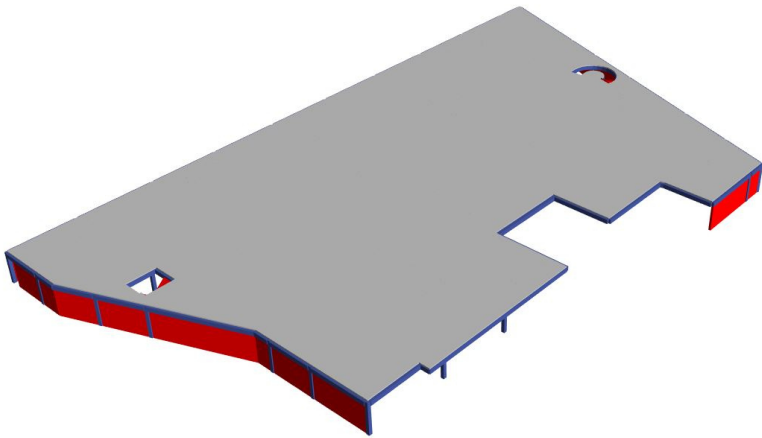




SAN JUAN DE CASTILLA: PARQUEADERO

MEMORIA DE CALCULO

DESCRIPCIÓN BREVE

Este documento contiene la memoria de cálculo del Parqueadero de San Juan de castilla, localizado en CII 7a N° 87b – 90.

PRESENTA:

ING. DIEGO FELIPE ESPINOSA PARADA

LOCALIZACIÓN

El proyecto SAN JUAN DE CASTILLA esta localizado en la CII 7a N° 87b - 90 en BOGOTA D.C.

NORMAS DE DISEÑO

El procedimiento de diseño de la estructura se realizó de acuerdo a los parametros legales vigentes en el reglamento Colombiano de Construcción Sismo resistente NSR - 10, Ley 400 de 1997 modificada por los siguientes decretos:

- Decreto 0926 de 2010
- Decreto 2525 de 2010
- Decreto 0092 de 2011
- Decreto 0340 de 2012

PROYECTO ARQUITECTONICO

El proyecto realizado fue desarrollado por URBANIZADORA MARIN VALENCIA.

ESTUDIO DE SUELOS

El estudio de suelos fue realizado por ING. JOSE ARTURO ROJAS FORBES el 1/10/2016 con el consecutivo MP 25202-41771

DESCRIPCION DE LA ESTRUCTURA

- Numero de pisos : 1
- Ocupación o uso : Parqueaderos
- Sistema de resistencia sismica :
Porticos resistentes a momentos con capacidad moderada de disipación de energía (DMO) de concreto
- Tipo de cimentación :
zapatas aisladas, zapatas combinadas y/o zapatas con vigas de contrapeso.

DISEÑO POR COMPUTADOR

El analisis de la estructura se realizó con la ayuda del programa ETABS 2016 el cual permite:

- Realizar un modelo tridimensional y considerar diafragmas rigidos
- Realizar un analisis modal
- Chequeo de derivas
- Considerar las combinaciones de cargas contempladas en el titulo B de la NSR - 10.
- Determinar las solicitaciones en los elementos estructurales

DESCRIPCION DE LA ESTRUCTURA

Elemento	Concreto	f'c (Mpa)	E (Mpa)
Zapatas	3000 psi	21.1	21,589.33
Columnas	3000 psi	21.1	21,589.33
Escaleras	3000 psi	21.1	21,589.33
Losa de entrepiso	3000 psi	21.1	21,589.33
Muros de contención	3000 psi	21.1	21,589.33

* Debe cumplirse con lo prescrito en C.3.2 a C.3.4 de la NSR - 10

item	Norma	fy (Mpa)	E (Mpa)
Barras ($\phi 1/2"$ - $\phi 1"$)	NTC 2289	420	200,000.00
Mallas electrosoldadas	NTC 5806	485	230,952.38

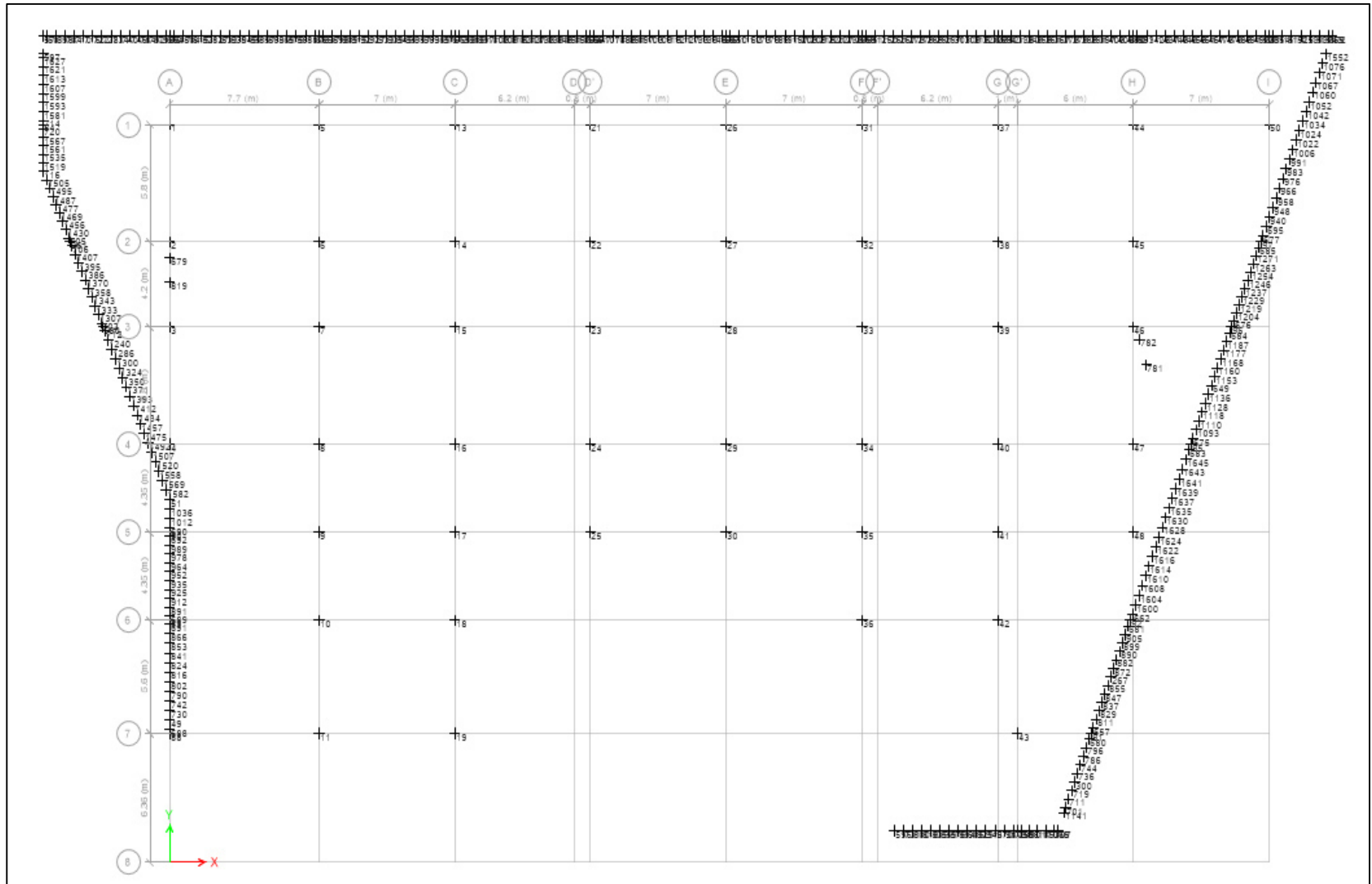
* Debe cumplirse con lo prescrito C.3.5 de la NSR - 10

TABLA DE CONTENIDO

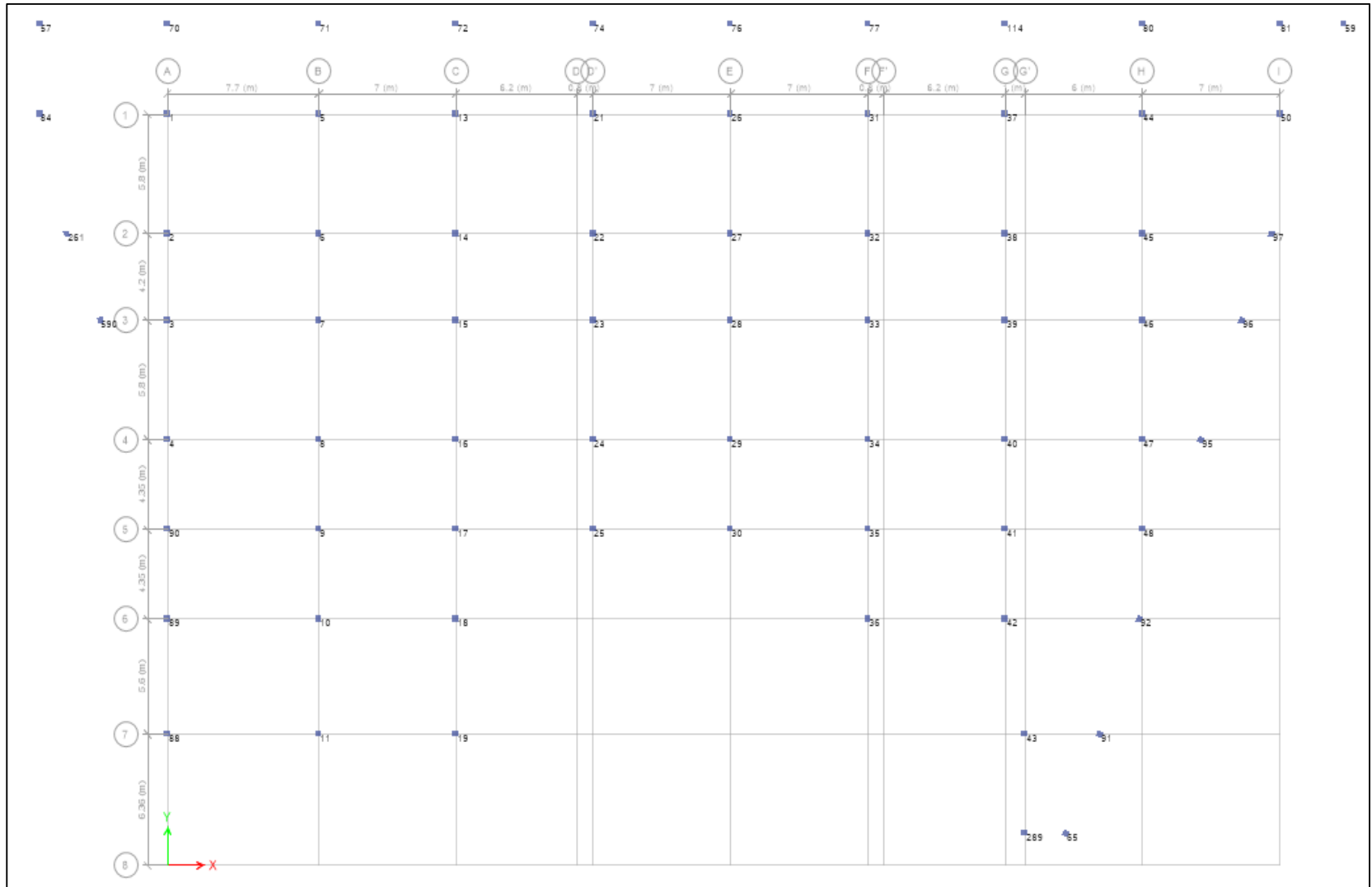
1. GEOMETRÍA
2. EVALUACIONES DE LAS SOLICITACIONES DEFINITAS
3. OBTENCIÓN DEL NIVEL DE AMENAZA SISMICA Y LOS VALORES
4. MOVIMIENTO SISMICO DE DISEÑO
5. CARACTERISTICAS DE LA ESTRUCTURA Y DEL MATERIAL ESTRUCTURAL EMPLEADO
6. GRADO DE IRREGULARIDAD DE LA ESTRUCTURA
7. DETERMINACIÓN DE LAS FUERZAS SISMICAS
8. ANALISIS SISMICO DE LA ESTRUCTURA
9. DESPLAZAMIENTOS HORIZONTALES
10. VERIFICACIÓN DE DERIVAS
11. COMBINACION DE LAS DIFERENTES SOLICITACIONES
12. DISEÑO DE ELEMENTOS
 - 12.1 DISEÑO DE VIGAS
 - 12.2 DISEÑO Y REVISIÓN DE COLUMNAS
 - 12.3 DISEÑO DE LA LOSA DE ENTREPISO
 - 12.4 REVISIÓN DE ZAPATAS CÉNTRICAS
 - 12.5 DISEÑO DE ZAPATAS EXCÉNTRICAS
 - 12.6 DISEÑO DE CIMIENTOS COMBINADOS
13. ACTIVIDADES DE REHABILITACIÓN DE LA ESTRUCTURA

1 GEOMETRÍA

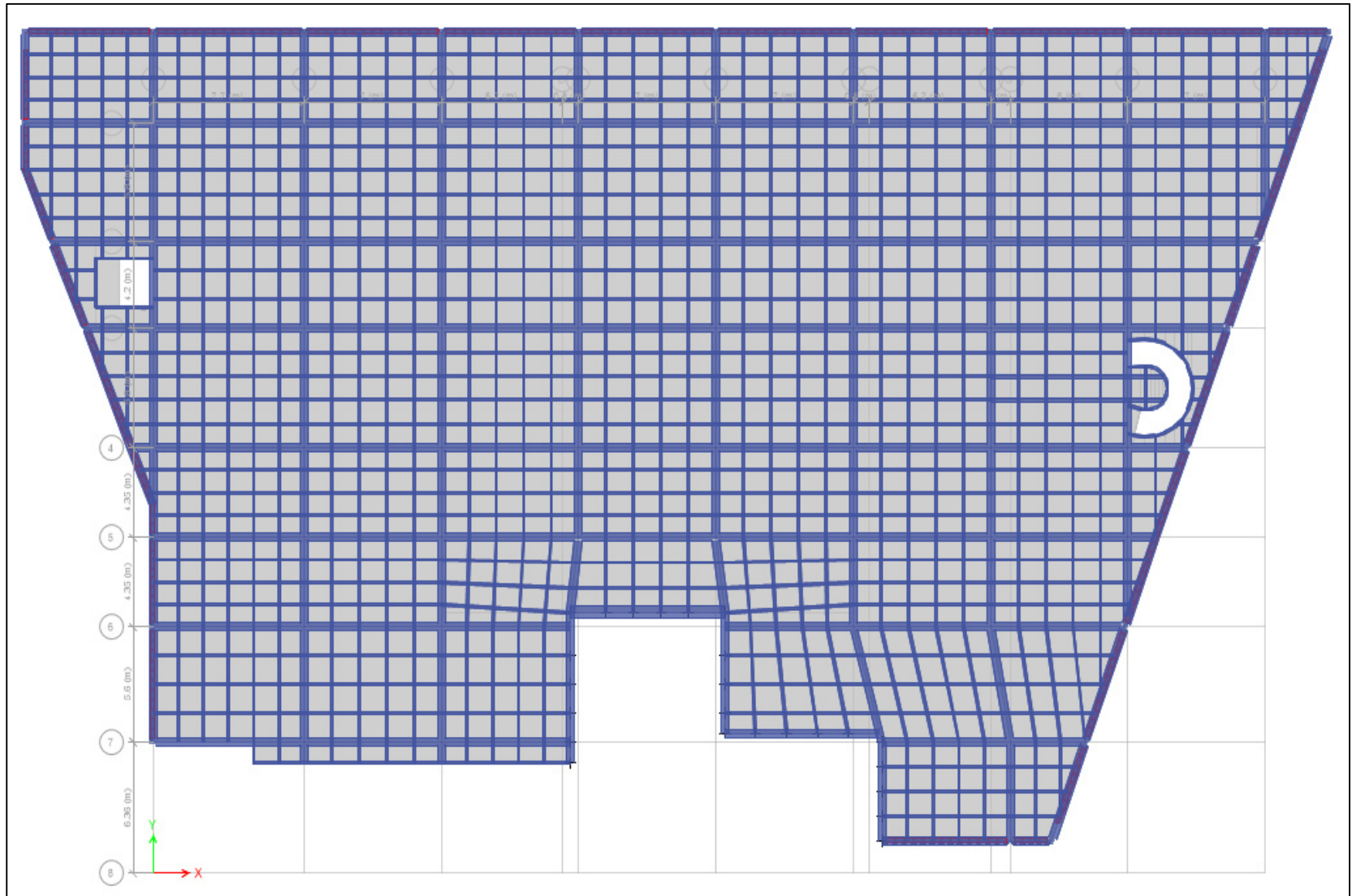
LOCALIZACIÓN DE NODOS



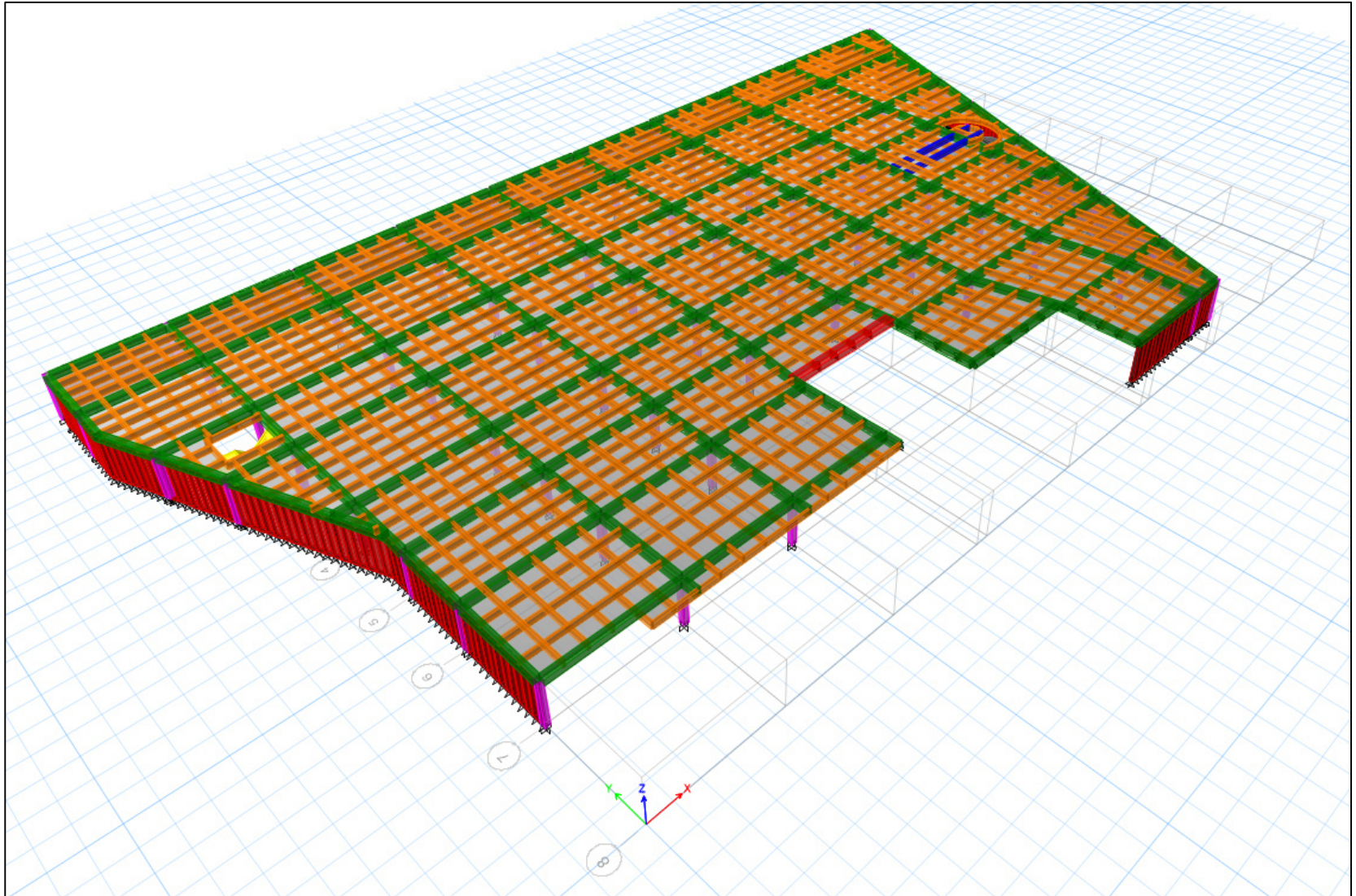
LOCALIZACION COLUMNAS



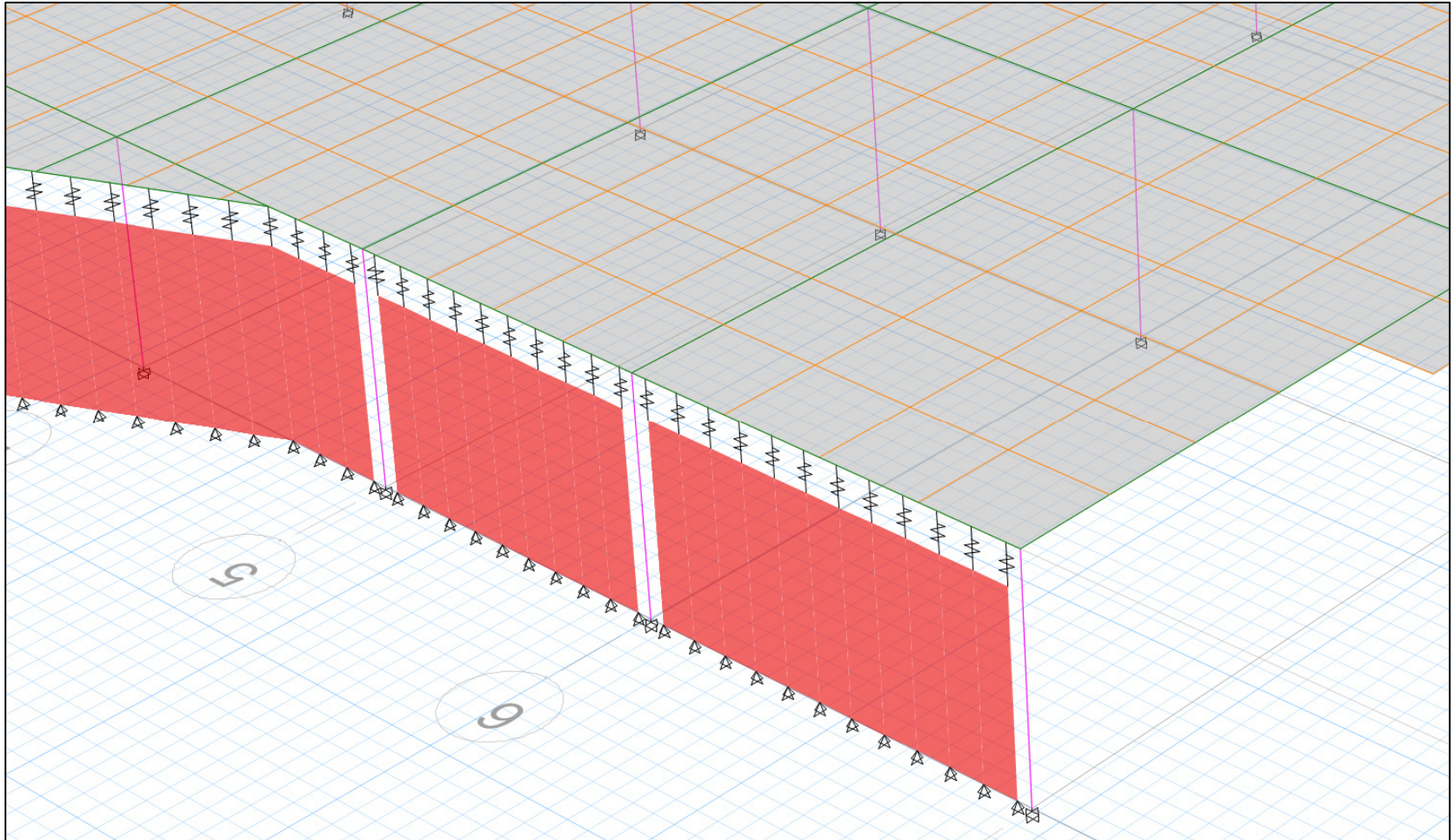
PLANTA DE ESTRUCTURAL: PISO 2



MODELO TRIDIMENSIONAL



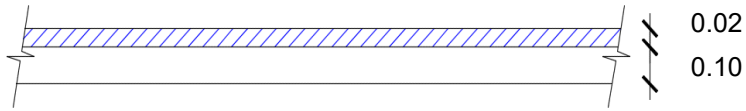
DETALLE DE LA MODELACIÓN DEL MURO DE CONTENCIÓN



Nota:

- El muro de contención estará dilatado del pórtico debido a que no se considerará la rigidez aportada por éste en el modelo matemático. Únicamente, se consideran las cargas de los muros debido a la presión de tierras.

2
EVALUACIÓN DE LAS
SOLICITACIONES
DEFINITIVAS

2. EVALUACIÓN DE LAS SOLICITACIONES DEFINITIVAS**PISO 2****CARGA MUERTA (D) :**

ítem	Espesor (m)	Carga (kN/m ²)
Losa	0.14	3.39
Acabados	0.02	0.40
E.N.E		0.60

* Espesor equivalente de placa aligerada

* Acabado en concreto

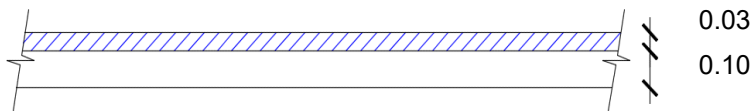
Carga Muerta adicional

D.T (kN/m²) = 4.39

D. ad (kN) = 1.00

CARGA VIVA (L) :

Ocupación	Carga (kN/m ²)
Parqueaderos	2.50
Granizo	1.00

ESCALERAS**CARGA MUERTA (D) :**

ítem	Espesor (m)	Carga (kN)
Losa	0.20	4.80
Acabados	0.03	0.50
E.N.E		2.50

* Acabado en concreto

Carga Muerta adicional

D.T (kN/m²) = 7.80

D. ad (kN) = 3.00

CARGA VIVA (L) :

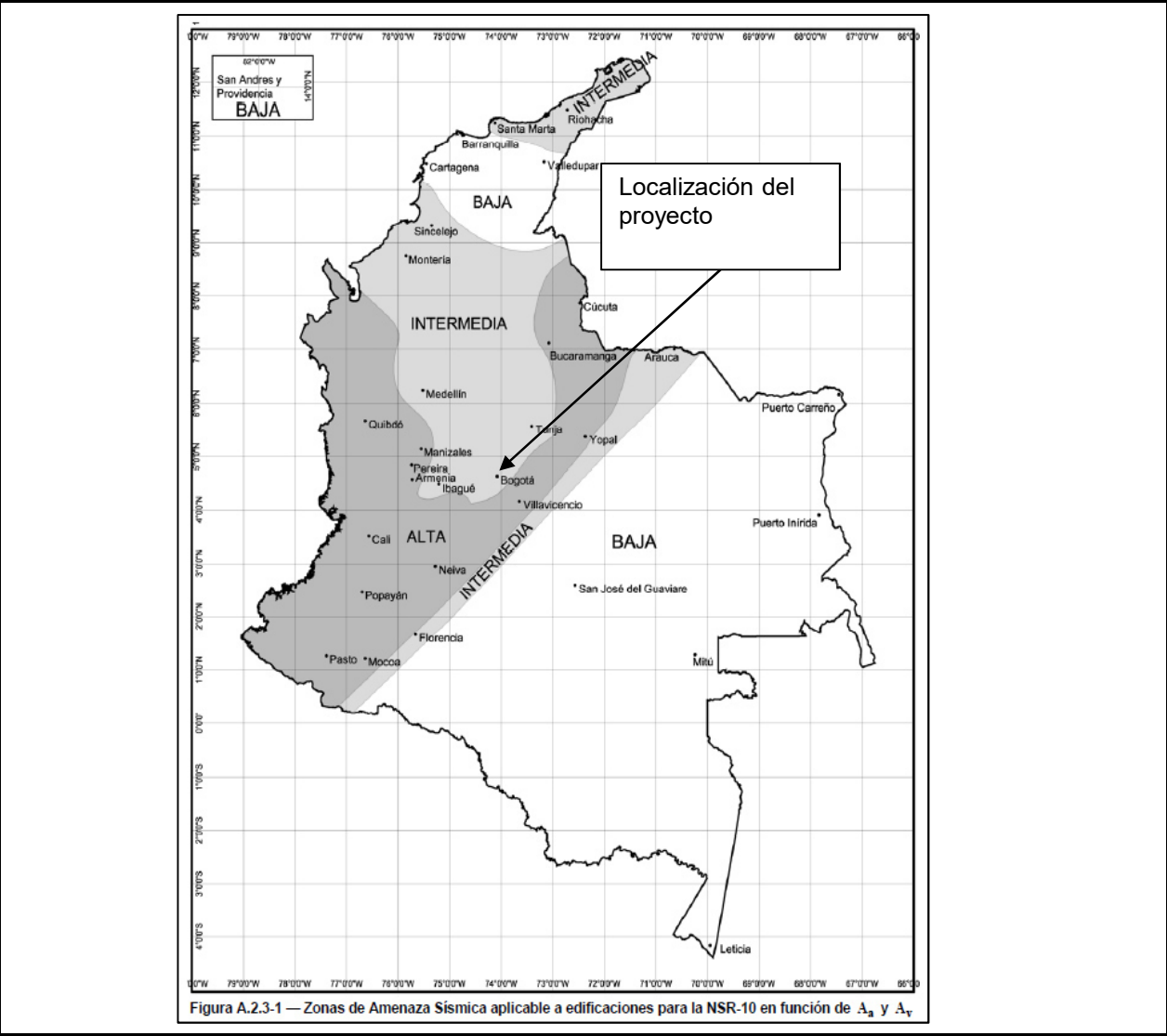
Ocupación	Carga (kN)
Parqueaderos	3.00

3

OBTENCIÓN DEL NIVEL DE
AMENAZA SÍSMICA Y
LOS VALORES

3. OBTENCIÓN DEL NIVEL DE AMENAZA SISMICA Y LOS VALORES Aa y Av

LOCALIZACIÓN EN EL MAPA DE MICROZONIFICACIÓN SISMICA



ZONA DE RESPUESTA SÍSMICA

Aluvial 300

VALORES Aa y Av

Ciudad	Bogotá D.C
Aa	0.15
Av	0.20

4

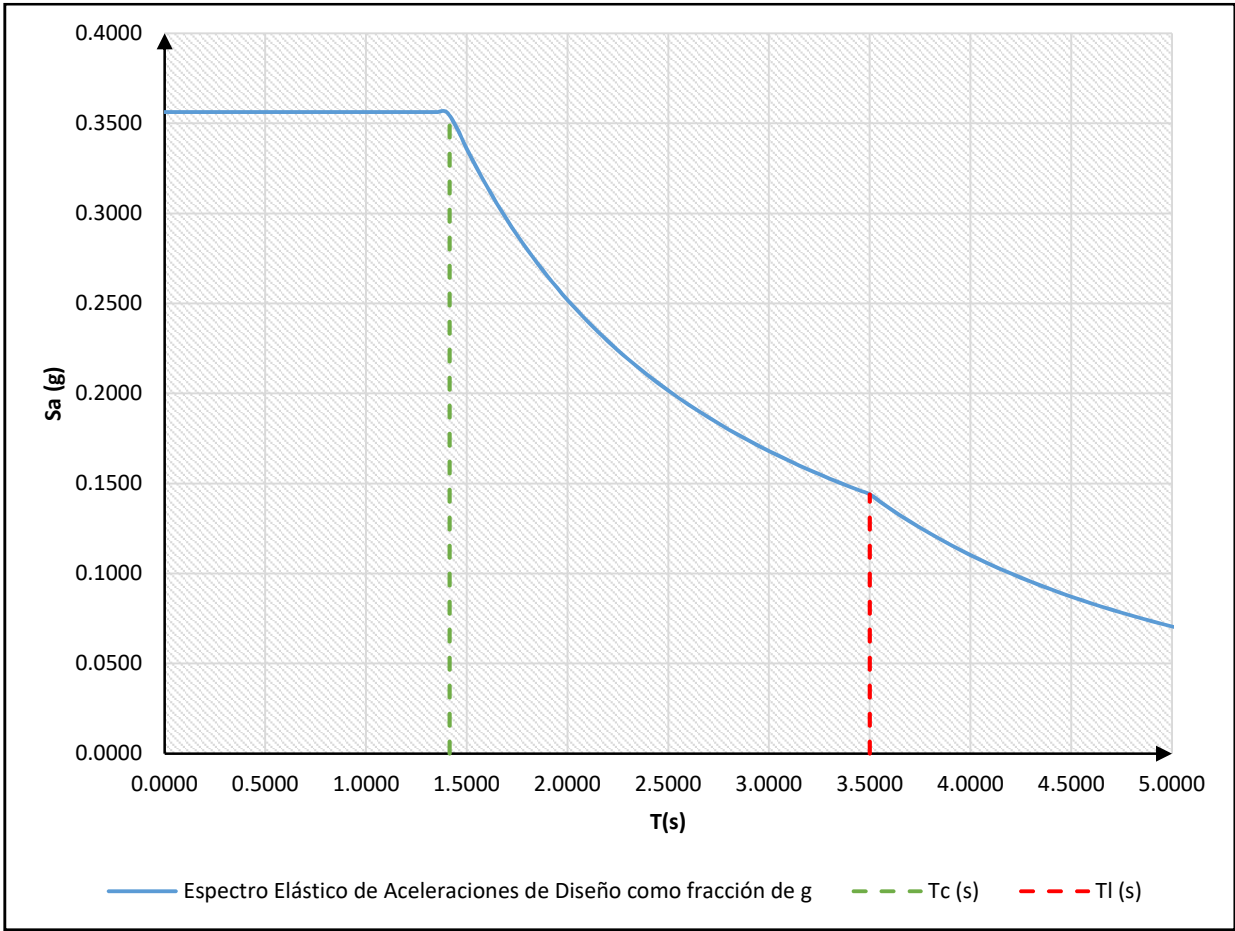
MOVIMIENTO SÍSMICO DE DISEÑO

4. MOVIMIENTOS SÍSMICOS EN LA BASE

PROYECTO: San Juan de Castilla
LOCALIZACIÓN: Calle 7a No 87b-90
ZONA DE AMENAZA SISMICA: Moderada
ESPECTRO DE ACELERACIONES: Microzonifiación sísmica de bogota

PARAMETROS DE DISEÑO	
Aa : Coeficiente que representa la aceleración pico efectiva, para diseño	0.15
Av : Coeficiente que representa la velocidad horizontal pico efectiva, para diseño	0.20
Ao : Aceleración horizontal pico efectiva del terreno en superficie (g)	0.14
Fa : Coeficiente de amplificación que afecta la aceleración en la zona de periodos cortos	0.95
Fv : Coeficiente de amplificación que afecta la acelación en la zona de periodos intermedios	2.10
I : Coeficiente de Importancia	1.00

ESPECTRO ELASTICO DE ACELERACIONES DE DISEÑO COMO FRACCIÓN DE G



Periodo Corto	
Tc (s)	1.41

Periodo Largo	
TI (s)	3.50

5

CARACTERÍSTICAS DE LA ESTRUCTURA
Y DEL MATERIAL ESTRUCTURAL
EMPLEADO

5. CARACTERISTICAS DE LA ESTRUCTURA Y DEL MATERIAL EMPLEADO**SISTEMA ESTRUCTURAL**

El sistema estructural de resistencia sísmica de la edificación se clasifica dentro de uno de los sistemas estructurales prescritos en el Capítulo A.3

SENTIDO X

- Sistema de resistencia de sísmica :

Porticos resistentes a momentos con capacidad moderada de disipación de energía (DMO) de concreto.

- Coeficiente de capacidad de disipación de energía :

$$R_o = 5.0$$

- Coeficiente de sobrerresistencia :

$$\Omega_o = 3.0$$

SENTIDO Y

- Sistema de resistencia de sísmica :

Porticos resistentes a momentos con capacidad moderada de disipación de energía (DMO) de concreto.

- Coeficiente de capacidad de disipación de energía :

$$R_o = 5.0$$

- Coeficiente de sobrerresistencia :

$$\Omega_o = 3.0$$

6

GRADO DE IRREGULARIDAD DE LA ESTRUCTURA

6. GRADO DE IRREGULARIDAD DE LA ESTRUCTURA**IRREGULARIDADES EN PLANTA**

Tipo	Descripción	Existencia	ϕ_p
1aP	Irregularidad torsional	NO	1.00
1bP	Irregularidad torsional extrema	NO	1.00
2P	Retrocesos excesivos en las esquinas	NO	1.00
3P	Discontinuidades en el diafragma	NO	1.00
4P	Desplazamiento del plano de acción	NO	1.00
5P	Sistemas no paralelos	NO	1.00

 $\phi_p = 1.00$ **IRREGULARIDADES EN ALTURA**

Tipo	Descripción	Existencia	ϕ_p
1aA	Irregularidad en rigidez	NO	1.00
1bA	Irregularidad extrema en rigidez	NO	1.00
2A	Distribución de masa	NO	1.00
3A	Irregularidad geométrica	NO	1.00
4A	Desplazamiento dentro del plano de acción	NO	1.00
5aA	Discontinuidad en la resistencia	NO	1.00
5bA	Discontinuidad extrema en la resistencia	NO	1.00

 $\phi_a = 1.00$ **AUSENCIA DE REDUNDANCIA** $\phi_R = 1.00$

Nota: Teniendo en cuenta que la estructura se encuentra en una zona de amenaza sísmica intermedia y pertenece al grupo de uso I. La evaluación para determinar si la edificación es irregular o no, se limitó a las irregularidades en planta de los tipos 1aP, 1bP, 3P y 4P y en altura de los tipos 4A, 5aA y 5bA.

7

DETERMINACIÓN DE LAS FUERZAS SÍSMICAS

7. DETERMINACIÓN DE LAS FUERZAS SÍSMICASTa = Periodo de vibración fundamental aproximado (s) A.4.2-2

Sistema estructural

1

Pórtico resistente a momento de concreto de concreto reforzado que resisten la totalidad de las fuerzas sísmicas y que no están limitados o adheridos a componentes mas rígidos, estructurales o no estructurales al verse sometidos a fuerzas sísmicas.

h (m)	3.00
Ct	0.047
α	0.90
Ta (s)	0.13

h(m): Altura de la estructura

Tmax = Cu*Ta : Periodo máximo permisible de la estructura (s) A.4.2.1

Cu	1.25
Tmax (s)	0.16

FUERZA SÍSMICA HORIZONTAL EQUIVALENTE SENTIDO XPeriodo calculado para obtener las fuerzas sísmicas de diseño:

Tx (s)	0.349
--------	-------

T>Tmax

Máxima aceleración horizontal de diseño

Sax (g)	0.36
---------	------

Debido a que T>Tmax

K : Coeficiente relación con el periodo fundamental (A.4.3.2)

K	1.00
---	------

Vsx = Sa*w : Cortante sísmico en la base en sentido x

Vsx (kN) 5,211

Distribción de fuerzas por cada nivel

Piso	W (kN)	h (m)	Cvx	Fx (kN)	Vx (kN)
Piso 2	14,629	3.00	100%	5,211	5,211
Σ	14,629	Σ	100%		

7. DETERMINACIÓN DE LAS FUERZAS SÍSMICASTa = Periodo de vibración fundamental aproximado (s) A.4.2-2

Sistema estructural

1

Pórtico resistente a momento de concreto de concreto reforzado que resisten la totalidad de las fuerzas sísmicas y que no están limitados o adheridos a componentes mas rígidos, estructurales o no estructurales al verse sometidos a fuerzas sísmicas.

h (m)	3.00
Ct	0.047
α	0.90
Ta (s)	0.13

h(m): Altura de la estructura

Tmax = Cu*Ta : Periodo máximo permisible de la estructura (s) A.4.2.1

Cu	1.25
Tmax (s)	0.16

FUERZA SÍSMICA HORIZONTAL EQUIVALENTE SENTIDO YPeriodo calculado para obtener las fuerzas sísmicas de diseño:

Ty (s)	0.340
--------	-------

T>Tmax

Máxima aceleración horizontal de diseño

Sax (g)	0.36
---------	------

Debido a que T>Tmax

K : Coeficiente relación con el periodo fundamental (A.4.3.2)

K	1.00
---	------

Vsx = Sa*w : Cortante sísmico en la base en sentido x

Vsy (kN) 5,211

Distribción de fuerzas por cada nivel

Piso	W (kN)	h (m)	Cvx	Fy (kN)	Vy (kN)
Piso 2	14,629	3.00	100%	5,211	5,211
Σ	14,629	Σ	100%		

7. DETERMINACIÓN DE LAS FUERZAS SISMICAS**ANALISIS MODAL**

Se han incluido en el análisis dinámico todos los modos de vibración que contribuyan de una manera significativa a la respuesta dinamica de la estructura.

Este requisito, se cumple cuando con un numero determinado de modos de vibración que se han incluido en el calculo de la respuesta, de cada una de las direcciones horizontales de análisis, participa por lo menos el 90% de masa de la estructura.

**Verificable con los valores calculados por ETABS 2016.*

AJUSTE DE LOS RESULTADOS

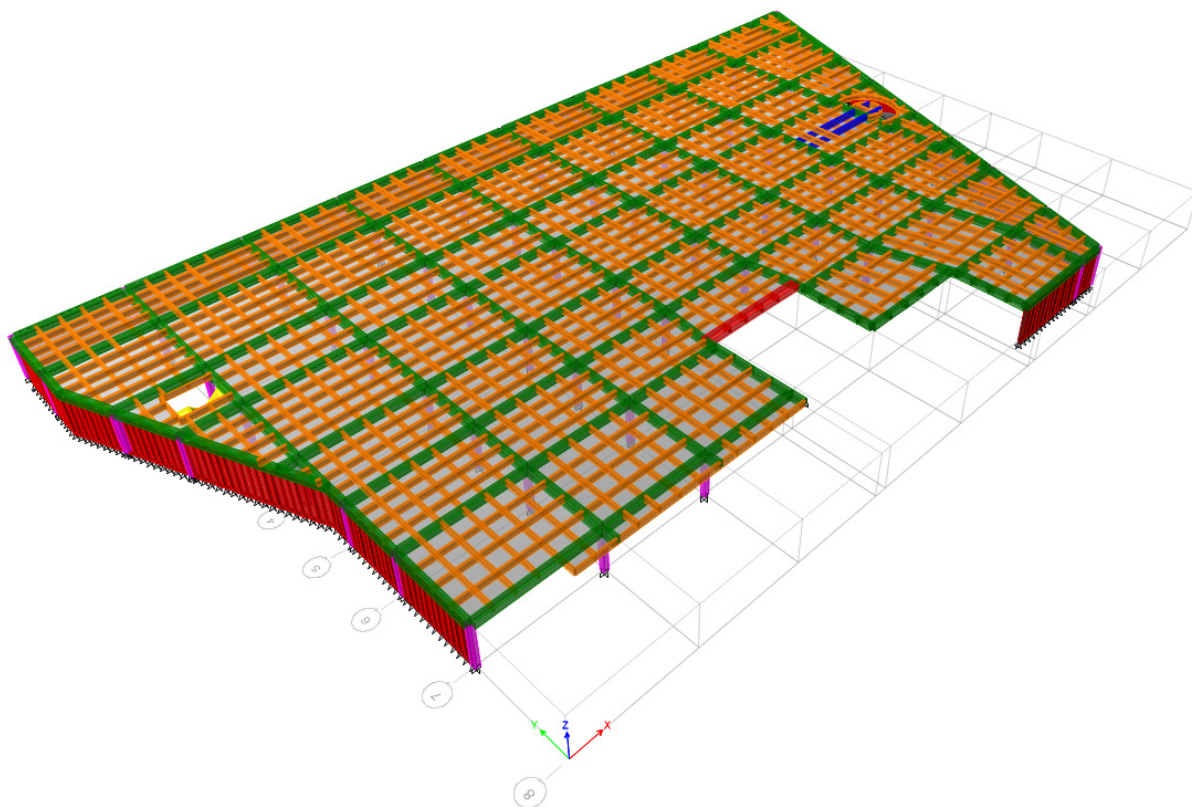
De acuerdo a la evaluación del grado de irregularidad de la estructura se ha determinado que la estructura es regular.

Por lo tanto, el cortante modal en la base debe ser al menos del 80 % de cortante de la FHE.

Sentido	Vs _{F.H.E} (kN)	Vsr _{F.H.E} (kN)	Vsm (kN)	F. Ajuste	x: (mm/s ²)
X	5,211	4,169	4,569	1.00	9810
Y	5,211	4,169	4,555	1.00	9810

8

ANÁLISIS SÍSMICO DE
LA ESTRUCTURA



DATOS DE ENTRADA

SAN JUAN DE CASTILLA
PARQUEADERO

1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Data

Name	Height mm	Elevation mm	Master Story	Similar To	Splice Story
Piso 2	3000	3000	No	None	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.2 - Grid Systems

Name	Type	Story Range	X Origin m	Y Origin m	Rotation deg	Bubble Size mm	Color
G1	Cartesian	Default	0	0	0	1250	ffa0a0a0

Table 1.3 - Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate m
G1	X	A	Yes	End	0
G1	X	B	Yes	End	7.7
G1	X	C	Yes	End	14.7
G1	X	D	Yes	End	20.9
G1	X	D'	Yes	End	21.7
G1	X	E	Yes	End	28.7
G1	X	F	Yes	End	35.7
G1	X	F'	Yes	End	36.5
G1	X	G	Yes	End	42.7
G1	X	G'	Yes	End	43.7
G1	X	H	Yes	End	49.7
G1	X	I	Yes	End	56.7
G1	Y	8	Yes	Start	0
G1	Y	7	Yes	Start	6.36
G1	Y	6	Yes	Start	11.96
G1	Y	5	Yes	Start	16.31
G1	Y	4	Yes	Start	20.66
G1	Y	3	Yes	Start	26.46
G1	Y	2	Yes	Start	30.66
G1	Y	1	Yes	Start	36.46

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - Summary

Name	Type	E MPa	ν	Unit Weight kN/m ³	Design Strengths
A706Gr60	Rebar	199948	0	76.9729	Fy=420 MPa, Fu=551.58 MPa
f _c = 21.1 Mpa	Concrete	21589.33	0.2	24	Fc=21.1 MPa

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
C 30x30	f _c = 21.1 Mpa	Concrete Rectangular
V 12x40	f _c = 21.1 Mpa	Concrete Rectangular
V 20x40	f _c = 21.1 Mpa	Concrete Rectangular
V 40x40	f _c = 21.1 Mpa	Concrete Rectangular
V 60x40	f _c = 21.1 Mpa	Concrete Rectangular

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness mm
Escalera 1	Slab	Shell-Thin	f _c = 21.1 Mpa	200
Escalera 2	Slab	Shell-Thin	f _c = 21.1 Mpa	100
Losa e = 10 cm	Slab	Shell-Thin	f _c = 21.1 Mpa	100
Muro e = 20 cm	Wall	Shell-Thin	f _c = 21.1 Mpa	200

3 Loads

This chapter provides loading information as applied to the model.

3.1 Load Patterns

Table 3.1 - Load Patterns

Name	Type	Self Weight Multiplier
D	Dead	1
L1	Live	0
H	Other	0
G	Roof Live	0

3.2 Load Cases

Table 3.2 - Load Cases - Summary

Name	Type
D	Linear Static
L1	Linear Static
H	Linear Static
G	Linear Static
Sx	Response Spectrum
Sy	Response Spectrum

3.3 Load Combinations

Table 3.3 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
D.01	D	1.4	Linear Add	No
D.02	D	1.2	Linear Add	No
D.02	L1	1.6		No
D.02	G	0.5		No
D.02	H	1.6		No
D.03	D	1.2	Linear Add	No
D.03	L1	1.6		No
D.03	H	1.6		No
D.05	D	1.2	Linear Add	No
D.05	L1	0.5		No
D.05	G	1.6		No
D.17	D	1.2	Linear Add	No
D.17	L1	0.5		No
D.17	Sx	0.2		No
D.18	D	1.2	Linear Add	No
D.18	L1	0.5		No
D.18	Sy	0.2		No
D.19	D	0.9	Linear Add	No
D.19	H	1.6		No
D.21	D	0.9	Linear Add	No
D.21	Sx	0.2		No
D.23	D	0.9	Linear Add	No
D.23	Sy	0.2		No
D.25	D	1.2	Linear Add	No
D.25	L1	0.5		No
D.25	Sx	0.2		No
D.25	Sy	0.06		No

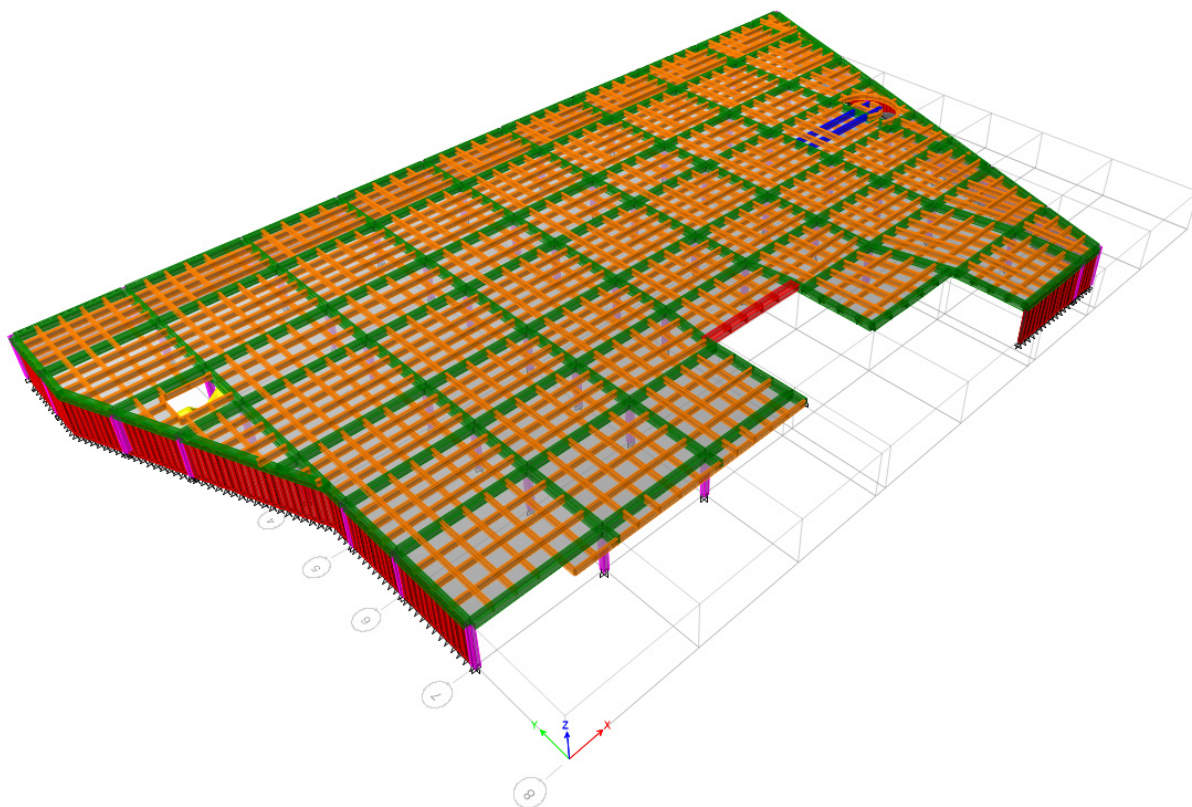
PROYECTO: SAN JUAN DE CASTILLA
ESTRUCTURA: PARQUEADERO

Name	Load Case/Combo	Scale Factor	Type	Auto
D.26	D	1.2	Linear Add	No
D.26	L1	0.5		No
D.26	Sx	0.06		No
D.26	Sy	0.2		No
D.27	D	0.9	Linear Add	No
D.27	H	1.6		No
D.29	D	0.9	Linear Add	No
D.29	Sx	0.2		No
D.29	Sy	0.06		No
D.31	D	0.9	Linear Add	No
D.31	Sx	0.06		No
D.31	Sy	0.2		No
D.33	D	1.2	Linear Add	No
D.33	L1	0.5		No
D.33	Sx	0.4		No
D.34	D	1.2	Linear Add	No
D.34	L1	0.5		No
D.34	Sy	0.4		No
D.35	D	0.9	Linear Add	No
D.35	Sx	0.4		No
D.37	D	0.9	Linear Add	No
D.37	Sy	0.4		No
D.39	D	1.27125	Linear Add	No
D.39	L1	0.5		No
D.39	Sx	0.6		No
D.39	Sy	0.18		No
D.41	D	1.12875	Linear Add	No
D.41	L1	0.5		No
D.41	Sx	0.6		No
D.41	Sy	0.18		No
D.43	D	0.97125	Linear Add	No
D.43	Sx	0.6		No
D.43	Sy	0.18		No
D.45	D	0.97125	Linear Add	No
D.45	Sx	0.18		No
D.45	Sy	0.6		No
D.47	D	0.82875	Linear Add	No
D.47	Sx	0.6		No
D.47	Sy	0.18		No
D.49	D	0.82875	Linear Add	No
D.49	Sx	0.18		No
D.49	Sy	0.6		No
S.01	D	1	Linear Add	No
S.02	D	1	Linear Add	No
S.02	L1	1		No
S.02	H	1		No
S.03	D	1	Linear Add	No
S.03	G	1		No
S.03	H	1		No
S.04	D	1	Linear Add	No
S.04	H	1		No
S.06	D	1	Linear Add	No
S.06	L1	0.75		No
S.06	G	0.75		No
S.06	H	1		No
S.07	D	1	Linear Add	No

PROYECTO: SAN JUAN DE CASTILLA
ESTRUCTURA: PARQUEADERO

Name	Load Case/Combo	Scale Factor	Type	Auto
S.07	L1	0.75		No
S.11	D	1	Linear Add	No
S.11	H	1		No
S.11	Sx	0.14		No
S.12	D	1	Linear Add	No
S.12	H	1		No
S.12	Sy	0.14		No
S.19	D	1	Linear Add	No
S.19	L1	0.75		No
S.19	G	0.75		No
S.19	H	1		No
S.19	Sx	0.105		No
S.20	D	1	Linear Add	No
S.20	L1	0.75		No
S.20	H	1		No
S.20	Sx	0.105		No
S.22	D	1	Linear Add	No
S.22	L1	0.75		No
S.22	G	0.75		No
S.22	H	1		No
S.22	Sy	0.105		No
S.23	D	1	Linear Add	No
S.23	L1	0.75		No
S.23	H	1		No
S.23	Sy	0.105		No
S.25	D	0.6	Linear Add	No
S.25	H	1		No
S.27	D	0.6	Linear Add	No
S.27	H	1		No
S.27	Sx	0.14		No
S.28	D	0.6	Linear Add	No
S.28	H	1		No
S.28	Sy	0.14		No
Condiciones de servicio	S.01	1	Envelope	No
Condiciones de servicio	S.02	1		No
Condiciones de servicio	S.03	1		No
Condiciones de servicio	S.04	1		No
Condiciones de servicio	S.06	1		No
Condiciones de servicio	S.07	1		No
Condiciones de servicio	S.11	1		No
Condiciones de servicio	S.12	1		No
Condiciones de servicio	S.19	1		No
Condiciones de servicio	S.20	1		No
Condiciones de servicio	S.22	1		No
Condiciones de servicio	S.23	1		No
Condiciones de servicio	S.25	1		No
Condiciones de servicio	S.27	1		No

Name	Load Case/Combo	Scale Factor	Type	Auto
Condiciones de servicio	S.28	1		No



ANÁLISIS SÍSMICO

SAN JUAN DE CASTILLA
PARQUEADERO

1 Analysis Results

This chapter provides analysis results.

1.1 Structure Results

Table 1.1 - Base Reactions

Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m	X m	Y m	Z m
D	0	0	14628.6271	366239.5875	-382886.5246	-2.569E-05	0	0	0
Sx Max	4557.5221	321.3249	0	948.8524	13516.2894	103767.8942	0	0	0
Sy Max	321.3253	4543.411	0	13433.1455	944.3753	139010.5339	0	0	0

1.2 Modal Results

Table 1.2 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	0.349	2.865	18.0041	324.1471
Modal	2	0.34	2.943	18.4928	341.9855
Modal	3	0.29	3.448	21.6621	469.2485
Modal	4	0.051	19.545	122.8065	15081.4242

Table 1.3 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	0.349	0.8623	0.0136	0	0.8623	0.0136	0
Modal	2	0.34	0.0259	0.8636	0	0.8883	0.8772	0
Modal	3	0.29	0.0309	0.0487	0	0.9191	0.9259	0
Modal	4	0.051	0.0001	0.0002	0	0.9192	0.9261	0

Table 1.3 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0.002	0.1235	0.0469	0.002	0.1235	0.0469
Modal	2	0.1124	0.0032	0.031	0.1145	0.1267	0.0779
Modal	3	0.0081	0.0036	0.771	0.1226	0.1303	0.8489
Modal	4	0.0016	0.0012	0.0004	0.1242	0.1315	0.8493

Table 1.4 - Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	99.99	91.92
Modal	Acceleration	UY	99.98	92.61
Modal	Acceleration	UZ	0	0

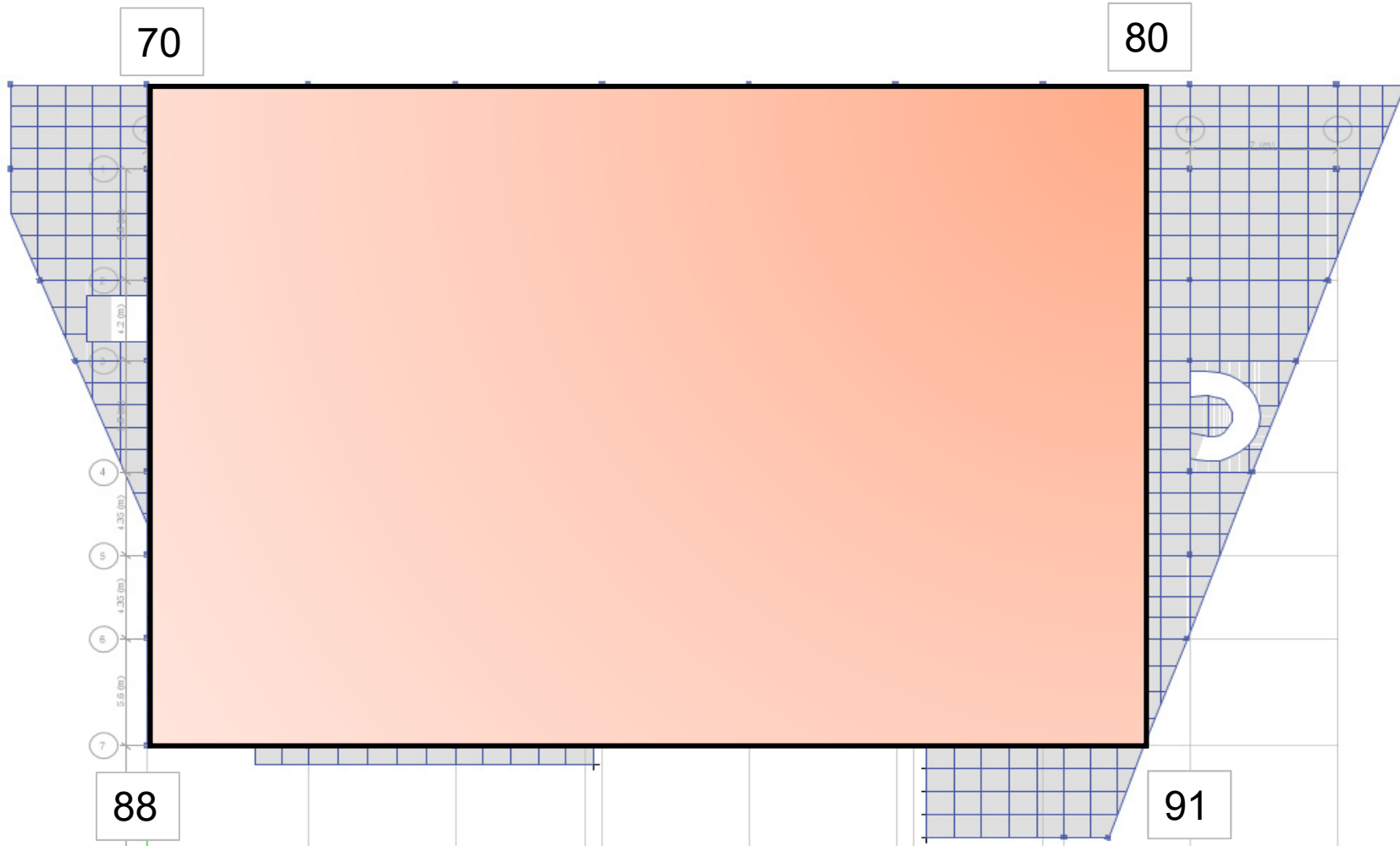
Table 1.5 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0.349	0.939	0.015	0	0.047
Modal	2	0.34	0.028	0.93	0	0.042
Modal	3	0.29	0.034	0.053	0	0.913
Modal	4	0.051	0	0	0	1

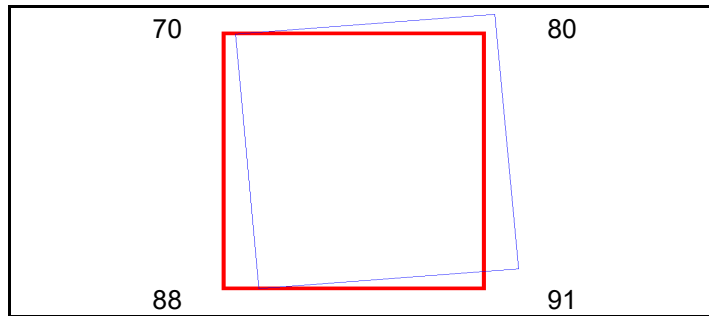
9
DESPLAZAMIENTOS
HORIZONTALES

torsional irregularity

PUNTOS DE EVALUACIÓN DE LA IRREGULARIDAD TORSIONAL



torsional irregularity



Story	Unique Name	Load Case/Combo	UX mm	UY mm
Piso 2	706	Sx Max	9.34	2.99
Piso 2	734	Sx Max	9.34	2.31
Piso 2	706	Sy Max	2.43	8.09
Piso 2	734	Sy Max	2.43	12.13

Sy Max ΔY	
$\Delta 1$ (mm) =	12.13
$\Delta 2$ (mm) =	8.09
$1.4 * (\Delta 1 + \Delta 2) / 2$	14.15
$1.2 * (\Delta 1 + \Delta 2) / 2$	12.13
ϕ_p	1.00

Story	Unique Name	Load Case/Combo	UX mm	UY mm
Piso 2	734	Sx Max	9.34	2.31
Piso 2	758	Sx Max	12.07	2.10
Piso 2	734	Sy Max	2.43	12.13
Piso 2	758	Sy Max	1.81	11.92

Sx Max ΔX	
$\Delta 1$ (mm) =	12.07
$\Delta 2$ (mm) =	9.34
$1.4 * (\Delta 1 + \Delta 2) / 2$	14.98
$1.2 * (\Delta 1 + \Delta 2) / 2$	12.84
ϕ_p	1.00

Story	Unique Name	Load Case/Combo	UX mm	UY mm
Piso 2	706	Sx Max	9.34	2.99
Piso 2	680	Sx Max	12.07	2.99
Piso 2	706	Sy Max	2.43	7.97
Piso 2	680	Sy Max	1.81	7.97

Sx Max ΔX	
$\Delta 1$ (mm) =	12.07
$\Delta 2$ (mm) =	9.34
$1.4 * (\Delta 1 + \Delta 2) / 2$	14.98
$1.2 * (\Delta 1 + \Delta 2) / 2$	12.84
ϕ_p	1.00

Story	Unique Name	Load Case/Combo	UX mm	UY mm
Piso 2	680	Sx Max	12.07	2.99
Piso 2	758	Sx Max	12.07	2.10
Piso 2	680	Sy Max	1.81	7.97
Piso 2	758	Sy Max	1.81	11.92

Sy Max ΔY	
$\Delta 1$ (mm) =	11.92
$\Delta 2$ (mm) =	7.97
$1.4 * (\Delta 1 + \Delta 2) / 2$	13.92
$1.2 * (\Delta 1 + \Delta 2) / 2$	11.93
ϕ_p	1.00

ϕ_p	1.00
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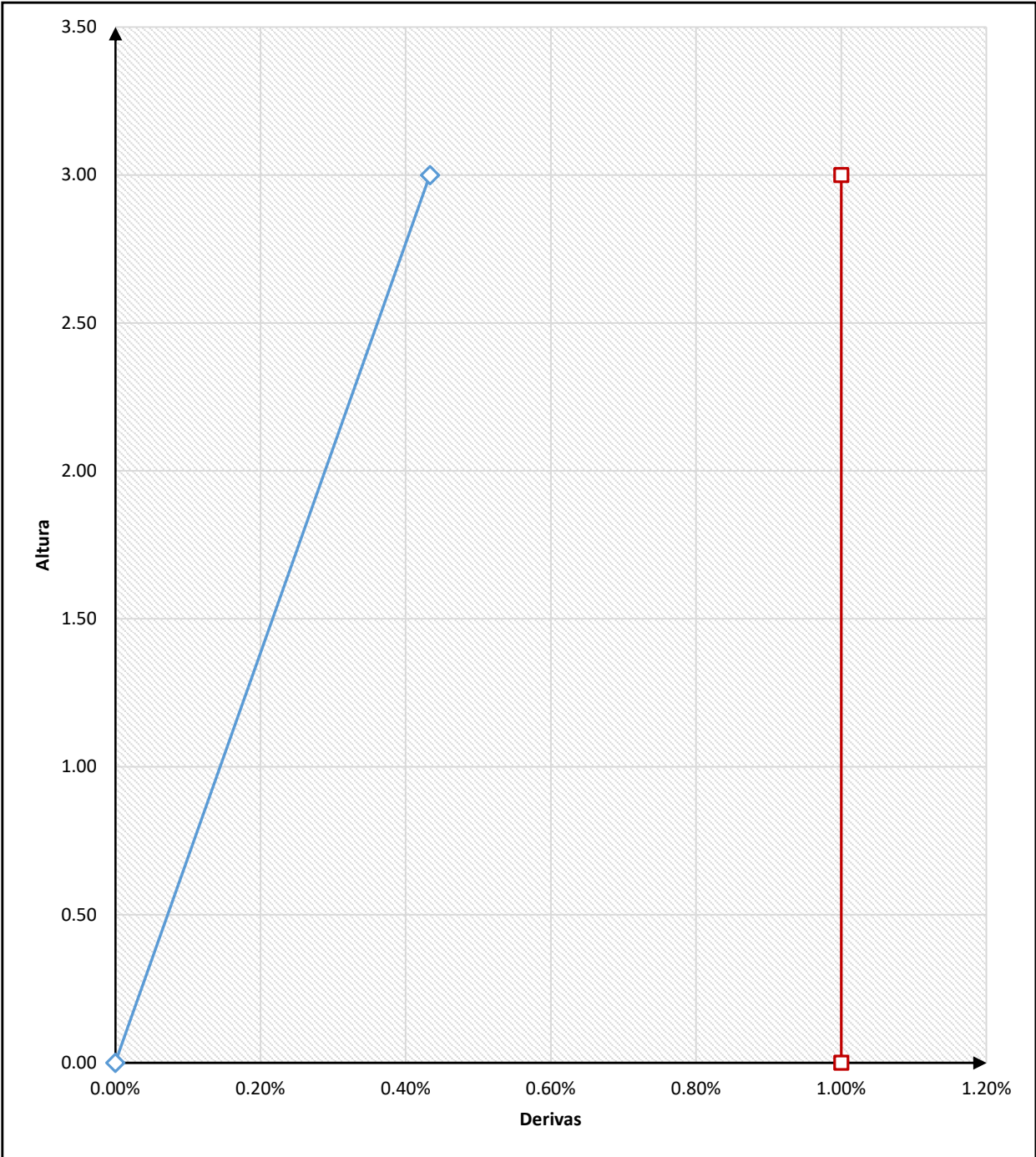
Tipo 1aP — Irregularidad torsional $\phi_p = 0.9$ $1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) \geq \Delta_1 > 1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$	Tipo 1bP — Irregularidad torsional extrema $\phi_p = 0.8$ $\Delta_1 > 1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$

10
VERIFICACIÓN DE
DERIVAS

10. VERIFICACIÓN DE DERIVAS

Caso: Sx					
Piso	H (m)	Δx (%)	Δy (%)	ΔT (%)	Chequeo
Base	0.00	0.00%	0.00%	0.00%	
Piso 2	3.00	0.42%	0.12%	0.43%	Ok

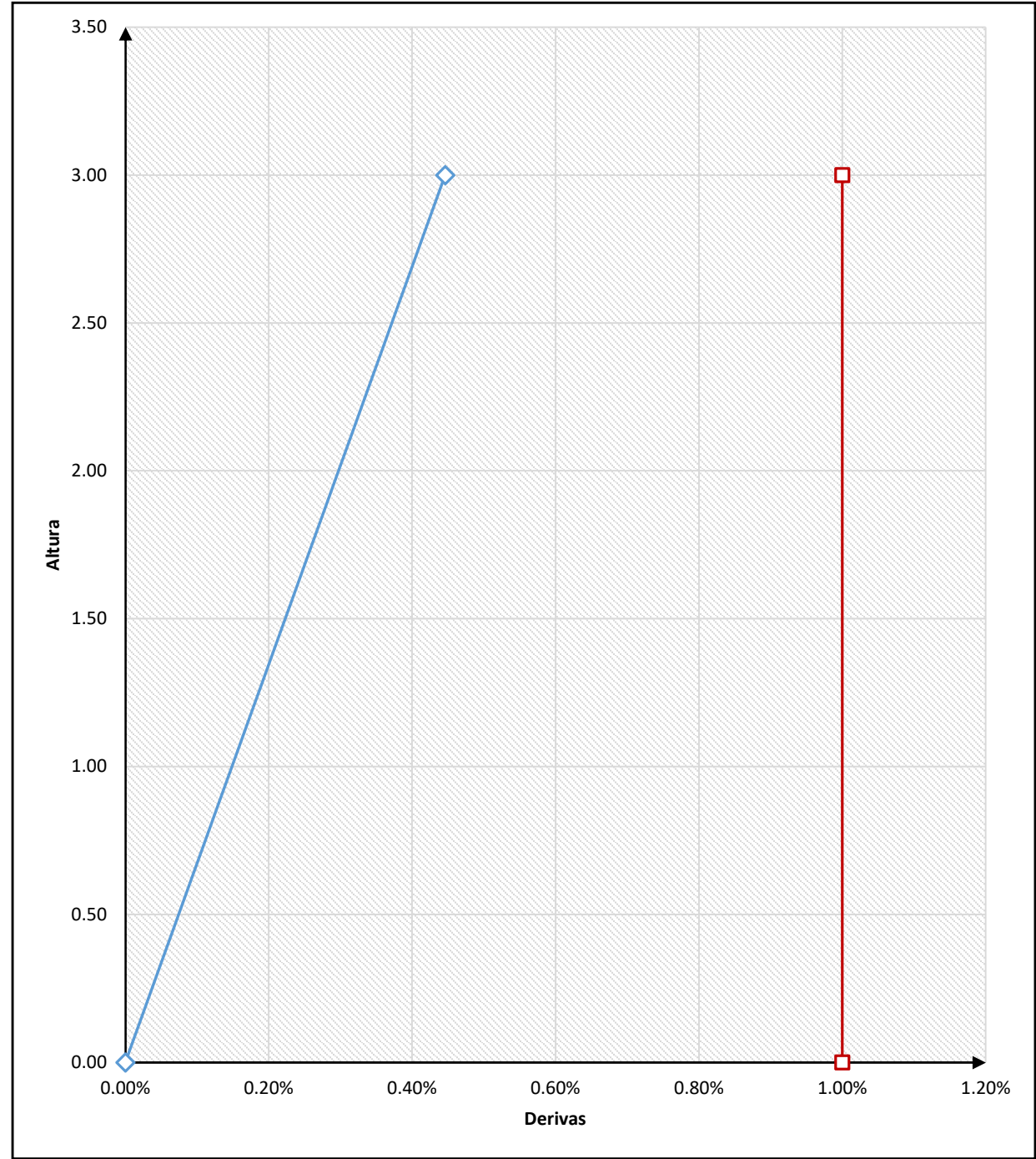
Der Max : 1.00%



10. VERIFICACIÓN DE DERIVAS

Caso: Sy					
Piso	H (m)	Ux (mm)	Uy (mm)	Δ (%)	Chequeo
Base	0.00	0.00%	0.00%	0.00%	
Piso 2	3.00	0.08%	0.44%	0.45%	Ok

Der Max: 1.00%



11

COMBINACIÓN DE LAS
DIFERENTES SOLICITACIONES

11. COMBINACIONES DE LAS DIFERENTES SOLICITACIONES**CASOS DE CARGA**

Nomeclatura	Descripción	Existencia
D	Carga muerta	SI
F	Carga debida al peso y presión de fluidos	NO
L1	Carga viva debida al ocupación de la edificación menor 4.80 kN/m	SI
L2	Carga viva debida al ocupación de la edificación mayor 4.80 kN/m	NO
G	Carga debida al granizo	SI
Le	Carga de empozamiento de agua	NO
Lr	Carga viva sobre la cubierta	NO
H	Cargas debidas al empuje lateral	SI
T	Fuerzas y efectos causados por variación de la temperatura	NO
W	Carga de viento	NO

* Factor de carga viva menor a 480 kN/m² F.A = 0.50

FUERZAS SÍSMICAS DE DISEÑO

$E = F_s / R$ Donde; $R = R_o \cdot \phi_p \cdot \phi_a \cdot \phi_r$

Capacidad de disipación de energía de la estructura

Rox =	5.00	Roy =	5.00
Ω_{ox} =	3.00	Ω_{oy} =	3.00

ϕ_p = 1.00

ϕ_a = 1.00

ϕ_r = 1.00

Rx =	5.00	Ry =	5.00
1/Rx =	0.20	1/Ry =	0.20

Factores relacionados con la amplificación mediante Ω

Aa	0.15
Fa	0.95

11. COMBINACIONES DE LAS DIFERENTES SOLICITACIONES**COMBINACIONES DE DISEÑO**

combo	D	F	L1	L2	G	Le	Lr	H	T	Wx	Wy	Sx	Sy
D.01	1.4												
D.02	1.2		1.6		0.5			1.6					
D.03	1.2		1.6					1.6					
D.04	1.2		1.6					1.6					
D.05	1.2		0.5		1.6								
D.06	1.2		0.5										
D.07	1.2		0.5										
D.08	1.2		0.5		1.6								
D.09	1.2		0.5										
D.10	1.2		0.5										
D.11	1.2		0.5		0.5								
D.12	1.2		0.5										
D.13	1.2		0.5										
D.14	1.2		0.5		0.5								
D.15	1.2		0.5										
D.16	1.2		0.5										
D.17	1.2		0.5									0.20	
D.18	1.2		0.5										0.20
D.19	0.9							1.6					
D.20	0.9							1.6					
D.21	0.9											0.20	
D.22	0.9											0.20	
D.23	0.9												0.20
D.24	0.9												0.20
D.25	1.2		0.5									0.20	0.06
D.26	1.2		0.5									0.06	0.20
D.27	0.9							1.6					
D.28	0.9							1.6					
D.29	0.9											0.20	0.06
D.30	0.9											0.20	0.06
D.31	0.9											0.06	0.20
D.32	0.9											0.06	0.20

11. COMBINACIONES DE LAS DIFERENTES SOLICITACIONES**COMBINACIONES CON SOBRERESISTENCIA**

combo	D	F	L1	L2	G	Le	Lr	H	T	Wx	Wy	Sx	Sy
D.33	1.2		0.5									0.40	
D.34	1.2		0.5										0.40
D.35	0.9											0.40	
D.36	0.9											0.40	
D.37	0.9												0.40
D.38	0.9												0.40
D.39	1.27		0.5									0.60	0.18
D.40	1.27		0.5									0.18	0.60
D.41	1.13		0.5									0.60	0.18
D.42	1.13		0.5									0.18	0.60
D.43	0.97											0.60	0.18
D.44	0.97											0.60	0.18
D.45	0.97											0.18	0.60
D.46	0.97											0.18	0.60
D.47	0.83											0.60	0.18
D.48	0.83											0.60	0.18
D.49	0.83											0.18	0.60
D.50	0.83											0.18	0.60

Nota:

- Las combinaciones de D.01 a D.24 son para el diseño a flexión de vigas y muros estructurales.
- Las combinaciones de D.01 a D.16 y D.25 a D.32 son para el diseño a flexo-compresión de columnas.
- Las combinaciones de D.33 a D.38 son para revisar el cortante en vigas.
- Las combinaciones de D.39 a D.50 son para revisar el cortante en columnas.
en concreto.

11. COMBINACIONES DE LAS DIFERENTES SOLICITACIONES**COMBINACIONES DE SERVICIO**

combo	D	F	L1	L2	G	Le	Lr	H	T	Wx	Wy	Sx	Sy
S.01	1												
S.02	1		1					1					
S.03	1				1			1					
S.04	1							1					
S.05	1							1					
S.06	1		0.75		0.75			1					
S.07	1		0.75					1					
S.08	1		0.75					1					
S.09	1							1					
S.10	1							1					
S.11	1							1				0.14	
S.12	1							1					0.14
S.13	1		0.75		0.75			1					
S.14	1		0.75					1					
S.15	1		0.75					1					
S.16	1		0.75		0.75			1					
S.17	1		0.75					1					
S.18	1		0.75					1					
S.19	1		0.75		0.75			1				0.11	
S.20	1		0.75					1				0.11	
S.21	1		0.75					1				0.11	
S.22	1		0.75		0.75			1					0.11
S.23	1		0.75					1					0.11
S.24	1		0.75					1					0.11
S.25	0.6							1					
S.26	0.6							1					
S.27	0.6							1				0.14	
S.28	0.6							1					0.14

12

DISEÑO DE ELEMENTOS ESTRUCTURALES

12.1 DISEÑO DE VIGAS

PARQUEADERO SAN JUAN DE CASTILLA

V-201/Piso 2

B=0.40 H=0.40 L=6.10					B=0.40 H=0.40 L=7.30				
Mu=-18.81 As =5.94 As(r)=4.62	Mu=-14.20 As =5.94 As(r)=4.62	Mu=-14.20 As =6.55 As(r)=4.62	Mu=-14.20 As =5.94 As(r)=4.62	Mu=-70.99 As =5.94 As(r)=5.63	Mu=-72.83 As =5.94 As(r)=5.79	Mu=-14.57 As =5.94 As(r)=4.62	Mu=-14.57 As =5.94 As(r)=4.62	Mu=-14.57 As =5.94 As(r)=4.62	Mu=-66.00 As =5.94 As(r)=5.22
Mu=14.20 As =5.94 As(r)=4.62	Mu=27.88 As =5.94 As(r)=4.62	Mu=37.48 As =5.94 As(r)=4.62	Mu=23.66 As =5.94 As(r)=4.62	Mu=23.66 As =5.94 As(r)=4.62	Mu=24.28 As =5.94 As(r)=4.62	Mu=24.28 As =5.94 As(r)=4.62	Mu=42.97 As =5.94 As(r)=4.62	Mu=22.00 As =5.94 As(r)=4.62	Mu=22.00 As =5.94 As(r)=4.62
Vu=-34.60		Vu=11.51		Vu=50.80	Vu=-51.89		Vu=-5.41		Vu=50.02

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-63.40 As =5.94 As(r)=5.00	Mu=-12.68 As =5.94 As(r)=4.62	Mu=-12.68 As =5.94 As(r)=4.62	Mu=-12.68 As =5.94 As(r)=4.62	Mu=-54.18 As =5.94 As(r)=4.62	Mu=-56.01 As =5.94 As(r)=4.62	Mu=-11.39 As =5.94 As(r)=4.62	Mu=-11.39 As =5.94 As(r)=4.62	Mu=-11.39 As =5.94 As(r)=4.62	Mu=-56.96 As =5.94 As(r)=4.62
Mu=21.13 As =5.94 As(r)=4.62	Mu=21.13 As =5.94 As(r)=4.62	Mu=28.70 As =5.94 As(r)=4.62	Mu=18.06 As =5.94 As(r)=4.62	Mu=18.06 As =5.94 As(r)=4.62	Mu=18.67 As =5.94 As(r)=4.62	Mu=18.67 As =5.94 As(r)=4.62	Mu=31.96 As =5.94 As(r)=4.62	Mu=18.99 As =5.94 As(r)=4.62	Mu=18.99 As =5.94 As(r)=4.62
Vu=-44.73		Vu=-3.37		Vu=42.38	Vu=-43.96		Vu=2.82		Vu=44.09

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-57.74 As =5.94 As(r)=4.62	Mu=-11.55 As =5.94 As(r)=4.62	Mu=-11.55 As =5.94 As(r)=4.62	Mu=-11.55 As =5.94 As(r)=4.62	Mu=-56.31 As =5.94 As(r)=4.62	Mu=-57.30 As =5.94 As(r)=4.62	Mu=-11.46 As =6.55 As(r)=4.62	Mu=-11.46 As =5.94 As(r)=4.62	Mu=-11.46 As =5.94 As(r)=4.62	Mu=-56.67 As =5.94 As(r)=4.62
Mu=19.25 As =5.94 As(r)=4.62	Mu=19.25 As =5.94 As(r)=4.62	Mu=31.27 As =5.94 As(r)=4.62	Mu=18.77 As =5.94 As(r)=4.62	Mu=18.77 As =5.94 As(r)=4.62	Mu=19.10 As =5.94 As(r)=4.62	Mu=19.10 As =5.94 As(r)=4.62	Mu=31.35 As =7.18 As(r)=4.62	Mu=18.89 As =5.94 As(r)=4.62	Mu=18.89 As =5.94 As(r)=4.62
Vu=-44.18		Vu=2.59		Vu=43.71	Vu=-44.09		Vu=2.66		Vu=43.83

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-57.75 As =5.94 As(r)=4.62	Mu=-11.55 As =5.94 As(r)=4.62	Mu=-11.55 As =5.94 As(r)=4.62	Mu=-11.55 As =5.94 As(r)=4.62	Mu=-55.64 As =5.94 As(r)=4.62	Mu=-56.03 As =5.94 As(r)=4.62	Mu=-12.05 As =5.94 As(r)=4.62	Mu=-12.05 As =5.94 As(r)=4.62	Mu=-12.05 As =5.94 As(r)=4.62	Mu=-60.25 As =5.94 As(r)=4.74
Mu=19.25 As =5.94 As(r)=4.62	Mu=19.25 As =5.94 As(r)=4.62	Mu=31.72 As =5.94 As(r)=4.62	Mu=18.55 As =5.94 As(r)=4.62	Mu=18.55 As =5.94 As(r)=4.62	Mu=18.68 As =5.94 As(r)=4.62	Mu=18.68 As =5.94 As(r)=4.62	Mu=29.82 As =5.94 As(r)=4.62	Mu=20.08 As =5.94 As(r)=4.62	Mu=20.08 As =5.94 As(r)=4.62
Vu=-44.33		Vu=2.53		Vu=43.67	Vu=-43.28		Vu=3.18		Vu=44.25

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=2.75				
Mu=-63.39 As =5.94 As(r)=5.00	Mu=-12.68 As =5.94 As(r)=4.62	Mu=-12.68 As =5.94 As(r)=4.62	Mu=-12.68 As =5.94 As(r)=4.62	Mu=-45.58 As =5.94 As(r)=4.62	Mu=-42.10 As =5.94 As(r)=4.62	Mu=-21.43 As =5.94 As(r)=4.62	Mu=-8.42 As =5.94 As(r)=4.62	Mu=-8.42 As =5.94 As(r)=4.62	Mu=-8.48 As =5.94 As(r)=4.62
Mu=21.13 As =5.94 As(r)=4.62	Mu=21.13 As =5.94 As(r)=4.62	Mu=38.67 As =5.94 As(r)=4.62	Mu=15.19 As =5.94 As(r)=4.62	Mu=15.19 As =5.94 As(r)=4.62	Mu=14.03 As =5.94 As(r)=4.62	Mu=8.42 As =5.94 As(r)=4.62	Mu=8.42 As =5.94 As(r)=4.62	Mu=9.92 As =6.09 As(r)=4.62	Mu=12.54 As =5.94 As(r)=4.62
Vu=-48.08		Vu=-3.99		Vu=44.27	Vu=-37.12		Vu=-19.24		Vu=14.52

PARQUEADERO SAN JUAN DE CASTILLA

V-202/Piso 2

B=0.40 H=0.40 L=6.10					B=0.40 H=0.40 L=7.30				
Mu=-33.81 As =5.94 As(r)=4.62	Mu=-27.71 As =5.94 As(r)=4.62	Mu=-27.71 As =7.26 As(r)=4.62	Mu=-27.71 As =10.92 As(r)=5.29	Mu=-138.54 As =12.51 As(r)=11.60	Mu=-143.40 As =12.51 As(r)=12.06	Mu=-28.68 As =5.94 As(r)=4.62	Mu=-28.68 As =6.81 As(r)=4.62	Mu=-28.68 As =12.51 As(r)=4.62	Mu=-137.67 As =11.64 As(r)=11.52
Mu=27.71 As =5.94 As(r)=4.62	Mu=44.88 As =5.94 As(r)=4.78	Mu=65.06 As =5.94 As(r)=5.61	Mu=46.18 As =5.94 As(r)=4.62	Mu=46.18 As =6.81 As(r)=4.62	Mu=47.80 As =6.81 As(r)=4.62	Mu=47.80 As =5.94 As(r)=4.62	Mu=79.92 As =5.94 As(r)=6.38	Mu=45.89 As =6.81 As(r)=4.62	Mu=45.89 As =6.81 As(r)=4.62
Vu=-73.63		Vu=12.85		Vu=119.08	Vu=-125.08		Vu=-9.91		Vu=122.52

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-131.01 As =11.64 As(r)=10.90	Mu=-26.20 As =5.94 As(r)=4.67	Mu=-26.20 As =5.94 As(r)=4.62	Mu=-26.20 As =12.51 As(r)=4.62	Mu=-115.38 As =9.90 As(r)=9.48	Mu=-117.30 As =9.90 As(r)=9.65	Mu=-23.92 As =5.94 As(r)=4.62	Mu=-23.92 As =5.94 As(r)=4.62	Mu=-23.92 As =12.51 As(r)=4.62	Mu=-119.61 As =9.90 As(r)=9.86
Mu=43.67 As =6.81 As(r)=4.62	Mu=43.67 As =5.94 As(r)=4.62	Mu=57.36 As =5.94 As(r)=4.62	Mu=38.46 As =6.81 As(r)=4.62	Mu=38.46 As =5.94 As(r)=4.62	Mu=39.10 As =5.94 As(r)=4.62	Mu=39.10 As =5.94 As(r)=4.62	Mu=61.92 As =5.94 As(r)=4.88	Mu=39.87 As =6.81 As(r)=4.62	Mu=39.87 As =5.94 As(r)=4.62
Vu=-111.28		Vu=-3.24		Vu=105.56	Vu=-107.94		Vu=2.15		Vu=108.67

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-119.98 As =9.90 As(r)=9.89	Mu=-24.00 As =5.94 As(r)=4.62	Mu=-24.00 As =5.94 As(r)=4.62	Mu=-24.00 As =12.51 As(r)=4.62	Mu=-118.71 As =9.90 As(r)=9.78	Mu=-119.36 As =9.90 As(r)=9.83	Mu=-23.87 As =7.26 As(r)=4.62	Mu=-23.87 As =5.94 As(r)=4.62	Mu=-23.87 As =12.51 As(r)=4.62	Mu=-119.08 As =9.90 As(r)=9.81
Mu=39.99 As =5.94 As(r)=4.62	Mu=39.99 As =5.94 As(r)=4.62	Mu=61.00 As =5.94 As(r)=4.80	Mu=39.57 As =6.81 As(r)=4.62	Mu=39.57 As =5.94 As(r)=4.62	Mu=39.79 As =5.94 As(r)=4.62	Mu=39.79 As =5.94 As(r)=4.62	Mu=61.12 As =6.83 As(r)=4.81	Mu=39.69 As =6.81 As(r)=4.62	Mu=39.69 As =5.94 As(r)=4.62
Vu=-108.58		Vu=-1.87		Vu=108.01	Vu=-108.39		Vu=1.92		Vu=108.18

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-119.82 As =9.90 As(r)=9.88	Mu=-23.96 As =6.81 As(r)=4.62	Mu=-23.96 As =5.94 As(r)=4.62	Mu=-23.96 As =12.51 As(r)=4.62	Mu=-117.76 As =9.90 As(r)=9.69	Mu=-117.72 As =9.90 As(r)=9.69	Mu=-24.64 As =6.81 As(r)=4.62	Mu=-24.64 As =5.94 As(r)=4.62	Mu=-24.64 As =12.51 As(r)=4.62	Mu=-123.22 As =9.90 As(r)=10.19
Mu=39.94 As =5.94 As(r)=4.62	Mu=39.94 As =5.94 As(r)=4.62	Mu=61.45 As =8.15 As(r)=4.84	Mu=39.25 As =6.81 As(r)=4.62	Mu=39.25 As =5.94 As(r)=4.62	Mu=39.24 As =5.94 As(r)=4.62	Mu=39.24 As =5.94 As(r)=4.62	Mu=59.25 As =6.81 As(r)=4.66	Mu=41.07 As =6.81 As(r)=4.62	Mu=41.07 As =5.94 As(r)=4.62
Vu=-108.66		Vu=-1.94		Vu=107.79	Vu=-107.12		Vu=2.42		Vu=108.68

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=1.28				
Mu=-124.17 As =9.90 As(r)=10.27	Mu=-24.83 As =9.82 As(r)=4.62	Mu=-24.83 As =6.81 As(r)=4.62	Mu=-24.83 As =12.51 As(r)=4.62	Mu=-81.37 As =6.81 As(r)=6.51	Mu=-69.45 As =6.81 As(r)=5.50	Mu=-47.14 As =7.23 As(r)=4.62	Mu=-17.11 As =6.81 As(r)=4.62	Mu=-0.00 As =6.81 As(r)=4.62	Mu=-0.00 As =6.81 As(r)=4.62
Mu=41.39 As =5.94 As(r)=4.62	Mu=41.39 As =5.94 As(r)=4.62	Mu=71.16 As =6.81 As(r)=5.65	Mu=27.12 As =8.30 As(r)=4.62	Mu=27.12 As =5.94 As(r)=4.62	Mu=13.89 As =5.94 As(r)=4.62	Mu=0.00 As =5.94 As(r)=4.62	Mu=0.00 As =5.94 As(r)=4.62	Mu=2.52 As =5.94 As(r)=4.62	Mu=10.30 As =5.94 As(r)=4.62
Vu=-109.48		Vu=-5.58		Vu=92.66	Vu=-73.16		Vu=-60.67		Vu=-25.36

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V-203/Piso 2

B=0.40 H=0.40 L=4.67					B=0.40 H=0.40 L=7.30				
Mu=-20.60 As =5.94 As(r)=4.62	Mu=-20.60 As =5.94 As(r)=4.62	Mu=-20.60 As =5.94 As(r)=4.62	Mu=-26.84 As =9.75 As(r)=4.94	Mu=-102.99 As =9.90 As(r)=8.37	Mu=-120.57 As =9.90 As(r)=9.94	Mu=-27.05 As =5.94 As(r)=4.62	Mu=-27.05 As =5.94 As(r)=4.62	Mu=-27.05 As =9.90 As(r)=4.62	Mu=-135.25 As =11.64 As(r)=11.29
Mu=20.60 As =5.94 As(r)=4.62	Mu=28.00 As =5.94 As(r)=4.62	Mu=34.33 As =5.94 As(r)=4.62	Mu=34.33 As =5.94 As(r)=4.62	Mu=34.33 As =5.94 As(r)=4.62	Mu=40.19 As =5.94 As(r)=4.62	Mu=40.19 As =5.94 As(r)=4.62	Mu=83.92 As =8.61 As(r)=6.72	Mu=45.08 As =5.94 As(r)=4.62	Mu=45.08 As =6.81 As(r)=4.62
Vu=-48.74		Vu=27.82		Vu=85.76	Vu=-113.57		Vu=-6.87		Vu=116.59

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-125.97 As =11.64 As(r)=10.44	Mu=-25.19 As =5.94 As(r)=4.70	Mu=-25.19 As =5.94 As(r)=4.62	Mu=-25.19 As =9.90 As(r)=4.62	Mu=-106.23 As =9.90 As(r)=8.66	Mu=-108.36 As =9.90 As(r)=8.85	Mu=-22.41 As =5.94 As(r)=4.62	Mu=-22.41 As =5.94 As(r)=4.62	Mu=-22.41 As =9.90 As(r)=4.62	Mu=-112.06 As =9.90 As(r)=9.18
Mu=41.99 As =6.81 As(r)=4.62	Mu=41.99 As =5.94 As(r)=4.62	Mu=52.91 As =8.61 As(r)=4.62	Mu=35.41 As =5.94 As(r)=4.62	Mu=35.41 As =5.94 As(r)=4.62	Mu=36.12 As =5.94 As(r)=4.62	Mu=36.12 As =5.94 As(r)=4.62	Mu=59.33 As =5.94 As(r)=4.67	Mu=37.35 As =5.94 As(r)=4.62	Mu=37.35 As =5.94 As(r)=4.62
Vu=-102.41		Vu=-4.04		Vu=95.96	Vu=-98.94		Vu=2.53		Vu=100.13

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-111.97 As =9.90 As(r)=9.17	Mu=-22.39 As =5.94 As(r)=4.62	Mu=-22.39 As =5.94 As(r)=4.62	Mu=-22.39 As =9.90 As(r)=4.62	Mu=-110.93 As =9.90 As(r)=9.08	Mu=-111.30 As =9.90 As(r)=9.11	Mu=-22.26 As =8.45 As(r)=4.62	Mu=-22.26 As =5.94 As(r)=4.62	Mu=-22.26 As =9.90 As(r)=4.62	Mu=-111.06 As =9.90 As(r)=9.09
Mu=37.32 As =5.94 As(r)=4.62	Mu=37.32 As =5.94 As(r)=4.62	Mu=58.02 As =5.94 As(r)=4.62	Mu=36.98 As =6.83 As(r)=4.62	Mu=36.98 As =5.94 As(r)=4.62	Mu=37.10 As =5.94 As(r)=4.62	Mu=37.10 As =5.94 As(r)=4.62	Mu=58.35 As =5.94 As(r)=4.62	Mu=37.02 As =7.85 As(r)=4.62	Mu=37.02 As =5.94 As(r)=4.62
Vu=-99.69		Vu=-2.12		Vu=99.30	Vu=-99.59		Vu=2.15		Vu=99.49

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-111.27 As =9.90 As(r)=9.11	Mu=-22.25 As =9.90 As(r)=4.62	Mu=-22.25 As =5.94 As(r)=4.62	Mu=-22.25 As =9.90 As(r)=4.62	Mu=-110.98 As =9.90 As(r)=9.08	Mu=-111.24 As =9.90 As(r)=9.10	Mu=-22.91 As =9.90 As(r)=4.62	Mu=-22.91 As =5.94 As(r)=4.62	Mu=-22.91 As =7.08 As(r)=4.62	Mu=-114.57 As =9.90 As(r)=9.40
Mu=37.09 As =5.94 As(r)=4.62	Mu=37.09 As =7.43 As(r)=4.62	Mu=58.03 As =5.94 As(r)=4.62	Mu=36.99 As =6.81 As(r)=4.62	Mu=36.99 As =5.94 As(r)=4.62	Mu=37.08 As =5.94 As(r)=4.62	Mu=37.08 As =7.43 As(r)=4.62	Mu=58.55 As =5.94 As(r)=4.62	Mu=38.19 As =6.81 As(r)=4.62	Mu=38.19 As =5.94 As(r)=4.62
Vu=-99.49		Vu=2.25		Vu=99.11	Vu=-99.55		Vu=2.04		Vu=101.90

B=0.40 H=0.40 L=6.14				
Mu=-115.40 As =9.90 As(r)=9.48	Mu=-23.08 As =9.90 As(r)=4.62	Mu=-23.08 As =7.01 As(r)=4.62	Mu=-23.08 As =7.08 As(r)=4.62	Mu=-35.43 As =5.94 As(r)=4.62
Mu=38.47 As =5.94 As(r)=4.62	Mu=38.47 As =5.94 As(r)=4.62	Mu=65.55 As =5.94 As(r)=5.30	Mu=37.94 As =6.81 As(r)=4.62	Mu=23.08 As =5.94 As(r)=4.62
Vu=-100.54		Vu=-7.72		Vu=71.78

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V-204/Piso 2

B=0.40 H=0.40 L=3.00					B=0.40 H=0.40 L=7.30				
Mu=-18.39 As =5.94 As(r)=4.62	Mu=-18.39 As =5.94 As(r)=4.62	Mu=-18.39 As =9.90 As(r)=4.62	Mu=-48.44 As =9.90 As(r)=5.45	Mu=-91.93 As =9.90 As(r)=7.41	Mu=-111.82 As =9.90 As(r)=9.16	Mu=-28.02 As =9.90 As(r)=4.62	Mu=-28.02 As =5.94 As(r)=4.62	Mu=-28.02 As =8.45 As(r)=4.62	Mu=-140.10 As =11.64 As(r)=11.75
Mu=18.39 As =5.94 As(r)=4.62	Mu=18.39 As =5.94 As(r)=4.62	Mu=18.39 As =9.15 As(r)=4.62	Mu=18.39 As =7.68 As(r)=4.62	Mu=30.64 As =7.68 As(r)=4.62	Mu=37.27 As =7.68 As(r)=4.62	Mu=37.27 As =7.68 As(r)=4.94	Mu=88.02 As =7.68 As(r)=7.07	Mu=46.70 As =7.68 As(r)=4.62	Mu=46.70 As =5.94 As(r)=4.62
Vu=-19.43		Vu=29.45		Vu=73.05	Vu=-112.43		Vu=-5.95		Vu=120.52

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-129.37 As =11.64 As(r)=10.75	Mu=-25.87 As =9.90 As(r)=4.89	Mu=-25.87 As =5.94 As(r)=4.62	Mu=-25.87 As =9.37 As(r)=4.62	Mu=-106.69 As =9.90 As(r)=8.70	Mu=-108.81 As =9.90 As(r)=8.89	Mu=-22.66 As =9.90 As(r)=4.62	Mu=-22.66 As =5.94 As(r)=4.62	Mu=-22.66 As =5.94 As(r)=4.62	Mu=-113.30 As =9.90 As(r)=9.29
Mu=43.12 As =5.94 As(r)=4.62	Mu=43.12 As =7.68 As(r)=4.62	Mu=52.57 As =7.68 As(r)=4.62	Mu=35.56 As =7.68 As(r)=4.62	Mu=35.56 As =5.94 As(r)=4.62	Mu=36.27 As =5.94 As(r)=4.62	Mu=36.27 As =7.68 As(r)=4.62	Mu=59.95 As =7.68 As(r)=4.72	Mu=37.77 As =7.68 As(r)=4.62	Mu=37.77 As =5.94 As(r)=4.62
Vu=-104.05		Vu=-4.34		Vu=96.48	Vu=-99.78		Vu=2.66		Vu=101.25

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-112.88 As =9.90 As(r)=9.25	Mu=-22.58 As =9.90 As(r)=4.62	Mu=-22.58 As =5.94 As(r)=4.62	Mu=-22.58 As =5.94 As(r)=4.62	Mu=-112.03 As =9.90 As(r)=9.18	Mu=-112.23 As =9.90 As(r)=9.19	Mu=-22.45 As =9.90 As(r)=4.62	Mu=-22.45 As =5.94 As(r)=4.62	Mu=-22.45 As =5.94 As(r)=4.62	Mu=-111.75 As =9.90 As(r)=9.15
Mu=37.63 As =5.94 As(r)=4.62	Mu=37.63 As =7.68 As(r)=4.62	Mu=58.36 As =7.68 As(r)=4.62	Mu=37.34 As =7.68 As(r)=4.62	Mu=37.34 As =5.94 As(r)=4.62	Mu=37.41 As =5.94 As(r)=4.62	Mu=37.41 As =7.68 As(r)=4.62	Mu=58.92 As =9.07 As(r)=4.63	Mu=37.25 As =7.68 As(r)=4.62	Mu=37.25 As =5.94 As(r)=4.62
Vu=-100.56		Vu=-2.18		Vu=100.26	Vu=-100.52		Vu=2.18		Vu=100.38

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-111.49 As =9.90 As(r)=9.13	Mu=-23.00 As =9.90 As(r)=4.62	Mu=-23.00 As =5.94 As(r)=4.62	Mu=-23.00 As =7.16 As(r)=4.62	Mu=-115.02 As =9.90 As(r)=9.44	Mu=-115.81 As =9.90 As(r)=9.51	Mu=-23.16 As =9.90 As(r)=4.62	Mu=-23.16 As =5.94 As(r)=4.62	Mu=-23.16 As =5.94 As(r)=4.62	Mu=-94.83 As =7.92 As(r)=7.66
Mu=37.16 As =5.94 As(r)=4.62	Mu=37.16 As =7.68 As(r)=4.62	Mu=57.78 As =7.68 As(r)=4.62	Mu=38.34 As =7.68 As(r)=4.62	Mu=38.34 As =5.94 As(r)=4.62	Mu=38.60 As =5.94 As(r)=4.62	Mu=38.60 As =7.68 As(r)=4.62	Mu=62.23 As =7.68 As(r)=4.91	Mu=31.61 As =7.68 As(r)=4.62	Mu=31.61 As =5.94 As(r)=4.62
Vu=-99.88		Vu=2.54		Vu=101.41	Vu=-103.76		Vu=-3.31		Vu=94.19

B=0.40 H=0.40 L=4.68				
Mu=-82.12 As =7.92 As(r)=6.57	Mu=-19.43 As =9.90 As(r)=4.62	Mu=-16.42 As =5.94 As(r)=4.62	Mu=-16.42 As =5.94 As(r)=4.62	Mu=-16.42 As =5.94 As(r)=4.62
Mu=27.37 As =5.94 As(r)=4.62	Mu=27.37 As =7.68 As(r)=4.62	Mu=31.72 As =8.92 As(r)=4.62	Mu=28.96 As =7.68 As(r)=4.62	Mu=16.42 As =5.94 As(r)=4.62
Vu=-73.12		Vu=-20.67		Vu=47.69

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V-205/Piso 2

B=0.40 H=0.40 L=0.70					B=0.40 H=0.40 L=7.30				
Mu=-0.00 As =7.92 As(r)=4.62	Mu=-3.99 As =7.92 As(r)=4.62	Mu=-18.92 As =7.92 As(r)=4.62	Mu=-35.43 As =7.92 As(r)=4.62	Mu=-46.86 As =7.92 As(r)=4.62	Mu=-85.23 As =7.92 As(r)=6.84	Mu=-29.63 As =7.92 As(r)=4.62	Mu=-29.63 As =5.94 As(r)=4.62	Mu=-29.63 As =5.94 As(r)=4.62	Mu=-148.17 As =12.51 As(r)=12.52
Mu=5.31 As =8.55 As(r)=4.62	Mu=0.00 As =8.55 As(r)=4.62	Mu=0.00 As =8.55 As(r)=4.62	Mu=0.00 As =8.55 As(r)=4.62	Mu=9.37 As =8.55 As(r)=4.62	Mu=29.63 As =8.55 As(r)=4.62	Mu=43.54 As =8.55 As(r)=6.05	Mu=94.24 As =8.55 As(r)=7.61	Mu=49.39 As =8.55 As(r)=4.62	Mu=49.39 As =6.81 As(r)=4.62
Vu=48.08		Vu=55.30		Vu=60.90	Vu=-106.76		Vu=-3.14		Vu=127.83

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-134.41 As =12.51 As(r)=11.22	Mu=-26.88 As =7.92 As(r)=5.16	Mu=-26.88 As =6.81 As(r)=4.62	Mu=-26.88 As =5.94 As(r)=4.62	Mu=-106.57 As =9.90 As(r)=8.69	Mu=-108.91 As =9.90 As(r)=8.90	Mu=-23.14 As =7.92 As(r)=4.62	Mu=-23.14 As =5.94 As(r)=4.62	Mu=-23.14 As =6.35 As(r)=4.62	Mu=-115.72 As =9.90 As(r)=9.51
Mu=44.80 As =6.81 As(r)=4.62	Mu=44.80 As =8.55 As(r)=4.62	Mu=50.56 As =8.55 As(r)=4.62	Mu=35.52 As =8.55 As(r)=4.62	Mu=35.52 As =5.94 As(r)=4.62	Mu=36.30 As =5.94 As(r)=4.62	Mu=36.30 As =8.55 As(r)=4.62	Mu=60.17 As =8.55 As(r)=4.74	Mu=38.57 As =8.55 As(r)=4.62	Mu=38.57 As =5.94 As(r)=4.62
Vu=-107.18		Vu=-4.64		Vu=97.83	Vu=-102.03		Vu=2.70		Vu=104.79

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-115.09 As =9.90 As(r)=9.45	Mu=-23.02 As =7.92 As(r)=4.62	Mu=-23.02 As =5.94 As(r)=4.62	Mu=-23.02 As =7.32 As(r)=4.62	Mu=-114.49 As =9.90 As(r)=9.40	Mu=-114.17 As =9.90 As(r)=9.37	Mu=-22.83 As =7.73 As(r)=4.62	Mu=-22.83 As =5.94 As(r)=4.62	Mu=-22.83 As =6.81 As(r)=4.62	Mu=-112.43 As =9.90 As(r)=9.21
Mu=38.36 As =5.94 As(r)=4.62	Mu=38.36 As =8.55 As(r)=4.62	Mu=58.63 As =8.55 As(r)=4.62	Mu=38.16 As =8.55 As(r)=4.62	Mu=38.16 As =5.94 As(r)=4.62	Mu=38.06 As =5.94 As(r)=4.62	Mu=38.06 As =8.55 As(r)=4.62	Mu=59.02 As =8.55 As(r)=4.64	Mu=37.48 As =8.55 As(r)=4.62	Mu=37.48 As =5.94 As(r)=4.62
Vu=-103.98		Vu=-2.09		Vu=103.83	Vu=-103.79		Vu=-2.12		Vu=102.82

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-111.37 As =9.90 As(r)=9.12	Mu=-23.63 As =5.94 As(r)=4.62	Mu=-23.63 As =5.94 As(r)=4.62	Mu=-23.63 As =9.82 As(r)=4.62	Mu=-118.14 As =9.90 As(r)=9.72	Mu=-119.83 As =9.90 As(r)=9.88	Mu=-23.97 As =5.94 As(r)=4.62	Mu=-23.97 As =5.94 As(r)=4.62	Mu=-23.97 As =12.51 As(r)=4.62	Mu=-87.08 As =7.92 As(r)=6.99
Mu=37.12 As =5.94 As(r)=4.62	Mu=37.12 As =8.55 As(r)=4.62	Mu=56.15 As =8.55 As(r)=4.62	Mu=39.38 As =8.55 As(r)=4.62	Mu=39.38 As =5.94 As(r)=4.62	Mu=39.94 As =5.94 As(r)=4.62	Mu=39.94 As =8.55 As(r)=4.62	Mu=65.93 As =8.55 As(r)=5.21	Mu=29.03 As =8.55 As(r)=4.62	Mu=29.03 As =5.94 As(r)=4.62
Vu=-101.32		Vu=2.75		Vu=103.83	Vu=-108.67		Vu=-4.56		Vu=94.52

B=0.40 H=0.40 L=2.53				
Mu=-64.42 As =7.92 As(r)=5.09	Mu=-32.36 As =7.43 As(r)=4.62	Mu=-12.88 As =7.92 As(r)=4.62	Mu=-12.88 As =7.16 As(r)=4.62	Mu=-12.88 As =5.94 As(r)=4.62
Mu=21.47 As =5.94 As(r)=4.62	Mu=12.88 As =8.55 As(r)=4.62	Mu=12.88 As =8.55 As(r)=4.62	Mu=12.88 As =8.55 As(r)=4.62	Mu=12.88 As =5.94 As(r)=4.62
Vu=-60.57		Vu=-20.34		Vu=20.59

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V-206/Piso 2

B=0.40 H=0.40 L=7.30					B=0.40 H=0.40 L=6.60				
Mu=-44.47 As =5.94 As(r)=4.62	Mu=-25.78 As =5.94 As(r)=4.62	Mu=-25.78 As =5.94 As(r)=4.62	Mu=-25.78 As =6.76 As(r)=4.62	Mu=-128.92 As =11.64 As(r)=10.71	Mu=-113.02 As =11.64 As(r)=9.26	Mu=-22.60 As =5.94 As(r)=4.62	Mu=-22.60 As =5.94 As(r)=4.62	Mu=-22.60 As =5.94 As(r)=4.62	Mu=-82.35 As =7.92 As(r)=6.59
Mu=25.78 As =7.68 As(r)=4.62	Mu=54.76 As =7.68 As(r)=6.34	Mu=89.12 As =7.68 As(r)=7.18	Mu=42.97 As =7.68 As(r)=4.62	Mu=42.97 As =7.68 As(r)=4.62	Mu=37.67 As =7.68 As(r)=4.62	Mu=37.67 As =7.68 As(r)=4.62	Mu=37.83 As =7.68 As(r)=4.62	Mu=27.45 As =7.68 As(r)=4.62	Mu=27.45 As =5.94 As(r)=4.62
Vu=-82.65		Vu=5.89		Vu=108.45	Vu=-85.12		Vu=-5.27		Vu=75.57

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-85.13 As =7.92 As(r)=6.92	Mu=-17.54 As =5.94 As(r)=4.62	Mu=-17.54 As =5.94 As(r)=4.62	Mu=-17.54 As =8.95 As(r)=4.62	Mu=-87.69 As =7.92 As(r)=7.04	Mu=-92.57 As =7.92 As(r)=7.47	Mu=-18.51 As =5.94 As(r)=4.62	Mu=-18.51 As =5.94 As(r)=4.62	Mu=-18.51 As =11.64 As(r)=6.62	Mu=-92.37 As =7.92 As(r)=7.45
Mu=28.38 As =5.94 As(r)=4.62	Mu=28.38 As =7.68 As(r)=4.62	Mu=49.80 As =7.68 As(r)=4.62	Mu=29.23 As =7.68 As(r)=4.62	Mu=29.23 As =5.94 As(r)=4.62	Mu=30.86 As =5.94 As(r)=4.62	Mu=30.86 As =7.68 As(r)=4.62	Mu=45.37 As =7.68 As(r)=4.62	Mu=30.79 As =7.68 As(r)=4.62	Mu=30.79 As =5.94 As(r)=4.62
Vu=-80.92		Vu=3.04		Vu=79.12	Vu=-80.16		Vu=-2.03		Vu=80.32

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=6.60				
Mu=-86.18 As =7.92 As(r)=6.92	Mu=-18.10 As =5.94 As(r)=4.62	Mu=-18.10 As =5.94 As(r)=4.62	Mu=-18.10 As =11.64 As(r)=4.62	Mu=-90.48 As =7.92 As(r)=7.29	Mu=-88.55 As =7.92 As(r)=7.12	Mu=-19.82 As =5.94 As(r)=4.62	Mu=-19.82 As =5.94 As(r)=4.62	Mu=-19.82 As =11.64 As(r)=6.62	Mu=-99.10 As =9.90 As(r)=8.03
Mu=28.73 As =5.94 As(r)=4.62	Mu=28.73 As =7.68 As(r)=4.62	Mu=48.83 As =7.68 As(r)=4.62	Mu=30.16 As =7.68 As(r)=4.62	Mu=30.16 As =5.94 As(r)=4.62	Mu=29.52 As =5.94 As(r)=4.62	Mu=29.52 As =7.68 As(r)=4.62	Mu=44.95 As =7.68 As(r)=4.62	Mu=33.03 As =8.92 As(r)=4.62	Mu=33.03 As =5.94 As(r)=4.62
Vu=-78.33		Vu=-2.33		Vu=82.81	Vu=-80.67		Vu=3.25		Vu=84.23

B=0.40 H=0.40 L=6.60					B=0.40 H=0.40 L=0.96				
Mu=-103.67 As =9.90 As(r)=8.43	Mu=-20.73 As =5.94 As(r)=4.62	Mu=-20.73 As =5.94 As(r)=4.62	Mu=-20.73 As =11.64 As(r)=4.62	Mu=-61.20 As =5.94 As(r)=4.82	Mu=-40.20 As =5.94 As(r)=4.62	Mu=-29.11 As =5.94 As(r)=4.62	Mu=-14.06 As =5.94 As(r)=4.62	Mu=-1.44 As =5.94 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62
Mu=34.56 As =5.94 As(r)=4.62	Mu=34.56 As =7.68 As(r)=4.62	Mu=62.21 As =7.68 As(r)=5.04	Mu=30.66 As =7.68 As(r)=4.62	Mu=20.73 As =5.94 As(r)=4.62	Mu=8.04 As =5.94 As(r)=4.62	Mu=0.00 As =7.68 As(r)=4.62	Mu=0.00 As =7.68 As(r)=4.62	Mu=0.57 As =7.68 As(r)=4.62	Mu=6.22 As =5.94 As(r)=4.62
Vu=-91.79		Vu=-7.32		Vu=66.09	Vu=-44.91		Vu=-37.48		Vu=-29.24

V-207/Piso 2

B=0.40 H=0.40 L=7.30					B=0.40 H=0.40 L=6.60				
Mu=-58.15 As =5.94 As(r)=4.62	Mu=-32.94 As =5.94 As(r)=4.62	Mu=-32.94 As =7.68 As(r)=4.62	Mu=-32.94 As =8.55 As(r)=5.10	Mu=-164.68 As =14.25 As(r)=14.12	Mu=-145.56 As =14.25 As(r)=12.27	Mu=-29.11 As =5.94 As(r)=5.76	Mu=-29.11 As =6.81 As(r)=4.62	Mu=-29.11 As =8.55 As(r)=4.62	Mu=-112.07 As =9.90 As(r)=9.18
Mu=32.94 As =9.58 As(r)=5.29	Mu=65.09 As =9.58 As(r)=7.72	Mu=107.97 As =9.58 As(r)=8.81	Mu=54.89 As =9.58 As(r)=5.29	Mu=54.89 As =8.55 As(r)=5.29	Mu=48.52 As =8.55 As(r)=4.62	Mu=48.52 As =9.58 As(r)=4.62	Mu=51.82 As =9.58 As(r)=4.62	Mu=37.36 As =9.58 As(r)=4.62	Mu=37.36 As =6.81 As(r)=4.62
Vu=-101.96		Vu=5.33		Vu=138.14	Vu=-112.78		Vu=-5.45		Vu=101.11

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B=0.40 H=0.40 L=6.16				
Mu=-114.42 As =9.90 As(r)=9.39	Mu=-22.88 As =5.94 As(r)=4.62	Mu=-22.88 As =5.94 As(r)=4.62	Mu=-22.88 As =8.55 As(r)=4.62	Mu=-34.70 As =5.94 As(r)=4.62
Mu=38.14 As =6.81 As(r)=4.62	Mu=38.14 As =9.58 As(r)=4.62	Mu=67.76 As =9.58 As(r)=5.36	Mu=23.95 As =9.58 As(r)=4.62	Mu=22.88 As =5.94 As(r)=4.62
Vu=-109.73		Vu=-4.24		Vu=46.70

V-208/Piso 2

B=0.40 H=0.40 L=6.16					B=0.40 H=0.40 L=6.60				
Mu=-37.62 As =5.94 As(r)=4.62	Mu=-24.76 As =5.94 As(r)=4.62	Mu=-24.76 As =6.81 As(r)=4.62	Mu=-24.76 As =6.81 As(r)=4.62	Mu=-123.79 As =10.77 As(r)=10.24	Mu=-104.46 As =10.77 As(r)=8.50	Mu=-24.85 As =5.94 As(r)=4.62	Mu=-24.85 As =6.81 As(r)=4.62	Mu=-24.85 As =10.77 As(r)=4.62	Mu=-124.27 As =10.77 As(r)=10.28
Mu=24.76 As =5.94 As(r)=4.62	Mu=24.76 As =5.94 As(r)=4.62	Mu=62.85 As =5.94 As(r)=4.96	Mu=41.26 As =5.94 As(r)=4.62	Mu=41.26 As =5.94 As(r)=4.62	Mu=34.82 As =5.94 As(r)=4.62	Mu=34.82 As =5.94 As(r)=4.62	Mu=57.69 As =5.94 As(r)=4.62	Mu=41.42 As =6.09 As(r)=4.62	Mu=41.42 As =5.94 As(r)=4.62
Vu=-46.33		Vu=5.33		Vu=116.37	Vu=-93.27		Vu=3.52		Vu=111.53

B=0.40 H=0.40 L=6.39				
Mu=-117.08 As =10.77 As(r)=9.63	Mu=-23.42 As =5.94 As(r)=4.62	Mu=-23.42 As =6.81 As(r)=4.62	Mu=-23.42 As =10.77 As(r)=4.62	Mu=-37.59 As =5.94 As(r)=4.62
Mu=39.03 As =5.94 As(r)=4.62	Mu=39.03 As =5.94 As(r)=4.62	Mu=67.11 As =5.94 As(r)=5.54	Mu=40.81 As =7.28 As(r)=4.62	Mu=23.42 As =6.81 As(r)=4.62
Vu=-100.43		Vu=-9.18		Vu=71.44

V-209/Piso 2

B=0.40 H=0.40 L=7.30					B=0.40 H=0.40 L=6.60				
Mu=-37.17 As =5.94 As(r)=4.62	Mu=-22.72 As =5.94 As(r)=4.62	Mu=-22.72 As =7.68 As(r)=4.62	Mu=-22.72 As =7.68 As(r)=4.62	Mu=-113.59 As =9.66 As(r)=9.31	Mu=-100.36 As =9.66 As(r)=8.14	Mu=-20.07 As =5.94 As(r)=4.62	Mu=-20.07 As =5.94 As(r)=4.62	Mu=-20.07 As =7.68 As(r)=4.62	Mu=-93.88 As =8.79 As(r)=7.58
Mu=22.72 As =6.81 As(r)=4.62	Mu=44.76 As =6.81 As(r)=5.30	Mu=77.16 As =6.81 As(r)=6.15	Mu=37.86 As =6.81 As(r)=4.62	Mu=37.86 As =6.81 As(r)=4.62	Mu=33.45 As =6.81 As(r)=4.62	Mu=33.45 As =6.81 As(r)=4.62	Mu=36.82 As =6.81 As(r)=4.62	Mu=31.29 As =6.81 As(r)=4.62	Mu=31.29 As =6.81 As(r)=4.62
Vu=-64.19		Vu=6.42		Vu=94.11	Vu=-79.55		Vu=-3.86		Vu=78.77

B=0.40 H=0.40 L=6.16				
Mu=-101.38 As =8.79 As(r)=8.23	Mu=-0.87 As =5.94 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62	Mu=-0.00 As =7.68 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62
Mu=20.28 As =6.81 As(r)=4.62	Mu=20.28 As =6.81 As(r)=4.62	Mu=69.00 As =6.81 As(r)=5.89	Mu=54.35 As =6.81 As(r)=4.62	Mu=2.07 As =5.94 As(r)=4.62
Vu=-93.04		Vu=-13.25		Vu=46.04

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V-210/Piso 2

B=0.40 H=0.40 L=6.16					B=0.40 H=0.40 L=3.37				
Mu=-79.04 As =7.92 As(r)=6.31	Mu=-19.75 As =7.92 As(r)=4.62	Mu=-19.75 As =7.92 As(r)=4.62	Mu=-19.75 As =5.94 As(r)=4.62	Mu=-98.73 As =8.79 As(r)=8.00	Mu=-90.68 As =8.79 As(r)=7.30	Mu=-29.88 As =7.92 As(r)=4.64	Mu=-18.14 As =7.99 As(r)=4.62	Mu=-18.14 As =8.03 As(r)=4.62	Mu=-18.14 As =5.94 As(r)=4.62
Mu=26.35 As =6.81 As(r)=4.62	Mu=36.41 As =6.81 As(r)=4.63	Mu=78.05 As =6.81 As(r)=6.23	Mu=32.91 As =6.81 As(r)=4.62	Mu=32.91 As =6.81 As(r)=4.62	Mu=30.23 As =6.81 As(r)=4.62	Mu=23.23 As =6.81 As(r)=4.62	Mu=23.23 As =6.81 As(r)=4.62	Mu=20.11 As =6.81 As(r)=4.62	Mu=18.14 As =5.94 As(r)=4.62
Vu=-97.37		Vu=4.21		Vu=102.72	Vu=-89.86		Vu=-26.42		Vu=35.22

V-211/Piso 2

B=0.40 H=0.40 L=6.16					B=0.40 H=0.40 L=2.10				
Mu=-0.00 As =5.94 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62	Mu=-66.97 As =5.94 As(r)=5.30	Mu=-55.25 As =5.94 As(r)=4.62	Mu=-39.46 As =5.94 As(r)=4.62	Mu=-19.64 As =5.94 As(r)=4.62	Mu=-11.95 As =5.94 As(r)=4.62	Mu=-13.69 As =5.94 As(r)=4.62
Mu=6.94 As =5.94 As(r)=4.62	Mu=43.83 As =7.03 As(r)=4.62	Mu=57.35 As =5.94 As(r)=4.76	Mu=13.39 As =5.94 As(r)=4.62	Mu=13.39 As =5.94 As(r)=4.62	Mu=18.42 As =5.94 As(r)=4.62	Mu=11.05 As =5.94 As(r)=4.62	Mu=11.05 As =6.39 As(r)=4.62	Mu=11.05 As =5.94 As(r)=4.62	Mu=17.55 As =5.94 As(r)=4.62
Vu=-28.83		Vu=9.80		Vu=57.51	Vu=-56.68		Vu=-50.31		Vu=-41.20

V-212/Piso 2

B=0.40 H=0.40 L=2.54					B=0.40 H=0.40 L=5.85				
Mu=-0.00 As =5.94 As(r)=4.62	Mu=-3.22 As =5.94 As(r)=4.62	Mu=-23.53 As =6.51 As(r)=4.62	Mu=-37.42 As =6.28 As(r)=4.62	Mu=-42.27 As =5.94 As(r)=4.62	Mu=-48.73 As =5.94 As(r)=4.62	Mu=-9.75 As =5.94 As(r)=4.62	Mu=-9.75 As =7.01 As(r)=4.62	Mu=-9.75 As =5.94 As(r)=4.62	Mu=-9.75 As =5.94 As(r)=4.62
Mu=1.69 As =5.94 As(r)=4.62	Mu=0.00 As =5.94 As(r)=4.62	Mu=0.00 As =5.94 As(r)=4.62	Mu=0.00 As =5.94 As(r)=4.62	Mu=8.45 As =5.94 As(r)=4.62	Mu=16.24 As =5.94 As(r)=4.62	Mu=16.24 As =5.94 As(r)=4.62	Mu=16.76 As =5.94 As(r)=4.62	Mu=9.75 As =5.94 As(r)=4.62	Mu=9.75 As =5.94 As(r)=4.62
Vu=-4.43		Vu=-21.78		Vu=-9.47	Vu=14.23		Vu=11.94		Vu=-11.94

B=0.40 H=0.40 L=4.13					B=0.40 H=0.40 L=3.49				
Mu=-13.51 As =5.94 As(r)=4.62	Mu=-6.14 As =5.94 As(r)=4.62	Mu=-6.14 As =6.55 As(r)=4.62	Mu=-11.82 As =5.94 As(r)=4.62	Mu=-30.71 As =5.94 As(r)=4.62	Mu=-46.61 As =5.94 As(r)=4.62	Mu=-9.32 As =5.94 As(r)=4.62	Mu=-9.32 As =5.94 As(r)=4.62	Mu=-9.32 As =5.94 As(r)=4.62	Mu=-9.32 As =5.94 As(r)=4.62
Mu=6.14 As =5.94 As(r)=4.62	Mu=6.14 As =5.94 As(r)=4.62	Mu=6.14 As =5.94 As(r)=4.62	Mu=6.14 As =5.94 As(r)=4.62	Mu=10.24 As =5.94 As(r)=4.62	Mu=15.54 As =5.94 As(r)=4.62	Mu=15.54 As =5.94 As(r)=4.62	Mu=29.06 As =5.94 As(r)=4.62	Mu=39.99 As =5.94 As(r)=4.62	Mu=37.42 As =5.94 As(r)=4.62
Vu=15.72		Vu=-8.19		Vu=-24.71	Vu=56.99		Vu=20.68		Vu=-7.82

B=0.40 H=0.40 L=2.06					B=0.40 H=0.40 L=4.00				
Mu=-8.78 As =5.94 As(r)=4.62	Mu=-8.78 As =5.94 As(r)=4.62	Mu=-8.78 As =5.94 As(r)=4.62	Mu=-20.55 As =5.94 As(r)=4.62	Mu=-43.88 As =5.94 As(r)=4.62	Mu=-50.37 As =5.94 As(r)=4.62	Mu=-10.07 As =6.66 As(r)=4.62	Mu=-10.07 As =6.55 As(r)=4.62	Mu=-10.07 As =5.94 As(r)=4.62	Mu=-10.07 As =5.94 As(r)=4.62
Mu=35.35 As =5.94 As(r)=4.62	Mu=26.64 As =5.94 As(r)=4.62	Mu=10.04 As =5.94 As(r)=4.62	Mu=8.78 As =5.94 As(r)=4.62	Mu=14.63 As =5.94 As(r)=4.62	Mu=16.79 As =5.94 As(r)=4.62	Mu=16.79 As =5.94 As(r)=4.62	Mu=24.14 As =5.94 As(r)=4.62	Mu=21.42 As =5.94 As(r)=4.62	Mu=10.07 As =5.94 As(r)=4.62
Vu=18.33		Vu=27.33		Vu=48.64	Vu=-48.23		Vu=-25.88		Vu=25.56

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V-213/Piso 2

B=0.40 H=0.40 L=5.20					B=0.40 H=0.40 L=3.95				
Mu=-18.13 As =5.94 As(r)=4.62	Mu=-11.01 As =5.94 As(r)=4.62	Mu=-11.01 As =6.81 As(r)=4.62	Mu=-11.01 As =5.52 As(r)=4.62	Mu=-55.03 As =8.79 As(r)=4.62	Mu=-57.08 As =8.79 As(r)=4.62	Mu=-13.49 As =5.94 As(r)=4.62	Mu=-11.42 As =3.96 As(r)=4.62	Mu=-11.42 As =6.92 As(r)=4.62	Mu=-21.88 As =5.94 As(r)=4.62
Mu=11.01 As =7.68 As(r)=4.62	Mu=27.45 As =7.68 As(r)=4.62	Mu=48.75 As =7.68 As(r)=4.62	Mu=18.34 As =7.68 As(r)=4.62	Mu=18.34 As =5.94 As(r)=4.62	Mu=19.03 As =5.94 As(r)=4.62	Mu=17.15 As =7.68 As(r)=4.62	Mu=17.15 As =7.68 As(r)=4.62	Mu=11.42 As =7.68 As(r)=4.62	Mu=11.42 As =5.94 As(r)=4.62
Vu=-40.93		Vu=-4.95		Vu=55.45	Vu=-50.05		Vu=-29.94		Vu=29.94

B=0.40 H=0.40 L=0.88					B=0.40 H=0.40 L=1.99				
Mu=-27.13 As =5.94 As(r)=4.62	Mu=-15.88 As =5.94 As(r)=4.62	Mu=-5.43 As =5.94 As(r)=4.62	Mu=-5.43 As =5.94 As(r)=4.62	Mu=-5.43 As =5.94 As(r)=4.62	Mu=-12.00 As =5.94 As(r)=4.62	Mu=-12.00 As =5.94 As(r)=4.62	Mu=-12.00 As =8.79 As(r)=4.62	Mu=-25.89 As =5.94 As(r)=4.62	Mu=-60.02 As =8.79 As(r)=4.72
Mu=9.04 As =5.94 As(r)=4.62	Mu=5.43 As =7.68 As(r)=4.62	Mu=5.43 As =7.68 As(r)=4.62	Mu=8.59 As =7.68 As(r)=4.62	Mu=9.29 As =5.94 As(r)=4.62	Mu=12.00 As =5.94 As(r)=4.62	Mu=12.00 As =7.68 As(r)=4.62	Mu=12.00 As =7.68 As(r)=4.62	Mu=12.00 As =7.68 As(r)=4.62	Mu=20.01 As =5.94 As(r)=4.62
Vu=-33.06		Vu=-29.30		Vu=-6.94	Vu=-6.58		Vu=14.26		Vu=68.44

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=3.80				
Mu=-76.01 As =8.79 As(r)=6.05	Mu=-15.20 As =5.94 As(r)=4.62	Mu=-15.20 As =5.94 As(r)=4.62	Mu=-15.20 As =8.79 As(r)=4.62	Mu=-74.84 As =7.92 As(r)=5.96	Mu=-68.81 As =7.92 As(r)=5.45	Mu=-16.45 As =5.94 As(r)=4.62	Mu=-13.76 As =5.94 As(r)=4.62	Mu=-24.79 As =5.06 As(r)=4.62	Mu=-65.06 As =7.92 As(r)=5.14
Mu=25.34 As =5.94 As(r)=4.62	Mu=25.34 As =7.68 As(r)=4.62	Mu=58.61 As =7.68 As(r)=4.62	Mu=24.95 As =5.94 As(r)=4.62	Mu=24.95 As =6.81 As(r)=4.62	Mu=22.94 As =6.81 As(r)=4.62	Mu=22.94 As =7.68 As(r)=4.62	Mu=27.23 As =7.68 As(r)=4.62	Mu=21.69 As =7.68 As(r)=4.62	Mu=21.69 As =6.81 As(r)=4.62
Vu=-85.08		Vu=-3.36		Vu=97.19	Vu=-91.75		Vu=25.80		Vu=78.89

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=4.00				
Mu=-85.45 As =7.92 As(r)=6.85	Mu=-21.10 As =7.27 As(r)=4.62	Mu=-21.10 As =6.81 As(r)=4.62	Mu=-21.10 As =8.79 As(r)=4.62	Mu=-105.52 As =8.79 As(r)=8.60	Mu=-105.13 As =8.79 As(r)=8.56	Mu=-21.03 As =7.18 As(r)=4.62	Mu=-21.03 As =6.81 As(r)=4.62	Mu=-21.03 As =8.79 As(r)=4.62	Mu=-21.03 As =6.81 As(r)=4.62
Mu=28.48 As =6.81 As(r)=4.62	Mu=28.48 As =7.68 As(r)=4.62	Mu=70.47 As =7.68 As(r)=5.59	Mu=35.17 As =5.94 As(r)=4.62	Mu=35.17 As =6.81 As(r)=4.62	Mu=35.04 As =6.81 As(r)=4.62	Mu=35.04 As =7.68 As(r)=4.62	Mu=47.75 As =7.68 As(r)=4.62	Mu=36.94 As =10.57 As(r)=4.62	Mu=21.03 As =7.92 As(r)=4.62
Vu=-110.42		Vu=2.40		Vu=122.36	Vu=-116.85		Vu=-35.39		Vu=55.80

V-214/Piso 2

B=0.40 H=0.40 L=0.74					B=0.40 H=0.40 L=5.20				
Mu=-0.00 As =1.49 As(r)=4.62	Mu=-2.85 As =5.94 As(r)=4.62	Mu=-10.04 As =5.94 As(r)=4.62	Mu=-18.54 As =5.94 As(r)=4.62	Mu=-24.67 As =5.94 As(r)=4.62	Mu=-52.32 As =5.94 As(r)=4.62	Mu=-20.64 As =5.94 As(r)=4.62	Mu=-20.64 As =6.81 As(r)=4.62	Mu=-20.64 As =6.81 As(r)=4.62	Mu=-103.18 As =8.79 As(r)=8.39
Mu=1.19 As =1.92 As(r)=4.62	Mu=0.00 As =7.68 As(r)=4.62	Mu=0.00 As =7.68 As(r)=4.62	Mu=0.00 As =7.68 As(r)=4.62	Mu=4.93 As =7.68 As(r)=4.62	Mu=20.64 As =7.68 As(r)=4.62	Mu=40.34 As =7.68 As(r)=5.08	Mu=83.21 As =7.68 As(r)=6.66	Mu=34.39 As =7.68 As(r)=4.62	Mu=34.39 As =5.94 As(r)=4.62
Vu=23.05		Vu=30.23		Vu=36.05	Vu=-96.01		Vu=-11.12		Vu=119.94

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B=0.40 H=0.40 L=3.95					B=0.40 H=0.40 L=3.95				
Mu=-100.67 As =8.79 As(r)=8.17	Mu=-20.13 As =5.94 As(r)=4.62	Mu=-20.13 As =3.96 As(r)=4.62	Mu=-20.13 As =6.68 As(r)=4.62	Mu=-51.97 As =5.94 As(r)=4.62	Mu=-59.39 As =5.94 As(r)=4.67	Mu=-18.03 As =5.94 As(r)=4.62	Mu=-18.03 As =6.08 As(r)=4.62	Mu=-18.03 As =6.86 As(r)=4.62	Mu=-90.16 As =8.79 As(r)=7.26
Mu=33.56 As =5.94 As(r)=4.62	Mu=33.56 As =7.68 As(r)=4.62	Mu=37.06 As =7.68 As(r)=4.62	Mu=20.13 As =7.68 As(r)=4.62	Mu=20.13 As =5.94 As(r)=4.62	Mu=19.80 As =5.94 As(r)=4.62	Mu=19.80 As =7.68 As(r)=4.62	Mu=36.20 As =7.68 As(r)=4.62	Mu=30.05 As =7.68 As(r)=4.62	Mu=30.05 As =5.94 As(r)=4.62
Vu=-110.96		Vu=-28.26		Vu=81.29		Vu=-85.19		Vu=-12.31	
								Vu=102.93	

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=3.80				
Mu=-107.61 As =8.79 As(r)=8.78	Mu=-21.52 As =5.94 As(r)=4.62	Mu=-21.52 As =5.94 As(r)=4.62	Mu=-21.52 As =6.43 As(r)=4.62	Mu=-89.99 As =7.92 As(r)=7.24	Mu=-82.35 As =7.92 As(r)=6.59	Mu=-21.64 As =5.94 As(r)=4.62	Mu=-16.47 As =5.94 As(r)=4.62	Mu=-16.47 As =6.81 As(r)=4.62	Mu=-72.06 As =7.92 As(r)=5.72
Mu=35.87 As =5.94 As(r)=4.62	Mu=35.87 As =7.68 As(r)=4.62	Mu=73.33 As =7.68 As(r)=5.83	Mu=30.00 As =7.68 As(r)=4.62	Mu=30.00 As =6.81 As(r)=4.62	Mu=27.45 As =6.81 As(r)=4.62	Mu=16.47 As =7.68 As(r)=4.62	Mu=16.47 As =7.68 As(r)=4.62	Mu=16.47 As =7.68 As(r)=4.62	Mu=24.02 As =6.81 As(r)=4.62
Vu=-124.88		Vu=-3.13		Vu=115.33		Vu=-83.08		Vu=-4.96	
								Vu=76.79	

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=4.00				
Mu=-93.40 As =7.92 As(r)=7.54	Mu=-20.79 As =5.94 As(r)=4.62	Mu=-20.79 As =6.81 As(r)=4.62	Mu=-20.79 As =8.79 As(r)=4.62	Mu=-103.97 As =8.79 As(r)=8.46	Mu=-103.77 As =8.79 As(r)=8.44	Mu=-20.75 As =5.94 As(r)=4.62	Mu=-20.75 As =6.81 As(r)=4.62	Mu=-20.75 As =5.97 As(r)=4.62	Mu=-20.75 As =6.81 As(r)=4.62
Mu=31.13 As =6.81 As(r)=4.62	Mu=31.13 As =7.68 As(r)=4.62	Mu=70.53 As =7.68 As(r)=5.59	Mu=34.66 As =8.43 As(r)=4.62	Mu=34.66 As =6.81 As(r)=4.62	Mu=34.59 As =6.81 As(r)=4.62	Mu=34.59 As =7.68 As(r)=4.62	Mu=46.21 As =7.68 As(r)=4.62	Mu=36.02 As =7.68 As(r)=4.62	Mu=20.75 As =7.92 As(r)=4.62
Vu=-115.71		Vu=3.51		Vu=120.76		Vu=-113.97		Vu=-34.93	
								Vu=53.96	

V-215/Piso 2

B=0.40 H=0.40 L=4.00					B=0.40 H=0.40 L=5.40				
Mu=-19.69 As =6.81 As(r)=4.62	Mu=-19.69 As =6.81 As(r)=4.62	Mu=-19.69 As =6.81 As(r)=4.62	Mu=-19.69 As =7.38 As(r)=4.62	Mu=-98.43 As =8.79 As(r)=7.97	Mu=-98.89 As =8.79 As(r)=8.01	Mu=-19.78 As =6.81 As(r)=4.62	Mu=-19.78 As =6.81 As(r)=4.62	Mu=-19.78 As =8.79 As(r)=4.62	Mu=-87.41 As =7.92 As(r)=7.02
Mu=19.69 As =7.92 As(r)=4.62	Mu=34.33 As =7.92 As(r)=4.62	Mu=44.42 As =7.92 As(r)=4.62	Mu=32.81 As =8.81 As(r)=4.62	Mu=32.81 As =6.81 As(r)=4.62	Mu=32.96 As =6.81 As(r)=4.62	Mu=32.96 As =7.92 As(r)=4.62	Mu=66.87 As =8.45 As(r)=5.29	Mu=29.14 As =6.81 As(r)=4.62	Mu=29.14 As =6.81 As(r)=4.62
Vu=51.99		Vu=-33.25		Vu=-108.12		Vu=114.22		Vu=3.63	
								Vu=-108.36	

B=0.40 H=0.40 L=3.80					B=0.40 H=0.40 L=5.40				
Mu=-68.01 As =7.92 As(r)=5.38	Mu=-15.40 As =6.81 As(r)=4.62	Mu=-15.15 As =5.94 As(r)=4.62	Mu=-19.92 As =8.79 As(r)=4.62	Mu=-75.75 As =7.92 As(r)=6.03	Mu=-82.62 As =7.92 As(r)=6.61	Mu=-19.50 As =6.81 As(r)=4.62	Mu=-19.50 As =5.94 As(r)=4.62	Mu=-19.50 As =8.79 As(r)=4.62	Mu=-97.49 As =8.79 As(r)=7.89
Mu=22.67 As =6.81 As(r)=4.62	Mu=15.15 As =7.92 As(r)=4.62	Mu=15.15 As =7.92 As(r)=4.62	Mu=15.15 As =8.89 As(r)=4.62	Mu=25.25 As =6.81 As(r)=4.62	Mu=27.54 As =6.81 As(r)=4.62	Mu=27.54 As =7.92 As(r)=4.62	Mu=67.68 As =8.30 As(r)=5.36	Mu=32.50 As =6.81 As(r)=4.62	Mu=32.50 As =5.94 As(r)=4.62
Vu=71.76		Vu=-4.99		Vu=-76.48		Vu=105.80		Vu=-3.19	
								Vu=-113.32	

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B=0.40 H=0.40 L=3.95					B=0.40 H=0.40 L=3.95					
Mu=-81.94 As =8.79 As(r)=6.55	Mu=-16.39 As =6.81 As(r)=4.62	Mu=-16.39 As =6.08 As(r)=4.62	Mu=-16.39 As =8.79 As(r)=4.62	Mu=-50.96 As =5.94 As(r)=4.62	Mu=-44.45 As =5.94 As(r)=4.62	Mu=-18.00 As =6.81 As(r)=4.62	Mu=-18.00 As =3.96 As(r)=4.62	Mu=-18.00 As =8.79 As(r)=4.62	Mu=-90.01 As =8.79 As(r)=7.24	
Mu=27.31 As =5.94 As(r)=4.62	Mu=27.31 As =7.92 As(r)=4.62	Mu=31.72 As =8.81 As(r)=4.62	Mu=16.99 As =6.81 As(r)=4.62	Mu=16.99 As =5.94 As(r)=4.62	Mu=18.00 As =5.94 As(r)=4.62	Mu=18.00 As =7.92 As(r)=4.62	Mu=31.44 As =10.23 As(r)=4.62	Mu=30.00 As =6.81 As(r)=4.62	Mu=30.00 As =5.94 As(r)=4.62	
Vu=92.03		Vu=-10.39		Vu=-74.04		Vu=69.50		Vu=-25.56		Vu=-97.55

B=0.40 H=0.40 L=5.20					B=0.40 H=0.40 L=0.74					
Mu=-91.68 As =8.79 As(r)=7.39	Mu=-18.34 As =6.81 As(r)=4.62	Mu=-18.34 As =6.81 As(r)=4.62	Mu=-18.34 As =8.79 As(r)=4.62	Mu=-55.45 As =5.94 As(r)=4.62	Mu=-28.87 As =5.94 As(r)=4.62	Mu=-21.95 As =6.81 As(r)=4.62	Mu=-12.24 As =5.94 As(r)=4.62	Mu=-3.86 As =6.81 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62	
Mu=30.56 As =5.94 As(r)=4.62	Mu=30.56 As =7.92 As(r)=4.62	Mu=76.00 As =6.81 As(r)=6.05	Mu=34.04 As =6.81 As(r)=4.62	Mu=18.48 As =7.68 As(r)=4.62	Mu=5.77 As =7.68 As(r)=4.62	Mu=0.00 As =7.92 As(r)=4.62	Mu=0.00 As =7.92 As(r)=4.62	Mu=0.00 As =7.92 As(r)=4.62	Mu=0.91 As =7.68 As(r)=4.62	
Vu=107.75		Vu=-11.02		Vu=-92.66		Vu=40.67		Vu=34.59		Vu=27.38

V-216/Piso 2

B=0.40 H=0.40 L=0.74					B=0.40 H=0.40 L=5.20				
Mu=-0.00 As =1.31 As(r)=4.62	Mu=-0.42 As =5.23 As(r)=4.62	Mu=-2.43 As =5.23 As(r)=4.62	Mu=-5.30 As =5.23 As(r)=4.62	Mu=-7.55 As =5.23 As(r)=4.62	Mu=-0.79 As =5.23 As(r)=4.62	Mu=-3.17 As =5.23 As(r)=4.62	Mu=-2.53 As =5.57 As(r)=4.62	Mu=-1.06 As =6.03 As(r)=4.62	Mu=-0.79 As =5.94 As(r)=4.62
Mu=0.47 As =0.63 As(r)=4.62	Mu=0.00 As =2.54 As(r)=4.62	Mu=0.00 As =2.54 As(r)=4.62	Mu=0.00 As =2.54 As(r)=4.62	Mu=1.51 As =2.54 As(r)=4.62	Mu=3.93 As =2.54 As(r)=4.62	Mu=2.30 As =2.54 As(r)=4.62	Mu=2.30 As =2.54 As(r)=4.62	Mu=2.30 As =2.54 As(r)=4.62	Mu=2.14 As =3.96 As(r)=4.62
Vu=3.94		Vu=7.94		Vu=11.61	Vu=-2.68		Vu=-9.40		Vu=5.45

B=0.40 H=0.40 L=0.20					B=0.40 H=0.40 L=3.17				
Mu=-14.34 As =5.94 As(r)=4.62	Mu=-21.59 As =5.23 As(r)=4.62	Mu=-32.63 As =5.94 As(r)=4.62	Mu=-45.17 As =5.23 As(r)=4.62	Mu=-53.38 As =5.94 As(r)=4.62	Mu=-34.89 As =5.94 As(r)=4.62	Mu=-8.14 As =5.23 As(r)=4.62	Mu=-8.14 As =7.47 As(r)=4.62	Mu=-8.14 As =5.23 As(r)=4.62	Mu=-40.70 As =5.94 As(r)=4.62
Mu=10.68 As =3.96 As(r)=4.62	Mu=10.68 As =2.54 As(r)=4.62	Mu=10.68 As =2.54 As(r)=4.62	Mu=10.68 As =2.54 As(r)=4.62	Mu=17.79 As =3.96 As(r)=4.62	Mu=11.63 As =5.94 As(r)=4.62	Mu=11.63 As =2.54 As(r)=4.62	Mu=26.18 As =2.54 As(r)=4.62	Mu=13.57 As =2.54 As(r)=4.62	Mu=13.57 As =5.94 As(r)=4.62
Vu=51.45		Vu=53.06		Vu=58.91	Vu=-55.61		Vu=5.00		Vu=64.81

B=0.40 H=0.40 L=3.95					B=0.40 H=0.40 L=5.40				
Mu=-47.32 As =5.94 As(r)=4.62	Mu=-17.17 As =5.23 As(r)=4.62	Mu=-17.17 As =6.47 As(r)=4.62	Mu=-17.17 As =5.23 As(r)=4.62	Mu=-85.84 As =8.79 As(r)=6.89	Mu=-100.91 As =8.79 As(r)=8.19	Mu=-20.18 As =5.23 As(r)=4.62	Mu=-20.18 As =6.93 As(r)=4.62	Mu=-20.18 As =5.94 As(r)=4.62	Mu=-84.49 As =7.92 As(r)=6.77
Mu=17.17 As =5.94 As(r)=4.62	Mu=17.17 As =2.54 As(r)=4.62	Mu=35.04 As =2.54 As(r)=4.62	Mu=28.61 As =2.54 As(r)=4.62	Mu=28.61 As =5.94 As(r)=4.62	Mu=33.64 As =5.94 As(r)=4.62	Mu=33.64 As =2.54 As(r)=4.62	Mu=68.94 As =2.54 As(r)=5.46	Mu=28.16 As =2.54 As(r)=4.62	Mu=28.16 As =6.81 As(r)=4.62
Vu=-74.87		Vu=-10.12		Vu=96.80	Vu=-116.48		Vu=-3.45		Vu=108.07

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B=0.40 H=0.40 L=3.80					B=0.40 H=0.40 L=5.40				
Mu=-76.94 As =7.92 As(r)=6.13	Mu=-20.12 As =5.23 As(r)=4.62	Mu=-15.39 As =6.47 As(r)=4.62	Mu=-15.75 As =5.80 As(r)=4.62	Mu=-69.41 As =5.94 As(r)=5.50	Mu=-88.74 As =5.94 As(r)=7.14	Mu=-20.10 As =5.23 As(r)=4.62	Mu=-20.10 As =7.47 As(r)=4.62	Mu=-20.10 As =5.94 As(r)=4.62	Mu=-100.49 As =8.79 As(r)=8.15
Mu=25.65 As =6.81 As(r)=4.62	Mu=15.39 As =2.54 As(r)=4.62	Mu=15.39 As =2.54 As(r)=4.62	Mu=15.39 As =2.54 As(r)=4.62	Mu=23.14 As =6.81 As(r)=4.62	Mu=29.58 As =6.81 As(r)=4.62	Mu=29.58 As =2.54 As(r)=4.62	Mu=67.91 As =2.54 As(r)=5.38	Mu=33.50 As =5.88 As(r)=4.62	Mu=33.50 As =5.94 As(r)=4.62
Vu=-77.80		Vu=-5.30		Vu=73.20	Vu=-110.07		Vu=3.79		Vu=115.97

B=0.40 H=0.40 L=4.00				
Mu=-99.50 As =8.79 As(r)=8.07	Mu=-19.90 As =5.23 As(r)=4.62	Mu=-19.90 As =6.44 As(r)=4.62	Mu=-19.90 As =5.94 As(r)=4.62	Mu=-19.90 As =5.94 As(r)=4.62
Mu=33.17 As =5.94 As(r)=4.62	Mu=33.17 As =2.54 As(r)=4.62	Mu=44.87 As =2.54 As(r)=4.62	Mu=34.52 As =2.54 As(r)=4.62	Mu=19.90 As =5.94 As(r)=4.62
Vu=-109.31		Vu=-33.59		Vu=52.79

V-217/Piso 2

B=0.40 H=0.40 L=4.77					B=0.40 H=0.40 L=0.20				
Mu=-5.40 As =5.23 As(r)=4.62	Mu=-5.40 As =5.23 As(r)=4.62	Mu=-5.40 As =6.63 As(r)=4.62	Mu=-5.40 As =5.94 As(r)=4.62	Mu=-5.40 As =5.94 As(r)=4.62	Mu=-11.93 As =5.94 As(r)=4.62	Mu=-19.60 As =5.23 As(r)=4.62	Mu=-31.27 As =5.94 As(r)=4.62	Mu=-44.43 As =5.23 As(r)=4.62	Mu=-53.04 As =5.94 As(r)=4.62
Mu=27.01 As =2.54 As(r)=4.62	Mu=5.40 As =2.54 As(r)=4.62	Mu=5.40 As =2.54 As(r)=4.62	Mu=5.40 As =2.54 As(r)=4.62	Mu=5.40 As =3.96 As(r)=4.62	Mu=10.61 As =3.96 As(r)=4.62	Mu=10.61 As =2.54 As(r)=4.62	Mu=10.61 As =2.54 As(r)=4.62	Mu=10.61 As =2.54 As(r)=4.62	Mu=17.68 As =3.96 As(r)=4.62
Vu=32.81		Vu=-8.91		Vu=8.22	Vu=54.44		Vu=56.05		Vu=61.78

B=0.40 H=0.40 L=3.17					B=0.40 H=0.40 L=3.95				
Mu=-34.14 As =5.94 As(r)=4.62	Mu=-8.17 As =5.23 As(r)=4.62	Mu=-8.17 As =7.01 As(r)=4.62	Mu=-8.17 As =6.26 As(r)=4.62	Mu=-40.83 As =5.94 As(r)=4.62	Mu=-47.03 As =5.94 As(r)=4.62	Mu=-17.14 As =5.23 As(r)=4.62	Mu=-17.14 As =6.47 As(r)=4.62	Mu=-17.14 As =5.94 As(r)=4.62	Mu=-85.72 As =8.79 As(r)=6.88
Mu=11.38 As =5.94 As(r)=4.62	Mu=11.38 As =2.54 As(r)=4.62	Mu=26.20 As =2.54 As(r)=4.62	Mu=13.61 As =2.54 As(r)=4.62	Mu=13.61 As =5.94 As(r)=4.62	Mu=17.14 As =5.94 As(r)=4.62	Mu=17.14 As =2.54 As(r)=4.62	Mu=34.84 As =2.54 As(r)=4.62	Mu=28.57 As =2.54 As(r)=4.62	Mu=28.57 As =5.94 As(r)=4.62
Vu=55.16		Vu=-5.15		Vu=-64.87	Vu=-74.50		Vu=-10.38		Vu=96.51

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=3.80				
Mu=-100.30 As =8.79 As(r)=8.14	Mu=-20.06 As =5.23 As(r)=4.62	Mu=-20.06 As =7.08 As(r)=4.62	Mu=-20.06 As =5.94 As(r)=4.62	Mu=-84.36 As =7.92 As(r)=6.76	Mu=-76.44 As =7.92 As(r)=6.09	Mu=-19.93 As =5.23 As(r)=4.62	Mu=-15.29 As =6.47 As(r)=4.62	Mu=-15.97 As =5.94 As(r)=4.62	Mu=-69.42 As =5.94 As(r)=5.50
Mu=33.43 As =5.94 As(r)=4.62	Mu=33.43 As =2.54 As(r)=4.62	Mu=68.70 As =2.54 As(r)=5.44	Mu=28.12 As =3.96 As(r)=4.62	Mu=28.12 As =6.81 As(r)=4.62	Mu=25.48 As =6.81 As(r)=4.62	Mu=15.29 As =2.54 As(r)=4.62	Mu=15.29 As =2.54 As(r)=4.62	Mu=15.29 As =3.43 As(r)=4.62	Mu=23.14 As =6.81 As(r)=4.62
Vu=-115.92		Vu=-3.58		Vu=107.78	Vu=-77.39		Vu=-5.59		Vu=73.10

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B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=4.00				
Mu=-88.25 As =5.94 As(r)=7.09	Mu=-20.07 As =5.57 As(r)=4.62	Mu=-20.07 As =7.92 As(r)=4.62	Mu=-20.07 As =5.94 As(r)=4.62	Mu=-100.36 As =8.79 As(r)=8.14	Mu=-98.96 As =8.79 As(r)=8.02	Mu=-19.79 As =5.34 As(r)=4.62	Mu=-19.79 As =6.44 As(r)=4.62	Mu=-19.79 As =5.94 As(r)=4.62	Mu=-19.79 As =5.94 As(r)=4.62
Mu=29.42 As =6.81 As(r)=4.62	Mu=29.42 As =2.54 As(r)=4.62	Mu=67.70 As =4.03 As(r)=5.36	Mu=33.45 As =3.96 As(r)=4.62	Mu=33.45 As =5.94 As(r)=4.62	Mu=32.99 As =5.94 As(r)=4.62	Mu=32.99 As =2.54 As(r)=4.62	Mu=44.73 As =2.54 As(r)=4.62	Mu=34.24 As =3.96 As(r)=4.62	Mu=19.79 As =5.94 As(r)=4.62
Vu=-109.60		Vu=3.94		Vu=115.72	Vu=-108.84		Vu=-33.38		Vu=52.83

V-218/Piso 2

B=0.40 H=0.40 L=4.30					B=0.40 H=0.40 L=4.94				
Mu=-22.72 As =4.83 As(r)=4.62	Mu=-22.72 As =4.83 As(r)=4.62	Mu=-22.72 As =8.55 As(r)=4.62	Mu=-22.72 As =10.09 As(r)=5.71	Mu=-113.60 As =12.43 As(r)=9.32	Mu=-144.21 As =12.43 As(r)=12.14	Mu=-28.84 As =4.83 As(r)=4.62	Mu=-28.84 As =7.82 As(r)=4.62	Mu=-28.84 As =12.43 As(r)=4.62	Mu=-83.78 As =7.68 As(r)=6.71
Mu=22.72 As =5.94 As(r)=4.62	Mu=22.72 As =5.94 As(r)=4.62	Mu=22.72 As =5.94 As(r)=4.62	Mu=22.72 As =5.94 As(r)=4.62	Mu=37.87 As =5.94 As(r)=4.62	Mu=48.07 As =5.94 As(r)=4.62	Mu=48.07 As =5.94 As(r)=4.62	Mu=63.90 As =5.94 As(r)=5.04	Mu=28.84 As =5.94 As(r)=4.62	Mu=28.84 As =5.94 As(r)=4.62
Vu=15.23		Vu=-27.95		Vu=116.46	Vu=146.12		Vu=16.20		Vu=-99.58

B=0.40 H=0.40 L=3.95					B=0.40 H=0.40 L=3.95				
Mu=-81.41 As =7.68 As(r)=6.51	Mu=-16.28 As =4.83 As(r)=4.62	Mu=-16.28 As =7.16 As(r)=4.62	Mu=-16.28 As =11.00 As(r)=4.62	Mu=-48.47 As =5.94 As(r)=4.62	Mu=-53.12 As =5.94 As(r)=4.62	Mu=-16.73 As =4.83 As(r)=4.62	Mu=-16.73 As =6.47 As(r)=4.62	Mu=-16.73 As =11.73 As(r)=4.62	Mu=-83.67 As =8.79 As(r)=6.70
Mu=27.14 As =5.94 As(r)=4.62	Mu=27.14 As =5.94 As(r)=4.62	Mu=35.16 As =5.94 As(r)=4.62	Mu=16.28 As =8.61 As(r)=4.62	Mu=16.28 As =5.94 As(r)=4.62	Mu=17.71 As =5.94 As(r)=4.62	Mu=17.71 As =5.94 As(r)=4.62	Mu=31.96 As =5.94 As(r)=4.62	Mu=27.89 As =7.43 As(r)=4.62	Mu=27.89 As =5.94 As(r)=4.62
Vu=-95.04		Vu=-23.36		Vu=74.24	Vu=-76.00		Vu=-11.62		Vu=93.71

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=3.80				
Mu=-98.25 As =8.79 As(r)=7.96	Mu=-19.65 As =8.55 As(r)=4.62	Mu=-19.65 As =7.01 As(r)=4.62	Mu=-19.65 As =12.43 As(r)=4.62	Mu=-84.54 As =7.92 As(r)=6.78	Mu=-76.12 As =7.92 As(r)=6.06	Mu=-19.81 As =8.08 As(r)=4.62	Mu=-15.22 As =8.45 As(r)=4.62	Mu=-16.28 As =12.43 As(r)=4.62	Mu=-69.72 As =7.92 As(r)=5.53
Mu=32.75 As =5.94 As(r)=4.62	Mu=32.75 As =5.94 As(r)=4.62	Mu=68.69 As =7.43 As(r)=5.44	Mu=28.18 As =5.94 As(r)=4.62	Mu=28.18 As =5.94 As(r)=4.62	Mu=25.37 As =5.94 As(r)=4.62	Mu=15.22 As =5.94 As(r)=4.62	Mu=15.22 As =5.94 As(r)=4.62	Mu=15.22 As =5.94 As(r)=4.62	Mu=23.24 As =5.94 As(r)=4.62
Vu=-114.63		Vu=-3.60		Vu=107.74	Vu=-77.13		Vu=-5.88		Vu=73.24

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=4.00				
Mu=-88.10 As =7.92 As(r)=7.08	Mu=-20.14 As =8.64 As(r)=4.62	Mu=-20.14 As =7.01 As(r)=4.62	Mu=-20.14 As =12.43 As(r)=4.62	Mu=-100.71 As =8.79 As(r)=8.17	Mu=-98.86 As =8.79 As(r)=8.01	Mu=-19.77 As =8.55 As(r)=4.62	Mu=-19.77 As =6.74 As(r)=4.62	Mu=-19.77 As =12.43 As(r)=4.62	Mu=-19.77 As =5.94 As(r)=4.62
Mu=29.37 As =5.94 As(r)=4.62	Mu=29.37 As =5.94 As(r)=4.62	Mu=67.80 As =5.94 As(r)=5.37	Mu=33.57 As =5.94 As(r)=4.62	Mu=33.57 As =5.94 As(r)=4.62	Mu=32.95 As =5.94 As(r)=4.62	Mu=32.95 As =5.94 As(r)=4.62	Mu=44.78 As =6.24 As(r)=4.62	Mu=34.11 As =5.94 As(r)=4.62	Mu=19.77 As =5.94 As(r)=4.62
Vu=-109.58		Vu=4.10		Vu=116.01	Vu=-108.84		Vu=-33.32		Vu=53.14

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V-219/Piso 2

B=0.40 H=0.40 L=4.30					B=0.40 H=0.40 L=5.28				
Mu=-24.06 As =5.94 As(r)=4.62	Mu=-16.26 As =5.94 As(r)=4.62	Mu=-16.26 As =7.01 As(r)=4.62	Mu=-16.26 As =7.20 As(r)=4.62	Mu=-81.28 As =7.92 As(r)=6.50	Mu=-86.97 As =7.92 As(r)=6.98	Mu=-17.39 As =5.94 As(r)=4.62	Mu=-17.39 As =6.05 As(r)=4.62	Mu=-17.39 As =7.92 As(r)=4.62	Mu=-84.72 As =7.92 As(r)=6.79
Mu=16.26 As =5.94 As(r)=4.62	Mu=28.11 As =5.94 As(r)=4.62	Mu=44.60 As =5.94 As(r)=4.62	Mu=27.09 As =5.94 As(r)=4.62	Mu=27.09 As =5.94 As(r)=4.62	Mu=28.99 As =5.94 As(r)=4.62	Mu=28.99 As =5.94 As(r)=4.62	Mu=63.19 As =5.94 As(r)=4.99	Mu=28.24 As =5.94 As(r)=4.62	Mu=28.24 As =5.94 As(r)=4.62
Vu=-58.49		Vu=-7.72		Vu=91.39	Vu=98.27		Vu=-14.67		Vu=-100.17

B=0.40 H=0.40 L=3.95					B=0.40 H=0.40 L=3.95				
Mu=-82.74 As =7.92 As(r)=4.62	Mu=-16.55 As =5.94 As(r)=4.62	Mu=-16.55 As =6.17 As(r)=4.62	Mu=-16.55 As =7.92 As(r)=4.62	Mu=-51.68 As =5.94 As(r)=4.62	Mu=-56.04 As =5.94 As(r)=4.62	Mu=-17.57 As =5.94 As(r)=4.62	Mu=-17.57 As =6.47 As(r)=4.62	Mu=-17.57 As =7.92 As(r)=4.62	Mu=-87.84 As =8.79 As(r)=7.06
Mu=27.58 As =5.94 As(r)=4.62	Mu=27.58 As =5.94 As(r)=4.62	Mu=38.18 As =5.94 As(r)=4.62	Mu=17.23 As =8.61 As(r)=4.62	Mu=17.23 As =5.94 As(r)=4.62	Mu=18.68 As =5.94 As(r)=4.62	Mu=18.68 As =5.94 As(r)=4.62	Mu=32.80 As =5.94 As(r)=4.62	Mu=29.28 As =7.43 As(r)=4.62	Mu=29.28 As =5.94 As(r)=4.62
Vu=-98.50		Vu=-23.45		Vu=79.54	Vu=-79.46		Vu=-12.22		Vu=97.55

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=3.80				
Mu=-104.04 As =8.79 As(r)=8.47	Mu=-20.81 As =6.17 As(r)=4.62	Mu=-20.81 As =6.17 As(r)=4.62	Mu=-20.81 As =7.92 As(r)=4.62	Mu=-89.57 As =7.92 As(r)=7.21	Mu=-79.22 As =7.92 As(r)=6.32	Mu=-21.49 As =5.94 As(r)=4.62	Mu=-15.84 As =8.03 As(r)=4.62	Mu=-16.25 As =7.92 As(r)=4.62	Mu=-69.09 As =7.92 As(r)=5.47
Mu=34.68 As =5.94 As(r)=4.62	Mu=34.68 As =5.94 As(r)=4.62	Mu=73.77 As =8.02 As(r)=5.87	Mu=29.86 As =5.94 As(r)=4.62	Mu=29.86 As =5.94 As(r)=4.62	Mu=26.41 As =5.94 As(r)=4.62	Mu=15.84 As =5.94 As(r)=4.62	Mu=15.84 As =5.94 As(r)=4.62	Mu=15.84 As =5.94 As(r)=4.62	Mu=23.03 As =5.94 As(r)=4.62
Vu=-120.30		Vu=-3.78		Vu=112.74	Vu=-79.00		Vu=-6.80		Vu=72.85

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=4.00				
Mu=-87.46 As =7.92 As(r)=7.03	Mu=-20.05 As =5.94 As(r)=4.62	Mu=-20.05 As =5.94 As(r)=4.62	Mu=-20.05 As =7.92 As(r)=4.62	Mu=-100.23 As =8.79 As(r)=8.13	Mu=-97.99 As =8.79 As(r)=7.94	Mu=-19.60 As =6.17 As(r)=4.62	Mu=-19.60 As =6.51 As(r)=4.62	Mu=-19.60 As =7.92 As(r)=4.62	Mu=-19.60 As =5.94 As(r)=4.62
Mu=29.15 As =5.94 As(r)=4.62	Mu=29.15 As =5.94 As(r)=4.62	Mu=67.39 As =5.94 As(r)=5.33	Mu=33.41 As =5.94 As(r)=4.62	Mu=33.41 As =5.94 As(r)=4.62	Mu=32.66 As =5.94 As(r)=4.62	Mu=32.66 As =5.94 As(r)=4.62	Mu=44.46 As =6.24 As(r)=4.62	Mu=33.72 As =5.94 As(r)=4.62	Mu=19.60 As =5.94 As(r)=4.62
Vu=-108.94		Vu=4.28		Vu=115.35	Vu=-107.98		Vu=-32.99		Vu=52.95

V-220/Piso 2

B=0.40 H=0.40 L=3.02					B=0.40 H=0.40 L=3.95				
Mu=-11.72 As =5.94 As(r)=4.62	Mu=-7.23 As =5.94 As(r)=4.62	Mu=-7.23 As =5.94 As(r)=4.62	Mu=-7.23 As =5.94 As(r)=4.62	Mu=-36.16 As =5.94 As(r)=4.62	Mu=-39.21 As =5.94 As(r)=4.62	Mu=-14.62 As =5.94 As(r)=4.62	Mu=-14.62 As =7.01 As(r)=4.62	Mu=-14.62 As =5.94 As(r)=4.62	Mu=-73.08 As =7.92 As(r)=5.81
Mu=7.23 As =5.94 As(r)=4.62	Mu=10.69 As =5.94 As(r)=4.62	Mu=22.60 As =5.94 As(r)=4.62	Mu=12.05 As =5.94 As(r)=4.62	Mu=12.05 As =5.94 As(r)=4.62	Mu=14.62 As =5.94 As(r)=4.62	Mu=14.62 As =5.94 As(r)=4.62	Mu=26.65 As =5.94 As(r)=4.62	Mu=24.36 As =7.92 As(r)=4.62	Mu=24.36 As =5.94 As(r)=4.62
Vu=-27.60		Vu=9.51		Vu=57.91	Vu=-60.26		Vu=-9.50		Vu=80.88

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B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=3.80				
Mu=-85.80 As =7.92 As(r)=6.88	Mu=-17.16 As =5.94 As(r)=4.62	Mu=-17.16 As =6.70 As(r)=4.62	Mu=-17.16 As =5.94 As(r)=4.62	Mu=-75.12 As =5.94 As(r)=5.98	Mu=-63.30 As =5.94 As(r)=4.99	Mu=-15.19 As =5.94 As(r)=4.62	Mu=-15.19 As =7.01 As(r)=4.62	Mu=-17.88 As =5.94 As(r)=4.62	Mu=-75.95 As =7.92 As(r)=6.05
Mu=28.60 As =5.94 As(r)=4.62	Mu=28.60 As =5.94 As(r)=4.62	Mu=54.20 As =7.82 As(r)=4.62	Mu=25.04 As =5.94 As(r)=4.62	Mu=25.04 As =5.94 As(r)=4.62	Mu=21.10 As =5.94 As(r)=4.62	Mu=15.49 As =5.94 As(r)=4.62	Mu=15.49 As =5.94 As(r)=4.62	Mu=15.49 As =5.94 As(r)=4.62	Mu=25.32 As =6.81 As(r)=4.62
Vu=-129.41		Vu=-8.42		Vu=85.95	Vu=-70.87		Vu=8.07		Vu=79.06

B=0.40 H=0.40 L=5.40					B=0.40 H=0.40 L=4.00				
Mu=-95.61 As =7.92 As(r)=7.73	Mu=-21.88 As =5.94 As(r)=4.62	Mu=-21.88 As =5.94 As(r)=4.62	Mu=-21.88 As =5.94 As(r)=4.62	Mu=-109.40 As =8.79 As(r)=8.94	Mu=-102.41 As =8.79 As(r)=8.32	Mu=-20.48 As =5.94 As(r)=4.62	Mu=-20.48 As =5.94 As(r)=4.62	Mu=-20.48 As =5.94 As(r)=4.62	Mu=-20.48 As =5.94 As(r)=4.62
Mu=31.87 As =6.81 As(r)=4.62	Mu=31.87 As =5.94 As(r)=4.62	Mu=72.45 As =5.94 As(r)=5.75	Mu=36.47 As =5.94 As(r)=4.62	Mu=36.47 As =6.81 As(r)=4.62	Mu=34.14 As =6.81 As(r)=4.62	Mu=34.14 As =5.94 As(r)=4.62	Mu=46.53 As =8.12 As(r)=4.62	Mu=34.91 As =5.94 As(r)=4.62	Mu=20.48 As =5.94 As(r)=4.62
Vu=-117.52		Vu=4.46		Vu=124.40	Vu=-113.34		Vu=-34.31		Vu=55.29

V-221/Piso 2

B=0.40 H=0.40 L=4.57					B=0.40 H=0.40 L=5.53				
Mu=-10.24 As =5.94 As(r)=4.62	Mu=-7.85 As =5.94 As(r)=4.62	Mu=-7.85 As =6.44 As(r)=4.62	Mu=-14.78 As =5.94 As(r)=4.62	Mu=-39.27 As =5.94 As(r)=4.62	Mu=-37.90 As =5.94 As(r)=4.62	Mu=-7.58 As =5.94 As(r)=4.62	Mu=-7.58 As =7.08 As(r)=4.62	Mu=-7.58 As =5.94 As(r)=4.62	Mu=-33.81 As =5.94 As(r)=4.62
Mu=17.34 As =5.94 As(r)=4.62	Mu=19.81 As =5.94 As(r)=4.62	Mu=13.09 As =5.94 As(r)=4.62	Mu=13.09 As =5.94 As(r)=4.62	Mu=13.09 As =5.94 As(r)=4.62	Mu=12.63 As =5.94 As(r)=4.62	Mu=12.63 As =5.94 As(r)=4.62	Mu=34.90 As =5.94 As(r)=4.62	Mu=13.03 As =5.94 As(r)=4.62	Mu=11.27 As =5.94 As(r)=4.62
Vu=-23.05		Vu=14.30		Vu=31.20	Vu=-44.41		Vu=-7.55		Vu=43.57

B=0.40 H=0.40 L=4.20					B=0.40 H=0.40 L=4.20				
Mu=-37.03 As =5.94 As(r)=4.62	Mu=-7.41 As =5.94 As(r)=4.62	Mu=-7.41 As =6.47 As(r)=4.62	Mu=-11.23 As =5.94 As(r)=4.62	Mu=-17.61 As =5.94 As(r)=4.62	Mu=-18.61 As =5.94 As(r)=4.62	Mu=-6.43 As =5.94 As(r)=4.62	Mu=-3.72 As =7.01 As(r)=4.62	Mu=-8.65 As =5.94 As(r)=4.62	Mu=-16.60 As =5.94 As(r)=4.62
Mu=12.34 As =5.94 As(r)=4.62	Mu=7.41 As =5.94 As(r)=4.62	Mu=7.41 As =5.94 As(r)=4.62	Mu=7.41 As =5.94 As(r)=4.62	Mu=7.41 As =5.94 As(r)=4.62	Mu=6.20 As =5.94 As(r)=4.62	Mu=3.72 As =5.94 As(r)=4.62	Mu=3.72 As =5.94 As(r)=4.62	Mu=3.72 As =5.94 As(r)=4.62	Mu=5.53 As =5.94 As(r)=4.62
Vu=-54.55		Vu=7.33		Vu=11.94	Vu=-16.22		Vu=4.61		Vu=14.42

B=0.40 H=0.40 L=5.74					B=0.40 H=0.40 L=4.04				
Mu=-20.59 As =5.94 As(r)=4.62	Mu=-6.24 As =6.55 As(r)=4.62	Mu=-6.24 As =6.47 As(r)=4.62	Mu=-6.24 As =5.94 As(r)=4.62	Mu=-31.21 As =5.94 As(r)=4.62	Mu=-30.90 As =5.94 As(r)=4.62	Mu=-7.27 As =6.28 As(r)=4.62	Mu=-6.46 As =6.93 As(r)=4.62	Mu=-7.83 As =5.94 As(r)=4.62	Mu=-32.28 As =5.94 As(r)=4.62
Mu=6.86 As =5.94 As(r)=4.62	Mu=11.83 As =5.94 As(r)=4.62	Mu=20.74 As =5.94 As(r)=4.62	Mu=10.40 As =5.94 As(r)=4.62	Mu=10.40 As =5.94 As(r)=4.62	Mu=10.30 As =5.94 As(r)=4.62	Mu=10.30 As =5.94 As(r)=4.62	Mu=12.62 As =5.94 As(r)=4.62	Mu=10.76 As =5.94 As(r)=4.62	Mu=10.76 As =5.94 As(r)=4.62
Vu=-28.77		Vu=6.34		Vu=32.22	Vu=-35.59		Vu=6.58		Vu=35.10

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B=0.40 H=0.40 L=5.74					B=0.40 H=0.40 L=4.25				
Mu=-43.44 As =5.94 As(r)=4.62	Mu=-8.69 As =5.94 As(r)=4.62	Mu=-8.69 As =6.05 As(r)=4.62	Mu=-19.44 As =5.94 As(r)=4.62	Mu=-22.81 As =5.94 As(r)=4.62	Mu=-25.76 As =5.94 As(r)=4.62	Mu=-5.15 As =5.94 As(r)=4.62	Mu=-5.15 As =7.08 As(r)=4.62	Mu=-5.15 As =5.94 As(r)=4.62	Mu=-12.53 As =5.94 As(r)=4.62
Mu=14.48 As =5.94 As(r)=4.62	Mu=14.48 As =5.94 As(r)=4.62	Mu=19.50 As =5.94 As(r)=4.62	Mu=8.69 As =5.94 As(r)=4.62	Mu=8.69 As =5.94 As(r)=4.62	Mu=8.59 As =5.94 As(r)=4.62	Mu=8.59 As =5.94 As(r)=4.62	Mu=13.91 As =5.94 As(r)=4.62	Mu=15.04 As =5.94 As(r)=4.62	Mu=9.39 As =5.94 As(r)=4.62
Vu=-70.01		Vu=16.43		Vu=3.27		Vu=-22.55		Vu=-18.20	

V-222/Piso 2

B=0.40 H=0.40 L=4.00					B=0.40 H=0.40 L=4.30				
Mu=-21.39 As =3.96 As(r)=4.62	Mu=-13.95 As =3.96 As(r)=4.62	Mu=-13.95 As =6.44 As(r)=4.62	Mu=-13.95 As =5.94 As(r)=4.62	Mu=-69.74 As =5.94 As(r)=5.53	Mu=-71.66 As =5.94 As(r)=5.69	Mu=-2.10 As =3.96 As(r)=4.62	Mu=-0.00 As =6.70 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62	Mu=-0.00 As =5.94 As(r)=4.62
Mu=13.95 As =5.94 As(r)=4.62	Mu=27.55 As =5.94 As(r)=4.62	Mu=39.47 As =5.94 As(r)=4.62	Mu=23.25 As =5.94 As(r)=4.62	Mu=23.25 As =5.94 As(r)=4.62	Mu=14.33 As =5.94 As(r)=4.62	Mu=14.33 As =5.94 As(r)=4.62	Mu=41.68 As =5.94 As(r)=4.62	Mu=30.94 As =6.98 As(r)=4.62	Mu=12.18 As =5.94 As(r)=4.62
Vu=50.47		Vu=-24.48		Vu=-86.24		Vu=88.40		Vu=2.98	

VG-201/Piso 2

B=0.12 H=0.40 L=6.10					B=0.12 H=0.40 L=7.30				
Mu=-2.98 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-4.48 As =1.98 As(r)=1.39	Mu=-22.44 As =1.98 As(r)=1.79	Mu=-22.48 As =1.98 As(r)=1.79	Mu=-4.50 As =1.98 As(r)=1.39	Mu=-4.50 As =2.29 As(r)=1.39	Mu=-4.50 As =1.98 As(r)=1.39	Mu=-20.74 As =1.98 As(r)=1.64
Mu=0.46 As =1.98 As(r)=1.39	Mu=8.64 As =1.98 As(r)=1.39	Mu=12.28 As =1.98 As(r)=1.39	Mu=4.49 As =1.98 As(r)=1.39	Mu=4.49 As =1.98 As(r)=1.39	Mu=7.49 As =1.98 As(r)=1.39	Mu=7.49 As =1.98 As(r)=1.39	Mu=13.81 As =1.98 As(r)=1.39	Mu=6.91 As =1.98 As(r)=1.39	Mu=6.91 As =1.98 As(r)=1.39
Vu=-10.37		Vu=3.70		Vu=14.65		Vu=-14.57		Vu=-1.00	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-20.69 As =1.98 As(r)=1.64	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-4.14 As =2.59 As(r)=1.39	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-17.71 As =1.98 As(r)=1.39	Mu=-17.86 As =1.98 As(r)=1.41	Mu=-3.69 As =1.98 As(r)=1.39	Mu=-3.69 As =2.51 As(r)=1.39	Mu=-3.69 As =1.98 As(r)=1.39	Mu=-18.45 As =1.98 As(r)=1.45
Mu=6.90 As =1.98 As(r)=1.39	Mu=6.90 As =1.98 As(r)=1.39	Mu=9.43 As =1.98 As(r)=1.39	Mu=5.90 As =1.98 As(r)=1.39	Mu=5.90 As =1.98 As(r)=1.39	Mu=5.95 As =1.98 As(r)=1.39	Mu=5.95 As =1.98 As(r)=1.39	Mu=10.51 As =1.98 As(r)=1.39	Mu=6.15 As =1.98 As(r)=1.39	Mu=6.15 As =1.98 As(r)=1.39
Vu=-13.96		Vu=-1.09		Vu=13.38		Vu=-13.56		Vu=0.84	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-18.52 As =1.98 As(r)=1.46	Mu=-3.70 As =1.98 As(r)=1.39	Mu=-3.70 As =2.74 As(r)=1.39	Mu=-3.70 As =1.98 As(r)=1.39	Mu=-18.31 As =1.98 As(r)=1.44	Mu=-18.39 As =1.98 As(r)=1.45	Mu=-3.69 As =1.98 As(r)=1.39	Mu=-3.69 As =2.29 As(r)=1.39	Mu=-3.69 As =1.98 As(r)=1.39	Mu=-18.43 As =1.98 As(r)=1.45
Mu=6.17 As =1.98 As(r)=1.39	Mu=6.17 As =1.98 As(r)=1.39	Mu=10.29 As =1.98 As(r)=1.39	Mu=6.10 As =1.98 As(r)=1.39	Mu=6.10 As =1.98 As(r)=1.39	Mu=6.13 As =1.98 As(r)=1.39	Mu=6.13 As =1.98 As(r)=1.39	Mu=10.32 As =1.98 As(r)=1.39	Mu=6.14 As =1.98 As(r)=1.39	Mu=6.14 As =1.98 As(r)=1.39
Vu=-13.67		Vu=0.76		Vu=13.71		Vu=-13.67		Vu=0.79	

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-18.53 As =1.98 As(r)=1.46	Mu=-3.71 As =1.98 As(r)=1.39	Mu=-3.71 As =2.74 As(r)=1.39	Mu=-3.71 As =1.98 As(r)=1.39	Mu=-18.10 As =1.98 As(r)=1.43	Mu=-18.14 As =1.98 As(r)=1.43	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =2.51 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-19.83 As =1.98 As(r)=1.57
Mu=6.18 As =1.98 As(r)=1.39	Mu=6.18 As =1.98 As(r)=1.39	Mu=10.44 As =1.98 As(r)=1.39	Mu=6.03 As =1.98 As(r)=1.39	Mu=6.03 As =1.98 As(r)=1.39	Mu=6.05 As =1.98 As(r)=1.39	Mu=6.05 As =1.98 As(r)=1.39	Mu=9.83 As =1.98 As(r)=1.39	Mu=6.61 As =1.98 As(r)=1.39	Mu=6.61 As =1.98 As(r)=1.39
Vu=-13.74		Vu=-0.78		Vu=13.72	Vu=-13.55		Vu=0.96		Vu=13.99

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=2.44				
Mu=-20.24 As =1.98 As(r)=1.60	Mu=-4.05 As =1.98 As(r)=1.39	Mu=-4.05 As =2.51 As(r)=1.39	Mu=-4.05 As =1.98 As(r)=1.39	Mu=-13.15 As =1.98 As(r)=1.39	Mu=-12.11 As =1.98 As(r)=1.39	Mu=-7.58 As =1.98 As(r)=1.39	Mu=-2.49 As =1.98 As(r)=1.39	Mu=-2.42 As =1.98 As(r)=1.39	Mu=-2.42 As =1.98 As(r)=1.39
Mu=6.75 As =1.98 As(r)=1.39	Mu=6.75 As =1.98 As(r)=1.39	Mu=12.88 As =1.98 As(r)=1.39	Mu=4.38 As =2.13 As(r)=1.39	Mu=4.38 As =1.98 As(r)=1.39	Mu=4.04 As =1.98 As(r)=1.39	Mu=2.42 As =1.98 As(r)=1.39	Mu=2.42 As =1.98 As(r)=1.39	Mu=2.42 As =1.98 As(r)=1.39	Mu=2.42 As =1.98 As(r)=1.39
Vu=-14.71		Vu=-1.46		Vu=13.48	Vu=-8.13		Vu=-5.42		Vu=2.08

VG-202/Piso 2

B=0.12 H=0.40 L=6.10					B=0.12 H=0.40 L=7.30				
Mu=-2.73 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-6.07 As =1.98 As(r)=1.39	Mu=-25.01 As =1.98 As(r)=2.00	Mu=-24.99 As =1.98 As(r)=2.00	Mu=-5.00 As =1.98 As(r)=1.39	Mu=-5.00 As =2.29 As(r)=1.39	Mu=-5.00 As =1.98 As(r)=1.39	Mu=-23.43 As =1.98 As(r)=1.87
Mu=0.10 As =1.98 As(r)=1.39	Mu=10.32 As =1.98 As(r)=1.39	Mu=14.40 As =1.98 As(r)=1.39	Mu=5.00 As =1.98 As(r)=1.39	Mu=5.00 As =1.98 As(r)=1.39	Mu=8.33 As =1.98 As(r)=1.39	Mu=8.33 As =1.98 As(r)=1.39	Mu=17.07 As =1.98 As(r)=1.39	Mu=7.81 As =1.98 As(r)=1.39	Mu=7.81 As =1.98 As(r)=1.39
Vu=-11.97		Vu=4.20		Vu=15.06	Vu=-15.06		Vu=-1.61		Vu=14.91

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-23.36 As =1.98 As(r)=1.86	Mu=-5.27 As =1.98 As(r)=1.39	Mu=-4.67 As =2.59 As(r)=1.39	Mu=-4.67 As =1.98 As(r)=1.39	Mu=-19.99 As =1.98 As(r)=1.58	Mu=-20.11 As =1.98 As(r)=1.59	Mu=-4.15 As =1.98 As(r)=1.39	Mu=-4.15 As =2.51 As(r)=1.39	Mu=-4.15 As =1.98 As(r)=1.39	Mu=-20.76 As =1.98 As(r)=1.64
Mu=7.79 As =1.98 As(r)=1.39	Mu=7.79 As =1.98 As(r)=1.39	Mu=11.56 As =1.98 As(r)=1.39	Mu=6.66 As =1.98 As(r)=1.39	Mu=6.66 As =1.98 As(r)=1.39	Mu=6.70 As =1.98 As(r)=1.39	Mu=6.70 As =1.98 As(r)=1.39	Mu=12.73 As =1.98 As(r)=1.39	Mu=6.92 As =1.98 As(r)=1.39	Mu=6.92 As =1.98 As(r)=1.39
Vu=-14.64		Vu=-1.13		Vu=14.05	Vu=-14.28		Vu=0.83		Vu=14.43

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-20.80 As =1.98 As(r)=1.65	Mu=-4.16 As =1.98 As(r)=1.39	Mu=-4.16 As =2.74 As(r)=1.39	Mu=-4.16 As =1.98 As(r)=1.39	Mu=-20.59 As =1.98 As(r)=1.63	Mu=-20.64 As =1.98 As(r)=1.64	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-4.14 As =2.29 As(r)=1.39	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-20.69 As =1.98 As(r)=1.64
Mu=6.93 As =1.98 As(r)=1.39	Mu=6.93 As =1.98 As(r)=1.39	Mu=12.49 As =1.98 As(r)=1.39	Mu=6.86 As =1.98 As(r)=1.39	Mu=6.86 As =1.98 As(r)=1.39	Mu=6.88 As =1.98 As(r)=1.39	Mu=6.88 As =1.98 As(r)=1.39	Mu=12.52 As =1.98 As(r)=1.39	Mu=6.90 As =1.98 As(r)=1.39	Mu=6.90 As =1.98 As(r)=1.39
Vu=-14.35		Vu=-0.74		Vu=14.35	Vu=-14.33		Vu=0.76		Vu=14.38

PARQUEADERO SAN JUAN DE CASTILLA

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-20.76 As =1.98 As(r)=1.64	Mu=-4.15 As =1.98 As(r)=1.39	Mu=-4.15 As =2.74 As(r)=1.39	Mu=-4.15 As =1.98 As(r)=1.39	Mu=-20.34 As =1.98 As(r)=1.61	Mu=-20.35 As =1.98 As(r)=1.61	Mu=-4.45 As =1.98 As(r)=1.39	Mu=-4.45 As =2.51 As(r)=1.39	Mu=-4.45 As =1.98 As(r)=1.39	Mu=-22.23 As =1.98 As(r)=1.77
Mu=6.92 As =1.98 As(r)=1.39	Mu=6.92 As =1.98 As(r)=1.39	Mu=12.63 As =1.98 As(r)=1.39	Mu=6.78 As =1.98 As(r)=1.39	Mu=6.78 As =1.98 As(r)=1.39	Mu=6.78 As =1.98 As(r)=1.39	Mu=6.78 As =1.98 As(r)=1.39	Mu=12.00 As =1.98 As(r)=1.39	Mu=7.41 As =1.98 As(r)=1.39	Mu=7.41 As =1.98 As(r)=1.39
Vu=-14.38		Vu=-0.76		Vu=14.34	Vu=-14.18		Vu=0.95		Vu=14.57

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=2.05				
Mu=-22.83 As =1.98 As(r)=1.82	Mu=-4.57 As =1.98 As(r)=1.39	Mu=-4.57 As =2.74 As(r)=1.39	Mu=-4.57 As =1.98 As(r)=1.39	Mu=-13.68 As =1.98 As(r)=1.39	Mu=-11.64 As =1.98 As(r)=1.39	Mu=-8.33 As =1.98 As(r)=1.39	Mu=-4.46 As =1.98 As(r)=1.39	Mu=-2.32 As =1.98 As(r)=1.39	Mu=-2.50 As =1.98 As(r)=1.39
Mu=7.61 As =1.98 As(r)=1.39	Mu=7.61 As =1.98 As(r)=1.39	Mu=15.18 As =1.98 As(r)=1.39	Mu=4.57 As =2.13 As(r)=1.39	Mu=4.57 As =1.98 As(r)=1.39	Mu=2.33 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-15.60		Vu=-1.66		Vu=14.03	Vu=-6.82		Vu=-4.73		Vu=0.96

VG-203/Piso 2

B=0.12 H=0.40 L=6.10					B=0.12 H=0.40 L=7.30				
Mu=-5.82 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-6.11 As =2.85 As(r)=1.60	Mu=-35.32 As =2.85 As(r)=2.91	Mu=-35.48 As =2.85 As(r)=2.92	Mu=-7.10 As =2.85 As(r)=1.39	Mu=-7.10 As =3.56 As(r)=1.39	Mu=-7.10 As =2.85 As(r)=1.39	Mu=-33.77 As =2.85 As(r)=2.77
Mu=0.00 As =1.98 As(r)=1.39	Mu=11.21 As =1.98 As(r)=1.39	Mu=17.81 As =1.98 As(r)=1.52	Mu=7.06 As =1.98 As(r)=1.39	Mu=7.06 As =1.98 As(r)=1.39	Mu=11.83 As =1.98 As(r)=1.39	Mu=11.83 As =1.98 As(r)=1.39	Mu=21.35 As =1.98 As(r)=1.69	Mu=11.26 As =1.98 As(r)=1.39	Mu=11.26 As =1.98 As(r)=1.39
Vu=-14.61		Vu=4.15		Vu=22.66	Vu=-22.71		Vu=-1.89		Vu=22.35

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-33.23 As =2.85 As(r)=2.72	Mu=-6.65 As =2.85 As(r)=1.40	Mu=-6.65 As =3.48 As(r)=1.39	Mu=-6.65 As =2.85 As(r)=1.39	Mu=-28.97 As =2.85 As(r)=2.34	Mu=-29.15 As =2.85 As(r)=2.36	Mu=-5.99 As =2.85 As(r)=1.39	Mu=-5.99 As =3.56 As(r)=1.39	Mu=-5.99 As =2.85 As(r)=1.39	Mu=-29.93 As =2.85 As(r)=2.43
Mu=11.08 As =1.98 As(r)=1.39	Mu=11.08 As =1.98 As(r)=1.39	Mu=15.27 As =1.98 As(r)=1.39	Mu=9.66 As =1.98 As(r)=1.39	Mu=9.66 As =1.98 As(r)=1.39	Mu=9.72 As =1.98 As(r)=1.39	Mu=9.72 As =1.98 As(r)=1.39	Mu=16.52 As =1.98 As(r)=1.39	Mu=9.98 As =1.98 As(r)=1.39	Mu=9.98 As =1.98 As(r)=1.39
Vu=-21.76		Vu=-1.06		Vu=20.67	Vu=-20.91		Vu=0.75		Vu=21.14

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.96 As =2.85 As(r)=2.43	Mu=-5.99 As =2.85 As(r)=1.39	Mu=-5.99 As =3.84 As(r)=1.39	Mu=-5.99 As =2.85 As(r)=1.39	Mu=-29.70 As =2.85 As(r)=2.41	Mu=-29.76 As =2.85 As(r)=2.41	Mu=-5.96 As =2.85 As(r)=1.39	Mu=-5.96 As =3.29 As(r)=1.39	Mu=-5.96 As =2.85 As(r)=1.39	Mu=-29.79 As =2.85 As(r)=2.42
Mu=9.99 As =1.98 As(r)=1.39	Mu=9.99 As =1.98 As(r)=1.39	Mu=16.26 As =1.98 As(r)=1.39	Mu=9.90 As =1.98 As(r)=1.39	Mu=9.90 As =1.98 As(r)=1.39	Mu=9.92 As =1.98 As(r)=1.39	Mu=9.92 As =1.98 As(r)=1.39	Mu=16.29 As =1.98 As(r)=1.39	Mu=9.93 As =1.98 As(r)=1.39	Mu=9.93 As =1.98 As(r)=1.39
Vu=-21.06		Vu=-0.66		Vu=21.02	Vu=-21.00		Vu=0.69		Vu=21.04

PARQUEADERO SAN JUAN DE CASTILLA

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.87 As =2.85 As(r)=2.42	Mu=-5.97 As =2.85 As(r)=1.39	Mu=-5.97 As =3.84 As(r)=1.39	Mu=-5.97 As =2.85 As(r)=1.39	Mu=-29.36 As =2.85 As(r)=2.38	Mu=-29.35 As =2.85 As(r)=2.38	Mu=-6.32 As =2.85 As(r)=1.39	Mu=-6.32 As =3.56 As(r)=1.39	Mu=-6.32 As =2.85 As(r)=1.39	Mu=-31.60 As =2.85 As(r)=2.57
Mu=9.96 As =1.98 As(r)=1.39	Mu=9.96 As =1.98 As(r)=1.39	Mu=16.40 As =1.98 As(r)=1.39	Mu=9.79 As =1.98 As(r)=1.39	Mu=9.79 As =1.98 As(r)=1.39	Mu=9.78 As =1.98 As(r)=1.39	Mu=9.78 As =1.98 As(r)=1.39	Mu=15.76 As =1.98 As(r)=1.39	Mu=10.53 As =1.98 As(r)=1.39	Mu=10.53 As =1.98 As(r)=1.39
Vu=-21.04		Vu=-0.68		Vu=20.94	Vu=-20.76		Vu=0.85		Vu=21.52

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=1.65				
Mu=-32.60 As =2.85 As(r)=2.66	Mu=-6.52 As =2.85 As(r)=1.39	Mu=-6.52 As =3.50 As(r)=1.39	Mu=-6.52 As =2.85 As(r)=1.39	Mu=-20.13 As =2.85 As(r)=1.59	Mu=-17.83 As =1.98 As(r)=1.40	Mu=-12.30 As =2.85 As(r)=1.39	Mu=-5.59 As =1.98 As(r)=1.39	Mu=-2.16 As =2.85 As(r)=1.39	Mu=-1.56 As =1.98 As(r)=1.39
Mu=10.87 As =1.98 As(r)=1.39	Mu=10.87 As =1.98 As(r)=1.39	Mu=18.79 As =1.98 As(r)=1.48	Mu=6.71 As =2.13 As(r)=1.39	Mu=6.71 As =1.98 As(r)=1.39	Mu=3.57 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-22.87		Vu=-1.68		Vu=19.18	Vu=-12.70		Vu=-8.95		Vu=-2.10

VG-204/Piso 2

B=0.12 H=0.40 L=6.10					B=0.12 H=0.40 L=7.30				
Mu=-6.52 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-6.14 As =2.85 As(r)=1.56	Mu=-34.38 As =2.85 As(r)=2.82	Mu=-34.13 As =2.85 As(r)=2.80	Mu=-6.83 As =2.85 As(r)=1.39	Mu=-6.83 As =3.56 As(r)=1.39	Mu=-6.83 As =2.85 As(r)=1.39	Mu=-33.54 As =2.85 As(r)=2.75
Mu=0.00 As =1.98 As(r)=1.39	Mu=10.05 As =1.98 As(r)=1.39	Mu=16.89 As =1.98 As(r)=1.42	Mu=6.88 As =1.98 As(r)=1.39	Mu=6.88 As =1.98 As(r)=1.39	Mu=11.38 As =1.98 As(r)=1.39	Mu=11.38 As =1.98 As(r)=1.39	Mu=21.82 As =1.98 As(r)=1.73	Mu=11.18 As =1.98 As(r)=1.39	Mu=11.18 As =1.98 As(r)=1.39
Vu=-14.25		Vu=3.88		Vu=21.95	Vu=-22.33		Vu=-1.67		Vu=22.20

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-33.13 As =2.85 As(r)=2.71	Mu=-6.63 As =2.85 As(r)=1.41	Mu=-6.63 As =3.48 As(r)=1.39	Mu=-6.63 As =2.85 As(r)=1.39	Mu=-28.49 As =2.85 As(r)=2.30	Mu=-28.63 As =2.85 As(r)=2.31	Mu=-5.91 As =2.85 As(r)=1.39	Mu=-5.91 As =3.56 As(r)=1.39	Mu=-5.91 As =2.85 As(r)=1.39	Mu=-29.53 As =2.85 As(r)=2.39
Mu=11.04 As =1.98 As(r)=1.39	Mu=11.04 As =1.98 As(r)=1.39	Mu=14.81 As =1.98 As(r)=1.39	Mu=9.50 As =1.98 As(r)=1.39	Mu=9.50 As =1.98 As(r)=1.39	Mu=9.54 As =1.98 As(r)=1.39	Mu=9.54 As =1.98 As(r)=1.39	Mu=16.35 As =1.98 As(r)=1.39	Mu=9.84 As =1.98 As(r)=1.39	Mu=9.84 As =1.98 As(r)=1.39
Vu=-21.43		Vu=-1.01		Vu=20.31	Vu=-20.60		Vu=0.65		Vu=20.88

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.56 As =2.85 As(r)=2.39	Mu=-5.91 As =2.85 As(r)=1.39	Mu=-5.91 As =3.84 As(r)=1.39	Mu=-5.91 As =2.85 As(r)=1.39	Mu=-29.33 As =2.85 As(r)=2.38	Mu=-29.38 As =2.85 As(r)=2.38	Mu=-5.89 As =2.85 As(r)=1.39	Mu=-5.89 As =3.29 As(r)=1.39	Mu=-5.89 As =2.85 As(r)=1.39	Mu=-29.45 As =2.85 As(r)=2.39
Mu=9.85 As =1.98 As(r)=1.39	Mu=9.85 As =1.98 As(r)=1.39	Mu=16.04 As =1.98 As(r)=1.39	Mu=9.78 As =1.98 As(r)=1.39	Mu=9.78 As =1.98 As(r)=1.39	Mu=9.79 As =1.98 As(r)=1.39	Mu=9.79 As =1.98 As(r)=1.39	Mu=16.09 As =1.98 As(r)=1.39	Mu=9.82 As =1.98 As(r)=1.39	Mu=9.82 As =1.98 As(r)=1.39
Vu=-20.79		Vu=-0.56		Vu=20.78	Vu=-20.76		Vu=0.58		Vu=20.83

PARQUEADERO SAN JUAN DE CASTILLA

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.52 As =2.85 As(r)=2.39	Mu=-5.90 As =2.85 As(r)=1.39	Mu=-5.90 As =3.84 As(r)=1.39	Mu=-5.90 As =2.85 As(r)=1.39	Mu=-29.08 As =2.85 As(r)=2.35	Mu=-29.00 As =2.85 As(r)=2.35	Mu=-6.41 As =2.85 As(r)=1.39	Mu=-6.41 As =3.56 As(r)=1.39	Mu=-6.41 As =2.85 As(r)=1.39	Mu=-32.06 As =2.85 As(r)=2.62
Mu=9.84 As =1.98 As(r)=1.39	Mu=9.84 As =1.98 As(r)=1.39	Mu=16.19 As =1.98 As(r)=1.39	Mu=9.69 As =1.98 As(r)=1.39	Mu=9.69 As =1.98 As(r)=1.39	Mu=9.67 As =1.98 As(r)=1.39	Mu=9.67 As =1.98 As(r)=1.39	Mu=15.48 As =1.98 As(r)=1.39	Mu=10.69 As =1.98 As(r)=1.39	Mu=10.69 As =1.98 As(r)=1.39
Vu=-20.83		Vu=-0.58		Vu=20.76	Vu=-20.56		Vu=0.76		Vu=21.77

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=0.84				
Mu=-34.07 As =2.85 As(r)=2.79	Mu=-6.81 As =2.85 As(r)=1.39	Mu=-6.81 As =3.57 As(r)=1.39	Mu=-6.81 As =2.85 As(r)=1.39	Mu=-19.77 As =1.98 As(r)=1.56	Mu=-17.88 As =1.98 As(r)=1.41	Mu=-14.15 As =2.85 As(r)=1.39	Mu=-8.13 As =1.98 As(r)=1.39	Mu=-2.77 As =2.85 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39
Mu=11.36 As =1.98 As(r)=1.39	Mu=11.36 As =1.98 As(r)=1.39	Mu=19.77 As =1.98 As(r)=1.56	Mu=7.93 As =2.13 As(r)=1.39	Mu=6.81 As =1.98 As(r)=1.39	Mu=3.58 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=1.60 As =1.98 As(r)=1.39
Vu=-24.84		Vu=-1.86		Vu=20.46	Vu=-15.27		Vu=-14.20		Vu=-3.85

VG-205/Piso 2

B=0.12 H=0.40 L=6.10					B=0.12 H=0.40 L=7.30				
Mu=-4.49 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-6.27 As =1.98 As(r)=1.39	Mu=-23.27 As =1.98 As(r)=1.86	Mu=-22.95 As =1.98 As(r)=1.83	Mu=-4.73 As =1.98 As(r)=1.39	Mu=-4.73 As =2.29 As(r)=1.39	Mu=-4.73 As =1.98 As(r)=1.39	Mu=-23.63 As =1.98 As(r)=1.89
Mu=0.00 As =1.98 As(r)=1.39	Mu=7.75 As =1.98 As(r)=1.39	Mu=12.63 As =1.98 As(r)=1.39	Mu=4.65 As =1.98 As(r)=1.39	Mu=4.65 As =1.98 As(r)=1.39	Mu=7.65 As =1.98 As(r)=1.39	Mu=7.65 As =1.98 As(r)=1.39	Mu=18.77 As =1.98 As(r)=1.48	Mu=7.88 As =1.98 As(r)=1.39	Mu=7.88 As =1.98 As(r)=1.39
Vu=-10.77		Vu=10.77		Vu=13.61	Vu=-14.69		Vu=-14.69		Vu=14.77

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-23.59 As =1.98 As(r)=1.88	Mu=-6.27 As =1.98 As(r)=1.39	Mu=-4.72 As =2.59 As(r)=1.39	Mu=-4.72 As =1.98 As(r)=1.39	Mu=-19.39 As =1.98 As(r)=1.53	Mu=-19.49 As =1.98 As(r)=1.54	Mu=-4.06 As =1.98 As(r)=1.39	Mu=-4.06 As =2.51 As(r)=1.39	Mu=-4.06 As =1.98 As(r)=1.39	Mu=-20.31 As =1.98 As(r)=1.61
Mu=7.86 As =1.98 As(r)=1.39	Mu=7.86 As =1.98 As(r)=1.39	Mu=11.10 As =1.98 As(r)=1.39	Mu=6.46 As =1.98 As(r)=1.39	Mu=6.46 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=12.83 As =1.98 As(r)=1.39	Mu=6.77 As =1.98 As(r)=1.39	Mu=6.77 As =1.98 As(r)=1.39
Vu=-14.02		Vu=-1.02		Vu=13.40	Vu=-13.78		Vu=0.60		Vu=13.91

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-20.32 As =1.98 As(r)=1.61	Mu=-4.06 As =1.98 As(r)=1.39	Mu=-4.06 As =2.74 As(r)=1.39	Mu=-4.06 As =1.98 As(r)=1.39	Mu=-20.13 As =1.98 As(r)=1.59	Mu=-20.15 As =1.98 As(r)=1.59	Mu=-4.04 As =1.98 As(r)=1.39	Mu=-4.04 As =2.29 As(r)=1.39	Mu=-4.04 As =1.98 As(r)=1.39	Mu=-20.20 As =1.98 As(r)=1.60
Mu=6.77 As =1.98 As(r)=1.39	Mu=6.77 As =1.98 As(r)=1.39	Mu=12.47 As =1.98 As(r)=1.39	Mu=6.71 As =1.98 As(r)=1.39	Mu=6.71 As =1.98 As(r)=1.39	Mu=6.72 As =1.98 As(r)=1.39	Mu=6.72 As =1.98 As(r)=1.39	Mu=12.54 As =1.98 As(r)=1.39	Mu=6.73 As =1.98 As(r)=1.39	Mu=6.73 As =1.98 As(r)=1.39
Vu=-13.82		Vu=-0.50		Vu=13.81	Vu=-13.81		Vu=0.51		Vu=13.84

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-20.25 As =1.98 As(r)=1.60	Mu=-4.05 As =1.98 As(r)=1.39	Mu=-4.05 As =2.74 As(r)=1.39	Mu=-4.05 As =1.98 As(r)=1.39	Mu=-19.93 As =1.98 As(r)=1.58	Mu=-19.82 As =1.98 As(r)=1.57	Mu=-4.43 As =1.98 As(r)=1.39	Mu=-4.43 As =2.51 As(r)=1.39	Mu=-4.43 As =1.98 As(r)=1.39	Mu=-22.17 As =1.98 As(r)=1.76
Mu=6.75 As =1.98 As(r)=1.39	Mu=6.75 As =1.98 As(r)=1.39	Mu=12.61 As =1.98 As(r)=1.39	Mu=6.64 As =1.98 As(r)=1.39	Mu=6.64 As =1.98 As(r)=1.39	Mu=6.61 As =1.98 As(r)=1.39	Mu=6.61 As =1.98 As(r)=1.39	Mu=11.85 As =1.98 As(r)=1.39	Mu=7.39 As =1.98 As(r)=1.39	Mu=7.39 As =1.98 As(r)=1.39
Vu=-13.85		Vu=-0.52		Vu=13.81	Vu=-13.64		Vu=0.75		Vu=13.92

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=0.42				
Mu=-23.50 As =1.98 As(r)=1.87	Mu=-4.70 As =1.98 As(r)=1.39	Mu=-4.70 As =2.82 As(r)=1.39	Mu=-4.70 As =1.98 As(r)=1.39	Mu=-11.25 As =1.98 As(r)=1.39	Mu=-7.36 As =1.98 As(r)=1.39	Mu=-7.24 As =1.98 As(r)=1.39	Mu=-7.06 As =1.98 As(r)=1.39	Mu=-7.07 As =1.98 As(r)=1.39	Mu=-7.15 As =1.98 As(r)=1.39
Mu=7.83 As =1.98 As(r)=1.39	Mu=7.83 As =1.98 As(r)=1.39	Mu=18.01 As =1.98 As(r)=1.42	Mu=8.39 As =2.13 As(r)=1.39	Mu=4.70 As =1.98 As(r)=1.39	Mu=2.45 As =1.98 As(r)=1.39	Mu=1.47 As =1.98 As(r)=1.39	Mu=1.47 As =1.98 As(r)=1.39	Mu=1.47 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39
Vu=-16.32		Vu=-2.45		Vu=15.36	Vu=-2.06		Vu=-0.70		Vu=-1.30

VG-206/Piso 2

B=0.12 H=0.40 L=5.63					B=0.12 H=0.40 L=7.30				
Mu=-2.84 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-7.25 As =1.98 As(r)=1.39	Mu=-21.24 As =1.98 As(r)=1.68	Mu=-21.25 As =1.98 As(r)=1.69	Mu=-4.68 As =1.98 As(r)=1.39	Mu=-4.68 As =2.29 As(r)=1.39	Mu=-4.68 As =1.98 As(r)=1.39	Mu=-23.42 As =1.98 As(r)=1.87
Mu=0.00 As =1.98 As(r)=1.39	Mu=7.42 As =1.98 As(r)=1.39	Mu=9.53 As =1.98 As(r)=1.39	Mu=4.25 As =1.98 As(r)=1.39	Mu=4.25 As =1.98 As(r)=1.39	Mu=7.08 As =1.98 As(r)=1.39	Mu=7.08 As =1.98 As(r)=1.39	Mu=18.71 As =1.98 As(r)=1.48	Mu=7.81 As =1.98 As(r)=1.39	Mu=7.81 As =1.98 As(r)=1.39
Vu=-8.19		Vu=5.28		Vu=12.72	Vu=-14.26		Vu=-14.26		Vu=14.66

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-23.35 As =1.98 As(r)=1.86	Mu=-6.34 As =1.98 As(r)=1.39	Mu=-4.67 As =1.98 As(r)=1.39	Mu=-4.67 As =1.98 As(r)=1.39	Mu=-18.87 As =1.98 As(r)=1.49	Mu=-18.98 As =1.98 As(r)=1.50	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-19.85 As =1.98 As(r)=1.57
Mu=7.78 As =1.98 As(r)=1.39	Mu=7.78 As =1.98 As(r)=1.39	Mu=10.67 As =1.98 As(r)=1.39	Mu=6.29 As =1.98 As(r)=1.39	Mu=6.29 As =1.98 As(r)=1.39	Mu=6.33 As =1.98 As(r)=1.39	Mu=6.33 As =1.98 As(r)=1.39	Mu=12.51 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39
Vu=-13.82		Vu=-1.07		Vu=13.14	Vu=-13.55		Vu=0.63		Vu=13.68

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-19.85 As =1.98 As(r)=1.57	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-19.65 As =1.98 As(r)=1.55	Mu=-19.67 As =1.98 As(r)=1.55	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-19.69 As =1.98 As(r)=1.56
Mu=6.62 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39	Mu=12.12 As =1.98 As(r)=1.39	Mu=6.55 As =1.98 As(r)=1.39	Mu=6.55 As =1.98 As(r)=1.39	Mu=6.56 As =1.98 As(r)=1.39	Mu=6.56 As =1.98 As(r)=1.39	Mu=12.20 As =1.98 As(r)=1.39	Mu=6.56 As =1.98 As(r)=1.39	Mu=6.56 As =1.98 As(r)=1.39
Vu=-13.58		Vu=-0.52		Vu=13.56	Vu=-13.57		Vu=0.53		Vu=13.58

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-19.73 As =1.98 As(r)=1.56	Mu=-3.95 As =1.98 As(r)=1.39	Mu=-3.95 As =1.98 As(r)=1.39	Mu=-3.95 As =1.98 As(r)=1.39	Mu=-19.49 As =1.98 As(r)=1.54	Mu=-19.37 As =1.98 As(r)=1.53	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-21.53 As =1.98 As(r)=1.71
Mu=6.58 As =1.98 As(r)=1.39	Mu=6.58 As =1.98 As(r)=1.39	Mu=12.23 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=6.46 As =1.98 As(r)=1.39	Mu=6.46 As =1.98 As(r)=1.39	Mu=11.61 As =1.98 As(r)=1.39	Mu=7.18 As =2.72 As(r)=1.39	Mu=7.18 As =1.98 As(r)=1.39
Vu=-13.58		Vu=-0.53		Vu=13.55	Vu=-13.42		Vu=0.75		Vu=13.65

B=0.12 H=0.40 L=6.60				
Mu=-22.92 As =1.98 As(r)=1.83	Mu=-4.58 As =1.98 As(r)=1.39	Mu=-4.58 As =1.98 As(r)=1.39	Mu=-4.58 As =1.98 As(r)=1.39	Mu=-9.27 As =1.98 As(r)=1.39
Mu=7.64 As =1.98 As(r)=1.39	Mu=7.64 As =1.98 As(r)=1.39	Mu=17.63 As =1.98 As(r)=1.40	Mu=9.30 As =2.13 As(r)=1.39	Mu=4.58 As =1.98 As(r)=1.39
Vu=-15.95		Vu=-2.51		Vu=14.14

VG-207/Piso 2

B=0.12 H=0.40 L=5.17					B=0.12 H=0.40 L=7.30				
Mu=-5.64 As =2.85 As(r)=1.39	Mu=-5.64 As =2.85 As(r)=1.39	Mu=-5.64 As =2.85 As(r)=1.39	Mu=-7.90 As =2.85 As(r)=1.39	Mu=-28.19 As =2.85 As(r)=2.28	Mu=-29.00 As =2.85 As(r)=2.35	Mu=-6.58 As =2.85 As(r)=1.39	Mu=-6.58 As =2.85 As(r)=1.39	Mu=-6.58 As =2.85 As(r)=1.39	Mu=-32.88 As =2.85 As(r)=2.69
Mu=5.64 As =1.98 As(r)=1.39	Mu=6.04 As =1.98 As(r)=1.39	Mu=9.40 As =1.98 As(r)=1.39	Mu=9.40 As =1.98 As(r)=1.39	Mu=9.40 As =1.98 As(r)=1.39	Mu=9.67 As =1.98 As(r)=1.39	Mu=9.67 As =1.98 As(r)=1.39	Mu=21.93 As =1.98 As(r)=1.74	Mu=10.96 As =1.98 As(r)=1.39	Mu=10.96 As =1.98 As(r)=1.39
Vu=-9.62		Vu=3.49		Vu=18.88	Vu=-20.65		Vu=-1.11		Vu=21.68

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-32.30 As =2.85 As(r)=2.64	Mu=-6.46 As =2.85 As(r)=1.39	Mu=-6.46 As =3.56 As(r)=1.39	Mu=-6.46 As =2.85 As(r)=1.39	Mu=-26.79 As =2.85 As(r)=2.15	Mu=-26.97 As =2.85 As(r)=2.17	Mu=-5.61 As =2.85 As(r)=1.39	Mu=-5.61 As =3.84 As(r)=1.39	Mu=-5.61 As =2.85 As(r)=1.39	Mu=-28.05 As =2.85 As(r)=2.26
Mu=10.77 As =1.98 As(r)=1.39	Mu=10.77 As =1.98 As(r)=1.39	Mu=13.63 As =1.98 As(r)=1.39	Mu=8.93 As =1.98 As(r)=1.39	Mu=8.93 As =1.98 As(r)=1.39	Mu=8.99 As =1.98 As(r)=1.39	Mu=8.99 As =1.98 As(r)=1.39	Mu=15.50 As =1.98 As(r)=1.39	Mu=9.35 As =1.98 As(r)=1.39	Mu=9.35 As =1.98 As(r)=1.39
Vu=-20.67		Vu=-1.17		Vu=19.33	Vu=-19.72		Vu=0.74		Vu=19.99

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-28.05 As =2.85 As(r)=2.26	Mu=-5.61 As =2.85 As(r)=1.39	Mu=-5.61 As =3.56 As(r)=1.39	Mu=-5.61 As =2.85 As(r)=1.39	Mu=-27.79 As =2.85 As(r)=2.24	Mu=-27.82 As =2.85 As(r)=2.24	Mu=-5.56 As =2.85 As(r)=1.39	Mu=-5.56 As =3.56 As(r)=1.39	Mu=-5.56 As =2.85 As(r)=1.39	Mu=-27.81 As =2.85 As(r)=2.24
Mu=9.35 As =1.98 As(r)=1.39	Mu=9.35 As =1.98 As(r)=1.39	Mu=15.11 As =1.98 As(r)=1.39	Mu=9.26 As =1.98 As(r)=1.39	Mu=9.26 As =1.98 As(r)=1.39	Mu=9.27 As =1.98 As(r)=1.39	Mu=9.27 As =1.98 As(r)=1.39	Mu=15.19 As =1.98 As(r)=1.39	Mu=9.27 As =1.98 As(r)=1.39	Mu=9.27 As =1.98 As(r)=1.39
Vu=-19.90		Vu=-0.62		Vu=19.84	Vu=-19.85		Vu=0.63		Vu=19.85

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-27.84 As =2.85 As(r)=2.25	Mu=-5.57 As =2.85 As(r)=1.39	Mu=-5.57 As =3.56 As(r)=1.39	Mu=-5.57 As =2.85 As(r)=1.39	Mu=-27.66 As =2.85 As(r)=2.23	Mu=-27.58 As =2.85 As(r)=2.22	Mu=-6.01 As =2.85 As(r)=1.39	Mu=-6.01 As =3.29 As(r)=1.39	Mu=-6.01 As =2.85 As(r)=1.39	Mu=-30.05 As =2.85 As(r)=2.44
Mu=9.28 As =1.98 As(r)=1.39	Mu=9.28 As =1.98 As(r)=1.39	Mu=15.16 As =1.98 As(r)=1.39	Mu=9.22 As =1.98 As(r)=1.39	Mu=9.22 As =1.98 As(r)=1.39	Mu=9.19 As =1.98 As(r)=1.39	Mu=9.19 As =1.98 As(r)=1.39	Mu=14.91 As =1.98 As(r)=1.39	Mu=10.02 As =2.72 As(r)=1.39	Mu=10.02 As =1.98 As(r)=1.39
Vu=-19.84		Vu=0.64		Vu=19.77	Vu=-19.71		Vu=0.73		Vu=20.75

B=0.12 H=0.40 L=6.59				
Mu=-32.12 As =2.85 As(r)=2.62	Mu=-6.42 As =2.85 As(r)=1.39	Mu=-6.42 As =3.14 As(r)=1.39	Mu=-6.42 As =2.85 As(r)=1.39	Mu=-11.07 As =1.98 As(r)=1.39
Mu=10.71 As =1.98 As(r)=1.39	Mu=10.71 As =1.98 As(r)=1.39	Mu=18.77 As =1.98 As(r)=1.48	Mu=8.72 As =2.72 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39
Vu=-23.49		Vu=-2.16		Vu=13.95

VG-208/Piso 2

B=0.12 H=0.40 L=1.38				
Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =0.95 As(r)=1.39
Mu=3.40 As =1.27 As(r)=1.39	Mu=4.62 As =1.27 As(r)=1.39	Mu=5.81 As =1.27 As(r)=1.39	Mu=4.42 As =1.27 As(r)=1.39	Mu=2.22 As =0.95 As(r)=1.39
Vu=-4.01		Vu=2.72		Vu=7.19

VG-209/Piso 2

B=0.12 H=0.40 L=2.64				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-9.50 As =1.98 As(r)=1.39	Mu=-18.47 As =1.98 As(r)=1.67	Mu=-23.27 As =1.98 As(r)=1.86
Mu=5.95 As =0.50 As(r)=1.39	Mu=0.70 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=4.65 As =1.98 As(r)=1.39
Vu=13.34		Vu=13.31		Vu=8.38

VG-210/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-23.38 As =1.98 As(r)=1.86	Mu=-7.03 As =1.98 As(r)=1.39	Mu=-7.03 As =1.98 As(r)=1.39	Mu=-7.03 As =2.85 As(r)=1.44	Mu=-35.13 As =2.85 As(r)=2.89	Mu=-34.42 As =2.85 As(r)=2.83	Mu=-7.29 As =1.98 As(r)=1.56	Mu=-6.88 As =2.85 As(r)=1.39	Mu=-6.88 As =2.85 As(r)=1.39	Mu=-27.94 As =2.85 As(r)=2.25
Mu=7.79 As =2.85 As(r)=1.39	Mu=7.79 As =2.85 As(r)=1.39	Mu=25.33 As =2.85 As(r)=2.03	Mu=11.71 As =2.85 As(r)=1.39	Mu=11.71 As =1.98 As(r)=1.39	Mu=11.47 As =1.98 As(r)=1.39	Mu=11.47 As =2.85 As(r)=1.39	Mu=15.44 As =2.85 As(r)=1.39	Mu=9.31 As =2.85 As(r)=1.39	Mu=9.31 As =1.98 As(r)=1.39
Vu=-16.82		Vu=-1.60		Vu=21.41	Vu=-20.62		Vu=-1.44		Vu=19.11

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-28.14 As =2.85 As(r)=2.27	Mu=-5.89 As =1.98 As(r)=1.39	Mu=-5.89 As =2.85 As(r)=1.39	Mu=-5.89 As =2.85 As(r)=1.39	Mu=-29.46 As =2.85 As(r)=2.39	Mu=-29.45 As =2.85 As(r)=2.38	Mu=-5.89 As =1.98 As(r)=1.39	Mu=-5.89 As =2.85 As(r)=1.39	Mu=-5.89 As =2.85 As(r)=1.39	Mu=-29.19 As =2.85 As(r)=2.36
Mu=9.38 As =1.98 As(r)=1.39	Mu=9.38 As =2.85 As(r)=1.39	Mu=17.42 As =2.85 As(r)=1.39	Mu=9.82 As =2.85 As(r)=1.39	Mu=9.82 As =1.98 As(r)=1.39	Mu=9.82 As =1.98 As(r)=1.39	Mu=9.82 As =2.85 As(r)=1.39	Mu=17.01 As =2.85 As(r)=1.39	Mu=9.73 As =2.85 As(r)=1.39	Mu=9.73 As =1.98 As(r)=1.39
Vu=-19.50		Vu=0.95		Vu=19.84	Vu=-19.75		Vu=-0.81		Vu=19.71

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.22 As =2.85 As(r)=2.37	Mu=-5.84 As =1.98 As(r)=1.39	Mu=-5.84 As =2.85 As(r)=1.39	Mu=-5.84 As =2.85 As(r)=1.39	Mu=-29.18 As =2.85 As(r)=2.36	Mu=-29.19 As =2.85 As(r)=2.36	Mu=-5.92 As =1.98 As(r)=1.39	Mu=-5.92 As =2.85 As(r)=1.39	Mu=-5.92 As =2.85 As(r)=1.39	Mu=-29.58 As =2.85 As(r)=2.40
Mu=9.74 As =1.98 As(r)=1.39	Mu=9.74 As =2.85 As(r)=1.39	Mu=17.13 As =2.85 As(r)=1.39	Mu=9.73 As =3.59 As(r)=1.39	Mu=9.73 As =1.98 As(r)=1.39	Mu=9.73 As =1.98 As(r)=1.39	Mu=9.73 As =2.85 As(r)=1.39	Mu=16.98 As =2.85 As(r)=1.39	Mu=9.86 As =2.16 As(r)=1.39	Mu=9.86 As =1.98 As(r)=1.39
Vu=-19.72		Vu=0.82		Vu=19.74	Vu=-19.70		Vu=0.88		Vu=19.80

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=5.66				
Mu=-29.59 As =2.85 As(r)=2.40	Mu=-5.92 As =1.98 As(r)=1.39	Mu=-5.92 As =2.85 As(r)=1.39	Mu=-5.92 As =2.85 As(r)=1.39	Mu=-28.83 As =2.85 As(r)=2.33	Mu=-30.37 As =2.85 As(r)=2.47	Mu=-6.13 As =1.98 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-3.37 As =2.85 As(r)=1.39
Mu=9.86 As =1.98 As(r)=1.39	Mu=9.86 As =2.85 As(r)=1.39	Mu=17.53 As =2.85 As(r)=1.39	Mu=9.61 As =1.98 As(r)=1.39	Mu=9.61 As =1.98 As(r)=1.39	Mu=6.07 As =1.98 As(r)=1.39	Mu=6.07 As =2.85 As(r)=1.39	Mu=15.97 As =2.85 As(r)=1.39	Mu=11.88 As =2.16 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-19.89		Vu=-0.84		Vu=20.02	Vu=-20.73		Vu=-4.45		Vu=12.27

VG-211/Piso 2

B=0.12 H=0.40 L=0.82				
Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39
Mu=3.22 As =1.27 As(r)=1.39	Mu=3.79 As =1.27 As(r)=1.39	Mu=4.15 As =1.27 As(r)=1.39	Mu=3.21 As =1.27 As(r)=1.39	Mu=2.37 As =1.27 As(r)=1.39
Vu=-0.47		Vu=-1.48		Vu=4.25

VG-212/Piso 2

B=0.12 H=0.40 L=2.64				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.40 As =1.98 As(r)=1.39	Mu=-9.48 As =1.98 As(r)=1.39	Mu=-17.37 As =1.98 As(r)=1.58	Mu=-22.37 As =1.98 As(r)=1.78
Mu=4.49 As =0.50 As(r)=1.39	Mu=0.92 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=4.47 As =1.98 As(r)=1.39
Vu=8.82		Vu=12.11		Vu=8.40

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VG-213/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-24.14 As =1.98 As(r)=1.93	Mu=-7.21 As =1.98 As(r)=1.39	Mu=-7.21 As =1.98 As(r)=1.39	Mu=-7.21 As =2.85 As(r)=1.47	Mu=-36.04 As =2.85 As(r)=2.97	Mu=-35.25 As =2.85 As(r)=2.90	Mu=-7.34 As =1.98 As(r)=1.60	Mu=-7.05 As =2.85 As(r)=1.39	Mu=-7.05 As =2.85 As(r)=1.39	Mu=-28.38 As =2.85 As(r)=2.29
Mu=8.05 As =2.85 As(r)=1.39	Mu=8.05 As =2.85 As(r)=1.39	Mu=25.76 As =2.85 As(r)=2.07	Mu=12.01 As =2.85 As(r)=1.39	Mu=12.01 As =1.98 As(r)=1.39	Mu=11.75 As =1.98 As(r)=1.39	Mu=11.75 As =2.85 As(r)=1.39	Mu=15.49 As =2.85 As(r)=1.39	Mu=9.46 As =2.85 As(r)=1.39	Mu=9.46 As =1.98 As(r)=1.39
Vu=-17.30		Vu=-1.49		Vu=22.06	Vu=-21.17		Vu=-1.48		Vu=19.51

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-28.59 As =2.85 As(r)=2.31	Mu=-5.99 As =1.98 As(r)=1.39	Mu=-5.99 As =2.85 As(r)=1.39	Mu=-5.99 As =2.85 As(r)=1.39	Mu=-29.96 As =2.85 As(r)=2.43	Mu=-29.92 As =2.85 As(r)=2.43	Mu=-5.98 As =1.98 As(r)=1.39	Mu=-5.98 As =2.85 As(r)=1.39	Mu=-5.98 As =2.85 As(r)=1.39	Mu=-29.64 As =2.85 As(r)=2.40
Mu=9.53 As =1.98 As(r)=1.39	Mu=9.53 As =2.85 As(r)=1.39	Mu=17.56 As =2.85 As(r)=1.39	Mu=9.99 As =2.85 As(r)=1.39	Mu=9.99 As =1.98 As(r)=1.39	Mu=9.97 As =1.98 As(r)=1.39	Mu=9.97 As =2.85 As(r)=1.39	Mu=17.12 As =2.85 As(r)=1.39	Mu=9.88 As =2.85 As(r)=1.39	Mu=9.88 As =1.98 As(r)=1.39
Vu=-19.94		Vu=0.97		Vu=20.26	Vu=-20.16		Vu=-0.82		Vu=20.09

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.67 As =2.85 As(r)=2.40	Mu=-5.93 As =1.98 As(r)=1.39	Mu=-5.93 As =2.85 As(r)=1.39	Mu=-5.93 As =2.85 As(r)=1.39	Mu=-29.55 As =2.85 As(r)=2.39	Mu=-29.54 As =2.85 As(r)=2.39	Mu=-6.08 As =1.98 As(r)=1.39	Mu=-6.08 As =2.85 As(r)=1.39	Mu=-6.08 As =2.85 As(r)=1.39	Mu=-30.41 As =2.85 As(r)=2.47
Mu=9.89 As =1.98 As(r)=1.39	Mu=9.89 As =2.85 As(r)=1.39	Mu=17.26 As =2.85 As(r)=1.39	Mu=9.85 As =3.59 As(r)=1.39	Mu=9.85 As =1.98 As(r)=1.39	Mu=9.85 As =1.98 As(r)=1.39	Mu=9.85 As =2.85 As(r)=1.39	Mu=17.04 As =2.85 As(r)=1.39	Mu=10.14 As =2.16 As(r)=1.39	Mu=10.14 As =1.98 As(r)=1.39
Vu=-20.12		Vu=0.83		Vu=20.09	Vu=-20.04		Vu=0.92		Vu=20.32

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=5.16				
Mu=-30.52 As =2.85 As(r)=2.48	Mu=-6.10 As =1.98 As(r)=1.39	Mu=-6.10 As =2.85 As(r)=1.39	Mu=-6.10 As =2.85 As(r)=1.39	Mu=-26.45 As =2.85 As(r)=2.13	Mu=-26.64 As =2.85 As(r)=2.14	Mu=-6.50 As =1.98 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-1.68 As =2.85 As(r)=1.39
Mu=10.17 As =1.98 As(r)=1.39	Mu=10.17 As =2.85 As(r)=1.39	Mu=17.96 As =2.85 As(r)=1.41	Mu=8.82 As =1.98 As(r)=1.39	Mu=8.82 As =1.98 As(r)=1.39	Mu=5.33 As =1.98 As(r)=1.39	Mu=5.33 As =2.85 As(r)=1.39	Mu=11.91 As =2.85 As(r)=1.39	Mu=9.56 As =3.30 As(r)=1.39	Mu=0.80 As =1.98 As(r)=1.39
Vu=-20.52		Vu=-1.02		Vu=19.30	Vu=-18.73		Vu=-5.58		Vu=11.50

VG-214/Piso 2

B=0.12 H=0.40 L=2.56					B=0.12 H=0.40 L=7.30				
Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.04 As =1.98 As(r)=1.39	Mu=-4.75 As =1.98 As(r)=1.39	Mu=-14.95 As =1.98 As(r)=1.54	Mu=-23.89 As =1.98 As(r)=1.91	Mu=-23.89 As =1.98 As(r)=1.91	Mu=-6.73 As =1.98 As(r)=1.39	Mu=-6.73 As =1.98 As(r)=1.39	Mu=-6.73 As =1.98 As(r)=1.39	Mu=-33.66 As =2.85 As(r)=2.76
Mu=3.82 As =2.85 As(r)=1.39	Mu=2.02 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=4.78 As =2.85 As(r)=1.39	Mu=7.96 As =2.85 As(r)=1.39	Mu=7.96 As =2.85 As(r)=1.39	Mu=24.01 As =2.85 As(r)=1.92	Mu=11.22 As =1.98 As(r)=1.39	Mu=11.22 As =1.98 As(r)=1.39
Vu=1.86		Vu=8.48		Vu=14.99	Vu=-20.00		Vu=-0.60		Vu=21.86

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-33.10 As =2.85 As(r)=2.71	Mu=-6.62 As =1.98 As(r)=1.47	Mu=-6.62 As =2.85 As(r)=1.39	Mu=-6.62 As =1.98 As(r)=1.39	Mu=-26.23 As =2.85 As(r)=2.11	Mu=-26.36 As =2.85 As(r)=2.12	Mu=-5.56 As =1.98 As(r)=1.39	Mu=-5.56 As =2.85 As(r)=1.39	Mu=-5.56 As =1.98 As(r)=1.39	Mu=-27.80 As =2.85 As(r)=2.24
Mu=11.03 As =1.98 As(r)=1.39	Mu=11.03 As =2.85 As(r)=1.39	Mu=13.17 As =2.85 As(r)=1.39	Mu=8.74 As =1.98 As(r)=1.39	Mu=8.74 As =1.98 As(r)=1.39	Mu=8.79 As =1.98 As(r)=1.39	Mu=8.79 As =2.85 As(r)=1.39	Mu=15.56 As =2.85 As(r)=1.39	Mu=9.27 As =1.98 As(r)=1.39	Mu=9.27 As =1.98 As(r)=1.39
Vu=-20.52		Vu=-1.30		Vu=18.84	Vu=-19.34		Vu=0.79		Vu=19.69

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-27.75 As =2.85 As(r)=2.24	Mu=-5.55 As =1.98 As(r)=1.39	Mu=-5.55 As =2.85 As(r)=1.39	Mu=-5.55 As =1.98 As(r)=1.39	Mu=-27.53 As =2.85 As(r)=2.22	Mu=-27.55 As =2.85 As(r)=2.22	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-5.51 As =2.85 As(r)=1.39	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-27.38 As =2.85 As(r)=2.21
Mu=9.25 As =1.98 As(r)=1.39	Mu=9.25 As =2.85 As(r)=1.39	Mu=15.05 As =2.85 As(r)=1.39	Mu=9.18 As =1.98 As(r)=1.39	Mu=9.18 As =1.98 As(r)=1.39	Mu=9.18 As =1.98 As(r)=1.39	Mu=9.18 As =2.85 As(r)=1.39	Mu=15.24 As =3.89 As(r)=1.39	Mu=9.13 As =1.98 As(r)=1.39	Mu=9.13 As =1.98 As(r)=1.39
Vu=-19.58		Vu=-0.64		Vu=19.54	Vu=-19.58		Vu=-0.64		Vu=19.56

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-27.37 As =2.85 As(r)=2.21	Mu=-5.67 As =1.98 As(r)=1.39	Mu=-5.67 As =2.85 As(r)=1.39	Mu=-5.67 As =1.98 As(r)=1.39	Mu=-28.37 As =2.85 As(r)=2.29	Mu=-27.03 As =2.85 As(r)=2.18	Mu=-5.41 As =1.98 As(r)=1.39	Mu=-5.41 As =2.85 As(r)=1.39	Mu=-5.41 As =2.39 As(r)=1.39	Mu=-18.08 As =2.85 As(r)=1.42
Mu=9.12 As =1.98 As(r)=1.39	Mu=9.12 As =2.85 As(r)=1.39	Mu=14.72 As =1.98 As(r)=1.39	Mu=9.46 As =1.98 As(r)=1.39	Mu=9.46 As =1.98 As(r)=1.39	Mu=9.01 As =1.98 As(r)=1.39	Mu=9.01 As =2.85 As(r)=1.39	Mu=16.12 As =1.98 As(r)=1.39	Mu=6.03 As =1.98 As(r)=1.39	Mu=6.03 As =1.98 As(r)=1.39
Vu=-19.46		Vu=0.81		Vu=19.35	Vu=-19.82		Vu=-1.09		Vu=15.33

VG-215/Piso 2

B=0.12 H=0.40 L=1.86				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.33 As =1.98 As(r)=1.39
Mu=3.81 As =0.50 As(r)=1.39	Mu=7.69 As =1.98 As(r)=1.39	Mu=8.00 As =1.98 As(r)=1.39	Mu=5.00 As =1.98 As(r)=1.39	Mu=2.89 As =1.98 As(r)=1.39
Vu=-9.88		Vu=2.36		Vu=5.10

VG-216/Piso 2

B=0.12 H=0.40 L=2.09					B=0.12 H=0.40 L=7.30				
Mu=-2.46 As =1.98 As(r)=1.39	Mu=-3.35 As =1.98 As(r)=1.39	Mu=-7.25 As =1.98 As(r)=1.39	Mu=-10.39 As =1.98 As(r)=1.39	Mu=-14.03 As =1.98 As(r)=1.39	Mu=-14.48 As =1.98 As(r)=1.39	Mu=-4.93 As =1.98 As(r)=1.39	Mu=-4.93 As =2.76 As(r)=1.39	Mu=-4.93 As =1.98 As(r)=1.39	Mu=-24.66 As =2.85 As(r)=1.97
Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=2.81 As =1.98 As(r)=1.39	Mu=4.93 As =1.98 As(r)=1.39	Mu=6.90 As =1.98 As(r)=1.39	Mu=21.63 As =1.98 As(r)=1.72	Mu=8.22 As =1.98 As(r)=1.39	Mu=8.22 As =1.98 As(r)=1.39
Vu=1.48		Vu=5.50		Vu=7.38	Vu=-14.61		Vu=14.61		Vu=15.18

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B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-24.54 As =2.85 As(r)=1.96	Mu=-7.63 As =1.98 As(r)=1.39	Mu=-4.91 As =2.85 As(r)=1.39	Mu=-4.91 As =1.98 As(r)=1.39	Mu=-18.33 As =1.98 As(r)=1.44	Mu=-18.40 As =1.98 As(r)=1.45	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-3.94 As =2.51 As(r)=1.39	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-19.72 As =1.98 As(r)=1.56
Mu=8.18 As =1.98 As(r)=1.39	Mu=8.18 As =1.98 As(r)=1.39	Mu=9.90 As =1.98 As(r)=1.39	Mu=6.11 As =1.98 As(r)=1.39	Mu=6.11 As =1.98 As(r)=1.39	Mu=6.13 As =1.98 As(r)=1.39	Mu=6.13 As =1.98 As(r)=1.39	Mu=12.52 As =1.98 As(r)=1.39	Mu=6.57 As =1.98 As(r)=1.39	Mu=6.57 As =1.98 As(r)=1.39
Vu=-13.74		Vu=-1.29		Vu=12.81	Vu=-13.40		Vu=0.72		Vu=13.57

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-19.68 As =1.98 As(r)=1.55	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-3.94 As =2.09 As(r)=1.39	Mu=-3.94 As =1.98 As(r)=1.39	Mu=-19.48 As =1.98 As(r)=1.54	Mu=-19.50 As =1.98 As(r)=1.54	Mu=-3.90 As =1.98 As(r)=1.39	Mu=-3.90 As =1.98 As(r)=1.39	Mu=-3.90 As =2.76 As(r)=1.39	Mu=-19.25 As =1.98 As(r)=1.52
Mu=6.56 As =1.98 As(r)=1.39	Mu=6.56 As =1.98 As(r)=1.39	Mu=11.97 As =1.98 As(r)=1.39	Mu=6.49 As =1.98 As(r)=1.39	Mu=6.49 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=12.17 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39
Vu=-13.45		Vu=-0.55		Vu=13.43	Vu=-13.47		Vu=-0.56		Vu=13.45

B=0.12 H=0.40 L=6.60					B=0.20 H=0.40 L=6.60				
Mu=-19.25 As =1.98 As(r)=1.52	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-4.31 As =2.85 As(r)=1.39	Mu=-21.57 As =1.98 As(r)=1.71	Mu=-25.42 As =3.25 As(r)=2.31	Mu=-5.08 As =1.98 As(r)=2.31	Mu=-5.08 As =3.82 As(r)=2.31	Mu=-5.08 As =2.85 As(r)=2.31	Mu=-18.45 As =3.25 As(r)=2.31
Mu=6.42 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39	Mu=11.47 As =1.98 As(r)=1.39	Mu=7.19 As =1.98 As(r)=1.39	Mu=7.19 As =1.98 As(r)=1.39	Mu=8.47 As =3.25 As(r)=2.31	Mu=8.47 As =1.98 As(r)=2.31	Mu=21.09 As =1.98 As(r)=2.31	Mu=6.15 As =1.98 As(r)=2.31	Mu=6.15 As =3.96 As(r)=2.31
Vu=-13.31		Vu=0.78		Vu=14.01	Vu=18.40		Vu=2.04		Vu=-18.58

B=0.20 H=0.40 L=1.57				
Mu=-9.15 As =3.25 As(r)=2.31	Mu=-7.75 As =1.98 As(r)=2.31	Mu=-5.65 As =3.25 As(r)=2.31	Mu=-2.72 As =1.98 As(r)=2.31	Mu=-1.21 As =3.25 As(r)=2.31
Mu=1.83 As =3.96 As(r)=2.31	Mu=0.00 As =1.98 As(r)=2.31	Mu=0.00 As =1.98 As(r)=2.31	Mu=0.00 As =1.98 As(r)=2.31	Mu=0.00 As =3.96 As(r)=2.31
Vu=3.38		Vu=5.45		Vu=4.38

VG-217/Piso 2

B=0.12 H=0.40 L=0.83				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39
Mu=2.35 As =0.50 As(r)=1.39	Mu=2.67 As =1.98 As(r)=1.39	Mu=3.05 As =1.98 As(r)=1.39	Mu=2.44 As =1.98 As(r)=1.39	Mu=2.16 As =1.98 As(r)=1.39
Vu=-2.37		Vu=-1.71		Vu=2.65

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VG-218/Piso 2

B=0.12 H=0.40 L=1.62					B=0.12 H=0.40 L=7.30				
Mu=-6.83 As =1.98 As(r)=1.39	Mu=-6.53 As =1.98 As(r)=1.39	Mu=-6.94 As =1.98 As(r)=1.39	Mu=-8.35 As =1.98 As(r)=1.39	Mu=-10.24 As =1.98 As(r)=1.39	Mu=-12.55 As =1.98 As(r)=1.39	Mu=-5.10 As =1.98 As(r)=1.39	Mu=-5.10 As =3.14 As(r)=1.39	Mu=-5.10 As =1.98 As(r)=1.39	Mu=-25.52 As =2.85 As(r)=2.05
Mu=2.28 As =1.98 As(r)=1.39	Mu=2.05 As =1.98 As(r)=1.39	Mu=2.05 As =1.98 As(r)=1.39	Mu=2.05 As =1.98 As(r)=1.39	Mu=3.41 As =1.98 As(r)=1.39	Mu=5.10 As =1.98 As(r)=1.39	Mu=8.37 As =1.98 As(r)=1.39	Mu=22.21 As =1.98 As(r)=1.77	Mu=8.51 As =1.98 As(r)=1.39	Mu=8.51 As =1.98 As(r)=1.39
Vu=-1.10		Vu=0.78		Vu=4.94	Vu=-14.35		Vu=14.35		Vu=15.62

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-25.29 As =2.85 As(r)=2.03	Mu=-7.87 As =1.98 As(r)=1.39	Mu=-5.06 As =2.90 As(r)=1.39	Mu=-5.06 As =1.98 As(r)=1.39	Mu=-18.68 As =1.98 As(r)=1.47	Mu=-18.75 As =1.98 As(r)=1.48	Mu=-4.04 As =1.98 As(r)=1.39	Mu=-4.04 As =2.59 As(r)=1.39	Mu=-4.04 As =1.98 As(r)=1.39	Mu=-20.20 As =1.98 As(r)=1.60
Mu=8.43 As =1.98 As(r)=1.39	Mu=8.43 As =1.98 As(r)=1.39	Mu=10.01 As =1.98 As(r)=1.39	Mu=6.23 As =1.98 As(r)=1.39	Mu=6.23 As =1.98 As(r)=1.39	Mu=6.25 As =1.98 As(r)=1.39	Mu=6.25 As =1.98 As(r)=1.39	Mu=12.75 As =1.98 As(r)=1.39	Mu=6.73 As =1.98 As(r)=1.39	Mu=6.73 As =1.98 As(r)=1.39
Vu=-14.09		Vu=-1.33		Vu=13.05	Vu=-13.69		Vu=0.74		Vu=13.88

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-20.16 As =1.98 As(r)=1.59	Mu=-4.03 As =1.98 As(r)=1.39	Mu=-4.03 As =1.98 As(r)=1.39	Mu=-4.03 As =3.27 As(r)=1.39	Mu=-19.95 As =1.98 As(r)=1.58	Mu=-19.96 As =1.98 As(r)=1.58	Mu=-3.99 As =1.98 As(r)=1.39	Mu=-3.99 As =1.98 As(r)=1.39	Mu=-3.99 As =2.85 As(r)=1.39	Mu=-19.59 As =1.98 As(r)=1.55
Mu=6.72 As =1.98 As(r)=1.39	Mu=6.72 As =1.98 As(r)=1.39	Mu=12.21 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=12.39 As =1.98 As(r)=1.39	Mu=6.53 As =1.98 As(r)=1.39	Mu=6.53 As =1.98 As(r)=1.39
Vu=-13.77		Vu=-0.55		Vu=13.73	Vu=-13.77		Vu=-0.57		Vu=13.70

B=0.12 H=0.40 L=6.60					B=0.20 H=0.40 L=6.60				
Mu=-19.58 As =1.98 As(r)=1.55	Mu=-4.42 As =1.98 As(r)=1.39	Mu=-4.42 As =1.98 As(r)=1.39	Mu=-4.42 As =2.85 As(r)=1.39	Mu=-22.10 As =1.98 As(r)=1.76	Mu=-26.12 As =3.25 As(r)=2.31	Mu=-5.22 As =1.98 As(r)=2.31	Mu=-5.22 As =3.82 As(r)=2.31	Mu=-5.22 As =2.85 As(r)=2.31	Mu=-19.82 As =3.25 As(r)=2.31
Mu=6.53 As =1.98 As(r)=1.39	Mu=6.53 As =1.98 As(r)=1.39	Mu=11.58 As =1.98 As(r)=1.39	Mu=7.37 As =1.98 As(r)=1.39	Mu=7.37 As =1.98 As(r)=1.39	Mu=8.71 As =3.25 As(r)=2.31	Mu=8.71 As =1.98 As(r)=2.31	Mu=21.75 As =1.98 As(r)=2.31	Mu=6.61 As =1.98 As(r)=2.31	Mu=6.61 As =3.96 As(r)=2.31
Vu=-13.54		Vu=0.81		Vu=14.29	Vu=18.85		Vu=2.13		Vu=-19.90

B=0.20 H=0.40 L=1.57				
Mu=-8.80 As =3.25 As(r)=2.31	Mu=-7.18 As =1.98 As(r)=2.31	Mu=-5.64 As =3.25 As(r)=2.31	Mu=-2.88 As =1.98 As(r)=2.31	Mu=-1.39 As =2.76 As(r)=2.31
Mu=1.76 As =3.96 As(r)=2.31	Mu=0.00 As =1.98 As(r)=2.31	Mu=0.00 As =1.98 As(r)=2.31	Mu=0.00 As =1.98 As(r)=2.31	Mu=0.00 As =3.47 As(r)=2.31
Vu=5.54		Vu=5.04		Vu=4.47

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VG-219/Piso 2

B=0.12 H=0.40 L=0.31				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39
Mu=1.47 As =0.50 As(r)=1.39	Mu=1.45 As =0.50 As(r)=1.39	Mu=1.39 As =1.49 As(r)=1.39	Mu=1.13 As =1.98 As(r)=1.39	Mu=0.96 As =1.98 As(r)=1.39
Vu=-0.26		Vu=0.53		Vu=1.99

VG-220/Piso 2

B=0.12 H=0.40 L=1.16					B=0.12 H=0.40 L=7.30				
Mu=-5.99 As =1.98 As(r)=1.39	Mu=-5.65 As =1.98 As(r)=1.39	Mu=-7.54 As =1.98 As(r)=1.39	Mu=-11.20 As =1.98 As(r)=1.39	Mu=-14.05 As =1.98 As(r)=1.39	Mu=-18.43 As =1.98 As(r)=1.45	Mu=-7.24 As =1.98 As(r)=1.39	Mu=-7.24 As =2.85 As(r)=1.39	Mu=-7.24 As =2.85 As(r)=1.40	Mu=-36.20 As =2.85 As(r)=2.99
Mu=2.81 As =2.85 As(r)=1.39	Mu=2.81 As =2.85 As(r)=1.39	Mu=2.81 As =2.85 As(r)=1.39	Mu=2.81 As =2.85 As(r)=1.39	Mu=4.68 As =2.85 As(r)=1.39	Mu=7.24 As =2.85 As(r)=1.39	Mu=9.65 As =2.85 As(r)=1.54	Mu=25.53 As =2.85 As(r)=2.05	Mu=12.07 As =2.85 As(r)=1.39	Mu=12.07 As =1.98 As(r)=1.39
Vu=-1.13		Vu=6.52		Vu=9.36	Vu=-19.19		Vu=1.08		Vu=23.41

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-35.26 As =2.85 As(r)=2.90	Mu=-7.05 As =1.98 As(r)=1.57	Mu=-7.05 As =2.85 As(r)=1.39	Mu=-7.05 As =2.85 As(r)=1.39	Mu=-27.18 As =2.85 As(r)=2.19	Mu=-27.35 As =2.85 As(r)=2.20	Mu=-5.84 As =1.98 As(r)=1.39	Mu=-5.84 As =3.29 As(r)=1.39	Mu=-5.84 As =2.85 As(r)=1.39	Mu=-29.19 As =2.85 As(r)=2.36
Mu=11.75 As =1.98 As(r)=1.39	Mu=11.75 As =2.85 As(r)=1.39	Mu=13.24 As =2.85 As(r)=1.39	Mu=9.06 As =2.85 As(r)=1.39	Mu=9.06 As =1.98 As(r)=1.39	Mu=9.12 As =1.98 As(r)=1.39	Mu=9.12 As =2.85 As(r)=1.39	Mu=16.04 As =2.85 As(r)=1.39	Mu=9.73 As =2.85 As(r)=1.39	Mu=9.73 As =1.98 As(r)=1.39
Vu=-21.77		Vu=-1.38		Vu=19.70	Vu=-20.30		Vu=0.83		Vu=20.77

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.15 As =2.85 As(r)=2.36	Mu=-5.83 As =1.98 As(r)=1.39	Mu=-5.83 As =3.56 As(r)=1.39	Mu=-5.83 As =2.85 As(r)=1.39	Mu=-28.89 As =2.85 As(r)=2.34	Mu=-28.87 As =2.85 As(r)=2.33	Mu=-5.77 As =1.98 As(r)=1.39	Mu=-5.77 As =3.53 As(r)=1.39	Mu=-5.77 As =2.85 As(r)=1.39	Mu=-28.32 As =2.85 As(r)=2.29
Mu=9.72 As =1.98 As(r)=1.39	Mu=9.72 As =2.85 As(r)=1.39	Mu=15.54 As =2.85 As(r)=1.39	Mu=9.63 As =2.85 As(r)=1.39	Mu=9.63 As =1.98 As(r)=1.39	Mu=9.62 As =1.98 As(r)=1.39	Mu=9.62 As =2.85 As(r)=1.39	Mu=15.67 As =2.85 As(r)=1.39	Mu=9.44 As =2.85 As(r)=1.39	Mu=9.44 As =1.98 As(r)=1.39
Vu=-20.69		Vu=-0.64		Vu=20.60	Vu=-20.62		Vu=-0.66		Vu=20.42

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-28.27 As =2.85 As(r)=2.28	Mu=-5.96 As =1.98 As(r)=1.39	Mu=-5.96 As =3.26 As(r)=1.39	Mu=-5.96 As =2.85 As(r)=1.39	Mu=-29.80 As =2.85 As(r)=2.42	Mu=-28.47 As =2.85 As(r)=2.30	Mu=-5.69 As =1.98 As(r)=1.39	Mu=-5.69 As =1.98 As(r)=1.39	Mu=-5.69 As =2.85 As(r)=1.39	Mu=-22.08 As =1.98 As(r)=1.75
Mu=9.42 As =1.98 As(r)=1.39	Mu=9.42 As =2.85 As(r)=1.39	Mu=14.82 As =2.85 As(r)=1.39	Mu=9.93 As =2.85 As(r)=1.39	Mu=9.93 As =1.98 As(r)=1.39	Mu=9.49 As =1.98 As(r)=1.39	Mu=9.49 As =2.85 As(r)=1.39	Mu=17.12 As =2.85 As(r)=1.39	Mu=7.36 As =2.85 As(r)=1.39	Mu=7.36 As =1.98 As(r)=1.39
Vu=-20.26		Vu=0.87		Vu=20.22	Vu=-20.92		Vu=-1.29		Vu=19.16

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VG-221/Piso 2

B=0.12 H=0.40 L=0.61				
Mu=-0.41 As =0.50 As(r)=1.39	Mu=-0.61 As =1.49 As(r)=1.39	Mu=-0.79 As =1.98 As(r)=1.39	Mu=-0.81 As =1.98 As(r)=1.39	Mu=-0.95 As =1.98 As(r)=1.39
Mu=0.93 As =0.50 As(r)=1.39	Mu=1.22 As =1.49 As(r)=1.39	Mu=1.40 As =1.98 As(r)=1.39	Mu=1.34 As =1.98 As(r)=1.39	Mu=1.25 As =1.98 As(r)=1.39
Vu=-3.06		Vu=-0.98		Vu=1.71

VG-222/Piso 2

B=0.12 H=0.40 L=0.26					B=0.12 H=0.40 L=7.30				
Mu=-1.41 As =1.98 As(r)=1.39	Mu=-2.92 As =0.50 As(r)=1.39	Mu=-5.76 As =1.98 As(r)=1.39	Mu=-10.14 As =1.98 As(r)=1.39	Mu=-11.73 As =1.98 As(r)=1.39	Mu=-15.50 As =1.98 As(r)=1.39	Mu=-7.42 As =1.98 As(r)=1.39	Mu=-7.42 As =2.12 As(r)=1.39	Mu=-7.42 As =2.85 As(r)=1.49	Mu=-37.09 As =2.85 As(r)=3.07
Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =0.71 As(r)=1.39	Mu=0.00 As =2.14 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=2.35 As =2.85 As(r)=1.39	Mu=7.42 As =2.85 As(r)=1.39	Mu=11.32 As =2.85 As(r)=1.71	Mu=27.43 As =2.85 As(r)=2.21	Mu=12.36 As =2.85 As(r)=1.39	Mu=12.36 As =1.98 As(r)=1.39
Vu=11.69		Vu=4.62		Vu=12.21	Vu=-17.89		Vu=1.38		Vu=23.08

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-35.98 As =2.85 As(r)=2.97	Mu=-8.01 As =1.98 As(r)=1.65	Mu=-7.20 As =2.85 As(r)=1.39	Mu=-7.20 As =2.85 As(r)=1.39	Mu=-26.93 As =2.85 As(r)=2.17	Mu=-27.15 As =2.85 As(r)=2.19	Mu=-5.83 As =1.98 As(r)=1.39	Mu=-5.83 As =2.85 As(r)=1.39	Mu=-5.83 As =2.85 As(r)=1.39	Mu=-29.13 As =2.85 As(r)=2.36
Mu=11.99 As =1.98 As(r)=1.39	Mu=11.99 As =2.85 As(r)=1.39	Mu=13.65 As =2.85 As(r)=1.39	Mu=8.98 As =2.85 As(r)=1.39	Mu=8.98 As =1.98 As(r)=1.39	Mu=9.05 As =1.98 As(r)=1.39	Mu=9.05 As =2.85 As(r)=1.39	Mu=16.66 As =2.85 As(r)=1.39	Mu=9.71 As =2.85 As(r)=1.39	Mu=9.71 As =1.98 As(r)=1.39
Vu=-21.37		Vu=-1.57		Vu=19.05	Vu=-19.69		Vu=0.93		Vu=20.25

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.28 As =2.85 As(r)=2.37	Mu=-5.86 As =1.98 As(r)=1.39	Mu=-5.86 As =2.85 As(r)=1.39	Mu=-5.86 As =2.85 As(r)=1.39	Mu=-29.05 As =2.85 As(r)=2.35	Mu=-28.79 As =2.85 As(r)=2.33	Mu=-5.76 As =1.98 As(r)=1.39	Mu=-5.76 As =2.85 As(r)=1.39	Mu=-5.76 As =2.85 As(r)=1.39	Mu=-28.39 As =2.85 As(r)=2.29
Mu=9.76 As =1.98 As(r)=1.39	Mu=9.76 As =2.85 As(r)=1.39	Mu=16.17 As =2.85 As(r)=1.39	Mu=9.68 As =2.85 As(r)=1.39	Mu=9.68 As =1.98 As(r)=1.39	Mu=9.60 As =1.98 As(r)=1.39	Mu=9.60 As =2.85 As(r)=1.39	Mu=16.33 As =2.85 As(r)=1.39	Mu=9.46 As =2.85 As(r)=1.39	Mu=9.46 As =1.98 As(r)=1.39
Vu=-20.25		Vu=-0.74		Vu=20.17	Vu=-20.13		Vu=0.76		Vu=19.95

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-28.25 As =2.85 As(r)=2.28	Mu=-6.13 As =1.98 As(r)=1.39	Mu=-6.13 As =2.85 As(r)=1.39	Mu=-6.13 As =2.85 As(r)=1.39	Mu=-30.66 As =2.85 As(r)=2.49	Mu=-30.77 As =2.85 As(r)=2.50	Mu=-6.15 As =1.98 As(r)=1.39	Mu=-6.15 As =2.85 As(r)=1.39	Mu=-6.15 As =2.85 As(r)=1.39	Mu=-19.87 As =1.98 As(r)=1.57
Mu=9.42 As =1.98 As(r)=1.39	Mu=9.42 As =2.85 As(r)=1.39	Mu=15.44 As =2.85 As(r)=1.39	Mu=10.22 As =2.85 As(r)=1.39	Mu=10.22 As =1.98 As(r)=1.39	Mu=10.26 As =1.98 As(r)=1.39	Mu=10.26 As =2.85 As(r)=1.39	Mu=18.92 As =2.85 As(r)=1.49	Mu=6.62 As =3.00 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39
Vu=-19.75		Vu=0.97		Vu=20.40	Vu=-21.15		Vu=-1.71		Vu=18.37

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B=0.12 H=0.40 L=2.18				
Mu=-18.86 As =1.98 As(r)=1.49	Mu=-11.71 As =1.98 As(r)=1.39	Mu=-4.04 As =1.98 As(r)=1.39	Mu=-0.20 As =1.98 As(r)=1.39	Mu=-0.14 As =1.98 As(r)=1.39
Mu=3.77 As =1.98 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=1.80 As =2.85 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39
Vu=-13.66		Vu=-7.48		Vu=-2.85

VG-223/Piso 2

B=0.12 H=0.40 L=0.10					B=0.12 H=0.40 L=7.30				
Mu=-5.01 As =1.98 As(r)=1.39	Mu=-4.90 As =0.00 As(r)=1.39	Mu=-4.74 As =1.98 As(r)=1.39	Mu=-4.22 As =0.50 As(r)=1.39	Mu=-4.12 As =1.98 As(r)=1.39	Mu=-10.05 As =1.98 As(r)=1.39	Mu=-6.08 As =1.98 As(r)=1.39	Mu=-6.08 As =1.98 As(r)=1.39	Mu=-6.08 As =2.85 As(r)=1.39	Mu=-30.42 As =2.85 As(r)=2.47
Mu=1.67 As =2.85 As(r)=1.39	Mu=1.00 As =0.00 As(r)=1.39	Mu=1.00 As =0.00 As(r)=1.39	Mu=1.00 As =0.71 As(r)=1.39	Mu=1.37 As =2.85 As(r)=1.39	Mu=6.08 As =2.85 As(r)=1.39	Mu=13.15 As =2.85 As(r)=1.70	Mu=26.12 As =2.85 As(r)=2.10	Mu=10.14 As =2.85 As(r)=1.39	Mu=10.14 As =1.98 As(r)=1.39
Vu=-2.42		Vu=-2.38		Vu=-2.26	Vu=-16.21		Vu=16.21		Vu=17.77

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-29.75 As =2.85 As(r)=2.41	Mu=-9.28 As =1.98 As(r)=1.46	Mu=-5.95 As =2.85 As(r)=1.39	Mu=-5.95 As =2.85 As(r)=1.39	Mu=-21.02 As =2.85 As(r)=1.67	Mu=-21.20 As =2.85 As(r)=1.68	Mu=-4.57 As =1.98 As(r)=1.39	Mu=-4.57 As =2.99 As(r)=1.39	Mu=-4.57 As =2.85 As(r)=1.39	Mu=-22.83 As =2.85 As(r)=1.82
Mu=9.92 As =1.98 As(r)=1.39	Mu=9.92 As =2.85 As(r)=1.39	Mu=11.44 As =2.85 As(r)=1.39	Mu=7.01 As =2.85 As(r)=1.39	Mu=7.01 As =1.98 As(r)=1.39	Mu=7.07 As =1.98 As(r)=1.39	Mu=7.07 As =2.85 As(r)=1.39	Mu=14.59 As =2.85 As(r)=1.39	Mu=7.61 As =2.85 As(r)=1.39	Mu=7.61 As =1.98 As(r)=1.39
Vu=-16.09		Vu=-1.73		Vu=14.40	Vu=-15.11		Vu=1.02		Vu=15.44

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-23.20 As =2.85 As(r)=1.85	Mu=-4.64 As =1.98 As(r)=1.39	Mu=-4.64 As =2.85 As(r)=1.39	Mu=-4.64 As =2.85 As(r)=1.39	Mu=-22.98 As =2.85 As(r)=1.83	Mu=-22.52 As =2.85 As(r)=1.79	Mu=-4.50 As =1.98 As(r)=1.39	Mu=-4.50 As =2.99 As(r)=1.39	Mu=-4.50 As =2.85 As(r)=1.39	Mu=-22.44 As =2.85 As(r)=1.79
Mu=7.73 As =1.98 As(r)=1.39	Mu=7.73 As =2.85 As(r)=1.39	Mu=14.03 As =2.85 As(r)=1.39	Mu=7.66 As =2.85 As(r)=1.39	Mu=7.66 As =1.98 As(r)=1.39	Mu=7.51 As =1.98 As(r)=1.39	Mu=7.51 As =2.85 As(r)=1.39	Mu=14.28 As =2.85 As(r)=1.39	Mu=7.48 As =2.85 As(r)=1.39	Mu=7.48 As =1.98 As(r)=1.39
Vu=-15.40		Vu=-0.82		Vu=15.33	Vu=-15.34		Vu=0.87		Vu=15.27

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-22.27 As =2.85 As(r)=1.77	Mu=-4.95 As =1.98 As(r)=1.39	Mu=-4.95 As =2.85 As(r)=1.39	Mu=-4.95 As =2.85 As(r)=1.39	Mu=-24.77 As =2.85 As(r)=1.98	Mu=-24.98 As =2.85 As(r)=2.00	Mu=-5.00 As =1.98 As(r)=1.39	Mu=-5.00 As =3.82 As(r)=1.39	Mu=-5.00 As =2.85 As(r)=1.39	Mu=-13.96 As =1.98 As(r)=1.39
Mu=7.42 As =1.98 As(r)=1.39	Mu=7.42 As =2.85 As(r)=1.39	Mu=13.34 As =2.85 As(r)=1.39	Mu=8.26 As =3.30 As(r)=1.39	Mu=8.26 As =1.98 As(r)=1.39	Mu=8.33 As =1.98 As(r)=1.39	Mu=8.33 As =2.85 As(r)=1.39	Mu=17.42 As =2.85 As(r)=1.39	Mu=5.00 As =2.87 As(r)=1.39	Mu=5.00 As =1.98 As(r)=1.39
Vu=-15.05		Vu=1.10		Vu=15.51	Vu=-16.44		Vu=-2.05		Vu=14.60

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B=0.12 H=0.40 L=1.78				
Mu=-13.22 As =1.98 As(r)=1.39	Mu=-9.37 As =1.98 As(r)=1.39	Mu=-4.97 As =1.98 As(r)=1.39	Mu=-2.00 As =1.98 As(r)=1.39	Mu=-0.79 As =1.98 As(r)=1.39
Mu=2.64 As =1.98 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.17 As =1.98 As(r)=1.39
Vu=-9.13		Vu=-3.89		Vu=-2.07

VG-224/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-8.98 As =1.98 As(r)=1.39	Mu=-6.79 As =1.98 As(r)=1.39	Mu=-6.79 As =1.98 As(r)=1.39	Mu=-6.79 As =2.85 As(r)=1.39	Mu=-33.94 As =2.85 As(r)=2.78	Mu=-32.68 As =2.85 As(r)=2.67	Mu=-7.97 As =1.98 As(r)=1.51	Mu=-6.54 As =2.85 As(r)=1.39	Mu=-6.54 As =2.85 As(r)=1.39	Mu=-23.13 As =2.85 As(r)=1.84
Mu=6.79 As =2.85 As(r)=1.39	Mu=14.14 As =2.85 As(r)=1.76	Mu=25.96 As =2.85 As(r)=2.11	Mu=11.31 As =2.85 As(r)=1.39	Mu=11.31 As =1.98 As(r)=1.39	Mu=10.89 As =1.98 As(r)=1.39	Mu=10.89 As =2.85 As(r)=1.39	Mu=11.20 As =2.85 As(r)=1.39	Mu=7.71 As =2.85 As(r)=1.39	Mu=7.71 As =1.98 As(r)=1.39
Vu=-15.75		Vu=2.28		Vu=21.22		Vu=-19.25		Vu=-1.66	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-23.42 As =2.85 As(r)=1.87	Mu=-4.98 As =1.98 As(r)=1.39	Mu=-4.98 As =2.99 As(r)=1.39	Mu=-4.98 As =2.85 As(r)=1.39	Mu=-24.91 As =2.85 As(r)=1.99	Mu=-25.49 As =2.85 As(r)=2.04	Mu=-5.10 As =1.98 As(r)=1.39	Mu=-5.10 As =2.85 As(r)=1.39	Mu=-5.10 As =2.85 As(r)=1.39	Mu=-25.27 As =2.85 As(r)=2.03
Mu=7.81 As =1.98 As(r)=1.39	Mu=7.81 As =2.85 As(r)=1.39	Mu=14.52 As =2.85 As(r)=1.39	Mu=8.30 As =2.85 As(r)=1.39	Mu=8.30 As =1.98 As(r)=1.39	Mu=8.50 As =1.98 As(r)=1.39	Mu=8.50 As =2.85 As(r)=1.39	Mu=13.78 As =2.85 As(r)=1.39	Mu=8.42 As =2.85 As(r)=1.39	Mu=8.42 As =1.98 As(r)=1.39
Vu=-17.58		Vu=0.96		Vu=17.94		Vu=-17.79		Vu=-0.76	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=6.60				
Mu=-24.58 As =2.85 As(r)=1.97	Mu=-4.97 As =1.98 As(r)=1.39	Mu=-4.97 As =2.99 As(r)=1.39	Mu=-4.97 As =2.85 As(r)=1.39	Mu=-24.87 As =2.85 As(r)=1.99	Mu=-24.60 As =2.85 As(r)=1.97	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-5.51 As =2.85 As(r)=1.39	Mu=-5.51 As =2.85 As(r)=1.39	Mu=-27.55 As =2.85 As(r)=2.22
Mu=8.19 As =1.98 As(r)=1.39	Mu=8.19 As =2.85 As(r)=1.39	Mu=14.23 As =2.85 As(r)=1.39	Mu=8.29 As =3.89 As(r)=1.39	Mu=8.29 As =1.98 As(r)=1.39	Mu=8.20 As =1.98 As(r)=1.39	Mu=8.20 As =2.85 As(r)=1.39	Mu=13.22 As =2.85 As(r)=1.39	Mu=9.18 As =1.98 As(r)=1.39	Mu=9.18 As =1.98 As(r)=1.39
Vu=-17.85		Vu=0.81		Vu=17.87		Vu=-17.62		Vu=1.05	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=1.39				
Mu=-28.05 As =2.85 As(r)=2.26	Mu=-5.61 As =1.98 As(r)=1.39	Mu=-5.61 As =3.37 As(r)=1.39	Mu=-5.61 As =2.85 As(r)=1.39	Mu=-14.87 As =1.98 As(r)=1.39	Mu=-13.05 As =1.98 As(r)=1.39	Mu=-9.43 As =1.98 As(r)=1.39	Mu=-4.80 As =1.98 As(r)=1.39	Mu=-2.36 As =1.98 As(r)=1.39	Mu=-2.37 As =1.98 As(r)=1.39
Mu=9.35 As =1.98 As(r)=1.39	Mu=9.35 As =2.85 As(r)=1.39	Mu=17.88 As =2.85 As(r)=1.41	Mu=5.90 As =1.98 As(r)=1.39	Mu=5.61 As =1.98 As(r)=1.39	Mu=2.61 As =1.98 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-19.42		Vu=-2.11		Vu=16.08		Vu=-10.35		Vu=-7.40	

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VG-225/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-5.30 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-2.13 As =2.85 As(r)=1.39	Mu=-34.16 As =2.85 As(r)=2.80	Mu=-32.75 As =2.85 As(r)=2.68	Mu=-8.53 As =1.98 As(r)=1.54	Mu=-6.55 As =2.85 As(r)=1.39	Mu=-6.55 As =2.85 As(r)=1.39	Mu=-22.75 As =2.85 As(r)=1.81
Mu=0.00 As =2.85 As(r)=1.39	Mu=15.69 As =2.85 As(r)=1.87	Mu=26.71 As =2.85 As(r)=2.19	Mu=6.83 As =2.85 As(r)=1.39	Mu=6.83 As =1.98 As(r)=1.39	Mu=10.92 As =1.98 As(r)=1.39	Mu=10.92 As =2.85 As(r)=1.39	Mu=10.99 As =2.85 As(r)=1.39	Mu=7.58 As =2.85 As(r)=1.39	Mu=7.58 As =1.98 As(r)=1.39
Vu=-14.45		Vu=2.54		Vu=20.98		Vu=-18.86		Vu=-1.73	
								Vu=16.37	

B=0.12 H=0.40 L=6.45					B=0.12 H=0.40 L=6.89				
Mu=-23.07 As =2.85 As(r)=1.39	Mu=-4.61 As =1.98 As(r)=1.39	Mu=-4.61 As =2.85 As(r)=1.39	Mu=-4.61 As =2.85 As(r)=1.39	Mu=-22.38 As =2.85 As(r)=1.78	Mu=-24.06 As =2.85 As(r)=1.92	Mu=-4.81 As =1.98 As(r)=1.39	Mu=-4.81 As =2.85 As(r)=1.39	Mu=-4.81 As =2.85 As(r)=1.39	Mu=-23.75 As =2.85 As(r)=1.90
Mu=7.69 As =1.98 As(r)=1.39	Mu=7.69 As =2.85 As(r)=1.39	Mu=15.23 As =2.85 As(r)=1.39	Mu=7.46 As =2.85 As(r)=1.39	Mu=7.46 As =1.98 As(r)=1.39	Mu=8.02 As =1.98 As(r)=1.39	Mu=8.02 As =2.85 As(r)=1.39	Mu=10.79 As =2.85 As(r)=1.39	Mu=7.92 As =3.00 As(r)=1.39	Mu=7.92 As =1.98 As(r)=1.39
Vu=-17.23		Vu=-0.80		Vu=16.88		Vu=-15.65		Vu=0.55	
								Vu=15.55	

B=0.12 H=0.40 L=6.45					B=0.12 H=0.40 L=6.60				
Mu=-22.19 As =2.85 As(r)=1.76	Mu=-4.95 As =1.98 As(r)=1.39	Mu=-4.95 As =3.34 As(r)=1.39	Mu=-4.95 As =2.85 As(r)=1.39	Mu=-24.73 As =2.85 As(r)=1.98	Mu=-24.19 As =2.85 As(r)=1.93	Mu=-5.48 As =1.98 As(r)=1.39	Mu=-5.48 As =2.85 As(r)=1.39	Mu=-5.48 As =2.85 As(r)=1.39	Mu=-27.40 As =2.85 As(r)=2.21
Mu=7.40 As =1.98 As(r)=1.39	Mu=7.40 As =2.85 As(r)=1.39	Mu=14.79 As =2.85 As(r)=1.39	Mu=8.24 As =3.30 As(r)=1.39	Mu=8.24 As =1.98 As(r)=1.39	Mu=8.06 As =1.98 As(r)=1.39	Mu=8.06 As =2.85 As(r)=1.39	Mu=13.09 As =2.85 As(r)=1.39	Mu=9.13 As =1.98 As(r)=1.39	Mu=9.13 As =1.98 As(r)=1.39
Vu=-16.91		Vu=1.03		Vu=17.56		Vu=-17.35		Vu=1.15	
								Vu=17.99	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=0.61				
Mu=-28.30 As =2.85 As(r)=2.29	Mu=-5.66 As =1.98 As(r)=1.39	Mu=-5.66 As =3.14 As(r)=1.39	Mu=-5.66 As =2.85 As(r)=1.39	Mu=-12.02 As =1.98 As(r)=1.39	Mu=-10.68 As =1.98 As(r)=1.39	Mu=-8.53 As =1.98 As(r)=1.39	Mu=-5.06 As =1.98 As(r)=1.39	Mu=-2.01 As =1.98 As(r)=1.39	Mu=-0.67 As =1.98 As(r)=1.39
Mu=9.43 As =1.98 As(r)=1.39	Mu=9.43 As =2.85 As(r)=1.39	Mu=18.57 As =2.85 As(r)=1.47	Mu=7.88 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=2.14 As =1.98 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.00 As =2.85 As(r)=1.39	Mu=0.78 As =1.98 As(r)=1.39
Vu=-19.43		Vu=-2.59		Vu=13.26		Vu=-10.83		Vu=-10.26	
								Vu=-8.42	

VG-226/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-4.06 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-2.89 As =2.85 As(r)=1.40	Mu=-32.13 As =2.85 As(r)=2.62	Mu=-31.02 As =2.85 As(r)=2.52	Mu=-10.16 As =1.98 As(r)=1.55	Mu=-6.20 As =2.85 As(r)=1.39	Mu=-6.20 As =2.85 As(r)=1.39	Mu=-21.28 As =2.85 As(r)=1.69
Mu=0.00 As =2.85 As(r)=1.39	Mu=16.90 As =2.85 As(r)=1.95	Mu=27.91 As =2.85 As(r)=2.29	Mu=6.43 As =2.85 As(r)=1.39	Mu=6.43 As =1.98 As(r)=1.39	Mu=10.34 As =1.98 As(r)=1.39	Mu=10.34 As =2.85 As(r)=1.39	Mu=11.31 As =2.85 As(r)=1.39	Mu=7.09 As =2.85 As(r)=1.39	Mu=7.09 As =1.98 As(r)=1.39
Vu=-14.75		Vu=14.75		Vu=18.38		Vu=-16.33		Vu=-1.91	
								Vu=14.44	

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B=0.12 H=0.40 L=6.31					B=0.12 H=0.40 L=7.19				
Mu=-21.34 As =2.85 As(r)=1.69	Mu=-4.51 As =1.98 As(r)=1.39	Mu=-4.51 As =2.85 As(r)=1.39	Mu=-4.51 As =2.85 As(r)=1.39	Mu=-22.55 As =2.85 As(r)=1.79	Mu=-20.95 As =2.85 As(r)=1.66	Mu=-4.19 As =1.98 As(r)=1.39	Mu=-4.19 As =2.85 As(r)=1.39	Mu=-4.19 As =2.85 As(r)=1.39	Mu=-20.09 As =2.85 As(r)=1.59
Mu=7.11 As =1.98 As(r)=1.39	Mu=7.11 As =2.85 As(r)=1.39	Mu=16.29 As =2.85 As(r)=1.39	Mu=7.52 As =2.85 As(r)=1.39	Mu=7.52 As =1.98 As(r)=1.39	Mu=6.98 As =1.98 As(r)=1.39	Mu=5.17 As =2.85 As(r)=1.39	Mu=5.17 As =2.85 As(r)=1.39	Mu=5.17 As =3.59 As(r)=1.39	Mu=6.70 As =1.98 As(r)=1.39
Vu=-15.05		Vu=-0.89		Vu=17.27	Vu=-15.23		Vu=0.26		Vu=14.80

B=0.12 H=0.40 L=6.31					B=0.12 H=0.40 L=6.60				
Mu=-22.19 As =2.85 As(r)=1.76	Mu=-4.49 As =1.98 As(r)=1.39	Mu=-4.49 As =3.29 As(r)=1.39	Mu=-4.49 As =2.85 As(r)=1.39	Mu=-22.46 As =2.85 As(r)=1.79	Mu=-22.08 As =2.85 As(r)=1.76	Mu=-4.98 As =1.98 As(r)=1.39	Mu=-4.98 As =2.85 As(r)=1.39	Mu=-4.98 As =2.85 As(r)=1.39	Mu=-24.88 As =2.85 As(r)=1.99
Mu=7.40 As =1.98 As(r)=1.39	Mu=7.40 As =2.85 As(r)=1.39	Mu=15.57 As =2.85 As(r)=1.39	Mu=7.49 As =2.85 As(r)=1.39	Mu=7.49 As =1.98 As(r)=1.39	Mu=7.36 As =1.98 As(r)=1.39	Mu=7.36 As =2.85 As(r)=1.39	Mu=13.22 As =2.85 As(r)=1.39	Mu=8.29 As =1.98 As(r)=1.39	Mu=8.29 As =1.98 As(r)=1.39
Vu=-17.22		Vu=1.95		Vu=14.86	Vu=-15.21		Vu=1.37		Vu=15.24

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=0.22				
Mu=-25.97 As =2.85 As(r)=2.09	Mu=-5.19 As =1.98 As(r)=1.39	Mu=-5.19 As =3.14 As(r)=1.39	Mu=-5.19 As =2.85 As(r)=1.39	Mu=-8.03 As =1.98 As(r)=1.39	Mu=-4.20 As =1.98 As(r)=1.39	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-4.55 As =1.98 As(r)=1.39	Mu=-5.04 As =1.98 As(r)=1.39	Mu=-5.25 As =1.98 As(r)=1.39
Mu=8.66 As =1.98 As(r)=1.39	Mu=8.66 As =2.85 As(r)=1.39	Mu=18.46 As =2.85 As(r)=1.47	Mu=9.10 As =1.98 As(r)=1.39	Mu=5.19 As =1.98 As(r)=1.39	Mu=1.40 As =1.98 As(r)=1.39	Mu=1.05 As =2.85 As(r)=1.39	Mu=1.05 As =2.85 As(r)=1.39	Mu=1.05 As =2.85 As(r)=1.39	Mu=1.75 As =1.98 As(r)=1.39
Vu=-16.97		Vu=-2.99		Vu=11.29	Vu=1.41		Vu=0.61		Vu=1.92

VG-227/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-8.09 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =2.09 As(r)=1.39	Mu=-2.49 As =3.88 As(r)=1.67	Mu=-40.77 As =3.88 As(r)=3.41	Mu=-38.85 As =3.88 As(r)=3.23	Mu=-9.06 As =1.27 As(r)=1.82	Mu=-7.77 As =4.58 As(r)=1.39	Mu=-7.77 As =3.88 As(r)=1.39	Mu=-28.26 As =2.85 As(r)=2.28
Mu=0.00 As =2.85 As(r)=1.39	Mu=17.22 As =2.85 As(r)=2.12	Mu=30.45 As =2.85 As(r)=2.50	Mu=8.15 As =2.85 As(r)=1.39	Mu=8.15 As =1.98 As(r)=1.39	Mu=12.95 As =1.98 As(r)=1.39	Mu=12.95 As =2.85 As(r)=1.39	Mu=13.80 As =2.85 As(r)=1.39	Mu=9.42 As =2.85 As(r)=1.39	Mu=9.42 As =1.98 As(r)=1.39
Vu=-17.17		Vu=2.34		Vu=24.88	Vu=-22.63		Vu=-1.81		Vu=19.85

B=0.12 H=0.40 L=6.17				
Mu=-28.69 As =2.85 As(r)=2.32	Mu=-8.86 As =1.27 As(r)=1.39	Mu=-8.86 As =3.15 As(r)=1.39	Mu=-8.86 As =3.88 As(r)=1.39	Mu=-44.29 As =3.88 As(r)=3.74
Mu=9.56 As =1.98 As(r)=1.39	Mu=9.56 As =2.85 As(r)=1.39	Mu=18.79 As =2.85 As(r)=1.50	Mu=14.76 As =2.85 As(r)=1.39	Mu=14.76 As =1.98 As(r)=1.39
Vu=-20.37		Vu=-2.24		Vu=46.29

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VG-228/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-8.40 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =2.09 As(r)=1.39	Mu=-2.12 As =3.88 As(r)=1.58	Mu=-38.74 As =3.88 As(r)=3.22	Mu=-36.90 As =3.88 As(r)=3.05	Mu=-8.69 As =1.27 As(r)=1.71	Mu=-7.38 As =4.58 As(r)=1.39	Mu=-7.38 As =3.88 As(r)=1.39	Mu=-27.86 As =2.85 As(r)=2.25
Mu=0.00 As =2.85 As(r)=1.39	Mu=17.30 As =2.85 As(r)=2.10	Mu=29.87 As =2.85 As(r)=2.46	Mu=7.75 As =2.85 As(r)=1.39	Mu=7.75 As =1.98 As(r)=1.39	Mu=12.30 As =1.98 As(r)=1.39	Mu=12.30 As =2.85 As(r)=1.39	Mu=13.20 As =2.85 As(r)=1.39	Mu=9.29 As =2.85 As(r)=1.39	Mu=9.29 As =1.98 As(r)=1.39
Vu=-17.56		Vu=2.42		Vu=23.68		Vu=-21.55		Vu=-1.57	
								Vu=19.18	

B=0.12 H=0.40 L=6.16				
Mu=-27.46 As =2.85 As(r)=2.21	Mu=-2.14 As =1.27 As(r)=1.39	Mu=-0.00 As =3.33 As(r)=1.39	Mu=-0.00 As =3.88 As(r)=1.39	Mu=-7.19 As =3.88 As(r)=1.39
Mu=5.49 As =1.98 As(r)=1.39	Mu=5.49 As =2.85 As(r)=1.39	Mu=20.65 As =2.85 As(r)=1.69	Mu=12.76 As =2.85 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-20.22		Vu=-3.04		Vu=16.54

VG-229/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-5.05 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =2.09 As(r)=1.39	Mu=-2.06 As =3.88 As(r)=1.39	Mu=-28.77 As =3.88 As(r)=2.33	Mu=-27.67 As =3.88 As(r)=2.23	Mu=-8.79 As =1.27 As(r)=1.39	Mu=-5.53 As =4.58 As(r)=1.39	Mu=-5.53 As =3.88 As(r)=1.39	Mu=-21.44 As =2.85 As(r)=1.70
Mu=0.00 As =2.85 As(r)=1.39	Mu=16.83 As =2.85 As(r)=1.89	Mu=26.02 As =2.85 As(r)=2.17	Mu=5.75 As =2.85 As(r)=1.39	Mu=5.75 As =1.98 As(r)=1.39	Mu=9.22 As =1.98 As(r)=1.39	Mu=9.22 As =2.85 As(r)=1.39	Mu=10.12 As =2.85 As(r)=1.39	Mu=7.15 As =2.85 As(r)=1.39	Mu=7.15 As =1.98 As(r)=1.39
Vu=-15.60		Vu=15.60		Vu=16.97		Vu=-15.09		Vu=-1.42	
								Vu=13.92	

B=0.12 H=0.40 L=6.16				
Mu=-21.07 As =2.85 As(r)=1.67	Mu=-2.31 As =1.27 As(r)=1.39	Mu=-0.00 As =3.33 As(r)=1.39	Mu=-0.00 As =3.88 As(r)=1.39	Mu=-8.16 As =3.88 As(r)=1.39
Mu=4.21 As =1.98 As(r)=1.39	Mu=4.21 As =2.85 As(r)=1.39	Mu=20.82 As =2.85 As(r)=1.81	Mu=16.13 As =2.85 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-15.41		Vu=-4.82		Vu=20.10

VG-230/Piso 2

B=0.12 H=0.40 L=7.30					B=0.12 H=0.40 L=6.60				
Mu=-6.16 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =2.09 As(r)=1.39	Mu=-1.62 As =3.88 As(r)=1.39	Mu=-31.59 As =3.88 As(r)=2.57	Mu=-30.42 As =3.88 As(r)=2.47	Mu=-6.51 As =1.27 As(r)=1.39	Mu=-6.08 As =4.58 As(r)=1.39	Mu=-6.08 As =3.88 As(r)=1.39	Mu=-26.07 As =2.85 As(r)=2.09
Mu=0.00 As =2.85 As(r)=1.39	Mu=14.99 As =2.85 As(r)=1.72	Mu=23.94 As =2.85 As(r)=1.98	Mu=6.32 As =2.85 As(r)=1.39	Mu=6.32 As =1.98 As(r)=1.39	Mu=10.14 As =1.98 As(r)=1.39	Mu=10.14 As =2.85 As(r)=1.39	Mu=10.60 As =2.85 As(r)=1.39	Mu=8.69 As =2.85 As(r)=1.39	Mu=8.69 As =1.98 As(r)=1.39
Vu=-15.11		Vu=2.89		Vu=20.24		Vu=-18.78		Vu=-1.26	
								Vu=17.70	

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B=0.12 H=0.40 L=6.16				
Mu=-26.08 As =2.85 As(r)=2.09	Mu=-2.15 As =1.27 As(r)=1.39	Mu=-0.00 As =3.33 As(r)=1.39	Mu=-0.00 As =3.88 As(r)=1.39	Mu=-5.58 As =3.88 As(r)=1.39
Mu=5.22 As =1.98 As(r)=1.39	Mu=5.22 As =2.85 As(r)=1.39	Mu=21.35 As =2.85 As(r)=1.84	Mu=17.07 As =2.85 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-19.40		Vu=-4.51		Vu=19.10

VG-231/Piso 2

B=0.12 H=0.40 L=2.31					B=0.12 H=0.40 L=6.60				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-1.72 As =1.98 As(r)=1.39	Mu=-7.90 As =1.98 As(r)=1.39	Mu=-17.28 As =1.98 As(r)=1.60	Mu=-22.95 As =1.98 As(r)=1.83	Mu=-24.30 As =1.98 As(r)=1.94	Mu=-6.31 As =1.98 As(r)=1.39	Mu=-4.86 As =2.70 As(r)=1.39	Mu=-4.86 As =1.98 As(r)=1.39	Mu=-22.10 As =1.98 As(r)=1.76
Mu=0.30 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=4.59 As =1.98 As(r)=1.39	Mu=8.10 As =1.98 As(r)=1.39	Mu=8.10 As =1.98 As(r)=1.39	Mu=9.69 As =1.98 As(r)=1.39	Mu=7.37 As =1.98 As(r)=1.39	Mu=7.37 As =1.98 As(r)=1.39
Vu=3.51		Vu=9.31		Vu=10.82		Vu=-13.37		Vu=-1.32	

B=0.12 H=0.40 L=6.16				
Mu=-25.17 As =1.98 As(r)=2.02	Mu=-4.68 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39
Mu=5.03 As =1.98 As(r)=1.39	Mu=5.03 As =1.98 As(r)=1.39	Mu=18.61 As =1.98 As(r)=1.67	Mu=17.04 As =1.98 As(r)=1.39	Mu=6.19 As =1.98 As(r)=1.39
Vu=-15.88		Vu=-5.30		Vu=8.97

VG-233/Piso 2

B=0.12 H=0.40 L=6.17					B=0.12 H=0.40 L=6.60				
Mu=-41.94 As =3.88 As(r)=3.52	Mu=-8.39 As =3.88 As(r)=1.39	Mu=-8.39 As =4.14 As(r)=1.39	Mu=-8.39 As =2.85 As(r)=1.39	Mu=-29.46 As =2.85 As(r)=2.39	Mu=-28.32 As =2.85 As(r)=2.29	Mu=-6.21 As =3.88 As(r)=1.39	Mu=-6.21 As =3.29 As(r)=1.39	Mu=-6.21 As =2.85 As(r)=1.39	Mu=-31.05 As =2.85 As(r)=2.53
Mu=13.98 As =1.98 As(r)=1.39	Mu=13.98 As =1.98 As(r)=1.39	Mu=17.63 As =1.98 As(r)=1.42	Mu=9.82 As =1.98 As(r)=1.39	Mu=9.82 As =1.98 As(r)=1.39	Mu=9.44 As =1.98 As(r)=1.39	Mu=9.44 As =1.98 As(r)=1.39	Mu=15.50 As =1.98 As(r)=1.39	Mu=10.35 As =2.13 As(r)=1.39	Mu=10.35 As =1.98 As(r)=1.39
Vu=-43.53		Vu=2.57		Vu=19.57		Vu=-20.49		Vu=1.31	

B=0.12 H=0.40 L=6.60					B=0.12 H=0.40 L=0.10				
Mu=-32.17 As =2.85 As(r)=2.62	Mu=-6.43 As =3.88 As(r)=1.39	Mu=-6.43 As =2.85 As(r)=1.39	Mu=-6.43 As =2.85 As(r)=1.39	Mu=-9.04 As =1.98 As(r)=1.39	Mu=-4.89 As =1.98 As(r)=1.39	Mu=-5.00 As =3.88 As(r)=1.39	Mu=-5.15 As =1.98 As(r)=1.39	Mu=-5.74 As =3.88 As(r)=1.39	Mu=-5.86 As =1.98 As(r)=1.39
Mu=10.72 As =1.98 As(r)=1.39	Mu=10.72 As =1.98 As(r)=1.39	Mu=19.76 As =1.98 As(r)=1.57	Mu=9.37 As =3.02 As(r)=1.39	Mu=6.43 As =1.98 As(r)=1.39	Mu=1.63 As =1.98 As(r)=1.39	Mu=1.17 As =1.98 As(r)=1.39	Mu=1.17 As =1.98 As(r)=1.39	Mu=1.17 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39
Vu=-22.08		Vu=-2.85		Vu=12.18		Vu=2.23		Vu=2.39	

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VG-234/Piso 2

B=0.12 H=0.40 L=6.52					B=0.12 H=0.40 L=6.49				
Mu=-11.34 As =1.98 As(r)=1.39	Mu=-6.03 As =1.98 As(r)=1.39	Mu=-6.03 As =2.39 As(r)=1.39	Mu=-6.03 As =2.85 As(r)=1.39	Mu=-30.15 As =2.85 As(r)=2.45	Mu=-23.16 As =2.85 As(r)=1.85	Mu=-5.74 As =1.98 As(r)=1.39	Mu=-5.74 As =3.56 As(r)=1.39	Mu=-5.74 As =2.85 As(r)=1.39	Mu=-28.71 As =2.85 As(r)=2.32
Mu=6.03 As =1.98 As(r)=1.39	Mu=9.43 As =1.98 As(r)=1.39	Mu=16.57 As =1.98 As(r)=1.39	Mu=10.05 As =1.98 As(r)=1.39	Mu=10.05 As =1.98 As(r)=1.39	Mu=7.72 As =1.98 As(r)=1.39	Mu=7.72 As =1.98 As(r)=1.39	Mu=15.81 As =1.98 As(r)=1.39	Mu=9.57 As =1.98 As(r)=1.39	Mu=9.57 As =1.98 As(r)=1.39
Vu=-17.06		Vu=3.53		Vu=18.27	Vu=-18.88		Vu=1.46		Vu=18.93

B=0.12 H=0.40 L=5.68				
Mu=-27.29 As =2.85 As(r)=2.20	Mu=-4.11 As =1.98 As(r)=1.39	Mu=-0.00 As =3.19 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-3.44 As =1.98 As(r)=1.39
Mu=5.46 As =1.98 As(r)=1.39	Mu=5.46 As =1.98 As(r)=1.39	Mu=16.41 As =1.98 As(r)=1.41	Mu=12.19 As =1.98 As(r)=1.39	Mu=0.01 As =1.98 As(r)=1.39
Vu=-20.07		Vu=-4.62		Vu=10.29

VG-235/Piso 2

B=0.12 H=0.40 L=6.88					B=0.12 H=0.40 L=6.38				
Mu=-11.31 As =1.98 As(r)=1.39	Mu=-4.04 As =1.98 As(r)=1.39	Mu=-4.04 As =3.30 As(r)=1.39	Mu=-4.77 As =2.85 As(r)=1.39	Mu=-20.20 As =2.85 As(r)=1.60	Mu=-17.76 As =2.85 As(r)=1.40	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-3.85 As =2.85 As(r)=1.39	Mu=-3.85 As =2.85 As(r)=1.39	Mu=-19.27 As =2.85 As(r)=1.52
Mu=4.04 As =1.98 As(r)=1.39	Mu=9.22 As =1.98 As(r)=1.39	Mu=11.72 As =1.98 As(r)=1.39	Mu=6.73 As =1.98 As(r)=1.39	Mu=6.73 As =1.98 As(r)=1.39	Mu=5.92 As =1.98 As(r)=1.39	Mu=5.92 As =1.98 As(r)=1.39	Mu=14.97 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39
Vu=-15.46		Vu=1.95		Vu=11.15	Vu=-13.92		Vu=0.75		Vu=14.30

B=0.12 H=0.40 L=4.93				
Mu=-19.47 As =2.85 As(r)=1.54	Mu=-5.99 As =1.98 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-0.00 As =2.85 As(r)=1.39	Mu=-0.51 As =1.98 As(r)=1.39
Mu=3.89 As =1.98 As(r)=1.39	Mu=3.89 As =1.98 As(r)=1.39	Mu=9.79 As =1.98 As(r)=1.39	Mu=9.82 As =1.98 As(r)=1.39	Mu=1.24 As =1.98 As(r)=1.39
Vu=-13.39		Vu=-5.57		Vu=9.46

VG-236/Piso 2

B=0.12 H=0.40 L=7.24					B=0.12 H=0.40 L=6.27				
Mu=-3.34 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.93 As =2.85 As(r)=1.39	Mu=-19.56 As =2.85 As(r)=1.55	Mu=-26.53 As =2.85 As(r)=2.13	Mu=-5.31 As =1.98 As(r)=1.39	Mu=-5.31 As =3.41 As(r)=1.39	Mu=-5.31 As =2.85 As(r)=1.39	Mu=-22.63 As =1.98 As(r)=1.80
Mu=0.00 As =1.98 As(r)=1.39	Mu=3.77 As =1.98 As(r)=1.39	Mu=4.98 As =1.98 As(r)=1.39	Mu=3.91 As =1.98 As(r)=1.39	Mu=3.91 As =1.98 As(r)=1.39	Mu=8.84 As =1.98 As(r)=1.39	Mu=8.84 As =1.98 As(r)=1.39	Mu=19.36 As =1.98 As(r)=1.53	Mu=7.54 As =1.98 As(r)=1.39	Mu=7.54 As =1.98 As(r)=1.39
Vu=-8.71		Vu=-2.80		Vu=13.64	Vu=-20.53		Vu=0.50		Vu=19.43

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B=0.12 H=0.40 L=4.17				
Mu=-23.59 As =1.98 As(r)=1.88	Mu=-8.89 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.73 As =1.98 As(r)=1.39
Mu=4.72 As =1.98 As(r)=1.39	Mu=4.72 As =1.98 As(r)=1.39	Mu=6.13 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=1.00 As =1.98 As(r)=1.39
Vu=-16.02		Vu=-5.59		Vu=6.31

VG-237/Piso 2

B=0.12 H=0.40 L=6.16					B=0.12 H=0.40 L=2.99				
Mu=-5.50 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =2.51 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-22.88 As =1.98 As(r)=1.82	Mu=-19.85 As =1.98 As(r)=1.57	Mu=-10.70 As =1.98 As(r)=1.39	Mu=-0.69 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.08 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=8.18 As =1.98 As(r)=1.39	Mu=22.38 As =1.98 As(r)=1.78	Mu=4.58 As =1.98 As(r)=1.39	Mu=4.58 As =1.98 As(r)=1.39	Mu=3.97 As =1.98 As(r)=1.39	Mu=3.97 As =1.98 As(r)=1.39	Mu=3.97 As =1.98 As(r)=1.39	Mu=4.01 As =1.98 As(r)=1.39	Mu=3.83 As =1.98 As(r)=1.39
Vu=-10.76		Vu=1.51		Vu=20.02		Vu=-13.67		Vu=-8.15	

VG-238/Piso 2

B=0.12 H=0.40 L=6.16					B=0.12 H=0.40 L=2.55				
Mu=-6.22 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =2.51 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-15.80 As =1.98 As(r)=1.39	Mu=-12.88 As =1.98 As(r)=1.39	Mu=-8.23 As =1.98 As(r)=1.39	Mu=-3.05 As =1.98 As(r)=1.39	Mu=-0.55 As =1.98 As(r)=1.39	Mu=-0.41 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=12.99 As =1.98 As(r)=1.43	Mu=20.04 As =1.98 As(r)=1.62	Mu=3.16 As =1.98 As(r)=1.39	Mu=3.16 As =1.98 As(r)=1.39	Mu=2.58 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.69 As =1.98 As(r)=1.39	Mu=1.05 As =1.98 As(r)=1.39
Vu=-17.02		Vu=2.61		Vu=14.69		Vu=-8.19		Vu=-5.96	

VG-239/Piso 2

B=0.12 H=0.40 L=6.16					B=0.12 H=0.40 L=2.12				
Mu=-4.05 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =2.74 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-16.88 As =1.98 As(r)=1.39	Mu=-14.13 As =1.98 As(r)=1.39	Mu=-9.05 As =1.98 As(r)=1.39	Mu=-3.88 As =1.98 As(r)=1.39	Mu=-2.83 As =1.98 As(r)=1.39	Mu=-2.83 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=14.32 As =1.98 As(r)=1.44	Mu=18.54 As =1.98 As(r)=1.53	Mu=3.38 As =1.98 As(r)=1.39	Mu=3.38 As =1.98 As(r)=1.39	Mu=4.71 As =1.98 As(r)=1.39	Mu=2.83 As =1.98 As(r)=1.39	Mu=2.83 As =1.98 As(r)=1.39	Mu=2.83 As =1.98 As(r)=1.39	Mu=2.83 As =1.98 As(r)=1.39
Vu=-16.40		Vu=3.10		Vu=15.22		Vu=-9.99		Vu=-6.29	

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VG-240/Piso 2

B=0.12 H=0.40 L=5.16					B=0.12 H=0.40 L=4.00				
Mu=-12.61 As =1.98 As(r)=1.39	Mu=-2.52 As =1.98 As(r)=1.39	Mu=-2.52 As =3.16 As(r)=1.39	Mu=-2.52 As =1.98 As(r)=1.39	Mu=-5.79 As =1.98 As(r)=1.39	Mu=-5.43 As =1.98 As(r)=1.39	Mu=-4.30 As =1.98 As(r)=1.39	Mu=-2.64 As =1.98 As(r)=1.39	Mu=-2.64 As =1.98 As(r)=1.39	Mu=-2.64 As =1.98 As(r)=1.39
Mu=4.20 As =1.98 As(r)=1.39	Mu=4.20 As =1.98 As(r)=1.39	Mu=11.21 As =1.98 As(r)=1.39	Mu=5.41 As =1.98 As(r)=1.39	Mu=2.52 As =1.98 As(r)=1.39	Mu=1.81 As =1.98 As(r)=1.39	Mu=1.81 As =1.98 As(r)=1.39	Mu=7.74 As =1.98 As(r)=1.39	Mu=6.26 As =1.98 As(r)=1.39	Mu=1.55 As =1.98 As(r)=1.39
Vu=-14.56		Vu=-1.99		Vu=-10.97	Vu=-5.93		Vu=-9.23		Vu=9.23

VG-241/Piso 2

B=0.12 H=0.40 L=2.60					B=0.12 H=0.40 L=5.40				
Mu=-2.66 As =1.98 As(r)=1.39	Mu=-2.66 As =1.98 As(r)=1.39	Mu=-3.75 As =1.98 As(r)=1.39	Mu=-8.27 As =1.98 As(r)=1.39	Mu=-13.32 As =1.98 As(r)=1.39	Mu=-14.56 As =1.98 As(r)=1.39	Mu=-2.91 As =1.98 As(r)=1.39	Mu=-2.91 As =2.97 As(r)=1.39	Mu=-2.91 As =1.98 As(r)=1.39	Mu=-4.12 As =1.98 As(r)=1.39
Mu=2.66 As =1.98 As(r)=1.39	Mu=2.66 As =1.98 As(r)=1.39	Mu=2.66 As =1.98 As(r)=1.39	Mu=2.66 As =1.98 As(r)=1.39	Mu=4.44 As =1.98 As(r)=1.39	Mu=4.85 As =1.98 As(r)=1.39	Mu=4.85 As =1.98 As(r)=1.39	Mu=10.96 As =1.98 As(r)=1.39	Mu=5.73 As =1.98 As(r)=1.39	Mu=2.91 As =1.98 As(r)=1.39
Vu=-1.80		Vu=4.29		Vu=8.20	Vu=-10.38		Vu=-2.09		Vu=-7.35

B=0.12 H=0.40 L=4.00				
Mu=-3.65 As =1.98 As(r)=1.39	Mu=-2.05 As =1.98 As(r)=1.39	Mu=-1.52 As =1.98 As(r)=1.39	Mu=-1.52 As =1.98 As(r)=1.39	Mu=-1.52 As =1.98 As(r)=1.39
Mu=1.36 As =1.98 As(r)=1.39	Mu=1.36 As =1.98 As(r)=1.39	Mu=6.78 As =1.98 As(r)=1.39	Mu=5.70 As =1.98 As(r)=1.39	Mu=1.36 As =1.98 As(r)=1.39
Vu=-7.26		Vu=-3.51		Vu=8.20

VG-242/Piso 2

B=0.12 H=0.40 L=1.65					B=0.12 H=0.40 L=0.74				
Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.78 As =1.98 As(r)=1.39	Mu=-3.59 As =1.98 As(r)=1.39	Mu=-4.56 As =1.98 As(r)=1.39	Mu=-3.83 As =1.98 As(r)=1.39	Mu=-2.84 As =1.98 As(r)=1.39	Mu=-1.81 As =1.98 As(r)=1.39	Mu=-1.24 As =1.49 As(r)=1.39
Mu=8.07 As =1.98 As(r)=1.39	Mu=8.05 As =1.98 As(r)=1.39	Mu=5.76 As =1.98 As(r)=1.39	Mu=1.36 As =1.98 As(r)=1.39	Mu=0.72 As =1.98 As(r)=1.39	Mu=0.91 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.49 As(r)=1.39
Vu=0.82		Vu=5.24		Vu=9.82	Vu=-4.77		Vu=-4.08		Vu=-3.11

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VG-243/Piso 2

B=0.12 H=0.40 L=2.28				
Mu=-2.67 As =1.49 As(r)=1.39	Mu=-1.15 As =1.98 As(r)=1.39	Mu=-1.15 As =1.98 As(r)=1.39	Mu=-1.15 As =1.98 As(r)=1.39	Mu=-5.75 As =1.98 As(r)=1.39
Mu=1.15 As =1.49 As(r)=1.39	Mu=1.15 As =1.98 As(r)=1.39	Mu=1.15 As =1.98 As(r)=1.39	Mu=1.15 As =1.98 As(r)=1.39	Mu=1.92 As =1.98 As(r)=1.39
Vu=-5.36		Vu=6.36		Vu=4.16

VG-244/Piso 2

B=0.12 H=0.40 L=0.54					B=0.12 H=0.40 L=5.20				
Mu=-2.86 As =0.50 As(r)=1.39	Mu=-4.06 As =1.49 As(r)=1.39	Mu=-5.93 As =1.98 As(r)=1.39	Mu=-7.01 As =1.98 As(r)=1.39	Mu=-7.64 As =1.98 As(r)=1.39	Mu=-11.00 As =1.98 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-6.32 As =1.98 As(r)=1.39
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.49 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=1.53 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=12.38 As =1.98 As(r)=1.39	Mu=5.19 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39
Vu=7.39		Vu=7.95		Vu=4.09	Vu=-11.83		Vu=-1.83		Vu=-8.76

B=0.12 H=0.40 L=4.00				
Mu=-5.82 As =1.98 As(r)=1.39	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-1.46 As =1.98 As(r)=1.39	Mu=-1.46 As =1.98 As(r)=1.39	Mu=-1.46 As =1.98 As(r)=1.39
Mu=1.94 As =1.98 As(r)=1.39	Mu=1.94 As =1.98 As(r)=1.39	Mu=7.29 As =1.98 As(r)=1.39	Mu=6.75 As =1.98 As(r)=1.39	Mu=1.46 As =1.98 As(r)=1.39
Vu=-6.45		Vu=-8.03		Vu=8.03

VG-245/Piso 2

B=0.12 H=0.40 L=4.89					B=0.12 H=0.40 L=0.74				
Mu=-5.43 As =1.98 As(r)=1.39	Mu=-2.85 As =1.98 As(r)=1.39	Mu=-2.85 As =1.98 As(r)=1.39	Mu=-2.85 As =1.98 As(r)=1.39	Mu=-11.60 As =1.98 As(r)=1.39	Mu=-8.83 As =1.98 As(r)=1.39	Mu=-6.94 As =1.98 As(r)=1.39	Mu=-4.20 As =1.98 As(r)=1.39	Mu=-1.78 As =1.98 As(r)=1.39	Mu=-0.42 As =1.49 As(r)=1.39
Mu=2.85 As =1.98 As(r)=1.39	Mu=4.41 As =1.98 As(r)=1.39	Mu=14.24 As =1.98 As(r)=1.39	Mu=3.87 As =1.98 As(r)=1.39	Mu=3.87 As =1.98 As(r)=1.39	Mu=1.77 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.49 As(r)=1.39
Vu=-9.53		Vu=0.58		Vu=14.33	Vu=-9.59		Vu=-8.90		Vu=-6.69

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VG-246/Piso 2

B=0.12 H=0.40 L=0.54					B=0.12 H=0.40 L=5.40				
Mu=-0.84 As =0.50 As(r)=1.39	Mu=-2.02 As =1.49 As(r)=1.39	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-6.22 As =1.98 As(r)=1.39	Mu=-7.63 As =1.98 As(r)=1.39	Mu=-14.84 As =1.98 As(r)=1.39	Mu=-3.44 As =1.98 As(r)=1.39	Mu=-3.44 As =1.98 As(r)=1.39	Mu=-3.44 As =1.98 As(r)=1.39	Mu=-15.29 As =1.98 As(r)=1.39
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.49 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=1.53 As =1.98 As(r)=1.39	Mu=4.95 As =1.98 As(r)=1.39	Mu=4.95 As =1.98 As(r)=1.39	Mu=17.22 As =1.98 As(r)=1.39	Mu=5.10 As =1.98 As(r)=1.39	Mu=5.10 As =1.98 As(r)=1.39
Vu=7.63		Vu=8.18		Vu=8.93	Vu=-15.42		Vu=-15.42		Vu=-15.99

B=0.12 H=0.40 L=4.00				
Mu=-14.47 As =1.98 As(r)=1.39	Mu=-10.32 As =1.98 As(r)=1.39	Mu=-3.06 As =1.98 As(r)=1.39	Mu=-3.06 As =1.98 As(r)=1.39	Mu=-3.06 As =1.98 As(r)=1.39
Mu=4.82 As =1.98 As(r)=1.39	Mu=4.82 As =1.98 As(r)=1.39	Mu=10.69 As =1.98 As(r)=1.39	Mu=9.45 As =1.98 As(r)=1.39	Mu=3.06 As =1.98 As(r)=1.39
Vu=-12.64		Vu=-9.97		Vu=9.97

VG-247/Piso 2

B=0.12 H=0.40 L=5.20					B=0.12 H=0.40 L=3.95				
Mu=-5.56 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-15.04 As =1.98 As(r)=1.39	Mu=-15.20 As =1.98 As(r)=1.39	Mu=-4.02 As =1.98 As(r)=1.39	Mu=-3.04 As =2.97 As(r)=1.39	Mu=-3.04 As =1.98 As(r)=1.39	Mu=-9.32 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=8.68 As =1.98 As(r)=1.39	Mu=15.22 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=5.07 As =1.98 As(r)=1.39	Mu=3.04 As =1.98 As(r)=1.39	Mu=4.52 As =1.98 As(r)=1.39	Mu=4.52 As =1.98 As(r)=1.39	Mu=4.52 As =1.98 As(r)=1.39
Vu=-14.08		Vu=1.66		Vu=17.16	Vu=-12.90		Vu=-2.73		Vu=11.40

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-8.43 As =1.98 As(r)=1.39	Mu=-3.51 As =1.98 As(r)=1.39	Mu=-3.51 As =1.98 As(r)=1.39	Mu=-5.58 As =1.98 As(r)=1.39	Mu=-17.53 As =1.98 As(r)=1.39	Mu=-16.95 As =1.98 As(r)=1.39	Mu=-3.67 As =1.98 As(r)=1.39	Mu=-3.67 As =2.51 As(r)=1.39	Mu=-3.67 As =1.98 As(r)=1.39	Mu=-18.35 As =1.98 As(r)=1.45
Mu=3.51 As =1.98 As(r)=1.39	Mu=3.51 As =1.98 As(r)=1.39	Mu=3.51 As =1.98 As(r)=1.39	Mu=3.51 As =1.98 As(r)=1.39	Mu=5.84 As =1.98 As(r)=1.39	Mu=5.65 As =1.98 As(r)=1.39	Mu=5.65 As =1.98 As(r)=1.39	Mu=15.19 As =1.98 As(r)=1.39	Mu=6.12 As =1.98 As(r)=1.39	Mu=6.12 As =1.98 As(r)=1.39
Vu=-9.61		Vu=1.29		Vu=13.70	Vu=-16.82		Vu=0.67		Vu=17.78

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-16.66 As =1.98 As(r)=1.39	Mu=-5.46 As =1.98 As(r)=1.39	Mu=-3.77 As =1.98 As(r)=1.39	Mu=-7.22 As =1.98 As(r)=1.39	Mu=-18.87 As =1.98 As(r)=1.49	Mu=-18.00 As =1.98 As(r)=1.42	Mu=-4.47 As =1.98 As(r)=1.39	Mu=-4.47 As =2.51 As(r)=1.39	Mu=-4.47 As =1.98 As(r)=1.39	Mu=-22.35 As =1.98 As(r)=1.78
Mu=5.55 As =1.98 As(r)=1.39	Mu=3.77 As =1.98 As(r)=1.39	Mu=3.77 As =1.98 As(r)=1.39	Mu=3.77 As =1.98 As(r)=1.39	Mu=6.29 As =1.98 As(r)=1.39	Mu=6.00 As =1.98 As(r)=1.39	Mu=6.00 As =1.98 As(r)=1.39	Mu=16.95 As =1.98 As(r)=1.39	Mu=7.45 As =1.98 As(r)=1.39	Mu=7.45 As =1.98 As(r)=1.39
Vu=-14.06		Vu=1.53		Vu=14.50	Vu=-18.19		Vu=0.76		Vu=19.40

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B=0.12 H=0.40 L=4.00				
Mu=-21.53 As =1.98 As(r)=1.71	Mu=-5.93 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.30 As =1.98 As(r)=1.39
Mu=4.31 As =1.98 As(r)=1.39	Mu=4.31 As =1.98 As(r)=1.39	Mu=10.01 As =1.98 As(r)=1.39	Mu=8.30 As =3.32 As(r)=1.39	Mu=0.60 As =1.98 As(r)=1.39
Vu=-17.14		Vu=-7.29		Vu=10.16

VG-248/Piso 2

B=0.12 H=0.40 L=5.20					B=0.12 H=0.40 L=3.95				
Mu=-3.57 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-8.05 As =1.98 As(r)=1.39	Mu=-7.82 As =1.98 As(r)=1.39	Mu=-2.81 As =1.98 As(r)=1.39	Mu=-1.56 As =2.97 As(r)=1.39	Mu=-1.56 As =1.98 As(r)=1.39	Mu=-6.75 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=8.98 As =1.98 As(r)=1.39	Mu=14.50 As =1.98 As(r)=1.39	Mu=4.51 As =1.98 As(r)=1.39	Mu=1.61 As =1.98 As(r)=1.39	Mu=2.61 As =1.98 As(r)=1.39	Mu=1.69 As =1.98 As(r)=1.39	Mu=1.69 As =1.98 As(r)=1.39	Mu=1.69 As =1.98 As(r)=1.39	Mu=2.25 As =1.98 As(r)=1.39
Vu=-12.79		Vu=1.49		Vu=12.62	Vu=-6.51		Vu=-0.48		Vu=7.20

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-5.75 As =1.98 As(r)=1.39	Mu=-2.07 As =1.98 As(r)=1.39	Mu=-2.07 As =1.98 As(r)=1.39	Mu=-4.71 As =1.98 As(r)=1.39	Mu=-10.33 As =1.98 As(r)=1.39	Mu=-8.69 As =1.98 As(r)=1.39	Mu=-2.16 As =1.98 As(r)=1.39	Mu=-2.16 As =2.51 As(r)=1.39	Mu=-2.16 As =1.98 As(r)=1.39	Mu=-10.15 As =1.98 As(r)=1.39
Mu=2.07 As =1.98 As(r)=1.39	Mu=2.07 As =1.98 As(r)=1.39	Mu=2.07 As =1.98 As(r)=1.39	Mu=2.07 As =1.98 As(r)=1.39	Mu=3.44 As =1.98 As(r)=1.39	Mu=2.90 As =1.98 As(r)=1.39	Mu=2.90 As =1.98 As(r)=1.39	Mu=10.79 As =1.98 As(r)=1.39	Mu=3.38 As =1.98 As(r)=1.39	Mu=3.38 As =1.98 As(r)=1.39
Vu=-6.29		Vu=1.51		Vu=7.11	Vu=-10.56		Vu=0.58		Vu=10.94

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-10.39 As =1.98 As(r)=1.39	Mu=-4.81 As =1.98 As(r)=1.39	Mu=-2.31 As =1.98 As(r)=1.39	Mu=-5.45 As =1.98 As(r)=1.39	Mu=-11.57 As =1.98 As(r)=1.39	Mu=-8.85 As =1.98 As(r)=1.39	Mu=-2.19 As =1.98 As(r)=1.39	Mu=-2.19 As =2.51 As(r)=1.39	Mu=-2.19 As =1.98 As(r)=1.39	Mu=-10.44 As =1.98 As(r)=1.39
Mu=3.46 As =1.98 As(r)=1.39	Mu=2.31 As =1.98 As(r)=1.39	Mu=2.31 As =1.98 As(r)=1.39	Mu=2.31 As =1.98 As(r)=1.39	Mu=3.86 As =1.98 As(r)=1.39	Mu=2.95 As =1.98 As(r)=1.39	Mu=2.95 As =1.98 As(r)=1.39	Mu=10.97 As =1.98 As(r)=1.39	Mu=3.48 As =1.98 As(r)=1.39	Mu=3.48 As =1.98 As(r)=1.39
Vu=-7.74		Vu=0.21		Vu=8.27	Vu=-10.71		Vu=0.52		Vu=10.53

B=0.12 H=0.40 L=4.00				
Mu=-9.67 As =1.98 As(r)=1.39	Mu=-2.41 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.62 As =1.98 As(r)=1.39
Mu=1.93 As =1.98 As(r)=1.39	Mu=1.93 As =1.98 As(r)=1.39	Mu=5.96 As =1.98 As(r)=1.39	Mu=5.77 As =3.32 As(r)=1.39	Mu=0.45 As =1.98 As(r)=1.39
Vu=-8.71		Vu=-3.13		Vu=7.86

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VG-249/Piso 2

B=0.12 H=0.40 L=5.20					B=0.12 H=0.40 L=3.95				
Mu=-2.43 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-6.20 As =1.98 As(r)=1.39	Mu=-5.94 As =1.98 As(r)=1.39	Mu=-2.58 As =1.98 As(r)=1.39	Mu=-1.19 As =2.97 As(r)=1.39	Mu=-1.60 As =1.98 As(r)=1.39	Mu=-5.93 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=9.47 As =1.98 As(r)=1.39	Mu=14.31 As =1.98 As(r)=1.39	Mu=5.21 As =1.98 As(r)=1.39	Mu=1.24 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.19 As =1.98 As(r)=1.39	Mu=1.19 As =1.98 As(r)=1.39	Mu=1.19 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39
Vu=-12.30		Vu=1.68		Vu=11.66	Vu=-4.86		Vu=0.57		Vu=6.01

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-5.27 As =1.98 As(r)=1.39	Mu=-1.61 As =1.98 As(r)=1.39	Mu=-1.61 As =1.98 As(r)=1.39	Mu=-3.91 As =1.98 As(r)=1.39	Mu=-8.07 As =1.98 As(r)=1.39	Mu=-6.60 As =1.98 As(r)=1.39	Mu=-1.85 As =1.98 As(r)=1.39	Mu=-1.85 As =2.51 As(r)=1.39	Mu=-1.85 As =1.98 As(r)=1.39	Mu=-7.67 As =1.98 As(r)=1.39
Mu=1.76 As =1.98 As(r)=1.39	Mu=1.61 As =1.98 As(r)=1.39	Mu=1.61 As =1.98 As(r)=1.39	Mu=1.61 As =1.98 As(r)=1.39	Mu=2.69 As =1.98 As(r)=1.39	Mu=2.20 As =1.98 As(r)=1.39	Mu=2.36 As =1.98 As(r)=1.39	Mu=9.23 As =1.98 As(r)=1.39	Mu=2.56 As =1.98 As(r)=1.39	Mu=2.56 As =1.98 As(r)=1.39
Vu=-5.57		Vu=1.88		Vu=5.65	Vu=-9.14		Vu=0.32		Vu=9.50

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-9.05 As =1.98 As(r)=1.39	Mu=-4.66 As =1.98 As(r)=1.39	Mu=-2.34 As =1.98 As(r)=1.39	Mu=-4.80 As =1.98 As(r)=1.39	Mu=-9.32 As =1.98 As(r)=1.39	Mu=-6.47 As =1.98 As(r)=1.39	Mu=-1.74 As =1.98 As(r)=1.39	Mu=-1.74 As =2.51 As(r)=1.39	Mu=-1.74 As =1.98 As(r)=1.39	Mu=-6.81 As =1.98 As(r)=1.39
Mu=3.02 As =1.98 As(r)=1.39	Mu=1.86 As =1.98 As(r)=1.39	Mu=1.86 As =1.98 As(r)=1.39	Mu=1.86 As =1.98 As(r)=1.39	Mu=3.11 As =1.98 As(r)=1.39	Mu=2.16 As =1.98 As(r)=1.39	Mu=2.26 As =1.98 As(r)=1.39	Mu=8.72 As =1.98 As(r)=1.39	Mu=2.27 As =1.98 As(r)=1.39	Mu=2.27 As =1.98 As(r)=1.39
Vu=-6.40		Vu=0.08		Vu=6.52	Vu=-9.04		Vu=0.31		Vu=8.48

B=0.12 H=0.40 L=4.00				
Mu=-6.24 As =1.98 As(r)=1.39	Mu=-0.71 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.01 As =1.98 As(r)=1.39
Mu=1.25 As =1.98 As(r)=1.39	Mu=1.25 As =1.98 As(r)=1.39	Mu=4.90 As =1.98 As(r)=1.39	Mu=4.63 As =3.32 As(r)=1.39	Mu=0.08 As =1.98 As(r)=1.39
Vu=-7.01		Vu=-1.44		Vu=7.47

VG-250/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.04 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.01 As =1.98 As(r)=1.39	Mu=-3.28 As =1.98 As(r)=1.39	Mu=-3.28 As =1.98 As(r)=1.39	Mu=-3.28 As =1.98 As(r)=1.39	Mu=-3.28 As =1.98 As(r)=1.39	Mu=-9.93 As =1.98 As(r)=1.39
Mu=0.10 As =0.50 As(r)=1.39	Mu=0.47 As =1.98 As(r)=1.39	Mu=1.06 As =1.98 As(r)=1.39	Mu=1.46 As =1.98 As(r)=1.39	Mu=1.57 As =1.98 As(r)=1.39	Mu=3.28 As =1.98 As(r)=1.39	Mu=10.22 As =1.98 As(r)=1.39	Mu=16.19 As =1.98 As(r)=1.39	Mu=4.01 As =1.98 As(r)=1.39	Mu=3.31 As =1.98 As(r)=1.39
Vu=-3.01		Vu=-2.30		Vu=1.83	Vu=-12.59		Vu=1.46		Vu=13.65

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B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-9.38 As =1.98 As(r)=1.39	Mu=-4.22 As =1.98 As(r)=1.39	Mu=-1.88 As =2.97 As(r)=1.39	Mu=-1.88 As =1.98 As(r)=1.39	Mu=-6.18 As =1.98 As(r)=1.39	Mu=-6.10 As =1.98 As(r)=1.39	Mu=-2.06 As =1.98 As(r)=1.39	Mu=-2.06 As =1.98 As(r)=1.39	Mu=-4.66 As =1.98 As(r)=1.39	Mu=-10.29 As =1.98 As(r)=1.39
Mu=3.13 As =1.98 As(r)=1.39	Mu=1.88 As =1.98 As(r)=1.39	Mu=1.88 As =1.98 As(r)=1.39	Mu=1.88 As =1.98 As(r)=1.39	Mu=2.06 As =1.98 As(r)=1.39	Mu=2.06 As =1.98 As(r)=1.39	Mu=2.06 As =1.98 As(r)=1.39	Mu=2.06 As =1.98 As(r)=1.39	Mu=2.06 As =1.98 As(r)=1.39	Mu=3.43 As =1.98 As(r)=1.39
Vu=-6.61		Vu=-1.01		Vu=6.62		Vu=-6.42		Vu=1.36	
								Vu=7.11	

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-10.07 As =1.98 As(r)=1.39	Mu=-2.35 As =1.98 As(r)=1.39	Mu=-2.35 As =2.51 As(r)=1.39	Mu=-2.35 As =1.98 As(r)=1.39	Mu=-9.95 As =1.98 As(r)=1.39	Mu=-10.86 As =1.98 As(r)=1.39	Mu=-5.50 As =1.98 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-5.18 As =1.98 As(r)=1.39	Mu=-10.45 As =1.98 As(r)=1.39
Mu=3.36 As =1.98 As(r)=1.39	Mu=3.36 As =1.98 As(r)=1.39	Mu=11.73 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=3.62 As =1.98 As(r)=1.39	Mu=2.17 As =1.98 As(r)=1.39	Mu=2.17 As =1.98 As(r)=1.39	Mu=2.17 As =1.98 As(r)=1.39	Mu=3.48 As =1.98 As(r)=1.39
Vu=-11.02		Vu=-0.31		Vu=11.28		Vu=-7.45		Vu=-0.25	
								Vu=7.37	

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.18 As =1.98 As(r)=1.39	Mu=-2.20 As =1.98 As(r)=1.39	Mu=-2.20 As =2.51 As(r)=1.39	Mu=-2.20 As =1.98 As(r)=1.39	Mu=-9.91 As =1.98 As(r)=1.39	Mu=-9.51 As =1.98 As(r)=1.39	Mu=-2.33 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.64 As =1.98 As(r)=1.39
Mu=3.06 As =1.98 As(r)=1.39	Mu=3.06 As =1.98 As(r)=1.39	Mu=10.99 As =1.98 As(r)=1.39	Mu=3.30 As =3.32 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39	Mu=1.90 As =1.98 As(r)=1.39	Mu=1.90 As =1.98 As(r)=1.39	Mu=5.91 As =1.98 As(r)=1.39	Mu=5.71 As =1.98 As(r)=1.39	Mu=0.40 As =1.98 As(r)=1.39
Vu=-10.77		Vu=0.52		Vu=10.39		Vu=-8.62		Vu=-3.06	
								Vu=7.83	

VG-251/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.08 As =0.50 As(r)=1.39	Mu=-0.17 As =1.98 As(r)=1.39	Mu=-0.74 As =1.98 As(r)=1.39	Mu=-1.87 As =1.98 As(r)=1.39	Mu=-2.71 As =1.98 As(r)=1.39	Mu=-7.25 As =1.98 As(r)=1.39	Mu=-4.35 As =1.98 As(r)=1.39	Mu=-4.35 As =1.98 As(r)=1.39	Mu=-4.35 As =1.98 As(r)=1.39	Mu=-21.73 As =1.98 As(r)=1.73
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.02 As =1.98 As(r)=1.39	Mu=0.02 As =1.98 As(r)=1.39	Mu=0.54 As =1.98 As(r)=1.39	Mu=4.35 As =1.98 As(r)=1.39	Mu=10.32 As =1.98 As(r)=1.39	Mu=21.03 As =1.98 As(r)=1.67	Mu=7.24 As =1.98 As(r)=1.39	Mu=7.24 As =1.98 As(r)=1.39
Vu=1.22		Vu=2.93		Vu=4.28		Vu=-16.58		Vu=-1.28	
								Vu=21.75	

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-20.97 As =1.98 As(r)=1.66	Mu=-6.69 As =1.98 As(r)=1.39	Mu=-4.19 As =2.97 As(r)=1.39	Mu=-4.19 As =1.98 As(r)=1.39	Mu=-11.11 As =1.98 As(r)=1.39	Mu=-11.75 As =1.98 As(r)=1.39	Mu=-4.00 As =1.98 As(r)=1.39	Mu=-4.00 As =1.98 As(r)=1.39	Mu=-6.10 As =1.98 As(r)=1.39	Mu=-20.00 As =1.98 As(r)=1.58
Mu=6.99 As =1.98 As(r)=1.39	Mu=6.14 As =1.98 As(r)=1.39	Mu=6.14 As =1.98 As(r)=1.39	Mu=4.19 As =1.98 As(r)=1.39	Mu=4.19 As =1.98 As(r)=1.39	Mu=4.00 As =1.98 As(r)=1.39	Mu=4.00 As =1.98 As(r)=1.39	Mu=5.93 As =1.98 As(r)=1.39	Mu=5.93 As =1.98 As(r)=1.39	Mu=6.67 As =1.98 As(r)=1.39
Vu=-15.92		Vu=-5.09		Vu=12.59		Vu=-12.39		Vu=-1.29	
								Vu=15.60	

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-21.59 As =1.98 As(r)=1.71	Mu=-4.32 As =1.98 As(r)=1.39	Mu=-4.32 As =2.51 As(r)=1.39	Mu=-4.32 As =1.98 As(r)=1.39	Mu=-19.33 As =1.98 As(r)=1.53	Mu=-18.37 As =1.98 As(r)=1.45	Mu=-7.27 As =1.98 As(r)=1.39	Mu=-3.67 As =1.98 As(r)=1.39	Mu=-6.26 As =1.98 As(r)=1.39	Mu=-17.01 As =1.98 As(r)=1.39
Mu=7.20 As =1.98 As(r)=1.39	Mu=7.20 As =1.98 As(r)=1.39	Mu=17.83 As =1.98 As(r)=1.40	Mu=6.44 As =1.98 As(r)=1.39	Mu=6.44 As =1.98 As(r)=1.39	Mu=6.12 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39
Vu=-19.32		Vu=-0.80		Vu=19.11	Vu=-13.88		Vu=-1.04		Vu=13.53

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-18.82 As =1.98 As(r)=1.48	Mu=-4.28 As =1.98 As(r)=1.39	Mu=-4.28 As =2.51 As(r)=1.39	Mu=-4.28 As =1.98 As(r)=1.39	Mu=-21.42 As =1.98 As(r)=1.70	Mu=-21.17 As =1.98 As(r)=1.68	Mu=-5.86 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.24 As =1.98 As(r)=1.39
Mu=6.27 As =1.98 As(r)=1.39	Mu=6.27 As =1.98 As(r)=1.39	Mu=16.98 As =1.98 As(r)=1.39	Mu=7.14 As =3.32 As(r)=1.39	Mu=7.14 As =1.98 As(r)=1.39	Mu=4.23 As =1.98 As(r)=1.39	Mu=4.23 As =1.98 As(r)=1.39	Mu=9.76 As =1.98 As(r)=1.39	Mu=8.16 As =1.98 As(r)=1.39	Mu=0.52 As =1.98 As(r)=1.39
Vu=-18.24		Vu=0.96		Vu=19.00	Vu=-16.83		Vu=-7.12		Vu=9.96

VG-252/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.02 As =0.50 As(r)=1.39	Mu=-0.28 As =1.98 As(r)=1.39	Mu=-1.25 As =1.98 As(r)=1.39	Mu=-2.77 As =1.98 As(r)=1.39	Mu=-3.80 As =1.98 As(r)=1.39	Mu=-5.65 As =1.98 As(r)=1.39	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-20.69 As =1.98 As(r)=1.64
Mu=0.05 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.76 As =1.98 As(r)=1.39	Mu=4.14 As =1.98 As(r)=1.39	Mu=10.14 As =1.98 As(r)=1.39	Mu=19.53 As =1.98 As(r)=1.54	Mu=6.90 As =1.98 As(r)=1.39	Mu=6.90 As =1.98 As(r)=1.39
Vu=1.63		Vu=3.69		Vu=5.23	Vu=-15.18		Vu=0.90		Vu=20.05

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-19.78 As =1.98 As(r)=1.56	Mu=-7.44 As =1.98 As(r)=1.39	Mu=-3.96 As =2.97 As(r)=1.39	Mu=-3.96 As =1.98 As(r)=1.39	Mu=-9.17 As =1.98 As(r)=1.39	Mu=-9.99 As =1.98 As(r)=1.39	Mu=-3.63 As =1.98 As(r)=1.39	Mu=-3.63 As =1.98 As(r)=1.39	Mu=-6.08 As =1.98 As(r)=1.39	Mu=-18.13 As =1.98 As(r)=1.43
Mu=6.59 As =1.98 As(r)=1.39	Mu=4.54 As =1.98 As(r)=1.39	Mu=4.54 As =1.98 As(r)=1.39	Mu=3.96 As =1.98 As(r)=1.39	Mu=3.96 As =1.98 As(r)=1.39	Mu=3.63 As =1.98 As(r)=1.39	Mu=3.63 As =1.98 As(r)=1.39	Mu=4.91 As =1.98 As(r)=1.39	Mu=4.91 As =1.98 As(r)=1.39	Mu=6.04 As =1.98 As(r)=1.39
Vu=-13.82		Vu=-4.76		Vu=10.47	Vu=-10.56		Vu=-0.89		Vu=13.60

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-19.84 As =1.98 As(r)=1.57	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =2.51 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-17.41 As =1.98 As(r)=1.39	Mu=-17.23 As =1.98 As(r)=1.39	Mu=-7.20 As =1.98 As(r)=1.39	Mu=-3.45 As =1.98 As(r)=1.39	Mu=-6.26 As =1.98 As(r)=1.39	Mu=-16.01 As =1.98 As(r)=1.39
Mu=6.61 As =1.98 As(r)=1.39	Mu=6.61 As =1.98 As(r)=1.39	Mu=17.26 As =1.98 As(r)=1.39	Mu=5.80 As =1.98 As(r)=1.39	Mu=5.80 As =1.98 As(r)=1.39	Mu=5.74 As =1.98 As(r)=1.39	Mu=3.45 As =1.98 As(r)=1.39	Mu=3.45 As =1.98 As(r)=1.39	Mu=3.45 As =1.98 As(r)=1.39	Mu=5.34 As =1.98 As(r)=1.39
Vu=-17.66		Vu=-0.84		Vu=17.55	Vu=-12.64		Vu=-1.00		Vu=12.40

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-17.61 As =1.98 As(r)=1.39	Mu=-4.05 As =1.98 As(r)=1.39	Mu=-4.05 As =2.51 As(r)=1.39	Mu=-4.05 As =1.98 As(r)=1.39	Mu=-20.27 As =1.98 As(r)=1.60	Mu=-20.45 As =1.98 As(r)=1.62	Mu=-6.01 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.87 As =1.98 As(r)=1.39
Mu=5.87 As =1.98 As(r)=1.39	Mu=5.87 As =1.98 As(r)=1.39	Mu=16.50 As =1.98 As(r)=1.39	Mu=6.76 As =3.32 As(r)=1.39	Mu=6.76 As =1.98 As(r)=1.39	Mu=4.09 As =1.98 As(r)=1.39	Mu=4.09 As =1.98 As(r)=1.39	Mu=9.30 As =1.98 As(r)=1.39	Mu=8.29 As =1.98 As(r)=1.39	Mu=1.03 As =1.98 As(r)=1.39
Vu=-17.07		Vu=0.92		Vu=17.86	Vu=-15.81		Vu=-7.00		Vu=9.50

VG-253/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.08 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-3.08 As =1.98 As(r)=1.39	Mu=-3.08 As =1.98 As(r)=1.39	Mu=-3.08 As =1.98 As(r)=1.39	Mu=-3.08 As =1.98 As(r)=1.39	Mu=-11.15 As =1.98 As(r)=1.39
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.42 As =1.98 As(r)=1.39	Mu=0.96 As =1.98 As(r)=1.39	Mu=1.02 As =1.98 As(r)=1.39	Mu=0.89 As =1.98 As(r)=1.39	Mu=3.08 As =1.98 As(r)=1.39	Mu=10.48 As =1.98 As(r)=1.39	Mu=14.59 As =1.98 As(r)=1.39	Mu=3.72 As =1.98 As(r)=1.39	Mu=3.72 As =1.98 As(r)=1.39
Vu=-2.56		Vu=-0.98		Vu=0.88	Vu=-11.31		Vu=2.27		Vu=13.35

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-10.66 As =1.98 As(r)=1.39	Mu=-5.74 As =1.98 As(r)=1.39	Mu=-2.13 As =2.97 As(r)=1.39	Mu=-2.13 As =1.98 As(r)=1.39	Mu=-5.04 As =1.98 As(r)=1.39	Mu=-5.50 As =1.98 As(r)=1.39	Mu=-1.93 As =1.98 As(r)=1.39	Mu=-1.93 As =1.98 As(r)=1.39	Mu=-4.64 As =1.98 As(r)=1.39	Mu=-9.67 As =1.98 As(r)=1.39
Mu=3.55 As =1.98 As(r)=1.39	Mu=2.13 As =1.98 As(r)=1.39	Mu=2.13 As =1.98 As(r)=1.39	Mu=2.13 As =1.98 As(r)=1.39	Mu=2.13 As =1.98 As(r)=1.39	Mu=1.93 As =1.98 As(r)=1.39	Mu=1.93 As =1.98 As(r)=1.39	Mu=1.93 As =1.98 As(r)=1.39	Mu=1.93 As =1.98 As(r)=1.39	Mu=3.22 As =1.98 As(r)=1.39
Vu=-6.34		Vu=-1.18		Vu=5.66	Vu=-6.03		Vu=1.80		Vu=6.48

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-10.03 As =1.98 As(r)=1.39	Mu=-2.35 As =1.98 As(r)=1.39	Mu=-2.35 As =2.51 As(r)=1.39	Mu=-2.35 As =1.98 As(r)=1.39	Mu=-8.86 As =1.98 As(r)=1.39	Mu=-10.75 As =1.98 As(r)=1.39	Mu=-5.73 As =1.98 As(r)=1.39	Mu=-2.61 As =1.98 As(r)=1.39	Mu=-5.34 As =1.98 As(r)=1.39	Mu=-10.23 As =1.98 As(r)=1.39
Mu=3.34 As =1.98 As(r)=1.39	Mu=3.34 As =1.98 As(r)=1.39	Mu=11.74 As =1.98 As(r)=1.39	Mu=3.27 As =1.98 As(r)=1.39	Mu=2.95 As =1.98 As(r)=1.39	Mu=3.58 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=3.41 As =1.98 As(r)=1.39
Vu=-10.89		Vu=-0.44		Vu=10.94	Vu=-7.05		Vu=-0.27		Vu=6.94

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.20 As =1.98 As(r)=1.39	Mu=-2.20 As =1.98 As(r)=1.39	Mu=-2.20 As =2.51 As(r)=1.39	Mu=-2.20 As =1.98 As(r)=1.39	Mu=-9.87 As =1.98 As(r)=1.39	Mu=-10.22 As =1.98 As(r)=1.39	Mu=-2.95 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.19 As =1.98 As(r)=1.39
Mu=3.07 As =1.98 As(r)=1.39	Mu=3.07 As =1.98 As(r)=1.39	Mu=10.99 As =1.98 As(r)=1.39	Mu=3.29 As =3.32 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=2.04 As =1.98 As(r)=1.39	Mu=2.04 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=6.28 As =1.98 As(r)=1.39	Mu=0.95 As =1.98 As(r)=1.39
Vu=-10.79		Vu=0.52		Vu=10.28	Vu=-8.63		Vu=-3.35		Vu=7.62

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VG-254/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.11 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-3.01 As =1.98 As(r)=1.39	Mu=-3.01 As =1.98 As(r)=1.39	Mu=-3.01 As =1.98 As(r)=1.39	Mu=-3.01 As =1.98 As(r)=1.39	Mu=-10.59 As =1.98 As(r)=1.39
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.36 As =1.98 As(r)=1.39	Mu=0.87 As =1.98 As(r)=1.39	Mu=0.89 As =1.98 As(r)=1.39	Mu=0.76 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=9.95 As =1.98 As(r)=1.39	Mu=14.33 As =1.98 As(r)=1.39	Mu=3.53 As =1.98 As(r)=1.39	Mu=3.53 As =1.98 As(r)=1.39
Vu=-2.44		Vu=-0.89		Vu=0.99	Vu=-11.41		Vu=2.08		Vu=13.13

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-10.38 As =1.98 As(r)=1.39	Mu=-5.52 As =1.98 As(r)=1.39	Mu=-2.08 As =2.97 As(r)=1.39	Mu=-2.08 As =1.98 As(r)=1.39	Mu=-5.12 As =1.98 As(r)=1.39	Mu=-5.46 As =1.98 As(r)=1.39	Mu=-1.92 As =1.98 As(r)=1.39	Mu=-1.92 As =1.98 As(r)=1.39	Mu=-4.56 As =1.98 As(r)=1.39	Mu=-9.60 As =1.98 As(r)=1.39
Mu=3.46 As =1.98 As(r)=1.39	Mu=2.08 As =1.98 As(r)=1.39	Mu=2.08 As =1.98 As(r)=1.39	Mu=2.08 As =1.98 As(r)=1.39	Mu=2.08 As =1.98 As(r)=1.39	Mu=1.92 As =1.98 As(r)=1.39	Mu=1.92 As =1.98 As(r)=1.39	Mu=1.92 As =1.98 As(r)=1.39	Mu=1.92 As =1.98 As(r)=1.39	Mu=3.20 As =1.98 As(r)=1.39
Vu=-6.27		Vu=-1.07		Vu=5.71	Vu=-6.05		Vu=1.80		Vu=6.49

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-9.75 As =1.98 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-2.29 As =2.51 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-8.72 As =1.98 As(r)=1.39	Mu=-10.60 As =1.98 As(r)=1.39	Mu=-5.57 As =1.98 As(r)=1.39	Mu=-2.50 As =1.98 As(r)=1.39	Mu=-5.28 As =1.98 As(r)=1.39	Mu=-10.23 As =1.98 As(r)=1.39
Mu=3.25 As =1.98 As(r)=1.39	Mu=3.25 As =1.98 As(r)=1.39	Mu=11.44 As =1.98 As(r)=1.39	Mu=3.19 As =1.98 As(r)=1.39	Mu=2.91 As =1.98 As(r)=1.39	Mu=3.53 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=3.41 As =1.98 As(r)=1.39
Vu=-10.74		Vu=-0.43		Vu=10.80	Vu=-7.07		Vu=-0.24		Vu=7.00

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.02 As =1.98 As(r)=1.39	Mu=-2.16 As =1.98 As(r)=1.39	Mu=-2.16 As =2.51 As(r)=1.39	Mu=-2.16 As =1.98 As(r)=1.39	Mu=-9.73 As =1.98 As(r)=1.39	Mu=-9.98 As =1.98 As(r)=1.39	Mu=-2.79 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.26 As =1.98 As(r)=1.39
Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=10.78 As =1.98 As(r)=1.39	Mu=3.24 As =3.32 As(r)=1.39	Mu=3.24 As =1.98 As(r)=1.39	Mu=2.00 As =1.98 As(r)=1.39	Mu=2.00 As =1.98 As(r)=1.39	Mu=5.64 As =1.98 As(r)=1.39	Mu=6.14 As =1.98 As(r)=1.39	Mu=0.80 As =1.98 As(r)=1.39
Vu=-10.67		Vu=0.54		Vu=10.17	Vu=-8.55		Vu=-3.22		Vu=7.64

VG-255/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.07 As =0.50 As(r)=1.39	Mu=-0.46 As =1.98 As(r)=1.39	Mu=-1.61 As =1.98 As(r)=1.39	Mu=-3.31 As =1.98 As(r)=1.39	Mu=-4.44 As =1.98 As(r)=1.39	Mu=-7.35 As =1.98 As(r)=1.39	Mu=-3.74 As =1.98 As(r)=1.39	Mu=-3.74 As =1.98 As(r)=1.39	Mu=-3.74 As =1.98 As(r)=1.39	Mu=-18.69 As =1.98 As(r)=1.47
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.89 As =1.98 As(r)=1.39	Mu=3.74 As =1.98 As(r)=1.39	Mu=8.78 As =1.98 As(r)=1.39	Mu=18.47 As =1.98 As(r)=1.46	Mu=6.23 As =1.98 As(r)=1.39	Mu=6.23 As =1.98 As(r)=1.39
Vu=2.17		Vu=4.17		Vu=5.73	Vu=-15.46		Vu=-1.00		Vu=18.97

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B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-18.45 As =1.98 As(r)=1.45	Mu=-6.86 As =1.98 As(r)=1.39	Mu=-3.69 As =2.97 As(r)=1.39	Mu=-3.69 As =1.98 As(r)=1.39	Mu=-8.84 As =1.98 As(r)=1.39	Mu=-9.34 As =1.98 As(r)=1.39	Mu=-3.48 As =1.98 As(r)=1.39	Mu=-3.48 As =1.98 As(r)=1.39	Mu=-5.80 As =1.98 As(r)=1.39	Mu=-17.41 As =1.98 As(r)=1.39
Mu=6.15 As =1.98 As(r)=1.39	Mu=4.05 As =1.98 As(r)=1.39	Mu=4.05 As =1.98 As(r)=1.39	Mu=3.69 As =1.98 As(r)=1.39	Mu=3.69 As =1.98 As(r)=1.39	Mu=3.48 As =1.98 As(r)=1.39	Mu=3.48 As =1.98 As(r)=1.39	Mu=4.53 As =1.98 As(r)=1.39	Mu=4.53 As =1.98 As(r)=1.39	Mu=5.80 As =1.98 As(r)=1.39
Vu=-13.07		Vu=-4.17		Vu=10.12	Vu=-10.17		Vu=0.77		Vu=13.17

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-18.53 As =1.98 As(r)=1.46	Mu=-3.71 As =1.98 As(r)=1.39	Mu=-3.71 As =2.51 As(r)=1.39	Mu=-3.71 As =1.98 As(r)=1.39	Mu=-16.60 As =1.98 As(r)=1.39	Mu=-16.45 As =1.98 As(r)=1.39	Mu=-6.72 As =1.98 As(r)=1.39	Mu=-3.29 As =1.98 As(r)=1.39	Mu=-6.09 As =1.98 As(r)=1.39	Mu=-15.72 As =1.98 As(r)=1.39
Mu=6.18 As =1.98 As(r)=1.39	Mu=6.18 As =1.98 As(r)=1.39	Mu=16.20 As =1.98 As(r)=1.39	Mu=5.53 As =1.98 As(r)=1.39	Mu=5.53 As =1.98 As(r)=1.39	Mu=5.48 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=5.24 As =1.98 As(r)=1.39
Vu=-16.84		Vu=-0.82		Vu=16.86	Vu=-12.33		Vu=-0.96		Vu=12.27

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-16.79 As =1.98 As(r)=1.39	Mu=-3.91 As =1.98 As(r)=1.39	Mu=-3.91 As =2.51 As(r)=1.39	Mu=-3.91 As =1.98 As(r)=1.39	Mu=-19.57 As =1.98 As(r)=1.55	Mu=-19.52 As =1.98 As(r)=1.54	Mu=-5.58 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.07 As =1.98 As(r)=1.39
Mu=5.60 As =1.98 As(r)=1.39	Mu=5.60 As =1.98 As(r)=1.39	Mu=15.78 As =1.98 As(r)=1.39	Mu=6.52 As =3.32 As(r)=1.39	Mu=6.52 As =1.98 As(r)=1.39	Mu=3.90 As =1.98 As(r)=1.39	Mu=3.90 As =1.98 As(r)=1.39	Mu=9.04 As =1.98 As(r)=1.39	Mu=7.91 As =1.98 As(r)=1.39	Mu=0.74 As =1.98 As(r)=1.39
Vu=-16.48		Vu=0.96		Vu=17.31	Vu=-15.33		Vu=-6.57		Vu=9.46

VG-256/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.13 As =0.50 As(r)=1.39	Mu=-0.65 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-3.84 As =1.98 As(r)=1.39	Mu=-5.08 As =1.98 As(r)=1.39	Mu=-9.26 As =1.98 As(r)=1.39	Mu=-4.11 As =1.98 As(r)=1.39	Mu=-4.11 As =1.98 As(r)=1.39	Mu=-4.11 As =1.98 As(r)=1.39	Mu=-20.54 As =1.98 As(r)=1.63
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=1.02 As =1.98 As(r)=1.39	Mu=4.11 As =1.98 As(r)=1.39	Mu=8.05 As =1.98 As(r)=1.39	Mu=18.43 As =1.98 As(r)=1.45	Mu=6.85 As =1.98 As(r)=1.39	Mu=6.85 As =1.98 As(r)=1.39
Vu=2.46		Vu=4.68		Vu=6.28	Vu=-16.41		Vu=-1.25		Vu=19.89

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-19.36 As =1.98 As(r)=1.53	Mu=-6.94 As =1.98 As(r)=1.39	Mu=-3.87 As =2.97 As(r)=1.39	Mu=-3.87 As =1.98 As(r)=1.39	Mu=-9.34 As =1.98 As(r)=1.39	Mu=-9.44 As =1.98 As(r)=1.39	Mu=-3.55 As =1.98 As(r)=1.39	Mu=-3.55 As =1.98 As(r)=1.39	Mu=-5.84 As =1.98 As(r)=1.39	Mu=-17.74 As =1.98 As(r)=1.40
Mu=6.45 As =1.98 As(r)=1.39	Mu=4.63 As =1.98 As(r)=1.39	Mu=4.63 As =1.98 As(r)=1.39	Mu=3.87 As =1.98 As(r)=1.39	Mu=3.87 As =1.98 As(r)=1.39	Mu=3.55 As =1.98 As(r)=1.39	Mu=3.55 As =1.98 As(r)=1.39	Mu=4.69 As =1.98 As(r)=1.39	Mu=4.69 As =1.98 As(r)=1.39	Mu=5.91 As =1.98 As(r)=1.39
Vu=-13.94		Vu=-0.72		Vu=10.62	Vu=-10.38		Vu=0.78		Vu=13.46

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-18.82 As =1.98 As(r)=1.48	Mu=-3.76 As =1.98 As(r)=1.39	Mu=-3.76 As =2.51 As(r)=1.39	Mu=-3.76 As =1.98 As(r)=1.39	Mu=-16.93 As =1.98 As(r)=1.39	Mu=-16.60 As =1.98 As(r)=1.39	Mu=-6.71 As =1.98 As(r)=1.39	Mu=-3.32 As =1.98 As(r)=1.39	Mu=-6.10 As =1.98 As(r)=1.39	Mu=-15.90 As =1.98 As(r)=1.39
Mu=6.27 As =1.98 As(r)=1.39	Mu=6.27 As =1.98 As(r)=1.39	Mu=16.25 As =1.98 As(r)=1.39	Mu=5.64 As =1.98 As(r)=1.39	Mu=5.64 As =1.98 As(r)=1.39	Mu=5.53 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=5.30 As =1.98 As(r)=1.39
Vu=-17.07		Vu=-0.81		Vu=17.08	Vu=-12.50		Vu=-0.96		Vu=12.45

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-16.97 As =1.98 As(r)=1.39	Mu=-3.96 As =1.98 As(r)=1.39	Mu=-3.96 As =2.51 As(r)=1.39	Mu=-3.96 As =1.98 As(r)=1.39	Mu=-19.82 As =1.98 As(r)=1.57	Mu=-19.63 As =1.98 As(r)=1.55	Mu=-5.55 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.28 As =1.98 As(r)=1.39
Mu=5.66 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=15.87 As =1.98 As(r)=1.39	Mu=6.61 As =3.32 As(r)=1.39	Mu=6.61 As =1.98 As(r)=1.39	Mu=3.93 As =1.98 As(r)=1.39	Mu=3.93 As =1.98 As(r)=1.39	Mu=9.13 As =1.98 As(r)=1.39	Mu=7.88 As =1.98 As(r)=1.39	Mu=0.82 As =1.98 As(r)=1.39
Vu=-16.67		Vu=0.97		Vu=17.51	Vu=-15.49		Vu=-6.59		Vu=9.63

VG-257/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.32 As =0.50 As(r)=1.39	Mu=-0.06 As =1.98 As(r)=1.39	Mu=-0.06 As =1.98 As(r)=1.39	Mu=-0.11 As =1.98 As(r)=1.39	Mu=-0.31 As =1.98 As(r)=1.39	Mu=-3.56 As =1.98 As(r)=1.39	Mu=-2.69 As =1.98 As(r)=1.39	Mu=-2.69 As =1.98 As(r)=1.39	Mu=-2.69 As =1.98 As(r)=1.39	Mu=-12.63 As =1.98 As(r)=1.39
Mu=0.11 As =0.50 As(r)=1.39	Mu=0.11 As =1.98 As(r)=1.39	Mu=0.29 As =1.98 As(r)=1.39	Mu=0.22 As =1.98 As(r)=1.39	Mu=0.10 As =1.98 As(r)=1.39	Mu=2.69 As =1.98 As(r)=1.39	Mu=7.86 As =1.98 As(r)=1.39	Mu=13.13 As =1.98 As(r)=1.39	Mu=4.21 As =1.98 As(r)=1.39	Mu=4.21 As =1.98 As(r)=1.39
Vu=-1.65		Vu=-0.46		Vu=1.68	Vu=-11.70		Vu=1.52		Vu=13.73

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-10.76 As =1.98 As(r)=1.39	Mu=-5.59 As =1.98 As(r)=1.39	Mu=-2.89 As =2.97 As(r)=1.39	Mu=-2.89 As =1.98 As(r)=1.39	Mu=-2.15 As =1.98 As(r)=1.39	Mu=-5.19 As =1.98 As(r)=1.39	Mu=-1.98 As =1.98 As(r)=1.39	Mu=-1.98 As =1.98 As(r)=1.39	Mu=-4.64 As =1.98 As(r)=1.39	Mu=-9.89 As =1.98 As(r)=1.39
Mu=3.59 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=2.15 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39
Vu=-6.54		Vu=-4.58		Vu=0.01	Vu=-6.08		Vu=1.86		Vu=6.70

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-9.88 As =1.98 As(r)=1.39	Mu=-2.28 As =1.98 As(r)=1.39	Mu=-2.28 As =2.51 As(r)=1.39	Mu=-2.28 As =1.98 As(r)=1.39	Mu=-8.97 As =1.98 As(r)=1.39	Mu=-10.57 As =1.98 As(r)=1.39	Mu=-5.49 As =1.98 As(r)=1.39	Mu=-2.40 As =1.98 As(r)=1.39	Mu=-5.27 As =1.98 As(r)=1.39	Mu=-10.31 As =1.98 As(r)=1.39
Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=11.38 As =1.98 As(r)=1.39	Mu=3.03 As =1.98 As(r)=1.39	Mu=2.99 As =1.98 As(r)=1.39	Mu=3.52 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=3.44 As =1.98 As(r)=1.39
Vu=-10.75		Vu=-0.42		Vu=10.86	Vu=-7.13		Vu=-0.23		Vu=7.10

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.03 As =1.98 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-2.17 As =2.51 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-9.88 As =1.98 As(r)=1.39	Mu=-9.87 As =1.98 As(r)=1.39	Mu=-2.70 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.46 As =1.98 As(r)=1.39
Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=10.83 As =1.98 As(r)=1.39	Mu=3.29 As =3.32 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=1.97 As =1.98 As(r)=1.39	Mu=1.97 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=6.00 As =1.98 As(r)=1.39	Mu=0.75 As =1.98 As(r)=1.39
Vu=-10.69		Vu=0.55		Vu=10.24	Vu=-8.54		Vu=-3.17		Vu=7.74

VG-258/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.31 As =0.50 As(r)=1.39	Mu=-0.07 As =1.98 As(r)=1.39	Mu=-0.07 As =1.98 As(r)=1.39	Mu=-0.07 As =1.98 As(r)=1.39	Mu=-0.36 As =1.98 As(r)=1.39	Mu=-2.45 As =1.98 As(r)=1.39	Mu=-2.11 As =1.98 As(r)=1.39	Mu=-2.11 As =1.98 As(r)=1.39	Mu=-2.11 As =1.98 As(r)=1.39	Mu=-10.57 As =1.98 As(r)=1.39
Mu=0.10 As =0.50 As(r)=1.39	Mu=0.10 As =1.98 As(r)=1.39	Mu=0.22 As =1.98 As(r)=1.39	Mu=0.12 As =1.98 As(r)=1.39	Mu=0.12 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=6.45 As =1.98 As(r)=1.39	Mu=9.41 As =1.98 As(r)=1.39	Mu=3.52 As =1.98 As(r)=1.39	Mu=3.52 As =1.98 As(r)=1.39
Vu=-1.61		Vu=-0.10		Vu=1.77	Vu=-9.78		Vu=2.08		Vu=12.48

B=0.12 H=0.40 L=3.96					B=0.12 H=0.40 L=3.95				
Mu=-8.63 As =1.98 As(r)=1.39	Mu=-4.32 As =1.98 As(r)=1.39	Mu=-1.73 As =2.97 As(r)=1.39	Mu=-1.73 As =1.98 As(r)=1.39	Mu=-4.96 As =1.98 As(r)=1.39	Mu=-4.73 As =1.98 As(r)=1.39	Mu=-2.01 As =1.98 As(r)=1.39	Mu=-2.01 As =1.98 As(r)=1.39	Mu=-4.70 As =1.98 As(r)=1.39	Mu=-10.04 As =1.98 As(r)=1.39
Mu=2.88 As =1.98 As(r)=1.39	Mu=1.73 As =1.98 As(r)=1.39	Mu=1.73 As =1.98 As(r)=1.39	Mu=1.73 As =1.98 As(r)=1.39	Mu=1.73 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39
Vu=-5.25		Vu=-2.89		Vu=5.65	Vu=-5.99		Vu=2.02		Vu=6.78

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-10.03 As =1.98 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-2.29 As =2.51 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-8.98 As =1.98 As(r)=1.39	Mu=-10.59 As =1.98 As(r)=1.39	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-2.42 As =1.98 As(r)=1.39	Mu=-5.29 As =1.98 As(r)=1.39	Mu=-10.31 As =1.98 As(r)=1.39
Mu=3.34 As =1.98 As(r)=1.39	Mu=3.34 As =1.98 As(r)=1.39	Mu=11.44 As =1.98 As(r)=1.39	Mu=3.05 As =1.98 As(r)=1.39	Mu=2.99 As =1.98 As(r)=1.39	Mu=3.53 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=3.44 As =1.98 As(r)=1.39
Vu=-10.80		Vu=-0.45		Vu=10.88	Vu=-7.12		Vu=-0.24		Vu=7.08

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.06 As =1.98 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-2.17 As =2.51 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-9.90 As =1.98 As(r)=1.39	Mu=-9.90 As =1.98 As(r)=1.39	Mu=-2.73 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.43 As =1.98 As(r)=1.39
Mu=3.02 As =1.98 As(r)=1.39	Mu=3.02 As =1.98 As(r)=1.39	Mu=10.87 As =1.98 As(r)=1.39	Mu=3.30 As =3.32 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=6.01 As =1.98 As(r)=1.39	Mu=0.75 As =1.98 As(r)=1.39
Vu=-10.71		Vu=0.56		Vu=10.25	Vu=-8.54		Vu=-3.18		Vu=7.72

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VG-259/Piso 2

B=0.12 H=0.40 L=0.75					B=0.12 H=0.40 L=5.20				
Mu=-0.14 As =0.50 As(r)=1.39	Mu=-0.15 As =1.98 As(r)=1.39	Mu=-0.50 As =1.98 As(r)=1.39	Mu=-1.36 As =1.98 As(r)=1.39	Mu=-2.03 As =1.98 As(r)=1.39	Mu=-1.59 As =1.98 As(r)=1.39	Mu=-1.59 As =1.98 As(r)=1.39	Mu=-1.59 As =1.98 As(r)=1.39	Mu=-1.59 As =1.98 As(r)=1.39	Mu=-7.94 As =1.98 As(r)=1.39
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.41 As =1.98 As(r)=1.39	Mu=1.59 As =1.98 As(r)=1.39	Mu=3.59 As =1.98 As(r)=1.39	Mu=5.53 As =1.98 As(r)=1.39	Mu=2.65 As =1.98 As(r)=1.39	Mu=2.65 As =1.98 As(r)=1.39
Vu=-0.25		Vu=1.80		Vu=3.46	Vu=-6.67		Vu=2.34		Vu=10.79

B=0.12 H=0.40 L=3.96					B=0.12 H=0.40 L=3.95				
Mu=-3.65 As =1.98 As(r)=1.39	Mu=-9.22 As =1.98 As(r)=1.39	Mu=-7.56 As =2.97 As(r)=1.39	Mu=-7.56 As =1.98 As(r)=1.39	Mu=-7.56 As =1.98 As(r)=1.39	Mu=-8.17 As =1.98 As(r)=1.39	Mu=-3.67 As =1.98 As(r)=1.39	Mu=-3.67 As =1.98 As(r)=1.39	Mu=-6.02 As =1.98 As(r)=1.39	Mu=-18.33 As =1.98 As(r)=1.44
Mu=1.84 As =1.98 As(r)=1.39	Mu=1.84 As =1.98 As(r)=1.39	Mu=2.07 As =1.98 As(r)=1.39	Mu=2.52 As =1.98 As(r)=1.39	Mu=2.52 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=3.67 As =1.98 As(r)=1.39	Mu=5.21 As =1.98 As(r)=1.39	Mu=5.21 As =1.98 As(r)=1.39	Mu=6.11 As =1.98 As(r)=1.39
Vu=6.92		Vu=-9.64		Vu=9.64	Vu=-10.05		Vu=1.11		Vu=13.86

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-19.39 As =1.98 As(r)=1.53	Mu=-3.88 As =1.98 As(r)=1.39	Mu=-3.88 As =2.51 As(r)=1.39	Mu=-3.88 As =1.98 As(r)=1.39	Mu=-17.08 As =1.98 As(r)=1.39	Mu=-16.73 As =1.98 As(r)=1.39	Mu=-6.79 As =1.98 As(r)=1.39	Mu=-3.35 As =1.98 As(r)=1.39	Mu=-6.17 As =1.98 As(r)=1.39	Mu=-15.98 As =1.98 As(r)=1.39
Mu=6.46 As =1.98 As(r)=1.39	Mu=6.46 As =1.98 As(r)=1.39	Mu=16.47 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=5.58 As =1.98 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39	Mu=5.33 As =1.98 As(r)=1.39
Vu=-17.36		Vu=-0.89		Vu=17.22	Vu=-12.56		Vu=-1.02		Vu=12.46

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-17.13 As =1.98 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39	Mu=-3.98 As =2.51 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39	Mu=-19.92 As =1.98 As(r)=1.58	Mu=-19.75 As =1.98 As(r)=1.56	Mu=-5.63 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.19 As =1.98 As(r)=1.39
Mu=5.71 As =1.98 As(r)=1.39	Mu=5.71 As =1.98 As(r)=1.39	Mu=16.04 As =1.98 As(r)=1.39	Mu=6.64 As =3.32 As(r)=1.39	Mu=6.64 As =1.98 As(r)=1.39	Mu=3.95 As =1.98 As(r)=1.39	Mu=3.95 As =1.98 As(r)=1.39	Mu=9.14 As =1.98 As(r)=1.39	Mu=7.91 As =1.98 As(r)=1.39	Mu=0.74 As =1.98 As(r)=1.39
Vu=-16.79		Vu=1.01		Vu=17.57	Vu=-15.52		Vu=-6.64		Vu=9.57

VG-260/Piso 2

B=0.12 H=0.40 L=3.15					B=0.12 H=0.40 L=3.95				
Mu=-1.92 As =1.98 As(r)=1.39	Mu=-1.41 As =1.98 As(r)=1.39	Mu=-1.41 As =1.98 As(r)=1.39	Mu=-1.41 As =1.98 As(r)=1.39	Mu=-7.03 As =1.98 As(r)=1.39	Mu=-7.57 As =1.98 As(r)=1.39	Mu=-3.62 As =1.98 As(r)=1.39	Mu=-3.62 As =2.82 As(r)=1.39	Mu=-5.80 As =1.98 As(r)=1.39	Mu=-18.12 As =1.98 As(r)=1.43
Mu=1.41 As =1.98 As(r)=1.39	Mu=2.92 As =1.98 As(r)=1.39	Mu=6.47 As =1.98 As(r)=1.39	Mu=2.34 As =1.98 As(r)=1.39	Mu=2.34 As =1.98 As(r)=1.39	Mu=3.62 As =1.98 As(r)=1.39	Mu=3.62 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=6.04 As =1.98 As(r)=1.39
Vu=-7.02		Vu=0.68		Vu=11.39	Vu=-10.17		Vu=1.24		Vu=13.87

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-19.26 As =1.98 As(r)=1.52	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-3.85 As =2.74 As(r)=1.39	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-17.03 As =1.98 As(r)=1.39	Mu=-16.70 As =1.98 As(r)=1.39	Mu=-6.79 As =1.98 As(r)=1.39	Mu=-3.34 As =1.98 As(r)=1.39	Mu=-6.17 As =1.98 As(r)=1.39	Mu=-15.97 As =1.98 As(r)=1.39
Mu=6.42 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39	Mu=16.42 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=5.57 As =1.98 As(r)=1.39	Mu=3.34 As =1.98 As(r)=1.39	Mu=3.34 As =1.98 As(r)=1.39	Mu=3.34 As =1.98 As(r)=1.39	Mu=5.32 As =1.98 As(r)=1.39
Vu=-17.24		Vu=-0.89		Vu=17.16	Vu=-12.53		Vu=-1.03		Vu=12.45

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-17.12 As =1.98 As(r)=1.39	Mu=-3.99 As =1.98 As(r)=1.39	Mu=-3.99 As =2.51 As(r)=1.39	Mu=-3.99 As =1.98 As(r)=1.39	Mu=-19.94 As =1.98 As(r)=1.58	Mu=-19.78 As =1.98 As(r)=1.56	Mu=-5.63 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.28 As =1.98 As(r)=1.39
Mu=5.71 As =1.98 As(r)=1.39	Mu=5.71 As =1.98 As(r)=1.39	Mu=16.04 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=3.96 As =1.98 As(r)=1.39	Mu=3.96 As =1.98 As(r)=1.39	Mu=9.16 As =1.98 As(r)=1.39	Mu=7.92 As =1.98 As(r)=1.39	Mu=0.92 As =1.98 As(r)=1.39
Vu=-16.78		Vu=1.00		Vu=17.59	Vu=-15.55		Vu=-6.65		Vu=9.61

VG-261/Piso 2

B=0.12 H=0.40 L=3.15					B=0.12 H=0.40 L=3.95				
Mu=-9.78 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-2.14 As =1.98 As(r)=1.39	Mu=-1.99 As =1.98 As(r)=1.39	Mu=-1.99 As =2.82 As(r)=1.39	Mu=-4.42 As =1.98 As(r)=1.39	Mu=-9.95 As =1.98 As(r)=1.39
Mu=3.26 As =1.98 As(r)=1.39	Mu=3.26 As =1.98 As(r)=1.39	Mu=7.46 As =1.98 As(r)=1.39	Mu=4.56 As =1.98 As(r)=1.39	Mu=1.96 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39
Vu=-14.92		Vu=-0.82		Vu=7.40	Vu=-4.89		Vu=2.52		Vu=6.97

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-9.96 As =1.98 As(r)=1.39	Mu=-2.28 As =1.98 As(r)=1.39	Mu=-2.28 As =2.74 As(r)=1.39	Mu=-2.28 As =1.98 As(r)=1.39	Mu=-8.94 As =1.98 As(r)=1.39	Mu=-10.60 As =1.98 As(r)=1.39	Mu=-5.53 As =1.98 As(r)=1.39	Mu=-2.45 As =1.98 As(r)=1.39	Mu=-5.30 As =1.98 As(r)=1.39	Mu=-10.30 As =1.98 As(r)=1.39
Mu=3.32 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=11.38 As =1.98 As(r)=1.39	Mu=3.05 As =1.98 As(r)=1.39	Mu=2.98 As =1.98 As(r)=1.39	Mu=3.53 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=3.43 As =1.98 As(r)=1.39
Vu=-10.72		Vu=-0.47		Vu=10.85	Vu=-7.11		Vu=-0.25		Vu=7.06

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.06 As =1.98 As(r)=1.39	Mu=-2.18 As =1.98 As(r)=1.39	Mu=-2.18 As =2.51 As(r)=1.39	Mu=-2.18 As =1.98 As(r)=1.39	Mu=-9.88 As =1.98 As(r)=1.39	Mu=-9.92 As =1.98 As(r)=1.39	Mu=-2.74 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.45 As =1.98 As(r)=1.39
Mu=3.02 As =1.98 As(r)=1.39	Mu=3.02 As =1.98 As(r)=1.39	Mu=10.88 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=6.03 As =1.98 As(r)=1.39	Mu=0.82 As =1.98 As(r)=1.39
Vu=-10.72		Vu=0.56		Vu=10.25	Vu=-8.55		Vu=-3.19		Vu=7.72

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VG-262/Piso 2

B=0.12 H=0.40 L=3.15					B=0.12 H=0.40 L=3.95				
Mu=-9.79 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-1.96 As =1.98 As(r)=1.39	Mu=-2.16 As =1.98 As(r)=1.39	Mu=-1.99 As =1.98 As(r)=1.39	Mu=-1.99 As =2.82 As(r)=1.39	Mu=-4.42 As =1.98 As(r)=1.39	Mu=-9.95 As =1.98 As(r)=1.39
Mu=3.26 As =1.98 As(r)=1.39	Mu=3.26 As =1.98 As(r)=1.39	Mu=7.49 As =1.98 As(r)=1.39	Mu=4.57 As =1.98 As(r)=1.39	Mu=1.96 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39
Vu=-14.91		Vu=-0.83		Vu=7.44	Vu=-4.89		Vu=2.51		Vu=6.97

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-9.95 As =1.98 As(r)=1.39	Mu=-2.27 As =1.98 As(r)=1.39	Mu=-2.27 As =2.74 As(r)=1.39	Mu=-2.27 As =1.98 As(r)=1.39	Mu=-8.94 As =1.98 As(r)=1.39	Mu=-10.59 As =1.98 As(r)=1.39	Mu=-5.52 As =1.98 As(r)=1.39	Mu=-2.44 As =1.98 As(r)=1.39	Mu=-5.29 As =1.98 As(r)=1.39	Mu=-10.30 As =1.98 As(r)=1.39
Mu=3.32 As =1.98 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=11.37 As =1.98 As(r)=1.39	Mu=3.05 As =1.98 As(r)=1.39	Mu=2.98 As =1.98 As(r)=1.39	Mu=3.53 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=2.12 As =1.98 As(r)=1.39	Mu=3.43 As =1.98 As(r)=1.39
Vu=-10.71		Vu=-0.47		Vu=10.85	Vu=-7.11		Vu=-0.25		Vu=7.06

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.04 As =1.98 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-2.17 As =2.51 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-9.85 As =1.98 As(r)=1.39	Mu=-9.89 As =1.98 As(r)=1.39	Mu=-2.73 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.44 As =1.98 As(r)=1.39
Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=10.86 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=5.64 As =1.98 As(r)=1.39	Mu=6.01 As =1.98 As(r)=1.39	Mu=0.79 As =1.98 As(r)=1.39
Vu=-10.71		Vu=0.57		Vu=10.23	Vu=-8.53		Vu=-3.17		Vu=7.70

VG-263/Piso 2

B=0.12 H=0.40 L=3.15					B=0.12 H=0.40 L=3.95				
Mu=-2.23 As =1.98 As(r)=1.39	Mu=-1.43 As =1.98 As(r)=1.39	Mu=-1.43 As =1.98 As(r)=1.39	Mu=-1.43 As =1.98 As(r)=1.39	Mu=-7.14 As =1.98 As(r)=1.39	Mu=-7.62 As =1.98 As(r)=1.39	Mu=-3.62 As =1.98 As(r)=1.39	Mu=-3.62 As =2.82 As(r)=1.39	Mu=-5.80 As =1.98 As(r)=1.39	Mu=-18.12 As =1.98 As(r)=1.43
Mu=1.43 As =1.98 As(r)=1.39	Mu=2.96 As =1.98 As(r)=1.39	Mu=6.59 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39	Mu=2.38 As =1.98 As(r)=1.39	Mu=3.62 As =1.98 As(r)=1.39	Mu=3.62 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=6.04 As =1.98 As(r)=1.39
Vu=-7.51		Vu=0.82		Vu=11.51	Vu=-10.22		Vu=1.26		Vu=13.87

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-19.22 As =1.98 As(r)=1.52	Mu=-3.84 As =1.98 As(r)=1.39	Mu=-3.84 As =2.74 As(r)=1.39	Mu=-3.84 As =1.98 As(r)=1.39	Mu=-17.00 As =1.98 As(r)=1.39	Mu=-16.66 As =1.98 As(r)=1.39	Mu=-6.76 As =1.98 As(r)=1.39	Mu=-3.33 As =1.98 As(r)=1.39	Mu=-6.17 As =1.98 As(r)=1.39	Mu=-15.95 As =1.98 As(r)=1.39
Mu=6.41 As =1.98 As(r)=1.39	Mu=6.41 As =1.98 As(r)=1.39	Mu=16.38 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=5.55 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=5.32 As =1.98 As(r)=1.39
Vu=-17.24		Vu=-0.93		Vu=17.12	Vu=-12.52		Vu=-1.07		Vu=12.42

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-17.05 As =1.98 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =2.51 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-19.85 As =1.98 As(r)=1.57	Mu=-19.68 As =1.98 As(r)=1.55	Mu=-5.59 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.24 As =1.98 As(r)=1.39
Mu=5.68 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=15.99 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39	Mu=3.94 As =1.98 As(r)=1.39	Mu=3.94 As =1.98 As(r)=1.39	Mu=9.10 As =1.98 As(r)=1.39	Mu=7.86 As =1.98 As(r)=1.39	Mu=0.80 As =1.98 As(r)=1.39
Vu=-16.74		Vu=1.04		Vu=17.50	Vu=-15.48		Vu=-6.60		Vu=9.54

VG-264/Piso 2

B=0.12 H=0.40 L=4.77					B=0.12 H=0.40 L=3.96				
Mu=-6.57 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-4.77 As =1.98 As(r)=1.39	Mu=-2.49 As =1.98 As(r)=1.39	Mu=-7.60 As =1.98 As(r)=1.39	Mu=-7.45 As =2.74 As(r)=1.39	Mu=-7.45 As =1.98 As(r)=1.39	Mu=-7.45 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=6.53 As =1.98 As(r)=1.39	Mu=9.72 As =1.98 As(r)=1.39	Mu=4.69 As =1.98 As(r)=1.39	Mu=0.95 As =1.98 As(r)=1.39	Mu=1.52 As =1.98 As(r)=1.39	Mu=1.52 As =1.98 As(r)=1.39	Mu=2.62 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39
Vu=14.63		Vu=0.60		Vu=-10.64	Vu=-9.42		Vu=3.37		Vu=-9.71

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-8.06 As =1.98 As(r)=1.39	Mu=-3.65 As =1.98 As(r)=1.39	Mu=-3.65 As =1.98 As(r)=1.39	Mu=-6.05 As =1.98 As(r)=1.39	Mu=-18.27 As =1.98 As(r)=1.44	Mu=-19.27 As =1.98 As(r)=1.52	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-3.85 As =2.51 As(r)=1.39	Mu=-3.85 As =1.98 As(r)=1.39	Mu=-17.02 As =1.98 As(r)=1.39
Mu=3.65 As =1.98 As(r)=1.39	Mu=3.65 As =1.98 As(r)=1.39	Mu=5.12 As =1.98 As(r)=1.39	Mu=5.12 As =1.98 As(r)=1.39	Mu=6.09 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39	Mu=6.42 As =1.98 As(r)=1.39	Mu=16.42 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39	Mu=5.67 As =1.98 As(r)=1.39
Vu=-9.94		Vu=1.21		Vu=13.77	Vu=-17.28		Vu=-0.92		Vu=17.15

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-16.66 As =1.98 As(r)=1.39	Mu=-6.75 As =1.98 As(r)=1.39	Mu=-3.33 As =1.98 As(r)=1.39	Mu=-6.18 As =1.98 As(r)=1.39	Mu=-15.99 As =1.98 As(r)=1.39	Mu=-17.08 As =1.98 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39	Mu=-3.98 As =2.51 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39	Mu=-19.92 As =1.98 As(r)=1.58
Mu=5.55 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =2.13 As(r)=1.39	Mu=5.33 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=16.00 As =2.43 As(r)=1.39	Mu=6.64 As =1.98 As(r)=1.39	Mu=6.64 As =1.98 As(r)=1.39
Vu=-12.52		Vu=-1.08		Vu=12.45	Vu=-16.77		Vu=1.04		Vu=17.56

B=0.12 H=0.40 L=4.00				
Mu=-19.73 As =1.98 As(r)=1.56	Mu=-5.59 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.37 As =1.98 As(r)=1.39
Mu=3.95 As =1.98 As(r)=1.39	Mu=3.95 As =1.98 As(r)=1.39	Mu=9.14 As =1.98 As(r)=1.39	Mu=7.86 As =1.98 As(r)=1.39	Mu=0.97 As =1.98 As(r)=1.39
Vu=-15.54		Vu=-6.61		Vu=9.61

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VG-265/Piso 2

B=0.12 H=0.40 L=4.79					B=0.12 H=0.40 L=3.96				
Mu=-9.95 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-6.62 As =1.98 As(r)=1.39	Mu=-6.56 As =1.98 As(r)=1.39	Mu=-2.87 As =1.98 As(r)=1.39	Mu=-1.31 As =2.97 As(r)=1.39	Mu=-1.31 As =1.98 As(r)=1.39	Mu=-4.83 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=9.11 As =1.98 As(r)=1.39	Mu=16.05 As =1.98 As(r)=1.39	Mu=5.98 As =1.98 As(r)=1.39	Mu=1.32 As =1.98 As(r)=1.39	Mu=2.19 As =1.98 As(r)=1.39	Mu=1.31 As =1.98 As(r)=1.39	Mu=1.31 As =1.98 As(r)=1.39	Mu=1.31 As =1.98 As(r)=1.39	Mu=1.61 As =1.98 As(r)=1.39
Vu=19.63		Vu=-2.10		Vu=-13.26	Vu=4.58		Vu=2.51		Vu=-5.92

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-4.65 As =1.98 As(r)=1.39	Mu=-2.01 As =1.98 As(r)=1.39	Mu=-2.01 As =1.98 As(r)=1.39	Mu=-4.75 As =1.98 As(r)=1.39	Mu=-10.05 As =1.98 As(r)=1.39	Mu=-9.98 As =1.98 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-2.29 As =2.51 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-8.96 As =1.98 As(r)=1.39
Mu=2.01 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=2.01 As =1.98 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=11.43 As =1.98 As(r)=1.39	Mu=3.06 As =1.98 As(r)=1.39	Mu=2.99 As =1.98 As(r)=1.39
Vu=-5.88		Vu=2.05		Vu=6.75	Vu=-10.79		Vu=-0.47		Vu=10.87

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-10.57 As =1.98 As(r)=1.39	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-2.44 As =1.98 As(r)=1.39	Mu=-5.31 As =1.98 As(r)=1.39	Mu=-10.33 As =1.98 As(r)=1.39	Mu=-9.04 As =1.98 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-2.17 As =2.51 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-9.89 As =1.98 As(r)=1.39
Mu=3.52 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=2.11 As =2.13 As(r)=1.39	Mu=3.44 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=10.86 As =2.43 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39
Vu=-7.11		Vu=-0.26		Vu=7.08	Vu=-10.71		Vu=0.58		Vu=10.25

B=0.12 H=0.40 L=4.00				
Mu=-9.91 As =1.98 As(r)=1.39	Mu=-2.73 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.50 As =1.98 As(r)=1.39
Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=5.65 As =1.98 As(r)=1.39	Mu=6.00 As =1.98 As(r)=1.39	Mu=0.85 As =1.98 As(r)=1.39
Vu=-8.54		Vu=-3.18		Vu=7.72

VG-266/Piso 2

B=0.12 H=0.40 L=4.82					B=0.12 H=0.40 L=3.95				
Mu=-7.21 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-10.51 As =1.98 As(r)=1.39	Mu=-9.24 As =1.98 As(r)=1.39	Mu=-4.14 As =1.98 As(r)=1.39	Mu=-1.85 As =2.74 As(r)=1.39	Mu=-1.85 As =1.98 As(r)=1.39	Mu=-5.53 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=10.70 As =1.98 As(r)=1.39	Mu=16.88 As =1.98 As(r)=1.39	Mu=3.94 As =1.98 As(r)=1.39	Mu=2.10 As =1.98 As(r)=1.39	Mu=3.08 As =1.98 As(r)=1.39	Mu=1.85 As =1.98 As(r)=1.39	Mu=1.85 As =1.98 As(r)=1.39	Mu=1.85 As =1.98 As(r)=1.39	Mu=1.85 As =1.98 As(r)=1.39
Vu=18.33		Vu=-2.87		Vu=-14.68	Vu=6.30		Vu=1.47		Vu=-6.59

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B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-5.18 As =1.98 As(r)=1.39	Mu=-1.98 As =1.98 As(r)=1.39	Mu=-1.98 As =1.98 As(r)=1.39	Mu=-4.70 As =1.98 As(r)=1.39	Mu=-9.91 As =1.98 As(r)=1.39	Mu=-9.88 As =1.98 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-2.29 As =2.51 As(r)=1.39	Mu=-2.29 As =1.98 As(r)=1.39	Mu=-8.99 As =1.98 As(r)=1.39
Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=11.45 As =1.98 As(r)=1.39	Mu=3.04 As =1.98 As(r)=1.39	Mu=3.00 As =1.98 As(r)=1.39
Vu=-5.97		Vu=1.87		Vu=6.65	Vu=-10.78		Vu=-0.46		Vu=10.88

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-10.57 As =1.98 As(r)=1.39	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-2.45 As =1.98 As(r)=1.39	Mu=-5.32 As =1.98 As(r)=1.39	Mu=-10.34 As =1.98 As(r)=1.39	Mu=-9.03 As =1.98 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-2.17 As =2.51 As(r)=1.39	Mu=-2.17 As =1.98 As(r)=1.39	Mu=-9.89 As =1.98 As(r)=1.39
Mu=3.52 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=2.11 As =1.98 As(r)=1.39	Mu=2.11 As =2.43 As(r)=1.39	Mu=3.45 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=10.86 As =2.72 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39	Mu=3.30 As =1.98 As(r)=1.39
Vu=-7.11		Vu=-0.26		Vu=7.07	Vu=-10.71		Vu=0.59		Vu=10.24

B=0.12 H=0.40 L=4.00				
Mu=-9.89 As =1.98 As(r)=1.39	Mu=-2.73 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.49 As =1.98 As(r)=1.39
Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=5.63 As =1.98 As(r)=1.39	Mu=5.99 As =1.98 As(r)=1.39	Mu=0.82 As =1.98 As(r)=1.39
Vu=-8.53		Vu=-3.17		Vu=7.70

VG-267/Piso 2

B=0.12 H=0.40 L=4.87					B=0.12 H=0.40 L=3.95				
Mu=-2.12 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.76 As =1.98 As(r)=1.39	Mu=-21.44 As =1.98 As(r)=1.70	Mu=-18.55 As =1.98 As(r)=1.46	Mu=-5.43 As =1.98 As(r)=1.39	Mu=-3.71 As =3.39 As(r)=1.39	Mu=-3.71 As =1.98 As(r)=1.39	Mu=-9.63 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=10.48 As =1.98 As(r)=1.39	Mu=17.31 As =1.98 As(r)=1.40	Mu=4.29 As =1.98 As(r)=1.39	Mu=4.29 As =1.98 As(r)=1.39	Mu=6.18 As =1.98 As(r)=1.39	Mu=5.71 As =1.98 As(r)=1.39	Mu=5.71 As =1.98 As(r)=1.39	Mu=3.71 As =1.98 As(r)=1.39	Mu=3.71 As =1.98 As(r)=1.39
Vu=11.91		Vu=-3.97		Vu=-20.68	Vu=14.74		Vu=-1.37		Vu=-11.08

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-9.75 As =1.98 As(r)=1.39	Mu=-3.57 As =1.98 As(r)=1.39	Mu=-3.57 As =1.98 As(r)=1.39	Mu=-5.95 As =1.98 As(r)=1.39	Mu=-17.84 As =1.98 As(r)=1.40	Mu=-18.92 As =1.98 As(r)=1.49	Mu=-3.79 As =1.98 As(r)=1.39	Mu=-3.79 As =2.74 As(r)=1.39	Mu=-3.79 As =1.98 As(r)=1.39	Mu=-17.07 As =1.98 As(r)=1.39
Mu=3.57 As =1.98 As(r)=1.39	Mu=3.57 As =1.98 As(r)=1.39	Mu=4.64 As =1.98 As(r)=1.39	Mu=4.64 As =1.98 As(r)=1.39	Mu=5.95 As =1.98 As(r)=1.39	Mu=6.31 As =1.98 As(r)=1.39	Mu=6.31 As =1.98 As(r)=1.39	Mu=16.43 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39
Vu=-10.49		Vu=-0.91		Vu=13.45	Vu=-17.20		Vu=-0.93		Vu=17.15

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B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-16.63 As =1.98 As(r)=1.39	Mu=-6.74 As =1.98 As(r)=1.39	Mu=-3.33 As =1.98 As(r)=1.39	Mu=-6.21 As =1.98 As(r)=1.39	Mu=-16.01 As =1.98 As(r)=1.39	Mu=-17.05 As =1.98 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39	Mu=-3.98 As =2.51 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39	Mu=-19.90 As =1.98 As(r)=1.57
Mu=5.54 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =2.13 As(r)=1.39	Mu=5.34 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=16.00 As =2.43 As(r)=1.39	Mu=6.63 As =1.98 As(r)=1.39	Mu=6.63 As =1.98 As(r)=1.39
Vu=-12.51		Vu=-1.12		Vu=12.44	Vu=-16.76		Vu=1.09		Vu=17.52

B=0.12 H=0.40 L=4.00				
Mu=-19.68 As =1.98 As(r)=1.56	Mu=-5.59 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.31 As =1.98 As(r)=1.39
Mu=3.94 As =1.98 As(r)=1.39	Mu=3.94 As =1.98 As(r)=1.39	Mu=9.10 As =1.98 As(r)=1.39	Mu=7.83 As =2.13 As(r)=1.39	Mu=0.85 As =1.98 As(r)=1.39
Vu=-15.49		Vu=-6.59		Vu=9.54

VG-268/Piso 2

B=0.12 H=0.40 L=4.40					B=0.12 H=0.40 L=5.36				
Mu=-0.63 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-4.10 As =1.98 As(r)=1.39	Mu=-20.52 As =1.98 As(r)=1.62	Mu=-19.51 As =1.98 As(r)=1.54	Mu=-3.90 As =1.98 As(r)=1.39	Mu=-3.90 As =2.74 As(r)=1.39	Mu=-3.90 As =1.98 As(r)=1.39	Mu=-13.62 As =1.98 As(r)=1.39
Mu=0.08 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=4.10 As =1.98 As(r)=1.39	Mu=4.10 As =2.72 As(r)=1.39	Mu=4.10 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=6.50 As =1.98 As(r)=1.39	Mu=13.66 As =1.98 As(r)=1.39	Mu=4.54 As =1.98 As(r)=1.39	Mu=4.54 As =1.98 As(r)=1.39
Vu=-5.69		Vu=1.86		Vu=17.16	Vu=15.62		Vu=-0.62		Vu=-15.96

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-14.83 As =1.98 As(r)=1.39	Mu=-4.50 As =1.98 As(r)=1.39	Mu=-2.97 As =2.51 As(r)=1.39	Mu=-2.97 As =1.98 As(r)=1.39	Mu=-9.73 As =1.98 As(r)=1.39	Mu=-9.95 As =1.98 As(r)=1.39	Mu=-3.54 As =1.98 As(r)=1.39	Mu=-3.54 As =1.98 As(r)=1.39	Mu=-5.97 As =1.98 As(r)=1.39	Mu=-17.71 As =1.98 As(r)=1.39
Mu=4.94 As =1.98 As(r)=1.39	Mu=4.94 As =1.98 As(r)=1.39	Mu=5.03 As =1.98 As(r)=1.39	Mu=3.24 As =3.71 As(r)=1.39	Mu=3.24 As =1.98 As(r)=1.39	Mu=3.54 As =1.98 As(r)=1.39	Mu=3.54 As =1.98 As(r)=1.39	Mu=4.45 As =1.98 As(r)=1.39	Mu=4.45 As =1.98 As(r)=1.39	Mu=5.90 As =1.98 As(r)=1.39
Vu=-11.74		Vu=-3.30		Vu=10.81	Vu=-10.45		Vu=-0.96		Vu=13.29

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-18.77 As =1.98 As(r)=1.48	Mu=-3.75 As =1.98 As(r)=1.39	Mu=-3.75 As =2.51 As(r)=1.39	Mu=-3.75 As =1.98 As(r)=1.39	Mu=-16.97 As =1.98 As(r)=1.39	Mu=-16.64 As =1.98 As(r)=1.39	Mu=-6.75 As =1.98 As(r)=1.39	Mu=-3.33 As =1.98 As(r)=1.39	Mu=-6.20 As =1.98 As(r)=1.39	Mu=-16.00 As =1.98 As(r)=1.39
Mu=6.26 As =1.98 As(r)=1.39	Mu=6.26 As =1.98 As(r)=1.39	Mu=16.43 As =2.13 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=5.55 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=5.33 As =1.98 As(r)=1.39
Vu=-17.11		Vu=-0.92		Vu=17.09	Vu=-12.50		Vu=-1.14		Vu=12.44

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-17.06 As =1.98 As(r)=1.39	Mu=-3.99 As =1.98 As(r)=1.39	Mu=-3.99 As =2.51 As(r)=1.39	Mu=-3.99 As =1.98 As(r)=1.39	Mu=-19.94 As =1.98 As(r)=1.58	Mu=-19.72 As =1.98 As(r)=1.56	Mu=-5.57 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.45 As =1.98 As(r)=1.39
Mu=5.69 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=16.05 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=3.94 As =1.98 As(r)=1.39	Mu=3.94 As =1.98 As(r)=1.39	Mu=9.15 As =1.98 As(r)=1.39	Mu=7.84 As =1.98 As(r)=1.39	Mu=1.03 As =1.98 As(r)=1.39
Vu=-16.79					Vu=-15.55				
Vu=1.08					Vu=-6.60				
Vu=17.57					Vu=9.62				

VG-269/Piso 2

B=0.12 H=0.40 L=4.40					B=0.12 H=0.40 L=5.34				
Mu=-2.36 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-2.83 As =1.98 As(r)=1.39	Mu=-11.09 As =1.98 As(r)=1.39	Mu=-9.31 As =1.98 As(r)=1.39	Mu=-1.86 As =1.98 As(r)=1.39	Mu=-1.86 As =2.93 As(r)=1.39	Mu=-1.86 As =1.98 As(r)=1.39	Mu=-8.70 As =1.98 As(r)=1.39
Mu=0.00 As =1.98 As(r)=1.39	Mu=4.83 As =1.98 As(r)=1.39	Mu=6.00 As =1.98 As(r)=1.39	Mu=2.22 As =3.02 As(r)=1.39	Mu=2.22 As =1.98 As(r)=1.39	Mu=3.10 As =1.98 As(r)=1.39	Mu=3.10 As =1.98 As(r)=1.39	Mu=8.17 As =1.98 As(r)=1.39	Mu=2.90 As =1.98 As(r)=1.39	Mu=2.90 As =1.98 As(r)=1.39
Vu=-8.70					Vu=10.03				
Vu=2.60					Vu=1.05				
Vu=9.35					Vu=-10.96				

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-8.47 As =1.98 As(r)=1.39	Mu=-3.73 As =1.98 As(r)=1.39	Mu=-1.69 As =2.51 As(r)=1.39	Mu=-1.69 As =1.98 As(r)=1.39	Mu=-5.60 As =1.98 As(r)=1.39	Mu=-5.76 As =1.98 As(r)=1.39	Mu=-1.95 As =1.98 As(r)=1.39	Mu=-1.95 As =1.98 As(r)=1.39	Mu=-4.72 As =1.98 As(r)=1.39	Mu=-9.73 As =1.98 As(r)=1.39
Mu=2.82 As =1.98 As(r)=1.39	Mu=1.69 As =1.98 As(r)=1.39	Mu=1.69 As =1.98 As(r)=1.39	Mu=1.69 As =3.61 As(r)=1.39	Mu=1.87 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39	Mu=3.24 As =1.98 As(r)=1.39
Vu=-6.20					Vu=-6.00				
Vu=-0.48					Vu=1.72				
Vu=6.21					Vu=6.46				

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-9.71 As =1.98 As(r)=1.39	Mu=-2.30 As =1.98 As(r)=1.39	Mu=-2.30 As =2.51 As(r)=1.39	Mu=-2.30 As =1.98 As(r)=1.39	Mu=-8.84 As =1.98 As(r)=1.39	Mu=-10.66 As =1.98 As(r)=1.39	Mu=-5.58 As =1.98 As(r)=1.39	Mu=-2.47 As =1.98 As(r)=1.39	Mu=-5.28 As =1.98 As(r)=1.39	Mu=-10.26 As =1.98 As(r)=1.39
Mu=3.24 As =1.98 As(r)=1.39	Mu=3.24 As =1.98 As(r)=1.39	Mu=11.49 As =2.13 As(r)=1.39	Mu=3.12 As =1.98 As(r)=1.39	Mu=2.95 As =1.98 As(r)=1.39	Mu=3.55 As =1.98 As(r)=1.39	Mu=2.13 As =1.98 As(r)=1.39	Mu=2.13 As =2.13 As(r)=1.39	Mu=2.13 As =1.98 As(r)=1.39	Mu=3.42 As =1.98 As(r)=1.39
Vu=-10.76					Vu=-7.12				
Vu=-0.45					Vu=-0.30				
Vu=10.83					Vu=7.03				

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.03 As =1.98 As(r)=1.39	Mu=-2.18 As =1.98 As(r)=1.39	Mu=-2.18 As =2.51 As(r)=1.39	Mu=-2.18 As =1.98 As(r)=1.39	Mu=-9.87 As =1.98 As(r)=1.39	Mu=-9.88 As =1.98 As(r)=1.39	Mu=-2.71 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.55 As =1.98 As(r)=1.39
Mu=3.01 As =1.98 As(r)=1.39	Mu=3.01 As =1.98 As(r)=1.39	Mu=10.91 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=1.98 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=5.98 As =1.98 As(r)=1.39	Mu=0.88 As =1.98 As(r)=1.39
Vu=-10.73					Vu=-8.54				
Vu=0.60					Vu=-3.16				
Vu=10.26					Vu=7.73				

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VG-270/Piso 2

B=0.12 H=0.40 L=4.40					B=0.12 H=0.40 L=5.32				
Mu=-9.85 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-2.75 As =1.98 As(r)=1.39	Mu=-12.39 As =1.98 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-2.48 As =2.93 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-6.94 As =1.98 As(r)=1.39
Mu=3.28 As =1.98 As(r)=1.39	Mu=3.28 As =1.98 As(r)=1.39	Mu=7.80 As =1.98 As(r)=1.39	Mu=5.61 As =3.02 As(r)=1.39	Mu=1.97 As =1.98 As(r)=1.39	Mu=4.13 As =1.98 As(r)=1.39	Mu=4.13 As =1.98 As(r)=1.39	Mu=8.63 As =1.98 As(r)=1.39	Mu=2.77 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39
Vu=9.42		Vu=2.27		Vu=-9.75	Vu=-11.94		Vu=-0.82		Vu=10.12

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-5.50 As =1.98 As(r)=1.39	Mu=-1.99 As =1.98 As(r)=1.39	Mu=-1.99 As =2.51 As(r)=1.39	Mu=-4.52 As =1.98 As(r)=1.39	Mu=-9.96 As =1.98 As(r)=1.39	Mu=-9.74 As =1.98 As(r)=1.39	Mu=-4.77 As =1.98 As(r)=1.39	Mu=-1.95 As =1.98 As(r)=1.39	Mu=-1.95 As =1.98 As(r)=1.39	Mu=-5.81 As =1.98 As(r)=1.39
Mu=1.99 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=1.99 As =3.86 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=3.25 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39	Mu=1.95 As =2.13 As(r)=1.39	Mu=1.95 As =1.98 As(r)=1.39
Vu=6.21		Vu=-0.92		Vu=-6.98	Vu=6.41		Vu=1.72		Vu=-5.98

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-8.84 As =1.98 As(r)=1.39	Mu=-2.32 As =1.98 As(r)=1.39	Mu=-2.32 As =2.51 As(r)=1.39	Mu=-2.32 As =1.98 As(r)=1.39	Mu=-9.76 As =1.98 As(r)=1.39	Mu=-10.15 As =1.98 As(r)=1.39	Mu=-5.23 As =1.98 As(r)=1.39	Mu=-2.53 As =1.98 As(r)=1.39	Mu=-5.71 As =1.98 As(r)=1.39	Mu=-10.80 As =1.98 As(r)=1.39
Mu=2.95 As =1.98 As(r)=1.39	Mu=3.18 As =1.98 As(r)=1.39	Mu=11.60 As =2.72 As(r)=1.39	Mu=3.25 As =1.98 As(r)=1.39	Mu=3.25 As =1.98 As(r)=1.39	Mu=3.38 As =1.98 As(r)=1.39	Mu=2.16 As =1.98 As(r)=1.39	Mu=2.16 As =2.13 As(r)=1.39	Mu=2.16 As =1.98 As(r)=1.39	Mu=3.60 As =1.98 As(r)=1.39
Vu=10.86		Vu=-0.47		Vu=-10.81	Vu=6.96		Vu=-0.35		Vu=-7.13

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.83 As =1.98 As(r)=1.39	Mu=-2.18 As =1.98 As(r)=1.39	Mu=-2.18 As =2.51 As(r)=1.39	Mu=-2.18 As =1.98 As(r)=1.39	Mu=-9.01 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-1.97 As =1.98 As(r)=1.39	Mu=-2.69 As =1.98 As(r)=1.39	Mu=-9.84 As =1.98 As(r)=1.39
Mu=3.28 As =1.98 As(r)=1.39	Mu=3.28 As =1.98 As(r)=1.39	Mu=10.90 As =1.98 As(r)=1.39	Mu=3.00 As =1.98 As(r)=1.39	Mu=3.00 As =1.98 As(r)=1.39	Mu=1.97 As =1.98 As(r)=1.39	Mu=5.96 As =1.98 As(r)=1.39	Mu=5.64 As =2.13 As(r)=1.39	Mu=3.28 As =1.98 As(r)=1.39	Mu=3.28 As =1.98 As(r)=1.39
Vu=10.24		Vu=0.61		Vu=-10.73	Vu=7.72		Vu=-3.14		Vu=-8.52

VG-271/Piso 2

B=0.12 H=0.40 L=4.40					B=0.12 H=0.40 L=5.30				
Mu=-4.52 As =1.98 As(r)=1.39	Mu=-3.41 As =1.98 As(r)=1.39	Mu=-3.41 As =1.98 As(r)=1.39	Mu=-3.41 As =1.98 As(r)=1.39	Mu=-17.06 As =1.98 As(r)=1.39	Mu=-13.88 As =1.98 As(r)=1.39	Mu=-4.55 As =1.98 As(r)=1.39	Mu=-4.55 As =3.16 As(r)=1.39	Mu=-4.55 As =1.98 As(r)=1.39	Mu=-22.74 As =1.98 As(r)=1.81
Mu=3.41 As =1.98 As(r)=1.39	Mu=6.57 As =1.98 As(r)=1.39	Mu=11.25 As =1.98 As(r)=1.39	Mu=5.69 As =3.02 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=4.63 As =1.98 As(r)=1.39	Mu=4.63 As =1.98 As(r)=1.39	Mu=14.19 As =1.98 As(r)=1.39	Mu=7.58 As =1.98 As(r)=1.39	Mu=7.58 As =1.98 As(r)=1.39
Vu=-12.19		Vu=2.24		Vu=15.39	Vu=15.98		Vu=-3.66		Vu=-19.33

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B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-18.53 As =1.98 As(r)=1.46	Mu=-5.78 As =1.98 As(r)=1.39	Mu=-3.71 As =2.29 As(r)=1.39	Mu=-3.71 As =1.98 As(r)=1.39	Mu=-9.84 As =1.98 As(r)=1.39	Mu=-10.32 As =1.98 As(r)=1.39	Mu=-3.61 As =1.98 As(r)=1.39	Mu=-3.61 As =1.98 As(r)=1.39	Mu=-6.20 As =1.98 As(r)=1.39	Mu=-18.03 As =1.98 As(r)=1.42
Mu=6.18 As =1.98 As(r)=1.39	Mu=5.42 As =1.98 As(r)=1.39	Mu=5.42 As =1.98 As(r)=1.39	Mu=3.71 As =3.96 As(r)=1.39	Mu=3.71 As =1.98 As(r)=1.39	Mu=3.61 As =1.98 As(r)=1.39	Mu=3.61 As =1.98 As(r)=1.39	Mu=4.46 As =1.98 As(r)=1.39	Mu=4.46 As =2.72 As(r)=1.39	Mu=6.01 As =1.98 As(r)=1.39
Vu=-14.42		Vu=-4.07		Vu=11.09		Vu=-10.63		Vu=-1.06	
								Vu=13.37	

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-19.33 As =1.98 As(r)=1.53	Mu=-3.87 As =1.98 As(r)=1.39	Mu=-3.87 As =2.51 As(r)=1.39	Mu=-3.87 As =1.98 As(r)=1.39	Mu=-17.33 As =1.98 As(r)=1.39	Mu=-17.17 As =1.98 As(r)=1.39	Mu=-7.14 As =1.98 As(r)=1.39	Mu=-3.43 As =1.98 As(r)=1.39	Mu=-6.08 As =1.98 As(r)=1.39	Mu=-15.69 As =1.98 As(r)=1.39
Mu=6.44 As =1.98 As(r)=1.39	Mu=6.44 As =1.98 As(r)=1.39	Mu=16.94 As =3.02 As(r)=1.39	Mu=5.78 As =1.98 As(r)=1.39	Mu=5.78 As =1.98 As(r)=1.39	Mu=5.72 As =1.98 As(r)=1.39	Mu=3.43 As =1.98 As(r)=1.39	Mu=3.43 As =2.13 As(r)=1.39	Mu=3.43 As =1.98 As(r)=1.39	Mu=5.23 As =1.98 As(r)=1.39
Vu=-17.62		Vu=-0.98		Vu=17.49		Vu=-12.64		Vu=-1.35	
								Vu=12.24	

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-16.97 As =1.98 As(r)=1.39	Mu=-3.96 As =1.98 As(r)=1.39	Mu=-3.96 As =2.51 As(r)=1.39	Mu=-3.96 As =1.98 As(r)=1.39	Mu=-19.79 As =1.98 As(r)=1.56	Mu=-19.57 As =1.98 As(r)=1.55	Mu=-5.52 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.40 As =1.98 As(r)=1.39
Mu=5.66 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=15.99 As =1.98 As(r)=1.39	Mu=6.60 As =1.98 As(r)=1.39	Mu=6.60 As =1.98 As(r)=1.39	Mu=3.91 As =1.98 As(r)=1.39	Mu=3.91 As =1.98 As(r)=1.39	Mu=9.08 As =2.72 As(r)=1.39	Mu=7.77 As =1.98 As(r)=1.39	Mu=0.90 As =1.98 As(r)=1.39
Vu=-16.74		Vu=1.13		Vu=17.46		Vu=-15.45		Vu=-6.52	
								Vu=9.54	

VG-272/Piso 2

B=0.12 H=0.40 L=4.40					B=0.12 H=0.40 L=5.27				
Mu=-4.25 As =1.98 As(r)=1.39	Mu=-4.17 As =1.98 As(r)=1.39	Mu=-4.17 As =1.98 As(r)=1.39	Mu=-5.51 As =1.98 As(r)=1.39	Mu=-20.87 As =1.98 As(r)=1.65	Mu=-23.89 As =1.98 As(r)=1.91	Mu=-4.78 As =1.98 As(r)=1.39	Mu=-4.78 As =3.16 As(r)=1.39	Mu=-4.78 As =1.98 As(r)=1.39	Mu=-11.78 As =1.98 As(r)=1.39
Mu=4.17 As =1.98 As(r)=1.39	Mu=5.90 As =1.98 As(r)=1.39	Mu=8.07 As =1.98 As(r)=1.39	Mu=6.96 As =3.32 As(r)=1.39	Mu=6.96 As =1.98 As(r)=1.39	Mu=7.96 As =1.98 As(r)=1.39	Mu=7.96 As =1.98 As(r)=1.39	Mu=14.36 As =1.98 As(r)=1.39	Mu=4.78 As =1.98 As(r)=1.39	Mu=4.78 As =1.98 As(r)=1.39
Vu=-8.89		Vu=3.37		Vu=16.22		Vu=19.09		Vu=-0.89	
								Vu=-15.73	

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=3.95				
Mu=-13.27 As =1.98 As(r)=1.39	Mu=-2.65 As =1.98 As(r)=1.39	Mu=-2.65 As =2.51 As(r)=1.39	Mu=-2.65 As =1.98 As(r)=1.39	Mu=-9.95 As =1.98 As(r)=1.39	Mu=-10.22 As =1.98 As(r)=1.39	Mu=-3.74 As =1.98 As(r)=1.39	Mu=-3.74 As =1.98 As(r)=1.39	Mu=-6.41 As =1.98 As(r)=1.39	Mu=-18.70 As =1.98 As(r)=1.47
Mu=4.42 As =1.98 As(r)=1.39	Mu=4.42 As =1.98 As(r)=1.39	Mu=7.00 As =1.98 As(r)=1.39	Mu=3.32 As =3.96 As(r)=1.39	Mu=3.32 As =1.98 As(r)=1.39	Mu=3.74 As =1.98 As(r)=1.39	Mu=3.74 As =1.98 As(r)=1.39	Mu=4.66 As =1.98 As(r)=1.39	Mu=4.66 As =3.02 As(r)=1.39	Mu=6.23 As =1.98 As(r)=1.39
Vu=-12.16		Vu=-3.17		Vu=11.79		Vu=-10.79		Vu=-0.98	
								Vu=13.86	

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-20.37 As =1.98 As(r)=1.61	Mu=-4.07 As =1.98 As(r)=1.39	Mu=-4.07 As =2.51 As(r)=1.39	Mu=-4.07 As =1.98 As(r)=1.39	Mu=-18.21 As =1.98 As(r)=1.43	Mu=-17.05 As =1.98 As(r)=1.39	Mu=-6.97 As =1.98 As(r)=1.39	Mu=-3.41 As =1.98 As(r)=1.39	Mu=-6.23 As =1.98 As(r)=1.39	Mu=-16.01 As =1.98 As(r)=1.39
Mu=6.79 As =1.98 As(r)=1.39	Mu=6.79 As =1.98 As(r)=1.39	Mu=17.52 As =3.02 As(r)=1.39	Mu=6.07 As =1.98 As(r)=1.39	Mu=6.07 As =1.98 As(r)=1.39	Mu=5.68 As =1.98 As(r)=1.39	Mu=3.41 As =1.98 As(r)=1.39	Mu=3.41 As =2.43 As(r)=1.39	Mu=3.41 As =1.98 As(r)=1.39	Mu=5.34 As =1.98 As(r)=1.39
Vu=-18.20		Vu=-1.00		Vu=17.99	Vu=-12.73		Vu=-1.27		Vu=12.42

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-17.08 As =1.98 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-3.97 As =2.51 As(r)=1.39	Mu=-3.97 As =1.98 As(r)=1.39	Mu=-19.85 As =1.98 As(r)=1.57	Mu=-19.62 As =1.98 As(r)=1.55	Mu=-5.55 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.49 As =1.98 As(r)=1.39
Mu=5.69 As =1.98 As(r)=1.39	Mu=5.69 As =1.98 As(r)=1.39	Mu=15.81 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39	Mu=6.62 As =1.98 As(r)=1.39	Mu=3.92 As =1.98 As(r)=1.39	Mu=3.92 As =1.98 As(r)=1.39	Mu=9.07 As =2.72 As(r)=1.39	Mu=7.78 As =1.98 As(r)=1.39	Mu=1.11 As =1.98 As(r)=1.39
Vu=-16.72		Vu=1.11		Vu=17.42	Vu=-15.47		Vu=-6.54		Vu=9.55

VG-273/Piso 2

B=0.12 H=0.40 L=3.13					B=0.12 H=0.40 L=5.25				
Mu=-0.12 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.05 As =1.98 As(r)=1.39	Mu=-7.65 As =1.98 As(r)=1.39	Mu=-15.24 As =1.98 As(r)=1.39	Mu=-18.89 As =1.98 As(r)=1.49	Mu=-3.93 As =1.98 As(r)=1.39	Mu=-3.78 As =2.55 As(r)=1.39	Mu=-3.78 As =1.98 As(r)=1.39	Mu=-3.78 As =1.98 As(r)=1.39
Mu=3.56 As =1.98 As(r)=1.39	Mu=3.35 As =1.98 As(r)=1.39	Mu=0.90 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=3.05 As =1.98 As(r)=1.39	Mu=6.30 As =1.98 As(r)=1.39	Mu=6.30 As =1.98 As(r)=1.39	Mu=9.08 As =1.98 As(r)=1.39	Mu=6.11 As =1.98 As(r)=1.39	Mu=3.78 As =1.98 As(r)=1.39
Vu=-3.28		Vu=5.66		Vu=11.11	Vu=14.45		Vu=2.71		Vu=-9.68

B=0.12 H=0.40 L=4.09					B=0.12 H=0.40 L=3.95				
Mu=-4.55 As =1.98 As(r)=1.39	Mu=-1.11 As =1.98 As(r)=1.39	Mu=-1.11 As =2.51 As(r)=1.39	Mu=-1.11 As =1.98 As(r)=1.39	Mu=-5.53 As =1.98 As(r)=1.39	Mu=-5.13 As =1.98 As(r)=1.39	Mu=-2.04 As =1.98 As(r)=1.39	Mu=-2.04 As =1.98 As(r)=1.39	Mu=-4.93 As =1.98 As(r)=1.39	Mu=-10.21 As =1.98 As(r)=1.39
Mu=1.52 As =1.98 As(r)=1.39	Mu=1.52 As =1.98 As(r)=1.39	Mu=3.59 As =1.98 As(r)=1.39	Mu=1.84 As =1.98 As(r)=1.39	Mu=1.84 As =1.98 As(r)=1.39	Mu=2.04 As =1.98 As(r)=1.39	Mu=2.04 As =1.98 As(r)=1.39	Mu=2.04 As =1.98 As(r)=1.39	Mu=2.04 As =1.98 As(r)=1.39	Mu=3.40 As =1.98 As(r)=1.39
Vu=-6.12		Vu=0.63		Vu=7.23	Vu=-5.73		Vu=1.86		Vu=6.70

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=3.80				
Mu=-9.55 As =1.98 As(r)=1.39	Mu=-2.23 As =1.98 As(r)=1.39	Mu=-2.23 As =2.51 As(r)=1.39	Mu=-2.23 As =1.98 As(r)=1.39	Mu=-8.59 As =1.98 As(r)=1.39	Mu=-9.80 As =1.98 As(r)=1.39	Mu=-4.99 As =1.98 As(r)=1.39	Mu=-2.34 As =1.98 As(r)=1.39	Mu=-5.61 As =1.98 As(r)=1.39	Mu=-10.86 As =1.98 As(r)=1.39
Mu=3.18 As =1.98 As(r)=1.39	Mu=3.18 As =1.98 As(r)=1.39	Mu=11.13 As =1.98 As(r)=1.39	Mu=3.27 As =1.98 As(r)=1.39	Mu=2.86 As =1.98 As(r)=1.39	Mu=3.27 As =1.98 As(r)=1.39	Mu=2.17 As =1.98 As(r)=1.39	Mu=2.17 As =1.98 As(r)=1.39	Mu=2.17 As =1.98 As(r)=1.39	Mu=3.62 As =1.98 As(r)=1.39
Vu=-10.61		Vu=-0.53		Vu=10.73	Vu=-6.84		Vu=0.40		Vu=7.31

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B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-9.14 As =1.98 As(r)=1.39	Mu=-2.11 As =1.98 As(r)=1.39	Mu=-2.11 As =2.51 As(r)=1.39	Mu=-2.11 As =1.98 As(r)=1.39	Mu=-9.88 As =1.98 As(r)=1.39	Mu=-9.93 As =1.98 As(r)=1.39	Mu=-2.76 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.54 As =1.98 As(r)=1.39
Mu=3.05 As =1.98 As(r)=1.39	Mu=3.05 As =1.98 As(r)=1.39	Mu=10.56 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=3.29 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=1.99 As =1.98 As(r)=1.39	Mu=5.61 As =1.98 As(r)=1.39	Mu=6.00 As =1.98 As(r)=1.39	Mu=0.94 As =1.98 As(r)=1.39
Vu=-10.60		Vu=0.58		Vu=10.15	Vu=-8.54		Vu=-3.17		Vu=7.68

VG-274/Piso 2

B=0.12 H=0.40 L=5.23					B=0.12 H=0.40 L=3.95				
Mu=-15.10 As =1.98 As(r)=1.39	Mu=-3.02 As =1.98 As(r)=1.39	Mu=-3.02 As =2.97 As(r)=1.39	Mu=-3.02 As =1.98 As(r)=1.39	Mu=-3.02 As =1.98 As(r)=1.39	Mu=-3.55 As =1.98 As(r)=1.39	Mu=-1.23 As =1.98 As(r)=1.39	Mu=-1.23 As =2.51 As(r)=1.39	Mu=-1.23 As =2.55 As(r)=1.39	Mu=-6.15 As =1.98 As(r)=1.39
Mu=5.03 As =1.98 As(r)=1.39	Mu=5.03 As =1.98 As(r)=1.39	Mu=6.57 As =1.98 As(r)=1.39	Mu=4.95 As =1.98 As(r)=1.39	Mu=3.02 As =1.98 As(r)=1.39	Mu=1.23 As =1.98 As(r)=1.39	Mu=1.33 As =1.98 As(r)=1.39	Mu=4.12 As =1.98 As(r)=1.39	Mu=2.05 As =1.98 As(r)=1.39	Mu=2.05 As =1.98 As(r)=1.39
Vu=12.66		Vu=2.94		Vu=-8.20	Vu=-6.35		Vu=0.98		Vu=7.60

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-4.98 As =1.98 As(r)=1.39	Mu=-2.00 As =1.98 As(r)=1.39	Mu=-2.00 As =1.98 As(r)=1.39	Mu=-4.64 As =1.98 As(r)=1.39	Mu=-9.99 As =1.98 As(r)=1.39	Mu=-8.53 As =1.98 As(r)=1.39	Mu=-2.00 As =1.98 As(r)=1.39	Mu=-2.00 As =2.74 As(r)=1.39	Mu=-2.00 As =1.98 As(r)=1.39	Mu=-8.01 As =1.98 As(r)=1.39
Mu=2.00 As =1.98 As(r)=1.39	Mu=2.00 As =1.98 As(r)=1.39	Mu=2.00 As =1.98 As(r)=1.39	Mu=2.00 As =1.98 As(r)=1.39	Mu=3.33 As =1.98 As(r)=1.39	Mu=2.84 As =1.98 As(r)=1.39	Mu=2.84 As =1.98 As(r)=1.39	Mu=10.02 As =1.98 As(r)=1.39	Mu=3.17 As =1.98 As(r)=1.39	Mu=2.67 As =1.98 As(r)=1.39
Vu=-5.78		Vu=1.83		Vu=6.78	Vu=-9.87		Vu=-0.70		Vu=10.25

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-8.74 As =1.98 As(r)=1.39	Mu=-4.19 As =1.98 As(r)=1.39	Mu=-2.30 As =1.98 As(r)=1.39	Mu=-5.96 As =1.98 As(r)=1.39	Mu=-11.51 As =1.98 As(r)=1.39	Mu=-9.29 As =1.98 As(r)=1.39	Mu=-2.12 As =1.98 As(r)=1.39	Mu=-2.12 As =2.51 As(r)=1.39	Mu=-2.12 As =1.98 As(r)=1.39	Mu=-9.93 As =1.98 As(r)=1.39
Mu=2.91 As =1.98 As(r)=1.39	Mu=2.30 As =1.98 As(r)=1.39	Mu=2.30 As =1.98 As(r)=1.39	Mu=2.30 As =1.98 As(r)=1.39	Mu=3.84 As =1.98 As(r)=1.39	Mu=3.10 As =1.98 As(r)=1.39	Mu=3.10 As =1.98 As(r)=1.39	Mu=10.62 As =1.98 As(r)=1.39	Mu=3.31 As =1.98 As(r)=1.39	Mu=3.31 As =1.98 As(r)=1.39
Vu=-6.57		Vu=0.74		Vu=7.65	Vu=-10.63		Vu=0.59		Vu=10.14

B=0.12 H=0.40 L=4.00				
Mu=-10.00 As =1.98 As(r)=1.39	Mu=-2.83 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.45 As =1.98 As(r)=1.39
Mu=2.00 As =1.98 As(r)=1.39	Mu=2.00 As =1.98 As(r)=1.39	Mu=5.60 As =1.98 As(r)=1.39	Mu=6.07 As =3.32 As(r)=1.39	Mu=0.94 As =1.98 As(r)=1.39
Vu=-8.53		Vu=-3.21		Vu=7.64

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VG-275/Piso 2

B=0.12 H=0.40 L=3.03					B=0.12 H=0.40 L=3.95				
Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.00 As =1.98 As(r)=1.39	Mu=-6.30 As =1.98 As(r)=1.39	Mu=-8.26 As =1.98 As(r)=1.39	Mu=-2.06 As =1.98 As(r)=1.39	Mu=-2.06 As =2.74 As(r)=1.39	Mu=-2.06 As =1.98 As(r)=1.39	Mu=-10.31 As =1.98 As(r)=1.39
Mu=4.10 As =1.98 As(r)=1.39	Mu=6.23 As =1.98 As(r)=1.39	Mu=5.34 As =1.98 As(r)=1.39	Mu=1.26 As =1.98 As(r)=1.39	Mu=1.26 As =1.98 As(r)=1.39	Mu=2.75 As =1.98 As(r)=1.39	Mu=2.75 As =1.98 As(r)=1.39	Mu=6.65 As =1.98 As(r)=1.39	Mu=3.44 As =1.98 As(r)=1.39	Mu=3.44 As =1.98 As(r)=1.39
Vu=-3.94		Vu=3.59		Vu=9.57	Vu=-10.99		Vu=-1.26		Vu=11.70

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=5.40				
Mu=-8.85 As =1.98 As(r)=1.39	Mu=-3.40 As =1.98 As(r)=1.39	Mu=-3.40 As =1.98 As(r)=1.39	Mu=-5.54 As =1.98 As(r)=1.39	Mu=-16.99 As =1.98 As(r)=1.39	Mu=-16.12 As =1.98 As(r)=1.39	Mu=-3.25 As =1.98 As(r)=1.39	Mu=-3.25 As =2.51 As(r)=1.39	Mu=-3.25 As =1.98 As(r)=1.39	Mu=-16.26 As =1.98 As(r)=1.39
Mu=3.40 As =1.98 As(r)=1.39	Mu=3.40 As =1.98 As(r)=1.39	Mu=4.30 As =1.98 As(r)=1.39	Mu=4.30 As =1.98 As(r)=1.39	Mu=5.66 As =1.98 As(r)=1.39	Mu=5.37 As =1.98 As(r)=1.39	Mu=5.37 As =1.98 As(r)=1.39	Mu=13.90 As =1.98 As(r)=1.39	Mu=5.42 As =1.98 As(r)=1.39	Mu=5.42 As =1.98 As(r)=1.39
Vu=-10.23		Vu=1.40		Vu=12.99	Vu=-15.20		Vu=-1.85		Vu=16.49

B=0.12 H=0.40 L=3.80					B=0.12 H=0.40 L=5.40				
Mu=-13.74 As =1.98 As(r)=1.39	Mu=-4.67 As =1.98 As(r)=1.39	Mu=-3.58 As =1.98 As(r)=1.39	Mu=-7.17 As =1.98 As(r)=1.39	Mu=-17.89 As =1.98 As(r)=1.41	Mu=-17.78 As =1.98 As(r)=1.40	Mu=-4.06 As =1.98 As(r)=1.39	Mu=-4.06 As =2.51 As(r)=1.39	Mu=-4.06 As =1.98 As(r)=1.39	Mu=-20.30 As =1.98 As(r)=1.61
Mu=4.58 As =1.98 As(r)=1.39	Mu=3.58 As =1.98 As(r)=1.39	Mu=3.58 As =1.98 As(r)=1.39	Mu=3.58 As =1.98 As(r)=1.39	Mu=5.96 As =1.98 As(r)=1.39	Mu=5.93 As =1.98 As(r)=1.39	Mu=5.93 As =1.98 As(r)=1.39	Mu=16.34 As =1.98 As(r)=1.39	Mu=6.77 As =1.98 As(r)=1.39	Mu=6.77 As =1.98 As(r)=1.39
Vu=-11.67		Vu=1.86		Vu=13.44	Vu=-16.98		Vu=1.16		Vu=17.50

B=0.12 H=0.40 L=4.00				
Mu=-19.99 As =1.98 As(r)=1.58	Mu=-5.80 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.29 As =1.98 As(r)=1.39
Mu=4.00 As =1.98 As(r)=1.39	Mu=4.00 As =1.98 As(r)=1.39	Mu=9.20 As =1.98 As(r)=1.39	Mu=7.97 As =1.98 As(r)=1.39	Mu=1.04 As =1.98 As(r)=1.39
Vu=-15.59		Vu=-6.77		Vu=9.51

VG-276/Piso 2

B=0.12 H=0.40 L=2.00				
Mu=-0.00 As =0.50 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39
Mu=2.36 As =0.50 As(r)=1.39	Mu=6.88 As =1.98 As(r)=1.39	Mu=9.19 As =1.98 As(r)=1.39	Mu=5.04 As =1.98 As(r)=1.39	Mu=0.70 As =1.98 As(r)=1.39
Vu=-12.84		Vu=2.86		Vu=10.53

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VG-277/Piso 2

B=0.12 H=0.40 L=3.95					B=0.12 H=0.40 L=0.32				
Mu=-3.99 As =1.98 As(r)=1.39	Mu=-2.35 As =1.98 As(r)=1.39	Mu=-2.35 As =2.09 As(r)=1.39	Mu=-3.48 As =1.98 As(r)=1.39	Mu=-11.77 As =1.98 As(r)=1.39	Mu=-10.37 As =1.98 As(r)=1.39	Mu=-8.86 As =1.98 As(r)=1.39	Mu=-6.63 As =1.98 As(r)=1.39	Mu=-3.89 As =1.98 As(r)=1.39	Mu=-2.39 As =1.98 As(r)=1.39
Mu=2.35 As =1.98 As(r)=1.39	Mu=2.35 As =1.98 As(r)=1.39	Mu=4.08 As =1.98 As(r)=1.39	Mu=3.92 As =1.98 As(r)=1.39	Mu=3.92 As =1.98 As(r)=1.39	Mu=2.07 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39
Vu=-4.69		Vu=-1.19		Vu=10.73	Vu=-13.44		Vu=-13.44		Vu=-13.56

VG-278/Piso 2

B=0.12 H=0.40 L=0.32					B=0.12 H=0.40 L=3.80				
Mu=-2.12 As =0.50 As(r)=1.39	Mu=-2.98 As =0.50 As(r)=1.39	Mu=-4.31 As =1.98 As(r)=1.39	Mu=-5.90 As =1.98 As(r)=1.39	Mu=-6.81 As =1.98 As(r)=1.39	Mu=-12.03 As =1.98 As(r)=1.39	Mu=-3.61 As =1.98 As(r)=1.39	Mu=-2.45 As =1.98 As(r)=1.39	Mu=-3.69 As =1.98 As(r)=1.39	Mu=-12.23 As =1.98 As(r)=1.39
Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =0.50 As(r)=1.39	Mu=0.00 As =1.49 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=1.36 As =1.98 As(r)=1.39	Mu=4.01 As =1.98 As(r)=1.39	Mu=2.45 As =1.98 As(r)=1.39	Mu=2.45 As =1.98 As(r)=1.39	Mu=2.45 As =1.98 As(r)=1.39	Mu=4.08 As =1.98 As(r)=1.39
Vu=7.29		Vu=7.69		Vu=7.85	Vu=-10.71		Vu=1.29		Vu=10.76

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-3.55 As =1.98 As(r)=1.39	Mu=-3.55 As =1.98 As(r)=1.39	Mu=-3.55 As =2.74 As(r)=1.39	Mu=-3.55 As =1.98 As(r)=1.39	Mu=-3.55 As =1.98 As(r)=1.39	Mu=-16.06 As =1.98 As(r)=1.39	Mu=-3.86 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.76 As =1.98 As(r)=1.39
Mu=3.55 As =1.98 As(r)=1.39	Mu=4.12 As =1.98 As(r)=1.39	Mu=17.75 As =1.98 As(r)=1.40	Mu=3.55 As =1.98 As(r)=1.39	Mu=3.55 As =1.98 As(r)=1.39	Mu=3.21 As =1.98 As(r)=1.39	Mu=3.21 As =1.98 As(r)=1.39	Mu=9.85 As =1.98 As(r)=1.39	Mu=7.97 As =3.02 As(r)=1.39	Mu=1.09 As =1.98 As(r)=1.39
Vu=14.14		Vu=1.22		Vu=-20.46	Vu=-13.14		Vu=-6.11		Vu=9.98

VG-279/Piso 2

B=0.12 H=0.40 L=1.18				
Mu=-6.95 As =1.98 As(r)=1.39	Mu=-5.33 As =1.98 As(r)=1.39	Mu=-2.64 As =1.98 As(r)=1.39	Mu=-0.65 As =1.98 As(r)=1.39	Mu=-0.00 As =1.49 As(r)=1.39
Mu=1.39 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.72 As =1.98 As(r)=1.39	Mu=1.13 As =1.98 As(r)=1.39	Mu=1.49 As =1.49 As(r)=1.39
Vu=-6.88		Vu=-1.68		Vu=-4.82

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VG-280/Piso 2

B=0.12 H=0.40 L=1.18					B=0.12 H=0.40 L=3.80				
Mu=-0.44 As =0.50 As(r)=1.39	Mu=-2.86 As =1.98 As(r)=1.39	Mu=-4.12 As =1.98 As(r)=1.39	Mu=-6.66 As =1.98 As(r)=1.39	Mu=-8.48 As =1.98 As(r)=1.39	Mu=-12.40 As =1.98 As(r)=1.39	Mu=-4.64 As =1.98 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-2.48 As =1.98 As(r)=1.39	Mu=-5.59 As =1.98 As(r)=1.39
Mu=0.44 As =0.50 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=1.70 As =1.98 As(r)=1.39	Mu=4.13 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39	Mu=2.48 As =1.98 As(r)=1.39
Vu=5.07		Vu=0.93		Vu=6.53	Vu=-10.13		Vu=-1.82		Vu=6.71

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-2.72 As =1.98 As(r)=1.39	Mu=-2.72 As =1.98 As(r)=1.39	Mu=-2.72 As =2.74 As(r)=1.39	Mu=-2.72 As =1.98 As(r)=1.39	Mu=-2.72 As =1.98 As(r)=1.39	Mu=-7.55 As =1.98 As(r)=1.39	Mu=-0.79 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.15 As =1.98 As(r)=1.39
Mu=2.72 As =1.98 As(r)=1.39	Mu=5.08 As =1.98 As(r)=1.39	Mu=13.61 As =1.98 As(r)=1.39	Mu=3.90 As =2.72 As(r)=1.39	Mu=2.72 As =1.98 As(r)=1.39	Mu=1.51 As =1.98 As(r)=1.39	Mu=1.51 As =1.98 As(r)=1.39	Mu=6.77 As =1.98 As(r)=1.39	Mu=5.89 As =1.98 As(r)=1.39	Mu=0.81 As =1.98 As(r)=1.39
Vu=8.29		Vu=0.71		Vu=-13.49	Vu=-8.07		Vu=-2.48		Vu=8.28

VG-281/Piso 2

B=0.12 H=0.40 L=2.12					B=0.12 H=0.40 L=3.80				
Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-2.08 As =1.98 As(r)=1.39	Mu=-6.41 As =1.98 As(r)=1.39	Mu=-10.94 As =1.98 As(r)=1.39	Mu=-15.43 As =1.98 As(r)=1.39	Mu=-5.82 As =1.98 As(r)=1.39	Mu=-3.09 As =1.98 As(r)=1.39	Mu=-3.09 As =1.98 As(r)=1.39	Mu=-3.98 As =1.98 As(r)=1.39
Mu=2.92 As =1.98 As(r)=1.39	Mu=2.39 As =1.98 As(r)=1.39	Mu=0.53 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=2.19 As =1.98 As(r)=1.39	Mu=5.14 As =1.98 As(r)=1.39	Mu=3.09 As =1.98 As(r)=1.39	Mu=3.09 As =1.98 As(r)=1.39	Mu=3.09 As =1.98 As(r)=1.39	Mu=3.09 As =1.98 As(r)=1.39
Vu=2.20		Vu=5.61		Vu=9.41	Vu=-12.27		Vu=-2.17		Vu=6.22

B=0.12 H=0.40 L=5.40					B=0.12 H=0.40 L=4.00				
Mu=-2.54 As =1.98 As(r)=1.39	Mu=-2.54 As =1.98 As(r)=1.39	Mu=-2.54 As =2.74 As(r)=1.39	Mu=-2.54 As =1.98 As(r)=1.39	Mu=-2.54 As =1.98 As(r)=1.39	Mu=-6.43 As =1.98 As(r)=1.39	Mu=-0.36 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-1.74 As =1.98 As(r)=1.39
Mu=2.54 As =1.98 As(r)=1.39	Mu=5.33 As =1.98 As(r)=1.39	Mu=12.70 As =1.98 As(r)=1.39	Mu=3.56 As =1.98 As(r)=1.39	Mu=2.54 As =1.98 As(r)=1.39	Mu=1.29 As =1.98 As(r)=1.39	Mu=1.29 As =1.98 As(r)=1.39	Mu=6.89 As =1.98 As(r)=1.39	Mu=5.36 As =1.98 As(r)=1.39	Mu=0.58 As =1.98 As(r)=1.39
Vu=8.07		Vu=0.89		Vu=-12.32	Vu=-7.87		Vu=-2.07		Vu=8.54

VG-282/Piso 2

B=0.12 H=0.40 L=2.29					B=0.12 H=0.40 L=5.40				
Mu=-1.17 As =1.98 As(r)=1.39	Mu=-1.17 As =1.98 As(r)=1.39	Mu=-1.27 As =1.98 As(r)=1.39	Mu=-3.38 As =1.98 As(r)=1.39	Mu=-5.87 As =1.98 As(r)=1.39	Mu=-2.70 As =1.98 As(r)=1.39	Mu=-2.70 As =1.98 As(r)=1.39	Mu=-2.70 As =2.97 As(r)=1.39	Mu=-2.70 As =1.98 As(r)=1.39	Mu=-2.70 As =1.98 As(r)=1.39
Mu=1.17 As =1.98 As(r)=1.39	Mu=1.17 As =1.98 As(r)=1.39	Mu=1.17 As =1.98 As(r)=1.39	Mu=1.17 As =1.98 As(r)=1.39	Mu=1.96 As =1.98 As(r)=1.39	Mu=2.70 As =1.98 As(r)=1.39	Mu=5.47 As =1.98 As(r)=1.39	Mu=13.50 As =1.98 As(r)=1.39	Mu=2.77 As =3.02 As(r)=1.39	Mu=2.70 As =1.98 As(r)=1.39
Vu=-3.59		Vu=2.47		Vu=6.09	Vu=8.97		Vu=1.25		Vu=-15.80

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B=0.12 H=0.40 L=4.00				
Mu=-11.95 As =1.98 As(r)=1.39	Mu=-2.39 As =1.98 As(r)=1.39	Mu=-2.39 As =1.98 As(r)=1.39	Mu=-2.39 As =1.98 As(r)=1.39	Mu=-3.09 As =1.98 As(r)=1.39
Mu=3.98 As =1.98 As(r)=1.39	Mu=3.98 As =1.98 As(r)=1.39	Mu=9.47 As =1.98 As(r)=1.39	Mu=6.45 As =1.98 As(r)=1.39	Mu=2.39 As =1.98 As(r)=1.39
Vu=-11.89		Vu=-4.68		Vu=10.25

VG-284/Piso 2

B=0.12 H=0.40 L=1.20					B=0.12 H=0.40 L=4.00				
Mu=-0.00 As =1.27 As(r)=1.39	Mu=-0.00 As =1.27 As(r)=1.39	Mu=-1.18 As =1.27 As(r)=1.39	Mu=-7.49 As =1.27 As(r)=1.39	Mu=-12.19 As =1.27 As(r)=1.39	Mu=-11.80 As =1.27 As(r)=1.39	Mu=-2.97 As =1.27 As(r)=1.39	Mu=-2.36 As =1.91 As(r)=1.39	Mu=-2.36 As =1.27 As(r)=1.39	Mu=-2.66 As =1.27 As(r)=1.39
Mu=3.58 As =1.98 As(r)=1.39	Mu=2.29 As =1.98 As(r)=1.39	Mu=0.05 As =1.98 As(r)=1.39	Mu=0.00 As =1.98 As(r)=1.39	Mu=2.44 As =1.98 As(r)=1.39	Mu=3.93 As =1.98 As(r)=1.39	Mu=3.93 As =1.98 As(r)=1.39	Mu=7.93 As =1.98 As(r)=1.39	Mu=6.66 As =2.13 As(r)=1.39	Mu=2.36 As =1.98 As(r)=1.39
Vu=3.84		Vu=7.56		Vu=14.92	Vu=-10.34		Vu=-5.09		Vu=8.69

VG-285/Piso 2

B=0.12 H=0.40 L=2.60				
Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.00 As =1.98 As(r)=1.39	Mu=-0.17 As =1.98 As(r)=1.39	Mu=-1.42 As =1.98 As(r)=1.39
Mu=1.52 As =1.98 As(r)=1.39	Mu=4.02 As =1.98 As(r)=1.39	Mu=6.37 As =1.98 As(r)=1.39	Mu=4.82 As =1.98 As(r)=1.39	Mu=2.35 As =1.98 As(r)=1.39
Vu=-5.06		Vu=-1.85		Vu=5.94

VG-286/Piso 2

B=0.12 H=0.40 L=5.41				
Mu=-8.78 As =1.98 As(r)=1.39	Mu=-2.91 As =1.98 As(r)=1.39	Mu=-2.91 As =2.97 As(r)=1.39	Mu=-2.91 As =1.98 As(r)=1.39	Mu=-14.56 As =1.98 As(r)=1.39
Mu=3.72 As =1.98 As(r)=1.39	Mu=3.72 As =1.98 As(r)=1.39	Mu=3.72 As =1.98 As(r)=1.39	Mu=3.72 As =1.98 As(r)=1.39	Mu=4.85 As =1.98 As(r)=1.39
Vu=17.83		Vu=4.11		Vu=-18.48

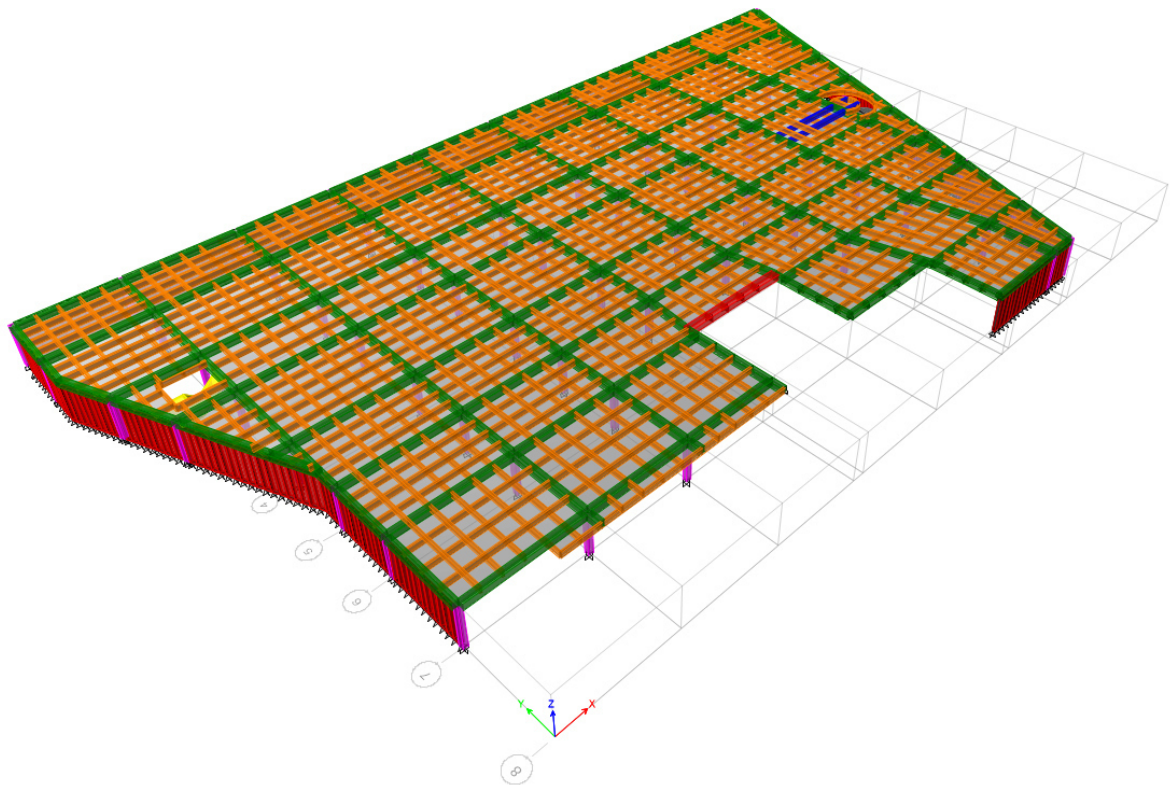
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VG-287/Piso 2

B=0.12 H=0.40 L=8.97				
Mu=-18.92 As =1.98 As(r)=1.49	Mu=-5.08 As =1.98 As(r)=1.39	Mu=-3.78 As =2.09 As(r)=1.39	Mu=-3.78 As =1.98 As(r)=1.39	Mu=-16.77 As =1.98 As(r)=1.39
Mu=6.31 As =1.98 As(r)=1.39	Mu=6.31 As =1.98 As(r)=1.39	Mu=6.31 As =1.98 As(r)=1.39	Mu=6.51 As =1.98 As(r)=1.39	Mu=5.59 As =1.98 As(r)=1.39
Vu=19.65		Vu=-2.22		Vu=-12.68

12.2

DISEÑO Y REVISIÓN DE COLUMNAS



REVISIÒN DE COLUMNAS

SAN JUAN DE CASTILLA
PARQUEADERO

1 Design Data

This chapter provides design data and results.

1.1 Concrete Frame Design

Table 1.1 - Concrete Frame Preferences - ACI 318-11

Item	Value
Multi-Response Design	Step-by-Step - All
Seismic Design Category	D
# Interaction Curves	24
# Interaction Points	11
Minimum Eccentricity	Yes
Phi (Tension)	0.9
Phi (Compression Tied)	0.65
Phi (Compression Spiral)	0.75
Phi (Shear and Torsion)	0.85
Phi (Shear Seismic)	0.6
Phi (Shear Joint)	0.85
Pattern Live Load Factor	0.75
D/C Ratio Limit	1

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-7	1	C 30x30	3000	0.697	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	149.1053	4.6406	-13.864	2600	D.31
Bottom	152.1379	5.7514	3.6878	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.9611	2600	D.31
Bottom	250	51.1716	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	50.9611	2600	D.31
Bottom	250	51.1716	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-7	2	C 30x30	3000	1	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	1577	1.75
Bottom	922	1.02

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	112.5991	30.3779	49.9575	2600	D.02
Bottom	86.7297	-20.1598	-40.3822	0	D.25

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	570.6	42.6642	2600	D.31
Bottom	570.6	42.6642	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	288.66	21.5829	2600	D.31
Bottom	288.66	21.5829	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-6	3	C 30x30	3000	0.595	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	235.1445	-16.3009	-15.3016	2600	D.31
Bottom	238.1772	5.0458	5.7734	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	56.3606	2600	D.31
Bottom	250	56.5294	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	56.3606	2600	D.31
Bottom	250	56.5294	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-6	4	C 30x30	3000	0.78	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	1579	1.75
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	231.3647	-5.6083	72.033	2600	D.02
Bottom	112.1839	4.8922	4.1217	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.5822	2600	D.31
Bottom	250	50.5822	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	60.2222	2600	D.31
Bottom	250	60.4155	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-5	5	C 30x30	3000	0.656	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	179.1756	-11.1808	-13.7195	2600	D.31
Bottom	182.2082	5.2183	4.4167	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	52.5555	2600	D.31
Bottom	250	52.766	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	52.5555	2600	D.31
Bottom	250	52.766	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-5	6	C 30x30	3000	0.914	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	1329	1.48
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	159.0044	6.0356	60.1018	2600	D.02
Bottom	80.2533	5.0139	3.5971	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	650.32	48.6244	2600	D.31
Bottom	650.32	48.6244	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	627.45	46.9148	2600	D.31
Bottom	627.45	46.9148	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-4	7	C 30x30	3000	0.691	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	1085	1.21
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	347.1596	19.2644	48.6945	2600	D.02
Bottom	172.5486	5.1923	4.1826	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.2908	2600	D.31
Bottom	250	55.5014	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.2908	2600	D.31
Bottom	250	55.5014	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-4	8	C 30x30	3000	0.604	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	226.5711	-5.9226	-11.9528	2600	D.31
Bottom	229.6038	5.3955	5.5656	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.9451	2600	D.31
Bottom	250	56.1139	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.9451	2600	D.31
Bottom	250	56.1139	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-3	9	C 30x30	3000	0.667	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	158.9515	-15.8324	5.7799	2600	D.31
Bottom	161.9841	4.8415	3.9265	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.9581	2600	D.31
Bottom	250	54.1686	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.9581	2600	D.31
Bottom	250	54.1686	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A'-3	10	C 30x30	3000	1	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	15.0382	-10.9501	-4.6212	2600	D.31
Bottom	18.0708	5.183	3.2503	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	281.22	21.0265	2600	D.31
Bottom	281.22	21.0265	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	422.93	31.6222	2600	D.31
Bottom	422.93	31.6222	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-2	11	C 30x30	3000	0.648	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	167.649	-5.3755	4.0638	2600	D.31
Bottom	170.6816	5.1938	4.1373	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.6722	2600	D.31
Bottom	250	54.8827	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.6722	2600	D.31
Bottom	250	54.8827	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A'-2	12	C 30x30	3000	0.965	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	68.4319	-6.5584	3.4826	2600	D.31
Bottom	71.4645	5.3309	3.4257	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	18.4245	2600	D.31
Bottom	250	18.4245	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	608.68	45.5114	1560	D.29
Bottom	611.5	45.7219	0	D.29

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-1	13	C 30x30	3000	0.597	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	232.6823	-14.0071	-5.6402	2600	D.31
Bottom	235.7149	4.903	5.7137	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	56.6968	2600	D.31
Bottom	250	56.8656	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	56.6968	2600	D.31
Bottom	250	56.8656	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A'-1	14	C 30x30	3000	0.848	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	89.0751	-11.5022	11.0045	2600	D.31
Bottom	92.1077	4.8467	3.6138	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	506.14	37.8438	2600	D.31
Bottom	506.14	37.8438	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	620.11	46.366	1560	D.31
Bottom	622.93	46.5765	0	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	A-0	15	C 30x30	3000	0.872	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	85.7774	-17.995	-5.7556	2600	D.31
Bottom	88.81	4.7686	3.3028	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	623.56	46.6239	2080	D.29
Bottom	621.96	46.5041	0	D.29

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	18.4633	2600	D.31
Bottom	250	18.4633	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-1	16	C 30x30	3000	0.603	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	226.6175	-14.8782	-9.6454	2600	D.31
Bottom	229.6502	5.0937	5.5667	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	56.1306	2600	D.31
Bottom	250	56.2994	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	56.1306	2600	D.31
Bottom	250	56.2994	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-0	17	C 30x30	3000	0.896	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	79.5565	-18.0661	-8.572	2600	D.31
Bottom	82.5892	4.9863	3.2079	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	621.47	46.4674	1560	D.31
Bottom	623.35	46.6077	520	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	18.0953	2600	D.31
Bottom	250	18.0953	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-1	18	C 30x30	3000	0.615	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	210.4055	-15.0804	-5.4388	2600	D.31
Bottom	213.4381	5.3314	5.1737	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.1014	2600	D.31
Bottom	250	55.3119	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.1014	2600	D.31
Bottom	250	55.3119	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-0	19	C 30x30	3000	0.918	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	73.8218	-18.0633	-5.9078	2600	D.31
Bottom	76.8544	5.2309	3.2977	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	616.05	46.0623	1560	D.31
Bottom	618.87	46.2729	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	18.5636	2600	D.31
Bottom	250	18.5636	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	D-1	20	C 30x30	3000	0.613	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	213.6589	-15.7292	-6.2845	2600	D.31
Bottom	216.6916	5.5976	5.2526	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.3438	2600	D.31
Bottom	250	55.5543	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.3438	2600	D.31
Bottom	250	55.5543	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	D-0	21	C 30x30	3000	0.912	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	75.0099	-18.6517	-6.515	2600	D.31
Bottom	78.0425	5.4991	3.2772	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	617.66	46.1828	1560	D.31
Bottom	620.48	46.3934	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	258.81	15.4813	2600	D.31
Bottom	258.81	15.4813	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	E-1	22	C 30x30	3000	0.613	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	212.7003	-16.452	-6.1189	2600	D.31
Bottom	215.733	5.9437	5.2294	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.3048	2600	D.31
Bottom	250	55.5153	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.3048	2600	D.31
Bottom	250	55.5153	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	E-0	23	C 30x30	3000	0.913	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	74.3854	-19.2754	-6.3929	2600	D.31
Bottom	77.4181	5.8486	3.2813	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	617.65	46.1815	1560	D.31
Bottom	620.46	46.392	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	269.24	16.1051	2600	D.31
Bottom	269.24	16.1051	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-1	24	C 30x30	3000	0.613	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	212.8752	-17.4978	-6.1032	2600	D.31
Bottom	215.9078	6.4318	5.2336	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.3479	2600	D.31
Bottom	250	55.5585	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.3479	2600	D.31
Bottom	250	55.5585	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-0	25	C 30x30	3000	0.912	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	74.1943	-20.1989	-6.358	2600	D.31
Bottom	77.227	6.3407	3.2825	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	618.34	46.2334	1560	D.31
Bottom	621.16	46.4439	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	284.41	17.0126	2600	D.31
Bottom	284.41	17.0126	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-1	26	C 30x30	3000	0.615	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	210.8457	-18.6618	-6.3913	2600	D.31
Bottom	213.8784	6.9889	5.1844	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.2776	2600	D.31
Bottom	250	55.4881	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.2776	2600	D.31
Bottom	250	55.4881	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-0	27	C 30x30	3000	0.917	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	72.9408	-21.1883	-6.6659	2600	D.31
Bottom	75.9734	6.9038	3.2721	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	618.04	46.2108	1560	D.31
Bottom	620.85	46.4214	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	301.05	18.0077	2600	D.31
Bottom	301.05	18.0077	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-1	28	C 30x30	3000	0.606	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	219.2341	-20.0869	-5.3142	2600	D.31
Bottom	222.2667	7.5634	5.3877	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.7706	2600	D.31
Bottom	250	55.949	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.7706	2600	D.31
Bottom	250	55.949	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-0	29	C 30x30	3000	0.895	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	76.0317	-22.609	-5.1572	2600	D.31
Bottom	79.0643	7.4784	3.323	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	622.34	46.5321	1560	D.31
Bottom	623.27	46.6023	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	322.44	19.2868	2600	D.31
Bottom	322.44	19.2868	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	I-1	30	C 30x30	3000	0.686	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	167.2109	-19.2837	-12.9643	2600	D.31
Bottom	170.2435	8.2289	4.1267	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.0603	2600	D.31
Bottom	250	53.2709	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.0603	2600	D.31
Bottom	250	53.2709	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	I-0	31	C 30x30	3000	0.945	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	58.7841	-21.7922	-11.6492	2600	D.31
Bottom	61.8167	8.1443	3.1042	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	614.13	45.9188	1560	D.31
Bottom	616.95	46.1293	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	355.16	26.5554	2600	D.31
Bottom	355.16	26.5554	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-2	32	C 30x30	3000	0.627	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	190.5949	-9.3882	-5.4299	2600	D.31
Bottom	193.6275	7.9239	4.6935	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.8193	2600	D.31
Bottom	250	54.0298	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.8193	2600	D.31
Bottom	250	54.0298	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H'-2	33	C 30x30	3000	0.865	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	89.8738	-24.282	-17.5837	2600	D.31
Bottom	92.9064	4.3486	7.5684	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	623.55	46.6232	2600	D.31
Bottom	623.67	46.632	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	509.95	38.1287	2600	D.31
Bottom	509.95	38.1287	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-3	34	C 30x30	3000	0.688	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	164.8691	-21.3815	-9.5695	2600	D.31
Bottom	167.9017	7.5198	4.0699	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	51.945	2600	D.31
Bottom	250	52.1555	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	51.945	2600	D.31
Bottom	250	52.1555	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H'-3	35	C 30x30	3000	1	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	57.7444	-15.6873	-14.0844	2600	D.31
Bottom	60.777	4.4123	7.6863	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	620.81	46.4179	1560	D.26
Bottom	623.31	46.6051	520	D.26

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	315.99	18.9012	2600	D.25
Bottom	315.99	18.9012	1040	D.25

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-4	36	C 30x30	3000	0.682	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	176.0842	-10.6912	-13.4022	2600	D.31
Bottom	179.1168	7.88	4.3418	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.7621	2600	D.31
Bottom	250	53.9727	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.7621	2600	D.31
Bottom	250	53.9727	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H'-4	37	C 30x30	3000	1	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	18.6074	-10.8478	-19.041	2600	D.31
Bottom	21.64	4.2837	7.5193	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	565.06	42.2497	2600	D.31
Bottom	565.06	42.2497	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	15.6599	2600	D.31
Bottom	250	15.6599	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-6	38	C 30x30	3000	0.625	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	199.1973	-17.4038	-4.8285	2600	D.31
Bottom	202.23	7.0313	4.9021	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.1234	2600	D.31
Bottom	250	54.3339	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.1234	2600	D.31
Bottom	250	54.3339	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-6	39	C 30x30	3000	0.885	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	86.6545	-23.1551	-11.3928	2600	D.31
Bottom	89.6871	3.4966	7.777	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	623.3	46.6045	2600	D.31
Bottom	620.68	46.4085	0	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	535.08	40.0078	2600	D.31
Bottom	535.08	40.0078	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G'-7	40	C 30x30	3000	0.638	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	182.6665	-13.7628	-14.809	2600	D.31
Bottom	185.6992	7.2417	4.5013	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.6347	2600	D.31
Bottom	250	53.8452	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.6347	2600	D.31
Bottom	250	53.8452	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G''-7	41	C 30x30	3000	1	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	56.753	-12.0912	-19.9658	2600	D.31
Bottom	59.7856	3.6971	7.4881	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	619.44	46.3158	1560	D.26
Bottom	623.2	46.5965	0	D.26

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	307.67	18.4033	2600	D.25
Bottom	307.67	18.4033	1040	D.25

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-2	42	C 30x30	3000	0.625	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	199.7259	-4.456	-10.1744	2600	D.31
Bottom	202.7586	5.4449	4.9149	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.1874	2600	D.31
Bottom	250	54.3979	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.1874	2600	D.31
Bottom	250	54.3979	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	B-3	43	C 30x30	3000	0.62	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	204.9467	-17.767	-10.5355	2600	D.31
Bottom	207.9794	4.9964	5.0414	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.4764	2600	D.31
Bottom	250	54.6869	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.4764	2600	D.31
Bottom	250	54.6869	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-2	44	C 30x30	3000	0.643	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	181.9088	-5.1486	-4.5437	2600	D.31
Bottom	184.9414	5.6661	4.483	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	52.9421	2600	D.31
Bottom	250	53.1527	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	52.9421	2600	D.31
Bottom	250	53.1527	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-3	45	C 30x30	3000	0.642	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	182.8518	-17.7076	-4.4323	2600	D.31
Bottom	185.8845	5.2429	4.5058	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	52.9882	2600	D.31
Bottom	250	53.1987	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	52.9882	2600	D.31
Bottom	250	53.1987	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-4	46	C 30x30	3000	0.629	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	198.242	-6.5738	-4.8054	2600	D.31
Bottom	201.2746	5.618	4.8789	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.0067	2600	D.31
Bottom	250	54.2172	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.0067	2600	D.31
Bottom	250	54.2172	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-5	47	C 30x30	3000	0.697	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	149.102	-11.4652	-3.6142	2600	D.31
Bottom	152.1347	5.4532	3.6877	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.4531	2600	D.31
Bottom	250	50.6637	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	50.4531	2600	D.31
Bottom	250	50.6637	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-6	48	C 30x30	3000	0.622	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	202.4015	-16.5353	-4.9062	2600	D.31
Bottom	205.4341	5.2824	4.9797	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.1924	2600	D.31
Bottom	250	54.4029	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.1924	2600	D.31
Bottom	250	54.4029	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	C-7	49	C 30x30	3000	0.696	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	147.0526	1.6386	-3.5646	2600	D.31
Bottom	150.0852	5.8948	3.7042	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.8304	2600	D.31
Bottom	250	51.041	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	50.8304	2600	D.31
Bottom	250	51.041	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	D-2	50	C 30x30	3000	0.638	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	185.7524	-5.6375	-5.7158	2600	D.31
Bottom	188.7851	5.9377	4.5762	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.2253	2600	D.31
Bottom	250	53.4358	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.2253	2600	D.31
Bottom	250	53.4358	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	D-3	51	C 30x30	3000	0.637	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	187.3222	-18.3752	-5.3623	2600	D.31
Bottom	190.3549	5.5084	4.6142	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.3059	2600	D.31
Bottom	250	53.5165	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.3059	2600	D.31
Bottom	250	53.5165	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	D-4	52	C 30x30	3000	0.621	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	206.5813	-7.377	-5.2227	2600	D.31
Bottom	209.614	5.879	5.081	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.622	2600	D.31
Bottom	250	54.8325	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.622	2600	D.31
Bottom	250	54.8325	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	D-5	53	C 30x30	3000	0.694	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	146.6131	-10.517	-6.6775	2600	D.31
Bottom	149.6457	5.7732	3.6274	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.4972	2600	D.31
Bottom	250	50.7077	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	50.4972	2600	D.31
Bottom	250	50.7077	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	E-2	54	C 30x30	3000	0.639	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	184.878	-6.3756	-5.4585	2600	D.31
Bottom	187.9106	6.2832	4.555	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.1789	2600	D.31
Bottom	250	53.3895	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.1789	2600	D.31
Bottom	250	53.3895	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	E-3	55	C 30x30	3000	0.638	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	186.3973	-19.0793	-5.0314	2600	D.31
Bottom	189.4299	5.8552	4.5918	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.2533	2600	D.31
Bottom	250	53.4639	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.2533	2600	D.31
Bottom	250	53.4639	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	E-4	56	C 30x30	3000	0.622	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	205.4256	-8.1054	-4.9795	2600	D.31
Bottom	208.4583	6.2249	5.053	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.5591	2600	D.31
Bottom	250	54.7696	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.5591	2600	D.31
Bottom	250	54.7696	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	E-5	57	C 30x30	3000	0.695	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	146.1025	-11.2796	-4.4075	2600	D.31
Bottom	149.1352	6.118	3.615	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.4653	2600	D.31
Bottom	250	50.6758	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	50.4653	2600	D.31
Bottom	250	50.6758	1040	D.31

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-2	58	C 30x30	3000	0.639	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	184.7445	-7.3673	-5.5725	2600	D.31
Bottom	187.7771	6.7731	4.5517	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.1969	2600	D.31
Bottom	250	53.4074	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.1969	2600	D.31
Bottom	250	53.4074	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-3	59	C 30x30	3000	0.638	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	185.7164	-20.0983	-5.2857	2600	D.31
Bottom	188.7491	6.3441	4.5753	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.2406	2600	D.31
Bottom	250	53.4511	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.2406	2600	D.31
Bottom	250	53.4511	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-4	60	C 30x30	3000	0.626	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	201.8191	-8.7754	-5.3853	2600	D.31
Bottom	204.8518	6.7257	4.9656	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	54.2462	2600	D.31
Bottom	250	54.4567	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	54.2462	2600	D.31
Bottom	250	54.4567	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-5	61	C 30x30	3000	0.686	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f'_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	156.4093	-14.2453	-5.9331	2600	D.31
Bottom	159.442	6.5414	3.8649	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	50.9312	2600	D.31
Bottom	250	51.1417	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	50.9312	2600	D.31
Bottom	250	51.1417	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	F-6	62	C 30x30	3000	0.629	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	192.8934	-16.3418	-5.2965	2600	D.31
Bottom	195.926	6.4708	4.7492	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.9818	2600	D.31
Bottom	250	54.1923	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.9818	2600	D.31
Bottom	250	54.1923	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-2	63	C 30x30	3000	0.64	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	183.982	-8.5361	-5.3734	2600	D.31
Bottom	187.0146	7.3301	4.5332	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.1184	2600	D.31
Bottom	250	53.329	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.1184	2600	D.31
Bottom	250	53.329	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-3	64	C 30x30	3000	0.633	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	193.0961	-21.9961	-4.6806	2600	D.31
Bottom	196.1287	6.8765	4.7542	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	53.6789	2600	D.31
Bottom	250	53.8895	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	53.6789	2600	D.31
Bottom	250	53.8895	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-4	65	C 30x30	3000	0.618	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E_c (MPa)	f_c (MPa)	Lt.Wt Factor (Unitless)	f_y (MPa)	f_{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Rebar Area mm^2	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for $P_u - M_{u2} - M_{u3}$ Interaction

Column End	Design P_u kN	Design M_{u2} kN-m	Design M_{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	209.9995	-9.3724	-5.0904	2600	D.31
Bottom	213.0322	7.3019	5.1639	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A_v / s mm^2/m	Design V_{u2} kN	Station Loc mm	Controlling Combo
Top	250	55.046	2600	D.31
Bottom	250	55.2565	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A_v / s mm^2/m	Design V_{u3} kN	Station Loc mm	Controlling Combo
Top	250	55.046	2600	D.31
Bottom	250	55.2565	1040	D.31

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ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	G-5	66	C 30x30	3000	0.669	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	165.794	-15.6713	-4.0188	2600	D.31
Bottom	168.8266	7.0897	4.0924	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	51.6423	2600	D.31
Bottom	250	51.8528	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	51.6423	2600	D.31
Bottom	250	51.8528	1040	D.31

PROYECTO: SAN JUAN DE CASTILLA
ESTRUCTURA: PARQUEADERO

ETABS 2016 Concrete Frame Design

ACI 318-11 Column Section Design

Column Element Details (Envelope)

Level	Element	Unique Name	Section ID	Length (mm)	LLRF	Type
Piso 2	H-5	67	C 30x30	3000	0.762	Sway Special

Section Properties

b (mm)	h (mm)	dc (mm)	Cover (Torsion) (mm)
300	300	59	27.3

Material Properties

E _c (MPa)	f _c (MPa)	Lt.Wt Factor (Unitless)	f _y (MPa)	f _{ys} (MPa)
21589.33	21.1	1	420	420

Design Code Parameters

Φ_T	Φ_{CTied}	$\Phi_{CSpiral}$	Φ_{Vns}	Φ_{Vs}	Φ_{Vjoint}
0.9	0.65	0.75	0.85	0.6	0.85

Longitudinal Reinforcement Design for P_u - M_{u2} - M_{u3} Interaction

Column End	Rebar Area mm ²	Rebar %
Top	900	1
Bottom	900	1

Design Axial Force & Biaxial Moment for P_u - M_{u2} - M_{u3} Interaction

Column End	Design P _u kN	Design M _{u2} kN-m	Design M _{u3} kN-m	Station Loc mm	Controlling Combo
	kN	kN-m	kN-m	mm	
Top	123.8564	-16.4809	-16.3057	2600	D.31
Bottom	126.889	7.685	3.0758	1040	D.31

Shear Reinforcement for Major Shear, V_{u2}

Column End	Rebar A _v /s mm ² /m	Design V _{u2} kN	Station Loc mm	Controlling Combo
Top	250	48.935	2600	D.31
Bottom	250	49.1456	1040	D.31

Shear Reinforcement for Minor Shear, V_{u3}

Column End	Rebar A _v /s mm ² /m	Design V _{u3} kN	Station Loc mm	Controlling Combo
Top	250	48.935	2600	D.31
Bottom	250	49.1456	1040	D.31

Joint Shear Check/Design

	Joint Shear Ratio	Shear V _{u,Tot} kN	Shear V _c kN	Joint Area mm ²	Controlling Combo
Major(V _{u2})	0.674	0	0	0	D.25
Minor(V _{u3})	0.674	0	0	0	D.25

PARQUEADERO DE SAN JUAN DE CASTILLA

Columna A-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-9.08	-11.97	-382.41	37.02	32.49	8/#5 #4 (1.4%)	0.27
		.50			16.52	12.78				8/#5 #4 (1.4%)	0.37

Columna A-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	24.52	19.51	-289.69	43.45	39.11	8/#5 #4 (1.4%)	0.55
		.50			-25.22	-17.83				8/#5 #4 (1.4%)	0.54

Columna A-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	29.88	-1.43	-270.02	47.51	33.66	8/#5 #4 (1.4%)	0.40
		.50			-28.64	-5.05				8/#5 #4 (1.4%)	0.43

Columna A-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	44.31	19.26	-353.90	54.02	34.65	8/#5 #4 (1.4%)	0.80
		.50			-36.19	-15.51				8/#5 #4 (1.4%)	0.64

Columna B-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-17.89	-11.82	-366.96	38.28	34.11	8/#5 #4 (1.4%)	0.38
		.50			21.91	12.12				8/#5 #4 (1.4%)	0.43

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Columna B-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-10.06	20.93	-442.20	40.22	35.72	8/#5 #4 (1.4%)	0.40
		.50			-12.70	-15.02				8/#5 #4 (1.4%)	0.35

Columna B-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-21.60	-16.50	-330.40	41.82	35.81	8/#5 #4 (1.4%)	0.48
		.50			24.76	14.98				8/#5 #4 (1.4%)	0.50

Columna B-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-15.49	17.82	-497.60	45.38	34.70	8/#5 #4 (1.4%)	0.43
		.50			27.19	3.60				8/#5 #4 (1.4%)	0.40

Columna B-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-27.44	-6.02	-286.96	48.47	31.53	8/#5 #4 (1.4%)	0.42
		.50			29.31	8.58				8/#5 #4 (1.4%)	0.47

Columna B-6											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-29.45	-14.10	-377.52	51.25	35.11	8/#5 #4 (1.4%)	0.55
		.50			31.13	13.52				8/#5 #4 (1.4%)	0.57

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Columna B-7											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-14.51	38.20	-330.87	50.99	38.12	8/#5 #4 (1.4%)	0.66
		.50			9.79	-29.08				8/#5 #4 (1.4%)	0.49

Columna C-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-5.19	-17.12	-343.80	34.70	35.17	8/#5 #4 (1.4%)	0.28
		.50			17.95	11.03				8/#5 #4 (1.4%)	0.36

Columna C-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	13.17	15.01	-293.46	35.57	36.57	8/#5 #4 (1.4%)	0.35
		.50			-18.30	-13.64				8/#5 #4 (1.4%)	0.40

Columna C-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-11.31	-15.12	-296.38	36.30	36.67	8/#5 #4 (1.4%)	0.33
		.50			18.48	13.67				8/#5 #4 (1.4%)	0.40

Columna C-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	14.51	12.82	-317.63	37.86	35.65	8/#5 #4 (1.4%)	0.35
		.50			-19.56	-12.31				8/#5 #4 (1.4%)	0.40

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Columna C-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	15.41	5.35	-238.57	39.40	32.71	8/#5 #4 (1.4%)	0.26
		.50			-20.50	-7.75				8/#5 #4 (1.4%)	0.35

Columna C-6											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-10.95	-13.15	-325.98	40.78	36.15	8/#5 #4 (1.4%)	0.30
		.50			19.84	12.47				8/#5 #4 (1.4%)	0.40

Columna C-7											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	20.05	23.22	-237.80	44.69	37.58	8/#5 #4 (1.4%)	0.54
		.50			-24.45	-18.65				8/#5 #4 (1.4%)	0.54

Columna D'-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.51	-17.85	-349.18	35.08	36.70	8/#5 #4 (1.4%)	0.31
		.50			9.51	21.15				8/#5 #4 (1.4%)	0.39

Columna D'-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	4.18	21.67	-298.44	35.91	37.94	8/#5 #4 (1.4%)	0.33
		.50			-6.53	-23.32				8/#5 #4 (1.4%)	0.38

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Columna D'-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-13.48	-14.83	-303.37	36.69	38.21	8/#5 #4 (1.4%)	0.36
		.50			19.80	13.11				8/#5 #4 (1.4%)	0.41

Columna D'-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	11.74	11.81	-331.20	38.20	36.86	8/#5 #4 (1.4%)	0.30
		.50			-17.87	-11.10				8/#5 #4 (1.4%)	0.36

Columna D'-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-16.21	-2.58	-239.16	40.87	34.57	8/#5 #4 (1.4%)	0.24
		.50			22.45	5.63				8/#5 #4 (1.4%)	0.35

Columna E-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.26	-18.61	-348.19	34.92	38.64	8/#5 #4 (1.4%)	0.32
		.50			9.35	22.26				8/#5 #4 (1.4%)	0.40

Columna E-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	4.59	22.18	-297.12	35.65	39.70	8/#5 #4 (1.4%)	0.34
		.50			-6.78	-24.08				8/#5 #4 (1.4%)	0.39

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Columna E-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-5.19	-22.83	-303.27	36.35	40.12	8/#5 #4 (1.4%)	0.36
		.50			7.88	24.84				8/#5 #4 (1.4%)	0.41

Columna E-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	12.33	11.49	-329.61	37.82	38.63	8/#5 #4 (1.4%)	0.30
		.50			-18.22	-10.65				8/#5 #4 (1.4%)	0.36

Columna E-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	14.26	6.27	-236.18	38.97	36.34	8/#5 #4 (1.4%)	0.25
		.50			-19.87	-7.15				8/#5 #4 (1.4%)	0.34

Columna F-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.22	-19.70	-349.05	34.90	41.45	8/#5 #4 (1.4%)	0.33
		.50			9.33	23.84				8/#5 #4 (1.4%)	0.42

Columna F-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	4.43	23.04	-297.04	35.78	42.33	8/#5 #4 (1.4%)	0.35
		.50			-6.68	-25.32				8/#5 #4 (1.4%)	0.40

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Columna F-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-5.59	-23.89	-302.88	36.61	42.89	8/#5 #4 (1.4%)	0.37
		.50			8.12	26.40				8/#5 #4 (1.4%)	0.43

Columna F-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	2.95	20.87	-322.59	38.33	41.39	8/#5 #4 (1.4%)	0.31
		.50			-5.03	-24.00				8/#5 #4 (1.4%)	0.37

Columna F-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.53	-14.55	-250.17	39.78	39.24	8/#5 #4 (1.4%)	0.26
		.50			21.73	8.35				8/#5 #4 (1.4%)	0.37

Columna F-6											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-13.58	-10.06	-317.07	40.01	39.95	8/#5 #4 (1.4%)	0.30
		.50			21.44	10.81				8/#5 #4 (1.4%)	0.40

Columna G-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.73	-20.90	-347.04	35.19	44.65	8/#5 #4 (1.4%)	0.35
		.50			9.64	25.60				8/#5 #4 (1.4%)	0.44

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Columna G-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	4.53	23.97	-295.82	35.49	45.33	8/#5 #4 (1.4%)	0.36
		.50			-6.74	-26.72				8/#5 #4 (1.4%)	0.42

Columna G-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-4.02	-26.12	-312.46	36.04	46.66	8/#5 #4 (1.4%)	0.39
		.50			7.16	28.79				8/#5 #4 (1.4%)	0.45

Columna G-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	15.04	14.14	-337.67	38.36	44.64	8/#5 #4 (1.4%)	0.37
		.50			-19.88	-13.53				8/#5 #4 (1.4%)	0.42

Columna G-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	16.78	4.93	-265.27	40.75	42.58	8/#5 #4 (1.4%)	0.27
		.50			19.49	9.86				8/#5 #4 (1.4%)	0.36

Columna G-6											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-12.33	-10.77	-323.31	41.81	43.31	8/#5 #4 (1.4%)	0.29
		.50			20.67	12.23				8/#5 #4 (1.4%)	0.41

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Columna G'-7											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-28.33	-4.31	-310.59	52.16	43.08	8/#5 #4 (1.4%)	0.42
		.50			18.54	20.91				8/#5 #4 (1.4%)	0.50

Columna H-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-4.23	-22.47	-359.25	35.72	48.18	8/#5 #4 (1.4%)	0.35
		.50			8.12	27.63				8/#5 #4 (1.4%)	0.46

Columna H-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	5.77	25.34	-307.95	35.99	48.55	8/#5 #4 (1.4%)	0.39
		.50			-7.50	-28.44				8/#5 #4 (1.4%)	0.45

Columna H-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-12.33	-24.02	-269.47	41.69	49.15	8/#5 #4 (1.4%)	0.45
		.50			12.24	28.58				8/#5 #4 (1.4%)	0.50

Columna H-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-16.76	14.23	-398.49	46.67	47.31	8/#5 #4 (1.4%)	0.40
		.50			27.98	6.67				8/#5 #4 (1.4%)	0.43

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Columna H-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-23.22	-16.44	-201.23	49.08	46.03	8/#5 #4 (1.4%)	0.49
		.50			19.13	23.95				8/#5 #4 (1.4%)	0.54

Columna I-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-18.68	-20.02	-287.68	41.88	50.64	8/#5 #4 (1.4%)	0.49
		.50			16.86	27.24				8/#5 #4 (1.4%)	0.55

Columna A-7											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	48.50	30.38	-119.34	58.23	34.16	8/#5 #4 (1.4%)	0.99
		.50			-40.38	-20.16				8/#5 #4 (1.4%)	0.76

Columna A-6											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	67.76	-0.79	-238.10	66.35	32.82	8/#5 (1.8%)	0.85
		.50			-47.86	-6.65				8/#5 (1.8%)	0.65

Columna A-5											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	57.62	6.04	-165.74	60.37	30.13	8/#5 (1.8%)	0.77
		.50			-42.70	-9.67				8/#5 (1.8%)	0.62

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Columna H-6											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	5.95	-38.39	-187.41	49.71	51.99	8/#5 #4 (1.4%)	0.56
		.50			10.91	35.29				8/#5 #4 (1.4%)	0.58

Columna I-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-18.07	-34.01	-149.56	46.96	48.62	8/#5 #4 (1.4%)	0.65
		.50			24.38	29.45				8/#5 #4 (1.4%)	0.67

Columna A'-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	11.45	10.55	-25.23	30.99	30.87	8/#5 #4 (1.4%)	0.28
		.50			-16.33	-16.05				8/#5 #4 (1.4%)	0.42

Columna A'-2											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	22.54	17.84	-108.86	36.72	35.23	8/#5 #4 (1.4%)	0.51
		.50			-22.80	-20.50				8/#5 #4 (1.4%)	0.55

Columna A'-1											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	35.30	5.89	-144.35	47.32	30.34	8/#5 #4 (1.4%)	0.53
		.50			-31.64	-10.20				8/#5 #4 (1.4%)	0.52

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Columna A'-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	25.95	-0.86	-52.35	40.17	29.90	8/#5 #4 (1.4%)	0.43
		.50			-25.83	-6.08				8/#5 #4 (1.4%)	0.43

Columna A-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-10.93	-19.19	-147.75	34.26	33.86	8/#5 #4 (1.4%)	0.38
		.50			17.42	17.19				8/#5 #4 (1.4%)	0.43

Columna B-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-15.08	-18.20	-139.02	35.46	34.61	8/#5 #4 (1.4%)	0.42
		.50			19.96	16.02				8/#5 #4 (1.4%)	0.45

Columna C-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-5.75	-22.60	-132.49	33.27	35.42	8/#5 #4 (1.4%)	0.36
		.50			9.44	23.53				8/#5 #4 (1.4%)	0.41

Columna D-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.69	-23.27	-135.01	33.65	36.84	8/#5 #4 (1.4%)	0.38
		.50			10.02	24.46				8/#5 #4 (1.4%)	0.43

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Columna E-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.50	-23.92	-134.81	33.54	38.61	8/#5 #4 (1.4%)	0.39
		.50			9.90	25.51				8/#5 #4 (1.4%)	0.45

Columna F-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.44	-24.89	-135.73	33.50	41.19	8/#5 #4 (1.4%)	0.40
		.50			9.87	27.01				8/#5 #4 (1.4%)	0.46

Columna G-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.95	-25.90	-134.92	33.84	44.10	8/#5 #4 (1.4%)	0.42
		.50			10.18	28.65				8/#5 #4 (1.4%)	0.49

Columna H-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-4.50	-27.56	-141.85	33.91	47.45	8/#5 #4 (1.4%)	0.42
		.50			8.68	30.74				8/#5 #4 (1.4%)	0.50

Columna I-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-14.50	-25.91	-126.46	39.99	48.56	8/#5 #4 (1.4%)	0.51
		.50			14.79	30.83				8/#5 #4 (1.4%)	0.58

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Columna I'-0											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-6.46	-17.06	-27.06	33.23	42.46	8/#5 #4 (1.4%)	0.32
		.50			9.86	25.94				8/#5 #4 (1.4%)	0.49

Columna H'-4											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-13.27	-20.22	-105.51	47.87	41.19	8/#5 #4 (1.4%)	0.42
		.50			21.44	20.68				8/#5 #4 (1.4%)	0.53

Columna H'-3											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-16.80	-16.37	-62.47	47.22	38.66	8/#5 #4 (1.4%)	0.42
		.50			26.09	15.34				8/#5 #4 (1.4%)	0.53

Columna G''-7											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-17.09	-21.79	-108.32	49.05	43.74	8/#5 #4 (1.4%)	0.49
		.50			19.38	26.06				8/#5 #4 (1.4%)	0.58

Columna G''-8											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2	2.60	.40	.30	.30	-15.02	-15.71	-22.11	43.98	41.40	8/#5 #4 (1.4%)	0.40
		.50			18.12	22.77				8/#5 #4 (1.4%)	0.54

PARQUEADERO DE SAN JUAN DE CASTILLA

Columna G'-8											
Nivel	H Libre	Losa	B	H	M1	M2	P	V1	V2	Cuantia	m/mr
Piso 2					-15.79	21.59				8/#5 #4 (1.4%)	0.47
	2.60	.40	.30	.30			-181.99	53.50	42.90		
		.50			31.53	1.82				8/#5 #4 (1.4%)	0.47

12.3

DISEÑO DE LOSA DE ENTREPISO

DISEÑO DE LA LOSA DEL PISO 2 EN SENTIDO X

Nivel: PISO 2

Diagrama M11

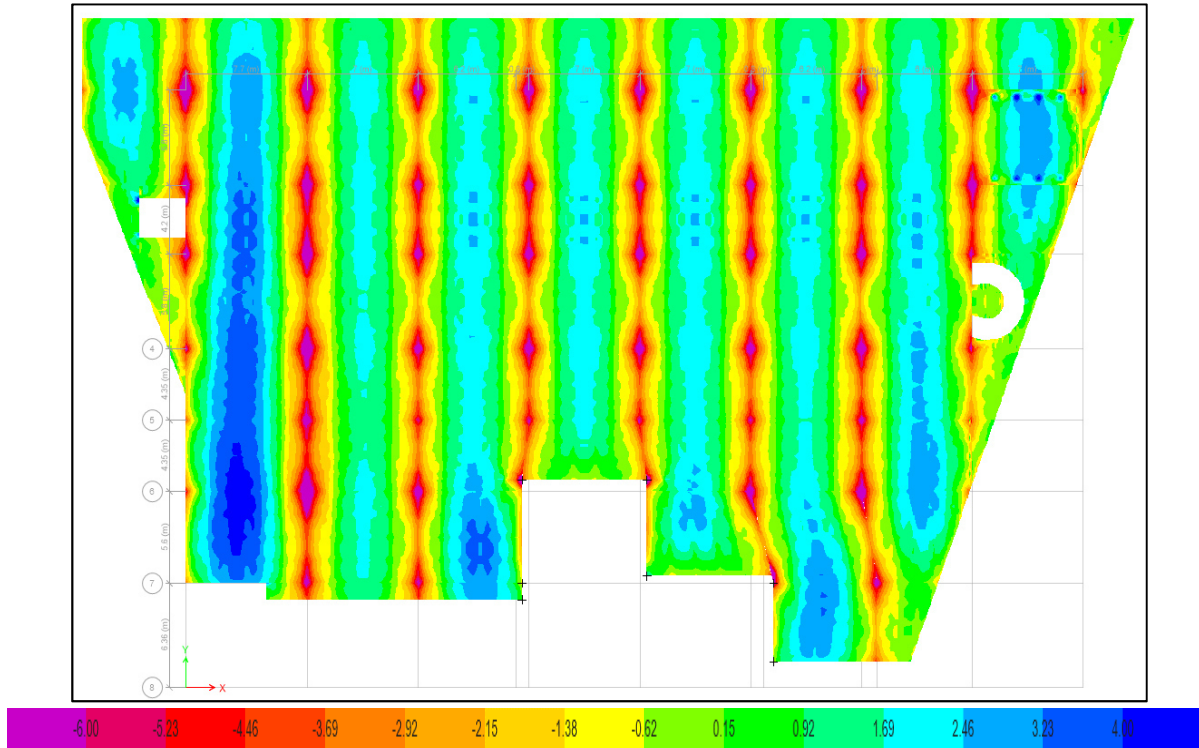
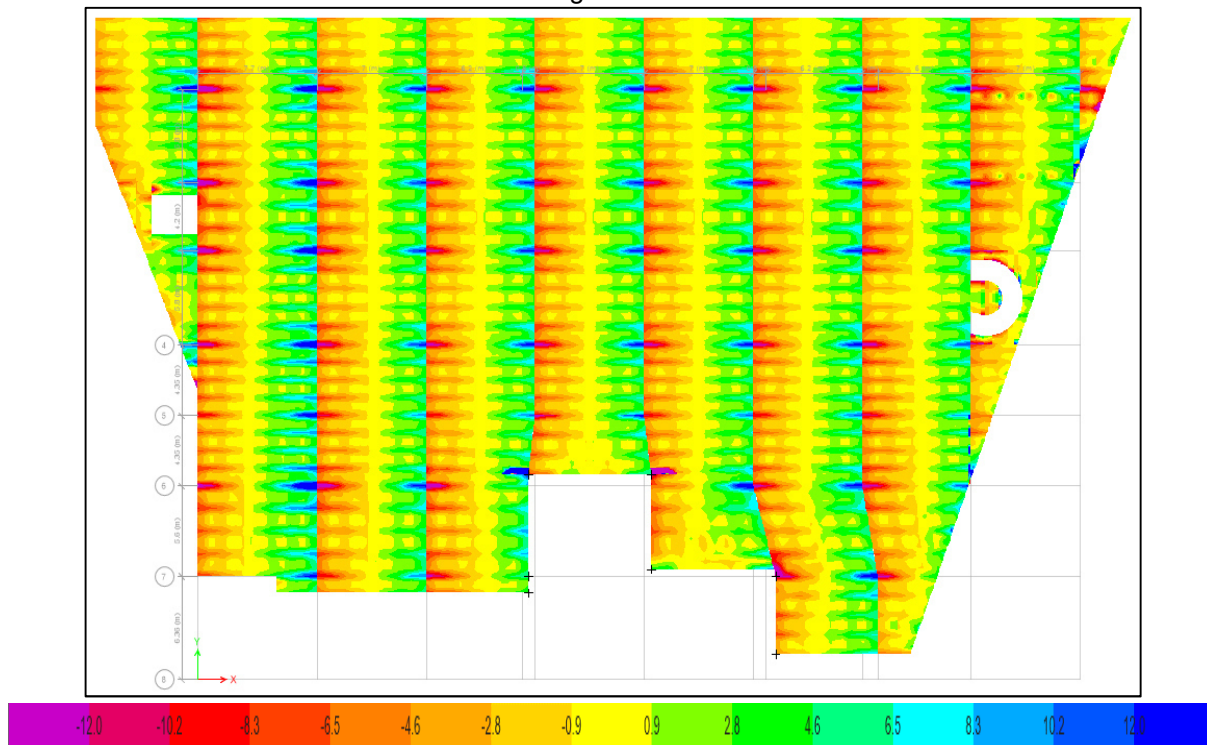


Diagrama V13



DISEÑO DE LA LOSA DEL PISO 2 EN SENTIDO XNivel: PISO 2

MATERIALES	
f_c (Mpa)	21.1
f_y (Mpa)	420

GEOMETRIA	
h (m)	0.10
C_c (m)	0.02
d' (m)	0.020
d (m)	0.080

MOMENTO INFERIOR		REV.
Refuerzo a flexión		
Mu (kN-m/m)	5.17	ø6.0mm
Barra (φ)	ø6.0mm	
Asb (mm²)	28	Ok
Separación (m)	0.15	
As (mm²)	188	Ok
ρ	0.002356	
φMc (kN-m/m)	5.54	Ok
Refuerzo adicional		
ΔφMc (kN-m/m)	0.00	
ρ		
As (mm²)		
Barra (φ)	ø4.0mm	
Asb (mm²)		
Separación (m)		
As (mm²)		
ρ total		

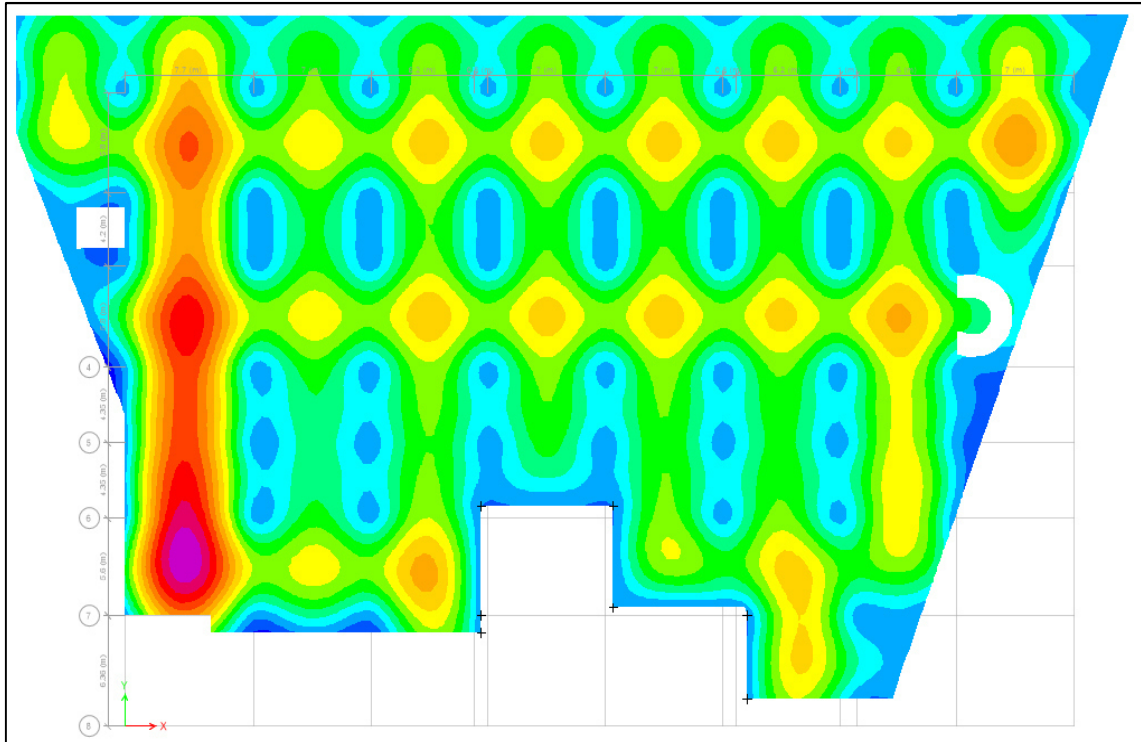
MOMENTO SUPERIOR		REV.
Refuerzo a flexión		
Mu (kN-m/m)	4.70	Ok
Barra (φ)	φ6.0mm	
Asb (mm²)	28	
Separación (m)	0.15	
As (mm²)	188	
ρ	0.002356	Ok
φMc (kN-m/m)	5.54	Ok
Refuerzo adicional		
ΔφMc (kN-m/m)	0.00	
ρ		
As (mm²)		
Barra (φ)	φ4.0mm	
Asb (mm²)		
Separación (m)		
As (mm²)		
ρ total		

REVISIÓN DE CORTANTE		REV.
V_u (kN/m)	20.00	
ϕV_c (kN/m)	46.85	Ok

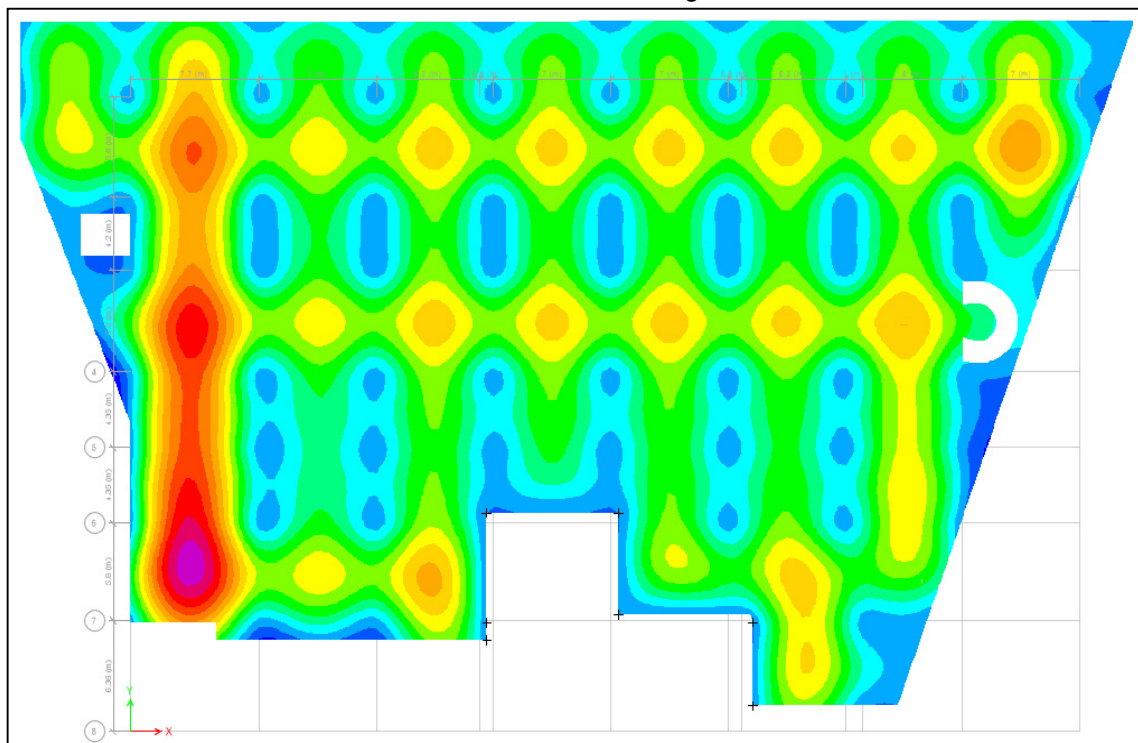
REVISIÓN DE DEFLEXIONES DEL PISO 2 EN SENTIDO X

Nivel: PISO 2

* Deflexión con caso de carga: D



* Deflexión con caso de carga: D + L



REVISIÓN DE DEFLEXIONES DEL PISO 2 EN SENTIDO XNivel: PISO 2

ANÁLISIS DE DEFLEXIONES	
Deflexiones inmediatas	
L (m)	7.70
Δ (mm) D	7.11
Δ (mm) D+L	10.15
Δ (mm) PP	5.87

LÍMITE DE DEFLEXIÓN	
Condición	L/240
Δ max (mm)	32.08

DEF. LARGO PLAZO	
ξ	2.00
ρ'	0.00
λ	2.00

REVISIÓN DE DEFLEXIÓN	
Δ (mm)	18.5

TIPO DE ELEMENTO	
4	Sistema de entrepiso o cubierta que soporte o esté ligado a elementos no estructurales no susceptibles de sufrir daños debido a deflexiones grandes.

DEFLEXIÓN CONSIDERADA	
2	La parte de la deflexión total que ocurre después de la unión de los elementos no estructurales (la suma de la deflexión a largo plazo debida a todas las cargas permanentes, y deflexiones inmediatas debida a cualquier carga viva adicional).

* Valores recomendados por ACI STRUCTURAL JOURNAL - Title No. 108-S38

Ok

DISEÑO DE LA LOSA DEL PISO 2 EN SENTIDO Y

Nivel: PISO 2

Diagrama M22

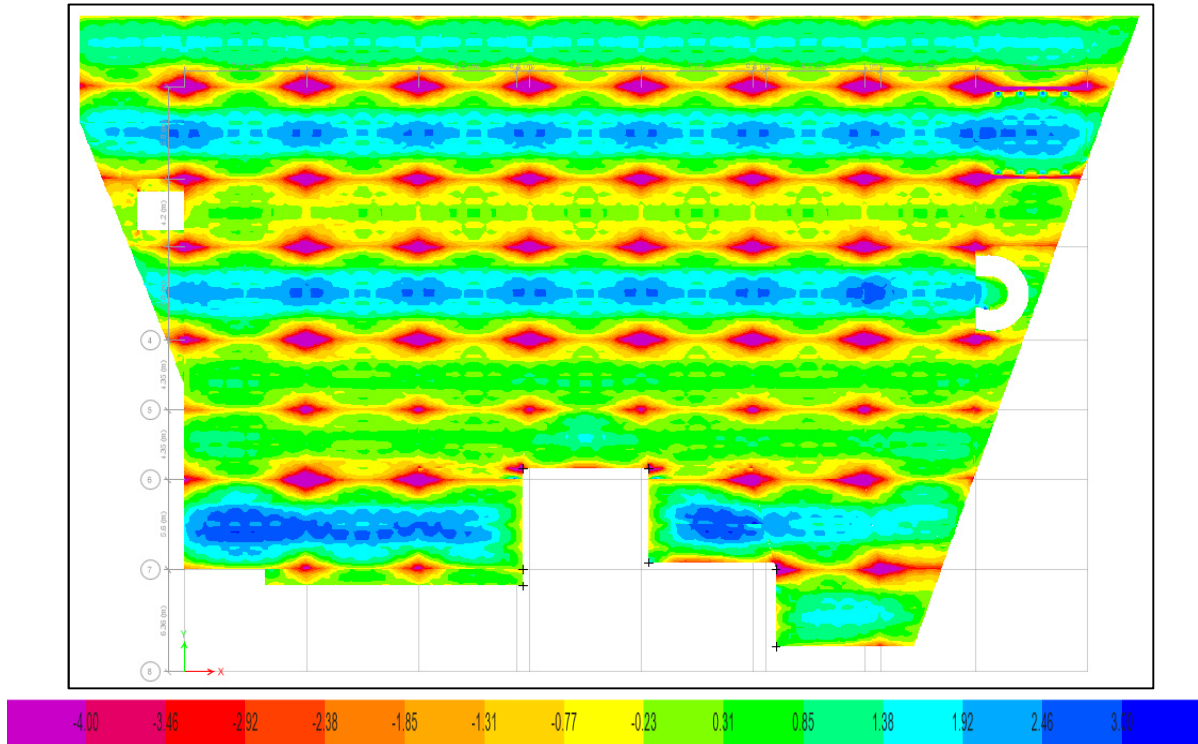
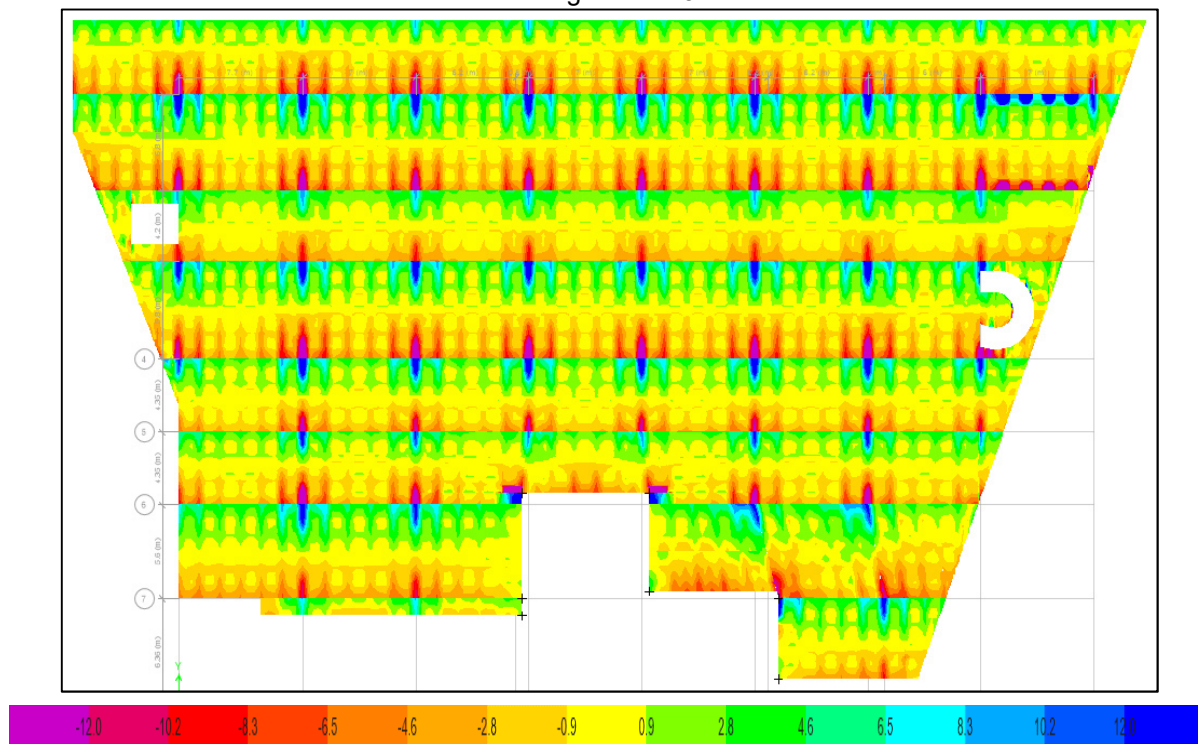


Diagrama V23



DISEÑO DE LA LOSA DEL PISO 2 EN SENTIDO Y

Nivel: PISO 2

MATERIALES	
f'_c (Mpa)	21.1
f_y (Mpa)	420

GEOMETRIA	
h (m)	0.10
C_c (m)	0.02
d' (m)	0.020
d (m)	0.080

MOMENTO INFERIOR		REV.
Refuerzo a flexión		
Mu (kN-m/m)	2.54	φ6.0mm
Barra (φ)	φ6.0mm	
Asb (mm²)	28	
Separación (m)	0.15	Ok
As (mm²)	188	Ok
ρ	0.002356	
φMc (kN-m/m)	5.54	
Refuerzo adicional		Ok
ΔφMc (kN-m/m)	0.00	
ρ		
As (mm²)		
Barra (φ)	φ5.0mm	
Asb (mm²)		
Separación (m)		
As (mm²)		
ρ total		

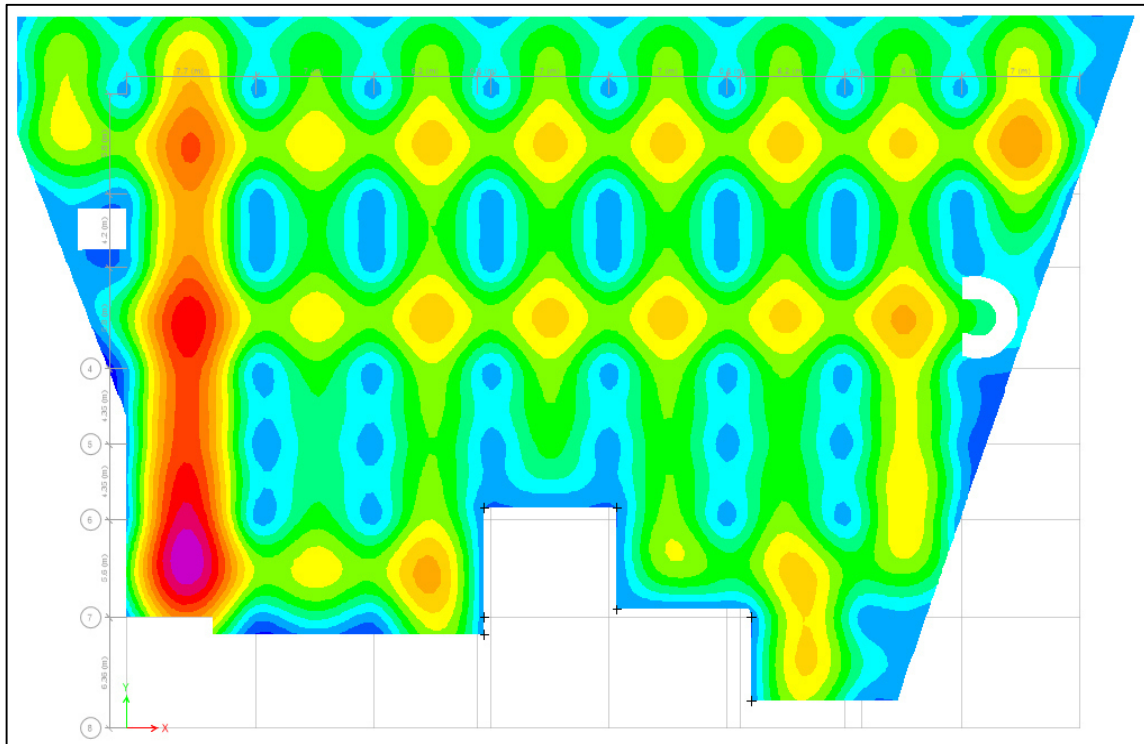
MOMENTO SUPERIOR		REV.
Refuerzo a flexión		
Mu (kN-m/m)	5.00	φ6.0mm
Barra (φ)	φ6.0mm	
Asb (mm²)	28	
Separación (m)	0.15	Ok
As (mm²)	188	Ok
ρ	0.002356	
φMc (kN-m/m)	5.54	
Refuerzo adicional		Ok
ΔφMc (kN-m/m)	0.00	
ρ		
As (mm²)		
Barra (φ)	φ5.0mm	
Asb (mm²)		
Separación (m)		
As (mm²)		
ρ total		

REVISIÓN DE CORTANTE		REV.
V_u (kN/m)	20.00	
ϕV_c (kN/m)	46.85	Ok

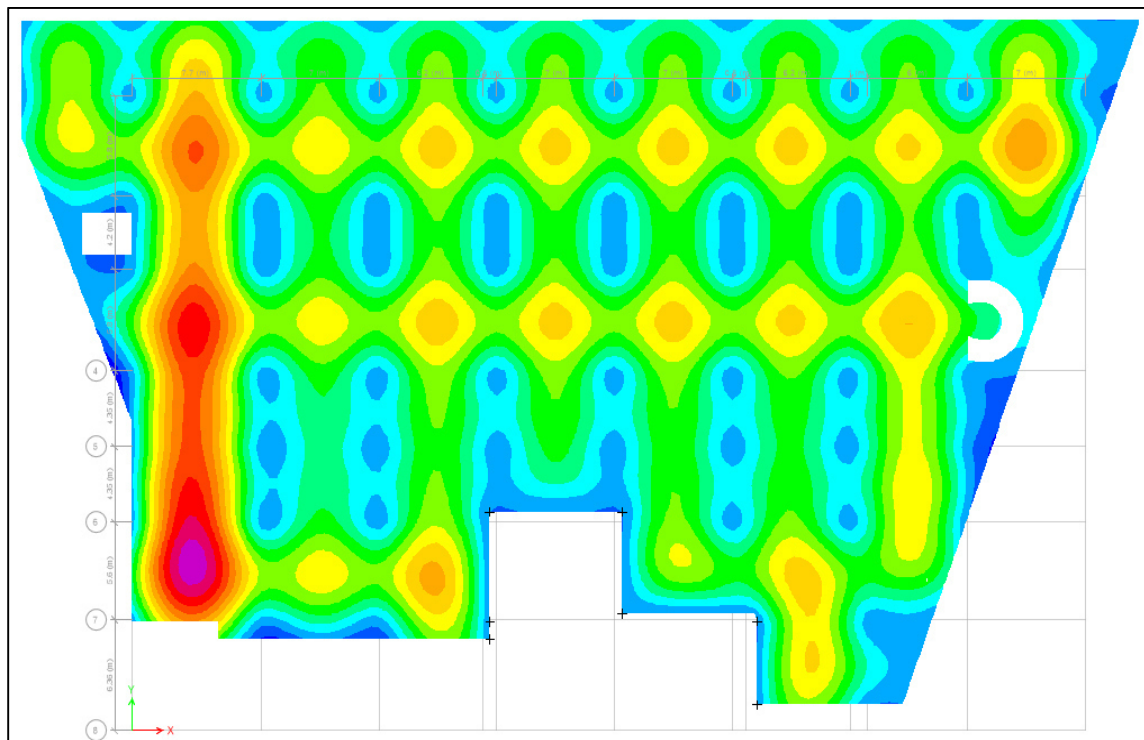
REVISIÓN DE DEFLEXIONES DEL PISO 2 EN SENTIDO Y

Nivel: PISO 2

* Deflexión con caso de carga: D



* Deflexión con caso de carga: D + L



REVISIÓN DE DEFLEXIONES DEL PISO 2 EN SENTIDO YNivel: PISO 2

ANÁLISIS DE DEFLEXIONES	
Deflexiones inmediatas	
L (m)	5.60
Δ (mm) D	7.11
Δ (mm) D+L	10.15
Δ (mm) PP	5.87

LÍMITE DE DEFLEXIÓN	
Condición	L/240
Δ max (mm)	23.33

DEF. LARGO PLAZO	
ξ	2.00
ρ'	0.00
λ	2.00

REVISIÓN DE DEFLEXIÓN	
Δ (mm)	18.5

Ok

TIPO DE ELEMENTO	
4	Sistema de entrepiso o cubierta que soporte o esté ligado a elementos no estructurales no susceptibles de sufrir daños debido a deflexiones grandes.

DEFLEXIÓN CONSIDERADA	
2	La parte de la deflexión total que ocurre después de la unión de los elementos no estructurales (la suma de la deflexión a largo plazo debida a todas las cargas permanentes, y deflexiones inmediatas debida a cualquier carga viva adicional).

* Valores recomendados por ACI STRUCTURAL JOURNAL - Title No. 108-S38

12.4

REVISIÓN DE ZAPATA CÉNTRICAS

LOCALIZACIÓN DE COLUMNA: A-4

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	265.9	7.3%
P. P Zapata	19.4	7.3%
Total	285.3	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	2.85	
Lz (m)	1.80	1.69
Bz (m)	1.80	1.69
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	88.07	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	66.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.003150	
As (mm²)	1021	Dis
Barra (φ)	#4	
Separación	0.23	
Repartición	#4 c/0.23	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	66.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.003150	
As (mm²)	1021	Dis
Barra (φ)	#4	
Separación	0.23	
Repartición	#4 c/0.23	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	398	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	135.5	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	135.5	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: B-4

REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	368.7	7.8%
P. P Zapata	28.8	7.8%
Total	397.4	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m ²)	3.97	
Lz (m)	2.00	1.99
Bz (m)	2.00	1.99
h2 (m)	0.30	0.30
ESFUERZO TERRENO		
σ Neto (kN/m ²)	99.35	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
U	1.50	
Mu (kN-m)	107.7	
d (m)	0.23	
h (m)	0.30	
ρ	0.002783	
As (mm ²)	1280	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	107.7	
d (m)	0.23	
h (m)	0.30	
ρ	0.002783	
As (mm ²)	1280	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m ²)	100
Δ (mm)	80.6
Kv (kN/m ³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	554	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	
φVc (kN)	883.9	Ok
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	184.8	
dv (m)	0.23	
φVc (kN)	269.4	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	184.8	
dv (m)	0.23	
φVc (kN)	269.4	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m ²)	2.25	
√(A ₂ /A ₁)	5.00	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

B-3

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	336.4	5.8%
P. P Zapata	19.5	5.8%
Total	355.9	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m ²)	3.56	
Lz (m)	1.80	1.89
Bz (m)	1.80	1.89
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m ²)	109.85	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	83.4	
d (m)	0.18	
h (m)	0.25	
ρ	0.003969	
As (mm ²)	1286	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	83.4	
d (m)	0.18	
h (m)	0.25	
ρ	0.003969	
As (mm ²)	1286	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

PARAMETROS DEL SUELO	
σ max (kN/m ²)	100
Δ (mm)	80.6
Kv (kN/m ³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	496	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	169.1	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	169.1	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m ²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

B-2

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	327.7	5.9%
P. P Zapata	19.3	5.9%
Total	347.1	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.47	
Lz (m)	1.80	1.86
Bz (m)	1.80	1.86
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	107.12	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	81.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.003865	
As (mm²)	1252	Dis
Barra (φ)	#4	
Separación	0.19	
Repartición	#4 c/0.19	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	81.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.003865	
As (mm²)	1252	Dis
Barra (φ)	#4	
Separación	0.19	
Repartición	#4 c/0.19	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	484	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	164.9	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	164.9	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

C-7

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	245.7	7.9%
P. P Zapata	19.4	7.9%
Total	265.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	2.65	
Lz (m)	1.80	1.63
Bz (m)	1.80	1.63
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	81.84	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	62.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.002919	
As (mm²)	946	Dis
Barra (φ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	62.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.002919	
As (mm²)	946	Dis
Barra (φ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	369	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	125.9	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	125.9	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: C-6

REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	331.0	8.7%
P. P Zapata	28.8	8.7%
Total	359.8	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.60	
Lz (m)	2.00	1.90
Bz (m)	2.00	1.90
h2 (m)	0.30	0.30
ESFUERZO TERRENO		
σ Neto (kN/m²)	89.95	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
U	1.50	
Mu (kN-m)	97.5	
d (m)	0.23	
h (m)	0.30	
ρ	0.002512	
As (mm²)	1155	Dis
Barra (φ)	#4	
Separación	0.22	
Repartición	#4 c/0.22	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	97.5	
d (m)	0.23	
h (m)	0.30	
ρ	0.002512	
As (mm²)	1155	Dis
Barra (φ)	#4	
Separación	0.22	
Repartición	#4 c/0.22	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	502	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	
φVc (kN)	883.9	Ok
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	167.3	
dv (m)	0.23	
φVc (kN)	269.4	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	167.3	
dv (m)	0.23	
φVc (kN)	269.4	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	2.25	
√(A ₂ /A ₁)	5.00	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

C-5

REFERENCIA:

Z-1

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	240.8	6.4%
P. P Zapata	15.4	6.4%
Total	256.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m ²)	2.56	
Lz (m)	1.60	1.60
Bz (m)	1.60	1.60
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m ²)	100.06	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.65	
Bz2 (m)	1.60	
U	1.50	
Mu (kN-m)	50.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.002673	
As (mm ²)	770	Dis
Barra (φ)	#4	
Separación	0.27	
Repartición	#4 c/0.27	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.65	
Lz2 (m)	1.60	
Mu (kN-m)	50.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.002673	
As (mm ²)	770	Dis
Barra (φ)	#4	
Separación	0.27	
Repartición	#4 c/0.27	

PARAMETROS DEL SUELO	
σ max (kN/m ²)	100
Δ (mm)	80.6
Kv (kN/m ³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	350	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	112.9	
dv (m)	0.18	
φVc (kN)	168.7	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	112.9	
dv (m)	0.18	
φVc (kN)	168.7	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m ²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: C-4

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	323.2	6.0%
P. P Zapata	19.4	6.0%
Total	342.5	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.43	
Lz (m)	1.80	1.85
Bz (m)	1.80	1.85
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	105.72	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	80.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.003812	
As (mm²)	1235	Dis
Barra (φ)	#4	
Separación	0.19	
Repartición	#4 c/0.19	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	80.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.003812	
As (mm²)	1235	Dis
Barra (φ)	#4	
Separación	0.19	
Repartición	#4 c/0.19	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	477	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	162.7	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	162.7	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

C-3

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	301.7	6.4%
P. P Zapata	19.3	6.4%
Total	321.0	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.21	
Lz (m)	1.80	1.79
Bz (m)	1.80	1.79
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	99.06	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	75.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.003561	
As (mm²)	1154	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	75.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.003561	
As (mm²)	1154	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	447	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	152.5	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	152.5	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: C-2

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	299.3	6.5%
P. P Zapata	19.5	6.5%
Total	318.7	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.19	
Lz (m)	1.80	1.79
Bz (m)	1.80	1.79
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	98.38	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	74.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.003536	
As (mm²)	1146	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	74.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.003536	
As (mm²)	1146	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	444	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	151.4	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	151.4	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

D'-5

REFERENCIA:

Z-1

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	241.8	6.4%
P. P Zapata	15.5	6.4%
Total	257.3	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	2.57	
Lz (m)	1.60	1.60
Bz (m)	1.60	1.60
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	100.51	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.65	
Bz2 (m)	1.60	
U	1.50	
Mu (kN-m)	51.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.002685	
As (mm²)	773	Dis
Barra (φ)	#4	
Separación	0.27	
Repartición	#4 c/0.27	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.65	
Lz2 (m)	1.60	
Mu (kN-m)	51.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.002685	
As (mm²)	773	Dis
Barra (φ)	#4	
Separación	0.27	
Repartición	#4 c/0.27	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	351	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Ok
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	113.4	
dv (m)	0.18	
φVc (kN)	168.7	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	113.4	
dv (m)	0.18	
φVc (kN)	168.7	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: D'-4

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	337.0	5.8%
P. P Zapata	19.5	5.8%
Total	356.5	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.57	
Lz (m)	1.80	1.89
Bz (m)	1.80	1.89
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	110.04	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	83.6	
d (m)	0.18	
h (m)	0.25	
ρ	0.003976	
As (mm²)	1288	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	83.6	
d (m)	0.18	
h (m)	0.25	
ρ	0.003976	
As (mm²)	1288	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	497	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	169.4	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	169.4	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: D'-3

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	309.3	6.3%
P. P Zapata	19.5	6.3%
Total	328.8	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.29	
Lz (m)	1.80	1.81
Bz (m)	1.80	1.81
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	101.49	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	77.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.003653	
As (mm²)	1183	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	77.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.003653	
As (mm²)	1183	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	458	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	156.2	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	156.2	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

D'-2

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	305.8	6.4%
P. P Zapata	19.6	6.4%
Total	325.3	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.25	
Lz (m)	1.80	1.80
Bz (m)	1.80	1.80
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	100.41	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	76.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.003612	
As (mm²)	1170	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	76.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.003612	
As (mm²)	1170	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	453	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	154.5	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	154.5	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

E-5

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	241.1	8.1%
P. P Zapata	19.5	8.1%
Total	260.6	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	2.61	
Lz (m)	1.80	1.61
Bz (m)	1.80	1.61
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	80.43	Ok

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	61.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.002867	
As (mm²)	929	Dis
Barra (φ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	61.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.002867	
As (mm²)	929	Dis
Barra (φ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	363	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Ok
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	123.8	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	123.8	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: E-4

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	335.4	5.8%
P. P Zapata	19.5	5.8%
Total	354.9	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.55	
Lz (m)	1.80	1.88
Bz (m)	1.80	1.88
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	109.53	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	83.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.003957	
As (mm²)	1282	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	83.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.003957	
As (mm²)	1282	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	494	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	168.6	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	168.6	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

E-3

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	307.7	6.3%
P. P Zapata	19.4	6.3%
Total	327.1	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.27	
Lz (m)	1.80	1.81
Bz (m)	1.80	1.81
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	100.95	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	76.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.003632	
As (mm²)	1177	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	76.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.003632	
As (mm²)	1177	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	456	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	155.4	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	155.4	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

E-2

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	304.6	6.4%
P. P Zapata	19.5	6.4%
Total	324.1	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.24	
Lz (m)	1.80	1.80
Bz (m)	1.80	1.80
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	100.04	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	76.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.003598	
As (mm²)	1166	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	76.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.003598	
As (mm²)	1166	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	452	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	154.0	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	154.0	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: F-6

REFERENCIA: Z-1

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	322.4	6.4%
P. P Zapata	20.6	6.4%
Total	343.0	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m ²)	3.43	
Lz (m)	1.85	1.85
Bz (m)	1.85	1.85
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m ²)	100.23	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.78	
Bz2 (m)	1.85	
U	1.50	
Mu (kN-m)	83.5	
d (m)	0.18	
h (m)	0.25	
ρ	0.003862	
As (mm ²)	1286	Dis
Barra (φ)	#4	
Separación	0.19	
Repartición	#4 c/0.19	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.78	
Lz2 (m)	1.85	
Mu (kN-m)	83.5	
d (m)	0.18	
h (m)	0.25	
ρ	0.003862	
As (mm ²)	1286	Dis
Barra (φ)	#4	
Separación	0.19	
Repartición	#4 c/0.19	

PARAMETROS DEL SUELO	
σ max (kN/m ²)	100
Δ (mm)	80.6
Kv (kN/m ³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	480	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	165.5	
dv (m)	0.18	
φVc (kN)	195.0	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	165.5	
dv (m)	0.18	
φVc (kN)	195.0	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m ²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

F-5

REFERENCIA:

Z-1

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	251.9	6.1%
P. P Zapata	15.4	6.1%
Total	267.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	2.67	
Lz (m)	1.60	1.63
Bz (m)	1.60	1.63
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	104.39	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.65	
Bz2 (m)	1.60	
U	1.50	
Mu (kN-m)	52.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.002792	
As (mm²)	804	Dis
Barra (φ)	#4	
Separación	0.26	
Repartición	#4 c/0.26	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.65	
Lz2 (m)	1.60	
Mu (kN-m)	52.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.002792	
As (mm²)	804	Dis
Barra (φ)	#4	
Separación	0.26	
Repartición	#4 c/0.26	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	365	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	117.8	
dv (m)	0.18	
φVc (kN)	168.7	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	117.8	
dv (m)	0.18	
φVc (kN)	168.7	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: F-4

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	329.9	5.9%
P. P Zapata	19.5	5.9%
Total	349.4	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m ²)	3.49	
Lz (m)	1.80	1.87
Bz (m)	1.80	1.87
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m ²)	107.84	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	81.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.003893	
As (mm ²)	1261	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	81.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.003893	
As (mm ²)	1261	Dis
Barra (φ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

PARAMETROS DEL SUELO	
σ max (kN/m ²)	100
Δ (mm)	80.6
Kv (kN/m ³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	487	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una dirección		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	166.0	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	166.0	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m ²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA: F-3

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	307.1	6.3%
P. P Zapata	19.3	6.3%
Total	326.5	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m²)	3.26	
Lz (m)	1.80	1.81
Bz (m)	1.80	1.81
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m²)	100.77	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	76.5	
d (m)	0.18	
h (m)	0.25	
ρ	0.003626	
As (mm²)	1175	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	76.5	
d (m)	0.18	
h (m)	0.25	
ρ	0.003626	
As (mm²)	1175	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m²)	100
Δ (mm)	80.6
Kv (kN/m³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	455	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	155.1	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	155.1	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

LOCALIZACIÓN DE COLUMNA:

F-2

REFERENCIA:

Z-2

SOLICITACIONES		REV.
Bc (m)	0.30	
Lc (m)	0.30	
P (kN)	304.9	6.4%
P. P Zapata	19.5	6.4%
Total	324.4	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	
DIMENSIONES		
Area (m ²)	3.24	
Lz (m)	1.80	1.80
Bz (m)	1.80	1.80
h2 (m)	0.25	0.25
ESFUERZO TERRENO		
σ Neto (kN/m ²)	100.11	Rev

DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
U	1.50	
Mu (kN-m)	76.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.003601	
As (mm ²)	1167	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	76.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.003601	
As (mm ²)	1167	Dis
Barra (φ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

PARAMETROS DEL SUELO	
σ max (kN/m ²)	100
Δ (mm)	80.6
Kv (kN/m ³)	1240.7

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	452	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	
φVc (kN)	568.2	Ok
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	154.1	
dv (m)	0.18	
φVc (kN)	189.8	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	154.1	
dv (m)	0.18	
φVc (kN)	189.8	Ok

REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	Ok
Aplastamiento en la zapata		
A ₂ (m ²)	1.69	
√(A ₂ /A ₁)	4.33	mayor 2
φPn (kN)	2098.4	Ok

LONGITUD DE DESARROLLO		REV.
Barra/Col (φ)	#5	
Ld (m)	0.349	Rev

12.5

DISEÑO DE ZAPATAS EXCÉNTRICAS

LOCALIZACIÓN DE COLUMNA: A-6

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	179.3	6.8%
P. P Zap (kN)	11.8	6.6%
Total	191.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m²)	100

DIMENSIONES		REV.
A1 (m²)	1.91	
Bz1 (m)	1.20	1.00
ΔR (kN)	11.87	9.1
Lz1 (m)	1.70	2
ESFUERZO TERRENO		
σ Neto (kN/m²)	93.72	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	27.55	
Factor	1.50	
Mu (kN-m)	41.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.002912	
As (mm²)	629	Dis
Barra (φ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm²)	315	
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: B-6
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	383.4	7.5%
P. P Zapata	28.8	7.5%
Total	412.1	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m²)	100

SOLICITACIONES		REV.
A2 (m²)	4.00	
Lz2 (m)	2.00	2
ΔR (kN)	11.87	9.1
Bz2 (m)	2.00	2
ESFUERZO TERRENO		
σ Neto (kN/m²)	92.88	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	100.7	
d (m)	0.23	
h (m)	0.30	
ρ	0.002596	
As (mm²)	1194	Dis
Barra (φ)	#4	
Separación	0.22	
Repartición	#4 c/0.22	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	100.7	
d (m)	0.16	
h (m)	0.25	
ρ	0.005565	
As (mm²)	1781	Dis
Barra (φ)	#4	
Separación	0.14	
Repartición	#4 c/0.14	

LOCALIZACIÓN DE COLUMNA: A-6

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	179.33	
Lz1 (m)	11.84	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	78.7	Ok
Vu (kN)	118.1	
ϕV_c (kN)	126.5	

LOCALIZACIÓN DE COLUMNA: B-6
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	4.00	0.30
Lz2 (m)	2.00	
ΔR (kN)	11.87	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	518.1	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	172.8	Ok
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	192.3	Rev
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A-6 y B-6

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	7.70

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	78.9	Dis
Factor	1.50	
Mu (kN-m)	118.4	
d (m)	0.41	
h (m)	0.50	
ρ	0.006743	
As req (mm²)	829	
Barra (ϕ)	#6	
Cantidad	3	
As (mm²)	852	
Análisis de cortante		Ok
Xo (m)	0.98	
V b. Col (kN)	131.5	
Vu (kN)	197.3	
ϕV_c (kN)	72.0	
ϕV_s (kN)	125.3	
X (m)	0.52	
ϵ (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.15	
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	23.9
0.15	-155.4
1.20	11.9
7.70	11.9
7.70	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.79
0.26	-14.6
0.36	-29.3
0.47	-42.1
0.57	-53.0
0.68	-62.0
0.78	-69.2
0.89	-74.4
0.99	-77.8
1.10	-79.3
1.20	-78.9
1.20	-78.9
7.70	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A-6 y B-6

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

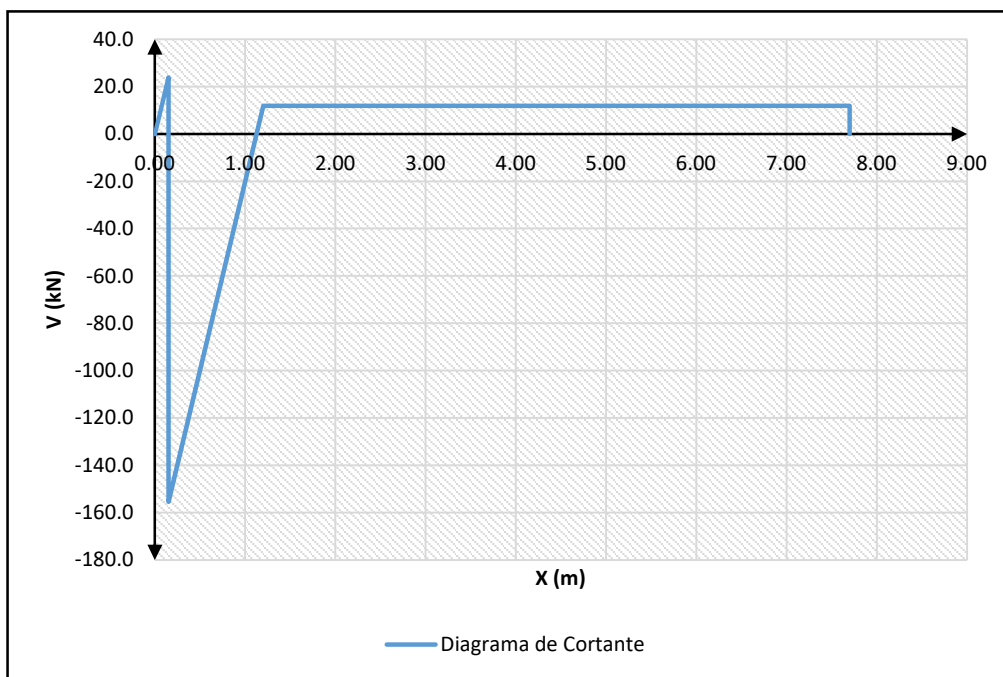
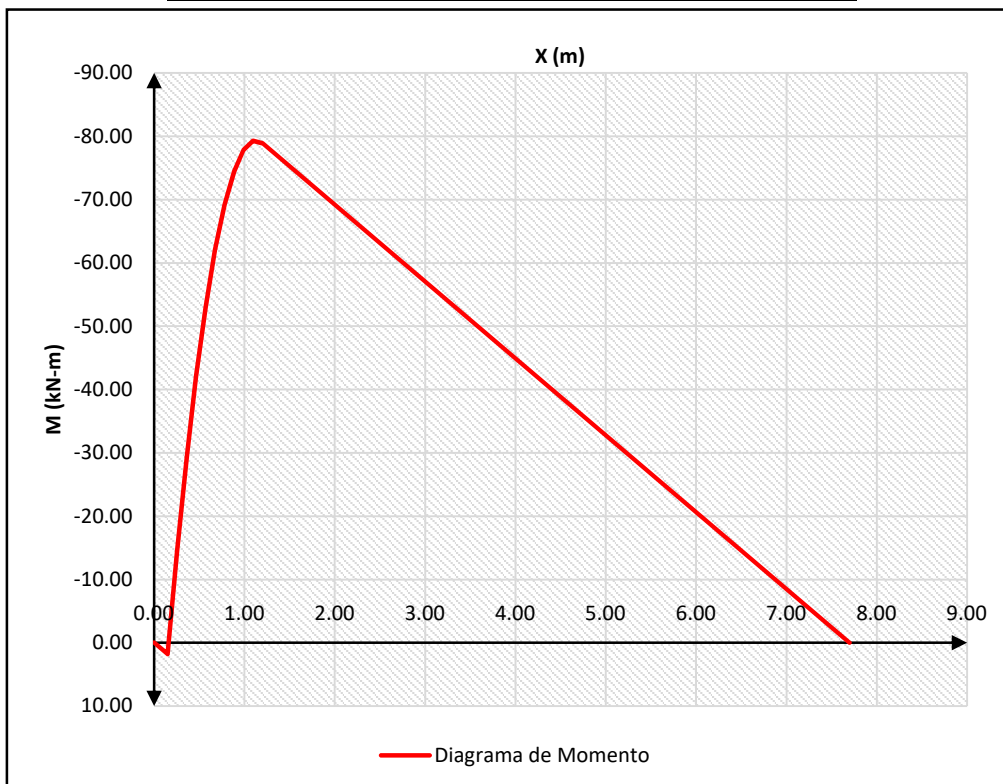


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: A-5

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	126.6	6.6%
P. P Zap (kN)	8.6	6.8%
Total	135.2	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.35	
Bz1 (m)	0.80	0.80
ΔR (kN)	4.54	4.5
Lz1 (m)	1.75	1.75
ESFUERZO TERRENO		
σ Neto (kN/m ²)	93.66	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	19.69	
Factor	1.50	
Mu (kN-m)	29.5	
d (m)	0.18	
h (m)	0.25	
ρ	0.003130	
As (mm ²)	451	Dis
Barra (ϕ)	#4	
Separación	0.23	
Repartición	#4 c/0.23	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	326	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: B-5

REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	288.9	6.7%
P. P Zapata	19.4	6.7%
Total	308.2	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.04	
Lz2 (m)	1.80	1.75
ΔR (kN)	4.54	4.5
Bz2 (m)	1.80	1.75
ESFUERZO TERRENO		
σ Neto (kN/m ²)	87.76	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
Mu (kN-m)	66.6	
d (m)	0.18	
h (m)	0.25	
ρ	0.003139	
As (mm ²)	1017	Dis
Barra (ϕ)	#4	
Separación	0.23	
Repartición	#4 c/0.23	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	66.6	
d (m)	0.16	
h (m)	0.25	
ρ	0.004016	
As (mm ²)	1156	Dis
Barra (ϕ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	

LOCALIZACIÓN DE COLUMNA: A-5

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	126.59	
Lz1 (m)	8.61	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	54.3	Ok
Vu (kN)	81.5	
ϕV_c (kN)	84.3	

LOCALIZACIÓN DE COLUMNA: B-5
REFERENCIA: Z-2

SOLICITACIONES		REV.
A2 (m²)	3.04	0.25
Lz2 (m)	1.80	
ΔR (kN)	4.54	
Bz2 (m)	1.80	
h borde (m)	0.25	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	396.2	
dv (m)	0.18	
Caso 1		
φVc (kN)	607.2	Ok
Caso 2		
αs	40	Ok
φVc (kN)	568.2	
Caso 3		
φVc (kN)	392.9	Rev
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	135.1	Ok
dv (m)	0.18	
φVc (kN)	189.8	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	139.8	Ok
dv (m)	0.16	
φVc (kN)	168.7	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m²)	1.69	mayor 2
√(A ₂ /A ₁)	4.33	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A-5 y B-5

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	7.70

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	32.0	Min
Factor	1.50	
Mu (kN-m)	48.0	
d (m)	0.41	
h (m)	0.50	
ρ	0.002596	
As req (mm²)	406	
Barra (φ)	#6	
Cantidad	2	
As (mm²)	568	
Análisis de cortante		Rev
Xo (m)	0.62	
V b. Col (kN)	77.4	
Vu (kN)	116.1	
φVc (kN)	72.0	
φVs (kN)	44.1	
X (m)	0.18	
ε (φ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.42	
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	24.6
0.15	-102.0
0.80	4.5
7.70	4.5
7.70	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.84
0.22	-4.8
0.28	-10.8
0.35	-16.0
0.41	-20.5
0.48	-24.3
0.54	-27.3
0.61	-29.6
0.67	-31.1
0.74	-31.9
0.80	-32.0
0.80	-32.0
7.70	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A-5 y B-5

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

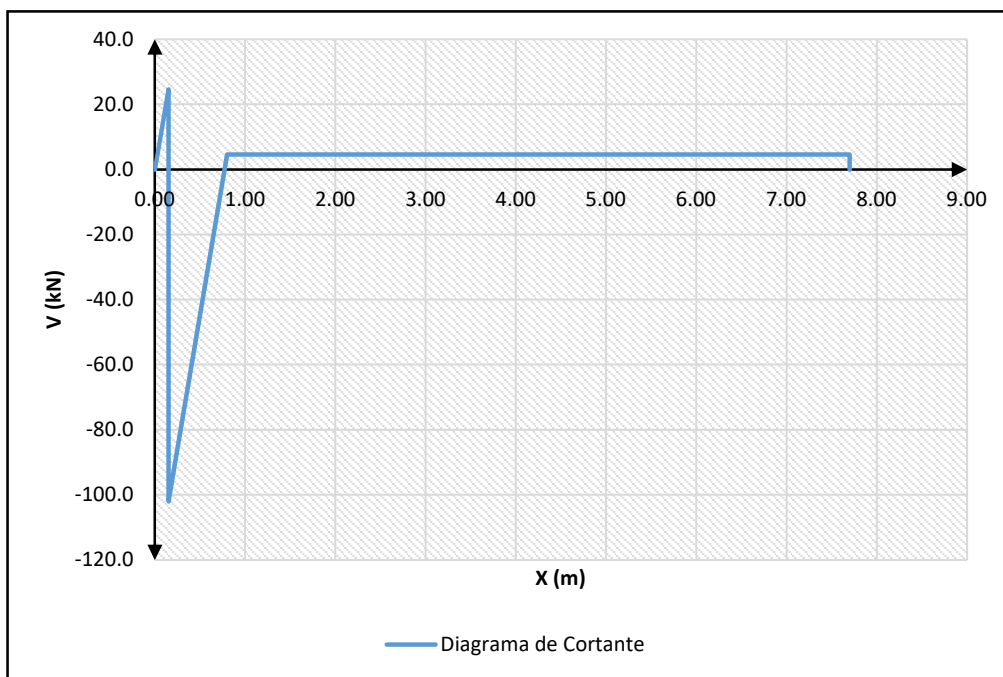
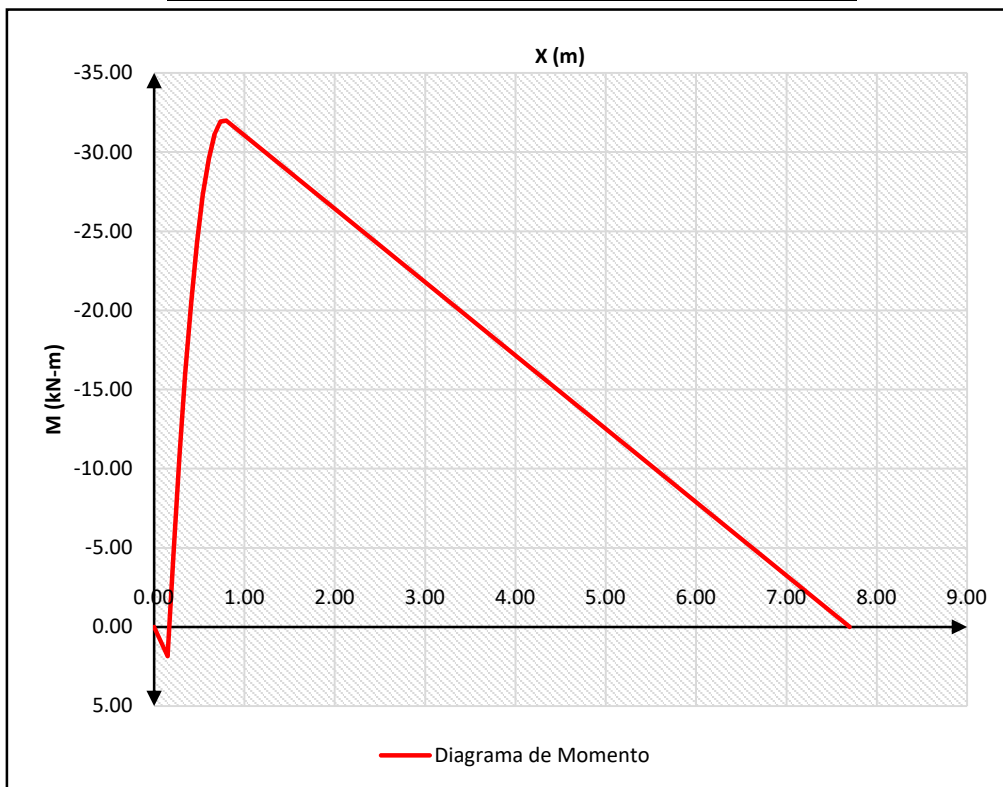


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: A'-2

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	114.6	6.7%
P. P Zap (kN)	7.7	6.7%
Total	122.3	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.22	
Bz1 (m)	0.80	0.80
ΔR (kN)	6.25	6.3
Lz1 (m)	1.60	1.6
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.41	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	15.95	
Factor	1.50	
Mu (kN-m)	23.9	
d (m)	0.18	
h (m)	0.25	
ρ	0.002517	
As (mm ²)	362	Dis
Barra (ϕ)	#4	
Separación	0.28	
Repartición	#4 c/0.28	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	293	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: A-2
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	305.5	9.4%
P. P Zapata	28.7	9.4%
Total	334.3	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.28	
Lz2 (m)	2.00	1.8
ΔR (kN)	6.25	6.3
Bz2 (m)	2.00	1.8
ESFUERZO TERRENO		
σ Neto (kN/m ²)	74.82	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	81.1	
d (m)	0.23	
h (m)	0.30	
ρ	0.002078	
As (mm ²)	1080	Min
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	81.1	
d (m)	0.16	
h (m)	0.25	
ρ	0.004419	
As (mm ²)	1414	Dis
Barra (ϕ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

LOCALIZACIÓN DE COLUMNA: A'-2

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	114.59	
Lz1 (m)	7.68	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	49.1	Ok
Vu (kN)	73.6	
ϕV_c (kN)	84.3	

LOCALIZACIÓN DE COLUMNA: A-2
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.28	0.30
Lz2 (m)	2.00	
ΔR (kN)	6.25	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	417.4	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	139.2	
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	154.9	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A'-2 y A-2

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	5.14

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	28.1	
Factor	1.50	
Mu (kN-m)	42.1	
d (m)	0.41	
h (m)	0.50	
ρ	0.002269	
As req (mm²)	406	
Barra (ϕ)	#6	Min
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.61	
V b. Col (kN)	69.3	
Vu (kN)	103.9	
ϕV_c (kN)	72.0	
ϕV_s (kN)	31.9	
X (m)	0.14	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.58	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	22.7
0.15	-91.9
0.80	6.3
5.14	6.3
5.14	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.70
0.22	-4.2
0.28	-9.6
0.35	-14.3
0.41	-18.4
0.48	-21.7
0.54	-24.3
0.61	-26.3
0.67	-27.6
0.74	-28.2
0.80	-28.1
0.80	-28.1
5.14	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A'-2 y A-2

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

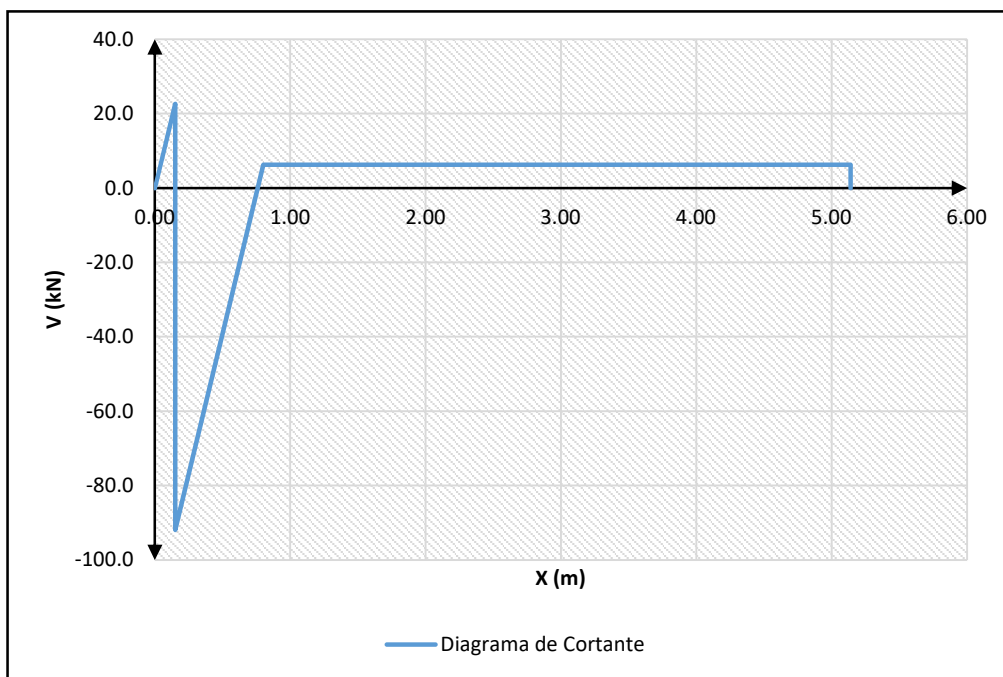
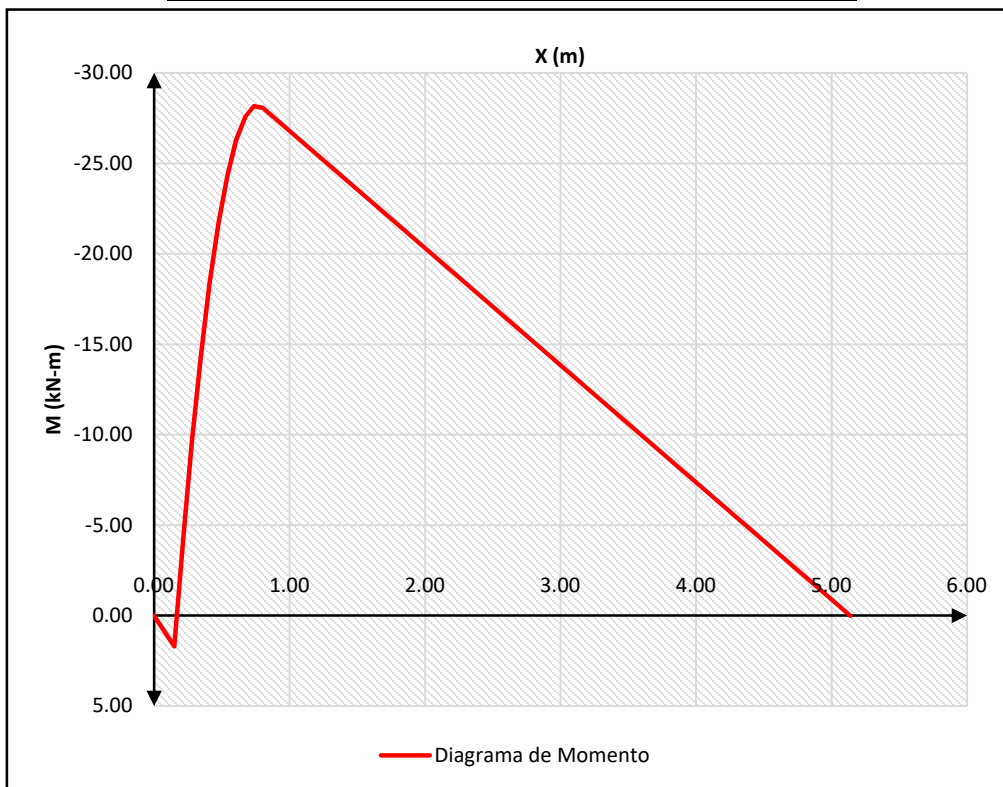


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: A'-1

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	149.9	6.8%
P. P Zap (kN)	9.9	6.6%
Total	159.8	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.60	
Bz1 (m)	1.00	0.90
ΔR (kN)	8.81	7.49
Lz1 (m)	1.70	1.85
ESFUERZO TERRENO		
σ Neto (kN/m ²)	93.33	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	22.87	
Factor	1.50	
Mu (kN-m)	34.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.002899	
As (mm ²)	522	Dis
Barra (ϕ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	315	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: A-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	386.5	7.5%
P. P Zapata	29.0	7.5%
Total	415.5	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	4.07	
Lz2 (m)	2.00	2.00
ΔR (kN)	8.81	7.49
Bz2 (m)	2.00	2.05
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.43	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	102.3	
d (m)	0.23	
h (m)	0.30	
ρ	0.002641	
As (mm ²)	1215	Dis
Barra (ϕ)	#4	
Separación	0.21	
Repartición	#4 c/0.21	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	102.3	
d (m)	0.16	
h (m)	0.25	
ρ	0.005665	
As (mm ²)	1813	Dis
Barra (ϕ)	#4	
Separación	0.14	
Repartición	#4 c/0.14	

LOCALIZACIÓN DE COLUMNA: A'-1

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	149.86	
Lz1 (m)	9.89	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	65.3	Ok
Vu (kN)	98.0	
ϕV_c (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: A-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	4.07	
Lz2 (m)	2.00	0.30
ΔR (kN)	8.81	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	526.8	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	175.6	Ok
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	195.5	Rev
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A'-1 y A-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	6.70

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	51.5	
Factor	1.50	
Mu (kN-m)	77.3	
d (m)	0.41	
h (m)	0.50	
ρ	0.004267	
As req (mm²)	525	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.79	
V b. Col (kN)	102.3	
Vu (kN)	153.4	
ϕV_c (kN)	72.0	
ϕV_s (kN)	81.4	
X (m)	0.34	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.23	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	23.8
0.15	-126.1
1.00	8.8
6.70	8.8
6.70	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.78
0.24	-9.0
0.32	-18.6
0.41	-27.0
0.49	-34.2
0.58	-40.2
0.66	-44.9
0.75	-48.4
0.83	-50.7
0.92	-51.7
1.00	-51.5
1.00	-51.5
6.70	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A'-1 y A-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

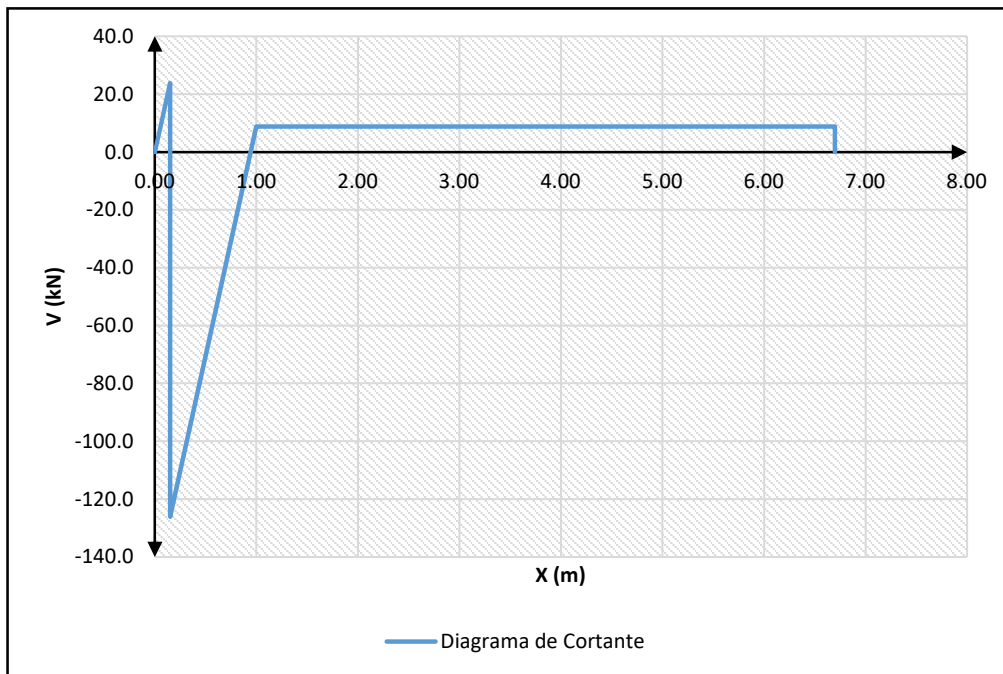
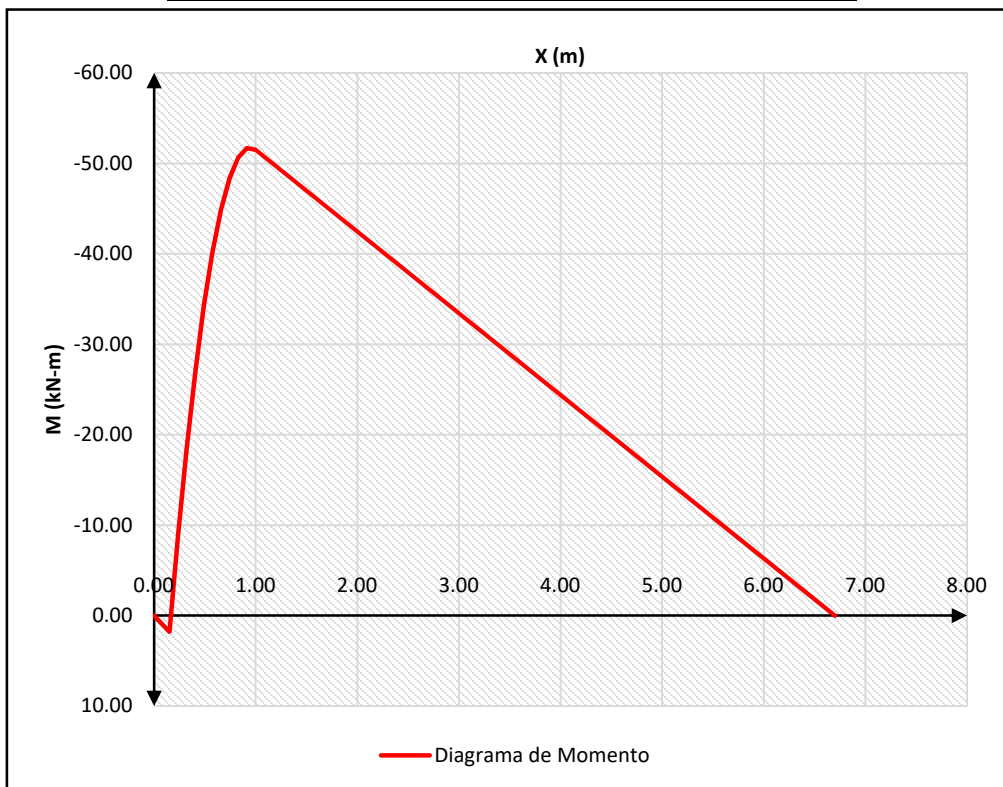


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: A-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	142.6	6.9%
P. P Zap (kN)	9.6	6.7%
Total	152.1	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.52	
Bz1 (m)	1.00	0.85
ΔR (kN)	12.98	10.02
Lz1 (m)	1.65	1.90
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.26	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	21.47	
Factor	1.50	
Mu (kN-m)	32.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.002717	
As (mm ²)	489	Dis
Barra (ϕ)	#4	
Separación	0.26	
Repartición	#4 c/0.26	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	304	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: A-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	386.5	7.5%
P. P Zapata	29.0	7.5%
Total	415.5	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	4.03	
Lz2 (m)	2.00	2.00
ΔR (kN)	12.98	10.02
Bz2 (m)	2.00	2.00
ESFUERZO TERRENO		
σ Neto (kN/m ²)	93.39	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	101.2	
d (m)	0.23	
h (m)	0.30	
ρ	0.002611	
As (mm ²)	1201	Dis
Barra (ϕ)	#4	
Separación	0.21	
Repartición	#4 c/0.21	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	101.2	
d (m)	0.16	
h (m)	0.25	
ρ	0.005597	
As (mm ²)	1791	Dis
Barra (ϕ)	#4	
Separación	0.14	
Repartición	#4 c/0.14	

LOCALIZACIÓN DE COLUMNA: A-0

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	142.55	
Lz1 (m)	9.55	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	63.6	Ok
Vu (kN)	95.4	
ϕV_c (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: A-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	4.03	0.30
Lz2 (m)	2.00	
ΔR (kN)	12.98	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	Ok
bb "2" (m)	0.53	
Vu (kN)	521.0	
dv (m)	0.23	
Caso 1		
ϕV_c (kN)	856.7	Ok
Caso 2		
α_s	40	
ϕV_c (kN)	883.9	
Caso 3		
ϕV_c (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	173.7	
dv (m)	0.23	
ϕV_c (kN)	269.4	Ok
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	193.3	
dv (m)	0.16	
ϕV_c (kN)	187.4	
		Rev
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A_1 (m ²)	0.09	Ok
ϕP_n (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A_2 (m ²)	1.95	
$\sqrt{A_2/A_1}$	4.65	
ϕP_n (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A-0 y A-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	46.7	Dis
Factor	1.50	
Mu (kN-m)	70.1	
d (m)	0.41	
h (m)	0.50	
ρ	0.003852	
As req (mm²)	474	
Barra (φ)	#6	
Cantidad	2	
As (mm²)	568	
Análisis de cortante		Rev
Xo (m)	0.77	
V b. Col (kN)	95.9	
Vu (kN)	143.8	
φVc (kN)	72.0	
φVs (kN)	71.8	
X (m)	0.31	
ε (φ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.26	
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	23.3
0.15	-119.2
1.00	13.0
4.45	13.0
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.75
0.24	-8.4
0.32	-17.5
0.41	-25.4
0.49	-32.1
0.58	-37.6
0.66	-41.8
0.75	-44.9
0.83	-46.7
0.92	-47.3
1.00	-46.7
1.00	-46.7
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS A-0 y A-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

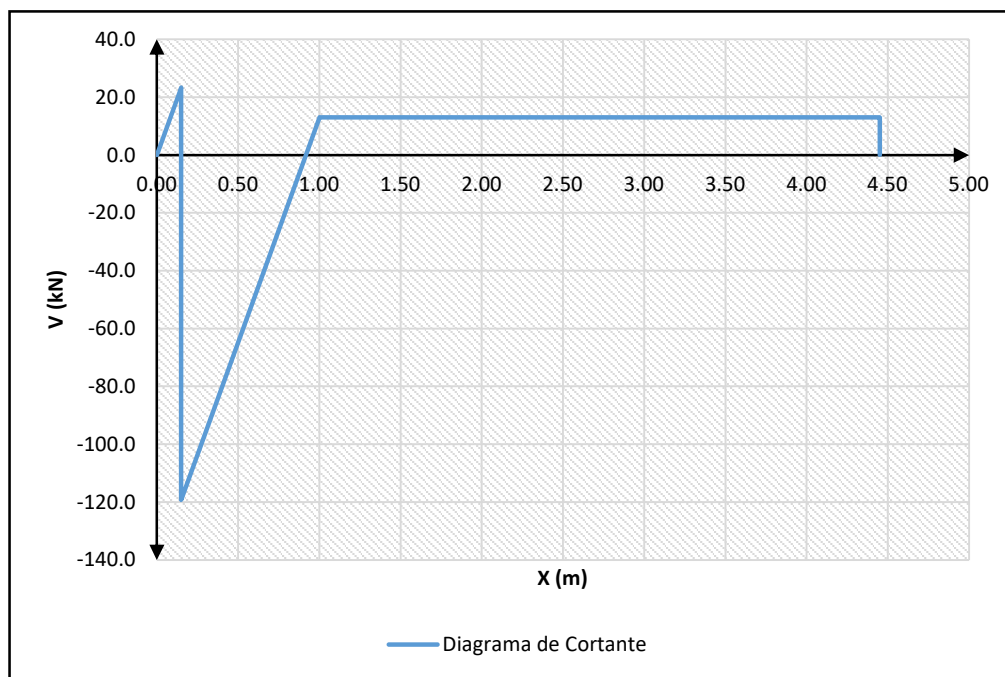
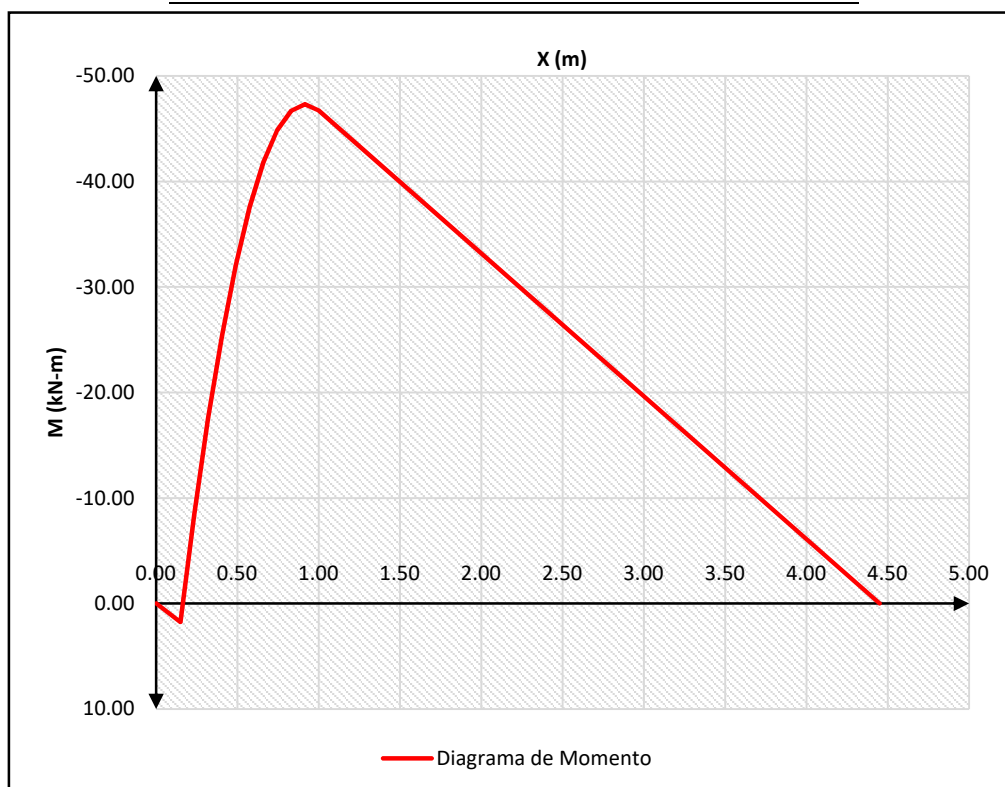


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: B-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	134.0	6.9%
P. P Zap (kN)	9.2	6.9%
Total	143.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m²)	100

DIMENSIONES		REV.
A1 (m²)	1.43	
Bz1 (m)	1.00	0.85
ΔR (kN)	12.23	9.43
Lz1 (m)	1.55	1.80
ESFUERZO TERRENO		
σ Neto (kN/m²)	94.33	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	18.42	
Factor	1.50	
Mu (kN-m)	27.6	
d (m)	0.18	
h (m)	0.25	
ρ	0.002320	
As (mm²)	450	Min
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm²)	281	
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: B-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	373.4	7.7%
P. P Zapata	28.8	7.7%
Total	402.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m²)	100

SOLICITACIONES		REV.
A2 (m²)	3.90	
Lz2 (m)	2.00	1.95
ΔR (kN)	12.23	9.43
Bz2 (m)	2.00	2.00
ESFUERZO TERRENO		
σ Neto (kN/m²)	90.30	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	97.9	
d (m)	0.23	
h (m)	0.30	
ρ	0.002522	
As (mm²)	1160	Dis
Barra (φ)	#4	
Separación	0.22	
Repartición	#4 c/0.22	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	97.9	
d (m)	0.16	
h (m)	0.25	
ρ	0.005399	
As (mm²)	1728	Dis
Barra (φ)	#4	
Separación	0.15	
Repartición	#4 c/0.15	

LOCALIZACIÓN DE COLUMNA: B-0

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	133.99	
Lz1 (m)	9.25	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	59.0	Ok
Vu (kN)	88.4	
φVc (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: B-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.90	
Lz2 (m)	2.00	0.30
ΔR (kN)	12.23	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	503.7	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	167.9	
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	186.9	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS B-0 y B-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	44.0	Dis
Factor	1.50	
Mu (kN-m)	66.0	
d (m)	0.41	
h (m)	0.50	
ρ	0.003617	
As req (mm²)	445	
Barra (φ)	#6	
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.77	Rev
V b. Col (kN)	90.1	
Vu (kN)	135.2	
φVc (kN)	72.0	
φVs (kN)	63.2	
X (m)	0.29	
ε (φ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.29	
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	21.9
0.15	-112.1
1.00	12.2
4.45	12.2
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.64
0.24	-7.9
0.32	-16.5
0.41	-23.9
0.49	-30.2
0.58	-35.4
0.66	-39.4
0.75	-42.3
0.83	-44.0
0.92	-44.6
1.00	-44.0
1.00	-44.0
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS B-0 y B-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

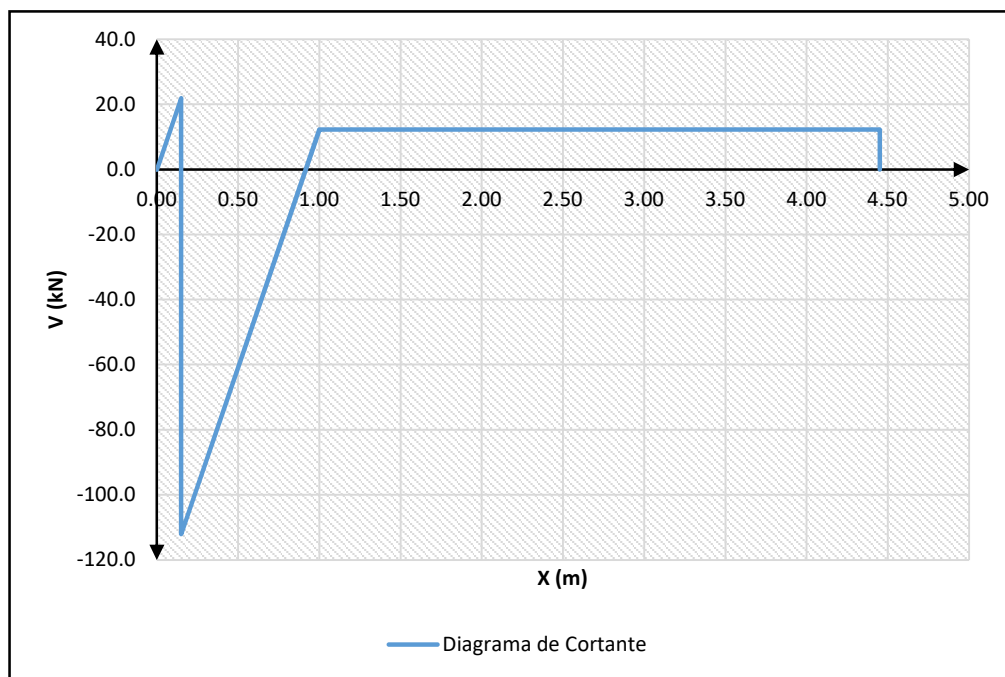
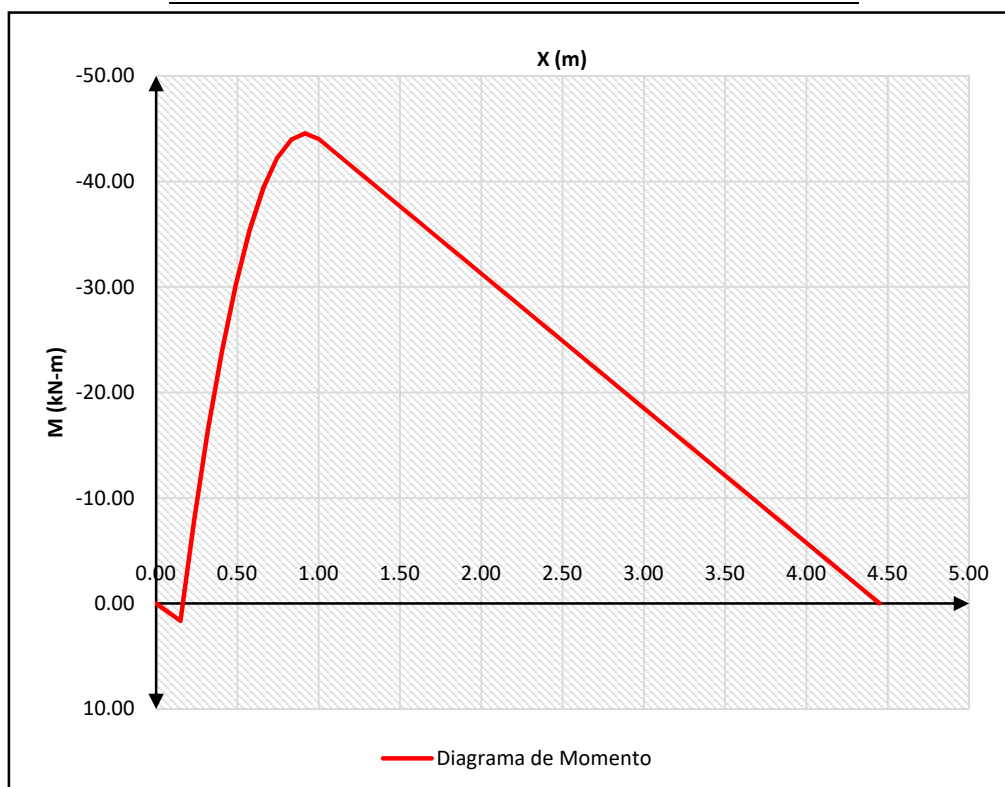


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: C-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	125.5	6.9%
P. P Zap (kN)	8.7	6.9%
Total	134.2	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.34	
Bz1 (m)	1.00	0.80
ΔR (kN)	11.46	7.99
Lz1 (m)	1.45	1.80
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.47	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	15.62	
Factor	1.50	
Mu (kN-m)	23.4	
d (m)	0.18	
h (m)	0.25	
ρ	0.001958	
As (mm ²)	450	Min
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	259	
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: C-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	348.1	8.3%
P. P Zapata	28.9	8.3%
Total	377.0	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.66	
Lz2 (m)	2.00	1.90
ΔR (kN)	11.46	7.99
Bz2 (m)	2.00	1.90
ESFUERZO TERRENO		
σ Neto (kN/m ²)	84.16	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	91.2	
d (m)	0.23	
h (m)	0.30	
ρ	0.002345	
As (mm ²)	1080	Min
Barra (φ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	91.2	
d (m)	0.16	
h (m)	0.25	
ρ	0.005007	
As (mm ²)	1602	Dis
Barra (φ)	#4	
Separación	0.16	
Repartición	#4 c/0.16	

LOCALIZACIÓN DE COLUMNA: C-0

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	125.53	
Lz1 (m)	8.66	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	54.3	Ok
Vu (kN)	81.5	
φVc (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: C-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.66	0.30
Lz2 (m)	2.00	
ΔR (kN)	11.46	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	469.5	
dv (m)	0.23	
Caso 1		Ok
ϕV_c (kN)	856.7	
Caso 2		Ok
α_s	40	
ϕV_c (kN)	883.9	Ok
Caso 3		Ok
ϕV_c (kN)	554.3	
Análisis en una direcciones		Ok
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	156.5	
dv (m)	0.23	
ϕV_c (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	174.2	
dv (m)	0.16	
ϕV_c (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A_1 (m ²)	0.09	Ok
ϕP_n (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A_2 (m ²)	1.95	
$\sqrt{A_2/A_1}$	4.65	
ϕP_n (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS C-0 y C-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	41.2	
Factor	1.50	
Mu (kN-m)	61.9	
d (m)	0.41	
h (m)	0.50	
ρ	0.003379	
As req (mm²)	416	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.77	
V b. Col (kN)	84.4	
Vu (kN)	126.7	
ϕV_c (kN)	72.0	
ϕV_s (kN)	54.6	
X (m)	0.27	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.34	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	20.5
0.15	-105.0
1.00	11.5
4.45	11.5
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.54
0.24	-7.4
0.32	-15.5
0.41	-22.4
0.49	-28.3
0.58	-33.1
0.66	-36.9
0.75	-39.6
0.83	-41.2
0.92	-41.8
1.00	-41.2
1.00	-41.2
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS C-0 y C-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

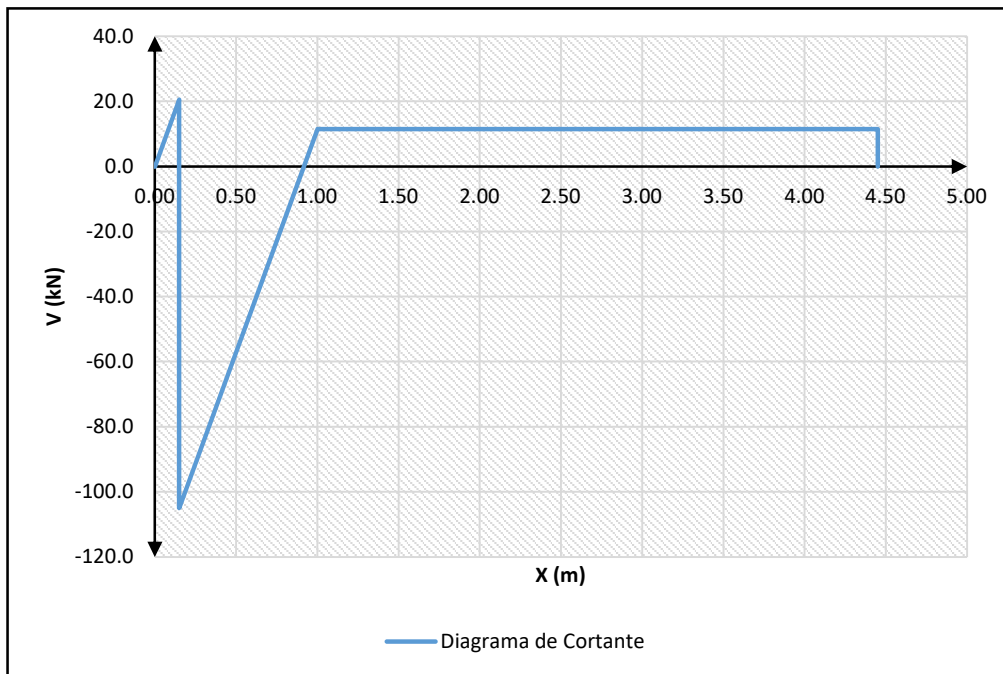
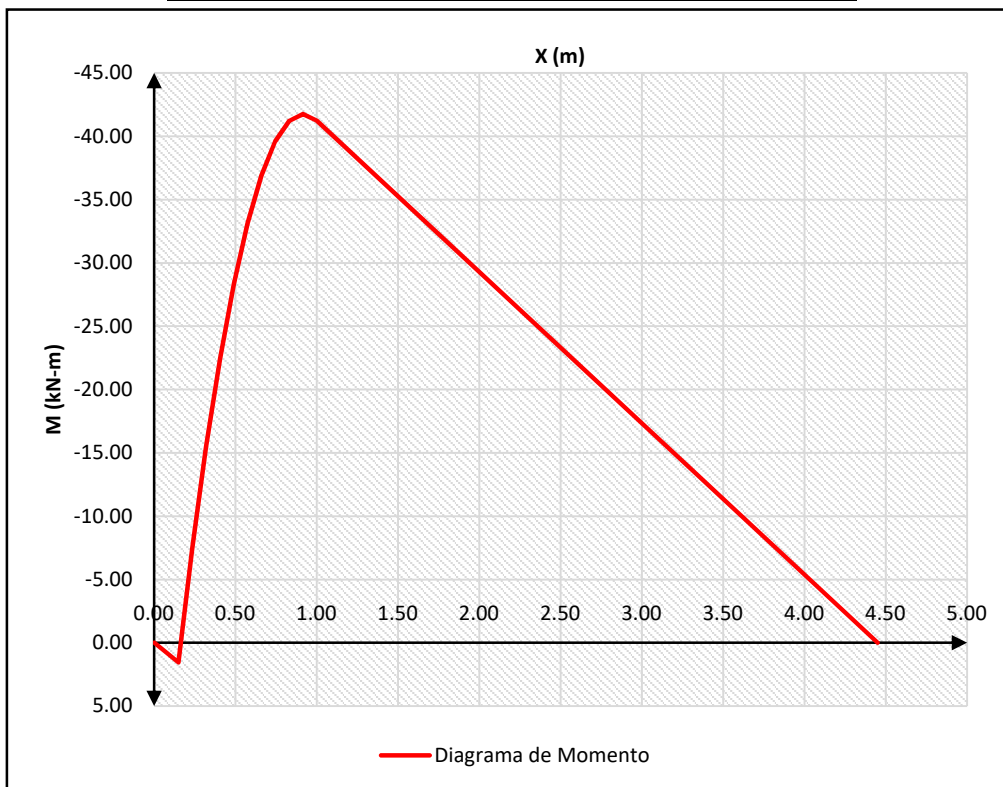


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: D-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	128.1	7.0%
P. P Zap (kN)	9.0	7.0%
Total	137.0	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.37	
Bz1 (m)	1.00	0.85
ΔR (kN)	11.70	9.02
Lz1 (m)	1.50	1.70
ESFUERZO TERRENO		
σ Neto (kN/m ²)	93.16	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	16.77	
Factor	1.50	
Mu (kN-m)	25.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.002106	
As (mm ²)	450	Min
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	270	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: D-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	353.5	8.1%
P. P Zapata	28.6	8.1%
Total	382.2	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.70	
Lz2 (m)	2.00	1.90
ΔR (kN)	11.70	9.02
Bz2 (m)	2.00	1.95
ESFUERZO TERRENO		
σ Neto (kN/m ²)	85.46	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	92.6	
d (m)	0.23	
h (m)	0.30	
ρ	0.002383	
As (mm ²)	1096	Dis
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	92.6	
d (m)	0.16	
h (m)	0.25	
ρ	0.005090	
As (mm ²)	1629	Dis
Barra (ϕ)	#4	
Separación	0.16	
Repartición	#4 c/0.16	

LOCALIZACIÓN DE COLUMNA: D-0

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	128.05	
Lz1 (m)	8.96	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	55.9	Ok
Vu (kN)	83.8	
ϕVc (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: D-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.70	0.30
Lz2 (m)	2.00	
ΔR (kN)	11.70	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	476.8	
dv (m)	0.23	
Caso 1		Ok
φVc (kN)	856.7	
Caso 2		Ok
αs	40	
φVc (kN)	883.9	Ok
Caso 3		Ok
φVc (kN)	554.3	
Análisis en una direcciones		Ok
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	159.0	
dv (m)	0.23	
φVc (kN)	269.4	Ok
Sentido Bz1 (Sentido Longitudinal)		Ok
Vu (kN)	176.9	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		Ok
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A ₂ (m ²)	1.95	
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS D-0 y D-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	42.1	
Factor	1.50	
Mu (kN-m)	63.2	
d (m)	0.41	
h (m)	0.50	
ρ	0.003453	
As req (mm²)	425	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.77	
V b. Col (kN)	86.1	
Vu (kN)	129.2	
ϕV_c (kN)	72.0	
ϕV_s (kN)	57.2	
X (m)	0.27	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.32	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	21.0
0.15	-107.1
1.00	11.7
4.45	11.7
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.57
0.24	-7.6
0.32	-15.8
0.41	-22.9
0.49	-28.9
0.58	-33.8
0.66	-37.7
0.75	-40.4
0.83	-42.1
0.92	-42.6
1.00	-42.1
1.00	-42.1
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS D-0 y D-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

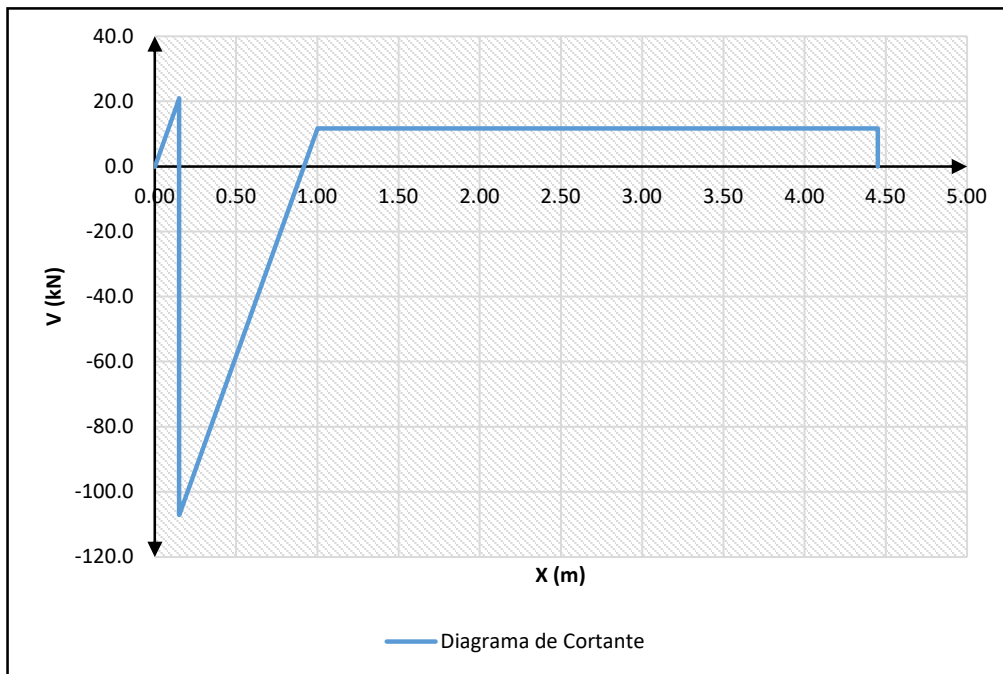
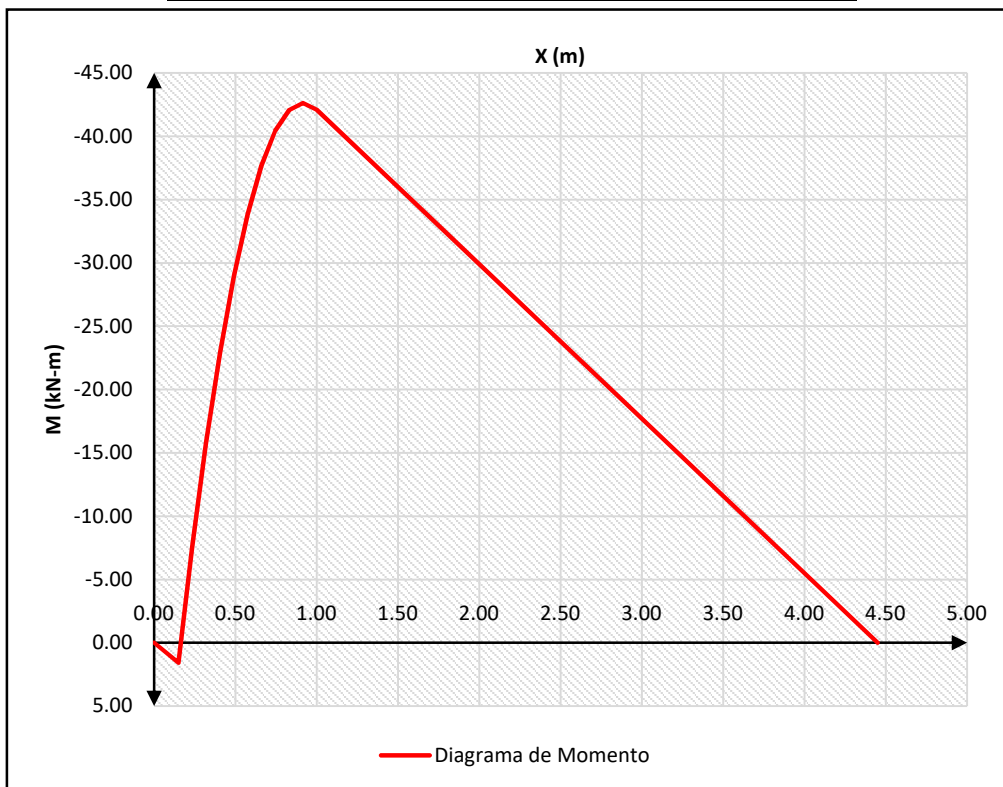


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: E-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	127.8	7.0%
P. P Zap (kN)	8.9	7.0%
Total	136.8	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.37	
Bz1 (m)	1.00	0.85
ΔR (kN)	11.67	9.01
Lz1 (m)	1.50	1.70
ESFUERZO TERRENO		
σ Neto (kN/m ²)	92.99	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	16.74	
Factor	1.50	
Mu (kN-m)	25.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.002102	
As (mm ²)	450	Min
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	270	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: E-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	352.4	8.2%
P. P Zapata	28.9	8.2%
Total	381.3	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.70	
Lz2 (m)	2.00	1.90
ΔR (kN)	11.67	9.01
Bz2 (m)	2.00	1.95
ESFUERZO TERRENO		
σ Neto (kN/m ²)	85.18	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	92.3	
d (m)	0.23	
h (m)	0.30	
ρ	0.002374	
As (mm ²)	1092	Dis
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	92.3	
d (m)	0.16	
h (m)	0.25	
ρ	0.005072	
As (mm ²)	1623	Dis
Barra (ϕ)	#4	
Separación	0.16	
Repartición	#4 c/0.16	

LOCALIZACIÓN DE COLUMNA: E-0

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	127.81	
Lz1 (m)	8.95	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	55.8	Ok
Vu (kN)	83.7	
ϕV_c (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: E-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.70	0.30
Lz2 (m)	2.00	
ΔR (kN)	11.67	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	475.2	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	158.4	Ok
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	176.3	Ok
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS E-0 y E-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	42.0	Dis
Factor	1.50	
Mu (kN-m)	63.0	
d (m)	0.41	
h (m)	0.50	
ρ	0.003447	
As req (mm²)	424	
Barra (φ)	#6	
Cantidad	2	
As (mm²)	568	
Análisis de cortante		Rev
Xo (m)	0.77	
V b. Col (kN)	86.0	
Vu (kN)	128.9	
φVc (kN)	72.0	
φVs (kN)	56.9	
X (m)	0.27	
ε (φ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.32	
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	20.9
0.15	-106.9
1.00	11.7
4.45	11.7
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.57
0.24	-7.6
0.32	-15.8
0.41	-22.9
0.49	-28.9
0.58	-33.8
0.66	-37.6
0.75	-40.3
0.83	-42.0
0.92	-42.6
1.00	-42.0
1.00	-42.0
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS E-0 y E-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

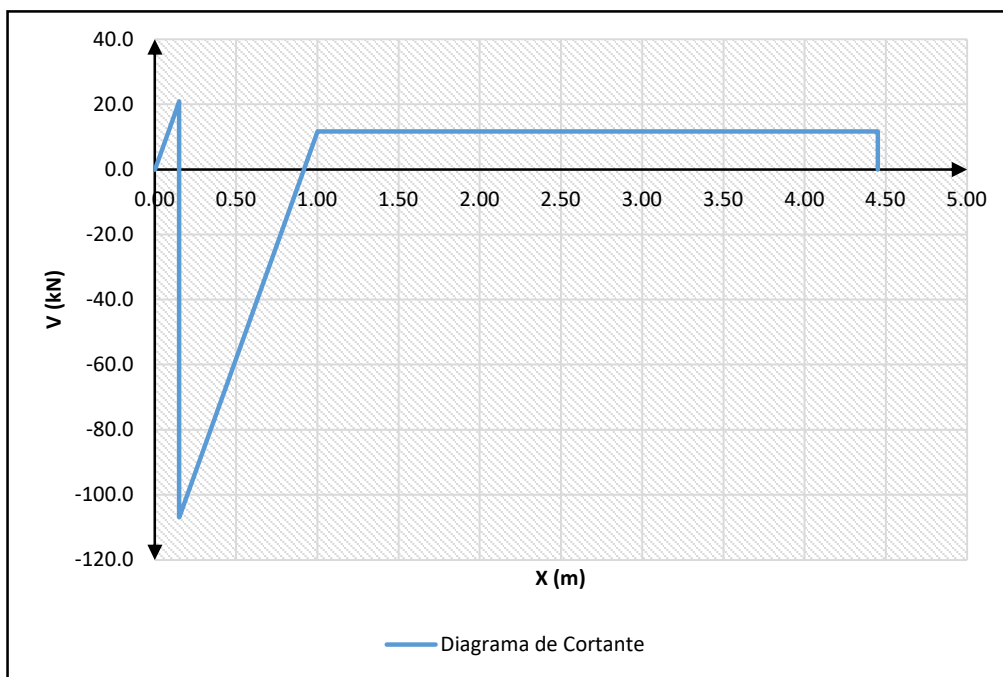
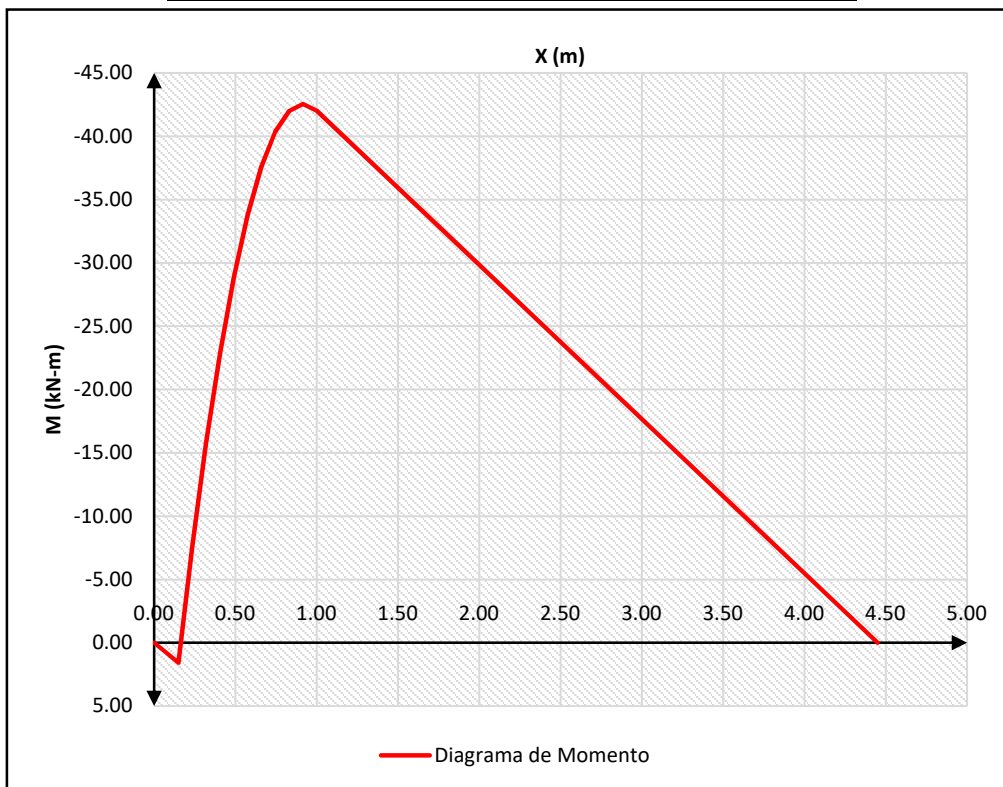


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: F-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	128.6	7.0%
P. P Zap (kN)	9.0	7.0%
Total	137.6	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m²)	100

DIMENSIONES		REV.
A1 (m²)	1.38	
Bz1 (m)	1.00	0.85
ΔR (kN)	11.74	9.06
Lz1 (m)	1.50	1.70
ESFUERZO TERRENO		
σ Neto (kN/m²)	93.54	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	16.84	
Factor	1.50	
Mu (kN-m)	25.3	
d (m)	0.18	
h (m)	0.25	
ρ	0.002115	
As (mm²)	450	Min
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm²)	270	
Barra (φ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: F-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	353.1	8.2%
P. P Zapata	29.0	8.2%
Total	382.1	
MATERIALES		
f _c (Mpa)	21.1	
f _y (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m²)	100

SOLICITACIONES		REV.
A2 (m²)	3.70	
Lz2 (m)	2.00	1.90
ΔR (kN)	11.74	9.06
Bz2 (m)	2.00	1.95
ESFUERZO TERRENO		
σ Neto (kN/m²)	85.34	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	92.5	
d (m)	0.23	
h (m)	0.30	
ρ	0.002379	
As (mm²)	1094	Dis
Barra (φ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	92.5	
d (m)	0.16	
h (m)	0.25	
ρ	0.005082	
As (mm²)	1626	Dis
Barra (φ)	#4	
Separación	0.16	
Repartición	#4 c/0.16	

LOCALIZACIÓN DE COLUMNA: F-0

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	128.56	
Lz1 (m)	9.00	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	56.1	Ok
Vu (kN)	84.2	
φVc (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: F-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.70	0.30
Lz2 (m)	2.00	
ΔR (kN)	11.74	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	476.1	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	158.7	
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	176.7	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS F-0 y F-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	42.3	
Factor	1.50	
Mu (kN-m)	63.4	
d (m)	0.41	
h (m)	0.50	
ρ	0.003468	
As req (mm²)	427	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.77	
V b. Col (kN)	86.5	
Vu (kN)	129.7	
ϕV_c (kN)	72.0	
ϕV_s (kN)	57.7	
X (m)	0.27	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.32	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	21.0
0.15	-107.5
1.00	11.7
4.45	11.7
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.58
0.24	-7.6
0.32	-15.9
0.41	-23.0
0.49	-29.0
0.58	-34.0
0.66	-37.8
0.75	-40.6
0.83	-42.2
0.92	-42.8
1.00	-42.3
1.00	-42.3
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS F-0 y F-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

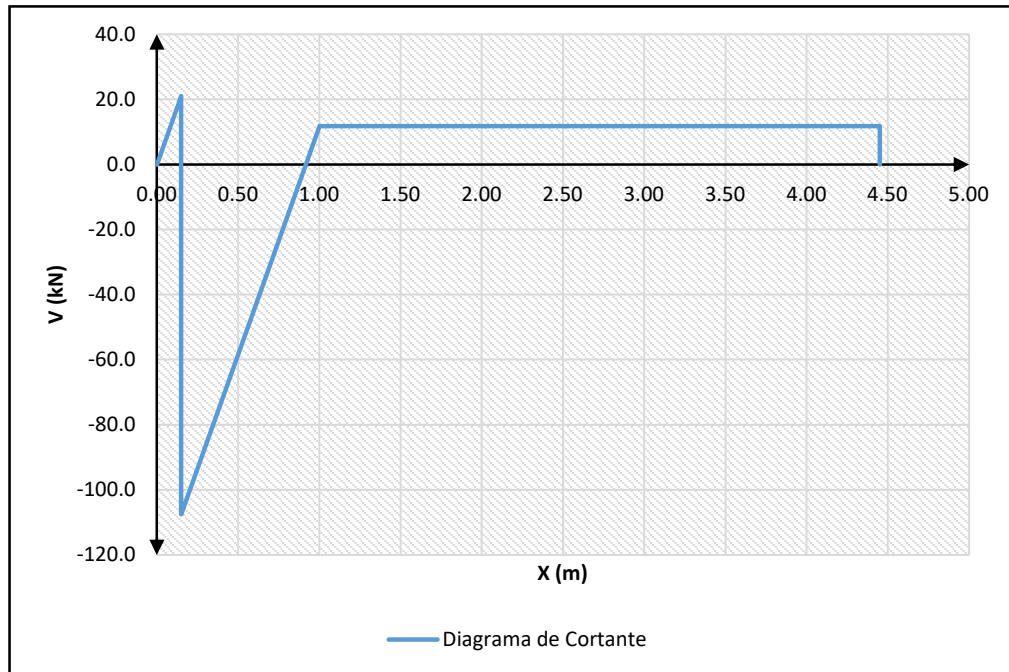
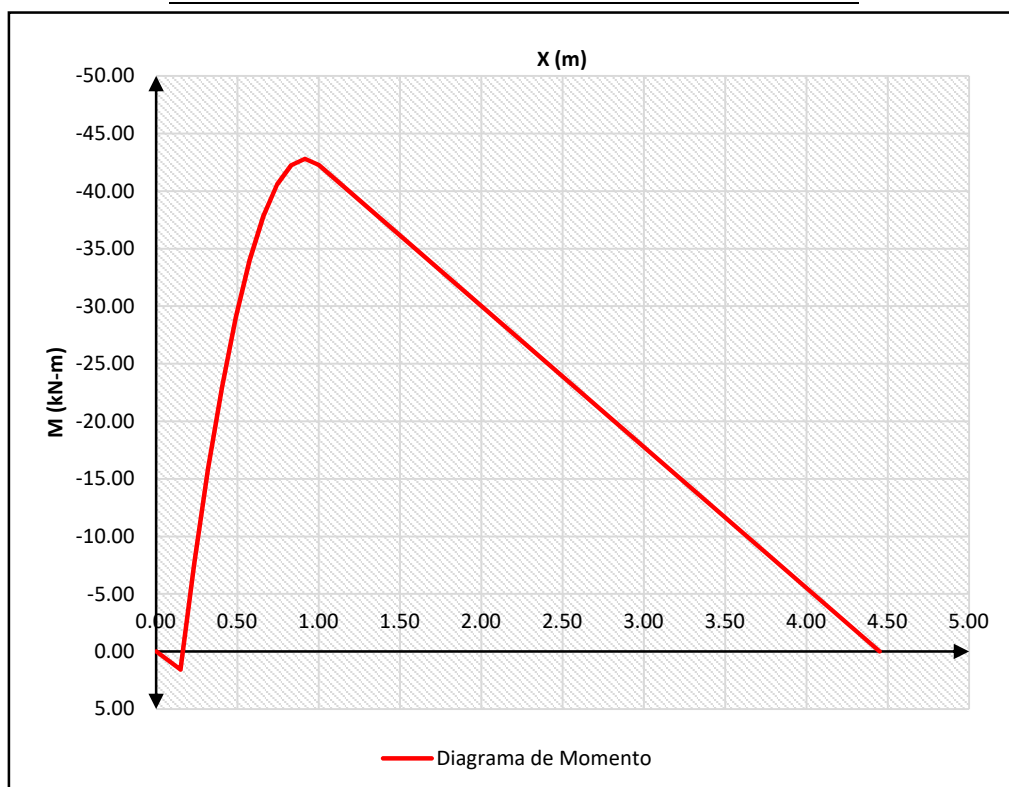


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: G-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	127.5	7.1%
P. P Zap (kN)	9.1	7.1%
Total	136.5	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.37	
Bz1 (m)	1.00	0.85
ΔR (kN)	11.66	8.99
Lz1 (m)	1.50	1.70
ESFUERZO TERRENO		
σ Neto (kN/m ²)	92.76	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	16.70	
Factor	1.50	
Mu (kN-m)	25.0	
d (m)	0.18	
h (m)	0.25	
ρ	0.002097	
As (mm ²)	450	Min
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	270	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: G-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	350.6	8.2%
P. P Zapata	28.8	8.2%
Total	379.4	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.68	
Lz2 (m)	2.00	1.90
ΔR (kN)	11.66	8.99
Bz2 (m)	2.00	1.95
ESFUERZO TERRENO		
σ Neto (kN/m ²)	84.74	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	91.8	
d (m)	0.23	
h (m)	0.30	
ρ	0.002362	
As (mm ²)	1087	Dis
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	91.8	
d (m)	0.16	
h (m)	0.25	
ρ	0.005044	
As (mm ²)	1614	Dis
Barra (ϕ)	#4	
Separación	0.16	
Repartición	#4 c/0.16	

LOCALIZACIÓN DE COLUMNA: G-0

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	127.49	
Lz1 (m)	9.05	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	55.7	Ok
Vu (kN)	83.5	
φVc (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: G-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.68	0.30
Lz2 (m)	2.00	
ΔR (kN)	11.66	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	472.8	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	157.6	Ok
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	175.4	Ok
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS G-0 y G-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	42.0	
Factor	1.50	
Mu (kN-m)	62.9	
d (m)	0.41	
h (m)	0.50	
ρ	0.003441	
As req (mm²)	423	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.77	
V b. Col (kN)	85.7	
Vu (kN)	128.6	
ϕV_c (kN)	72.0	
ϕV_s (kN)	56.6	
X (m)	0.27	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.32	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	20.9
0.15	-106.6
1.00	11.7
4.45	11.7
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.57
0.24	-7.6
0.32	-15.7
0.41	-22.8
0.49	-28.8
0.58	-33.7
0.66	-37.5
0.75	-40.3
0.83	-41.9
0.92	-42.5
1.00	-42.0
1.00	-42.0
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS G-0 y G-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

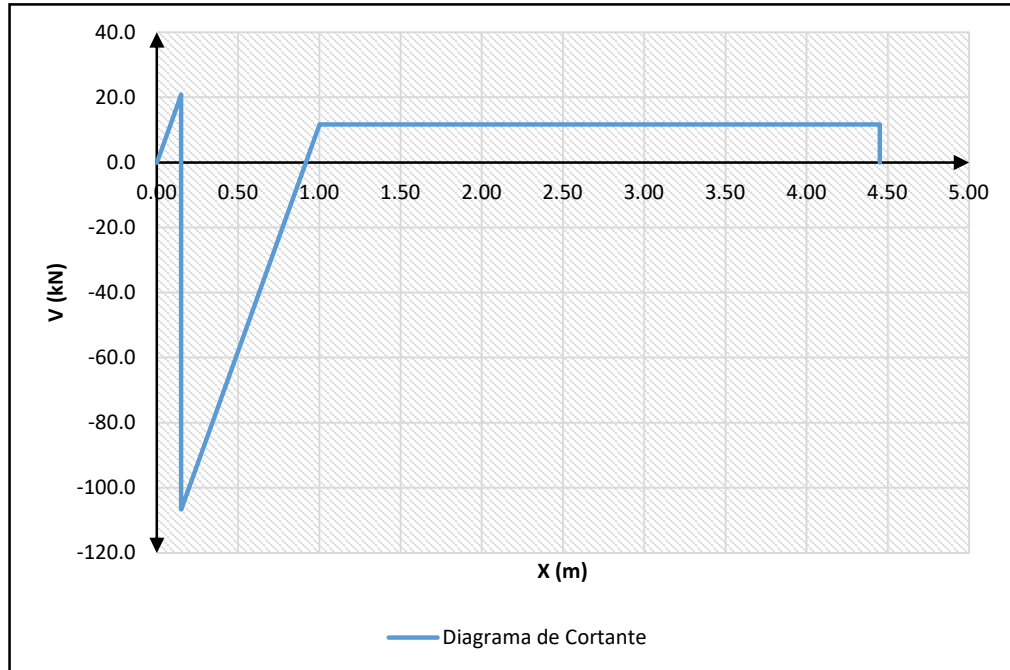
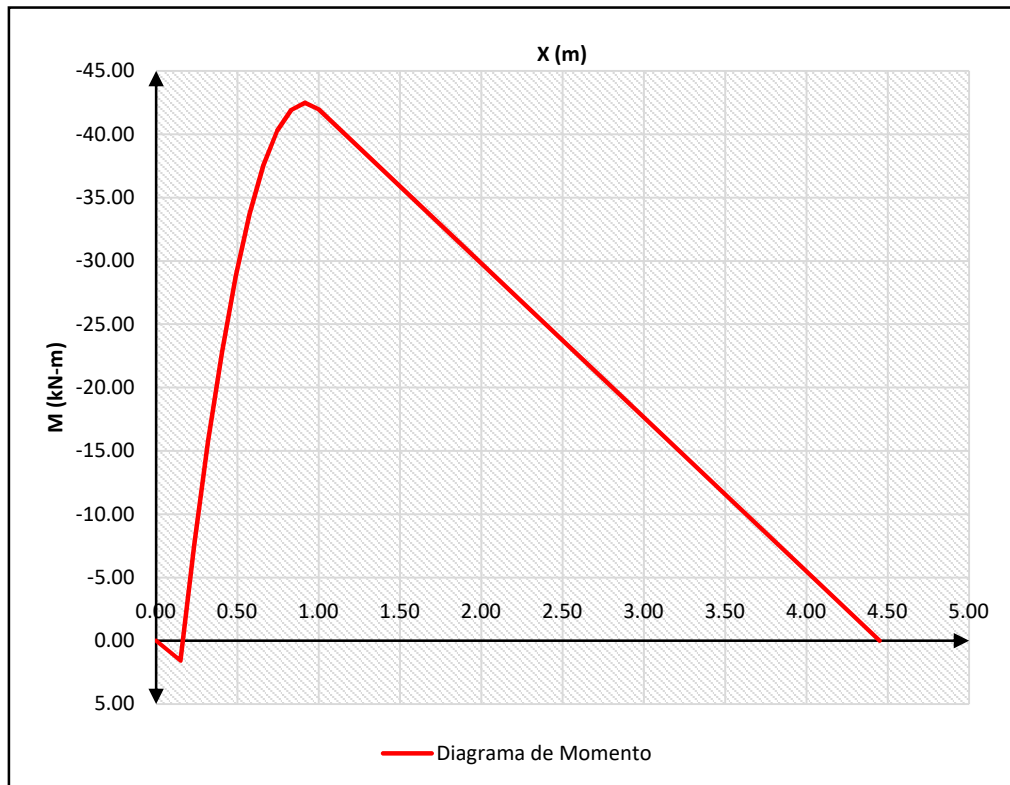


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: H-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	134.3	6.9%
P. P Zap (kN)	9.3	6.9%
Total	143.5	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.44	
Bz1 (m)	1.00	0.85
ΔR (kN)	12.25	9.45
Lz1 (m)	1.55	1.80
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.52	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	18.46	
Factor	1.50	
Mu (kN-m)	27.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.002324	
As (mm ²)	450	Min
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	281	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: H-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	363.9	7.9%
P. P Zapata	28.7	7.9%
Total	392.6	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.80	
Lz2 (m)	2.00	1.95
ΔR (kN)	12.25	9.45
Bz2 (m)	2.00	1.95
ESFUERZO TERRENO		
σ Neto (kN/m ²)	87.90	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	95.3	
d (m)	0.23	
h (m)	0.30	
ρ	0.002453	
As (mm ²)	1128	Dis
Barra (ϕ)	#4	
Separación	0.23	
Repartición	#4 c/0.23	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	95.3	
d (m)	0.16	
h (m)	0.25	
ρ	0.005246	
As (mm ²)	1679	Dis
Barra (ϕ)	#4	
Separación	0.15	
Repartición	#4 c/0.15	

LOCALIZACIÓN DE COLUMNA: H-0

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	134.25	
Lz1 (m)	9.26	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	59.1	Ok
Vu (kN)	88.6	
φVc (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: H-1
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.80	0.30
Lz2 (m)	2.00	
ΔR (kN)	12.25	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	490.4	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		
φVc (kN)	554.3	Ok
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	163.5	
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	182.0	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		
A ₂ (m ²)	1.95	mayor 2
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H-0 y H-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	44.1	
Factor	1.50	
Mu (kN-m)	66.2	
d (m)	0.41	
h (m)	0.50	
ρ	0.003625	
As req (mm²)	446	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.77	
V b. Col (kN)	90.3	
Vu (kN)	135.4	
ϕV_c (kN)	72.0	
ϕV_s (kN)	63.4	
X (m)	0.29	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.29	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	22.0
0.15	-112.3
1.00	12.3
4.45	12.3
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.65
0.24	-8.0
0.32	-16.5
0.41	-24.0
0.49	-30.3
0.58	-35.4
0.66	-39.5
0.75	-42.3
0.83	-44.1
0.92	-44.7
1.00	-44.1
1.00	-44.1
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H-0 y H-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

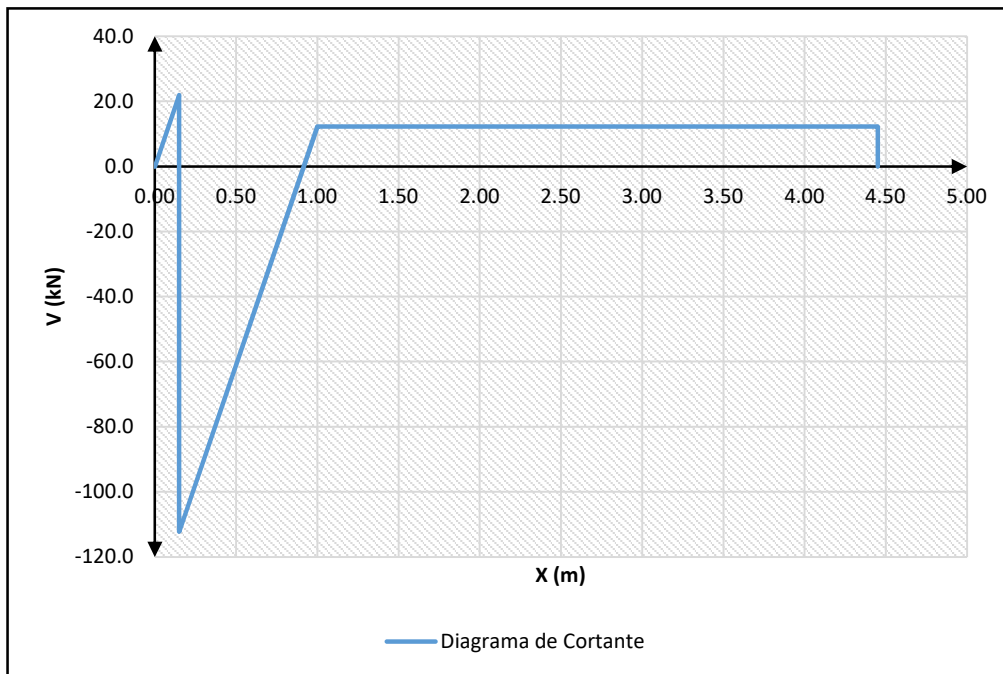
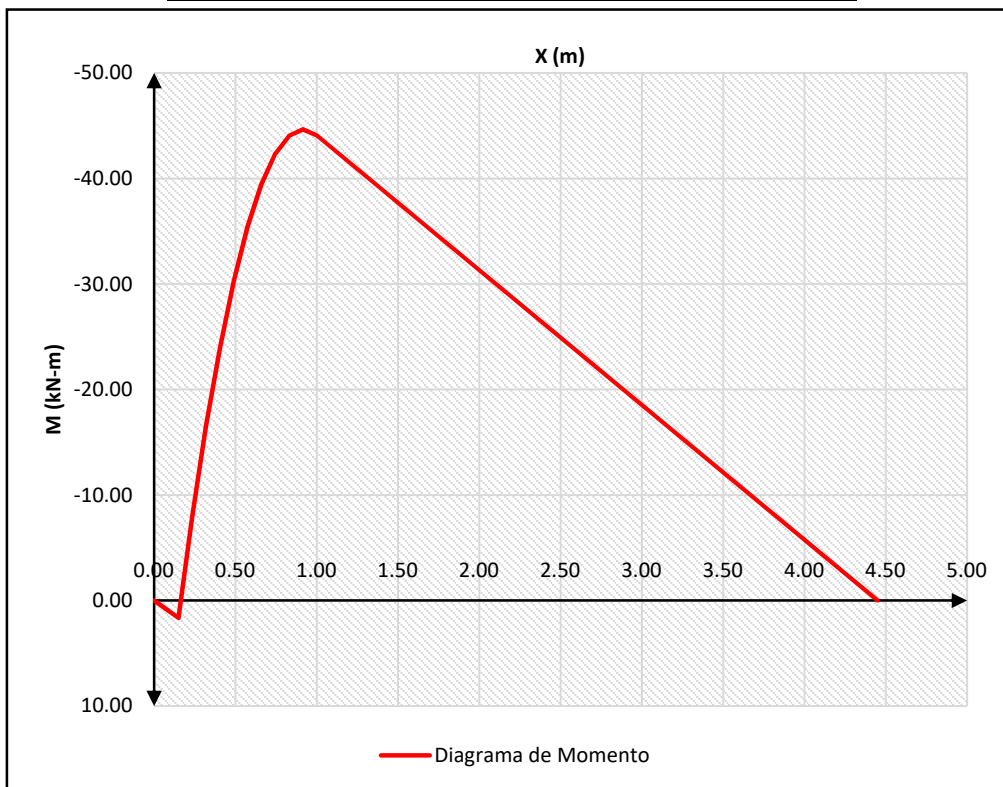


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: I-0

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	116.7	6.8%
P. P Zap (kN)	7.9	6.8%
Total	124.6	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.25	
Bz1 (m)	0.80	0.80
ΔR (kN)	7.42	7.42
Lz1 (m)	1.65	1.65
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.02	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	17.14	
Factor	1.50	
Mu (kN-m)	25.7	
d (m)	0.18	
h (m)	0.25	
ρ	0.002710	
As (mm ²)	390	Dis
Barra (ϕ)	#4	
Separación	0.26	
Repartición	#4 c/0.26	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	304	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: I-1
REFERENCIA: Z-1

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	281.0	5.5%
P. P Zapata	15.5	5.5%
Total	296.5	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	2.89	
Lz2 (m)	1.60	1.70
ΔR (kN)	7.42	7.42
Bz2 (m)	1.60	1.70
ESFUERZO TERRENO		
σ Neto (kN/m ²)	106.87	Rev
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.65	
Bz2 (m)	1.60	
Mu (kN-m)	54.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.002861	
As (mm ²)	824	Dis
Barra (ϕ)	#4	
Separación	0.25	
Repartición	#4 c/0.25	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.65	
Lz2 (m)	1.60	
Mu (kN-m)	54.2	
d (m)	0.16	
h (m)	0.25	
ρ	0.003656	
As (mm ²)	936	Dis
Barra (ϕ)	#4	
Separación	0.22	
Repartición	#4 c/0.22	

LOCALIZACIÓN DE COLUMNA: I-0

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	116.69	
Lz1 (m)	7.93	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	50.8	Ok
Vu (kN)	76.2	
ϕV_c (kN)	84.3	

LOCALIZACIÓN DE COLUMNA: I-1
REFERENCIA: Z-1

SOLICITACIONES		REV.
A2 (m²)	2.89	0.25
Lz2 (m)	1.60	
ΔR (kN)	7.42	
Bz2 (m)	1.60	
h borde (m)	0.25	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	373.4	
dv (m)	0.18	
Caso 1		Ok
ϕV_c (kN)	607.2	
Caso 2		Ok
α_s	40	
ϕV_c (kN)	568.2	Ok
Caso 3		Ok
ϕV_c (kN)	392.9	
Análisis en una direcciones		Ok
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	120.5	
dv (m)	0.18	
ϕV_c (kN)	168.7	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	125.7	
dv (m)	0.16	
ϕV_c (kN)	149.9	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A_1 (m ²)	0.09	Ok
ϕP_n (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A_2 (m ²)	1.69	
$\sqrt{A_2/A_1}$	4.33	
ϕP_n (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS I-0 y I-1

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	4.45

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	28.2	
Factor	1.50	
Mu (kN-m)	42.3	
d (m)	0.41	
h (m)	0.50	
ρ	0.002279	
As req (mm²)	406	
Barra (ϕ)	#6	Min
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.60	
V b. Col (kN)	70.1	
Vu (kN)	105.2	
ϕV_c (kN)	72.0	
ϕV_s (kN)	33.2	
X (m)	0.14	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.55	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	23.3
0.15	-93.4
0.80	7.4
4.45	7.4
4.45	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.75
0.22	-4.3
0.28	-9.8
0.35	-14.5
0.41	-18.6
0.48	-22.0
0.54	-24.6
0.61	-26.6
0.67	-27.8
0.74	-28.4
0.80	-28.2
0.80	-28.2
4.45	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS I-0 y I-1

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

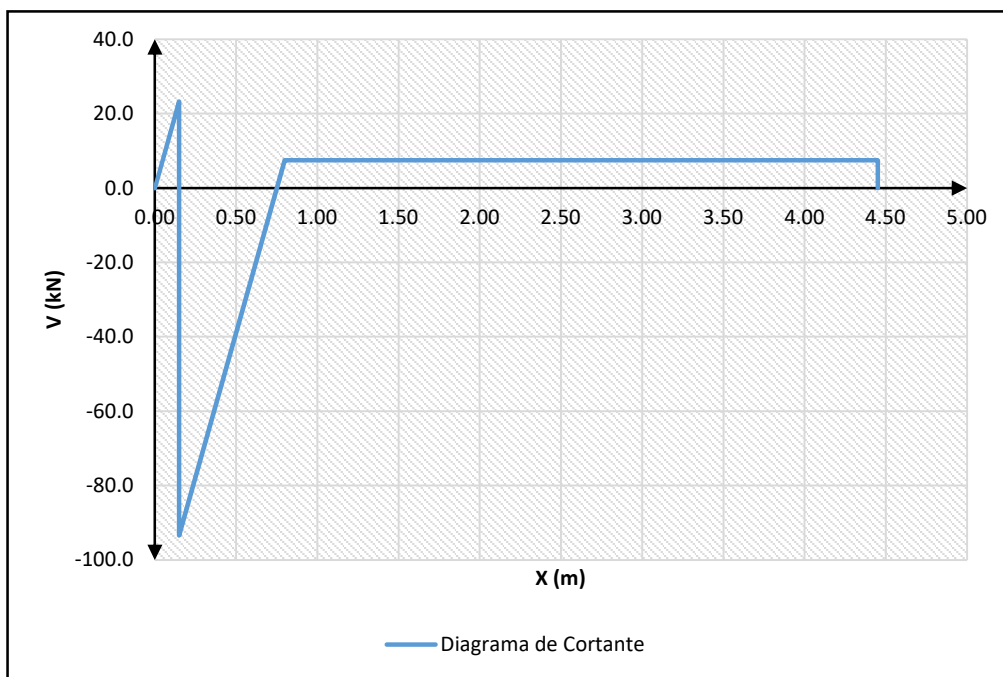
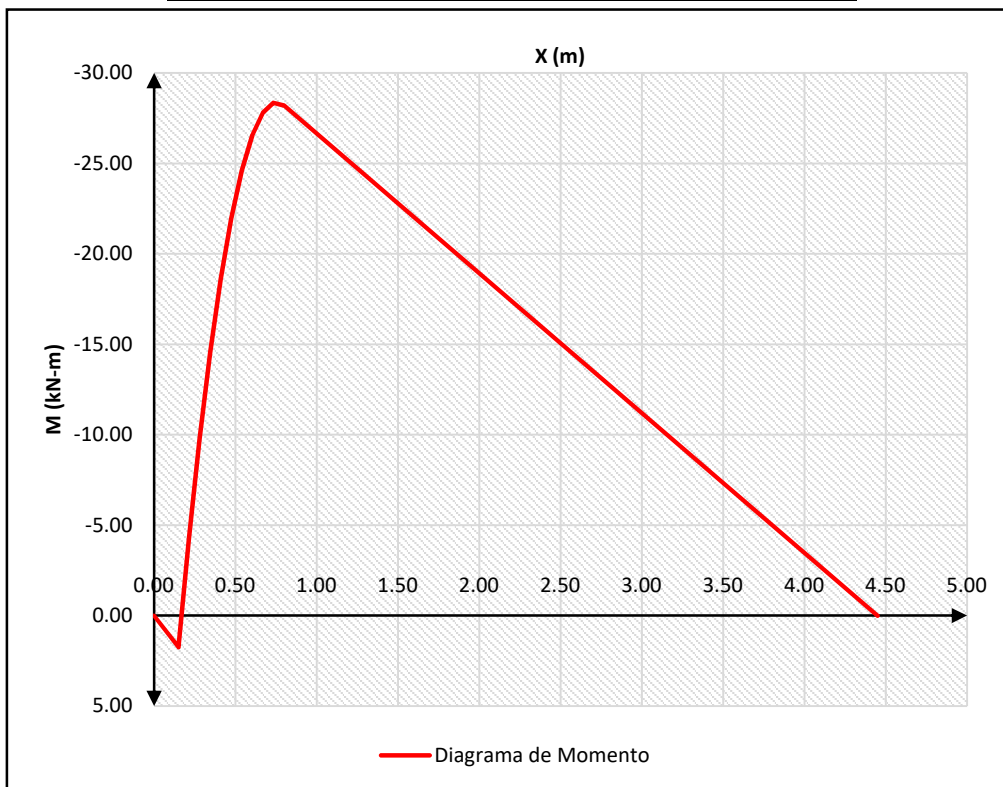


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: H'-2

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	146.7	6.7%
P. P Zap (kN)	9.8	6.7%
Total	156.5	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.57	
Bz1 (m)	1.00	0.90
ΔR (kN)	8.75	7.44
Lz1 (m)	1.65	1.80
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.20	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	21.46	
Factor	1.50	
Mu (kN-m)	32.2	
d (m)	0.18	
h (m)	0.25	
ρ	0.002715	
As (mm ²)	489	Dis
Barra (ϕ)	#4	
Separación	0.26	
Repartición	#4 c/0.26	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	304	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: H-2
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	319.1	9.0%
P. P Zapata	28.7	9.0%
Total	347.8	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.39	
Lz2 (m)	2.00	1.85
ΔR (kN)	8.75	7.44
Bz2 (m)	2.00	1.85
ESFUERZO TERRENO		
σ Neto (kN/m ²)	77.59	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	84.1	
d (m)	0.23	
h (m)	0.30	
ρ	0.002157	
As (mm ²)	1080	Min
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	84.1	
d (m)	0.16	
h (m)	0.25	
ρ	0.004593	
As (mm ²)	1470	Dis
Barra (ϕ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

LOCALIZACIÓN DE COLUMNA: H'-2

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	146.68	
Lz1 (m)	9.83	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	63.6	Ok
Vu (kN)	95.4	
ϕV_c (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: H-2
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	3.39	0.30
Lz2 (m)	2.00	
ΔR (kN)	8.75	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	Ok
bb "2" (m)	0.53	
Vu (kN)	432.9	
dv (m)	0.23	
Caso 1		
φVc (kN)	856.7	Ok
Caso 2		
αs	40	Ok
φVc (kN)	883.9	
Caso 3		Ok
φVc (kN)	554.3	
Análisis en una direcciones		Ok
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	144.3	
dv (m)	0.23	
φVc (kN)	269.4	
Sentido Bz1 (Sentido Longitudinal)		
Vu (kN)	160.6	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		
A ₁ (m ²)	0.09	Ok
φPn (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A ₂ (m ²)	1.95	
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H'-2 y H-2

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	6.61

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	50.4	
Factor	1.50	
Mu (kN-m)	75.6	
d (m)	0.41	
h (m)	0.50	
ρ	0.004170	
As req (mm²)	513	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.79	
V b. Col (kN)	100.1	
Vu (kN)	150.1	
ϕV_c (kN)	72.0	
ϕV_s (kN)	78.0	
X (m)	0.33	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.24	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	23.3
0.15	-123.4
1.00	8.8
6.61	8.8
6.61	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.75
0.24	-8.8
0.32	-18.2
0.41	-26.5
0.49	-33.5
0.58	-39.3
0.66	-44.0
0.75	-47.4
0.83	-49.6
0.92	-50.6
1.00	-50.4
1.00	-50.4
6.61	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H'-2 y H-2

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

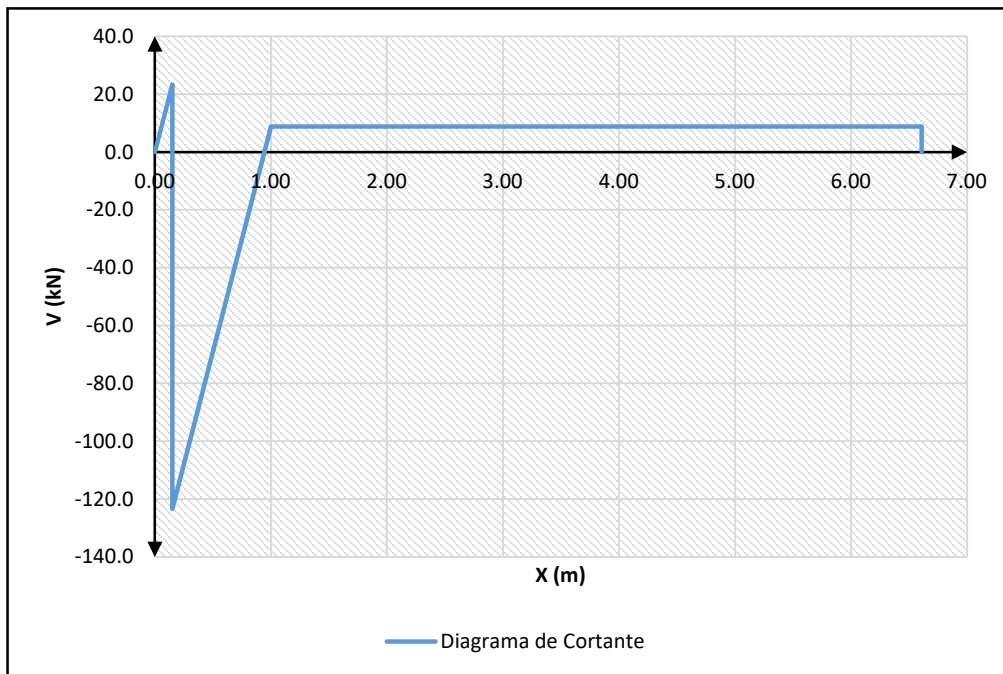
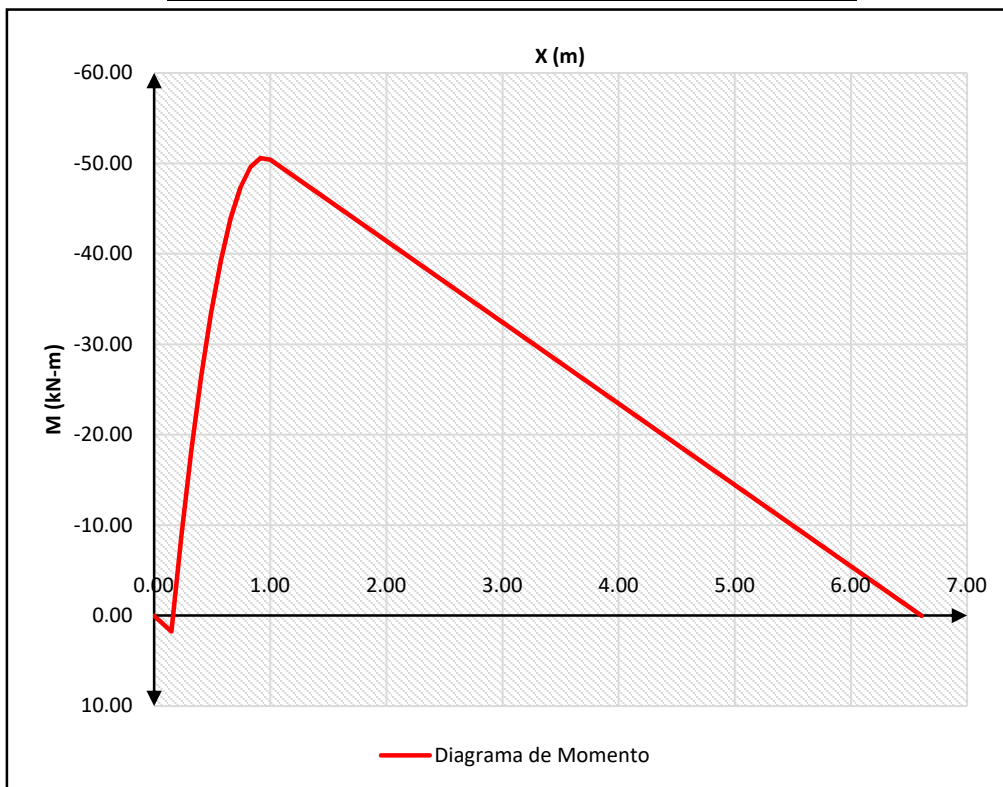


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: H'-3

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	99.9	6.7%
P. P Zap (kN)	6.9	6.9%
Total	106.8	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.07	
Bz1 (m)	0.80	0.75
ΔR (kN)	5.52	4.94
Lz1 (m)	1.40	1.50
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.16	Ok
DISEÑO DE LA ZAPATA		
Sentido Lz (Sentido Transversal)		
M (kN-m)	11.39	
Factor	1.50	
Mu (kN-m)	17.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.001782	
As (mm ²)	360	Min
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	248	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: H-3
REFERENCIA: Z-3

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	266.8	10.8%
P. P Zapata	28.8	10.8%
Total	295.6	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	2.90	
Lz2 (m)	2.00	1.70
ΔR (kN)	5.52	4.94
Bz2 (m)	2.00	1.70
ESFUERZO TERRENO		
σ Neto (kN/m ²)	65.31	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.85	
Bz2 (m)	2.00	
Mu (kN-m)	70.8	
d (m)	0.23	
h (m)	0.30	
ρ	0.001808	
As (mm ²)	1080	Min
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.85	
Lz2 (m)	2.00	
Mu (kN-m)	70.8	
d (m)	0.16	
h (m)	0.25	
ρ	0.003829	
As (mm ²)	1225	Dis
Barra (ϕ)	#4	
Separación	0.21	
Repartición	#4 c/0.21	

LOCALIZACIÓN DE COLUMNA: H'-3

SOLICITACIONES		REV.
A1 (m²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	99.94	
Lz1 (m)	6.90	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	41.4	Ok
Vu (kN)	62.1	
φVc (kN)	84.3	

LOCALIZACIÓN DE COLUMNA: H-3
REFERENCIA: Z-3

SOLICITACIONES		REV.
A2 (m²)	2.90	
Lz2 (m)	2.00	0.30
ΔR (kN)	5.52	
Bz2 (m)	2.00	
h borde (m)	0.30	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.53	
bb "2" (m)	0.53	
Vu (kN)	364.3	
dv (m)	0.23	
Caso 1		Ok
φVc (kN)	856.7	
Caso 2		Ok
αs	40	
φVc (kN)	883.9	Ok
Caso 3		Ok
φVc (kN)	554.3	
Análisis en una direcciones		Ok
Sentido Lz1 (Sentido Transversal)		
Vu (kN)	121.5	
dv (m)	0.23	
φVc (kN)	269.4	Ok
Sentido Bz1 (Sentido Longitudinal)		Ok
Vu (kN)	135.2	
dv (m)	0.16	
φVc (kN)	187.4	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		Ok
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A ₂ (m ²)	1.95	
√(A ₂ /A ₁)	4.65	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H'-3 y H-3

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	5.09

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	24.5	
Factor	1.50	
Mu (kN-m)	36.8	
d (m)	0.41	
h (m)	0.50	
ρ	0.001974	
As req (mm²)	406	
Barra (ϕ)	#6	Min
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.61	
V b. Col (kN)	60.4	
Vu (kN)	90.6	
ϕV_c (kN)	72.0	
ϕV_s (kN)	18.6	
X (m)	0.09	
ε (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.99	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	19.8
0.15	-80.2
0.80	5.5
5.09	5.5
5.09	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.48
0.22	-3.7
0.28	-8.4
0.35	-12.5
0.41	-16.0
0.48	-18.9
0.54	-21.3
0.61	-23.0
0.67	-24.1
0.74	-24.6
0.80	-24.5
0.80	-24.5
5.09	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H'3 y H-3

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

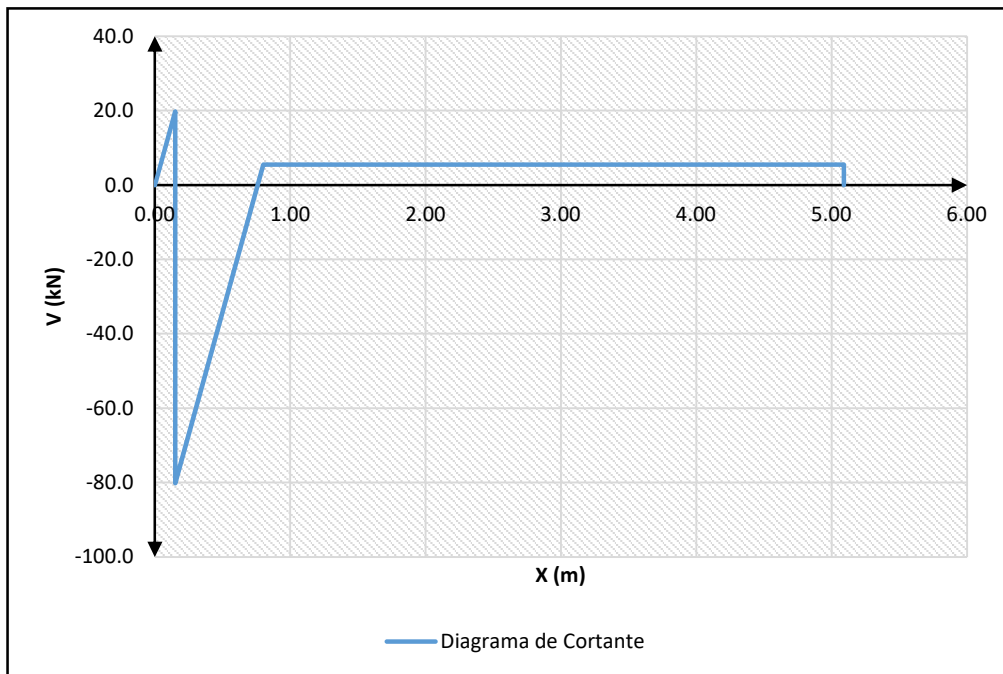
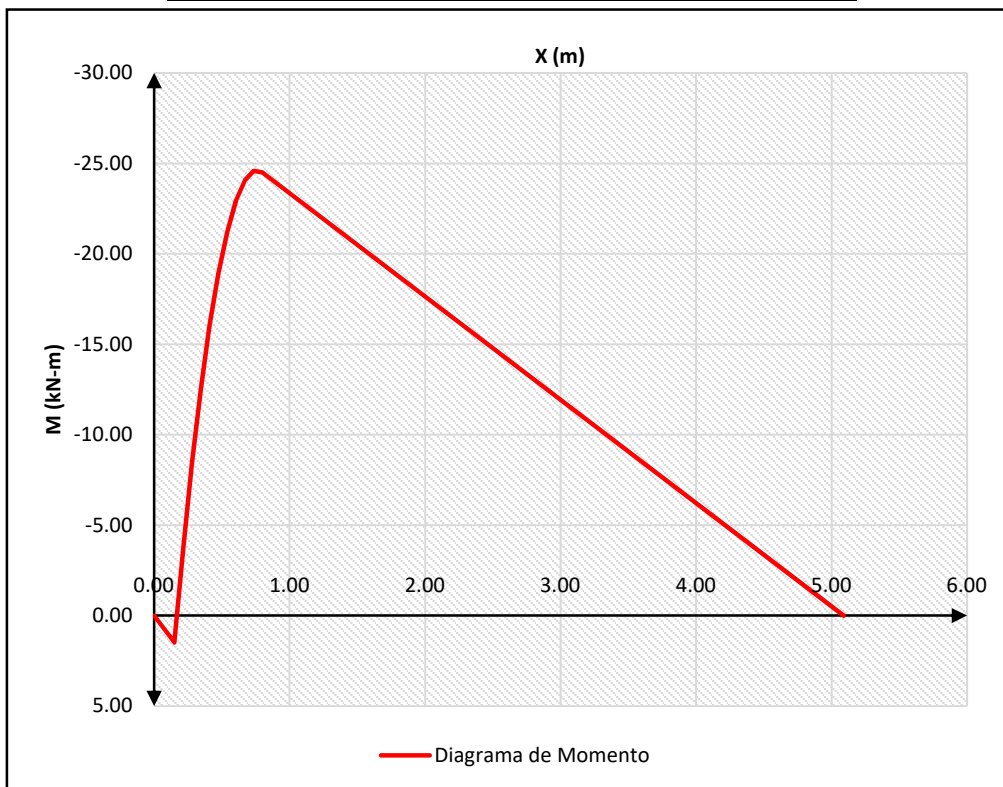


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



LOCALIZACIÓN DE COLUMNA: H-6

SOLICITACIONES		REV.
Bc1 (m)	0.30	
Lc1 (m)	0.30	
P1 (kN)	143.7	6.7%
P. P Zap (kN)	9.6	6.7%
Total	153.4	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

DIMENSIONES		REV.
A1 (m ²)	1.53	
Bz1 (m)	1.00	0.90
ΔR (kN)	8.25	7.0
Lz1 (m)	1.60	1.8
ESFUERZO TERRENO		
σ Neto (kN/m ²)	94.98	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
M (kN-m)	20.07	
Factor	1.50	
Mu (kN-m)	30.1	
d (m)	0.18	
h (m)	0.25	
ρ	0.002533	
As (mm ²)	456	Dis
Barra (ϕ)	#4	
Separación	0.28	
Repartición	#4 c/0.28	
Sentido Bz1 (Sentido Longitudinal)		
As min (mm ²)	293	
Barra (ϕ)	#4	
Separación	0.29	
Repartición	#4 c/0.29	

LOCALIZACIÓN DE COLUMNA: G-6
REFERENCIA: Z-2

SOLICITACIONES		REV.
Bc2 (m)	0.30	
Lc2 (m)	0.30	
P2 (kN)	327.4	5.9%
P. P Zapata	19.3	5.9%
Total	346.8	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

PARAMETRO DE SUELO	
σ (kN/m ²)	100

SOLICITACIONES		REV.
A2 (m ²)	3.39	
Lz2 (m)	1.80	1.85
ΔR (kN)	8.25	7.0
Bz2 (m)	1.80	1.85
ESFUERZO TERRENO		
σ Neto (kN/m ²)	98.52	Ok
DISEÑO DE LA ZAPATA		REV.
Sentido Lz (Sentido Transversal)		
Vol Lz (m)	0.75	
Bz2 (m)	1.80	
Mu (kN-m)	74.8	
d (m)	0.18	
h (m)	0.25	
ρ	0.003541	
As (mm ²)	1147	Dis
Barra (ϕ)	#4	
Separación	0.20	
Repartición	#4 c/0.2	
Sentido Bz1 (Sentido Longitudinal)		
Vol Bz (m)	0.75	
Lz2 (m)	1.80	
Mu (kN-m)	74.8	
d (m)	0.16	
h (m)	0.25	
ρ	0.004537	
As (mm ²)	1307	Dis
Barra (ϕ)	#4	
Separación	0.18	
Repartición	#4 c/0.18	

LOCALIZACIÓN DE COLUMNA: H-6

SOLICITACIONES		REV.
A1 (m ²)	0.30	
Bz1 (m)	0.30	
ΔR (kN)	143.73	
Lz1 (m)	9.63	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	61.7	Ok
Vu (kN)	92.6	
ϕV_c (kN)	105.4	

LOCALIZACIÓN DE COLUMNA: G-6
REFERENCIA: Z-2

SOLICITACIONES		REV.
A2 (m²)	3.39	
Lz2 (m)	1.80	0.25
ΔR (kN)	8.25	
Bz2 (m)	1.80	
h borde (m)	0.25	
MATERIALES		
f'c (Mpa)	21.1	
fy (Mpa)	420	

REVISIÓN DE CORTANTE		REV.
Análisis en dos direcciones		
bl "1" (m)	0.48	
bb "2" (m)	0.48	
Vu (kN)	444.7	
dv (m)	0.18	
Caso 1		Ok
φVc (kN)	607.2	
Caso 2		Ok
αs	40	
φVc (kN)	568.2	Ok
Caso 3		Rev
φVc (kN)	392.9	
Análisis en una direcciones		
Sentido Lz1 (Sentido Transversal)		Ok
Vu (kN)	151.6	
dv (m)	0.18	
φVc (kN)	189.8	
Sentido Bz1 (Sentido Longitudinal)		Ok
Vu (kN)	156.9	
dv (m)	0.16	
φVc (kN)	168.7	
REVISIÓN DE APLASTAMIENTO		REV.
Aplastamiento en la base de la col.		Ok
A ₁ (m ²)	0.09	
φPn (kN)	1049.2	
Aplastamiento en la zapata		mayor 2
A ₂ (m ²)	1.69	
√(A ₂ /A ₁)	4.33	
φPn (kN)	2098.4	

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H-6 y G-6

MATERIALES	
f'c (Mpa)	21.1
fy (Mpa)	420
SECCIÓN TRASVERSAL	
B (m)	0.3
h (m)	0.50
L "Ejes" (m)	6.86

DISEÑO DE VIGA		REV.
Análisis de flexión		
M (kN-m)	49.6	
Factor	1.50	
Mu (kN-m)	74.3	
d (m)	0.41	
h (m)	0.50	
ρ	0.004096	
As req (mm²)	504	
Barra (ϕ)	#6	Dis
Cantidad	2	
As (mm²)	568	
Análisis de cortante		
Xo (m)	0.80	
V b. Col (kN)	98.1	
Vu (kN)	147.2	
ϕV_c (kN)	72.0	
ϕV_s (kN)	75.2	
X (m)	0.33	
ϵ (ϕ)	#3	
Nº Ramas	2	
Av (mm²)	142	
S (m)	0.24	Rev
S max (m)	0.15	

DIAGRAMAS DE VALORES

Fuerza cortante	
X (m)	V (kN)
0.00	0.0
0.15	22.8
0.15	-120.9
1.00	8.2
6.86	8.2
6.86	0.0

Momento flector	
X (m)	M (kN-m)
0.00	0.00
0.15	1.71
0.24	-8.6
0.32	-17.9
0.41	-26.0
0.49	-32.9
0.58	-38.6
0.66	-43.1
0.75	-46.5
0.83	-48.7
0.92	-49.7
1.00	-49.6
1.00	-49.6
6.86	0.00

DISEÑO DE VIGA DE CONTRAPESO ENTRE LAS COLUMNAS H-6 y G-6

DIAGRAMA DE CORTANTE DE LA VIGA DE CONTRAPESO

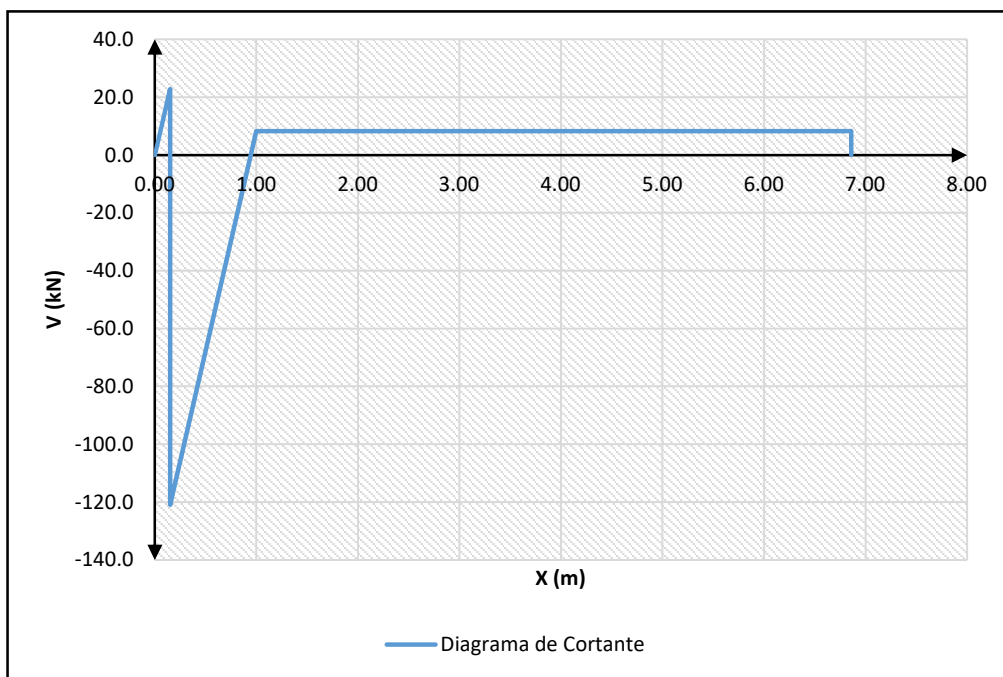
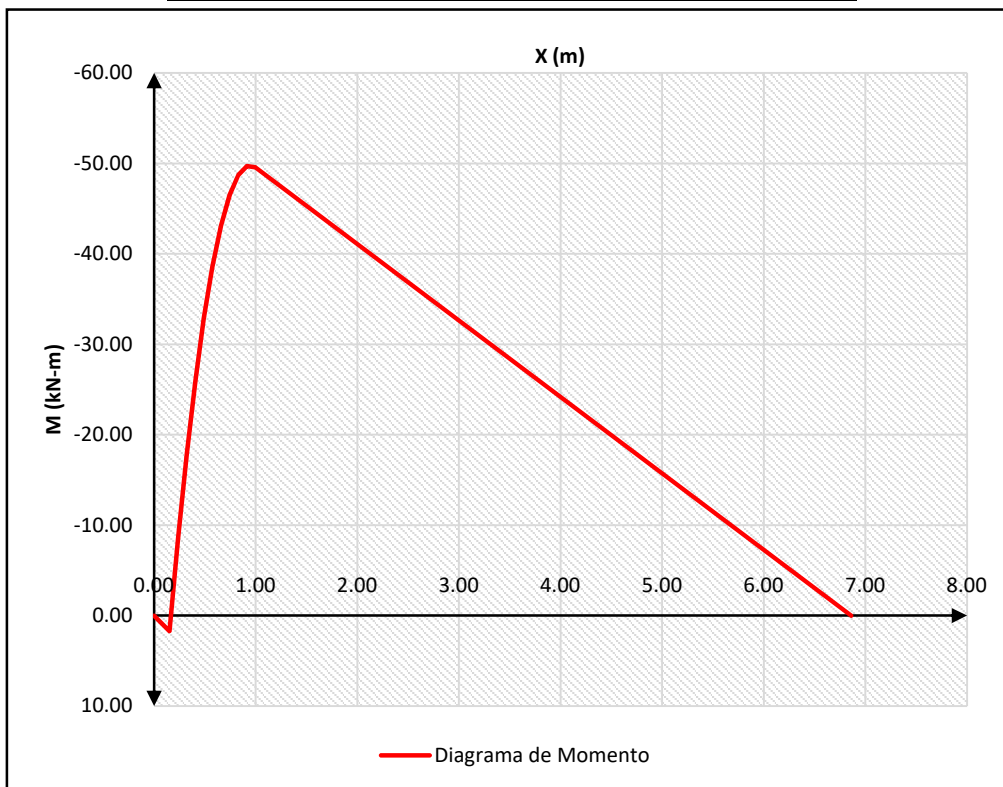


DIAGRAMA DE MOMENTO DE LA VIGA DE CONTRAPESO



12.6

DISEÑO DE CIMIENTOS COMBINADOS

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS A'-3 y A-3

ESTADO DE SUELO	
σ (kN/m ²)	100
δ (mm)	50.7
Ks (kN/m ³)	1972

MATERIALES	
f _c (Mpa)	21.1
E _c (Mpa)	21589
f _y (Mpa)	420

SEPARACIÓN	
L (m)	3.47

PROPIEDADES DE LA SECCIÓN								
Elemento	b (m)	h (m)	Area (m ²)	$\bar{y}$ (m)	$A\bar{y}$ (m ³)	I _i (m ⁴)	d _i ² (m ²)	A*d _i ² (m ²)
1	1.50	0.25	0.38	0.125	0.05	1.95E-03	3.91E-03	1.46E-03
2	0.50	0.25	0.13	0.375	0.05	6.51E-04	3.52E-02	4.39E-03
Σ			0.50		0.09	2.60E-03		5.86E-03

PROP. SECCIÓN	
$\bar{y}$ (m)	0.19
I _c (m ⁴)	8.46E-03
β^*L req	0.79
I _r (m ⁴)	1.31E-02
ΔI (m ⁴)	0.00

β^*L req	0.88	Δ
Rigido	0.79	0.09
Flexible	1.57	0.70

LOCALIZACIÓN:LOCALIZACIÓN:

A'-3

COLUMNAS	
Bc1 (m)	0.30
Lc1 (m)	0.30
P1 (kN)	36.6

LOCALIZACIÓN:

A-3

COLUMNAS	
Bc2 (m)	0.30
Lc2 (m)	0.30
P2 (kN)	304.9

RESUMEN		
C. Col (kN)	341.5	22.8%
P. P Z (kN)	50.5	14.8%
Total	392.0	

DIMENSIONES DE ZAPATA		
Area (m ²)	3.92	REV.
X (m)	3.10	
Bz (m)	6.50	0.60
Lz (m)	1.50	

DIMENSIONES DE VIGA		
Bv (m)	0.50	
Hv (m)	0.50	
L (A-B) (m)	3.47	
L (B-C) (m)	2.88	

ESFUERZO NETO ACTUANTE		
σ (kN/m ²)	35.02	Ok

ESFUERZO NETO ACTUANTE		
ql (kN/m)	52.54	Ok

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS A'-3 y A-3

DISEÑO DE LA ZAPATA		REV.
Diseño transversal (Aletas)		
M (kN-m)	4.38	Min
Factor	1.50	
Mu (kN-m)	6.6	
d (m)	0.21	
h (m)	0.30	
ρ	0.000396	
As (mm ²)	540	
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	

DISEÑO DE LA ZAPATA		REV.
Diseño longitudinal (superior)		
M (kN-m)	7.253282556	Min
Factor	1.50	
Mu (kN-m)	10.9	
d (m)	0.41	
h (m)	0.50	
ρ	0.000344	
As req (mm²)	677	
Barra (φ)	#6	
Cantidad	3	
As (mm²)	852	
Diseño longitudinal (inferior)		Dis
M (kN-m)	217.3	
Factor	1.50	
Mu (kN-m)	325.9	
d (m)	0.41	
h (m)	0.50	
ρ	0.011929	
As req (mm²)	2445	
Barra (φ)	#7	
Cantidad	7	
As (mm²)	2709	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	17.5	Ok
Vu (kN)	26.3	
ϕV_c (kN)	123.0	

REVISIÒN DE CORTANTE		REV.
LUZ (A-B)	"Origen en A"	
Xa (m)	0.55	Ok
V b. Col (kN)	20.8	
Vu (kN)	31.2	
ϕV_c (kN)	120.1	
ϕV_s (kN)	-88.8	
X (m)	-1.13	
ε (φ)	#4	
Nº Ramas	2	
Av (mm²)	258	
S (m)	-0.38	
S max (m)	0.205	

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS A'-3 y A-3

REVISIÓN DE CORTANTE		REV.
LUZ (A-B)	"Origen en B"	
Xb (m)	2.92	Ok
V b. Col (kN)	145.7	
Vu (kN)	218.6	
ϕV_c (kN)	120.1	
ϕV_s (kN)	98.5	
X (m)	1.25	
ϵ (ϕ)	#3	
N° Ramas	2	
Av (mm ²)	142	
S (m)	0.19	
S max (m)	0.25	
LUZ (B-C)	"Origen en B"	Ok
Xb (m)	2.88	
V b. Col (kN)	143.4	
Vu (kN)	215.1	
ϕV_c (kN)	120.1	
ϕV_s (kN)	95.1	
X (m)	1.21	
ϵ (ϕ)	#3	
N° Ramas	2	
Av (mm ²)	142	
S (m)	0.19	
S max (m)	0.25	

VALORES DE DIAGRAMAS		
X (m)	V (kN)	M (kN-m)
0.00	0.0	0.00
0.15	7.9	0.59
0.15	-28.7	0.59
0.50	-10.5	-6.2
0.84	7.8	-6.7
1.19	26.0	-0.8
1.54	44.2	11.3
1.89	62.4	29.9
2.23	80.7	54.7
2.58	98.9	85.8
2.93	117.1	123.3
3.27	135.4	167.1
3.62	153.6	217.3
3.62	-151.3	217.3
3.91	-136.2	175.9
4.20	-121.0	138.8
4.48	-105.9	106.1
4.77	-90.8	77.8
5.06	-75.7	53.9
5.35	-60.5	34.2
5.64	-45.4	19.0
5.92	-30.3	8.1
6.21	-15.1	1.6
6.50	0.0	-0.6

REFUERZO VIGA ALTA		
fs (Mpa)	280	Ok
Cc (mm)	75	
S (m)	0.19	
Smax	0.30	

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS A'-3 y A-3

DIAGRAMA DE CORTANTE DE LA VIGA

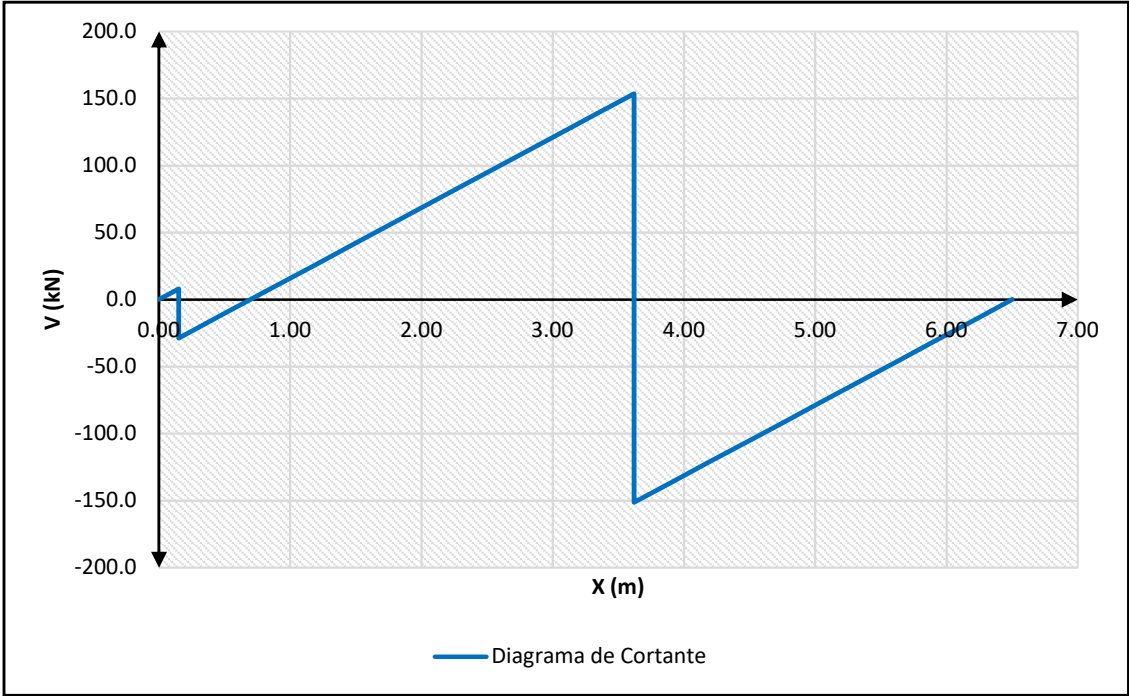
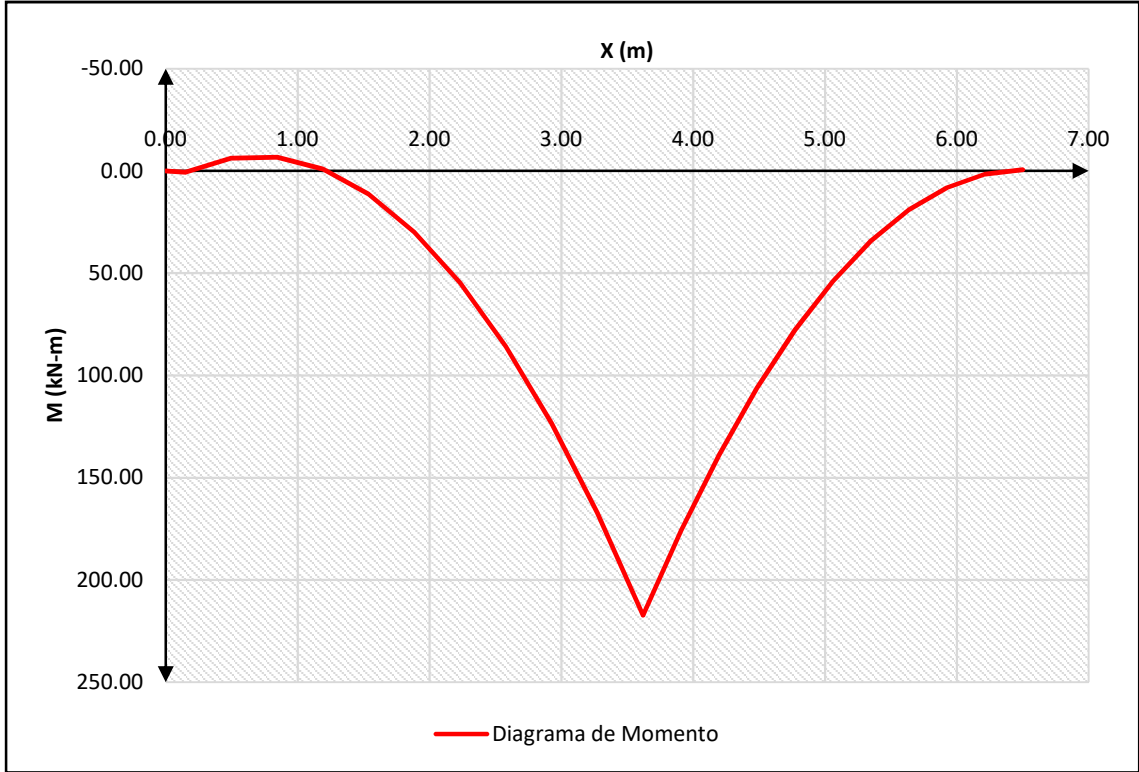


DIAGRAMA DE MOMENTO DE LA VIGA



DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS H'-4 y H-4

ESTADO DE SUELO	
σ (kN/m ²)	100
δ (mm)	50.7
Ks (kN/m ³)	1972

MATERIALES	
f _c (Mpa)	21.1
E _c (Mpa)	21589
f _y (Mpa)	420

SEPARACIÓN	
L (m)	3.00

PROPIEDADES DE LA SECCIÓN								
Elemento	b (m)	h (m)	Area (m ²)	$\bar{y}$ (m)	$A\bar{y}$ (m ³)	I _i (m ⁴)	d _i ² (m ²)	A*d _i ² (m ²)
1	1.50	0.25	0.38	0.125	0.05	1.95E-03	2.77E-03	1.04E-03
2	0.40	0.25	0.10	0.375	0.04	5.21E-04	3.90E-02	3.90E-03
Σ			0.48		0.08	2.47E-03		4.93E-03

PROP. SECCIÓN	
$\bar{y}$ (m)	0.18
I _c (m ⁴)	7.41E-03
β^*L req	0.79
I _r (m ⁴)	7.29E-03
ΔI (m ⁴)	0.00

β^*L req	0.78	Δ
Rigido	0.79	0.00
Flexible	1.57	0.79

LOCALIZACIÓN:LOCALIZACIÓN:

H'-4

COLUMNAS	
Bc1 (m)	0.30
Lc1 (m)	0.30
P1 (kN)	49.4

LOCALIZACIÓN:

H-4

COLUMNAS	
Bc2 (m)	0.30
Lc2 (m)	0.30
P2 (kN)	299.5

RESUMEN		
C. Col (kN)	348.8	17.8%
P. P Z (kN)	51.6	14.8%
Total	400.5	

DIMENSIONES DE ZAPATA		
Area (m ²)	4.00	REV.
X (m)	2.58	
Bz (m)	5.45	0.73
Lz (m)	1.50	

DIMENSIONES DE VIGA		
Bv (m)	0.40	
Hv (m)	0.50	
L (A-B) (m)	3.00	
L (B-C) (m)	2.30	

ESFUERZO NETO ACTUANTE		
σ (kN/m ²)	42.67	Ok

ESFUERZO NETO ACTUANTE		
ql (kN/m)	64.01	Ok

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS H'-4 y H-4

DISEÑO DE LA ZAPATA		REV.
Diseño transversal (Aletas)		
M (kN-m)	6.45	Min
Factor	1.50	
Mu (kN-m)	9.7	
d (m)	0.21	
h (m)	0.30	
ρ	0.000585	
As (mm ²)	540	
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	

DISEÑO DE LA ZAPATA		REV.
Diseño longitudinal (superior)		
M (kN-m)	11.62260195	Min
Factor	1.50	
Mu (kN-m)	17.4	
d (m)	0.41	
h (m)	0.50	
ρ	0.000692	
As req (mm²)	541	
Barra (φ)	#6	
Cantidad	2	
As (mm²)	568	
Diseño longitudinal (inferior)		Dis
M (kN-m)	169.5	
Factor	1.50	
Mu (kN-m)	254.2	
d (m)	0.41	
h (m)	0.50	
ρ	0.011577	
As req (mm²)	1899	
Barra (φ)	#7	
Cantidad	5	
As (mm²)	1935	

REVISIÒN DE CORTANTE		REV.
Anàlisis en una direcciones		
V (kN)	23.5	Ok
Vu (kN)	35.2	
ϕV_c (kN)	123.0	

REVISIÒN DE CORTANTE		REV.
LUZ (A-B)	"Origen en A"	
Xa (m)	0.62	Ok
V b. Col (kN)	30.1	
Vu (kN)	45.2	
ϕV_c (kN)	96.0	
ϕV_s (kN)	-50.8	
X (m)	-0.53	
ε (φ)	#4	
Nº Ramas	2	
Av (mm²)	258	
S (m)	-0.66	
S max (m)	0.2	

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS H'-4 y H-4

REVISIÓN DE CORTANTE		REV.
LUZ (A-B)	"Origen en B"	
Xb (m)	2.38	Ok
V b. Col (kN)	142.7	
Vu (kN)	214.0	
ϕV_c (kN)	96.0	
ϕV_s (kN)	118.0	
X (m)	1.23	
ϵ (ϕ)	#3	
N° Ramas	2	
Av (mm ²)	142	
S (m)	0.16	
S max (m)	0.2	
LUZ (B-C)	"Origen en B"	Ok
Xb (m)	2.30	
V b. Col (kN)	137.6	
Vu (kN)	206.4	
ϕV_c (kN)	96.0	
ϕV_s (kN)	110.4	
X (m)	1.15	
ϵ (ϕ)	#3	
N° Ramas	2	
Av (mm ²)	142	
S (m)	0.17	
S max (m)	0.2	

VALORES DE DIAGRAMAS		
X (m)	V (kN)	M (kN-m)
0.00	0.0	0.00
0.15	9.6	0.72
0.15	-39.7	0.72
0.45	-20.5	-8.3
0.75	-1.3	-11.6
1.05	17.9	-9.1
1.35	37.1	-0.9
1.65	56.3	13.1
1.95	75.5	32.9
2.25	94.7	58.4
2.55	113.9	89.7
2.85	133.1	126.7
3.15	152.3	169.5
3.15	-147.2	169.5
3.38	-132.5	137.3
3.61	-117.8	108.6
3.84	-103.0	83.2
4.07	-88.3	61.1
4.30	-73.6	42.5
4.53	-58.9	27.3
4.76	-44.2	15.4
4.99	-29.4	7.0
5.22	-14.7	1.9
5.45	0.0	0.2

REFUERZO VIGA ALTA		
fs (Mpa)	280	Ok
Cc (mm)	75	
S (m)	0.19	
Smax	0.30	

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS H'-4 y H-4

DIAGRAMA DE CORTANTE DE LA VIGA

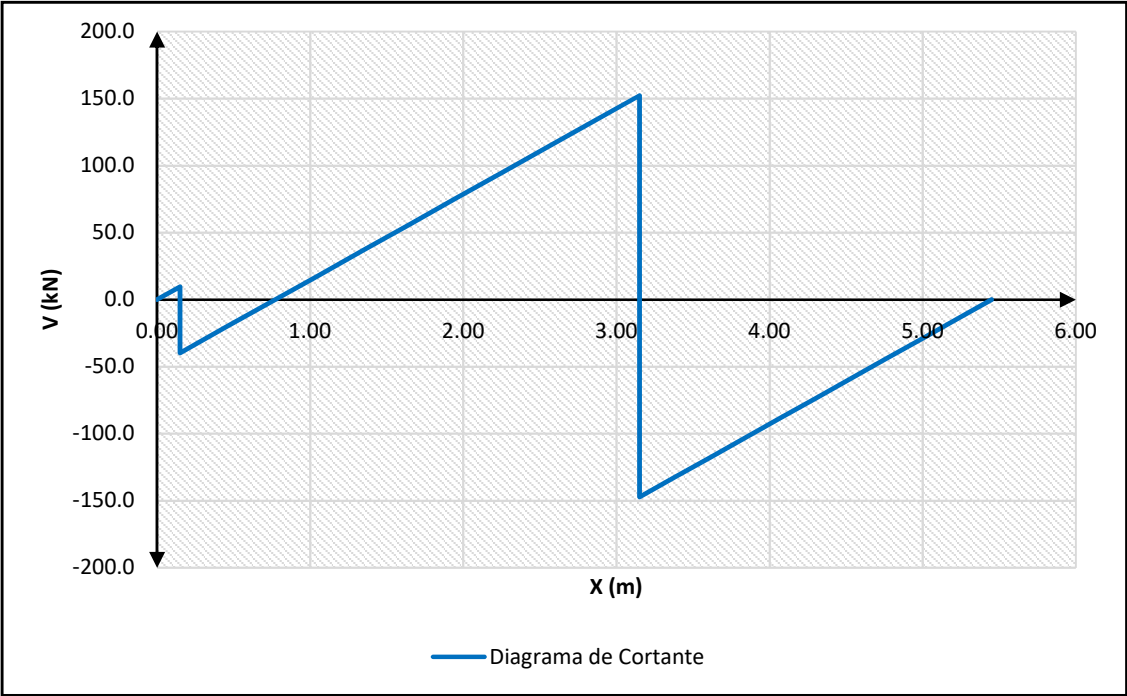
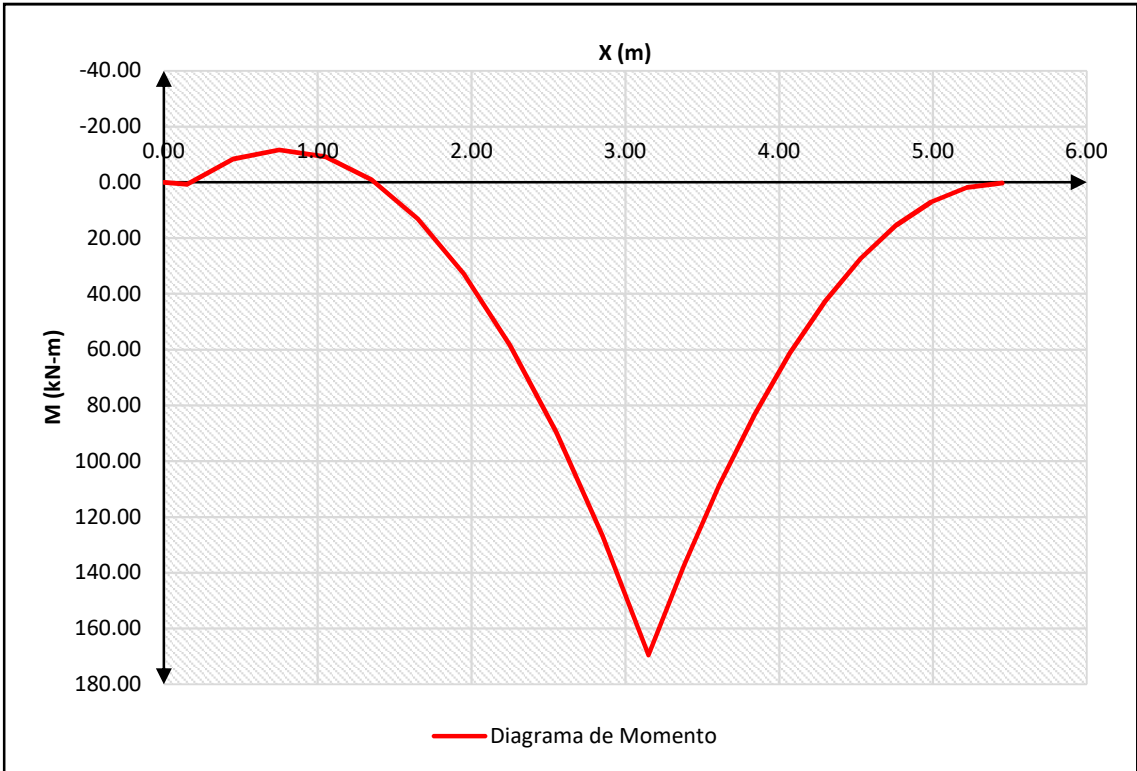


DIAGRAMA DE MOMENTO DE LA VIGA



DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS G"-4 y G-4

ESTADO DE SUELO	
σ (kN/m ²)	100
δ (mm)	50.7
Ks (kN/m ³)	1972

MATERIALES	
f _c (Mpa)	21.1
E _c (Mpa)	21589
f _y (Mpa)	420

SEPARACIÓN	
L (m)	2.08

PROPIEDADES DE LA SECCIÓN								
Elemento	b (m)	h (m)	Area (m ²)	$\bar{y}$ (m)	$A\bar{y}$ (m ³)	I _i (m ⁴)	d _i ² (m ²)	A*d _i ² (m ²)
1	1.00	0.25	0.25	0.125	0.03	1.30E-03	3.33E-03	8.32E-04
2	0.30	0.25	0.08	0.375	0.03	3.91E-04	3.70E-02	2.77E-03
Σ			0.33		0.06	1.69E-03		3.61E-03

PROP. SECCIÓN	
$\bar{y}$ (m)	0.18
I _c (m ⁴)	5.30E-03
β^*L req	0.79
I _r (m ⁴)	1.12E-03
ΔI (m ⁴)	0.00

β^*L req	0.53	Δ
Rigido	0.79	0.25
Flexible	1.57	1.04

LOCALIZACIÓN:

LOCALIZACIÓN: G"-4

COLUMNAS	
Bc1 (m)	0.30
Lc1 (m)	0.30
P1 (kN)	19.0

LOCALIZACIÓN: G-4

COLUMNAS	
Bc2 (m)	0.30
Lc2 (m)	0.30
P2 (kN)	145.0

RESUMEN		
C. Col (kN)	164.0	19.0%
P. P Z (kN)	29.2	17.8%
Total	193.2	

DIMENSIONES DE ZAPATA		
Area (m ²)	1.93	REV.
X (m)	1.84	
Bz (m)	4.00	0.48
Lz (m)	1.00	

DIMENSIONES DE VIGA		
Bv (m)	0.30	
Hv (m)	0.50	
L (A-B) (m)	2.08	
L (B-C) (m)	1.77	

ESFUERZO NETO ACTUANTE		
σ (kN/m ²)	41.00	Ok

ESFUERZO NETO ACTUANTE		
ql (kN/m)	41.00	Ok

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS G"-4 y G-4

DISEÑO DE LA ZAPATA		REV.
Diseño transversal (Aletas)		
M (kN-m)	2.51	Min
Factor	1.50	
Mu (kN-m)	3.8	
d (m)	0.21	
h (m)	0.30	
ρ	0.000227	
As (mm ²)	540	
Barra (ϕ)	#4	
Separación	0.24	
Repartición	#4 c/0.24	

DISEÑO DE LA ZAPATA		REV.
Diseño longitudinal (superior)		
M (kN-m)	1.552439024	Min
Factor	1.50	
Mu (kN-m)	2.3	
d (m)	0.41	
h (m)	0.50	
ρ	0.000122	
As req (mm²)	406	
Barra (φ)	#6	
Cantidad	2	
As (mm²)	568	
Diseño longitudinal (inferior)		Dis
M (kN-m)	62.4	
Factor	1.50	
Mu (kN-m)	93.6	
d (m)	0.41	
h (m)	0.50	
ρ	0.005234	
As req (mm²)	644	
Barra (φ)	#6	
Cantidad	3	
As (mm²)	852	

REVISIÓN DE CORTANTE		REV.
Análisis en una direcciones		
V (kN)	14.4	Ok
Vu (kN)	21.5	
ϕV_c (kN)	123.0	

REVISIÒN DE CORTANTE		REV.
LUZ (A-B)	"Origen en A"	
Xa (m)	0.31	Ok
V b. Col (kN)	6.7	
Vu (kN)	10.1	
ϕV_c (kN)	72.0	
ϕV_s (kN)	-62.0	
X (m)	-1.01	
ε (φ)	#4	
Nº Ramas	2	
Av (mm ²)	258	
S (m)	-0.54	
S max (m)	0.15	

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS G"-4 y G-4

REVISIÓN DE CORTANTE		REV.
LUZ (A-B)	"Origen en B"	
Xb (m)	1.77	Rev
V b. Col (kN)	66.3	
Vu (kN)	99.4	
ϕV_c (kN)	72.0	
ϕV_s (kN)	27.4	
X (m)	0.45	
ϵ (ϕ)	#3	
N° Ramas	2	
Av (mm ²)	142	
S (m)	0.67	
S max (m)	0.15	
LUZ (B-C)	"Origen en B"	Rev
Xb (m)	1.77	
V b. Col (kN)	66.4	
Vu (kN)	99.6	
ϕV_c (kN)	72.0	
ϕV_s (kN)	27.6	
X (m)	0.45	
ϵ (ϕ)	#3	
N° Ramas	2	
Av (mm ²)	142	
S (m)	0.66	
S max (m)	0.15	

VALORES DE DIAGRAMAS		
X (m)	V (kN)	M (kN-m)
0.00	0.0	0.00
0.15	6.2	0.46
0.15	-12.9	0.46
0.36	-4.3	-1.3
0.57	4.2	-1.3
0.77	12.7	0.4
0.98	21.3	4.0
1.19	29.8	9.3
1.40	38.3	16.4
1.61	46.8	25.2
1.81	55.4	35.8
2.02	63.9	48.2
2.23	72.4	62.4
2.23	-72.6	62.4
2.41	-65.3	50.2
2.58	-58.1	39.3
2.76	-50.8	29.7
2.94	-43.5	21.3
3.12	-36.3	14.3
3.29	-29.0	8.5
3.47	-21.8	4.0
3.65	-14.5	0.8
3.82	-7.3	-1.2
4.00	0.0	-1.8

REFUERZO VIGA ALTA		
fs (Mpa)	280	Ok
Cc (mm)	75	
S (m)	0.19	
Smax	0.30	

DISEÑO DE CIMENTO COMBINADO DE LAS COLUMNAS G"-4 y G-4

DIAGRAMA DE CORTANTE DE LA VIGA

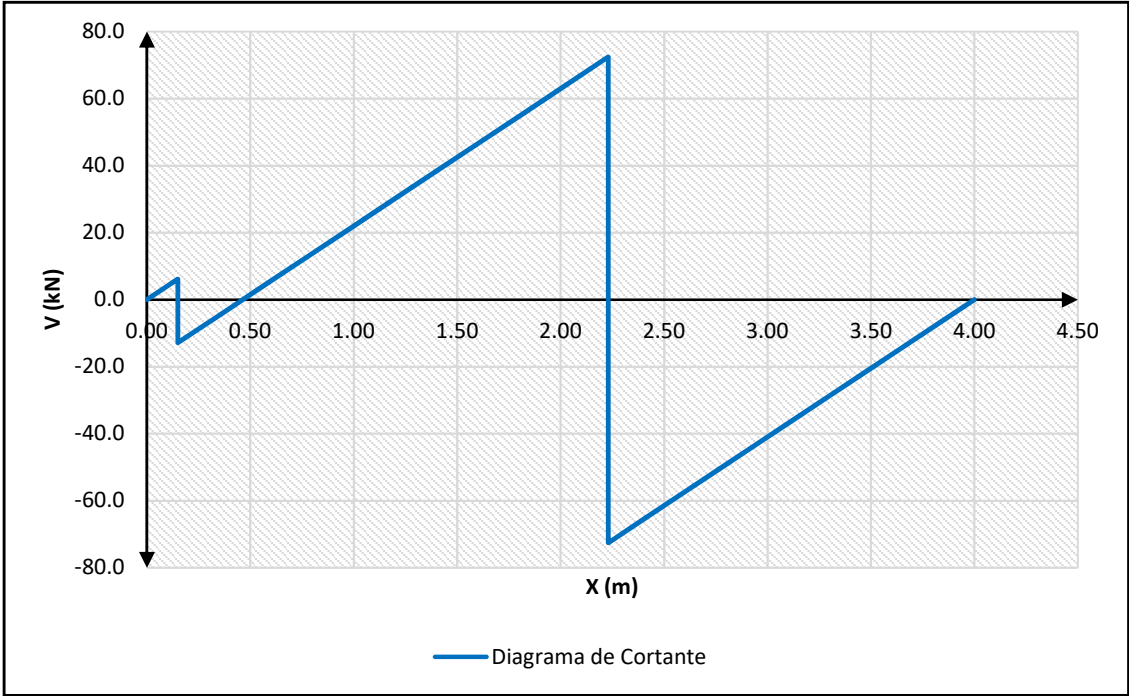
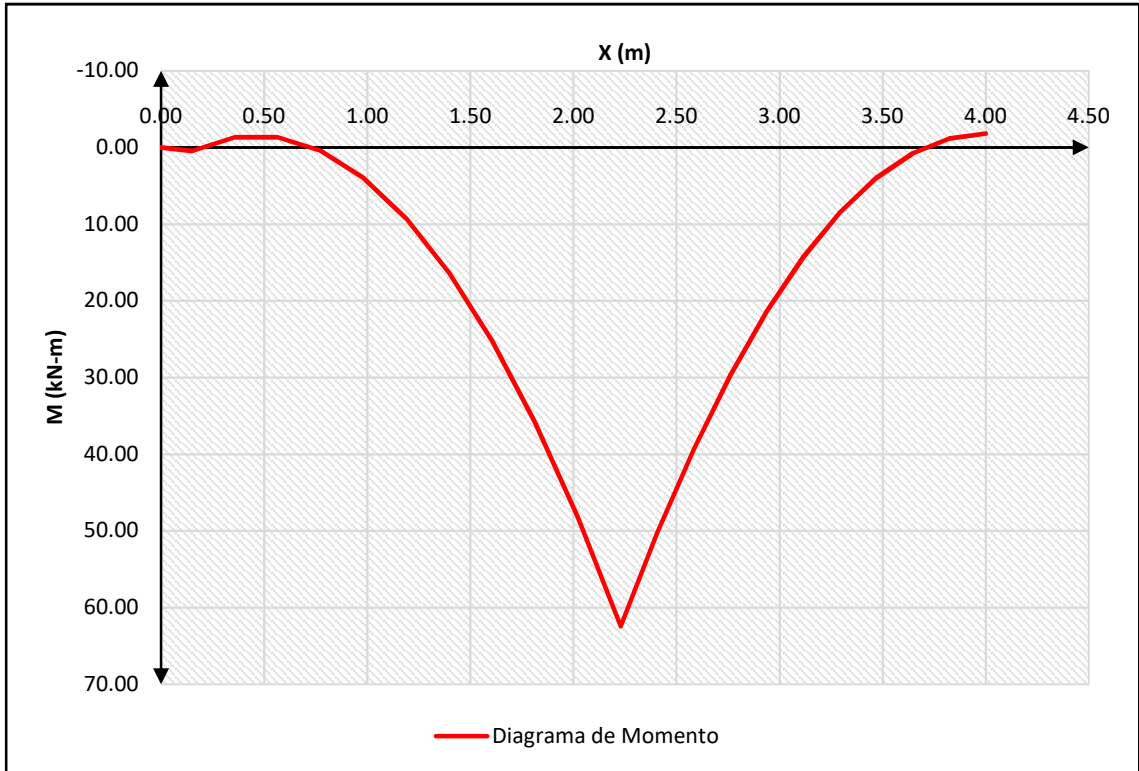


DIAGRAMA DE MOMENTO DE LA VIGA



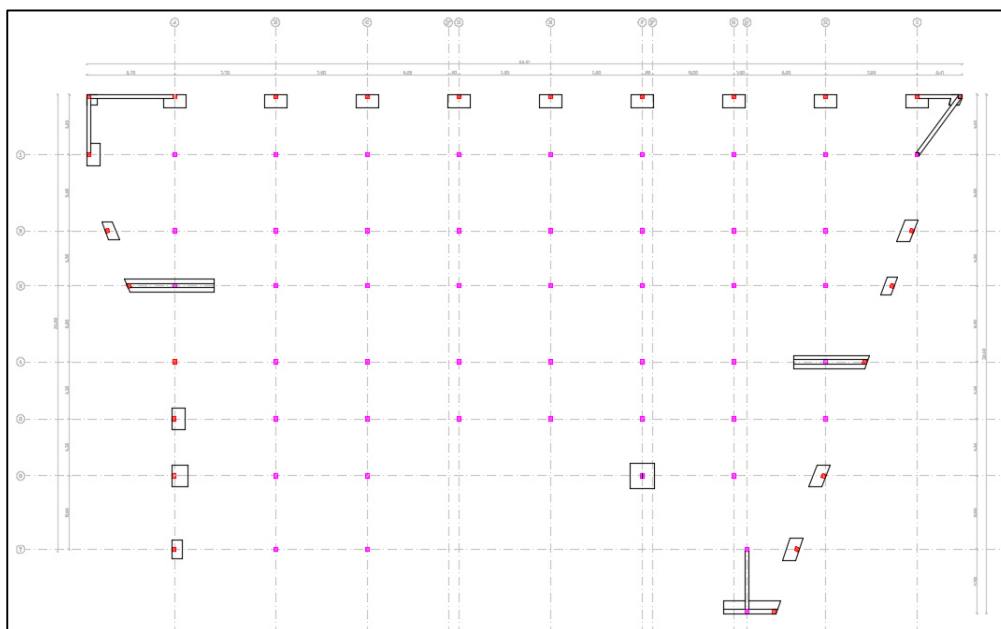
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ACTIVIDADES DE REHABILITACIÓN
DE LA ESTRUCTURA

ACTIVIDADES DE REHABILITACIÓN DE LA ESTRUCTURA

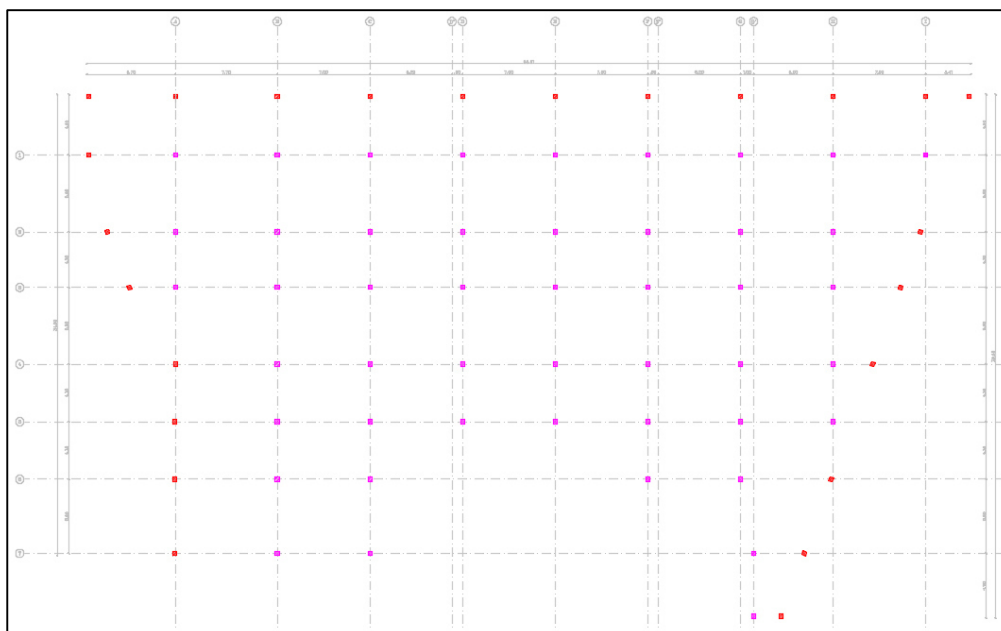
CIMENTACIÓN:

- Construir las cimentaciones como muestra la siguiente figura. Las zapatas comprende dos tipos de cimentación; cimentación con vigas de contrapeso y cimientos combinados. Las vigas de amarre que unen las columnas relacionadas funcionaran como vigas de contrapeso.
- Aumentar la zapata localizada en F6 a (1.90 x 1.90).



COLUMNAS:

Se construirán columnas perimetrales a lo largo del muro de contención. Las columnas de color rojo representan las columnas nuevas en la edificación. El objetivo es que la estructura se comporte como un pórtico resistente a momento con capacidad de disipación de energía moderada (DMO).



LOSA ALIGERADA DE ENTREPISO:

- Demoler la losa maciza que se encuentra actualmente y construir la siguiente losa de entrepiso. El piso 2 se constituirá de una losa aligerada en dos direcciones encarga de resistir las solicitaciones que resultan de las combinaciones estipuladas en el vigente reglamento de construcción sismo resistente NSR-10.

