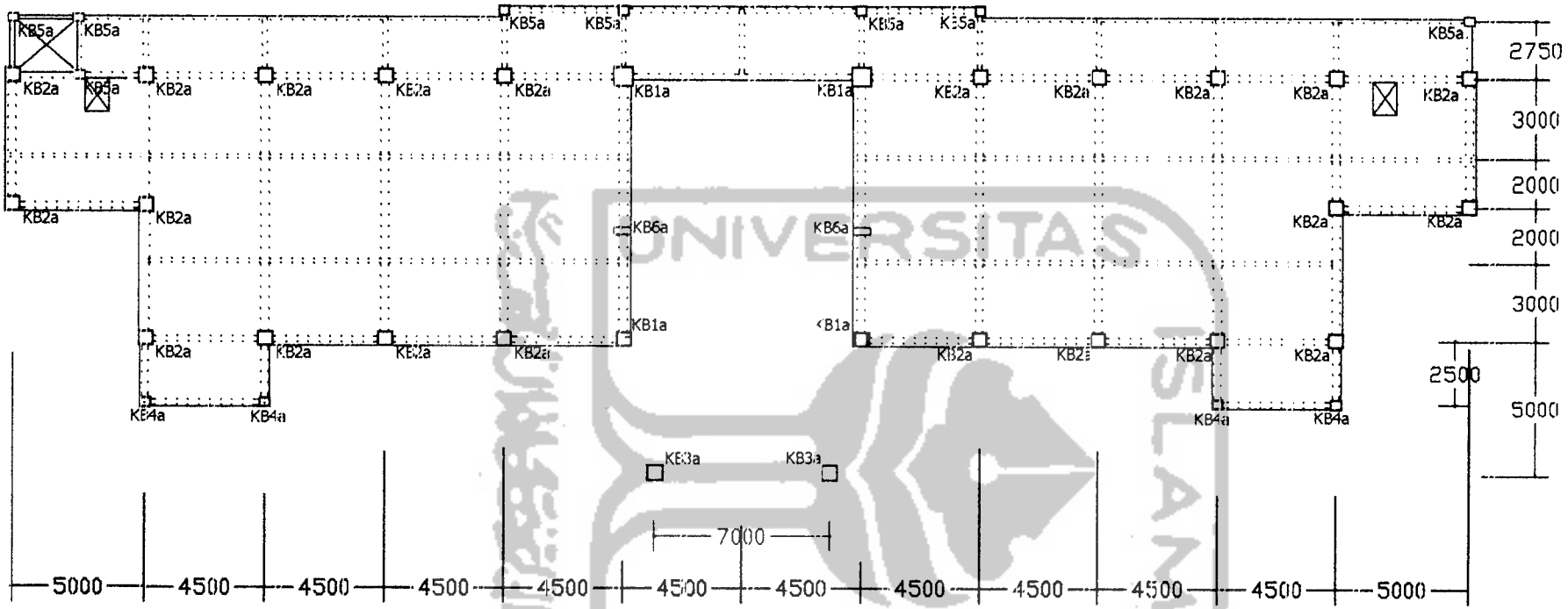


Keterangan

KB1 = 50X50
KB3a = 45X45
KB6 = 30X50

Rencana Kolom Lantai 2.5

Skala 1 : 250

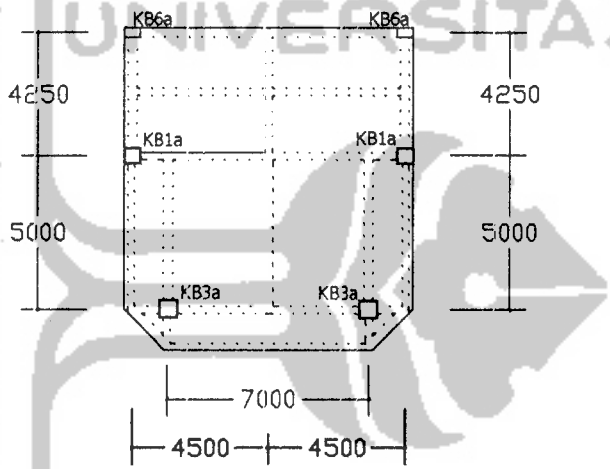


Keterangan

KB1a = 50X50
KB2a = 45X50
KB3a = 45X45
KB4a = 30X30
KB5a = 30X25
KB6a = 30X50

Rencana Kolom Lantai 3

Skala 1 : 250

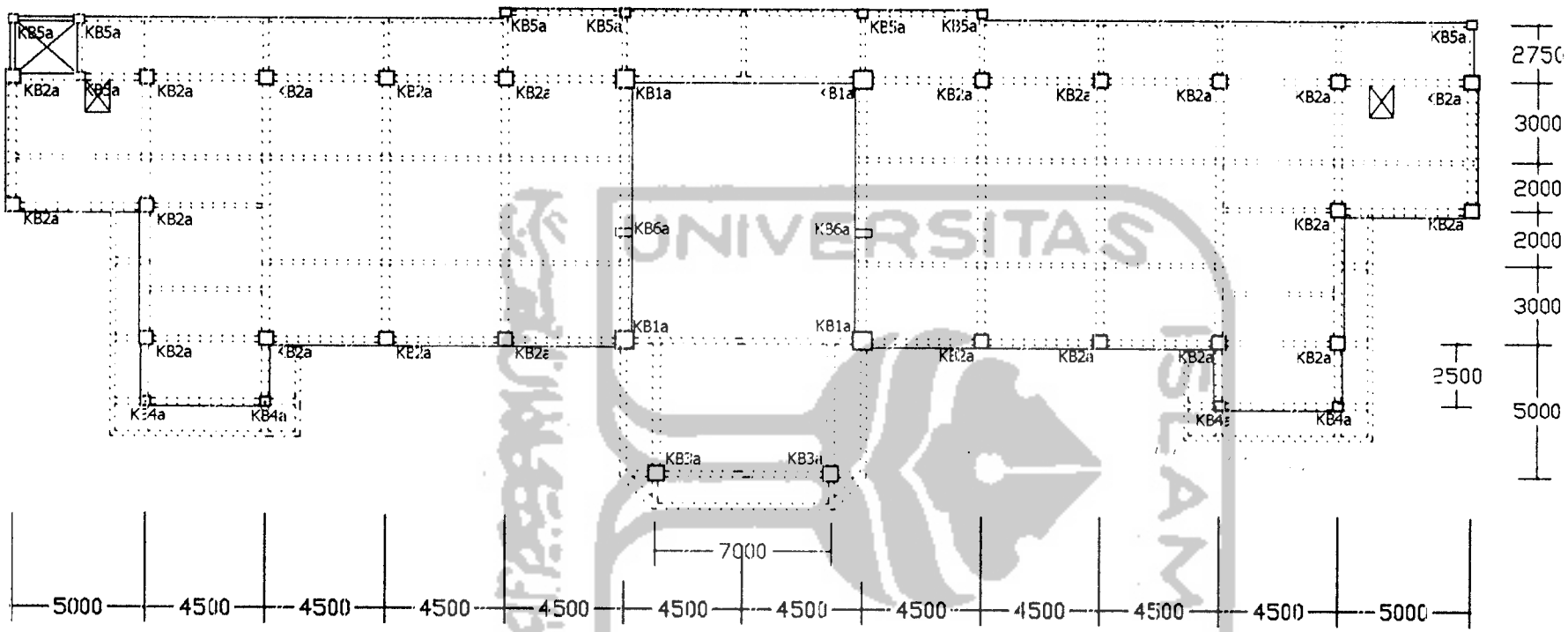


Keterangan

KB1a = 50X50
KB3a = 45X45
KB6a = 30X50

Rencana Kolom Lantai 3.5

Skala 1 : 250

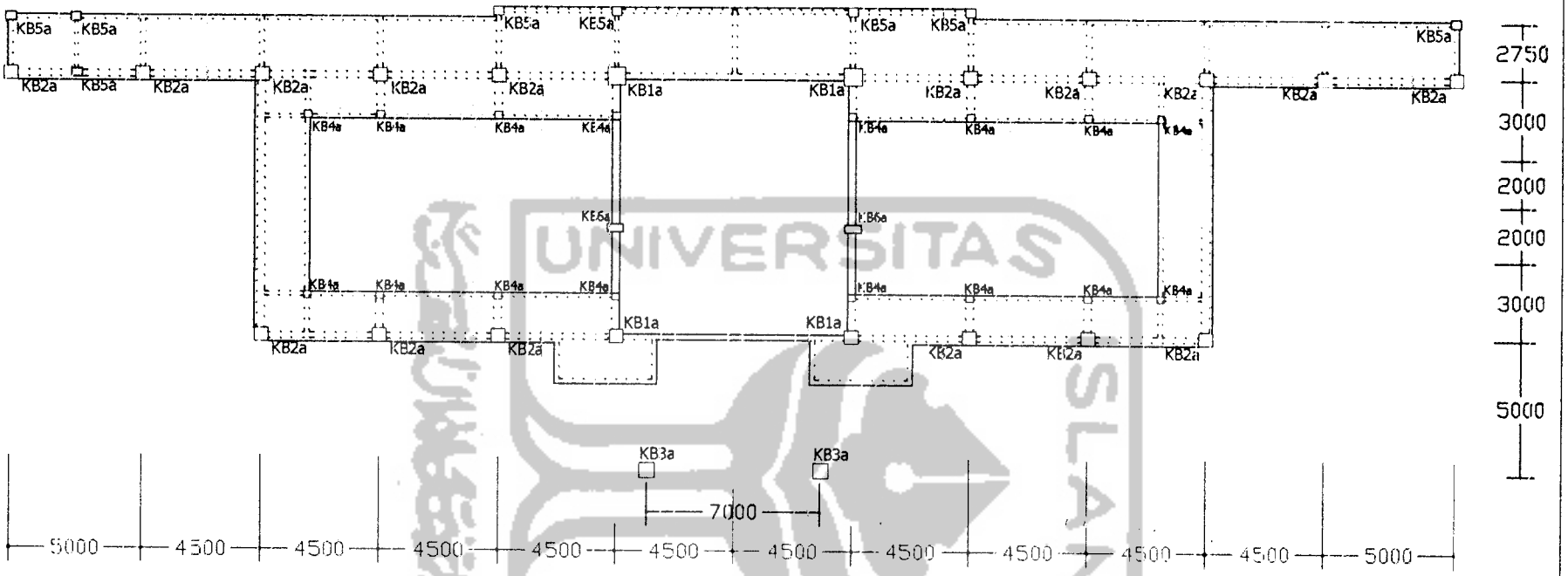


Keterangan

KB1a = 50X50
KB2a = 45X50
KB3a = 45X45
KB4a = 30X30
KB5a = 30X25
KB6a = 30X50

Rencana Kolom Lantai 4

Skala 1 : 250

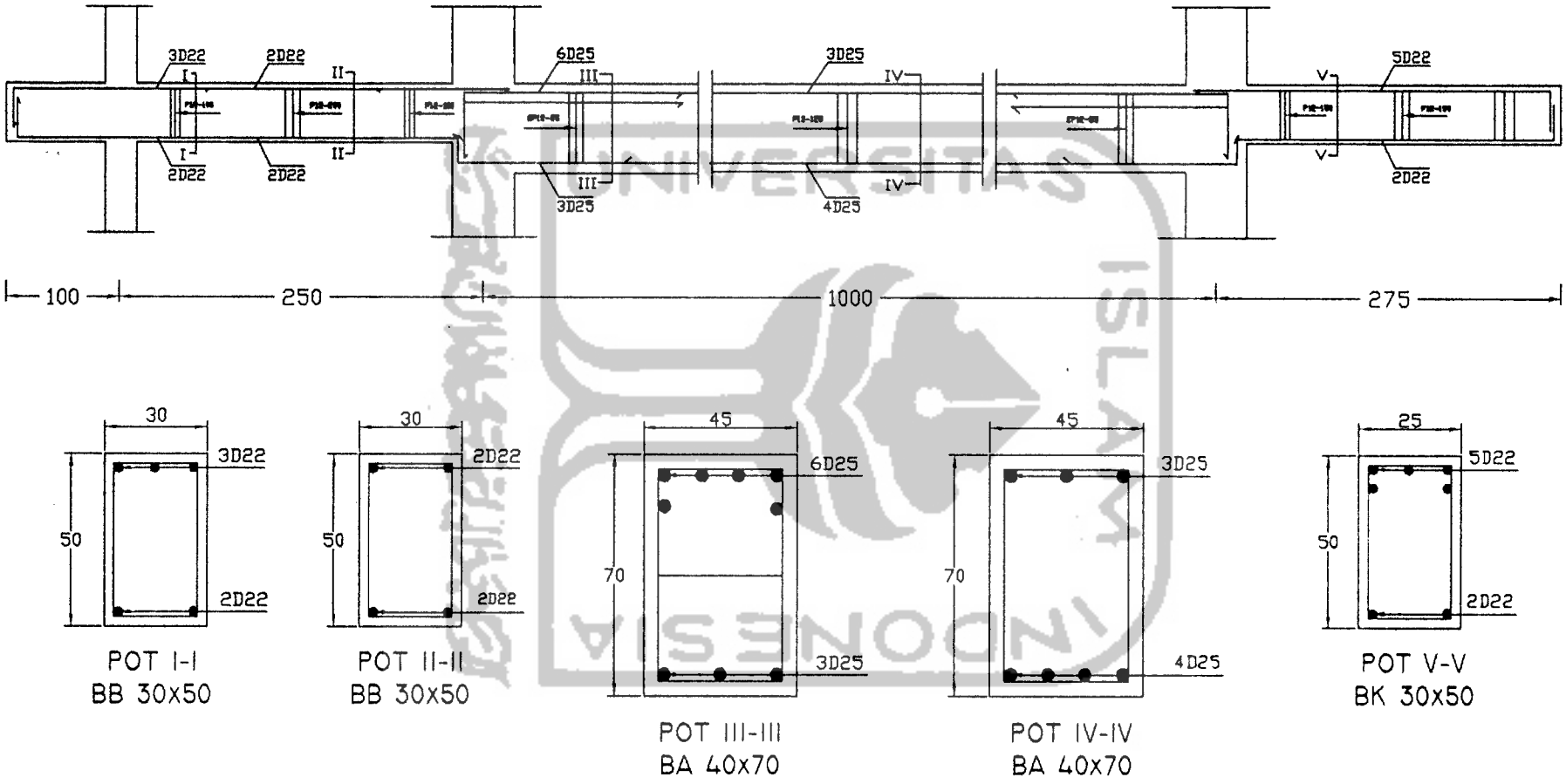


Keterangan

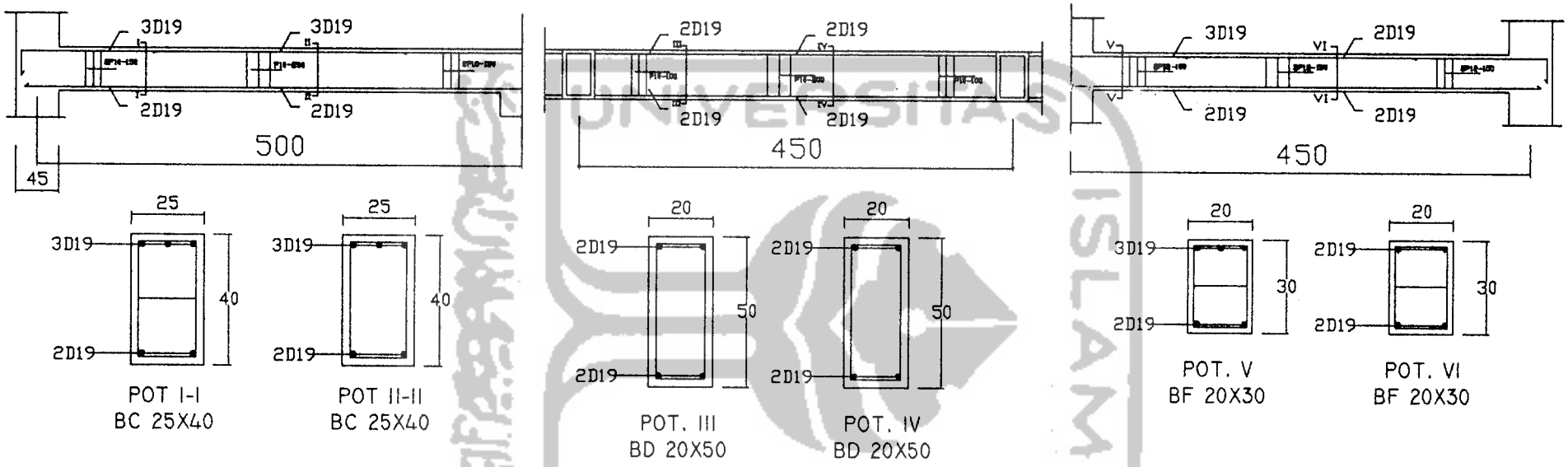
KB1a = 50X50
KB2a = 45X50
KB3a = 45X45
KB4a = 30X30
KB5a = 30X25
KB6a = 30X50

Rencana Kolom Lantai Atap

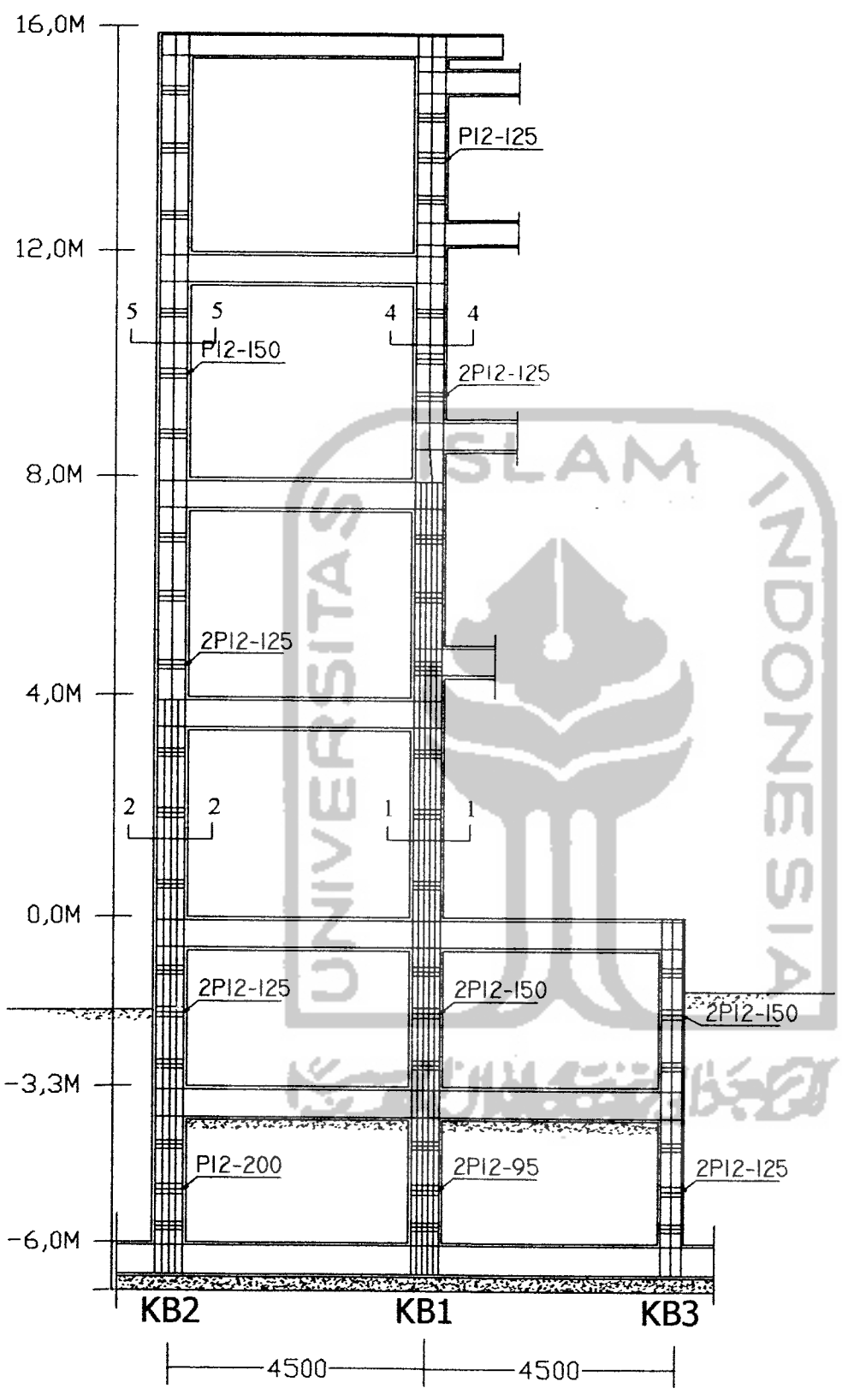
Skala 1 : 250

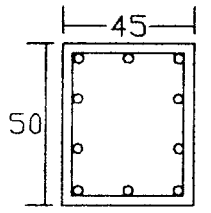


Detail Balok BA, BB dan BK

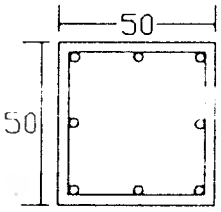


Detail Balok BA, BB dan BK

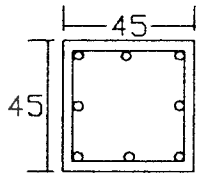




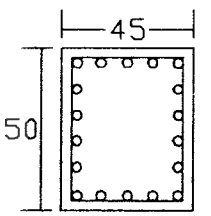
POT 5-5
KB2a-10D25



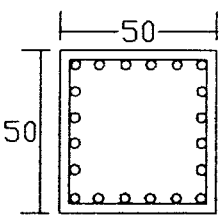
POT 4-4
KB1a-8D25



POT 3-3
KB3-8D19

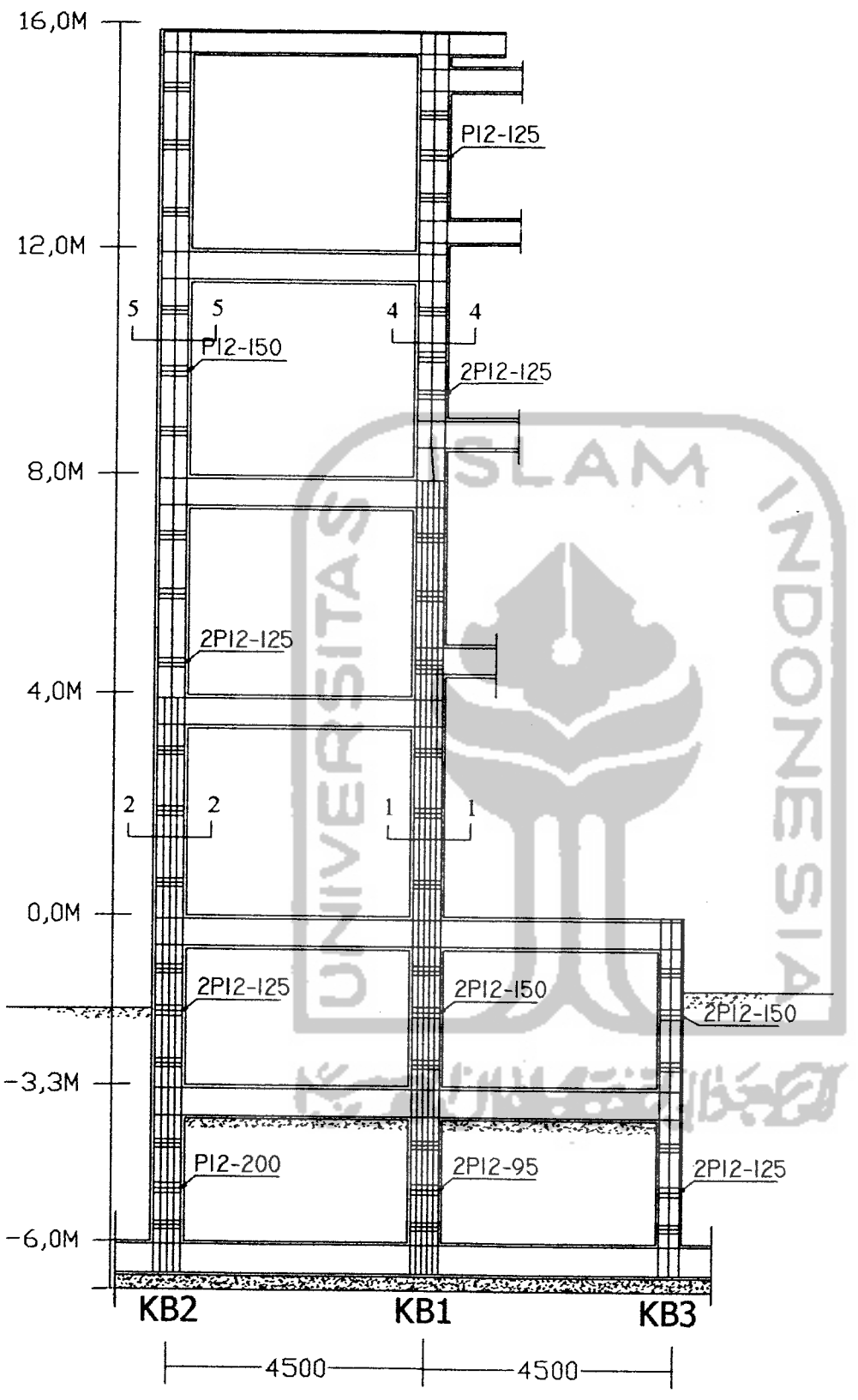


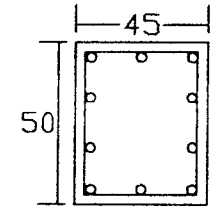
POT 2-2
KB2-18D25



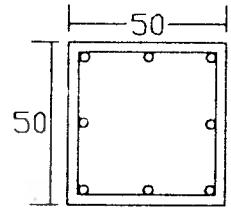
POT 1-1
KB1-20D25

Detail Kolom KB1,KB2,KB3 dan KB1a,KB2a

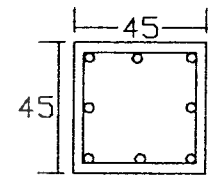




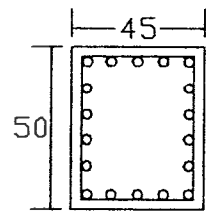
POT 5-5
KB2a-10D25



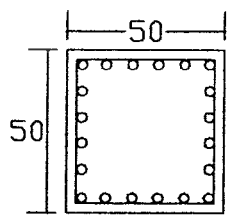
POT 4-4
KB1a-8D25



POT 3-3
KB3-8D19

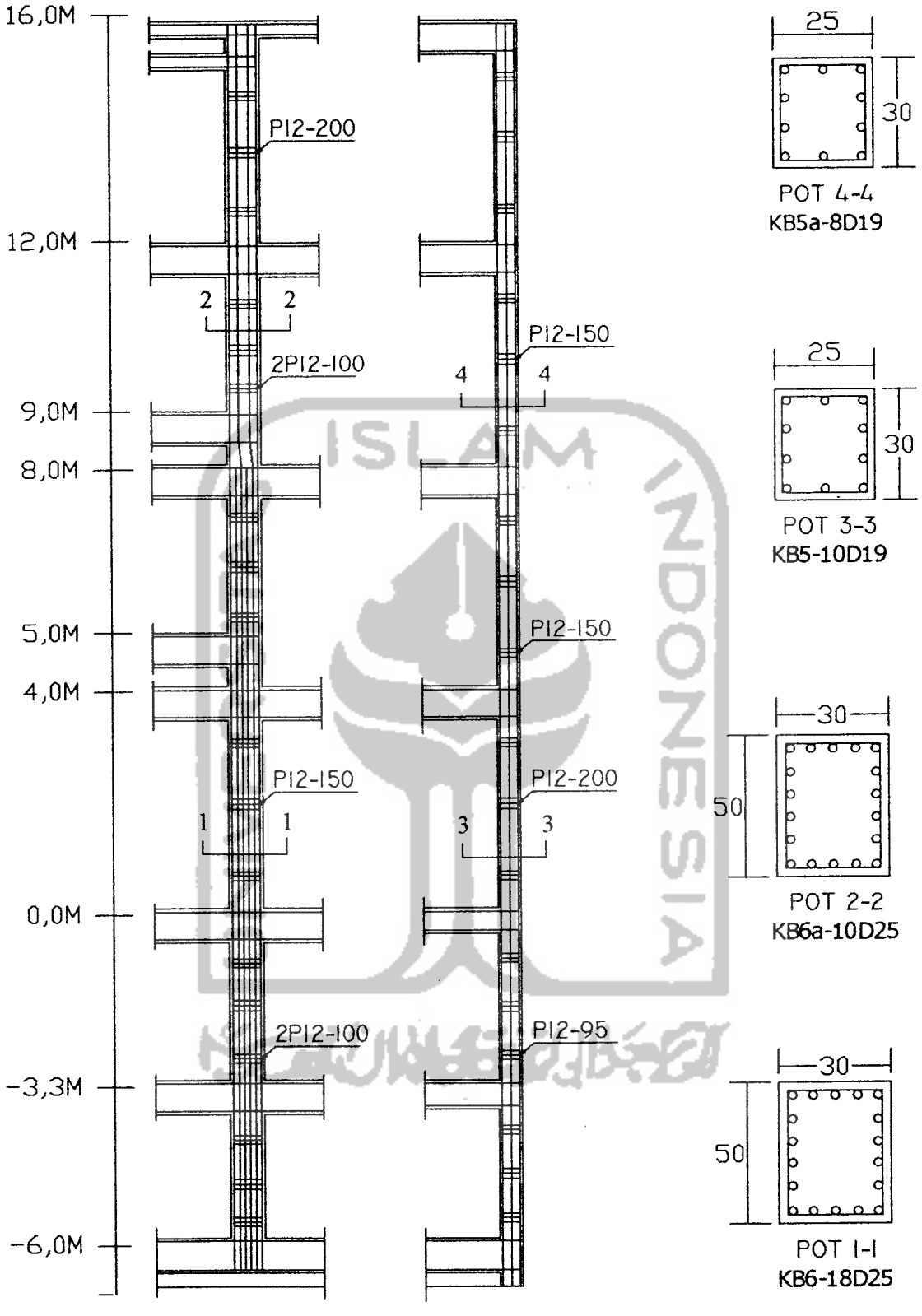


POT 2-2
KB2-18D25

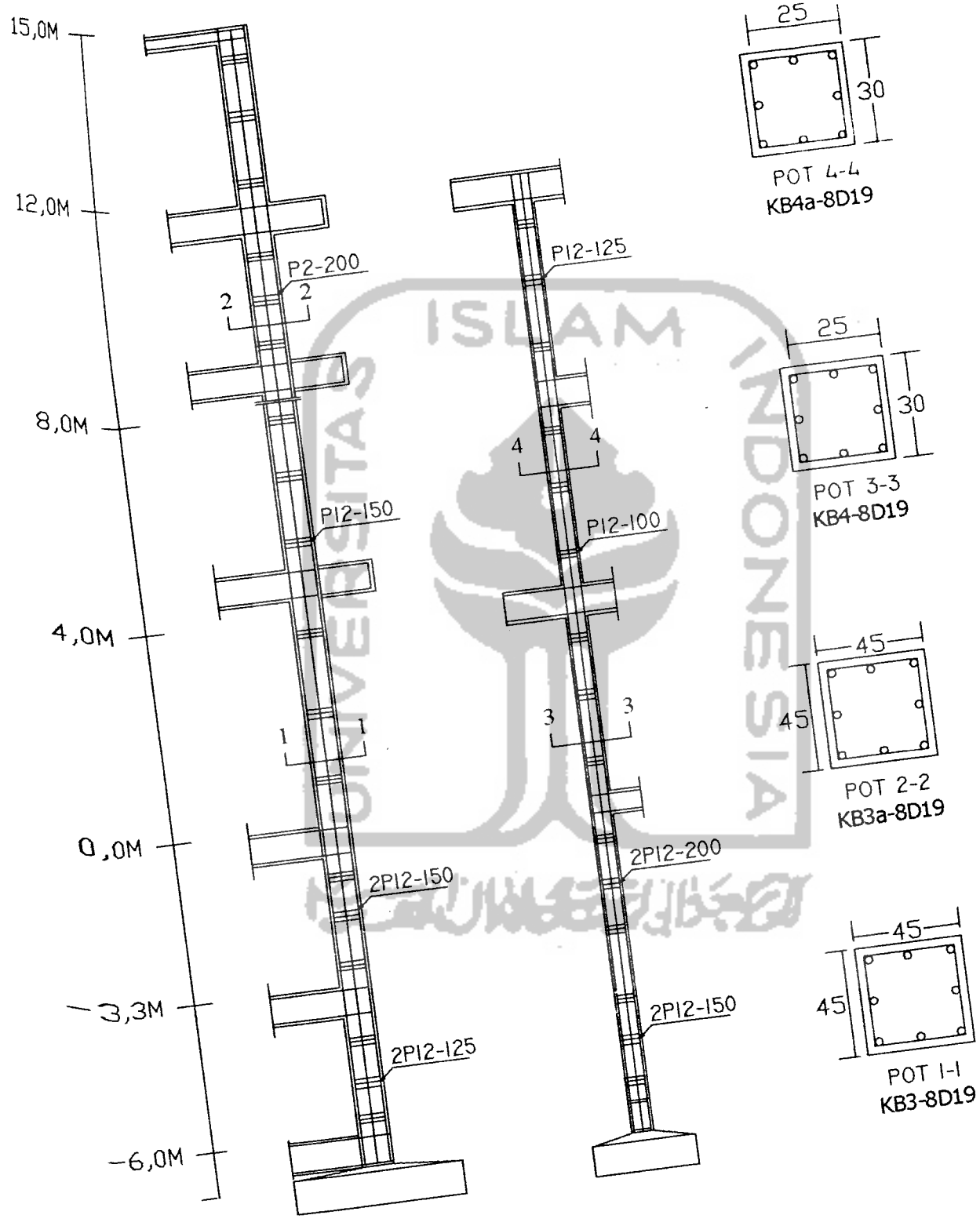


POT 1-1
KB1-20D25

Detail Kolom KB1,KB2,KB3 dan KB1a,KB2a



Detail Kolom KB5,KB5a, dan KB6,KB6a



Detail Kolom KB3,KB3a dan KB4,KB4a