



PROYECTO

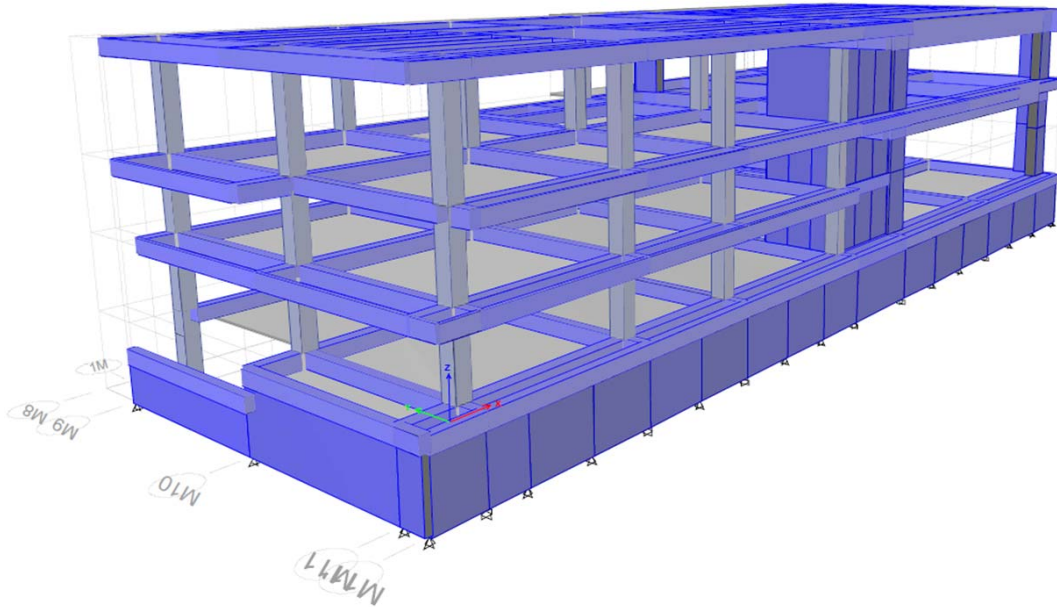
COLEGIO Y TEATRO EL ENSUEÑO

MODULO XV

**ANALISIS Y DISEÑO ESTRUCTURAL
V.2.**

Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

MEMORIA DE CALCULOS



1.0 DESCRIPCION DE PROYECTO.

El modulo XV del colegio es una edificacion con tres niveles de losas aligeradas, un sotano y una cubierta, soportada en porticos y vigas de concreto, cimentados en caissons.

2.0 UBICACION

Bogota - Cundinamarca.

3.0 TIPO DE SISTEMA - ESTRUCTURAL

Porticos de concreto.



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4.0 GEOMETRIA

4.1 NIVELES

N-3.21	Sotano 1
N-0.05	Losa primer piso
N+3.06	Losa segundo piso
N+6.12	Losa tercer piso
N+10.50	Cubierta

4.2 EJES LONGITUDINALES

EJES M9-M11

4.3 EJES TRANSVERSALES

EJES 1M-7M

4.4 TIPOS DE LOSA

Losa Aligerada (H=60cm)

4.5 TIPOS DE CIMENTACION

Caissons

5.0 ESPECIFICACIONES DE MATERIALES

5.1 CONCRETO

$f'c = 21 \text{ Mpa}$	Cimentacion y losas.
$f'c = 28 \text{ Mpa}$	pantallas y columnas.

5.2 ACERO DE REFUERZO

$F_y = 420 \text{ Mpa}$	$\emptyset \geq 3/8''$
$F_y = 260 \text{ Mpa}$	$\emptyset \leq 1/4''$
$F_y = 420 \text{ Mpa}$	Mallas electrosoldadas



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5.3 ACERO ESTRUCTURAL

Perfiles Laminados y Platinas ASTM A-572 gr50 ($F_y=350$ Mpa)
 Perfiles Tubulares ASTM A-588 ($F_y=350$ Mpa)
 Acero de Steel Deck -Lamina Colaborante ASTM A-570 ($F_y=232$ Mpa)
 Acero de Elementos Formados en Frio ($F_y=350$ Mpa)
 Uniones:
 Pernos de Anclaje Astm A-307 (Pernos B-7)
 Tornillos de Alta Resistencia ASTM A-325
 Soldaduras E70XX

6.0 RESUMEN DE CARGAS

N-0.05

CM:

958

 kg/m²
 CV:

200

 kg/m²

N+3.06

CM:

918

 kg/m²
 CV:

200

 kg/m²

N+6.12

CM:

918

 kg/m²
 CV:

500

 kg/m²

N+10.50

CM:

668

 kg/m² CG:

100

 kg/m²
 CV:

300

 kg/m²

7.0 CALCULO DEL COEFICIENTE R

SISTEMA ESTRUCTURAL :
 GRADO DE DISIPACION DE ENERGIA:

R_o :
 Ω_o :

IRREGULARIDADES: (ver Anexo)

Planta ϕ_p :
 Alzada ϕ_a :
 Redundancia ϕ_r :

Porticos de concreto	
DMO	
R_o	5
Ω_o	3.0
ϕ_p	1
ϕ_a	1
ϕ_r	0.75

FACTOR R:

3.75



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8.0 PARAMETROS ESTUDIO DE SUELOS

Estudio de suelos realizado por el GRUPO CAÑASGORDAS: Ing. Carlos Julio Echeverry

8.1 ESPECTRO DE DISEÑO

Zona de Amenaza Sísmica:
Aceleración Pico Efectiva
Velocidad Pico Efectiva

	Intermedia
Aa:	0.15
Av:	0.2

8.2 RECOMENDACIONES DE CIMENTACION

Caissons a 22mts.

9.0 REVISION DE DERIVAS

Deriva Maxima en el Sentido Longitudinal: **0.19%** <= 1.00% **OK!**

Deriva Maxima en el Sentido Transversal: **0.28%** <= 1.00% **OK!**

9.2 UMBRAL DE DAÑO

Deriva Maxima en el Sentido Longitudinal: **0.14%** <= 0.40% **OK!**

Deriva Maxima en el Sentido Transversal: **0.22%** <= 0.40% **OK!**



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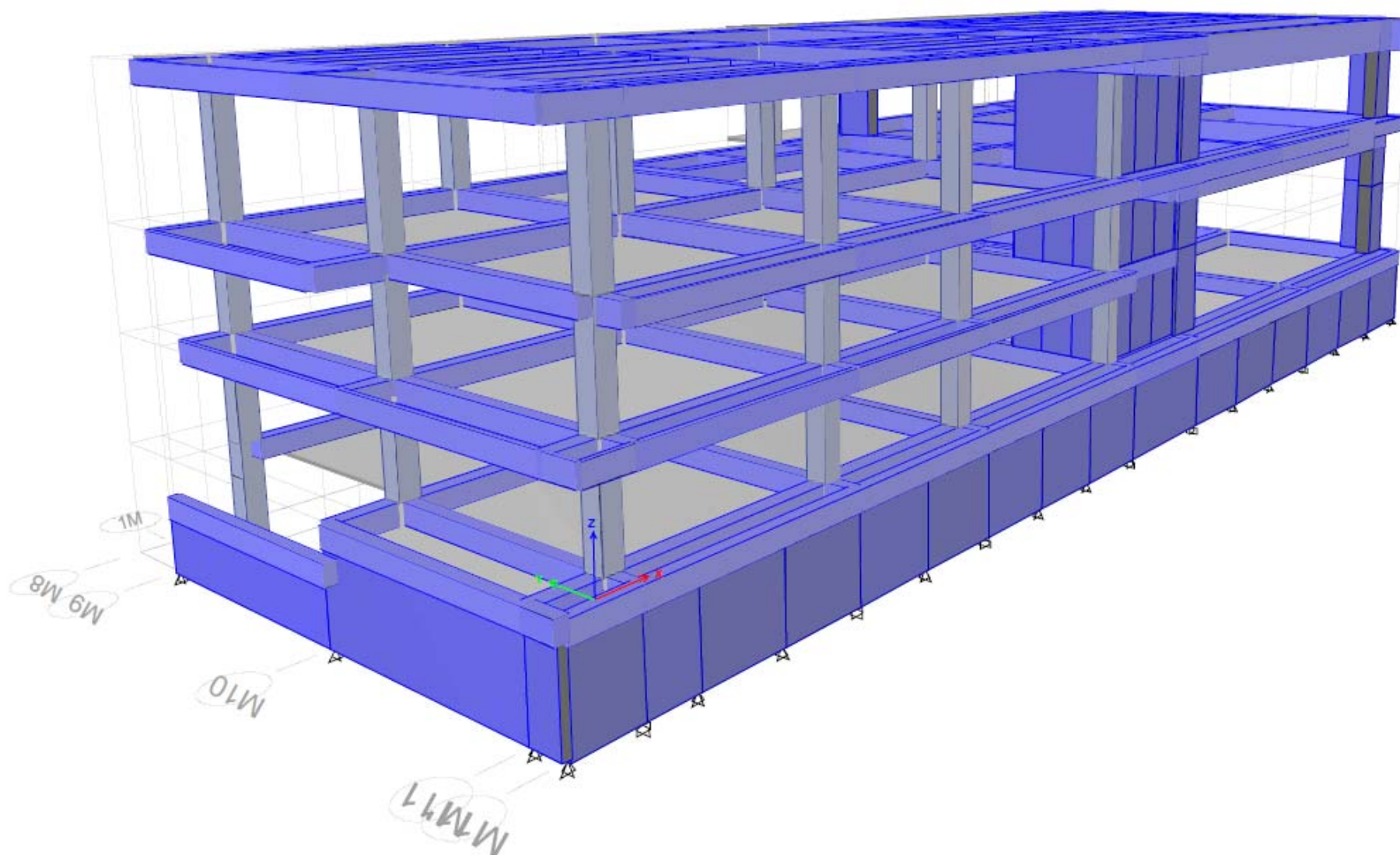
ANEXOS

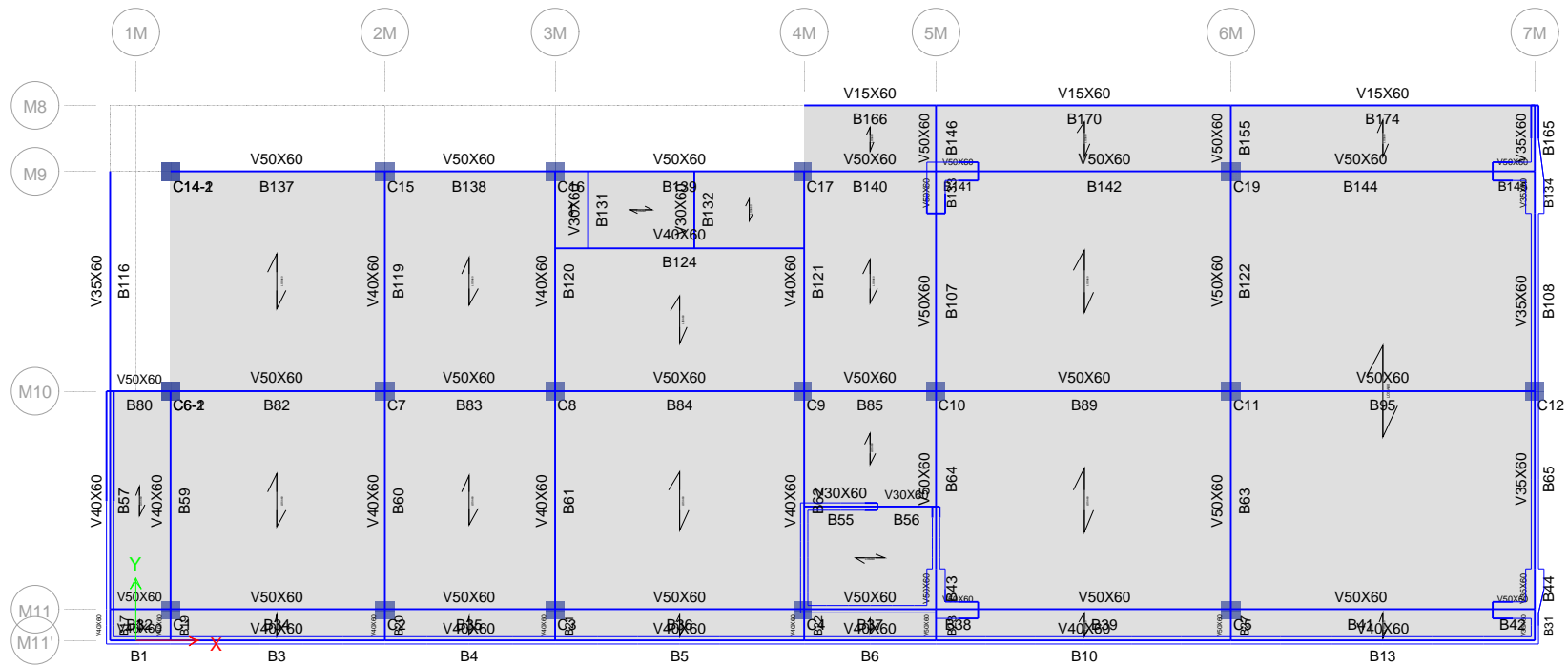
- 1. ESQUEMAS DEL MODELO**
- 2. AVALUO DE CARGAS**
 - 2.1. AVALUO DE CARGAS VERTICALES
 - 2.2. ESPECTRO DE DISEÑO
 - 2.3. REVISION DE IRREGULARIDADES
 - 2.4. COMBINACIONES DE CARGA
 - 2.5. ANALISIS DE VIENTO
 - 2.6. AJUSTE DE CORTANTE SISMICA EN LA BASE
 - 2.7. RESUMEN DE CARGAS SISMICAS
- 3. ANALISIS ESTRUCTURAL**
- 4. CHEQUEO DE DERIVAS**
- 5. DISEÑO DE ELEMENTOS ESTRUCTURALES**
 - 5.1. DISEÑO DE PANTALLAS
 - 5.2. DISEÑO DE COLUMNAS
 - 5.3. DISEÑO DE VIGAS
 - 5.4. DISEÑO DE ESTRUCTURA METALICA
 - 5.5. CHEQUEO DE CONFINAMIENTO
 - 5.6. CHEQUEO DE COLUMNA FUERTE-VIGA DEBIL
- 6. DISEÑO DE CIMENTACION**
 - 6.1. ESQUEMAS DE REACCIONES
 - 6.2. LISTADO DE REACCIONES
 - 6.3. CAPACIDAD DE PILOTES
 - 6.4. DISEÑO DE CABEZALES
- 7. DISEÑO DE ELEMENTOS NO ESTRUCTURALES**

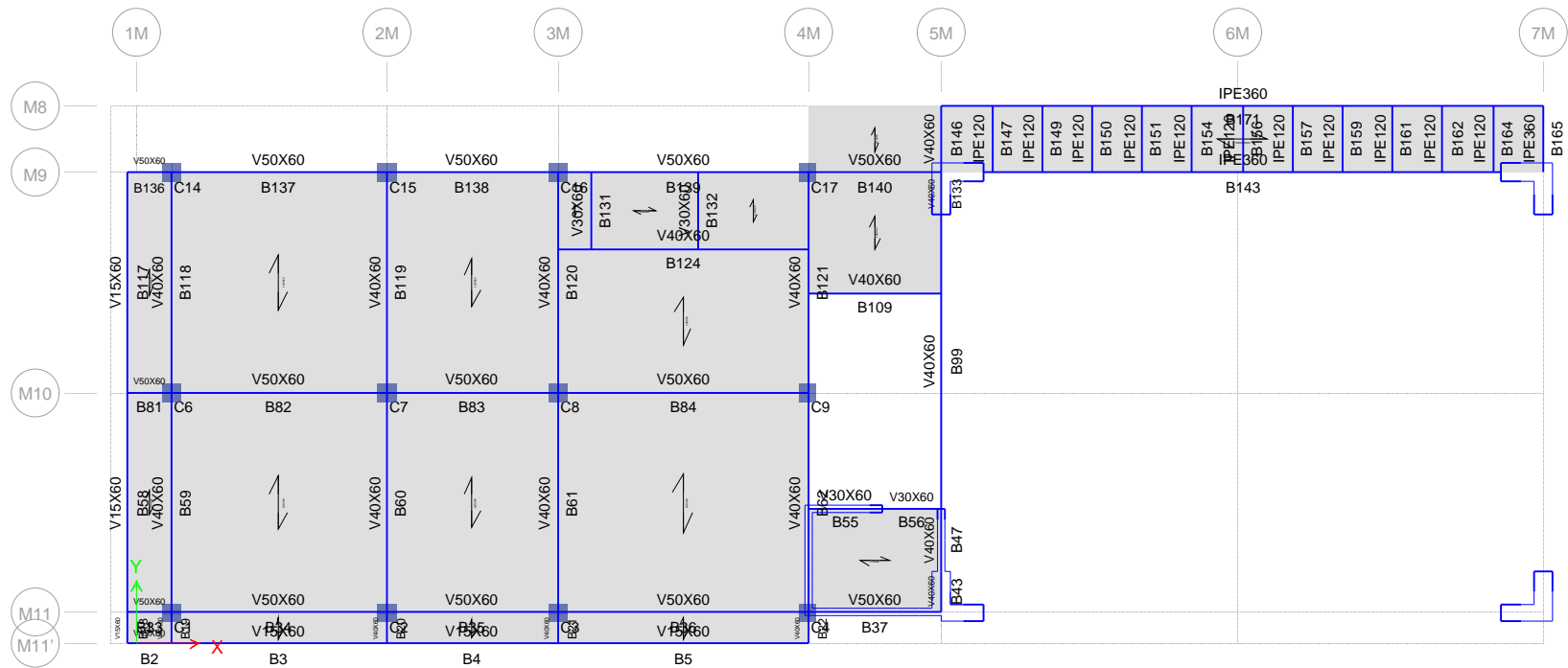


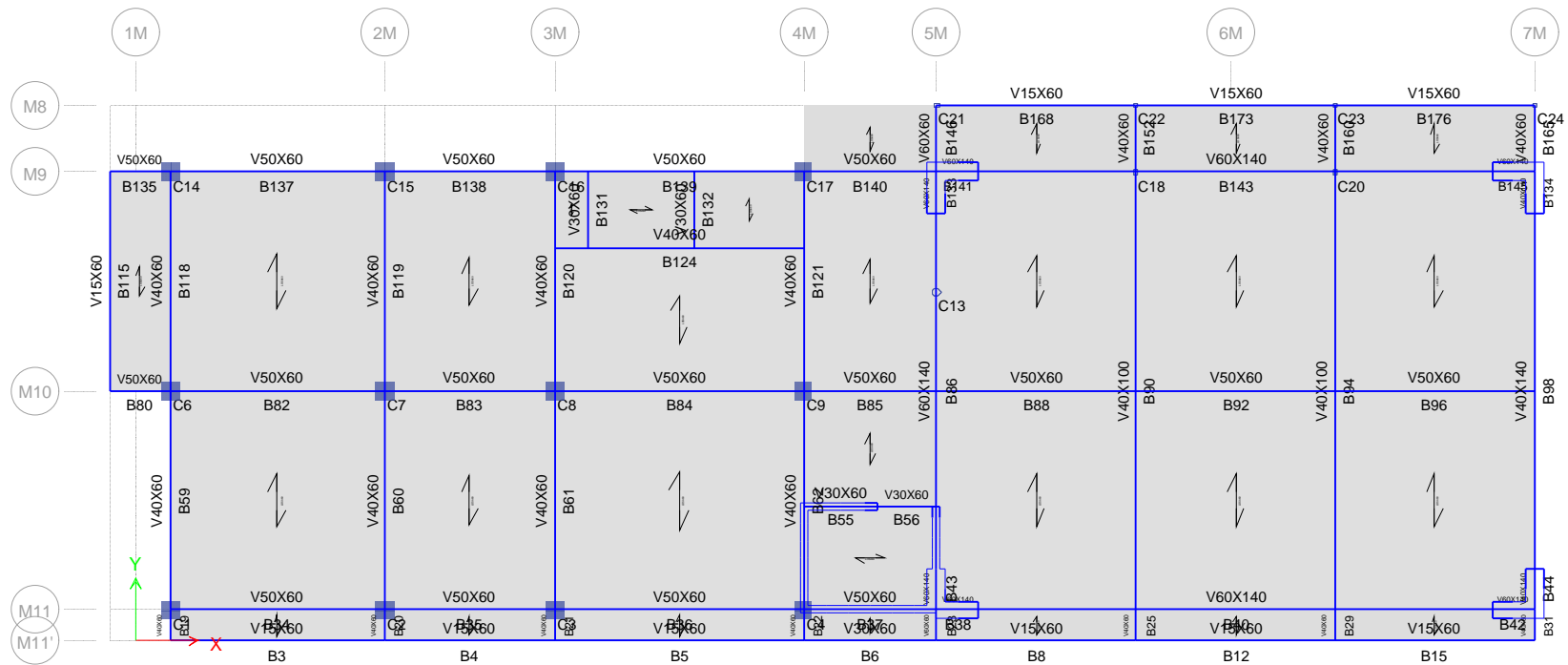
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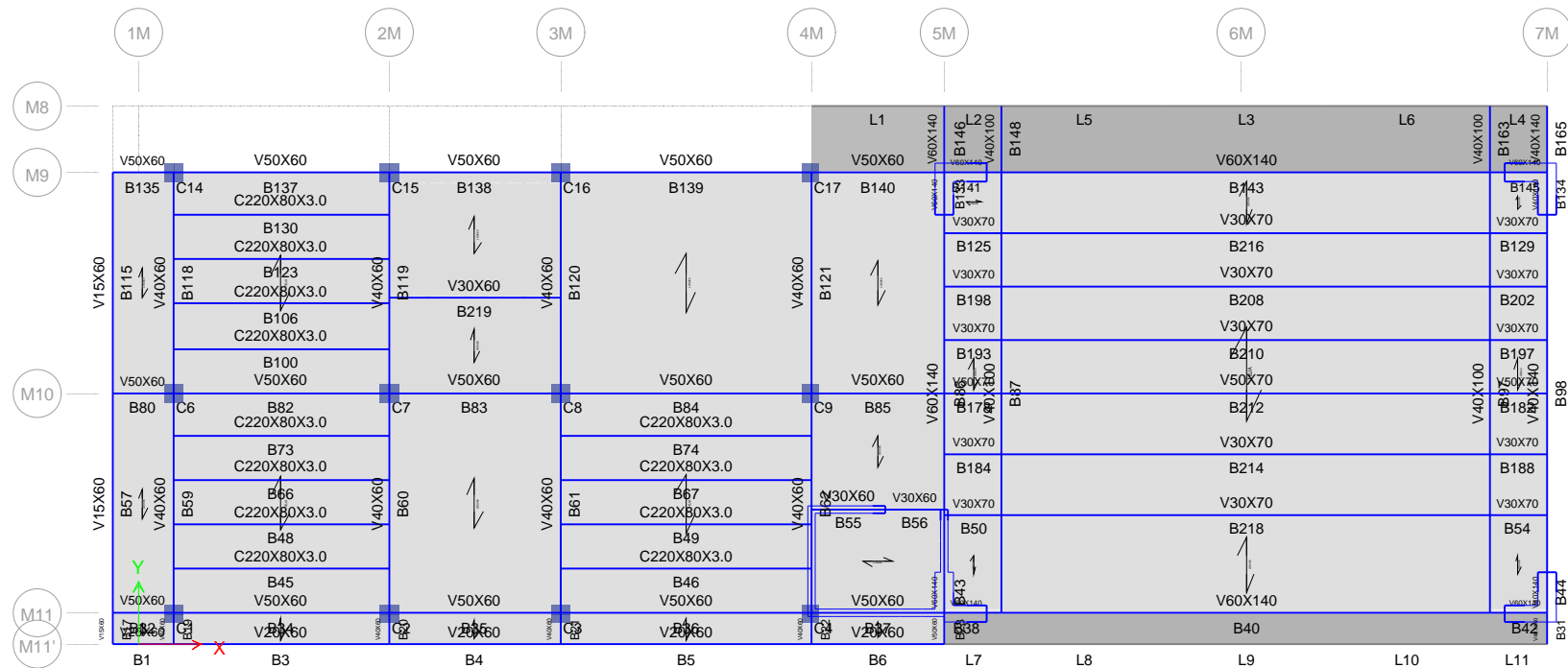
ANEXO 1 . ESQUEMAS DEL MODELO

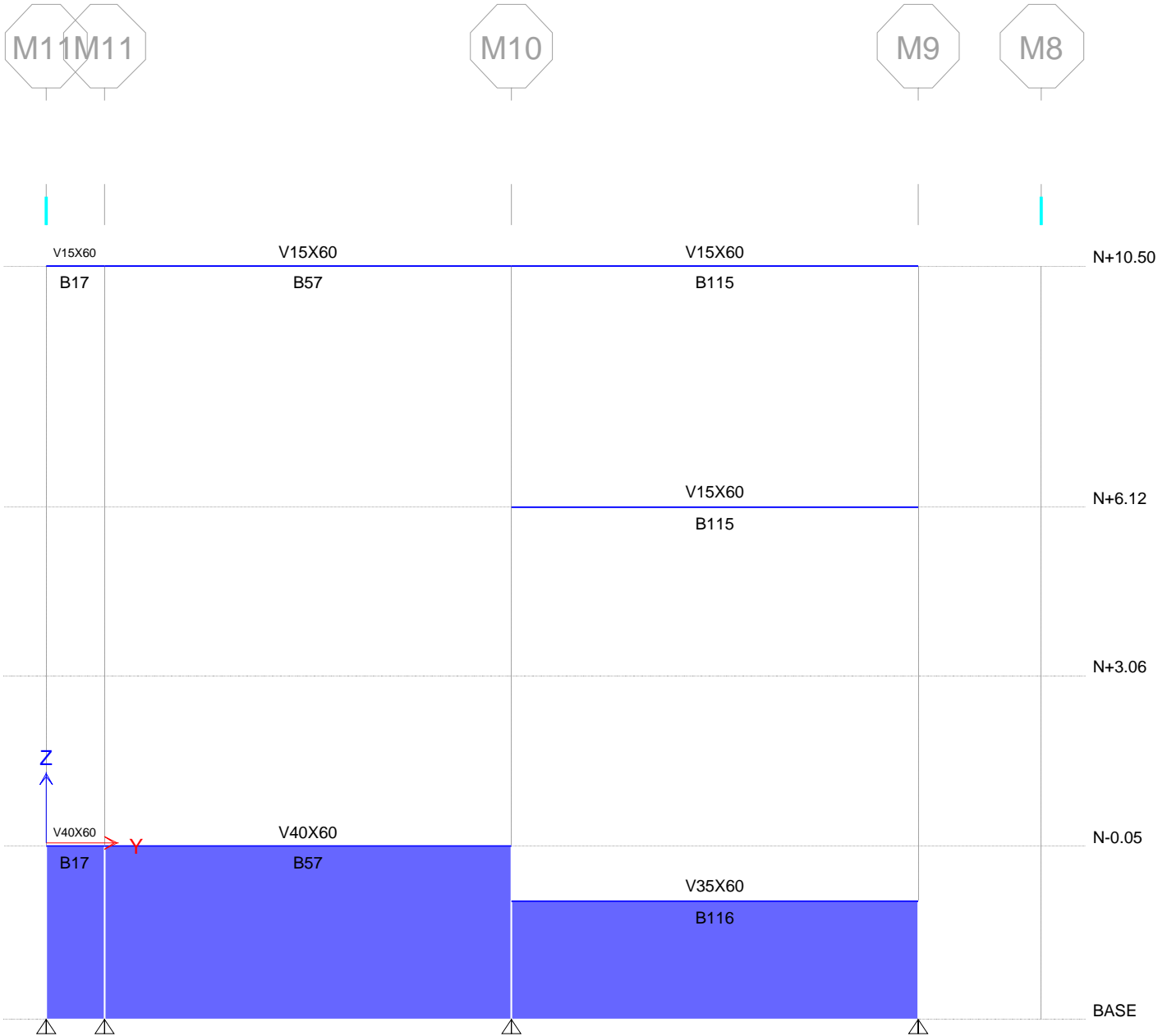


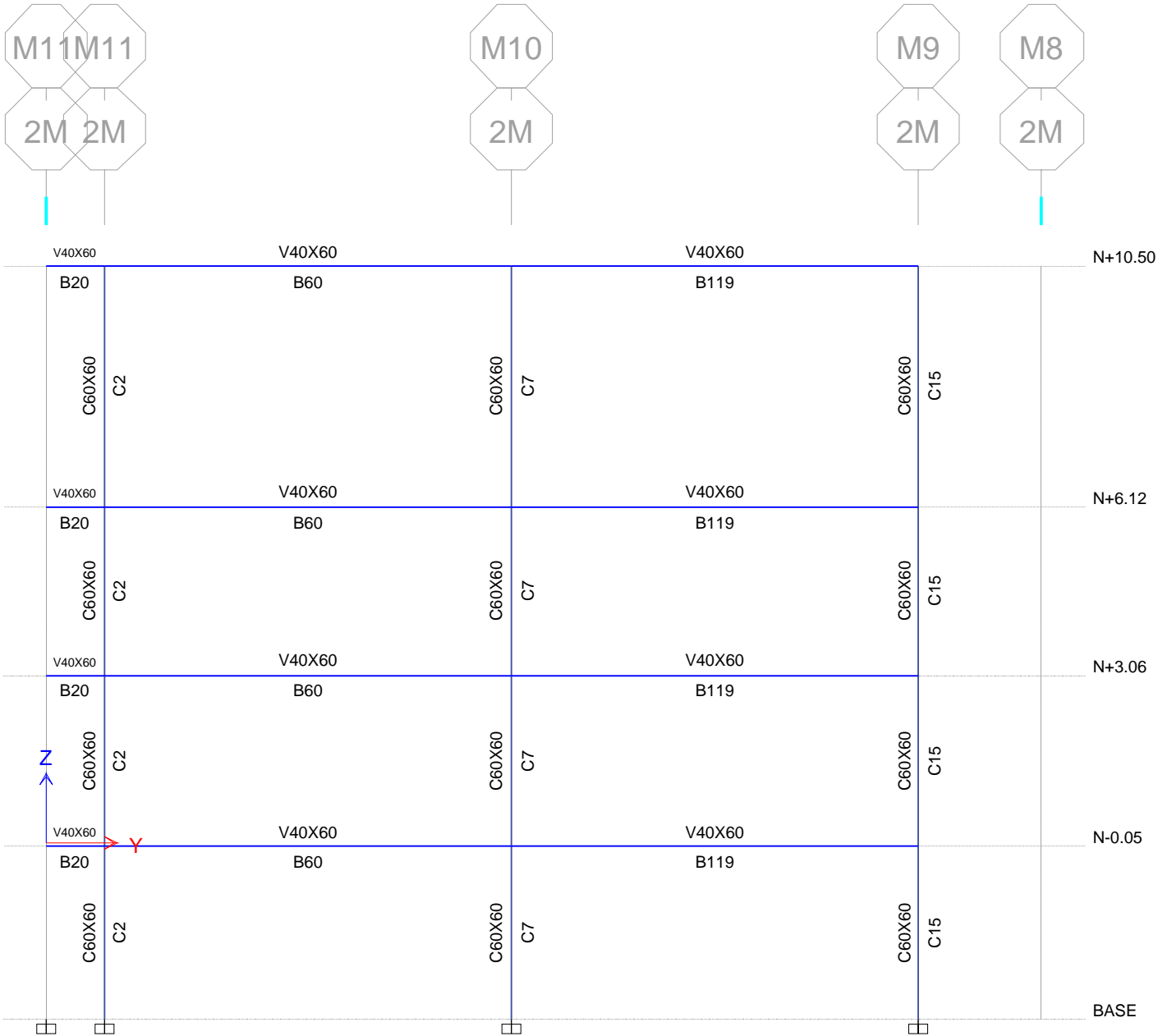


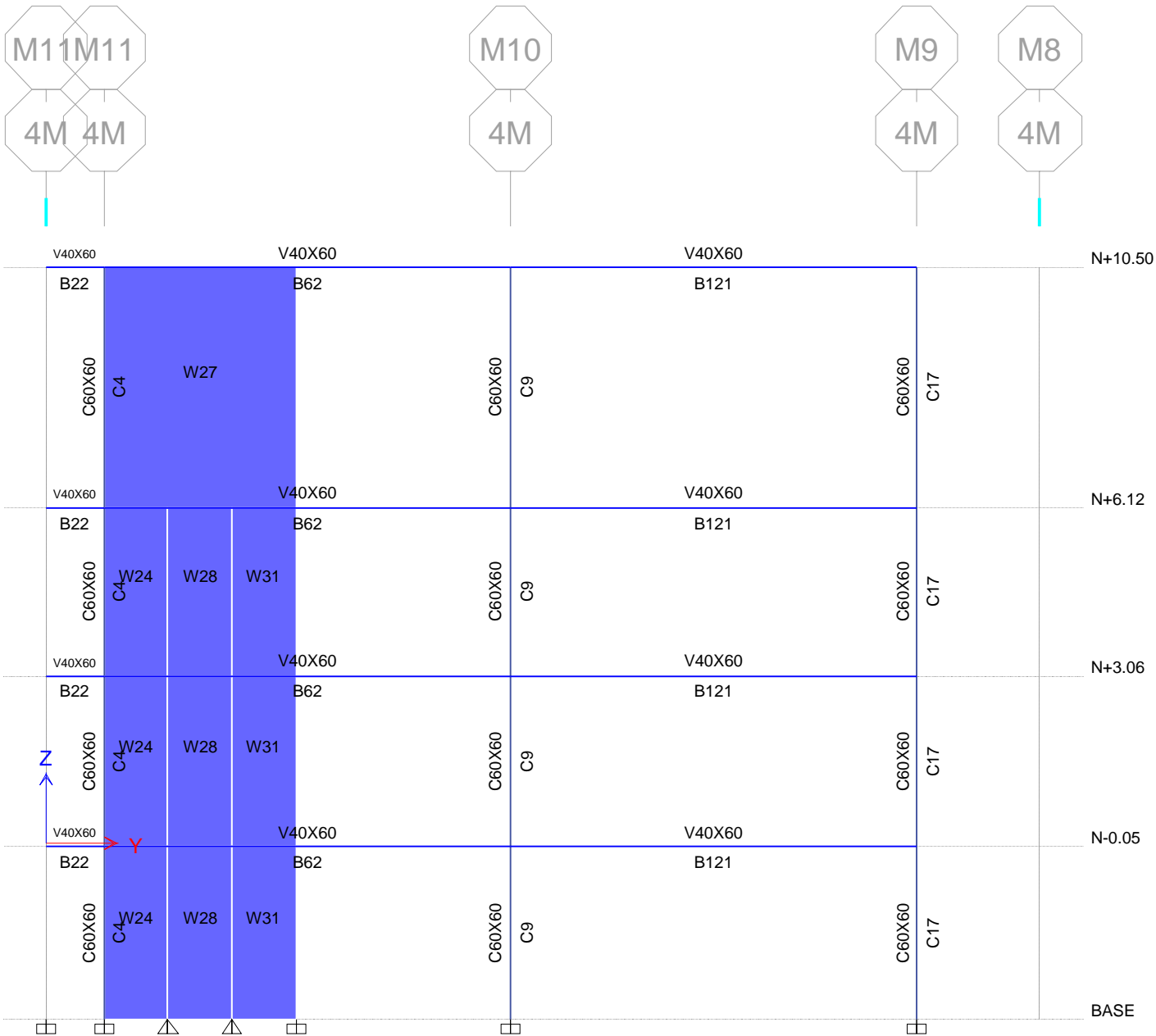


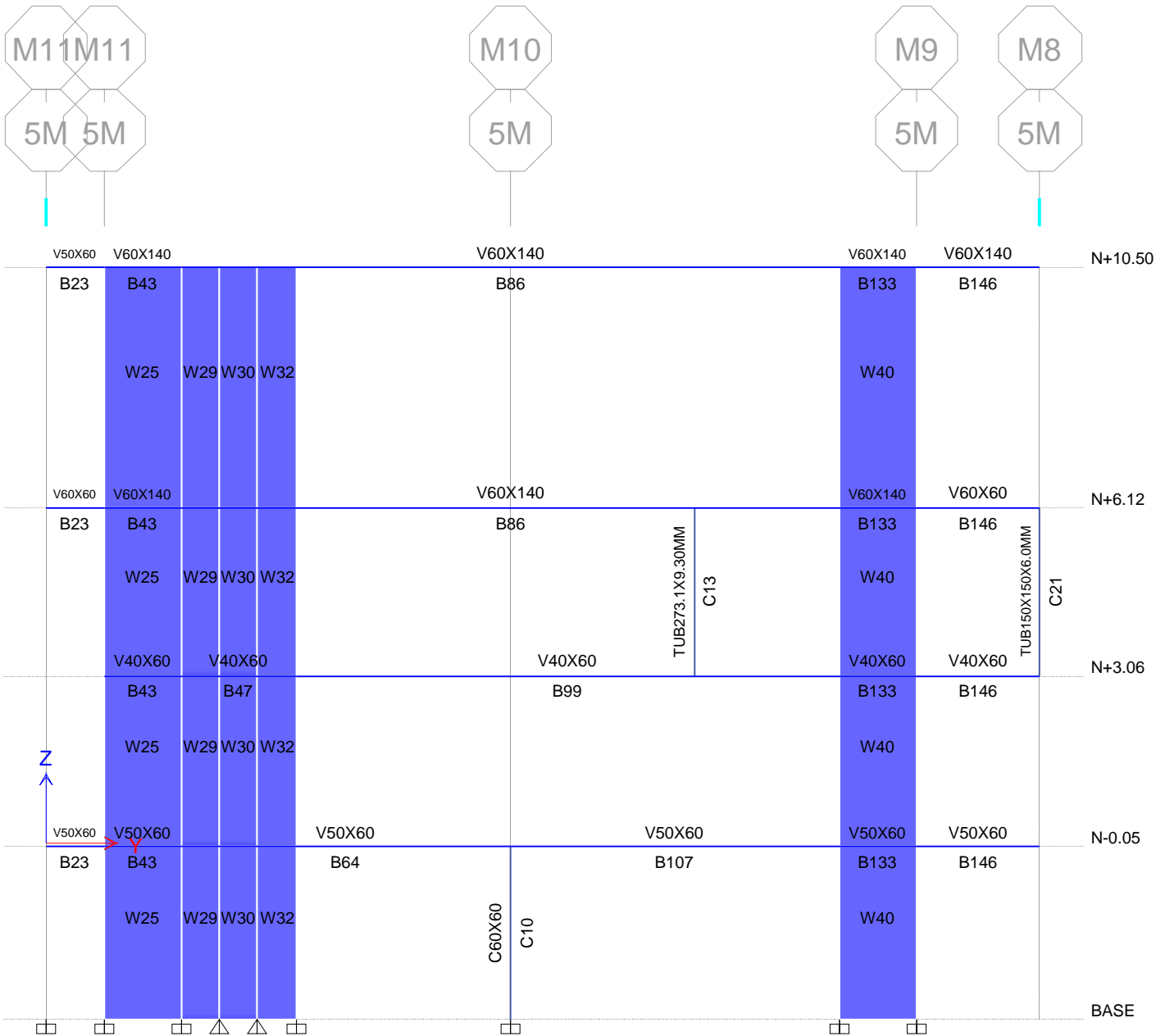


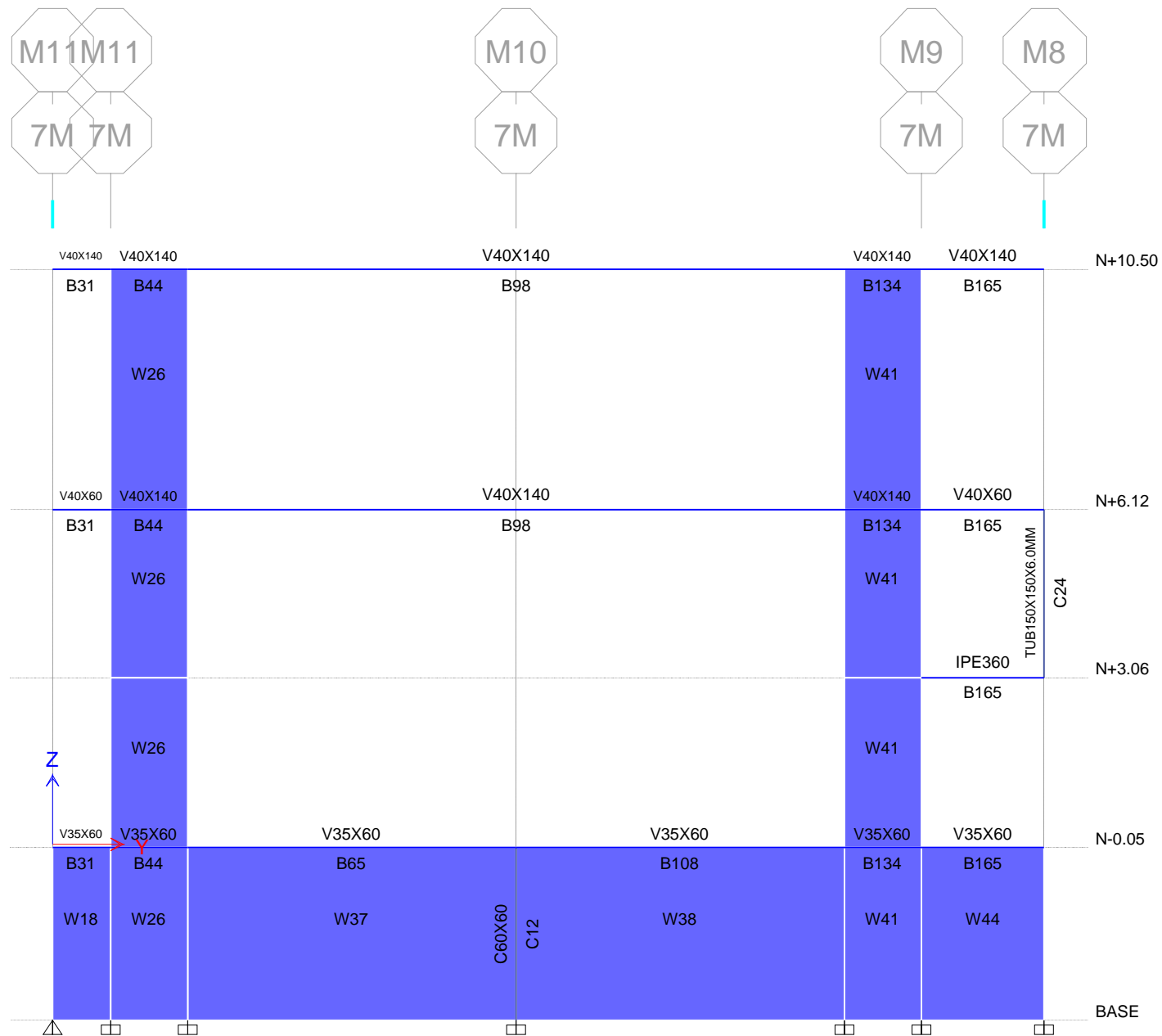


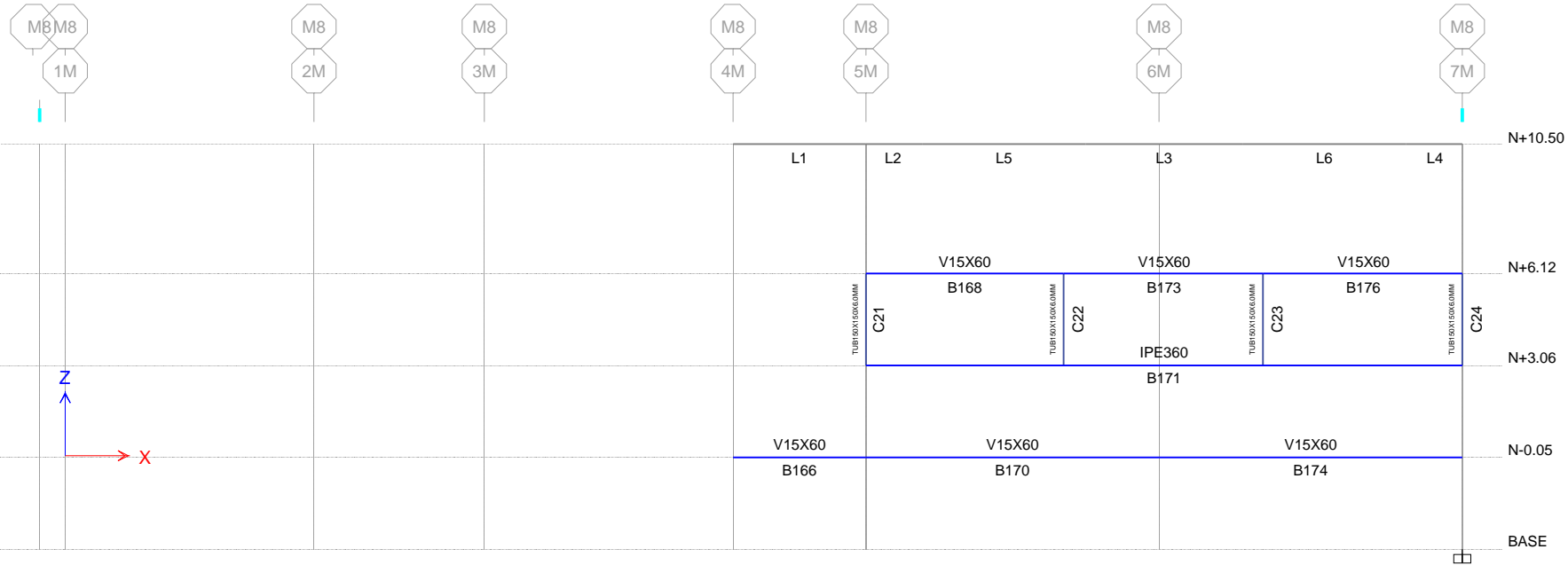


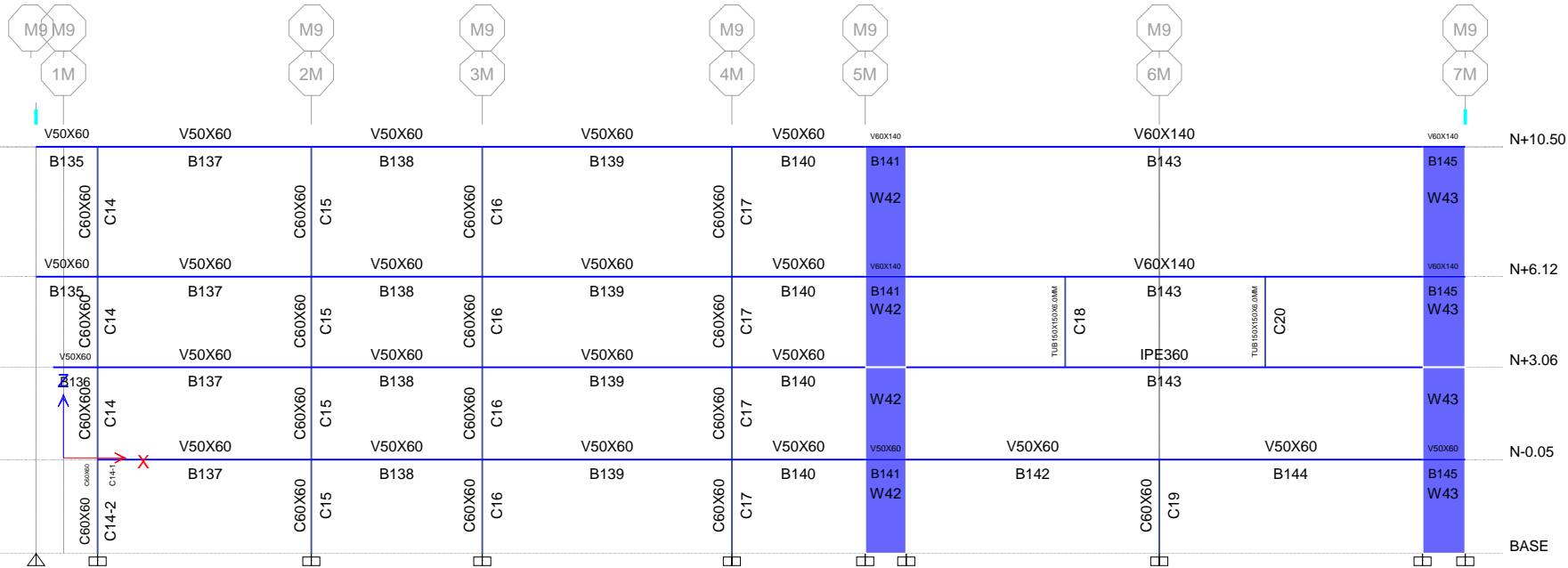














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ANEXO 2 . AVALUO DE CARGAS



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ANEXO 2.1. AVALUO DE CARGAS VERTICALES



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AVALUO DE CARGAS LOSA - N-0.05 NORMA NSR-10

PESO DE LA LOSA

T:	60	Cm	(Espesor total de losa)
T^{sup}:	10	Cm	(Espesor Loseta Superior)
T^{inf}:	0	Cm	(Espesor Loseta Superior)
Sep:	97	Cm	(Separacion de Viguetas entre ejes)
t^{vig}:	12	Cm	(Ancho de Vigüeta)
Sep:	300	Cm	(separacion de Riostras)
t^{rios}:	10	Cm	(ancho de Riostra)

Peso Loseta Superior:	240.00	Kg/m²
Peso Loseta Inferior:	0.00	Kg/m²
Peso Viguetas:	148.45	Kg/m²
Peso Riostras:	40.00	Kg/m²
Peso Casetón:	30.00	Kg/m²

Peso Acabados **250.00** **Kg/m²**

Peso Divisiones **250.00** **Kg/m²**

CM: **958** **Kg/m²** **Total Carga Muerta**
9.58 **KN/m²**

CARGAS VIVAS - REF: CAPITULO B-4

CM: **200** **Kg/m²** **Total Carga Viva**
2.0 **KN/m²**

FACTORES DE CARGA

Wu: **1.4D** **1341.84** **Kg/m²**

Wu: **1.2D+1.6L** **1470.14** **Kg/m²**

FC: **1.27**

PESO DE MUROS

Altura Libre: **3.00** **mt**
Ancho del Muro: **12** **cm**

Peso del muro por metro lineal: **648** **kg/m** Muro en Arcilla
792 **kg/m** Muro en Bloque de Concreto



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AVALUO DE CARGAS LOSA - N+3.06 **NORMA NSR-10**

PESO DE LA LOSA

T:	60	Cm	(Espesor total de losa)
T^{sup}:	8	Cm	(Espesor Loseta Superior)
T^{inf}:	0	Cm	(Espesor Loseta Superior)
Sep:	97	Cm	(Separacion de Viguetas entre ejes)
t^{vig}:	12	Cm	(Ancho de Vigueta)
Sep:	300	Cm	(separacion de Riostras)
t^{rios}:	10	Cm	(ancho de Riostra)

Peso Loseta Superior:	192.00	Kg/m2
Peso Loseta Inferior:	0.00	Kg/m2
Peso Viguetas:	154.39	Kg/m2
Peso Riostras:	41.60	Kg/m2
Peso Casetón:	30.00	Kg/m2

Peso Acabados **250.00** **Kg/m2**

Peso Divisiones **250.00** **Kg/m2**

CM: **918** **Kg/m2** **Total Carga Muerta**
9.18 **KN/m2**

CARGAS VIVAS - REF: CAPITULO B-4

CM: **200** **Kg/m2** **Total Carga Viva**
2.0 **KN/m2**

FACTORES DE CARGA

Wu: **1.4D** **1285.19** **Kg/m2**

Wu: **1.2D+1.6L** **1421.59** **Kg/m2**

FC: **1.27**

PESO DE MUROS

Altura Libre: **3.00** **mt**
Ancho del Muro: **12** **cm**

Peso del muro por metro lineal: **648** **kg/m** Muro en Arcilla
792 **kg/m** Muro en Bloque de Concreto



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AVALUO DE CARGAS LOSA - N+6.12 **NORMA NSR-10**

PESO DE LA LOSA

T:	60	Cm	(Espesor total de losa)
T^{sup}:	8	Cm	(Espesor Loseta Superior)
T^{inf}:	0	Cm	(Espesor Loseta Superior)
Sep:	97	Cm	(Separacion de Viguetas entre ejes)
t^{vig}:	12	Cm	(Ancho de Vigueta)
Sep:	300	Cm	(separacion de Riostras)
t^{rios}:	10	Cm	(ancho de Riostra)

Peso Loseta Superior:	192.00	Kg/m2
Peso Loseta Inferior:	0.00	Kg/m2
Peso Viguetas:	154.39	Kg/m2
Peso Riostras:	41.60	Kg/m2
Peso Casetón:	30.00	Kg/m2

Peso Acabados **250.00** **Kg/m2**

Peso Divisiones **250.00** **Kg/m2**

CM:	918	Kg/m2	Total Carga Muerta
	9.18	KN/m2	

CARGAS VIVAS - REF: CAPITULO B-4

CM:	500	Kg/m2	Total Carga Viva
	5.0	KN/m2	

FACTORES DE CARGA

Wu:	1.4D	1285.19	Kg/m2
Wu:	1.2D+1.6L	1901.59	Kg/m2
FC:	1.34		

PESO DE MUROS

Altura Libre:	3.00	mt
Ancho del Muro:	12	cm

Peso del muro por metro lineal:	648	kg/m	Muro en Arcilla
	792	kg/m	Muro en Bloque de Concreto



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AVALUO DE CARGAS LOSA - N+10.50 **NORMA NSR-10**

PESO DE LA LOSA

T:	60	Cm	(Espesor total de losa)
T^{sup}:	8	Cm	(Espesor Loseta Superior)
T^{inf}:	0	Cm	(Espesor Loseta Superior)
Sep:	97	Cm	(Separacion de Viguetas entre ejes)
t^{vig}:	12	Cm	(Ancho de Vigüeta)
Sep:	300	Cm	(separacion de Riostras)
t^{rios}:	10	Cm	(ancho de Riostra)

Peso Loseta Superior:	192.00	Kg/m2
Peso Loseta Inferior:	0.00	Kg/m2
Peso Viguetas:	154.39	Kg/m2
Peso Riostras:	41.60	Kg/m2
Peso Casetón:	30.00	Kg/m2

Peso Acabados **150.00** **Kg/m2**

Peso Divisiones **100.00** **Kg/m2**

CM:	668	Kg/m2	Total Carga Muerta
	6.68	KN/m2	

CARGAS VIVAS - REF: CAPITULO B-4

CM:	300	Kg/m2	Total Carga Viva
	3.0	KN/m2	

CARGA DE GRANIZO - REF: CAPITULO B-4

CM:	100	Kg/m2	Total Carga de Granizo
	1.0	KN/m2	

FACTORES DE CARGA

Wu:	1.4D	935.19	Kg/m2
Wu:	1.2D+1.6L+0.5G	1331.59	Kg/m2
Wu:	1.2D+1.6G+1.0L	1261.59	Kg/m2

FC: **1.25**

PESO DE MUROS

Altura Libre:	3.00	mt
Ancho del Muro:	12	cm

Peso del muro por metro lineal:	648	kg/m	Muro en Arcilla
	792	kg/m	Muro en Bloque de Concreto



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ANEXO 2.2 ESPECTRO DE DISEÑO

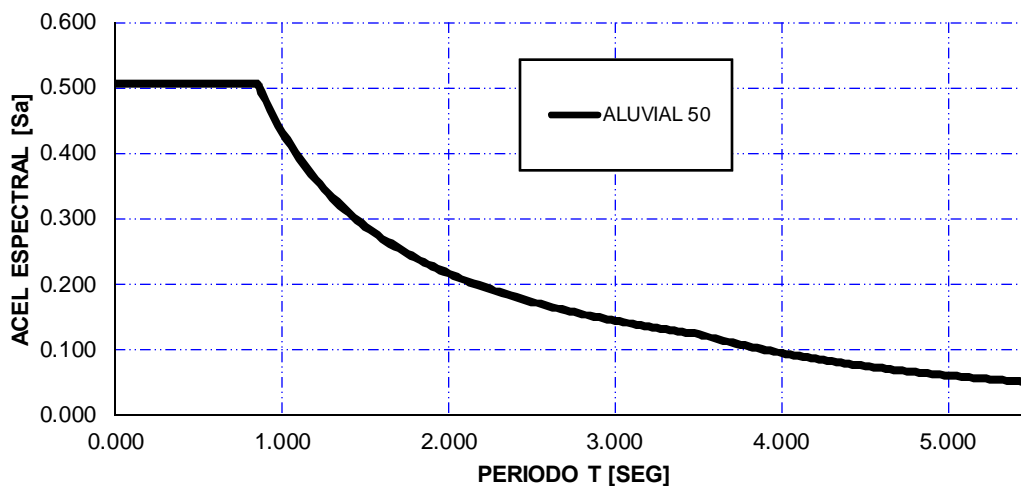
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ESPECTRO DE DISEÑO MICROZONIFICACIÓN SÍSMICA BOGOTA

BOGOTA		ALUVIAL50	
Aa =	0.15	Fa :	1.35
Av =	0.20	Fv :	1.80
		Tc (s):	0.85
		TL (s):	3.50
		Ao (g):	0.20
		I:	1.00

A.6.2.1.2 →

ESPECTRO DE DISEÑO



Aceleraciones Espectrales para diferentes Periodos

	T [seg]	Sa [g]
Modo 1:		
Modo 2:		
Modo 3:		
Modo 4:		
Modo 5:		
Modo 6:		
Modo 7:		
Modo 8:		
Modo 9:		
Modo 10:		

NOTA: El literal **A.6.2.1.2** permite que al calcular desplazamientos horizontales se use el coeficiente de importancia con un valor igual a la unidad ($I=1.0$).

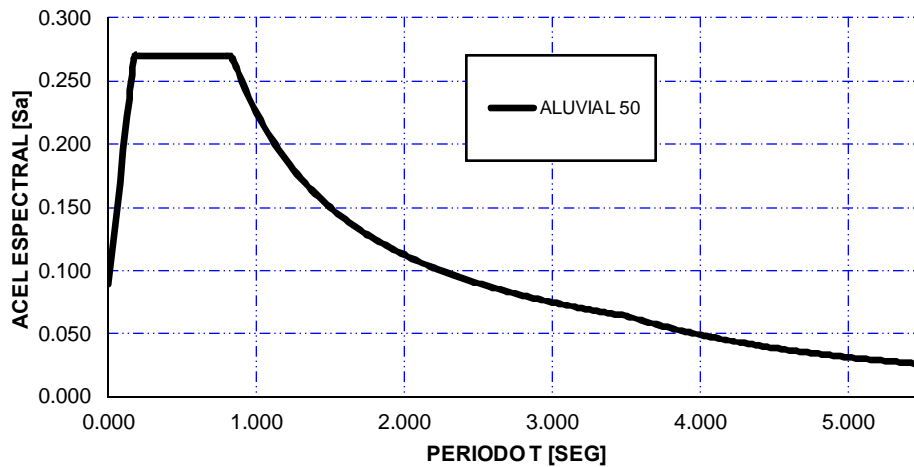


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UMBRAL DE DAÑO MICROZONIFICACIÓN SÍSMICA BOGOTA

BOGOTA		ALUVIAL50	
Ae =	0.13	Fa :	1.50
		Fv :	2.50
		Tc (s):	0.83
		TL (s):	3.50
		Ao (g):	0.09

ESPECTRO PARA UMBRAL DE DAÑO



Aceleraciones Espectrales para diferentes Periodos

	T [seg]	Sa [g]
Modo 1:		
Modo 2:		
Modo 3:		
Modo 4:		
Modo 5:		
Modo 6:		
Modo 7:		
Modo 8:		
Modo 9:		
Modo 10:		



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ANEXO 2.3. REVISION DE IRREGULARIDADES

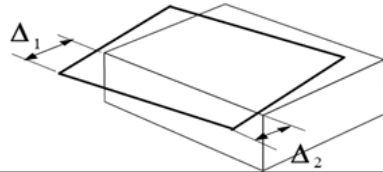


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REVISION DE IRREGULARIDADES NORMA NSR-10

IRREGULARIDADES EN PLANTA, Referencia Tabla A.3-6, Figura A.3-1

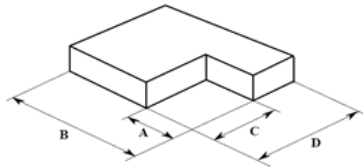
Tipo 1P



Tipo 1aP - Irregularidad Torsional $\phi_p=0.9$
Tipo 1bP - Irregularidad Torsional Extrema $\phi_p=0.8$

Δ_1 : % ϕ_p :
 Δ_2 : %

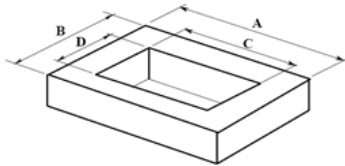
Tipo 2P



Tipo 2P - Retrocesos en las esquinas

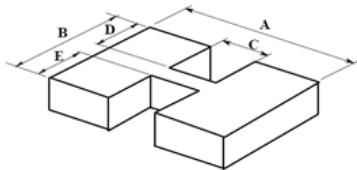
A: m
B: m ϕ_p :
C: m
D: m

Tipo 3P



Tipo 3P - Irregularidad del diafragma

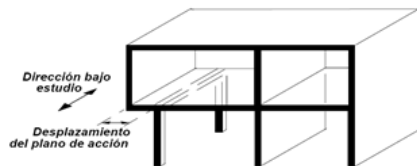
A: m
B: m ϕ_p :
C: m
D: m



Tipo 3P - Irregularidad del diafragma

A: m
B: m ϕ_p :
C: m
D: m
E: m

Tipo 4P



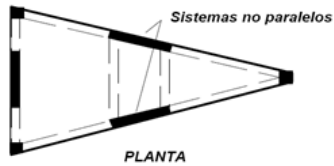
Tipo 4P - Desplazamiento del planos de acción $\phi_p=0.8$

ϕ_p :



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Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATINO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

Tipo 5P

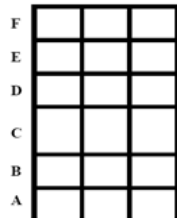


Tipo 5P - Sistemas no paralelos $\phi_p=0.9$

ϕ_p : **1.0**

IRREGULARIDADES EN ALZADA, Referencia Tabla A.3-7, Figura A.3-2

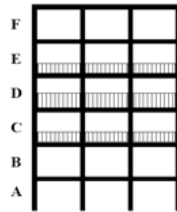
Tipo 1A.



Tipo 1aA - Piso Flexible $\phi_p=0.9$
Tipo 1bA - Piso Flexible Extremo $\phi_p=0.8$

Kc: ϕ_a : **1.0**
Kd:
Ke:
Kf:

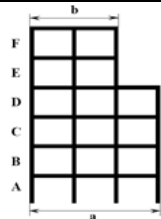
Tipo 2A.



Tipo 2A - Distribucion de Masa $\phi_p=0.9$

Mc: ϕ_a : **1.0**
Md:
Me:

Tipo 3A.



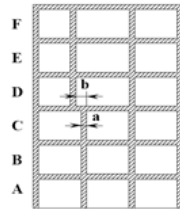
Tipo 3A - Geometrica $\phi_p=0.9$

a: m ϕ_a : **1.0**
b: m



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Tipo 4A.

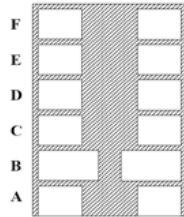


Tipo 4A - Desplazamiento del plano de acción $\phi_a=0.8$

a: m ϕ_a :

b: m

Tipo 5A.



Tipo 5aA - Piso Débil $\phi_p=0.9$
 Tipo 5bA - Piso débil Extremo $\phi_p=0.8$

RpB: ϕ_a :

RpC:

IRREGULARIDAD POR AUSENCIA DE REDUNDANCIA, Referencia A.3.3.8

ϕ_r :

RESUMEN

ϕ_p :

ϕ_a :

ϕ_r :



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ANEXO 2.4. COMBINACIONES DE CARGA



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
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COMBINACIONES DE CARGA - SISMO NORMA NSR-10

R_o :	5	$R = R_o * \phi_p * \phi_a * \phi_r =$	3.75
ϕ_p :	1		
ϕ_a :	1	$E = I * (1/R) * SISMO =$	0.333 * SISMO
ϕ_r :	0.75		
I :	1.25	$0.3E = I * (1/R) * SISMO * 0.3 =$	0.100 * SISMO

COMBINACIONES DE CARGA - DISEÑO DE ELEMENTOS

COMBO	D	L	SISMOX	SISMOY
C1:	1.4			
C2:	1.2	1.6		
C3:	1.2	1	0.333	0.100
C4:	1.2	1	0.333	-0.100
C5:	1.2	1	-0.333	0.100
C6:	1.2	1	-0.333	-0.100
C7:	1.2	1	0.100	0.333
C8:	1.2	1	0.100	-0.333
C9:	1.2	1	-0.100	0.333
C10:	1.2	1	-0.100	-0.333
C11:	0.9		0.333	0.100
C12:	0.9		0.333	-0.100
C13:	0.9		-0.333	0.100
C14:	0.9		-0.333	-0.100
C15:	0.9		0.100	0.333
C16:	0.9		0.100	-0.333
C17:	0.9		-0.100	0.333
C18:	0.9		-0.100	-0.333

1.4D
1.2D+1.6L
1.2D+1.0L+1.0E
0.9D+1.0E

Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

COMBINACIONES DE CARGA - CIMENTACION NORMA NSR-10

Ro:	5	$R = R_o * \phi_p * \phi_a * \phi_r =$	3.75
ϕ_p:	1		
ϕ_a:	1	$0.7E = 0.7 * I * (1/R) * SISMO =$	0.233 * SISMO
ϕ_r:	0.75		
I:	1.25	$0.75 * 0.7E = 0.75 * 0.7 * I * (1/R) * SISMO =$	0.175 * SISMO

COMBINACIONES DE CARGA - DISEÑO DE ELEMENTOS

COMBO	D	L	SISMOX	SISMOY
CIM1:	1			
CIM2:	1	1		
CIM3:	1		0.233	0.070
CIM4:	1		0.070	0.233
CIM5:	1	0.75	0.175	0.053
CIM6:	1	0.75	0.053	0.175
CIM7:	0.6		0.233	0.070
CIM8:	0.6		0.070	0.233

D
D+L
D+0.7E
D+0.75L+0.75(0.7E)
0.6D+0.7E



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
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RESISTENCIA AL CORTANTE COLUMNAS **C.21.3.3.2.b - NORMA NSR-10**

R_o :	5	$R = R_o * \phi_p * \phi_a * \phi_r =$	3.75
ϕ_p :	1	$\Omega * E = 3 * I * (1/R) * SISMO =$	1.000 * SISMO
ϕ_a :	1		
ϕ_r :	0.75		
I :	1.25	$\Omega * 0.3E = \Omega * I * (1/R) * SISMO * 0.3 =$	0.300 * SISMO

COMBINACIONES DE CARGA - DISEÑO DE ELEMENTOS

COMBO	D	L	SISMOX	SISMOY
VnC:1	1.3	1	1.000	0.300
VnC:2	1.3	1	1.000	-0.300
VnC:3	1.1	1	-1.000	0.300
VnC:4	1.1	1	-1.000	-0.300
VnC:5	1.3	1	0.300	1.000
VnC:6	1.1	1	0.300	-1.000
VnC:7	1.3	1	-0.300	1.000
VnC:8	1.1	1	-0.300	-1.000
VnC:9	1.0		1.000	0.300
VnC:10	1.0		1.000	-0.300
VnC:11	0.8		-1.000	0.300
VnC:12	0.8		-1.000	-0.300
VnC:13	1.0		0.300	1.000
VnC:14	0.8		0.300	-1.000
VnC:15	1.0		-0.300	1.000
VnC:16	0.8		-0.300	-1.000

1.2D+1.0L+ Ω *E
 ± 0.5 *Aa*Fa*D

0.9D+ Ω *E
 ± 0.5 *Aa*Fa*D



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

RESISTENCIA AL CORTANTE VIGAS C.21.3.3.1.b - NORMA NSR-10

R_o :	5	$R = R_o * \phi_p * \phi_a * \phi_r =$	3.75
ϕ_p :	1		
ϕ_a :	1	$2 * E = 2 * I * (1/R) * SISMO =$	0.667 * SISMO
ϕ_r :	0.75		
I :	1.25	$2 * 0.3E = 2 * I * (1/R) * SISMO * 0.3 =$	0.200 * SISMO

COMBINACIONES DE CARGA - DISEÑO DE ELEMENTOS

COMBO	D	L	SISMOX	SISMOY
VnV:1	1.2	1	0.667	0.200
VnV:2	1.2	1	0.667	-0.200
VnV:3	1.2	1	-0.667	0.200
VnV:4	1.2	1	-0.667	-0.200
VnV:5	1.2	1	0.200	0.667
VnV:6	1.2	1	0.200	-0.667
VnV:7	1.2	1	-0.200	0.667
VnV:8	1.2	1	-0.200	-0.667
VnV:9	0.9		0.667	0.200
VnV:10	0.9		0.667	-0.200
VnV:11	0.9		-0.667	0.200
VnV:12	0.9		-0.667	-0.200
VnV:13	0.9		0.200	0.667
VnV:14	0.9		0.200	-0.667
VnV:15	0.9		-0.200	0.667
VnV:16	0.9		-0.200	-0.667

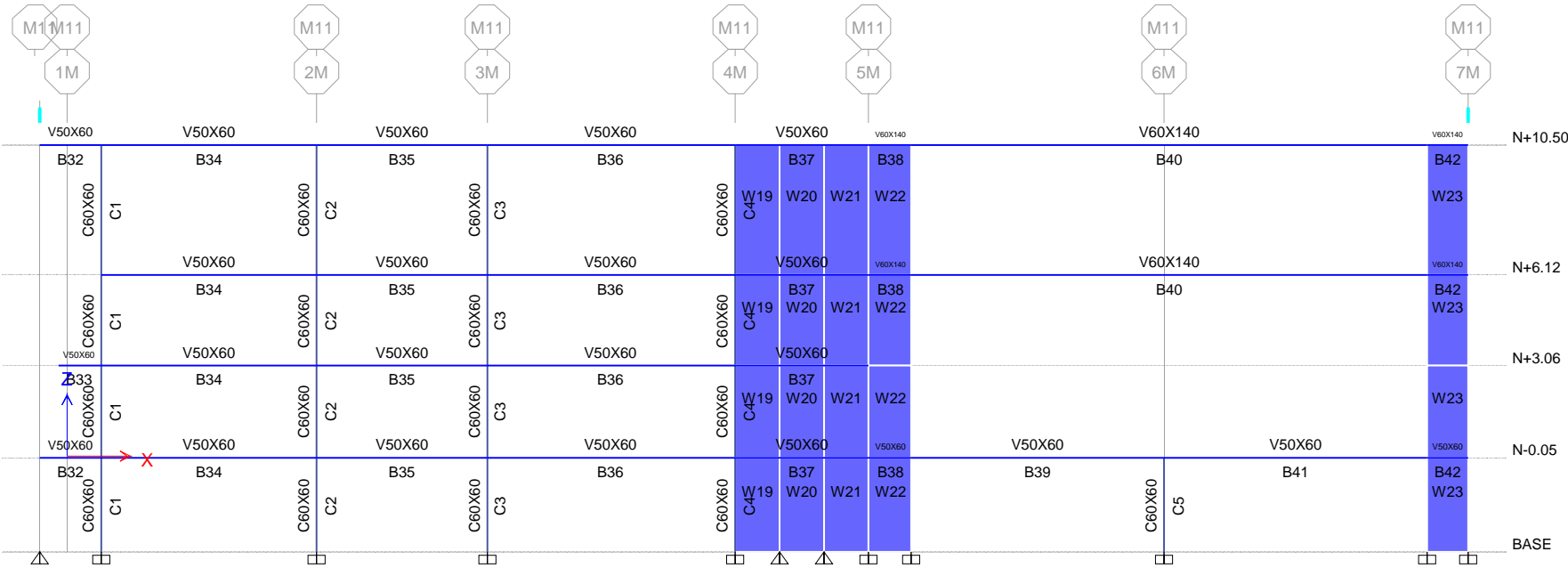
1.2D+1.0L+2*E

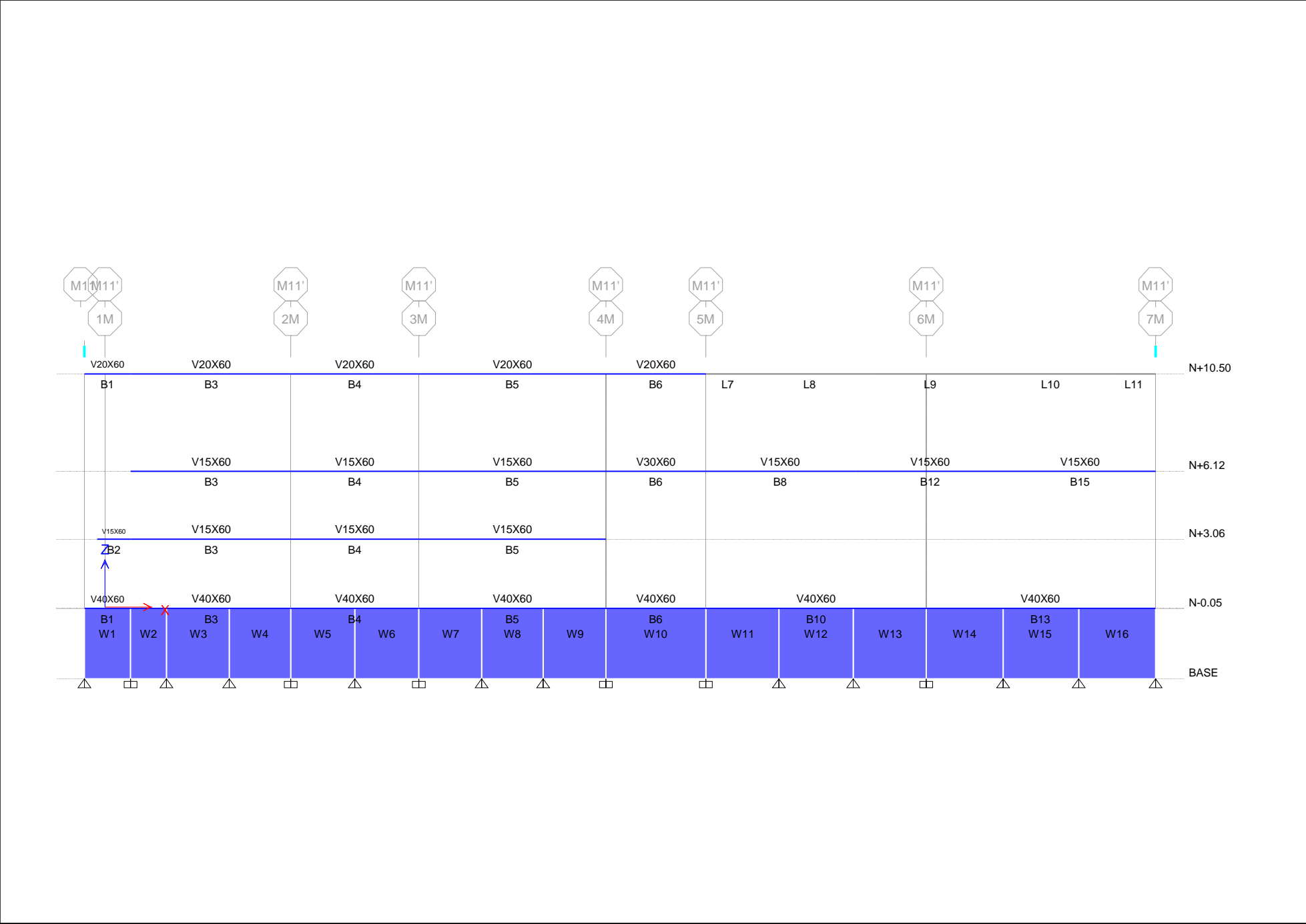
0.9D+2*E

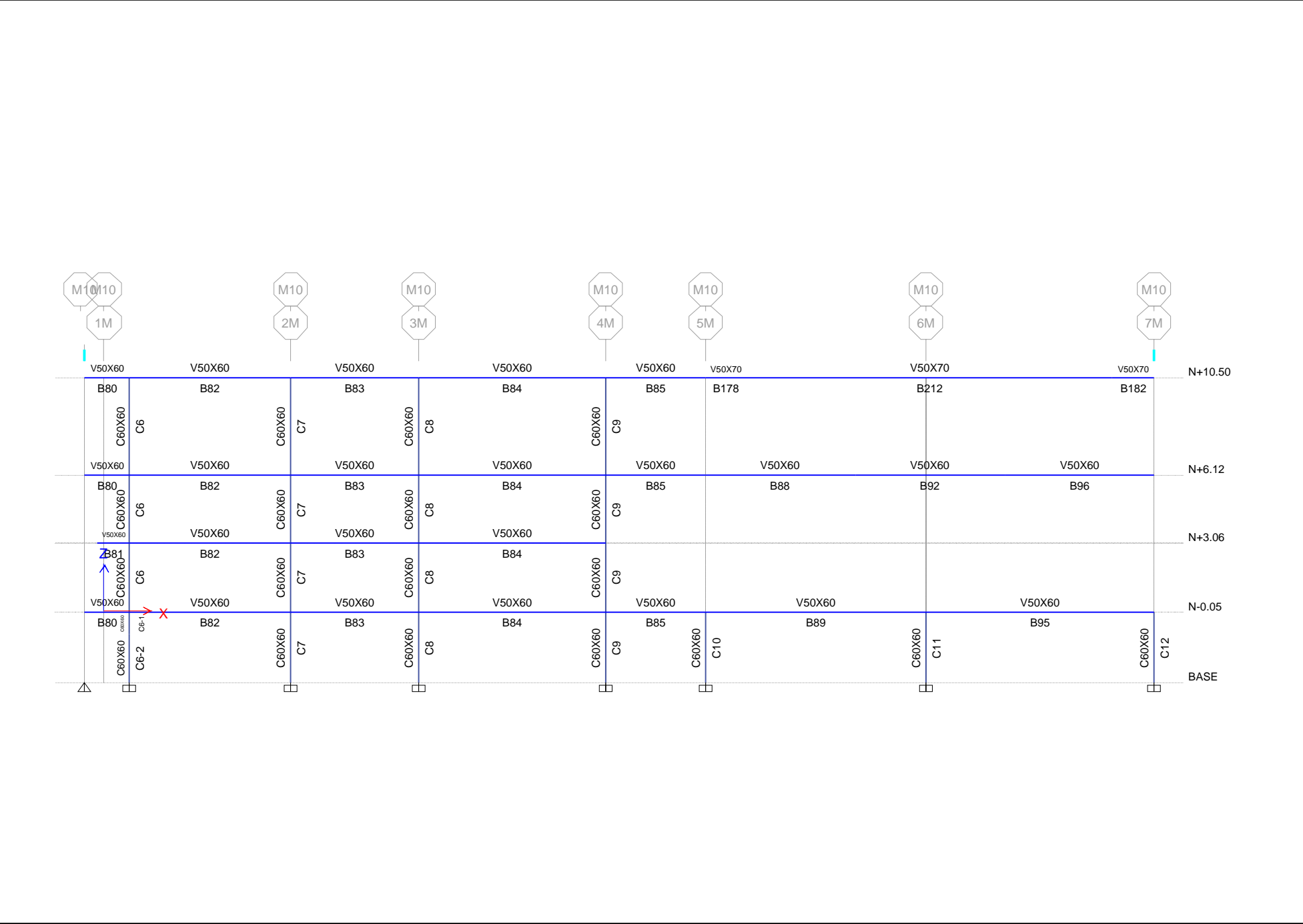


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Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 2.5. ANALISIS DE VIENTO







ANÁLISIS DE CARGA DE VIENTO

NSR -10 Edificaciones cerradas con $h \leq 18\text{m}$ y cubiertas con $\theta \leq 45^\circ$

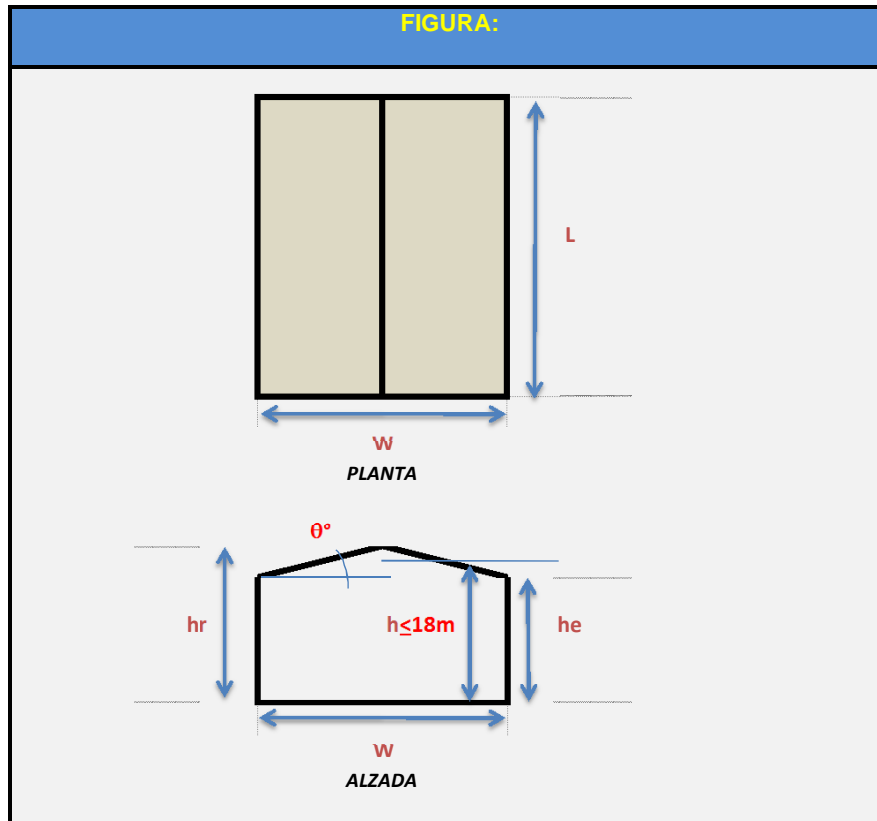
Método 1: Procedimiento simplificado (B.6.4)

proyecto:	Colegio y Teatro El Ensueño	Ingeniero:	Juan Carlos Patiño
Proyecto No.:	2765	Fecha:	Abril - 2016

Datos de entrada:

Velocidad del viento, $V =$	22 m/s (80Km/h)	(Figura B.6.4-1)
Factor de Importancia, $I =$	III	(Ver Tabla A.2.5-1 / Según grupo de uso)
Categoría de exposición =	C	(B.6.5.6.3)
Altura de la cumbrera, $h_r =$	10.50	m ($h_r \geq h_e$)
Altura de la cornisa, $h_e =$	10.50	m ($h_e \leq h_r$)
Ancho del edificio, $W =$	15.85	m (Perpendicular a la cumbrera)
Dimension Horizontal del Edificio, $L =$	47.25	m (Paralelo a la cumbrera)
Tipo de cubierta =	plana	(plana - 1 agua - 2 aguas)
Factor topografico, $K_{zt} =$	1.00	(B.6.5.7 Y Figura 6.5-1)
C&R en fachada =	Correas	(correas de fachada, tejas de fachadas o fijaciones)
C&R Area efectiva en fachada =	6.75	m ² (Componentes/revestimientos)
C&R en cubierta =	Correas	(correas de cubierta, tejas de cubiertas o fijaciones)
C&R Area efectiva en cubierta =	12.00	m ² (Componentes/revestimientos)
Area efectiva en aleros =	0.00	m ² (Componentes/revestimientos)
Region propensa a huracanes?	No	

FIGURA:



Parámetros resultantes y presiones netas de diseño

Para la dirección transversal:

(viento perpendicular a la cumbrera)

Angulo de inclinación de la cubierta, $\theta = 0.00^\circ$
 Altura media del edificio, $h = 10.50$ m ($h = h_e$ para $\theta < 10^\circ$)
 Factor de ajuste, $\lambda = 1.450$ (Ajustes por altura y exposición)
 Factor de importancia, $I = 1.15$ (Tabla A.2.5-1)
 $a = 1.585$ m (use: "2*a" para SPRFV, "a" para Componentes y Revestimientos)

Presiones de viento neta Transversales para SPRFV, p_s (KN/m ²)				
Ubicación	Dirección	Zona	Cas. Carg. 1	Cas. Carg. 2
A = Zona final del muro	Horizontal	A	0.32	0.00
B = Zona final de la cubierta	Horizontal	B	-0.17	0.00
C = Zona interior del muro	Horizontal	C	0.20	0.00
D = Zona interior de la cubierta	Horizontal	D	-0.10	0.00
E = Zona final de cubierta a barlovento	Vertical	E	-0.38	0.00
F = Zona final de cubierta a sotavento	Vertical	F	-0.22	0.00
G = Zona interior de cubierta a barlovento	Vertical	G	-0.27	0.00
H = Zona interior de cubierta a sotavento	Vertical	H	-0.17	0.00

$p_s = \lambda * K_{zt} * I * p_{s10}$
 (p_{s10} de la Fig. 6.4-2)

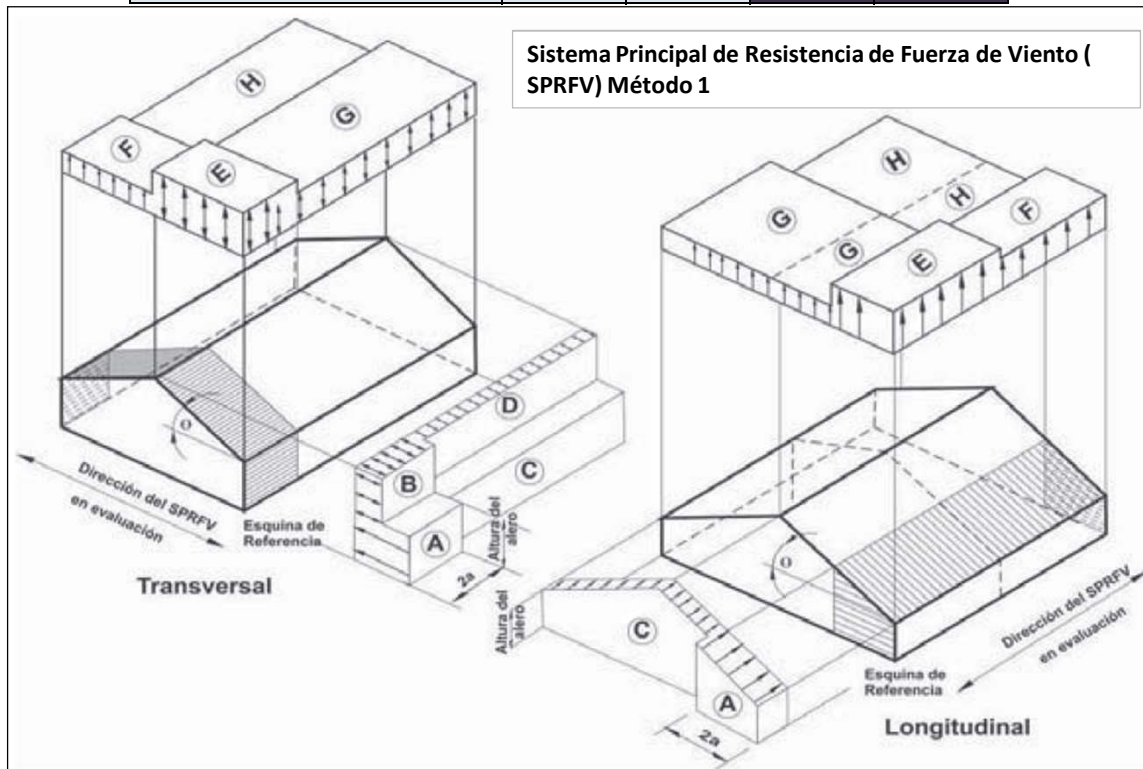
Para la dirección longitudinal:

(viento paralelo a la cubierta)

Angulo de inclinación de la cubierta, $\theta = 0.00^\circ$ (asumido)
 Altura media del edificio, $h = 10.50$ m ($h = (h_r + h_e)/2$)
 Factor de ajuste, $\lambda = 1.450$ (Ajustes por altura y exposición)
 $a = 1.59$ m (use: "2*a" para SPRFV, "a" para Componentes y Revestimientos)

Presiones de viento neta Longitudinales para SPRFV, p_s (KN/m ²)				
Ubicación	Dirección	Zona	Cas. Carg. 1	Cas. Carg. 2
A = Zona final del muro	Horizontal	A	0.32	0.00
B = Zona final de la cubierta	Horizontal	B	0.00	0.00
C = Zona interior del muro	Horizontal	C	0.20	0.00
D = Zona interior de la cubierta	Horizontal	D	0.00	0.00
E = Zona final de cubierta a barlovento	Vertical	E	-0.38	0.00
F = Zona final de cubierta a sotavento	Vertical	F	-0.22	0.00
G = Zona interior de cubierta a barlovento	Vertical	G	-0.27	0.00
H = Zona interior de cubierta a sotavento	Vertical	H	-0.17	0.00

$p_s = \lambda * K_{zt} * I * p_{s10}$
 (p_{s10} de la Fig. 6.4-2)



Parámetros resultantes y presiones netas de diseño

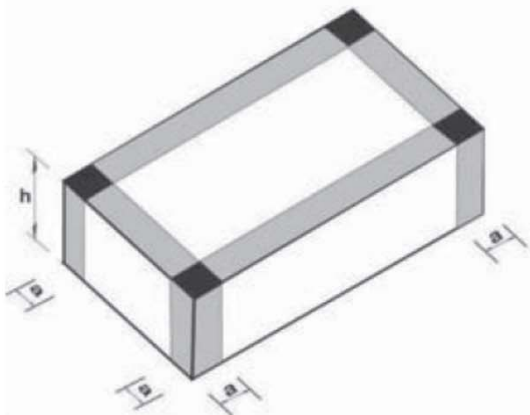
Para componentes y revestimientos: Las presiones calculadas se aplican en la dirección normal a la superficie

Angulo de inclinación de la cubierta, $\theta = 0.00^\circ$
Altura media del edificio, $h = 10.50$ m ($h = (h_r + h_e)/2$)
Factor de ajuste, $\lambda = 1.450$ (Ajustes por altura y exposición)
 $a = 1.59$ m (use: "2*a" para SPRFV, "a" para Componentes y Revestimientos)

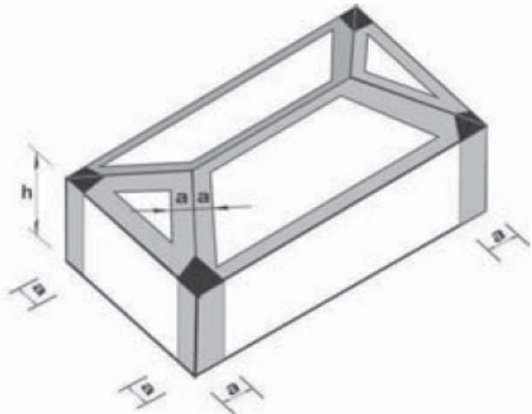
Componentes y Revestimientos Presiones netas de viento de diseño , (KN/m2)				
Item	Localización	Zona	Pos. (+)	Neg. (-)
Fachada - Correas	Zonas interiores Fachadas	4	0.31	-0.34
	Zonas finales Fachadas	5	0.31	-0.39
Cubierta - Correas	Zonas interiores Cubiertas	1	0.12	-0.32
	Zonas finales Cubiertas	2	0.12	-0.38
	Zonas esquineras Cubiertas	3	0.12	-0.38
Alero	Zonas finales Aleros	2	---	0.00
	Zonas esquineras Aleros	3	---	0.00

$p_{net} = \lambda \cdot K_{zt} \cdot I \cdot p_{net10}$
(p_{net10} de Fig. B.6.4-3)

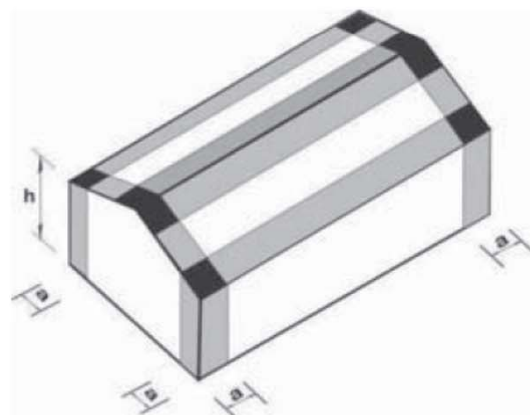
Componentes y Revestimientos – Método 1



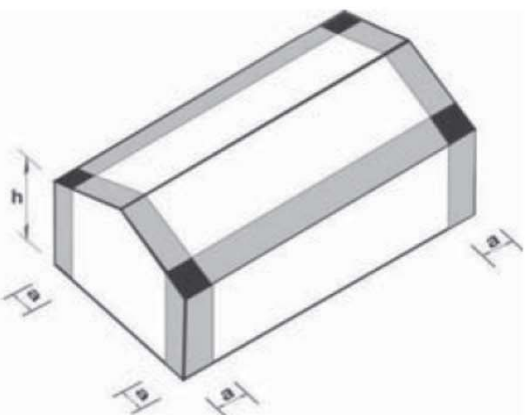
Cubierta Plana



Cubierta a Cuatro Aguas ($7^\circ < \theta \leq 27^\circ$)



Cubierta a Dos Aguas ($\theta \leq 7^\circ$)



Cubierta a Dos Aguas ($7^\circ < \theta \leq 45^\circ$)



Zonas Interiores
Cubiertas – Zona 1
Muros – Zona 4



Zonas Finales
Cubiertas – Zona 2
Muros – Zona 5



Zonas Esquineras
Cubiertas – Zona 3

CONDICIONES DEL PROCEDIMIENTO SIMPLIFICADO (NSR-10):

B.6.4.1.1 — Sistema Principal de Resistencia de Fuerzas de Viento (SPRFV) — Para el diseño del SPRFV el edificio debe cumplir todas las siguientes condiciones:

- (a) El edificio sea de diafragma simple como se define en la sección B.6.2.
- (b) El edificio sea bajo de acuerdo con la sección B.6.2.
- (c) El edificio sea cerrado como se define en la sección B.6.2 y cumpla las provisiones de zonas propensas a huracanes de acuerdo con la sección B.6.5.9.3.
- (d) El edificio sea de forma regular como se define en la sección B.6.2.
- (e) El edificio no sea clasificado como flexible como se define en la sección B.6.2.
- (f) Las características de respuesta del edificio sean tales que el mismo no esté sujeto a cargas por viento a través de él, a generación de vórtices, a inestabilidad por golpeteo o aleteo, y no esté ubicado en un sitio en el que se puedan presentar efectos de canalización o sacudimiento por la estela de obstrucciones en barlovento, que obliguen a consideraciones especiales.
- (g) El edificio tenga una sección transversal aproximadamente simétrica en cada dirección y tenga una cubierta plana o cubierta a dos o cuatro aguas con ángulo de inclinación $\theta \leq 45^\circ$
- (h) El edificio esta eximido de los casos de carga torsional indicados en la Nota 5 de la fig. B.6.5-7, o estos casos no controlan el diseño de ninguno de los elementos del SPRFV del edificio.

B.6.4.1.2 — Componentes y Revestimientos — Para el diseño de los componentes y elementos de revestimiento, el edificio debe cumplir todas las siguientes condiciones:

- (a) La altura promedio h es igual o menor a 18.0 m.
- (b) El edificio es cerrado como se define en la sección B.6.2 y cumple las provisiones de zonas propensas a huracanes de acuerdo con la sección B.6.5.9.3.
- (c) El edificio es de forma regular como se define en la sección B.6.2.
- (d) El edificio tiene una cubierta plana, una cubierta a dos aguas con $\theta \leq 45^\circ$ o una cubierta a cuatro aguas con $\theta \leq 27^\circ$.

B.6.4.2.1.1 - Presiones Mínimas (SPRFV) - Los efectos de carga de las presiones de viento de diseño de la sección B.6.4.2.1 no serán menores que el caso de carga mínima de la sección B.6.1.3.1, suponiendo presiones p_s , de +0.40 kN/m² para las zonas A, B, C y D y de 0 kN/m² para las zonas E, F, G y H.

B.6.4.2.2.1 — Presiones Mínimas (C&R) - Las presiones de viento de diseño positivas y negativas, P_{net} de la sección B.6.4.2.2 no serán menores a +0.4 kN/m² y -0.4 kN/m², respectivamente.

Referencias:

Capítulo B.6 - NSR 10

ASCE 7-05 Standard, "Minimum Design Loads for Buildings and Other Structures"

Guide to the Use of the Wind Load Provisions of ASCE 7-02



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 2.6. AJUSTE DE CORTANTE SISMICA EN LA BASE

AJUSTE DE CORTANTE SISMICA EN LA BASE

1. Calculo del periodo aproximado según A.4.2.2

$$T_a = C_t h^\alpha$$

Tabla A.4.2-1

Valor de los parámetros C_t y α para el cálculo del periodo aproximado T_a

Sistema estructural de resistencia sísmica	C_t	α
Pórticos resistentes a momentos de concreto reforzado que resisten la totalidad de las fuerzas sísmicas y que no están limitados o adheridos a componentes más rígidos, estructurales o no estructurales, que limiten los desplazamientos horizontales al verse sometidos a las fuerzas sísmicas.	0.047	0.9
Pórticos resistentes a momentos de acero estructural que resisten la totalidad de las fuerzas sísmicas y que no están limitados o adheridos a componentes más rígidos, estructurales o no estructurales, que limiten los desplazamientos horizontales al verse sometidos a las fuerzas sísmicas.	0.072	0.8
Pórticos arriostrados de acero estructural con diagonales excéntricas restringidas a pandeo.	0.073	0.75
Todos los otros sistemas estructurales basados en muros de rigidez similar o mayor a la de muros de concreto o mampostería	0.049	0.75
Alternativamente, para estructuras que tengan muros estructurales de concreto reforzado o mampostería estructural, pueden emplearse los siguientes parámetros C_t y α , donde C_w se calcula utilizando la ecuación A.4.2-4.	$\frac{0.0062}{\sqrt{C_w}}$	1.00

Ct:	0.047
h:	10.05
α:	0.9

Coficiente para el calcular el periodo de la estructura
altura en metros, medida desde la base, del piso mas alto del edificio
Exponente del periodo aproximado

Ta: 0.375 Seg

2. Valor de la aceleración espectral (ver anexo Espectro de Diseño)

Sa: 0.478 g

3. Valor del exponente k

Valores de entrada - Etabs	Sa:	0.48
	k:	1.00

k: 1.00 Seg

4. Valor del periodo máximo de la estructura (Análisis Dinámico)

$T < C_u T_a$ T: periodo de la estructura del análisis dinámico

$$C_u = 1.75 - 1.2 A_v F_v > 1.2$$

Av:	0.2
Fv:	1.95

Cu: 1.28

CuTa: 0.48



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Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

T1: 0.4415 Seg Período Fundamental del análisis dinámico (Etabs)
T2: 0.3013 Seg Período Fundamental del análisis dinámico (Etabs)
Sa: 0.478 g

5. Cortantes Sísmicas en la Base

Vu: 1238.082 Ton Cortante Basal según FHE (Etabs)
0.8Vu: 990.4656 Ton Edificio Regular
0.9Vu: 1114.2738 Ton Edificio Irregular

6. Ajuste de resultados (gravedad)

Vux: 955.374 Ton
Vuy: 1113.4707 Ton

Edificio Regular

gx: 10.16
gy: 9.80

Edificio Irregular

gx: 11.43
gy: 9.81

TABLE: Base Reactions									
Load Case/Combo	FX	FY	FZ	MX	MY	MZ	X	Y	Z
	tonf	tonf	tonf	tonf-m	tonf-m	tonf-m	m	m	m
FHE	-1310.61	0	0	0	-14597.42	11049.74	0	0	-3.21
FHEU	-699.34	0	0	0	-7789.14	5896.11	0	0	-3.21
SISMOX Max	1114.28	446.95	0	4250.27	11548.23	13326.16	0	0	-3.21
SISMOY Max	383.60	1114.61	0	11697.01	3863.34	35414.19	0	0	-3.21
UMBRALX Max	629.56	271.09	0	2588.28	6557.38	7684.14	0	0	-3.21
UMBRALY Max	232.39	629.43	0	6656.01	2339.77	20498.11	0	0	-3.21

FUENTE: Modelacion en Etabs



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
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Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 2.7. RESUMEN DE CARGAS SISMICAS



Propietario: SEC. EDUCACION Y SEC. CULTURA
Proyecto: COLEGIO Y TEATRO EL ENSUEÑO
Localización: BOGOTA - CUNDINAMARCA
Contenido: MODULO XV - M. DE CALCULOS

Calculó: ING. FABIO RIVERA
Revisó: ING. JUAN C. PATINO
Hoja:
Fecha: ABRIL - 2016

FUENTE DE MASA

Tipo de carga	% de participacion
Muerta	100%
Viva	10%


MASA POR PISO

Nivel	Masa (Ton/g)
N+10.05	80.37
N+5.90	117.16
N+2.80	54.10
N+0.00	94.46

FUERZAS SISMICAS POR PISO (Ton, m)

NIVEL	CARGA	P	VX	VY	T	MX	MY
N+10.50	FHE	0	-638.720	0.000	5371.900	0.000	-2797.594
N+10.50	FHEU	0	-340.819	0.000	2866.429	0.000	-1492.787
N+10.50	SISMOX	0	514.456	199.751	7254.595	874.911	2253.319
N+10.50	SISMOY	0	195.536	509.678	17824.444	2232.387	856.447
N+10.50	UMBRALX	0	290.809	121.306	4263.693	531.320	1273.742
N+10.50	UMBRALY	0	117.540	289.772	10320.158	1269.201	514.824
N+6.12	FHE	0	-1170.696	0.000	9866.278	0.000	-6379.922
N+6.12	FHEU	0	-624.679	0.000	5264.615	0.000	-3404.306
N+6.12	SISMOX	0	924.439	329.923	11213.805	1794.202	4981.368
N+6.12	SISMOY	0	310.146	928.023	31723.150	5034.578	1710.690
N+6.12	UMBRALX	0	525.435	201.709	6517.964	1096.938	2829.587
N+6.12	UMBRALY	0	187.658	529.149	18465.402	2870.813	1035.278
N+3.06	FHE	0	-1310.606	0.000	11049.743	0.000	-10455.906
N+3.06	FHEU	0	-699.335	0.000	5896.108	0.000	-5579.238
N+3.06	SISMOX	0	1040.709	399.232	11768.330	2942.997	8149.000
N+3.06	SISMOY	0	356.879	1048.169	34007.737	8247.125	2733.188
N+3.06	UMBRALX	0	589.557	241.687	6770.828	1795.504	4630.950
N+3.06	UMBRALY	0	215.928	595.115	19752.953	4698.818	1655.131
N-0.05	FHE	0	-1310.606	0.000	11049.743	0.000	-14597.420
N-0.05	FHEU	0	-699.335	0.000	5896.108	0.000	-7789.137
N-0.05	SISMOX	0	1114.278	446.952	13326.157	4250.266	11548.231
N-0.05	SISMOY	0	383.604	1114.607	35414.186	11697.011	3863.338
N-0.05	UMBRALX	0	629.557	271.089	7684.138	2588.284	6557.383
N-0.05	UMBRALY	0	232.393	629.426	20498.107	6656.010	2339.767

NOTA: El analisis se hace por el metodo dinamico con el ajuste de cortante en la base.

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 1
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 3. ANALISIS ESTRUCTURAL

1 Structure Data

Story Data

Name	Height m	Elevation m	Master Story	Similar To	Splice Story
N+10.50	4.38	10.5	Yes	None	No
N+6.12	3.06	6.12	No	N+10.50	No
N+3.06	3.11	3.06	No	N+10.50	No
N-0.05	3.16	-0.05	No	N+10.50	No
BASE	0	-3.21	No	None	No

Grid Systems

Name	Type	Story Range	X Origin m	Y Origin m	Rotation deg	Bubble Size m	Color
G1	Cartesian	Default	0	0	0	1.5	ffa0a0a0

Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate m
G1	X		Yes	End	-0.9
G1	X	1M	Yes	End	0
G1	X	2M	Yes	End	8.4
G1	X	3M	Yes	End	14.15
G1	X	4M	Yes	End	22.55
G1	X	5M	Yes	End	27.05
G1	X	6M	Yes	End	36.98
G1	X	7M	Yes	End	47.25
G1	Y	M11'	Yes	Start	0
G1	Y	M11	Yes	Start	1.05
G1	Y	M10	Yes	Start	8.45
G1	Y	M9	Yes	Start	15.85
G1	Y	M8	Yes	Start	18.1

Joint Coordinates Data

Label	X m	Y m	ΔZ Below m
1	-0.9	0	0
2	-0.3	0	0
3	1.15	0	0
4	2.8	0	0
5	5.6	0	0
6	8.4	0	0
7	11.275	0	0
8	14.15	0	0
9	16.95	0	0
10	19.75	0	0
11	22.55	0	0
12	27.05	0	0
13	28.95	0	0
14	30.36	0	0
15	33.67	0	0
16	33.78333	0	0
17	34.5	0	0
18	36.98	0	0

Label	X m	Y m	ΔZ Below m
19	39.8	0	0
20	40.40333	0	0
21	40.51667	0	0
22	43.82667	0	0
23	45.35	0	0
24	47.25	0	0
25	-0.9	1.05	0
26	-0.3	1.05	0
27	1.15	1.05	0
28	8.4	1.05	0
29	14.15	1.05	0
30	22.55	1.05	0
31	24.05	1.05	0
32	25.55	1.05	0
33	27.05	1.05	0
34	28.45	1.05	0
35	28.95	1.05	0
36	33.78333	1.05	0
38	36.98	1.05	0
40	40.51667	1.05	0
41	45.35	1.05	0
42	45.85	1.05	0
43	47.25	1.05	0
44	22.55	2.21667	0
45	27.05	2.45	0
46	47.25	2.45	0
47	1.15	2.55	0
48	8.4	2.55	0
49	14.15	2.55	0
50	22.55	2.55	0
51	27.05	3.15	0
52	22.55	3.38333	0
53	27.05	3.85	0
54	1.15	4.05	0
55	8.4	4.05	0
56	14.15	4.05	0
57	22.55	4.05	0
58	27.05	4.35	0
59	28.95	4.35	0
62	45.35	4.35	0
63	47.25	4.35	0
64	22.55	4.55	0
65	23.38333	4.55	0
66	24.21667	4.55	0
67	25.05	4.55	0
68	27.05	4.55	0
69	1.15	5.55	0
70	8.4	5.55	0
71	14.15	5.55	0
72	22.55	5.55	0
79	1.15	7.05	0
80	8.4	7.05	0
81	14.15	7.05	0
82	22.55	7.05	0

Label	X m	Y m	ΔZ Below m
91	-0.9	8.45	0
91-1	-0.9	8.45	1
92	-0.3	8.45	0
93	1.15	8.45	0
93-1	1.15	8.45	1
94	8.4	8.45	0
95	14.15	8.45	0
96	22.55	8.45	0
97	27.05	8.45	0
98	33.78333	8.45	0
99	36.98	8.45	0
100	40.51667	8.45	0
101	47.25	8.45	0
104	1.15	9.95	0
105	8.4	9.95	0
112	1.15	11.45	0
113	8.4	11.45	0
114	22.55	11.8	0
115	27.05	11.8	0
122	1.15	12.95	0
123	8.4	12.95	0
124	14.15	13.3	0
125	15.25	13.3	0
126	18.85	13.3	0
127	22.55	13.3	0
128	27.05	13.85	0
129	28.95	13.85	0
132	45.35	13.85	0
133	47.25	13.85	0
134	1.15	14.45	0
135	8.4	14.45	0
136	27.05	14.45	0
137	47.25	14.45	0
138	-0.9	15.85	0
138-1	-0.9	15.85	1
139	-0.3	15.85	0
140	1.15	15.85	0
140-1	1.15	15.85	1
141	8.4	15.85	0
142	14.15	15.85	0
143	15.25	15.85	0
144	18.85	15.85	0
145	22.55	15.85	0
146	27.05	15.85	0
147	28.45	15.85	0
148	28.73333	15.85	0
149	28.95	15.85	0
150	30.41667	15.85	0
151	32.1	15.85	0
152	33.78333	15.85	0
153	34.5	15.85	0
154	35.46667	15.85	0
155	36.98	15.85	0
156	37.15	15.85	0

Label	X m	Y m	ΔZ Below m
157	38.83333	15.85	0
158	39.8	15.85	0
159	40.51667	15.85	0
160	42.2	15.85	0
161	43.88334	15.85	0
162	45.35	15.85	0
163	45.56667	15.85	0
164	45.85	15.85	0
165	47.25	15.85	0
166	22.55	18.1	0
167	27.05	18.1	0
168	28.73333	18.1	0
169	28.95	18.1	0
170	30.41667	18.1	0
171	32.1	18.1	0
172	33.78333	18.1	0
173	34.5	18.1	0
174	35.46667	18.1	0
175	36.98	18.1	0
176	37.15	18.1	0
177	38.83333	18.1	0
178	39.8	18.1	0
179	40.51667	18.1	0
180	42.2	18.1	0
181	43.88334	18.1	0
182	45.35	18.1	0
183	45.56667	18.1	0
184	47.25	18.1	0
185	28.95	8.45	0
188	45.35	8.45	0
191	27.05	6.4	0
192	28.95	6.4	0
195	45.35	6.4	0
196	47.25	6.4	0
201	27.05	10.25	0
202	28.95	10.25	0
205	45.35	10.25	0
206	47.25	10.25	0
207	27.05	12.05	0
208	28.95	12.05	0
211	45.35	12.05	0
212	47.25	12.05	0
216	8.4	11.65	0
217	14.15	11.65	0

Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault	Load Pattern	Multiplier
MsSrc1	No	No	Yes	Yes	No	Yes	Yes	DEAD	1
MsSrc1	No	No	Yes	Yes	No	Yes	Yes	LIVE	0.1

Centers of Mass and Rigidity

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulative X tonf-s ² /m	Cumulative Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
N-0.05	1ER	94.45678	94.45678	25.7735	7.9676	94.45678	94.45678	25.7735	7.9676		
N+3.06	2DO	54.10028	54.10028	13.5919	8.2845	54.10028	54.10028	13.5919	8.2845		
N+6.12	3ER	117.15985	117.15985	25.7071	8.5283	117.15985	117.15985	25.7071	8.5283		
N+10.50	CUB	80.36642	80.36642	26.6743	8.4508	80.36642	80.36642	26.6743	8.4508		

Mass Summary by Diaphragm

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	Mass Moment of Inertia tonf-m-s ²	X Mass Center m	Y Mass Center m
N+10.50	CUB	80.36642	80.36642	19313.1436	26.6743	8.4508
N+6.12	3ER	117.15985	117.15985	27312.6936	25.7071	8.5283
N+3.06	2DO	54.10028	54.10028	5640.468	13.5919	8.2845
N-0.05	1ER	94.45678	94.45678	20075.7946	25.7735	7.9676

Mass Summary by Story

Story	UX tonf-s ² /m	UY tonf-s ² /m	UZ tonf-s ² /m
N+10.50	83.39225	83.39225	0
N+6.12	118.76105	118.76105	0
N+3.06	61.96643	61.96643	0
N-0.05	106.72162	106.72162	0
BASE	14.21237	14.21237	0

2 Properties

Material Properties - Summary

Name	Type	E tonf/m ²	v	Unit Weight tonf/m ³	Design Strengths
A615Gr60	Rebar	20389020	0	7.849	Fy=42184.18 tonf/m ² , Fu=63276.27 tonf/m ²
COL	Concrete	2526710	0.2	2.403	Fc=2800 tonf/m ²
CONC	Concrete	2180000	0.2	2.403	Fc=2100 tonf/m ²
PANT	Concrete	2826710	0.2	2.403	Fc=3500 tonf/m ²
RMAT	Rebar	20389020	0	7.849	Fy=42000 tonf/m ² , Fu=63000 tonf/m ²
STEEL	Steel	20389020	0.3	7.8334	Fy=35153.48 tonf/m ² , Fu=45699.53 tonf/m ²

Frame Sections - Summary

Name	Material	Shape
C220X80X3 .0	STEEL	Steel Channel
C60X60	COL	Concrete Rectangular
IPE120	STEEL	Steel I/Wide Flange
IPE360	STEEL	Steel I/Wide Flange
TUB150X15 0X6.0MM	STEEL	Steel Tube
TUB273.1X 9.30MM	STEEL	Steel Pipe
V15X60	CONC	Concrete Rectangular
V20X60	CONC	Concrete Rectangular
V30X60	CONC	Concrete Rectangular
V30X70	CONC	Concrete Rectangular
V35X60	CONC	Concrete Rectangular
V40X100	CONC	Concrete Rectangular
V40X140	CONC	Concrete Rectangular
V40X60	CONC	Concrete Rectangular
V50X60	CONC	Concrete Rectangular
V50X70	CONC	Concrete Rectangular
V60X140	CONC	Concrete Rectangular
V60X60	CONC	Concrete Rectangular

Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness m	Deck Material	Deck Depth m
LOSA60	Deck	Membrane	CONC	0.6	STEEL	0.52
MUROCON T	Wall	Shell-Thin	CONC	0.25		
PANT25	Wall	Shell-Thin	PANT	0.25		
PANT60	Wall	Shell-Thin	PANT	0.6		
STEELDEC K	Deck	Membrane	CONC	0.1	STEEL	0.05
TEJA	Deck	Membrane	STEEL	0.0762	STEEL	0.0762

3 Assignments

Joint Assignments - Summary

Story	Label	Unique Name	Diaphragm	Restraints
N+10.50	1	339	From Area	
N+10.50	3	127	CUB	
N+10.50	6	128	CUB	
N+10.50	8	129	CUB	
N+10.50	11	130	CUB	
N+10.50	12	132	CUB	
N+10.50	13	210	CUB	
N+10.50	17	215	CUB	
N+10.50	19	216	CUB	
N+10.50	23	212	CUB	
N+10.50	24	202	CUB	
N+10.50	25	338	From Area	
N+10.50	27	107	CUB	
N+10.50	28	110	CUB	
N+10.50	29	113	CUB	
N+10.50	30	114	CUB	
N+10.50	31	371	From Area	
N+10.50	32	372	From Area	
N+10.50	33	122	CUB	
N+10.50	34	123	CUB	
N+10.50	35	209	CUB	
N+10.50	41	211	CUB	
N+10.50	42	181	CUB	
N+10.50	43	182	CUB	
N+10.50	45	121	CUB	
N+10.50	46	186	CUB	
N+10.50	47	258	CUB	
N+10.50	48	257	CUB	
N+10.50	49	235	CUB	
N+10.50	50	250	CUB	
N+10.50	51	376	From Area	
N+10.50	53	375	From Area	
N+10.50	54	256	CUB	
N+10.50	55	255	CUB	
N+10.50	56	236	CUB	
N+10.50	57	249	CUB	
N+10.50	58	204	CUB	
N+10.50	59	259	CUB	
N+10.50	62	260	CUB	
N+10.50	63	205	CUB	
N+10.50	64	234	CUB	
N+10.50	65	373	From Area	
N+10.50	66	374	From Area	
N+10.50	67	232	CUB	
N+10.50	68	233	CUB	
N+10.50	69	254	CUB	
N+10.50	70	253	CUB	
N+10.50	71	237	CUB	
N+10.50	72	248	CUB	
N+10.50	79	252	CUB	
N+10.50	80	251	CUB	

Story	Label	Unique Name	Diaphragm	Restraints
N+10.50	81	238	CUB	
N+10.50	82	247	CUB	
N+10.50	91	136	CUB	
N+10.50	93	106	CUB	
N+10.50	94	109	CUB	
N+10.50	95	112	CUB	
N+10.50	96	115	CUB	
N+10.50	97	117	CUB	
N+10.50	101	228	CUB	
N+10.50	104	239	CUB	
N+10.50	105	246	CUB	
N+10.50	112	240	CUB	
N+10.50	113	245	CUB	
N+10.50	122	241	CUB	
N+10.50	123	244	CUB	
N+10.50	128	203	CUB	
N+10.50	129	261	CUB	
N+10.50	132	262	CUB	
N+10.50	133	206	CUB	
N+10.50	134	242	CUB	
N+10.50	135	243	CUB	
N+10.50	136	120	CUB	
N+10.50	137	126	CUB	
N+10.50	138	135	CUB	
N+10.50	140	105	CUB	
N+10.50	141	108	CUB	
N+10.50	142	111	CUB	
N+10.50	145	116	CUB	
N+10.50	146	119	CUB	
N+10.50	147	118	CUB	
N+10.50	149	207	CUB	
N+10.50	153	213	CUB	
N+10.50	158	214	CUB	
N+10.50	162	208	CUB	
N+10.50	164	124	CUB	
N+10.50	165	125	CUB	
N+10.50	166	131	CUB	
N+10.50	167	133	CUB	
N+10.50	169	263	CUB	
N+10.50	173	264	CUB	
N+10.50	178	265	CUB	
N+10.50	182	266	CUB	
N+10.50	184	134	CUB	
N+10.50	185	226	CUB	
N+10.50	188	227	CUB	
N+10.50	191	217	CUB	
N+10.50	192	229	CUB	
N+10.50	195	230	CUB	
N+10.50	196	231	CUB	
N+10.50	201	218	CUB	
N+10.50	202	223	CUB	
N+10.50	205	224	CUB	
N+10.50	206	225	CUB	
N+10.50	207	219	CUB	

Story	Label	Unique Name	Diaphragm	Restrains
N+10.50	208	220	CUB	
N+10.50	211	221	CUB	
N+10.50	212	222	CUB	
N+10.50	216	340	From Area	
N+10.50	217	341	From Area	
N+6.12	3	89	3ER	
N+6.12	6	90	3ER	
N+6.12	8	91	3ER	
N+6.12	11	92	3ER	
N+6.12	12	94	3ER	
N+6.12	16	273	3ER	
N+6.12	21	277	3ER	
N+6.12	24	198	3ER	
N+6.12	27	69	3ER	
N+6.12	28	72	3ER	
N+6.12	29	75	3ER	
N+6.12	30	76	3ER	
N+6.12	31	363	From Area	
N+6.12	32	364	From Area	
N+6.12	33	84	3ER	
N+6.12	34	85	3ER	
N+6.12	36	272	3ER	
N+6.12	40	276	3ER	
N+6.12	42	180	3ER	
N+6.12	43	179	3ER	
N+6.12	44	366	From Area	
N+6.12	45	83	3ER	
N+6.12	46	185	3ER	
N+6.12	51	370	From Area	
N+6.12	52	365	From Area	
N+6.12	53	369	From Area	
N+6.12	64	199	3ER	
N+6.12	65	367	From Area	
N+6.12	66	368	From Area	
N+6.12	67	200	3ER	
N+6.12	68	201	3ER	
N+6.12	91	104	3ER	
N+6.12	93	68	3ER	
N+6.12	94	71	3ER	
N+6.12	95	74	3ER	
N+6.12	96	77	3ER	
N+6.12	97	79	3ER	
N+6.12	98	268	3ER	
N+6.12	100	269	3ER	
N+6.12	101	267	3ER	
N+6.12	115	280	3ER	
N+6.12	124	97	3ER	
N+6.12	125	99	3ER	
N+6.12	126	100	3ER	
N+6.12	127	98	3ER	
N+6.12	136	82	3ER	
N+6.12	137	88	3ER	
N+6.12	138	103	3ER	
N+6.12	140	67	3ER	

Story	Label	Unique Name	Diaphragm	Restraints
N+6.12	141	70	3ER	
N+6.12	142	73	3ER	
N+6.12	143	101	3ER	
N+6.12	144	102	3ER	
N+6.12	145	78	3ER	
N+6.12	146	81	3ER	
N+6.12	147	80	3ER	
N+6.12	152	270	3ER	
N+6.12	159	274	3ER	
N+6.12	164	86	3ER	
N+6.12	165	87	3ER	
N+6.12	166	93	3ER	
N+6.12	167	95	3ER	
N+6.12	172	271	3ER	
N+6.12	179	275	3ER	
N+6.12	184	96	3ER	
N+3.06	2	336	From Area	
N+3.06	3	54	2DO	
N+3.06	6	55	2DO	
N+3.06	8	56	2DO	
N+3.06	11	57	2DO	
N+3.06	26	337	From Area	
N+3.06	27	44	2DO	
N+3.06	28	47	2DO	
N+3.06	29	50	2DO	
N+3.06	30	51	2DO	
N+3.06	31	355	From Area	
N+3.06	32	356	From Area	
N+3.06	33	174	2DO	
N+3.06	34	342	From Area	
N+3.06	42	345	From Area	
N+3.06	43	344	From Area	
N+3.06	44	358	From Area	
N+3.06	45	173	2DO	
N+3.06	46	346	From Area	
N+3.06	51	362	From Area	
N+3.06	52	357	From Area	
N+3.06	53	361	From Area	
N+3.06	64	195	2DO	
N+3.06	65	359	From Area	
N+3.06	66	360	From Area	
N+3.06	67	196	2DO	
N+3.06	68	197	2DO	
N+3.06	92	64	2DO	
N+3.06	93	43	2DO	
N+3.06	94	46	2DO	
N+3.06	95	49	2DO	
N+3.06	96	52	2DO	
N+3.06	114	279	2DO	
N+3.06	115	278	2DO	
N+3.06	124	58	2DO	
N+3.06	125	60	2DO	
N+3.06	126	61	2DO	
N+3.06	127	59	2DO	

Story	Label	Unique Name	Diaphragm	Restraints
N+3.06	136	172	2DO	
N+3.06	137	343	From Area	
N+3.06	139	65	2DO	
N+3.06	140	42	2DO	
N+3.06	141	45	2DO	
N+3.06	142	48	2DO	
N+3.06	143	62	2DO	
N+3.06	144	63	2DO	
N+3.06	145	53	2DO	
N+3.06	146	170	2DO	
N+3.06	147	305	From Area	
N+3.06	148	308	From Area	
N+3.06	150	310	From Area	
N+3.06	151	312	From Area	
N+3.06	152	314	From Area	
N+3.06	154	316	From Area	
N+3.06	156	318	From Area	
N+3.06	157	320	From Area	
N+3.06	159	322	From Area	
N+3.06	160	324	From Area	
N+3.06	161	326	From Area	
N+3.06	163	328	From Area	
N+3.06	164	306	From Area	
N+3.06	165	303	From Area	
N+3.06	166	66	2DO	
N+3.06	167	171	2DO	
N+3.06	168	307	From Area	
N+3.06	170	309	From Area	
N+3.06	171	311	From Area	
N+3.06	172	313	From Area	
N+3.06	174	315	From Area	
N+3.06	176	317	From Area	
N+3.06	177	319	From Area	
N+3.06	179	321	From Area	
N+3.06	180	323	From Area	
N+3.06	181	325	From Area	
N+3.06	183	327	From Area	
N+3.06	184	304	From Area	
N-0.05	1	335	From Area	
N-0.05	3	26	1ER	
N-0.05	4	383	From Area	
N-0.05	5	384	From Area	
N-0.05	6	27	1ER	
N-0.05	7	385	From Area	
N-0.05	8	28	1ER	
N-0.05	9	381	From Area	
N-0.05	10	382	From Area	
N-0.05	11	29	1ER	
N-0.05	12	31	1ER	
N-0.05	14	379	From Area	
N-0.05	15	380	From Area	
N-0.05	18	33	1ER	
N-0.05	20	377	From Area	
N-0.05	22	378	From Area	

Story	Label	Unique Name	Diaphragm	Restraints
N-0.05	24	187	1ER	
N-0.05	25	333	From Area	
N-0.05	27	2	1ER	
N-0.05	28	5	1ER	
N-0.05	29	8	1ER	
N-0.05	30	9	1ER	
N-0.05	31	347	From Area	
N-0.05	32	348	From Area	
N-0.05	33	21	1ER	
N-0.05	34	22	1ER	
N-0.05	38	13	1ER	
N-0.05	42	177	1ER	
N-0.05	43	178	1ER	
N-0.05	44	350	From Area	
N-0.05	45	20	1ER	
N-0.05	46	184	1ER	
N-0.05	51	354	From Area	
N-0.05	52	349	From Area	
N-0.05	53	353	From Area	
N-0.05	64	189	1ER	
N-0.05	65	351	From Area	
N-0.05	66	352	From Area	
N-0.05	67	190	1ER	
N-0.05	68	191	1ER	
N-0.05	91	334	From Area	
N-0.05	91-1	329	From Area	
N-0.05	93	1	From Area	
N-0.05	93-1	332	From Area	
N-0.05	94	4	1ER	
N-0.05	95	7	1ER	
N-0.05	96	10	1ER	
N-0.05	97	12	1ER	
N-0.05	99	14	1ER	
N-0.05	101	16	1ER	
N-0.05	124	36	1ER	
N-0.05	125	38	1ER	
N-0.05	126	39	1ER	
N-0.05	127	37	1ER	
N-0.05	136	19	1ER	
N-0.05	137	25	1ER	
N-0.05	138-1	330	From Area	
N-0.05	140	302	From Area	
N-0.05	140-1	331	From Area	
N-0.05	141	3	1ER	
N-0.05	142	6	1ER	
N-0.05	143	40	1ER	
N-0.05	144	41	1ER	
N-0.05	145	11	1ER	
N-0.05	146	18	1ER	
N-0.05	147	17	1ER	
N-0.05	155	15	1ER	
N-0.05	164	23	1ER	
N-0.05	165	24	1ER	
N-0.05	166	30	1ER	

Story	Label	Unique Name	Diaphragm	Restraints
N-0.05	167	32	1ER	
N-0.05	175	34	1ER	
N-0.05	184	35	1ER	
BASE	1	299	From Area	UX; UY; UZ
BASE	3	163	From Area	UX; UY; UZ; RX; RY; RZ
BASE	4	295	From Area	UX; UY; UZ
BASE	5	296	From Area	UX; UY; UZ
BASE	6	164	From Area	UX; UY; UZ; RX; RY; RZ
BASE	7	297	From Area	UX; UY; UZ
BASE	8	165	From Area	UX; UY; UZ; RX; RY; RZ
BASE	9	293	From Area	UX; UY; UZ
BASE	10	294	From Area	UX; UY; UZ
BASE	11	166	From Area	UX; UY; UZ; RX; RY; RZ
BASE	12	167	From Area	UX; UY; UZ; RX; RY; RZ
BASE	14	291	From Area	UX; UY; UZ
BASE	15	292	From Area	UX; UY; UZ
BASE	18	168	From Area	UX; UY; UZ; RX; RY; RZ
BASE	20	289	From Area	UX; UY; UZ
BASE	22	290	From Area	UX; UY; UZ
BASE	24	188	From Area	UX; UY; UZ
BASE	25	298	From Area	UX; UY; UZ
BASE	27	139	From Area	UX; UY; UZ; RX; RY; RZ
BASE	28	142	From Area	UX; UY; UZ; RX; RY; RZ
BASE	29	145	From Area	UX; UY; UZ; RX; RY; RZ
BASE	30	146	From Area	UX; UY; UZ; RX; RY; RZ
BASE	31	281	From Area	UX; UY; UZ
BASE	32	282	From Area	UX; UY; UZ
BASE	33	157	From Area	UX; UY; UZ; RX; RY; RZ
BASE	34	159	From Area	UX; UY; UZ; RX; RY; RZ
BASE	38	150	From Area	UX; UY; UZ; RX; RY; RZ
BASE	42	176	From Area	UX; UY; UZ; RX; RY; RZ
BASE	43	175	From Area	UX; UY; UZ; RX; RY; RZ
BASE	44	284	From Area	UX; UY; UZ
BASE	45	158	From Area	UX; UY; UZ; RX; RY; RZ
BASE	46	183	From Area	UX; UY; UZ; RX; RY; RZ
BASE	51	288	From Area	UX; UY; UZ
BASE	52	283	From Area	UX; UY; UZ
BASE	53	287	From Area	UX; UY; UZ
BASE	64	192	From Area	UX; UY; UZ; RX; RY; RZ
BASE	65	285	From Area	UX; UY; UZ
BASE	66	286	From Area	UX; UY; UZ
BASE	67	193	From Area	UX; UY; UZ; RX; RY; RZ
BASE	68	194	From Area	UX; UY; UZ; RX; RY; RZ
BASE	91	300	From Area	UX; UY; UZ
BASE	93	138	From Area	UX; UY; UZ; RX; RY; RZ
BASE	94	141	From Area	UX; UY; UZ; RX; RY; RZ
BASE	95	144	From Area	UX; UY; UZ; RX; RY; RZ
BASE	96	147	From Area	UX; UY; UZ; RX; RY; RZ
BASE	97	149	From Area	UX; UY; UZ; RX; RY; RZ
BASE	99	151	From Area	UX; UY; UZ; RX; RY; RZ
BASE	101	153	From Area	UX; UY; UZ; RX; RY; RZ
BASE	136	156	From Area	UX; UY; UZ; RX; RY; RZ
BASE	137	162	From Area	UX; UY; UZ; RX; RY; RZ
BASE	138	301	From Area	UX; UY; UZ

Story	Label	Unique Name	Diaphragm	Restraints
BASE	140	137	From Area	UX; UY; UZ; RX; RY; RZ
BASE	141	140	From Area	UX; UY; UZ; RX; RY; RZ
BASE	142	143	From Area	UX; UY; UZ; RX; RY; RZ
BASE	145	148	From Area	UX; UY; UZ; RX; RY; RZ
BASE	146	154	From Area	UX; UY; UZ; RX; RY; RZ
BASE	147	155	From Area	UX; UY; UZ; RX; RY; RZ
BASE	155	152	From Area	UX; UY; UZ; RX; RY; RZ
BASE	164	161	From Area	UX; UY; UZ; RX; RY; RZ
BASE	165	160	From Area	UX; UY; UZ; RX; RY; RZ
BASE	184	169	From Area	UX; UY; UZ; RX; RY; RZ

Frame Assignments - Summary

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N+10.50	C1	187	Column	4.38	C60X60	C60X60	3	No
N+10.50	C2	190	Column	4.38	C60X60	C60X60	3	No
N+10.50	C3	193	Column	4.38	C60X60	C60X60	3	No
N+10.50	C4	194	Column	4.38	C60X60	C60X60	3	No
N+10.50	C6	186	Column	4.38	C60X60	C60X60	3	No
N+10.50	C7	189	Column	4.38	C60X60	C60X60	3	No
N+10.50	C8	192	Column	4.38	C60X60	C60X60	3	No
N+10.50	C9	195	Column	4.38	C60X60	C60X60	3	No
N+10.50	C14	185	Column	4.38	C60X60	C60X60	3	No
N+10.50	C15	188	Column	4.38	C60X60	C60X60	3	No
N+10.50	C16	191	Column	4.38	C60X60	C60X60	3	No
N+10.50	C17	196	Column	4.38	C60X60	C60X60	3	No
N+6.12	C1	131	Column	3.06	C60X60	C60X60	3	No
N+6.12	C2	134	Column	3.06	C60X60	C60X60	3	No
N+6.12	C3	137	Column	3.06	C60X60	C60X60	3	No
N+6.12	C4	138	Column	3.06	C60X60	C60X60	3	No
N+6.12	C6	130	Column	3.06	C60X60	C60X60	3	No
N+6.12	C7	133	Column	3.06	C60X60	C60X60	3	No
N+6.12	C8	136	Column	3.06	C60X60	C60X60	3	No
N+6.12	C9	139	Column	3.06	C60X60	C60X60	3	No
N+6.12	C13	341	Column	3.06	TUB273.1X9.30MM	TUB273.1X9.30MM	3	Yes
N+6.12	C14	129	Column	3.06	C60X60	C60X60	3	No
N+6.12	C15	132	Column	3.06	C60X60	C60X60	3	No
N+6.12	C16	135	Column	3.06	C60X60	C60X60	3	No
N+6.12	C17	140	Column	3.06	C60X60	C60X60	3	No
N+6.12	C18	331	Column	3.06	TUB150X150X6.0MM	TUB150X150X6.0MM	3	Yes
N+6.12	C20	332	Column	3.06	TUB150X150X6.0MM	TUB150X150X6.0MM	3	Yes
N+6.12	C21	338	Column	3.06	TUB150X150X6.0MM	TUB150X150X6.0MM	3	Yes
N+6.12	C22	335	Column	3.06	TUB150X150X6.0MM	TUB150X150X6.0MM	3	Yes
N+6.12	C23	336	Column	3.06	TUB150X150X6.0MM	TUB150X150X6.0MM	3	Yes
N+6.12	C24	337	Column	3.06	TUB150X150X6.0MM	TUB150X150X6.0MM	3	Yes
N+3.06	C1	73	Column	3.11	C60X60	C60X60	3	No
N+3.06	C2	76	Column	3.11	C60X60	C60X60	3	No
N+3.06	C3	79	Column	3.11	C60X60	C60X60	3	No
N+3.06	C4	80	Column	3.11	C60X60	C60X60	3	No
N+3.06	C6	72	Column	3.11	C60X60	C60X60	3	No
N+3.06	C7	75	Column	3.11	C60X60	C60X60	3	No
N+3.06	C8	78	Column	3.11	C60X60	C60X60	3	No
N+3.06	C9	81	Column	3.11	C60X60	C60X60	3	No

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N+3.06	C14	71	Column	3.11	C60X60	C60X60	3	No
N+3.06	C15	74	Column	3.11	C60X60	C60X60	3	No
N+3.06	C16	77	Column	3.11	C60X60	C60X60	3	No
N+3.06	C17	82	Column	3.11	C60X60	C60X60	3	No
N-0.05	C1	1	Column	3.16	C60X60	C60X60	3	No
N-0.05	C2	4	Column	3.16	C60X60	C60X60	3	No
N-0.05	C3	7	Column	3.16	C60X60	C60X60	3	No
N-0.05	C4	8	Column	3.16	C60X60	C60X60	3	No
N-0.05	C5	12	Column	3.16	C60X60	C60X60	3	No
N-0.05	C6-1	244	Column	1	C60X60	C60X60	3	No
N-0.05	C6-2	243	Column	2.16	C60X60	C60X60	3	No
N-0.05	C7	3	Column	3.16	C60X60	C60X60	3	No
N-0.05	C8	6	Column	3.16	C60X60	C60X60	3	No
N-0.05	C9	9	Column	3.16	C60X60	C60X60	3	No
N-0.05	C10	11	Column	3.16	C60X60	C60X60	3	No
N-0.05	C11	13	Column	3.16	C60X60	C60X60	3	No
N-0.05	C12	15	Column	3.16	C60X60	C60X60	3	No
N-0.05	C14-1	242	Column	1	C60X60	C60X60	3	No
N-0.05	C14-2	241	Column	2.16	C60X60	C60X60	3	No
N-0.05	C15	2	Column	3.16	C60X60	C60X60	3	No
N-0.05	C16	5	Column	3.16	C60X60	C60X60	3	No
N-0.05	C17	10	Column	3.16	C60X60	C60X60	3	No
N-0.05	C19	14	Column	3.16	C60X60	C60X60	3	No
N+10.50	B1	354	Beam	2.05	V20X60	V20X60	3	No
N+10.50	B3	231	Beam	7.25	V20X60	V20X60	3	No
N+10.50	B4	232	Beam	5.75	V20X60	V20X60	3	No
N+10.50	B5	233	Beam	8.4	V20X60	V20X60	3	No
N+10.50	B6	234	Beam	4.5	V20X60	V20X60	3	No
N+10.50	B17	353	Beam	1.05	V15X60	V15X60	3	Yes
N+10.50	B19	213	Beam	1.05	V40X60	V40X60	3	No
N+10.50	B20	215	Beam	1.05	V40X60	V40X60	3	No
N+10.50	B21	218	Beam	1.05	V40X60	V40X60	3	No
N+10.50	B22	221	Beam	1.05	V40X60	V40X60	3	No
N+10.50	B23	226	Beam	1.05	V50X60	V50X60	3	No
N+10.50	B31	270	Beam	1.05	V40X140	V40X140	3	No
N+10.50	B32	351	Beam	2.05	V50X60	V50X60	3	No
N+10.50	B34	201	Beam	7.25	V50X60	V50X60	3	No
N+10.50	B35	202	Beam	5.75	V50X60	V50X60	3	No
N+10.50	B36	203	Beam	8.4	V50X60	V50X60	3	No
N+10.50	B37	204	Beam	4.5	V50X60	V50X60	3	No
N+10.50	B38	205	Beam	1.4	V60X140	V60X140	3	No
N+10.50	B40	266	Beam	17.4	V60X140	V60X140	3	No
N+10.50	B42	267	Beam	1.4	V60X140	V60X140	3	No
N+10.50	B43	224	Beam	1.4	V60X140	V60X140	3	No
N+10.50	B44	269	Beam	1.4	V40X140	V40X140	3	No
N+10.50	B45	296	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B46	292	Beam	8.4	C220X80X3.0	N/A	3	Yes
N+10.50	B48	295	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B49	291	Beam	8.4	C220X80X3.0	N/A	3	Yes
N+10.50	B50	297	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B54	302	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B55	284	Beam	2.5	V30X60	V30X60	3	No
N+10.50	B56	283	Beam	2	V30X60	V30X60	3	No

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N+10.50	B57	352	Beam	7.4	V15X60	V15X60	3	Yes
N+10.50	B59	214	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B60	216	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B61	219	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B62	222	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B66	294	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B67	290	Beam	8.4	C220X80X3.0	N/A	3	Yes
N+10.50	B73	293	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B74	289	Beam	8.4	C220X80X3.0	N/A	3	Yes
N+10.50	B80	237	Beam	2.05	V50X60	V50X60	3	No
N+10.50	B82	197	Beam	7.25	V50X60	V50X60	3	No
N+10.50	B83	198	Beam	5.75	V50X60	V50X60	3	No
N+10.50	B84	199	Beam	8.4	V50X60	V50X60	3	No
N+10.50	B85	200	Beam	4.5	V50X60	V50X60	3	No
N+10.50	B86	225	Beam	12	V60X140	V60X140	3	No
N+10.50	B87	303	Beam	14.8	V40X100	V40X100	3	No
N+10.50	B97	305	Beam	14.8	V40X100	V40X100	3	No
N+10.50	B98	268	Beam	12	V40X140	V40X140	3	No
N+10.50	B100	288	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B106	287	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B115	239	Beam	7.4	V15X60	V15X60	3	Yes
N+10.50	B118	238	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B119	217	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B120	220	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B121	223	Beam	7.4	V40X60	V40X60	3	No
N+10.50	B123	286	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B125	298	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B129	300	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B130	285	Beam	7.25	C220X80X3.0	N/A	3	Yes
N+10.50	B133	227	Beam	1.4	V60X140	V60X140	3	No
N+10.50	B134	229	Beam	1.4	V40X140	V40X140	3	No
N+10.50	B135	236	Beam	2.05	V50X60	V50X60	3	No
N+10.50	B137	206	Beam	7.25	V50X60	V50X60	3	No
N+10.50	B138	207	Beam	5.75	V50X60	V50X60	3	No
N+10.50	B139	208	Beam	8.4	V50X60	V50X60	3	No
N+10.50	B140	209	Beam	4.5	V50X60	V50X60	3	No
N+10.50	B141	210	Beam	1.4	V60X140	V60X140	3	No
N+10.50	B143	211	Beam	17.4	V60X140	V60X140	3	No
N+10.50	B145	212	Beam	1.4	V60X140	V60X140	3	No
N+10.50	B146	228	Beam	2.25	V60X140	V60X140	3	No
N+10.50	B148	304	Beam	2.25	V40X100	V40X100	3	No
N+10.50	B163	306	Beam	2.25	V40X100	V40X100	3	No
N+10.50	B165	230	Beam	2.25	V40X140	V40X140	3	No
N+10.50	B178	277	Beam	1.9	V50X70	V50X70	3	No
N+10.50	B182	279	Beam	1.9	V50X70	V50X70	3	No
N+10.50	B184	280	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B188	282	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B193	274	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B197	276	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B198	271	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B202	273	Beam	1.9	V30X70	V30X70	3	No
N+10.50	B208	272	Beam	16.4	V30X70	V30X70	3	No
N+10.50	B210	275	Beam	16.4	V30X70	V30X70	3	No

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N+10.50	B212	278	Beam	16.4	V50X70	V50X70	3	No
N+10.50	B214	281	Beam	16.4	V30X70	V30X70	3	No
N+10.50	B216	299	Beam	16.4	V30X70	V30X70	3	No
N+10.50	B218	301	Beam	16.4	V30X70	V30X70	3	No
N+10.50	B219	355	Beam	5.75	V30X60	V30X60	3	No
N+6.12	B3	175	Beam	7.25	V15X60	V15X60	3	No
N+6.12	B4	176	Beam	5.75	V15X60	V15X60	3	No
N+6.12	B5	177	Beam	8.4	V15X60	V15X60	3	No
N+6.12	B6	263	Beam	4.5	V30X60	V30X60	3	No
N+6.12	B8	328	Beam	6.73333	V15X60	V15X60	3	No
N+6.12	B12	329	Beam	6.73334	V15X60	V15X60	3	No
N+6.12	B15	330	Beam	6.73333	V15X60	V15X60	3	No
N+6.12	B19	157	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B20	159	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B21	162	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B22	165	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B23	170	Beam	1.05	V60X60	V60X60	3	No
N+6.12	B25	321	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B29	324	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B31	260	Beam	1.05	V40X60	V40X60	3	No
N+6.12	B34	145	Beam	7.25	V50X60	V50X60	3	No
N+6.12	B35	146	Beam	5.75	V50X60	V50X60	3	No
N+6.12	B36	147	Beam	8.4	V50X60	V50X60	3	No
N+6.12	B37	148	Beam	4.5	V50X60	V50X60	3	No
N+6.12	B38	149	Beam	1.4	V60X140	V60X140	3	No
N+6.12	B40	261	Beam	17.4	V60X140	V60X140	3	No
N+6.12	B42	262	Beam	1.4	V60X140	V60X140	3	No
N+6.12	B43	168	Beam	1.4	V60X140	V60X140	3	No
N+6.12	B44	259	Beam	1.4	V40X140	V40X140	3	No
N+6.12	B55	264	Beam	2.5	V30X60	V30X60	3	No
N+6.12	B56	265	Beam	2	V30X60	V30X60	3	No
N+6.12	B59	158	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B60	160	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B61	163	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B62	166	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B80	182	Beam	2.05	V50X60	V50X60	3	No
N+6.12	B82	141	Beam	7.25	V50X60	V50X60	3	No
N+6.12	B83	142	Beam	5.75	V50X60	V50X60	3	No
N+6.12	B84	143	Beam	8.4	V50X60	V50X60	3	No
N+6.12	B85	144	Beam	4.5	V50X60	V50X60	3	Yes
N+6.12	B86	169	Beam	12	V60X140	V60X140	3	No
N+6.12	B88	316	Beam	6.73333	V50X60	V50X60	3	No
N+6.12	B90	319	Beam	14.8	V40X100	V40X100	3	No
N+6.12	B92	317	Beam	6.73334	V50X60	V50X60	3	No
N+6.12	B94	322	Beam	14.8	V40X100	V40X100	3	No
N+6.12	B96	318	Beam	6.73333	V50X60	V50X60	3	No
N+6.12	B98	258	Beam	12	V40X140	V40X140	3	No
N+6.12	B115	184	Beam	7.4	V15X60	V15X60	3	Yes
N+6.12	B118	183	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B119	161	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B120	164	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B121	167	Beam	7.4	V40X60	V40X60	3	No
N+6.12	B124	178	Beam	8.4	V40X60	V40X60	3	Yes

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N+6.12	B131	179	Beam	2.55	V30X60	V30X60	3	Yes
N+6.12	B132	180	Beam	2.55	V30X60	V30X60	3	Yes
N+6.12	B133	171	Beam	1.4	V60X140	V60X140	3	No
N+6.12	B134	173	Beam	1.4	V40X140	V40X140	3	No
N+6.12	B135	181	Beam	2.05	V50X60	V50X60	3	No
N+6.12	B137	150	Beam	7.25	V50X60	V50X60	3	No
N+6.12	B138	151	Beam	5.75	V50X60	V50X60	3	No
N+6.12	B139	152	Beam	8.4	V50X60	V50X60	3	No
N+6.12	B140	153	Beam	4.5	V50X60	V50X60	3	No
N+6.12	B141	154	Beam	1.4	V60X140	V60X140	3	No
N+6.12	B143	155	Beam	17.4	V60X140	V60X140	3	No
N+6.12	B145	156	Beam	1.4	V60X140	V60X140	3	No
N+6.12	B146	172	Beam	2.25	V60X60	V60X60	3	No
N+6.12	B152	320	Beam	2.25	V40X60	V40X60	3	No
N+6.12	B160	323	Beam	2.25	V40X60	V40X60	3	No
N+6.12	B165	174	Beam	2.25	V40X60	V40X60	3	No
N+6.12	B168	325	Beam	6.73333	V15X60	V15X60	3	No
N+6.12	B173	326	Beam	6.73334	V15X60	V15X60	3	No
N+6.12	B176	327	Beam	6.73333	V15X60	V15X60	3	No
N+3.06	B2	347	Beam	1.45	V15X60	V15X60	3	No
N+3.06	B3	103	Beam	7.25	V15X60	V15X60	3	No
N+3.06	B4	104	Beam	5.75	V15X60	V15X60	3	No
N+3.06	B5	105	Beam	8.4	V15X60	V15X60	3	No
N+3.06	B18	348	Beam	1.05	V15X60	V15X60	3	No
N+3.06	B19	92	Beam	1.05	V40X60	V40X60	3	No
N+3.06	B20	94	Beam	1.05	V40X60	V40X60	3	No
N+3.06	B21	97	Beam	1.05	V40X60	V40X60	3	No
N+3.06	B22	100	Beam	1.05	V40X60	V40X60	3	No
N+3.06	B33	350	Beam	1.45	V50X60	V50X60	3	No
N+3.06	B34	86	Beam	7.25	V50X60	V50X60	3	No
N+3.06	B35	87	Beam	5.75	V50X60	V50X60	3	No
N+3.06	B36	88	Beam	8.4	V50X60	V50X60	3	No
N+3.06	B37	253	Beam	4.5	V50X60	V50X60	3	No
N+3.06	B43	256	Beam	1.4	V40X60	V40X60	3	No
N+3.06	B47	257	Beam	2.1	V40X60	V40X60	3	No
N+3.06	B55	254	Beam	2.5	V30X60	V30X60	3	No
N+3.06	B56	255	Beam	2	V30X60	V30X60	3	No
N+3.06	B58	349	Beam	7.4	V15X60	V15X60	3	No
N+3.06	B59	93	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B60	95	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B61	98	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B62	101	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B81	111	Beam	1.45	V50X60	V50X60	3	No
N+3.06	B82	83	Beam	7.25	V50X60	V50X60	3	No
N+3.06	B83	84	Beam	5.75	V50X60	V50X60	3	No
N+3.06	B84	85	Beam	8.4	V50X60	V50X60	3	No
N+3.06	B99	340	Beam	9.9	V40X60	V40X60	3	No
N+3.06	B109	339	Beam	4.5	V40X60	V40X60	3	No
N+3.06	B117	112	Beam	7.4	V15X60	V15X60	3	No
N+3.06	B118	109	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B119	96	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B120	99	Beam	7.4	V40X60	V40X60	3	No
N+3.06	B121	102	Beam	7.4	V40X60	V40X60	3	No

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N+3.06	B124	106	Beam	8.4	V40X60	V40X60	3	Yes
N+3.06	B131	107	Beam	2.55	V30X60	V30X60	3	Yes
N+3.06	B132	108	Beam	2.55	V30X60	V30X60	3	Yes
N+3.06	B133	315	Beam	1.4	V40X60	V40X60	3	No
N+3.06	B136	110	Beam	1.45	V50X60	V50X60	3	No
N+3.06	B137	89	Beam	7.25	V50X60	V50X60	3	No
N+3.06	B138	90	Beam	5.75	V50X60	V50X60	3	No
N+3.06	B139	91	Beam	8.4	V50X60	V50X60	3	No
N+3.06	B140	116	Beam	4.5	V50X60	V50X60	3	No
N+3.06	B143	115	Beam	17.4	IPE360	IPE360	3	Yes
N+3.06	B146	113	Beam	2.25	V40X60	V40X60	3	Yes
N+3.06	B147	118	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B149	119	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B150	120	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B151	121	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B154	122	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B156	123	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B157	124	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B159	125	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B161	126	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B162	127	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B164	128	Beam	2.25	IPE120	IPE120	3	Yes
N+3.06	B165	114	Beam	2.25	IPE360	IPE360	3	No
N+3.06	B171	117	Beam	20.2	IPE360	IPE360	3	Yes
N-0.05	B1	344	Beam	2.05	V40X60	V40X60	3	No
N-0.05	B3	60	Beam	7.25	V40X60	V40X60	3	No
N-0.05	B4	61	Beam	5.75	V40X60	V40X60	3	No
N-0.05	B5	62	Beam	8.4	V40X60	V40X60	3	No
N-0.05	B6	63	Beam	4.5	V40X60	V40X60	3	No
N-0.05	B10	64	Beam	9.93	V40X60	V40X60	3	No
N-0.05	B13	250	Beam	10.27	V40X60	V40X60	3	No
N-0.05	B17	343	Beam	1.05	V40X60	V40X60	3	No
N-0.05	B19	36	Beam	1.05	V40X60	V40X60	3	No
N-0.05	B20	38	Beam	1.05	V40X60	V40X60	3	No
N-0.05	B21	41	Beam	1.05	V40X60	V40X60	3	No
N-0.05	B22	44	Beam	1.05	V40X60	V40X60	3	No
N-0.05	B23	49	Beam	1.05	V50X60	V50X60	3	No
N-0.05	B27	53	Beam	1.05	V50X60	V50X60	3	No
N-0.05	B31	247	Beam	1.05	V35X60	V35X60	3	No
N-0.05	B32	345	Beam	2.05	V50X60	V50X60	3	No
N-0.05	B34	22	Beam	7.25	V50X60	V50X60	3	No
N-0.05	B35	23	Beam	5.75	V50X60	V50X60	3	No
N-0.05	B36	24	Beam	8.4	V50X60	V50X60	3	No
N-0.05	B37	25	Beam	4.5	V50X60	V50X60	3	No
N-0.05	B38	26	Beam	1.4	V50X60	V50X60	3	No
N-0.05	B39	27	Beam	8.53	V50X60	V50X60	3	No
N-0.05	B41	245	Beam	8.87	V50X60	V50X60	3	No
N-0.05	B42	246	Beam	1.4	V50X60	V50X60	3	No
N-0.05	B43	47	Beam	1.4	V50X60	V50X60	3	No
N-0.05	B44	249	Beam	1.4	V35X60	V35X60	3	No
N-0.05	B55	251	Beam	2.5	V30X60	V30X60	3	No
N-0.05	B56	252	Beam	2	V30X60	V30X60	3	No
N-0.05	B57	342	Beam	7.4	V40X60	V40X60	3	No

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
N-0.05	B59	37	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B60	39	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B61	42	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B62	45	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B63	54	Beam	7.4	V50X60	V50X60	3	No
N-0.05	B64	48	Beam	6	V50X60	V50X60	3	No
N-0.05	B65	248	Beam	6	V35X60	V35X60	3	No
N-0.05	B80	346	Beam	2.05	V50X60	V50X60	3	No
N-0.05	B82	16	Beam	7.25	V50X60	V50X60	3	No
N-0.05	B83	17	Beam	5.75	V50X60	V50X60	3	No
N-0.05	B84	18	Beam	8.4	V50X60	V50X60	3	No
N-0.05	B85	19	Beam	4.5	V50X60	V50X60	3	No
N-0.05	B89	20	Beam	9.93	V50X60	V50X60	3	No
N-0.05	B95	21	Beam	10.27	V50X60	V50X60	3	No
N-0.05	B107	50	Beam	6	V50X60	V50X60	3	No
N-0.05	B108	57	Beam	6	V35X60	V35X60	3	No
N-0.05	B116	240	Beam	7.4	V35X60	V35X60	3	No
N-0.05	B119	40	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B120	43	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B121	46	Beam	7.4	V40X60	V40X60	3	No
N-0.05	B122	55	Beam	7.4	V50X60	V50X60	3	No
N-0.05	B124	68	Beam	8.4	V40X60	V40X60	3	Yes
N-0.05	B131	69	Beam	2.55	V30X60	V30X60	3	Yes
N-0.05	B132	70	Beam	2.55	V30X60	V30X60	3	Yes
N-0.05	B133	51	Beam	1.4	V50X60	V50X60	3	No
N-0.05	B134	58	Beam	1.4	V35X60	V35X60	3	No
N-0.05	B137	28	Beam	7.25	V50X60	V50X60	3	No
N-0.05	B138	29	Beam	5.75	V50X60	V50X60	3	No
N-0.05	B139	30	Beam	8.4	V50X60	V50X60	3	No
N-0.05	B140	31	Beam	4.5	V50X60	V50X60	3	No
N-0.05	B141	32	Beam	1.4	V50X60	V50X60	3	No
N-0.05	B142	33	Beam	8.53	V50X60	V50X60	3	No
N-0.05	B144	34	Beam	8.87	V50X60	V50X60	3	No
N-0.05	B145	35	Beam	1.4	V50X60	V50X60	3	No
N-0.05	B146	52	Beam	2.25	V50X60	V50X60	3	No
N-0.05	B155	56	Beam	2.25	V50X60	V50X60	3	No
N-0.05	B165	59	Beam	2.25	V35X60	V35X60	3	No
N-0.05	B166	65	Beam	4.5	V15X60	V15X60	3	No
N-0.05	B170	66	Beam	9.93	V15X60	V15X60	3	No
N-0.05	B174	67	Beam	10.27	V15X60	V15X60	3	No

Shell Assignments - Summary

Story	Label	Unique Name	Section	Axis Angle deg	Pier
N+10.50	W19	171	PANT25		PE3
N+10.50	W20	172	PANT25		PE3
N+10.50	W21	173	PANT25		PE3
N+10.50	W22	71	PANT60		PC
N+10.50	W23	86	PANT60		PD
N+10.50	W25	70	PANT60		PC1
N+10.50	W26	90	PANT60		PD1
N+10.50	W27	103	PANT25		PE2

Story	Label	Unique Name	Section	Axis Angle deg	Pier
N+10.50	W29	179	PANT25		PE4
N+10.50	W30	178	PANT25		PE4
N+10.50	W32	177	PANT25		PE4
N+10.50	W33	174	PANT25		PE1
N+10.50	W34	175	PANT25		PE1
N+10.50	W35	176	PANT25		PE1
N+10.50	W40	69	PANT60		PA1
N+10.50	W41	73	PANT60		PB1
N+10.50	W42	68	PANT60		PA
N+10.50	W43	72	PANT60		PB
N+6.12	W19	159	PANT25		PE3
N+6.12	W20	160	PANT25		PE3
N+6.12	W21	161	PANT25		PE3
N+6.12	W22	50	PANT60		PC
N+6.12	W23	87	PANT60		PD
N+6.12	W24	164	PANT25		PE2
N+6.12	W25	49	PANT60		PC1
N+6.12	W26	91	PANT60		PD1
N+6.12	W28	163	PANT25		PE2
N+6.12	W29	170	PANT25		PE4
N+6.12	W30	169	PANT25		PE4
N+6.12	W31	162	PANT25		PE2
N+6.12	W32	168	PANT25		PE4
N+6.12	W33	165	PANT25		PE1
N+6.12	W34	166	PANT25		PE1
N+6.12	W35	167	PANT25		PE1
N+6.12	W40	48	PANT60		PA1
N+6.12	W41	52	PANT60		PB1
N+6.12	W42	47	PANT60		PA
N+6.12	W43	51	PANT60		PB
N+3.06	W19	147	PANT25		PE3
N+3.06	W20	148	PANT25		PE3
N+3.06	W21	149	PANT25		PE3
N+3.06	W22	42	PANT60		PC
N+3.06	W23	88	PANT60		PD
N+3.06	W24	152	PANT25		PE2
N+3.06	W25	41	PANT60		PC1
N+3.06	W26	92	PANT60		PD1
N+3.06	W28	151	PANT25		PE2
N+3.06	W29	158	PANT25		PE4
N+3.06	W30	157	PANT25		PE4
N+3.06	W31	150	PANT25		PE2
N+3.06	W32	156	PANT25		PE4
N+3.06	W33	153	PANT25		PE1
N+3.06	W34	154	PANT25		PE1
N+3.06	W35	155	PANT25		PE1
N+3.06	W40	40	PANT60		PA1
N+3.06	W41	44	PANT60		PB1
N+3.06	W42	39	PANT60		PA
N+3.06	W43	43	PANT60		PB
N-0.05	W1	194	MUROCONT		
N-0.05	W2	189	MUROCONT		
N-0.05	W3	190	MUROCONT		

Story	Label	Unique Name	Section	Axis Angle deg	Pier
N-0.05	W4	191	MUROCONT		
N-0.05	W5	192	MUROCONT		
N-0.05	W6	193	MUROCONT		
N-0.05	W7	186	MUROCONT		
N-0.05	W8	187	MUROCONT		
N-0.05	W9	188	MUROCONT		
N-0.05	W10	132	MUROCONT		
N-0.05	W11	183	MUROCONT		
N-0.05	W12	184	MUROCONT		
N-0.05	W13	185	MUROCONT		
N-0.05	W14	180	MUROCONT		
N-0.05	W15	181	MUROCONT		
N-0.05	W16	182	MUROCONT		
N-0.05	W17	7	MUROCONT		
N-0.05	W18	93	MUROCONT		
N-0.05	W19	135	PANT25		PE3
N-0.05	W20	136	PANT25		PE3
N-0.05	W21	137	PANT25		PE3
N-0.05	W22	4	PANT60		PC
N-0.05	W23	85	PANT60		PD
N-0.05	W24	140	PANT25		PE2
N-0.05	W25	3	PANT60		PC1
N-0.05	W26	89	PANT60		PD1
N-0.05	W28	139	PANT25		PE2
N-0.05	W29	146	PANT25		PE4
N-0.05	W30	145	PANT25		PE4
N-0.05	W31	138	PANT25		PE2
N-0.05	W32	144	PANT25		PE4
N-0.05	W33	141	PANT25		PE1
N-0.05	W34	142	PANT25		PE1
N-0.05	W35	143	PANT25		PE1
N-0.05	W36	134	MUROCONT		
N-0.05	W37	130	MUROCONT		
N-0.05	W38	131	MUROCONT		
N-0.05	W39	133	MUROCONT		
N-0.05	W40	2	PANT60		PA1
N-0.05	W41	6	PANT60		PB1
N-0.05	W42	1	PANT60		PA
N-0.05	W43	5	PANT60		PB
N-0.05	W44	8	MUROCONT		
N+10.50	F3	75	LOSA60	90	
N+10.50	F5	76	LOSA60	90	
N+10.50	F6	77	LOSA60	90	
N+10.50	F7	78	LOSA60	90	
N+10.50	F18	104	LOSA60	90	
N+10.50	F22	106	LOSA60	90	
N+10.50	F23	101	LOSA60		
N+10.50	F26	127	TEJA	90	
N+10.50	F28	74	LOSA60	90	
N+10.50	F29	128	TEJA	90	
N+10.50	F34	102	LOSA60	90	
N+10.50	F36	111	LOSA60	90	
N+10.50	F40	113	LOSA60	90	

Story	Label	Unique Name	Section	Axis Angle deg	Pier
N+10.50	F42	81	LOSA60	90	
N+10.50	F44	126	TEJA	90	
N+10.50	F46	82	LOSA60	90	
N+10.50	F47	79	LOSA60	90	
N+10.50	F56	108	LOSA60		
N+10.50	F60	110	LOSA60	90	
N+10.50	F68	202	LOSA60	90	
N+10.50	F71	203	LOSA60	90	
N+10.50	F72	204	LOSA60	90	
N+10.50	F73	205	LOSA60	90	
N+10.50	F74	105	LOSA60	90	
N+10.50	F76	109	LOSA60	90	
N+10.50	F77	112	TEJA	90	
N+6.12	F3	56	LOSA60	90	
N+6.12	F5	57	LOSA60	90	
N+6.12	F6	63	LOSA60	90	
N+6.12	F7	98	LOSA60	90	
N+6.12	F9	123	LOSA60	90	
N+6.12	F13	124	LOSA60	90	
N+6.12	F16	125	LOSA60	90	
N+6.12	F23	99	LOSA60		
N+6.12	F26	55	LOSA60	90	
N+6.12	F28	54	LOSA60	90	
N+6.12	F29	58	LOSA60	90	
N+6.12	F30	120	LOSA60	90	
N+6.12	F32	121	LOSA60	90	
N+6.12	F33	122	LOSA60	90	
N+6.12	F34	100	LOSA60	90	
N+6.12	F41	59	LOSA60	90	
N+6.12	F42	67	LOSA60	90	
N+6.12	F44	66	LOSA60	90	
N+6.12	F45	53	LOSA60	90	
N+6.12	F47	64	LOSA60	90	
N+6.12	F48	117	LOSA60	90	
N+6.12	F50	118	LOSA60	90	
N+6.12	F51	119	LOSA60	90	
N+6.12	F53	61	LOSA60	90	
N+6.12	F54	62	LOSA60		
N+6.12	F55	60	LOSA60	90	
N+6.12	F61	65	LOSA60	90	
N+6.12	F62	114	LOSA60	90	
N+6.12	F65	115	LOSA60	90	
N+6.12	F67	116	LOSA60	90	
N+3.06	F2	201	LOSA60	90	
N+3.06	F3	30	LOSA60	90	
N+3.06	F5	31	LOSA60	90	
N+3.06	F6	37	LOSA60	90	
N+3.06	F23	97	LOSA60		
N+3.06	F25	200	LOSA60	90	
N+3.06	F26	29	LOSA60	90	
N+3.06	F28	28	LOSA60	90	
N+3.06	F29	32	LOSA60	90	
N+3.06	F41	33	LOSA60	90	

Story	Label	Unique Name	Section	Axis Angle deg	Pier
N+3.06	F43	199	LOSA60	90	
N+3.06	F44	38	LOSA60	90	
N+3.06	F45	27	LOSA60	90	
N+3.06	F52	129	LOSA60	90	
N+3.06	F53	35	LOSA60	90	
N+3.06	F54	36	LOSA60		
N+3.06	F55	34	LOSA60	90	
N+3.06	F61	46	LOSA60	90	
N+3.06	F64	45	STEELDECK		
N-0.05	F1	195	LOSA60	90	
N-0.05	F4	196	LOSA60	90	
N-0.05	F5	11	LOSA60	90	
N-0.05	F6	17	LOSA60	90	
N-0.05	F7	18	LOSA60	90	
N-0.05	F11	24	LOSA60	90	
N-0.05	F14	94	LOSA60	90	
N-0.05	F23	95	LOSA60		
N-0.05	F24	197	LOSA60	90	
N-0.05	F27	198	LOSA60	90	
N-0.05	F28	10	LOSA60	90	
N-0.05	F29	12	LOSA60	90	
N-0.05	F31	23	LOSA60	90	
N-0.05	F34	96	LOSA60	90	
N-0.05	F35	26	LOSA60	90	
N-0.05	F41	13	LOSA60	90	
N-0.05	F44	84	LOSA60	90	
N-0.05	F45	9	LOSA60	90	
N-0.05	F47	19	LOSA60	90	
N-0.05	F49	22	LOSA60	90	
N-0.05	F53	15	LOSA60	90	
N-0.05	F54	16	LOSA60		
N-0.05	F55	14	LOSA60	90	
N-0.05	F61	20	LOSA60	90	
N-0.05	F63	21	LOSA60	90	
N-0.05	F66	25	LOSA60	90	

4 Loads

Load Patterns

Name	Type	Self Weight Multiplier	Auto Load
DEAD	Dead	1	
LIVE	Live	0	
FHE	Seismic	0	User Coefficient
FHEU	Seismic	0	User Coefficient

Auto Seismic - User Coefficients

Load Pattern	Type	Direction	Top Story	Bottom Story	C	K	Weight Used tonf	Base Shear tonf
FHE	Seismic	X	N+10.50	N-0.05	0.506	1	2590.1298	1310.6057
FHEU	Seismic	X	N+10.50	N-0.05	0.27	1	2590.1298	699.335

Response Spectrum Function - User

Name	Period sec	Acceleration	Damping %
MICROBOG	0	0.506	5
MICROBOG	0.025	0.506	
MICROBOG	0.05	0.506	
MICROBOG	0.075	0.506	
MICROBOG	0.1	0.506	
MICROBOG	0.125	0.506	
MICROBOG	0.15	0.506	
MICROBOG	0.175	0.506	
MICROBOG	0.2	0.506	
MICROBOG	0.225	0.506	
MICROBOG	0.25	0.506	
MICROBOG	0.275	0.506	
MICROBOG	0.3	0.506	
MICROBOG	0.325	0.506	
MICROBOG	0.35	0.506	
MICROBOG	0.375	0.506	
MICROBOG	0.4	0.506	
MICROBOG	0.425	0.506	
MICROBOG	0.45	0.506	
MICROBOG	0.475	0.506	
MICROBOG	0.5	0.506	
MICROBOG	0.525	0.506	
MICROBOG	0.55	0.506	
MICROBOG	0.575	0.506	
MICROBOG	0.65	0.506	
MICROBOG	0.675	0.506	
MICROBOG	0.7	0.506	
MICROBOG	0.725	0.506	
MICROBOG	0.75	0.506	
MICROBOG	0.775	0.506	
MICROBOG	0.8	0.506	
MICROBOG	0.825	0.506	
MICROBOG	0.85	0.506	

Name	Period sec	Accelerati on	Damping %
MICROBOG	0.875	0.494	
MICROBOG	0.9	0.48	
MICROBOG	0.925	0.467	
MICROBOG	0.95	0.455	
MICROBOG	0.975	0.443	
MICROBOG	1	0.432	
MICROBOG	1.025	0.421	
MICROBOG	1.05	0.411	
MICROBOG	1.075	0.402	
MICROBOG	1.1	0.393	
MICROBOG	1.125	0.384	
MICROBOG	1.15	0.376	
MICROBOG	1.175	0.368	
MICROBOG	1.2	0.36	
MICROBOG	1.225	0.353	
MICROBOG	1.25	0.346	
MICROBOG	1.275	0.339	
MICROBOG	1.3	0.332	
MICROBOG	1.325	0.326	
MICROBOG	1.35	0.32	
MICROBOG	1.375	0.314	
MICROBOG	1.4	0.309	
MICROBOG	1.425	0.303	
MICROBOG	1.45	0.298	
MICROBOG	1.475	0.293	
MICROBOG	1.5	0.288	
MICROBOG	1.525	0.283	
MICROBOG	1.55	0.279	
MICROBOG	1.575	0.274	
MICROBOG	1.6	0.27	
MICROBOG	1.625	0.266	
MICROBOG	1.65	0.262	
MICROBOG	1.675	0.258	
MICROBOG	1.7	0.254	
MICROBOG	1.725	0.25	
MICROBOG	1.75	0.247	
MICROBOG	1.775	0.243	
MICROBOG	1.8	0.24	
MICROBOG	1.825	0.237	
MICROBOG	1.85	0.234	
MICROBOG	1.875	0.23	
MICROBOG	1.9	0.227	
MICROBOG	1.925	0.224	
MICROBOG	1.95	0.222	
MICROBOG	1.975	0.219	
MICROBOG	2	0.216	
MICROBOG	2.025	0.213	
MICROBOG	2.05	0.211	
MICROBOG	2.075	0.208	
MICROBOG	2.1	0.206	
MICROBOG	2.125	0.203	
MICROBOG	2.15	0.201	
MICROBOG	2.175	0.199	
MICROBOG	2.2	0.196	

Name	Period sec	Accelerati on	Damping %
MICROBOG	2.225	0.194	
MICROBOG	2.25	0.192	
MICROBOG	2.275	0.19	
MICROBOG	2.3	0.188	
MICROBOG	2.325	0.186	
MICROBOG	2.35	0.184	
MICROBOG	2.375	0.182	
MICROBOG	2.4	0.18	
MICROBOG	2.425	0.178	
MICROBOG	2.45	0.176	
MICROBOG	2.475	0.175	
MICROBOG	2.5	0.173	
MICROBOG	2.525	0.171	
MICROBOG	2.55	0.169	
MICROBOG	2.575	0.168	
MICROBOG	2.6	0.166	
MICROBOG	2.625	0.165	
MICROBOG	2.65	0.163	
MICROBOG	2.675	0.161	
MICROBOG	2.7	0.16	
MICROBOG	2.725	0.159	
MICROBOG	2.75	0.157	
MICROBOG	2.775	0.156	
MICROBOG	2.8	0.154	
MICROBOG	2.825	0.153	
MICROBOG	2.85	0.152	
MICROBOG	2.875	0.15	
MICROBOG	2.9	0.149	
MICROBOG	2.925	0.148	
MICROBOG	2.95	0.146	
MICROBOG	2.975	0.145	
MICROBOG	3	0.144	
MICROBOG	3.025	0.143	
MICROBOG	3.05	0.142	
MICROBOG	3.075	0.14	
MICROBOG	3.1	0.139	
MICROBOG	3.125	0.138	
MICROBOG	3.15	0.137	
MICROBOG	3.175	0.136	
MICROBOG	3.2	0.135	
MICROBOG	3.225	0.134	
MICROBOG	3.25	0.133	
MICROBOG	3.275	0.132	
MICROBOG	3.3	0.131	
MICROBOG	3.325	0.13	
MICROBOG	3.35	0.129	
MICROBOG	3.375	0.128	
MICROBOG	3.4	0.127	
MICROBOG	3.425	0.126	
MICROBOG	3.45	0.125	
MICROBOG	3.475	0.124	
MICROBOG	3.5	0.123	
MICROBOG	3.525	0.122	
MICROBOG	3.55	0.12	

Name	Period sec	Accelerati on	Damping %
MICROBOG	3.575	0.118	
MICROBOG	3.6	0.117	
MICROBOG	3.625	0.115	
MICROBOG	3.65	0.113	
MICROBOG	3.675	0.112	
MICROBOG	3.7	0.11	
MICROBOG	3.725	0.109	
MICROBOG	3.75	0.108	
MICROBOG	3.775	0.106	
MICROBOG	3.8	0.105	
MICROBOG	3.825	0.103	
MICROBOG	3.85	0.102	
MICROBOG	3.875	0.101	
MICROBOG	3.9	0.099	
MICROBOG	3.925	0.098	
MICROBOG	3.95	0.097	
MICROBOG	3.975	0.096	
MICROBOG	4	0.095	
MICROBOG	4.025	0.093	
MICROBOG	4.05	0.092	
MICROBOG	4.075	0.091	
MICROBOG	4.1	0.09	
MICROBOG	4.125	0.089	
MICROBOG	4.15	0.088	
MICROBOG	4.175	0.087	
MICROBOG	4.2	0.086	
MICROBOG	4.225	0.085	
MICROBOG	4.25	0.084	
MICROBOG	4.275	0.083	
MICROBOG	4.3	0.082	
MICROBOG	4.325	0.081	
MICROBOG	4.35	0.08	
MICROBOG	4.375	0.079	
MICROBOG	4.4	0.078	
MICROBOG	4.425	0.077	
MICROBOG	4.45	0.076	
MICROBOG	4.475	0.076	
MICROBOG	4.5	0.075	
MICROBOG	4.525	0.074	
MICROBOG	4.55	0.073	
MICROBOG	4.575	0.072	
MICROBOG	4.6	0.071	
MICROBOG	4.625	0.071	
MICROBOG	4.65	0.07	
MICROBOG	4.675	0.069	
MICROBOG	4.7	0.068	
MICROBOG	4.725	0.068	
MICROBOG	4.75	0.067	
MICROBOG	4.775	0.066	
MICROBOG	4.8	0.066	
MICROBOG	4.825	0.065	
MICROBOG	4.85	0.064	
MICROBOG	4.875	0.064	
MICROBOG	4.9	0.063	

Name	Period sec	Accelerati on	Damping %
MICROBOG	4.925	0.062	
MICROBOG	4.95	0.062	
MICROBOG	4.975	0.061	
MICROBOG	5	0.06	
MICROBOG	5.025	0.06	
MICROBOG	5.05	0.059	
MICROBOG	5.075	0.059	
MICROBOG	5.1	0.058	
MICROBOG	5.125	0.058	
MICROBOG	5.15	0.057	
MICROBOG	5.175	0.056	
MICROBOG	5.2	0.056	
MICROBOG	5.225	0.055	
MICROBOG	5.25	0.055	
MICROBOG	5.275	0.054	
MICROBOG	5.3	0.054	
MICROBOG	5.325	0.053	
MICROBOG	5.35	0.053	
MICROBOG	5.375	0.052	
MICROBOG	5.4	0.052	
MICROBOG	5.425	0.051	
MICROBOG	5.45	0.051	
MICROBOG	5.475	0.05	
MICROBOG	5.5	0.05	
UMBMICROBOG	0	0.27	2
UMBMICROBOG	0.025	0.27	
UMBMICROBOG	0.05	0.27	
UMBMICROBOG	0.075	0.27	
UMBMICROBOG	0.1	0.27	
UMBMICROBOG	0.125	0.27	
UMBMICROBOG	0.15	0.27	
UMBMICROBOG	0.175	0.27	
UMBMICROBOG	0.2	0.27	
UMBMICROBOG	0.225	0.27	
UMBMICROBOG	0.25	0.27	
UMBMICROBOG	0.275	0.27	
UMBMICROBOG	0.3	0.27	
UMBMICROBOG	0.325	0.27	
UMBMICROBOG	0.35	0.27	
UMBMICROBOG	0.375	0.27	
UMBMICROBOG	0.4	0.27	
UMBMICROBOG	0.425	0.27	
UMBMICROBOG	0.45	0.27	
UMBMICROBOG	0.475	0.27	
UMBMICROBOG	0.5	0.27	
UMBMICROBOG	0.525	0.27	
UMBMICROBOG	0.55	0.27	
UMBMICROBOG	0.575	0.27	
UMBMICROBOG	0.6	0.27	
UMBMICROBOG	0.625	0.27	
UMBMICROBOG	0.65	0.27	
UMBMICROBOG	0.675	0.27	
UMBMICROBOG	0.7	0.27	
UMBMICROBOG	0.725	0.27	

Name	Period sec	Accelerati on	Damping %
UMBMICROBOG	0.75	0.27	
UMBMICROBOG	0.775	0.27	
UMBMICROBOG	0.8	0.27	
UMBMICROBOG	0.825	0.27	
UMBMICROBOG	0.85	0.265	
UMBMICROBOG	0.875	0.257	
UMBMICROBOG	0.9	0.25	
UMBMICROBOG	0.925	0.243	
UMBMICROBOG	0.95	0.237	
UMBMICROBOG	0.975	0.231	
UMBMICROBOG	1	0.225	
UMBMICROBOG	1.025	0.22	
UMBMICROBOG	1.05	0.214	
UMBMICROBOG	1.075	0.209	
UMBMICROBOG	1.1	0.205	
UMBMICROBOG	1.125	0.2	
UMBMICROBOG	1.15	0.196	
UMBMICROBOG	1.175	0.191	
UMBMICROBOG	1.2	0.188	
UMBMICROBOG	1.225	0.184	
UMBMICROBOG	1.25	0.18	
UMBMICROBOG	1.275	0.176	
UMBMICROBOG	1.3	0.173	
UMBMICROBOG	1.325	0.17	
UMBMICROBOG	1.35	0.167	
UMBMICROBOG	1.375	0.164	
UMBMICROBOG	1.4	0.161	
UMBMICROBOG	1.425	0.158	
UMBMICROBOG	1.45	0.155	
UMBMICROBOG	1.475	0.153	
UMBMICROBOG	1.5	0.15	
UMBMICROBOG	1.525	0.148	
UMBMICROBOG	1.55	0.145	
UMBMICROBOG	1.575	0.143	
UMBMICROBOG	1.6	0.141	
UMBMICROBOG	1.625	0.138	
UMBMICROBOG	1.65	0.136	
UMBMICROBOG	1.675	0.134	
UMBMICROBOG	1.7	0.132	
UMBMICROBOG	1.725	0.13	
UMBMICROBOG	1.75	0.129	
UMBMICROBOG	1.775	0.127	
UMBMICROBOG	1.8	0.125	
UMBMICROBOG	1.825	0.123	
UMBMICROBOG	1.85	0.122	
UMBMICROBOG	1.875	0.12	
UMBMICROBOG	1.9	0.118	
UMBMICROBOG	1.925	0.117	
UMBMICROBOG	1.95	0.115	
UMBMICROBOG	1.975	0.114	
UMBMICROBOG	2	0.113	
UMBMICROBOG	2.025	0.111	
UMBMICROBOG	2.05	0.11	
UMBMICROBOG	2.075	0.108	

Name	Period sec	Accelerati on	Damping %
UMBMICROBOG	2.1	0.107	
UMBMICROBOG	2.125	0.106	
UMBMICROBOG	2.15	0.105	
UMBMICROBOG	2.175	0.103	
UMBMICROBOG	2.2	0.102	
UMBMICROBOG	2.225	0.101	
UMBMICROBOG	2.25	0.1	
UMBMICROBOG	2.275	0.099	
UMBMICROBOG	2.3	0.098	
UMBMICROBOG	2.325	0.097	
UMBMICROBOG	2.35	0.096	
UMBMICROBOG	2.375	0.095	
UMBMICROBOG	2.4	0.094	
UMBMICROBOG	2.425	0.093	
UMBMICROBOG	2.45	0.092	
UMBMICROBOG	2.475	0.091	
UMBMICROBOG	2.5	0.09	
UMBMICROBOG	2.525	0.089	
UMBMICROBOG	2.55	0.088	
UMBMICROBOG	2.575	0.087	
UMBMICROBOG	2.6	0.087	
UMBMICROBOG	2.625	0.086	
UMBMICROBOG	2.65	0.085	
UMBMICROBOG	2.675	0.084	
UMBMICROBOG	2.7	0.083	
UMBMICROBOG	2.725	0.083	
UMBMICROBOG	2.75	0.082	
UMBMICROBOG	2.775	0.081	
UMBMICROBOG	2.8	0.08	
UMBMICROBOG	2.825	0.08	
UMBMICROBOG	2.85	0.079	
UMBMICROBOG	2.875	0.078	
UMBMICROBOG	2.9	0.078	
UMBMICROBOG	2.925	0.077	
UMBMICROBOG	2.95	0.076	
UMBMICROBOG	2.975	0.076	
UMBMICROBOG	3	0.075	
UMBMICROBOG	3.025	0.074	
UMBMICROBOG	3.05	0.074	
UMBMICROBOG	3.075	0.073	
UMBMICROBOG	3.1	0.073	
UMBMICROBOG	3.125	0.072	
UMBMICROBOG	3.15	0.071	
UMBMICROBOG	3.175	0.071	
UMBMICROBOG	3.2	0.07	
UMBMICROBOG	3.225	0.07	
UMBMICROBOG	3.25	0.069	
UMBMICROBOG	3.275	0.069	
UMBMICROBOG	3.3	0.068	
UMBMICROBOG	3.325	0.068	
UMBMICROBOG	3.35	0.067	
UMBMICROBOG	3.375	0.067	
UMBMICROBOG	3.4	0.066	
UMBMICROBOG	3.425	0.066	

Name	Period sec	Accelerati on	Damping %
UMBMICROBOG	3.45	0.065	
UMBMICROBOG	3.475	0.065	
UMBMICROBOG	3.5	0.064	
UMBMICROBOG	3.525	0.063	
UMBMICROBOG	3.55	0.062	
UMBMICROBOG	3.575	0.062	
UMBMICROBOG	3.6	0.061	
UMBMICROBOG	3.625	0.06	
UMBMICROBOG	3.65	0.059	
UMBMICROBOG	3.675	0.058	
UMBMICROBOG	3.7	0.058	
UMBMICROBOG	3.725	0.057	
UMBMICROBOG	3.75	0.056	
UMBMICROBOG	3.775	0.055	
UMBMICROBOG	3.8	0.055	
UMBMICROBOG	3.825	0.054	
UMBMICROBOG	3.85	0.053	
UMBMICROBOG	3.875	0.052	
UMBMICROBOG	3.9	0.052	
UMBMICROBOG	3.925	0.051	
UMBMICROBOG	3.95	0.05	
UMBMICROBOG	3.975	0.05	
UMBMICROBOG	4	0.049	
UMBMICROBOG	4.025	0.049	
UMBMICROBOG	4.05	0.048	
UMBMICROBOG	4.075	0.047	
UMBMICROBOG	4.1	0.047	
UMBMICROBOG	4.125	0.046	
UMBMICROBOG	4.15	0.046	
UMBMICROBOG	4.175	0.045	
UMBMICROBOG	4.2	0.045	
UMBMICROBOG	4.225	0.044	
UMBMICROBOG	4.25	0.044	
UMBMICROBOG	4.275	0.043	
UMBMICROBOG	4.3	0.043	
UMBMICROBOG	4.325	0.042	
UMBMICROBOG	4.35	0.042	
UMBMICROBOG	4.375	0.041	
UMBMICROBOG	4.4	0.041	
UMBMICROBOG	4.425	0.04	
UMBMICROBOG	4.45	0.04	
UMBMICROBOG	4.475	0.039	
UMBMICROBOG	4.5	0.039	
UMBMICROBOG	4.525	0.038	
UMBMICROBOG	4.55	0.038	
UMBMICROBOG	4.575	0.038	
UMBMICROBOG	4.6	0.037	
UMBMICROBOG	4.625	0.037	
UMBMICROBOG	4.65	0.036	
UMBMICROBOG	4.675	0.036	
UMBMICROBOG	4.7	0.036	
UMBMICROBOG	4.725	0.035	
UMBMICROBOG	4.75	0.035	
UMBMICROBOG	4.775	0.035	

Name	Period sec	Accelerati on	Damping %
UMBMICROBOG	4.8	0.034	
UMBMICROBOG	4.825	0.034	
UMBMICROBOG	4.85	0.033	
UMBMICROBOG	4.875	0.033	
UMBMICROBOG	4.9	0.033	
UMBMICROBOG	4.925	0.032	
UMBMICROBOG	4.95	0.032	
UMBMICROBOG	4.975	0.032	
UMBMICROBOG	5	0.032	
UMBMICROBOG	5.025	0.031	
UMBMICROBOG	5.05	0.031	
UMBMICROBOG	5.075	0.031	
UMBMICROBOG	5.1	0.03	
UMBMICROBOG	5.125	0.03	
UMBMICROBOG	5.15	0.03	
UMBMICROBOG	5.175	0.029	
UMBMICROBOG	5.2	0.029	
UMBMICROBOG	5.225	0.029	
UMBMICROBOG	5.25	0.029	
UMBMICROBOG	5.275	0.028	
UMBMICROBOG	5.3	0.028	
UMBMICROBOG	5.325	0.028	
UMBMICROBOG	5.35	0.028	
UMBMICROBOG	5.375	0.027	
UMBMICROBOG	5.4	0.027	
UMBMICROBOG	5.425	0.027	
UMBMICROBOG	5.45	0.027	
UMBMICROBOG	5.475	0.026	
UMBMICROBOG	5.5	0.026	

Load Cases - Summary

Name	Type
Modal	Modal - Eigen
DEAD	Linear Static
LIVE	Linear Static
FHE	Linear Static
FHEU	Linear Static
VIENTO	Linear Static
SISMOX	Response Spectrum
SISMOY	Response Spectrum
UMBRALX	Response Spectrum
UMBRALY	Response Spectrum
~TorsionSISMOX	Linear Static
~TorsionSISMOY	Linear Static
~TorsionUMBRAL X	Linear Static
~TorsionUMBRAL Y	Linear Static

Load Cases - Static - Linear

Name	Stiffness From	Mass Source	Load Type	Load Name	Scale Factor	Design Load Type
DEAD	Preset P-delta	MsSrc1	Load Pattern	DEAD	1	Program Determined
LIVE	Preset P-delta	MsSrc1	Load Pattern	LIVE	1	Program Determined
FHE	Preset P-delta	MsSrc1	Load Pattern	FHE	1	Program Determined
FHEU	Preset P-delta	MsSrc1	Load Pattern	FHEU	1	Program Determined
~TorsionSIS MOX	Preset P-delta	MsSrc1	Load Pattern	~SISMOXE CC	1	Program Determined
~TorsionSIS MOY	Preset P-delta	MsSrc1	Load Pattern	~SISMOYE CC	1	Program Determined
~TorsionUM BRALX	Preset P-delta	MsSrc1	Load Pattern	~UMBRALX ECC	1	Program Determined
~TorsionUM BRALY	Preset P-delta	MsSrc1	Load Pattern	~UMBRALY ECC	1	Program Determined

Load Cases - Modal - Eigen

Name	Stiffness From	Mass Source	Max Number Modes	Min Number Modes	Frequency Shift cyc/sec	Cutoff Frequency cyc/sec	Convergence Tolerance	Auto Shift?	Design Load Type
Modal	Preset P-delta	MsSrc1	12	12	0	0	1E-07	Yes	Program Determined

Load Cases - Response Spectrum (Part 1 of 2)

Name	Mass Source	Load Type	Load Name	Function	Scale Factor	Coordinate System	Angle deg	Modal Case	Modal Combination Method	Include Rigid Response	Directional Combination Method	Design Load Type
SISMOX	Previous (MsSrc1)	Acceleration	U1	MICROBOG	11.43	Global	0	Modal	CQC	No	SRSS	Program Determined
SISMOY	Previous (MsSrc1)	Acceleration	U2	MICROBOG	9.81	Global	0	Modal	CQC	No	SRSS	Program Determined
UMBRALX	Previous (MsSrc1)	Acceleration	U1	UMBMICROBOG	12.4	Global	0	Modal	CQC	No	SRSS	Program Determined
UMBRALY	Previous (MsSrc1)	Acceleration	U2	UMBMICROBOG	10.63	Global	0	Modal	CQC	No	SRSS	Program Determined

Load Cases - Response Spectrum (Part 2 of 2)

Name	Eccentricity Ratio	Eccentricity Overrides	Constant Damping
SISMOX	0.05	No	0.05
SISMOY	0.05	No	0.05
UMBRALX	0.05	No	0.02
UMBRALY	0.05	No	0.02

P-delta Options**Automatic
Method**

None

Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
C1	DEAD	1.4	Linear Add	No
C2	DEAD	1.2	Linear Add	No
C2	LIVE	1.6		No
C3	DEAD	1.2	Linear Add	No
C3	LIVE	1		No
C3	SISMOX	0.333		No
C3	SISMOY	0.1		No
C4	DEAD	1.2	Linear Add	No
C4	LIVE	1		No
C4	SISMOX	0.333		No
C4	SISMOY	-0.1		No
C5	DEAD	1.2	Linear Add	No
C5	LIVE	1		No
C5	SISMOX	-0.333		No
C5	SISMOY	0.1		No
C6	DEAD	1.2	Linear Add	No
C6	LIVE	1		No
C6	SISMOX	-0.333		No
C6	SISMOY	-0.1		No
C7	DEAD	1.2	Linear Add	No
C7	LIVE	1		No
C7	SISMOX	0.1		No
C7	SISMOY	0.333		No
C8	DEAD	1.2	Linear Add	No
C8	LIVE	1		No
C8	SISMOX	0.1		No
C8	SISMOY	-0.333		No
C9	DEAD	1.2	Linear Add	No
C9	LIVE	1		No
C9	SISMOX	-0.1		No
C9	SISMOY	0.333		No
C10	DEAD	1.2	Linear Add	No
C10	LIVE	1		No
C10	SISMOX	-0.1		No
C10	SISMOY	-0.333		No
C11	DEAD	0.9	Linear Add	No
C11	SISMOX	0.333		No
C11	SISMOY	0.1		No
C12	DEAD	0.9	Linear Add	No
C12	SISMOX	0.333		No
C12	SISMOY	-0.1		No
C13	DEAD	0.9	Linear Add	No
C13	SISMOX	-0.333		No
C13	SISMOY	0.1		No
C14	DEAD	0.9	Linear Add	No
C14	SISMOX	-0.333		No
C14	SISMOY	-0.1		No

Name	Load Case/Combo	Scale Factor	Type	Auto
C15	DEAD	0.9	Linear Add	No
C15	SISMOX	0.1		No
C15	SISMOY	0.333		No
C16	DEAD	0.9	Linear Add	No
C16	SISMOX	0.1		No
C16	SISMOY	-0.333		No
C17	DEAD	0.9	Linear Add	No
C17	SISMOX	-0.1		No
C17	SISMOY	0.333		No
C18	DEAD	0.9	Linear Add	No
C18	SISMOX	-0.1		No
C18	SISMOY	-0.333		No
ENVOL	C1	1	Envelope	No
ENVOL	C2	1		No
ENVOL	C7	1		No
ENVOL	C8	1		No
ENVOL	C9	1		No
ENVOL	C10	1		No
ENVOL	C11	1		No
ENVOL	C12	1		No
ENVOL	C13	1		No
ENVOL	C14	1		No
ENVOL	C15	1		No
ENVOL	C16	1		No
ENVOL	C17	1		No
ENVOL	C18	1		No
CIM1	DEAD	1	Linear Add	No
CIM2	DEAD	1	Linear Add	No
CIM2	LIVE	1		No
CIM3	DEAD	1	Linear Add	No
CIM3	SISMOX	0.233		No
CIM3	SISMOY	0.07		No
CIM4	DEAD	1	Linear Add	No
CIM4	SISMOX	0.07		No
CIM4	SISMOY	0.233		No
CIM5	DEAD	1	Linear Add	No
CIM5	LIVE	0.75		No
CIM5	SISMOX	0.175		No
CIM5	SISMOY	0.053		No
CIM6	DEAD	1	Linear Add	No
CIM6	LIVE	0.75		No
CIM6	SISMOX	0.053		No
CIM6	SISMOY	0.175		No
CIM7	DEAD	0.6	Linear Add	No
CIM7	SISMOX	0.233		No
CIM7	SISMOY	0.07		No
CIM8	DEAD	0.6	Linear Add	No
CIM8	SISMOX	0.07		No
CIM8	SISMOY	0.233		No
ENVCIM	CIM1	1	Envelope	No
ENVCIM	CIM2	1		No
ENVCIM	CIM3	1		No
ENVCIM	CIM4	1		No

Name	Load Case/Combo	Scale Factor	Type	Auto
ENVCIM	CIM5	1		No
ENVCIM	CIM6	1		No
ENVCIM	CIM7	1		No
ENVCIM	CIM8	1		No
D1	DEAD	0.9	Linear Add	No
D1	SISMOX	1		No
D1	SISMOY	0.3		No
D2	DEAD	0.9	Linear Add	No
D2	SISMOX	1		No
D2	SISMOY	-0.3		No
D3	DEAD	0.9	Linear Add	No
D3	SISMOX	-1		No
D3	SISMOY	0.3		No
D4	DEAD	0.9	Linear Add	No
D4	SISMOX	-1		No
D4	SISMOY	-0.3		No
D5	DEAD	0.9	Linear Add	No
D5	SISMOX	0.3		No
D5	SISMOY	1		No
D6	DEAD	0.9	Linear Add	No
D6	SISMOX	0.3		No
D6	SISMOY	-1		No
D7	DEAD	0.9	Linear Add	No
D7	SISMOX	-0.3		No
D7	SISMOY	1		No
D8	DEAD	0.9	Linear Add	No
D8	SISMOX	-0.3		No
D8	SISMOY	-1		No
DU1	DEAD	0.9	Linear Add	No
DU1	UMBRALX	1		No
DU1	UMBRALY	0.3		No
DU2	DEAD	0.9	Linear Add	No
DU2	UMBRALX	1		No
DU2	UMBRALY	-0.3		No
DU3	DEAD	0.9	Linear Add	No
DU3	UMBRALX	-1		No
DU3	UMBRALY	0.3		No
DU4	DEAD	0.9	Linear Add	No
DU4	UMBRALX	-1		No
DU4	UMBRALY	-0.3		No
DU5	DEAD	0.9	Linear Add	No
DU5	UMBRALX	0.3		No
DU5	UMBRALY	1		No
DU6	DEAD	0.9	Linear Add	No
DU6	UMBRALX	0.3		No
DU6	UMBRALY	-1		No
DU7	DEAD	0.9	Linear Add	No
DU7	UMBRALX	-0.3		No
DU7	UMBRALY	1		No
DU8	DEAD	0.9	Linear Add	No
DU8	UMBRALX	-0.3		No
DU8	UMBRALY	-1		No
VNC1	DEAD	1.3	Linear Add	No

Name	Load Case/Combo	Scale Factor	Type	Auto
VNC1	LIVE	1		No
VNC1	SISMOX	1		No
VNC1	SISMOY	0.3		No
VNC2	DEAD	1.3	Linear Add	No
VNC2	LIVE	1		No
VNC2	SISMOX	1		No
VNC2	SISMOY	-0.3		No
VNC3	DEAD	1.1	Linear Add	No
VNC3	LIVE	1		No
VNC3	SISMOX	-1		No
VNC3	SISMOY	0.3		No
VNC4	DEAD	1.1	Linear Add	No
VNC4	LIVE	1		No
VNC4	SISMOX	-1		No
VNC4	SISMOY	-0.3		No
VNC5	DEAD	1.3	Linear Add	No
VNC5	LIVE	1		No
VNC5	SISMOX	0.3		No
VNC5	SISMOY	1		No
VNC6	DEAD	1.3	Linear Add	No
VNC6	LIVE	1		No
VNC6	SISMOX	-0.3		No
VNC6	SISMOY	1		No
VNC7	DEAD	1.1	Linear Add	No
VNC7	LIVE	1		No
VNC7	SISMOX	0.3		No
VNC7	SISMOY	-1		No
VNC8	DEAD	1.1	Linear Add	No
VNC8	LIVE	1		No
VNC8	SISMOX	-0.3		No
VNC8	SISMOY	-1		No
VNC9	DEAD	1	Linear Add	No
VNC9	SISMOX	1		No
VNC9	SISMOY	0.3		No
VNC10	DEAD	1	Linear Add	No
VNC10	SISMOX	1		No
VNC10	SISMOY	-0.3		No
VNC11	DEAD	0.8	Linear Add	No
VNC11	SISMOX	-1		No
VNC11	SISMOY	0.3		No
VNC12	DEAD	0.8	Linear Add	No
VNC12	SISMOX	-1		No
VNC12	SISMOY	-0.3		No
VNC13	DEAD	1	Linear Add	No
VNC13	SISMOX	0.3		No
VNC13	SISMOY	1		No
VNC14	DEAD	1	Linear Add	No
VNC14	SISMOX	-0.3		No
VNC14	SISMOY	1		No
VNC15	DEAD	0.8	Linear Add	No
VNC15	SISMOX	0.3		No
VNC15	SISMOY	-1		No
VNC16	DEAD	0.8	Linear Add	No

Name	Load Case/Combo	Scale Factor	Type	Auto
VNC16	SISMOX	-0.3		No
VNC16	SISMOY	-1		No
VNV1	DEAD	1.2	Linear Add	No
VNV1	LIVE	1		No
VNV1	SISMOX	0.667		No
VNV1	SISMOY	0.2		No
VNV2	DEAD	1.2	Linear Add	No
VNV2	LIVE	1		No
VNV2	SISMOX	0.667		No
VNV2	SISMOY	-0.2		No
VNV3	DEAD	1.2	Linear Add	No
VNV3	LIVE	1		No
VNV3	SISMOX	-0.667		No
VNV3	SISMOY	0.2		No
VNV4	DEAD	1.2	Linear Add	No
VNV4	LIVE	1		No
VNV4	SISMOX	-0.667		No
VNV4	SISMOY	-0.2		No
VNV5	DEAD	1.2	Linear Add	No
VNV5	LIVE	1		No
VNV5	SISMOX	0.2		No
VNV5	SISMOY	0.667		No
VNV6	DEAD	1.2	Linear Add	No
VNV6	LIVE	1		No
VNV6	SISMOX	-0.2		No
VNV6	SISMOY	0.667		No
VNV7	DEAD	1.2	Linear Add	No
VNV7	LIVE	1		No
VNV7	SISMOX	0.2		No
VNV7	SISMOY	-0.667		No
VNV8	DEAD	1.2	Linear Add	No
VNV8	LIVE	1		No
VNV8	SISMOX	-0.2		No
VNV8	SISMOY	-0.667		No
VNV9	DEAD	0.9	Linear Add	No
VNV9	SISMOX	0.667		No
VNV9	SISMOY	0.2		No
VNV10	DEAD	0.9	Linear Add	No
VNV10	SISMOX	0.667		No
VNV10	SISMOY	-0.2		No
VNV11	DEAD	0.9	Linear Add	No
VNV11	SISMOX	-0.667		No
VNV11	SISMOY	0.2		No
VNV12	DEAD	0.9	Linear Add	No
VNV12	SISMOX	-0.667		No
VNV12	SISMOY	-0.2		No
VNV13	DEAD	0.9	Linear Add	No
VNV13	SISMOX	0.2		No
VNV13	SISMOY	0.667		No
VNV14	DEAD	0.9	Linear Add	No
VNV14	SISMOX	0.2		No
VNV14	SISMOY	-0.667		No
VNV15	DEAD	0.9	Linear Add	No

Name	Load Case/Combo	Scale Factor	Type	Auto
VNV15	SISMOX	-0.2		No
VNV15	SISMOY	0.667		No
VNV16	DEAD	0.9	Linear Add	No
VNV16	SISMOX	-0.2		No
VNV16	SISMOY	-0.667		No

5 Analysis Results

Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	0.381	2.623	16.4824	271.6704
Modal	2	0.284	3.522	22.1263	489.5749
Modal	3	0.223	4.494	28.2344	797.1829
Modal	4	0.108	9.24	58.0554	3370.4289
Modal	5	0.075	13.284	83.4673	6966.7876
Modal	6	0.069	14.475	90.9512	8272.1246
Modal	7	0.058	17.233	108.2766	11723.8192
Modal	8	0.055	18.163	114.1234	13024.1537
Modal	9	0.045	22.065	138.6392	19220.8207
Modal	10	0.043	23.286	146.3076	21405.9019
Modal	11	0.041	24.117	151.5287	22960.9415
Modal	12	0.034	29.293	184.0539	33875.8277

Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	0.381	0.1689	0.1204	0	0.1689	0.1204	0
Modal	2	0.284	0.0359	0.5662	0	0.2047	0.6866	0
Modal	3	0.223	0.4529	0.0001	0	0.6576	0.6867	0
Modal	4	0.108	0.0231	0.0547	0	0.6807	0.7414	0
Modal	5	0.075	0.0043	0.0276	0	0.685	0.769	0
Modal	6	0.069	0.06	0.0524	0	0.745	0.8214	0
Modal	7	0.058	0.0607	0.0297	0	0.8057	0.851	0
Modal	8	0.055	0.0052	0.0045	0	0.8109	0.8555	0
Modal	9	0.045	0.0001	0.0037	0	0.8109	0.8592	0
Modal	10	0.043	0.0002	0.0305	0	0.8112	0.8897	0
Modal	11	0.041	0.0021	0.0336	0	0.8133	0.9233	0
Modal	12	0.034	0.1069	0.0119	0	0.9201	0.9351	0

Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0.0366	0.1045	0.3724	0.0366	0.1045	0.3724
Modal	2	0.3494	0.0263	0.0739	0.3859	0.1309	0.4464
Modal	3	0.003	0.2848	0.1822	0.3889	0.4156	0.6286
Modal	4	0.1411	0.0374	0.0965	0.5299	0.4531	0.7251
Modal	5	0.0456	0.0077	0.0055	0.5756	0.4607	0.7306
Modal	6	0.0933	0.1026	0	0.6689	0.5633	0.7306
Modal	7	0.0497	0.0988	0.0049	0.7186	0.6621	0.7354
Modal	8	0.0054	0.0078	0.0384	0.724	0.67	0.7738

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	9	0.0068	0.0001	0.0021	0.7308	0.6701	0.7759
Modal	10	0.0648	0.0011	0.0095	0.7956	0.6712	0.7854
Modal	11	0.0748	0.006	0.0355	0.8704	0.6773	0.8209
Modal	12	0.018	0.1767	0.0029	0.8884	0.8539	0.8239

Modal Participation Factors


Case	Mode	Period sec	UX tonf-m	UY tonf-m	UZ tonf-m	RX tonf-m	RY tonf-m	RZ tonf-m	Modal Mass tonf-m-s ²	Modal Stiffness tonf-m
Modal	1	0.381	-7.913228	-6.682309	0	14.366453	-24.293107	181.262633	1	271.67043
Modal	2	0.284	3.647784	-14.490233	0	44.415323	12.196063	-80.763692	1	489.57493
Modal	3	0.223	12.959192	0.136328	0	-4.091468	40.100076	126.777902	1	797.1829
Modal	4	0.108	2.926435	4.505385	0	28.224226	-14.538151	-92.266994	1	3370.42889
Modal	5	0.075	-1.26506	3.197708	0	16.053403	6.58826	21.971299	1	6966.78761
Modal	6	0.069	4.716892	-4.408809	0	-22.953986	-24.065935	-0.038963	1	8272.12455
Modal	7	0.058	-4.743273	-3.31715	0	-16.751743	23.621238	-20.724103	1	11723.8192 1
Modal	8	0.055	1.386856	1.285906	0	5.542663	-6.654423	58.216186	1	13024.1537 4
Modal	9	0.045	0.177182	-1.168077	0	-6.200902	-0.859033	-13.554594	1	19220.8206 5
Modal	10	0.043	-0.298671	-3.363225	0	-19.125378	2.522389	28.910492	1	21405.9018 8
Modal	11	0.041	-0.880511	-3.528611	0	-20.546379	5.841882	55.976663	1	22960.9414 9
Modal	12	0.034	6.294822	-2.098818	0	-10.077091	-31.586159	-16.090943	1	33875.8276 9

Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	99.92	92.01
Modal	Acceleration	UY	99.94	93.51
Modal	Acceleration	UZ	0	0

Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0.381	0.255	0.155	0	0.59
Modal	2	0.284	0.058	0.854	0	0.088
Modal	3	0.223	0.688	0.008	0	0.305
Modal	4	0.108	0.139	0.432	0	0.429
Modal	5	0.075	0.028	0.108	0	0.864
Modal	6	0.069	0.41	0.264	0	0.326
Modal	7	0.058	0.283	0.093	0	0.624
Modal	8	0.055	0.143	0.519	0	0.338
Modal	9	0.045	0.011	0.68	0	0.309
Modal	10	0.043	0.043	0.763	0	0.195
Modal	11	0.041	0.08	0.646	0	0.274
Modal	12	0.034	0.714	0.104	0	0.181

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 1
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 4. CHEQUEO DE DERIVAS

Story Drifts


Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
N+10.50	D1 Max	184	Max Drift X	0.001848	47.25	18.1	10.5
N+10.50	D1 Max	138	Max Drift Y	0.003073	-0.9	15.85	10.5
N+10.50	D1 Min	184	Max Drift X	0.001924	47.25	18.1	10.5
N+10.50	D1 Min	138	Max Drift Y	0.003157	-0.9	15.85	10.5
N+10.50	D2 Max	184	Max Drift X	0.001848	47.25	18.1	10.5
N+10.50	D2 Max	138	Max Drift Y	0.003073	-0.9	15.85	10.5
N+10.50	D2 Min	184	Max Drift X	0.001924	47.25	18.1	10.5
N+10.50	D2 Min	138	Max Drift Y	0.003157	-0.9	15.85	10.5
N+10.50	D3 Max	184	Max Drift X	0.001848	47.25	18.1	10.5
N+10.50	D3 Max	138	Max Drift Y	0.003073	-0.9	15.85	10.5
N+10.50	D3 Min	184	Max Drift X	0.001924	47.25	18.1	10.5
N+10.50	D3 Min	138	Max Drift Y	0.003157	-0.9	15.85	10.5
N+10.50	D4 Max	184	Max Drift X	0.001848	47.25	18.1	10.5
N+10.50	D4 Max	138	Max Drift Y	0.003073	-0.9	15.85	10.5
N+10.50	D4 Min	184	Max Drift X	0.001924	47.25	18.1	10.5
N+10.50	D4 Min	138	Max Drift Y	0.003157	-0.9	15.85	10.5
N+10.50	D5 Max	184	Max Drift X	0.001721	47.25	18.1	10.5
N+10.50	D5 Max	138	Max Drift Y	0.002809	-0.9	15.85	10.5
N+10.50	D5 Min	184	Max Drift X	0.001796	47.25	18.1	10.5
N+10.50	D5 Min	138	Max Drift Y	0.002893	-0.9	15.85	10.5
N+10.50	D6 Max	184	Max Drift X	0.001721	47.25	18.1	10.5
N+10.50	D6 Max	138	Max Drift Y	0.002809	-0.9	15.85	10.5
N+10.50	D6 Min	184	Max Drift X	0.001796	47.25	18.1	10.5
N+10.50	D6 Min	138	Max Drift Y	0.002893	-0.9	15.85	10.5
N+10.50	D7 Max	184	Max Drift X	0.001721	47.25	18.1	10.5
N+10.50	D7 Max	138	Max Drift Y	0.002809	-0.9	15.85	10.5
N+10.50	D7 Min	184	Max Drift X	0.001796	47.25	18.1	10.5
N+10.50	D7 Min	138	Max Drift Y	0.002893	-0.9	15.85	10.5
N+10.50	D8 Max	184	Max Drift X	0.001721	47.25	18.1	10.5
N+10.50	D8 Max	138	Max Drift Y	0.002809	-0.9	15.85	10.5
N+10.50	D8 Min	184	Max Drift X	0.001796	47.25	18.1	10.5
N+10.50	D8 Min	138	Max Drift Y	0.002893	-0.9	15.85	10.5
N+10.50	DU1 Max	184	Max Drift X	0.001048	47.25	18.1	10.5
N+10.50	DU1 Max	138	Max Drift Y	0.001772	-0.9	15.85	10.5
N+10.50	DU1 Min	184	Max Drift X	0.001123	47.25	18.1	10.5
N+10.50	DU1 Min	138	Max Drift Y	0.001856	-0.9	15.85	10.5
N+10.50	DU2 Max	184	Max Drift X	0.001048	47.25	18.1	10.5
N+10.50	DU2 Max	138	Max Drift Y	0.001772	-0.9	15.85	10.5
N+10.50	DU2 Min	184	Max Drift X	0.001123	47.25	18.1	10.5
N+10.50	DU2 Min	138	Max Drift Y	0.001856	-0.9	15.85	10.5
N+10.50	DU3 Max	184	Max Drift X	0.001048	47.25	18.1	10.5
N+10.50	DU3 Max	138	Max Drift Y	0.001772	-0.9	15.85	10.5
N+10.50	DU3 Min	184	Max Drift X	0.001123	47.25	18.1	10.5
N+10.50	DU3 Min	138	Max Drift Y	0.001856	-0.9	15.85	10.5
N+10.50	DU4 Max	184	Max Drift X	0.001048	47.25	18.1	10.5
N+10.50	DU4 Max	138	Max Drift Y	0.001772	-0.9	15.85	10.5
N+10.50	DU4 Min	184	Max Drift X	0.001123	47.25	18.1	10.5
N+10.50	DU4 Min	138	Max Drift Y	0.001856	-0.9	15.85	10.5
N+10.50	DU5 Max	184	Max Drift X	0.000998	47.25	18.1	10.5
N+10.50	DU5 Max	138	Max Drift Y	0.001598	-0.9	15.85	10.5
N+10.50	DU5 Min	184	Max Drift X	0.001073	47.25	18.1	10.5
N+10.50	DU5 Min	138	Max Drift Y	0.001682	-0.9	15.85	10.5

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
N+10.50	DU6 Max	184	Max Drift X	0.000998	47.25	18.1	10.5
N+10.50	DU6 Max	138	Max Drift Y	0.001598	-0.9	15.85	10.5
N+10.50	DU6 Min	184	Max Drift X	0.001073	47.25	18.1	10.5
N+10.50	DU6 Min	138	Max Drift Y	0.001682	-0.9	15.85	10.5
N+10.50	DU7 Max	184	Max Drift X	0.000998	47.25	18.1	10.5
N+10.50	DU7 Max	138	Max Drift Y	0.001598	-0.9	15.85	10.5
N+10.50	DU7 Min	184	Max Drift X	0.001073	47.25	18.1	10.5
N+10.50	DU7 Min	138	Max Drift Y	0.001682	-0.9	15.85	10.5
N+10.50	DU8 Max	184	Max Drift X	0.000998	47.25	18.1	10.5
N+10.50	DU8 Max	138	Max Drift Y	0.001598	-0.9	15.85	10.5
N+10.50	DU8 Min	184	Max Drift X	0.001073	47.25	18.1	10.5
N+10.50	DU8 Min	138	Max Drift Y	0.001682	-0.9	15.85	10.5
N+6.12	D1 Max	167	Max Drift X	0.002007	27.05	18.1	6.12
N+6.12	D1 Max	27	Max Drift Y	0.003078	1.15	1.05	6.12
N+6.12	D1 Min	184	Max Drift X	0.00208	47.25	18.1	6.12
N+6.12	D1 Min	27	Max Drift Y	0.003114	1.15	1.05	6.12
N+6.12	D2 Max	167	Max Drift X	0.002007	27.05	18.1	6.12
N+6.12	D2 Max	27	Max Drift Y	0.003078	1.15	1.05	6.12
N+6.12	D2 Min	184	Max Drift X	0.00208	47.25	18.1	6.12
N+6.12	D2 Min	27	Max Drift Y	0.003114	1.15	1.05	6.12
N+6.12	D3 Max	167	Max Drift X	0.002007	27.05	18.1	6.12
N+6.12	D3 Max	27	Max Drift Y	0.003078	1.15	1.05	6.12
N+6.12	D3 Min	184	Max Drift X	0.00208	47.25	18.1	6.12
N+6.12	D3 Min	27	Max Drift Y	0.003114	1.15	1.05	6.12
N+6.12	D4 Max	167	Max Drift X	0.002007	27.05	18.1	6.12
N+6.12	D4 Max	27	Max Drift Y	0.003078	1.15	1.05	6.12
N+6.12	D4 Min	184	Max Drift X	0.00208	47.25	18.1	6.12
N+6.12	D4 Min	27	Max Drift Y	0.003114	1.15	1.05	6.12
N+6.12	D5 Max	167	Max Drift X	0.001861	27.05	18.1	6.12
N+6.12	D5 Max	43	Max Drift Y	0.002909	47.25	1.05	6.12
N+6.12	D5 Min	184	Max Drift X	0.001936	47.25	18.1	6.12
N+6.12	D5 Min	27	Max Drift Y	0.002877	1.15	1.05	6.12
N+6.12	D6 Max	167	Max Drift X	0.001861	27.05	18.1	6.12
N+6.12	D6 Max	43	Max Drift Y	0.002909	47.25	1.05	6.12
N+6.12	D6 Min	184	Max Drift X	0.001936	47.25	18.1	6.12
N+6.12	D6 Min	27	Max Drift Y	0.002877	1.15	1.05	6.12
N+6.12	D7 Max	167	Max Drift X	0.001861	27.05	18.1	6.12
N+6.12	D7 Max	43	Max Drift Y	0.002909	47.25	1.05	6.12
N+6.12	D7 Min	184	Max Drift X	0.001936	47.25	18.1	6.12
N+6.12	D7 Min	27	Max Drift Y	0.002877	1.15	1.05	6.12
N+6.12	D8 Max	167	Max Drift X	0.001861	27.05	18.1	6.12
N+6.12	D8 Max	43	Max Drift Y	0.002909	47.25	1.05	6.12
N+6.12	D8 Min	184	Max Drift X	0.001936	47.25	18.1	6.12
N+6.12	D8 Min	27	Max Drift Y	0.002877	1.15	1.05	6.12
N+6.12	DU1 Max	167	Max Drift X	0.001154	27.05	18.1	6.12
N+6.12	DU1 Max	27	Max Drift Y	0.001784	1.15	1.05	6.12
N+6.12	DU1 Min	184	Max Drift X	0.001222	47.25	18.1	6.12
N+6.12	DU1 Min	27	Max Drift Y	0.001819	1.15	1.05	6.12
N+6.12	DU2 Max	167	Max Drift X	0.001154	27.05	18.1	6.12
N+6.12	DU2 Max	27	Max Drift Y	0.001784	1.15	1.05	6.12
N+6.12	DU2 Min	184	Max Drift X	0.001222	47.25	18.1	6.12
N+6.12	DU2 Min	27	Max Drift Y	0.001819	1.15	1.05	6.12
N+6.12	DU3 Max	167	Max Drift X	0.001154	27.05	18.1	6.12


Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
N+6.12	DU3 Max	27	Max Drift Y	0.001784	1.15	1.05	6.12
N+6.12	DU3 Min	184	Max Drift X	0.001222	47.25	18.1	6.12
N+6.12	DU3 Min	27	Max Drift Y	0.001819	1.15	1.05	6.12
N+6.12	DU4 Max	167	Max Drift X	0.001154	27.05	18.1	6.12
N+6.12	DU4 Max	27	Max Drift Y	0.001784	1.15	1.05	6.12
N+6.12	DU4 Min	184	Max Drift X	0.001222	47.25	18.1	6.12
N+6.12	DU4 Min	27	Max Drift Y	0.001819	1.15	1.05	6.12
N+6.12	DU5 Max	167	Max Drift X	0.001097	27.05	18.1	6.12
N+6.12	DU5 Max	43	Max Drift Y	0.001767	47.25	1.05	6.12
N+6.12	DU5 Min	184	Max Drift X	0.001167	47.25	18.1	6.12
N+6.12	DU5 Min	27	Max Drift Y	0.001655	1.15	1.05	6.12
N+6.12	DU6 Max	167	Max Drift X	0.001097	27.05	18.1	6.12
N+6.12	DU6 Max	43	Max Drift Y	0.001767	47.25	1.05	6.12
N+6.12	DU6 Min	184	Max Drift X	0.001167	47.25	18.1	6.12
N+6.12	DU6 Min	27	Max Drift Y	0.001655	1.15	1.05	6.12
N+6.12	DU7 Max	167	Max Drift X	0.001097	27.05	18.1	6.12
N+6.12	DU7 Max	43	Max Drift Y	0.001767	47.25	1.05	6.12
N+6.12	DU7 Min	184	Max Drift X	0.001167	47.25	18.1	6.12
N+6.12	DU7 Min	27	Max Drift Y	0.001655	1.15	1.05	6.12
N+6.12	DU8 Max	167	Max Drift X	0.001097	27.05	18.1	6.12
N+6.12	DU8 Max	43	Max Drift Y	0.001767	47.25	1.05	6.12
N+6.12	DU8 Min	184	Max Drift X	0.001167	47.25	18.1	6.12
N+6.12	DU8 Min	27	Max Drift Y	0.001655	1.15	1.05	6.12
N+3.06	D1 Max	184	Max Drift X	0.001612	47.25	18.1	3.06
N+3.06	D1 Max	93	Max Drift Y	0.002776	1.15	8.45	3.06
N+3.06	D1 Min	167	Max Drift X	0.001668	27.05	18.1	3.06
N+3.06	D1 Min	93	Max Drift Y	0.00288	1.15	8.45	3.06
N+3.06	D2 Max	184	Max Drift X	0.001612	47.25	18.1	3.06
N+3.06	D2 Max	93	Max Drift Y	0.002776	1.15	8.45	3.06
N+3.06	D2 Min	167	Max Drift X	0.001668	27.05	18.1	3.06
N+3.06	D2 Min	93	Max Drift Y	0.00288	1.15	8.45	3.06
N+3.06	D3 Max	184	Max Drift X	0.001612	47.25	18.1	3.06
N+3.06	D3 Max	93	Max Drift Y	0.002776	1.15	8.45	3.06
N+3.06	D3 Min	167	Max Drift X	0.001668	27.05	18.1	3.06
N+3.06	D3 Min	93	Max Drift Y	0.00288	1.15	8.45	3.06
N+3.06	D4 Max	184	Max Drift X	0.001612	47.25	18.1	3.06
N+3.06	D4 Max	93	Max Drift Y	0.002776	1.15	8.45	3.06
N+3.06	D4 Min	167	Max Drift X	0.001668	27.05	18.1	3.06
N+3.06	D4 Min	93	Max Drift Y	0.00288	1.15	8.45	3.06
N+3.06	D5 Max	184	Max Drift X	0.001461	47.25	18.1	3.06
N+3.06	D5 Max	93	Max Drift Y	0.002633	1.15	8.45	3.06
N+3.06	D5 Min	167	Max Drift X	0.001517	27.05	18.1	3.06
N+3.06	D5 Min	93	Max Drift Y	0.002737	1.15	8.45	3.06
N+3.06	D6 Max	184	Max Drift X	0.001461	47.25	18.1	3.06
N+3.06	D6 Max	93	Max Drift Y	0.002633	1.15	8.45	3.06
N+3.06	D6 Min	167	Max Drift X	0.001517	27.05	18.1	3.06
N+3.06	D6 Min	93	Max Drift Y	0.002737	1.15	8.45	3.06
N+3.06	D7 Max	184	Max Drift X	0.001461	47.25	18.1	3.06
N+3.06	D7 Max	93	Max Drift Y	0.002633	1.15	8.45	3.06
N+3.06	D7 Min	167	Max Drift X	0.001517	27.05	18.1	3.06
N+3.06	D7 Min	93	Max Drift Y	0.002737	1.15	8.45	3.06
N+3.06	D8 Max	184	Max Drift X	0.001461	47.25	18.1	3.06
N+3.06	D8 Max	93	Max Drift Y	0.002633	1.15	8.45	3.06

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
N+3.06	D8 Min	167	Max Drift X	0.001517	27.05	18.1	3.06
N+3.06	D8 Min	93	Max Drift Y	0.002737	1.15	8.45	3.06
N+3.06	DU1 Max	184	Max Drift X	0.000931	47.25	18.1	3.06
N+3.06	DU1 Max	93	Max Drift Y	0.001591	1.15	8.45	3.06
N+3.06	DU1 Min	167	Max Drift X	0.000981	27.05	18.1	3.06
N+3.06	DU1 Min	93	Max Drift Y	0.001695	1.15	8.45	3.06
N+3.06	DU2 Max	184	Max Drift X	0.000931	47.25	18.1	3.06
N+3.06	DU2 Max	93	Max Drift Y	0.001591	1.15	8.45	3.06
N+3.06	DU2 Min	167	Max Drift X	0.000981	27.05	18.1	3.06
N+3.06	DU2 Min	93	Max Drift Y	0.001695	1.15	8.45	3.06
N+3.06	DU3 Max	184	Max Drift X	0.000931	47.25	18.1	3.06
N+3.06	DU3 Max	93	Max Drift Y	0.001591	1.15	8.45	3.06
N+3.06	DU3 Min	167	Max Drift X	0.000981	27.05	18.1	3.06
N+3.06	DU3 Min	93	Max Drift Y	0.001695	1.15	8.45	3.06
N+3.06	DU4 Max	184	Max Drift X	0.000931	47.25	18.1	3.06
N+3.06	DU4 Max	93	Max Drift Y	0.001591	1.15	8.45	3.06
N+3.06	DU4 Min	167	Max Drift X	0.000981	27.05	18.1	3.06
N+3.06	DU4 Min	93	Max Drift Y	0.001695	1.15	8.45	3.06
N+3.06	DU5 Max	184	Max Drift X	0.000863	47.25	18.1	3.06
N+3.06	DU5 Max	93	Max Drift Y	0.001474	1.15	8.45	3.06
N+3.06	DU5 Min	167	Max Drift X	0.000912	27.05	18.1	3.06
N+3.06	DU5 Min	93	Max Drift Y	0.001578	1.15	8.45	3.06
N+3.06	DU6 Max	184	Max Drift X	0.000863	47.25	18.1	3.06
N+3.06	DU6 Max	93	Max Drift Y	0.001474	1.15	8.45	3.06
N+3.06	DU6 Min	167	Max Drift X	0.000912	27.05	18.1	3.06
N+3.06	DU6 Min	93	Max Drift Y	0.001578	1.15	8.45	3.06
N+3.06	DU7 Max	184	Max Drift X	0.000863	47.25	18.1	3.06
N+3.06	DU7 Max	93	Max Drift Y	0.001474	1.15	8.45	3.06
N+3.06	DU7 Min	167	Max Drift X	0.000912	27.05	18.1	3.06
N+3.06	DU7 Min	93	Max Drift Y	0.001578	1.15	8.45	3.06
N+3.06	DU8 Max	184	Max Drift X	0.000863	47.25	18.1	3.06
N+3.06	DU8 Max	93	Max Drift Y	0.001474	1.15	8.45	3.06
N+3.06	DU8 Min	167	Max Drift X	0.000912	27.05	18.1	3.06
N+3.06	DU8 Min	93	Max Drift Y	0.001578	1.15	8.45	3.06
N-0.05	D1 Max	184	Max Drift X	0.000393	47.25	18.1	-0.05
N-0.05	D1 Max	140	Max Drift Y	0.00073	1.15	15.85	-0.05
N-0.05	D1 Min	184	Max Drift X	0.000396	47.25	18.1	-0.05
N-0.05	D1 Min	140	Max Drift Y	0.000731	1.15	15.85	-0.05
N-0.05	D2 Max	184	Max Drift X	0.000393	47.25	18.1	-0.05
N-0.05	D2 Max	140	Max Drift Y	0.00073	1.15	15.85	-0.05
N-0.05	D2 Min	184	Max Drift X	0.000396	47.25	18.1	-0.05
N-0.05	D2 Min	140	Max Drift Y	0.000731	1.15	15.85	-0.05
N-0.05	D3 Max	184	Max Drift X	0.000393	47.25	18.1	-0.05
N-0.05	D3 Max	140	Max Drift Y	0.00073	1.15	15.85	-0.05
N-0.05	D3 Min	184	Max Drift X	0.000396	47.25	18.1	-0.05
N-0.05	D3 Min	140	Max Drift Y	0.000731	1.15	15.85	-0.05
N-0.05	D4 Max	184	Max Drift X	0.000393	47.25	18.1	-0.05
N-0.05	D4 Max	140	Max Drift Y	0.00073	1.15	15.85	-0.05
N-0.05	D4 Min	184	Max Drift X	0.000396	47.25	18.1	-0.05
N-0.05	D4 Min	140	Max Drift Y	0.000731	1.15	15.85	-0.05
N-0.05	D5 Max	184	Max Drift X	0.000343	47.25	18.1	-0.05
N-0.05	D5 Max	3	Max Drift Y	0.000777	1.15	0	-0.05
N-0.05	D5 Min	184	Max Drift X	0.000345	47.25	18.1	-0.05

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
N-0.05	D5 Min	3	Max Drift Y	0.00077	1.15	0	-0.05
N-0.05	D6 Max	184	Max Drift X	0.000343	47.25	18.1	-0.05
N-0.05	D6 Max	3	Max Drift Y	0.000777	1.15	0	-0.05
N-0.05	D6 Min	184	Max Drift X	0.000345	47.25	18.1	-0.05
N-0.05	D6 Min	3	Max Drift Y	0.00077	1.15	0	-0.05
N-0.05	D7 Max	184	Max Drift X	0.000343	47.25	18.1	-0.05
N-0.05	D7 Max	3	Max Drift Y	0.000777	1.15	0	-0.05
N-0.05	D7 Min	184	Max Drift X	0.000345	47.25	18.1	-0.05
N-0.05	D7 Min	3	Max Drift Y	0.00077	1.15	0	-0.05
N-0.05	D8 Max	184	Max Drift X	0.000343	47.25	18.1	-0.05
N-0.05	D8 Max	3	Max Drift Y	0.000777	1.15	0	-0.05
N-0.05	D8 Min	184	Max Drift X	0.000345	47.25	18.1	-0.05
N-0.05	D8 Min	3	Max Drift Y	0.00077	1.15	0	-0.05
N-0.05	DU1 Max	184	Max Drift X	0.000225	47.25	18.1	-0.05
N-0.05	DU1 Max	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU1 Min	184	Max Drift X	0.000228	47.25	18.1	-0.05
N-0.05	DU1 Min	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU2 Max	184	Max Drift X	0.000225	47.25	18.1	-0.05
N-0.05	DU2 Max	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU2 Min	184	Max Drift X	0.000228	47.25	18.1	-0.05
N-0.05	DU2 Min	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU3 Max	184	Max Drift X	0.000225	47.25	18.1	-0.05
N-0.05	DU3 Max	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU3 Min	184	Max Drift X	0.000228	47.25	18.1	-0.05
N-0.05	DU3 Min	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU4 Max	184	Max Drift X	0.000225	47.25	18.1	-0.05
N-0.05	DU4 Max	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU4 Min	184	Max Drift X	0.000228	47.25	18.1	-0.05
N-0.05	DU4 Min	140	Max Drift Y	0.000424	1.15	15.85	-0.05
N-0.05	DU5 Max	184	Max Drift X	0.000197	47.25	18.1	-0.05
N-0.05	DU5 Max	3	Max Drift Y	0.000439	1.15	0	-0.05
N-0.05	DU5 Min	184	Max Drift X	0.000199	47.25	18.1	-0.05
N-0.05	DU5 Min	3	Max Drift Y	0.000432	1.15	0	-0.05
N-0.05	DU6 Max	184	Max Drift X	0.000197	47.25	18.1	-0.05
N-0.05	DU6 Max	3	Max Drift Y	0.000439	1.15	0	-0.05
N-0.05	DU6 Min	184	Max Drift X	0.000199	47.25	18.1	-0.05
N-0.05	DU6 Min	3	Max Drift Y	0.000432	1.15	0	-0.05
N-0.05	DU7 Max	184	Max Drift X	0.000197	47.25	18.1	-0.05
N-0.05	DU7 Max	3	Max Drift Y	0.000439	1.15	0	-0.05
N-0.05	DU7 Min	184	Max Drift X	0.000199	47.25	18.1	-0.05
N-0.05	DU7 Min	3	Max Drift Y	0.000432	1.15	0	-0.05
N-0.05	DU8 Max	184	Max Drift X	0.000197	47.25	18.1	-0.05
N-0.05	DU8 Max	3	Max Drift Y	0.000439	1.15	0	-0.05
N-0.05	DU8 Min	184	Max Drift X	0.000199	47.25	18.1	-0.05
N-0.05	DU8 Min	3	Max Drift Y	0.000432	1.15	0	-0.05

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 2
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 5. DISEÑO DE ELEMENTOS ESTRUCTURALES


	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 2 DE 2
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 5.1. DISEÑO DE PANTALLAS

Shear Wall Pier Summary - ACI 318-08

Story	Pier Label	Station	Design Type	Edge Member Left cm	Edge Member Right cm	As Left cm ²	As Right cm ²	Shear Rebar cm ² /cm	Boundary Zone Left cm	Boundary Zone Right cm	Warnings	Errors
N+10.50	PA	Top	Simplified	60	60	128	0	0.4059		46	No Message	No Message
N+10.50	PA	Bottom	Simplified	60	60	0	146.49	0.4209	46		No Message	No Message
N+6.12	PA	Top	Simplified	60	60	31.49	0	0.15		46	No Message	No Message
N+6.12	PA	Bottom	Simplified	60	60	0	1.38	0.15	46		No Message	No Message
N+3.06	PA	Top	Simplified	60	60	8.82	10.43	0.15	46	46	No Message	No Message
N+3.06	PA	Bottom	Simplified	60	60	25.68	35.37	0.15	46	46	No Message	No Message
N-0.05	PA	Top	Simplified	60	60	20.89	22.85	0.15	46	46	No Message	No Message
N-0.05	PA	Bottom	Simplified	60	60	6.59	5.42	0.15	46	46	No Message	No Message
N+10.50	PA1	Top	Simplified	60	60	0	47.09	0.15	46		No Message	No Message
N+10.50	PA1	Bottom	Simplified	60	60	46.42	0	0.15		46	No Message	No Message
N+6.12	PA1	Top	Simplified	60	60	4.95	6.59	0.15			No Message	No Message
N+6.12	PA1	Bottom	Simplified	60	60	0.15	8.27	0.15	46		No Message	No Message
N+3.06	PA1	Top	Simplified	60	60	4.69	0	0.15		46	No Message	No Message
N+3.06	PA1	Bottom	Simplified	60	60	2.99	14.06	0.15	46	46	No Message	No Message
N-0.05	PA1	Top	Simplified	60	60	5.92	1.98	0.15	46	46	No Message	No Message
N-0.05	PA1	Bottom	Simplified	60	60	1.86	3.51	0.15	46	46	No Message	No Message
N+10.50	PB	Top	Simplified	60	60	0	125.41	0.4034	46		No Message	No Message
N+10.50	PB	Bottom	Simplified	60	60	152.46	0	0.4244		46	No Message	No Message
N+6.12	PB	Top	Simplified	60	60	0	41.45	0.15	46		No Message	No Message
N+6.12	PB	Bottom	Simplified	60	60	11.71	8.62	0.15	46	46	No Message	No Message
N+3.06	PB	Top	Simplified	60	60	23.05	40.35	0.15	46	46	No Message	No Message
N+3.06	PB	Bottom	Simplified	60	60	61.44	31.94	0.15	46	46	No Message	No Message
N-0.05	PB	Top	Simplified	60	60	44.92	57.54	0.15	46	46	No Message	No Message
N-0.05	PB	Bottom	Simplified	60	60	37.02	27.81	0.15	46	46	No Message	No Message
N+10.50	PB1	Top	Simplified	60	60	4.6	47.26	0.15	46		No Message	No Message
N+10.50	PB1	Bottom	Simplified	60	60	53.54	0	0.15		46	No Message	No Message
N+6.12	PB1	Top	Simplified	60	60	25.8	29.92	0.15	46	46	No Message	No Message
N+6.12	PB1	Bottom	Simplified	60	60	22.57	37.76	0.15	46	46	No Message	No Message
N+3.06	PB1	Top	Simplified	60	60	27.83	20.59	0.15	46	46	No Message	No Message
N+3.06	PB1	Bottom	Simplified	60	60	79.28	71.43	0.15	46	46	No Message	No Message
N-0.05	PB1	Top	Simplified	60	60	19.25	7.81	0.15		46	No Message	No Message
N-0.05	PB1	Bottom	Simplified	60	60	2.18	9.08	0.15			No Message	No Message
N+10.50	PC	Top	Simplified	60	60	110.65	0	0.3125		46	No Message	No Message
N+10.50	PC	Bottom	Simplified	60	60	0	113.98	0.3142	46		No Message	No Message
N+6.12	PC	Top	Simplified	60	60	39.2	1.6	0.15		46	No Message	No Message
N+6.12	PC	Bottom	Simplified	60	60	7.49	25.03	0.15	46		No Message	No Message
N+3.06	PC	Top	Simplified	60	60	47.38	40.3	0.15	46	46	No Message	No Message
N+3.06	PC	Bottom	Simplified	60	60	49.32	58.95	0.15	46	46	No Message	No Message
N-0.05	PC	Top	Simplified	60	60	43.65	33.78	0.15	46	46	No Message	No Message
N-0.05	PC	Bottom	Simplified	60	60	24.88	32.38	0.15	46	46	No Message	No Message
N+10.50	PC1	Top	Simplified	60	60	35.66	0	0.15		46	No Message	No Message
N+10.50	PC1	Bottom	Simplified	60	60	1.17	32.43	0.15	46		No Message	No Message
N+6.12	PC1	Top	Simplified	60	60	30.07	19.56	0.15		46	No Message	No Message
N+6.12	PC1	Bottom	Simplified	60	60	22.98	30.24	0.15	46	46	No Message	No Message
N+3.06	PC1	Top	Simplified	60	60	22.8	25.23	0.15	46	46	No Message	No Message
N+3.06	PC1	Bottom	Simplified	60	60	38.36	35.27	0.15	46	46	No Message	No Message
N-0.05	PC1	Top	Simplified	60	60	20.19	14.29	0.15		46	No Message	No Message
N-0.05	PC1	Bottom	Simplified	60	60	20.83	23.92	0.15	46	46	No Message	No Message
N+10.50	PD	Top	Simplified	60	60	0	103.41	0.3056	46		No Message	No Message
N+10.50	PD	Bottom	Simplified	60	60	124.33	0	0.3328		46	No Message	No Message
N+6.12	PD	Top	Simplified	60	60	0	28.94	0.15	46		No Message	No Message

Story	Pier Label	Station	Design Type	Edge Member Left cm	Edge Member Right cm	As Left cm ²	As Right cm ²	Shear Rebar cm ² /cm	Boundary Zone Left cm	Boundary Zone Right cm	Warnings	Errors
N+6.12	PD	Bottom	Simplified	60	60	5.94	2.14	0.15		46	No Message	No Message
N+3.06	PD	Top	Simplified	60	60	19.27	40.45	0.15	46		No Message	No Message
N+3.06	PD	Bottom	Simplified	60	60	50.52	15.16	0.15		46	No Message	No Message
N-0.05	PD	Top	Simplified	60	60	31.66	32.75	0.15	46	46	No Message	No Message
N-0.05	PD	Bottom	Simplified	60	60	21.8	21.02	0.15	46	46	No Message	No Message
N+10.50	PD1	Top	Simplified	60	60	41	12.43	0.15		46	No Message	No Message
N+10.50	PD1	Bottom	Simplified	60	60	0	44.09	0.15	46		No Message	No Message
N+6.12	PD1	Top	Simplified	60	60	20.38	20.52	0.15	46	46	No Message	No Message
N+6.12	PD1	Bottom	Simplified	60	60	33.63	10.22	0.15		46	No Message	No Message
N+3.06	PD1	Top	Simplified	60	60	7.17	9.92	0.15	46		No Message	No Message
N+3.06	PD1	Bottom	Simplified	60	60	63.72	55.88	0.15	46	46	No Message	No Message
N-0.05	PD1	Top	Simplified	60	60	7.65	9.19	0.15			No Message	No Message
N-0.05	PD1	Bottom	Simplified	60	60	3.5	0.77	0.15			No Message	No Message
N+10.50	PE1	Top	Simplified	25	25	5.2	10.34	0.0625			No Message	No Message
N+10.50	PE1	Bottom	Simplified	25	25	8.69	6.82	0.0625			No Message	No Message
N+6.12	PE1	Top	Simplified	25	25	12.27	16.43	0.0625	12.5		No Message	No Message
N+6.12	PE1	Bottom	Simplified	25	25	17.94	13.09	0.0625		12.5	No Message	No Message
N+3.06	PE1	Top	Simplified	25	37.5	26.5	22.59	0.0625		18.75	No Message	No Message
N+3.06	PE1	Bottom	Simplified	37.5	37.5	26.01	28.37	0.0625	18.75	18.75	No Message	No Message
N-0.05	PE1	Top	Simplified	37.5	37.5	32.28	33.78	0.0625	18.75	18.75	No Message	No Message
N-0.05	PE1	Bottom	Simplified	37.5	37.5	29.44	29.12	0.0625	18.75	18.75	No Message	No Message
N+10.50	PE2	Top	Simplified	25	25	11.04	14.33	0.0625			No Message	No Message
N+10.50	PE2	Bottom	Simplified	25	25	14.77	9.06	0.0625			No Message	No Message
N+6.12	PE2	Top	Simplified	25	25	19.5	22.06	0.0975	12.5		No Message	No Message
N+6.12	PE2	Bottom	Simplified	25	37.5	26.13	22.68	0.0975	12.5	18.75	No Message	No Message
N+3.06	PE2	Top	Simplified	37.5	37.5	27.71	29.15	0.1123	18.75	18.75	No Message	No Message
N+3.06	PE2	Bottom	Simplified	50	50	43.55	41.64	0.1123	25	25	No Message	No Message
N-0.05	PE2	Top	Simplified	37.5	37.5	25.7	25.04	0.0625	18.75	18.75	No Message	No Message
N-0.05	PE2	Bottom	Simplified	50	50	36.39	35.09	0.0625	25	25	No Message	No Message
N+10.50	PE3	Top	Simplified	25	25	16.81	8.91	0.0625			No Message	No Message
N+10.50	PE3	Bottom	Simplified	25	25	10.92	16.01	0.0625			No Message	No Message
N+6.12	PE3	Top	Simplified	25	25	16.33	16.32	0.0917			No Message	No Message
N+6.12	PE3	Bottom	Simplified	37.5	37.5	26.46	23.68	0.0917	18.75	18.75	No Message	No Message
N+3.06	PE3	Top	Simplified	37.5	37.5	24.49	35.87	0.1102		18.75	No Message	No Message
N+3.06	PE3	Bottom	Simplified	50	50	35.86	35.96	0.1102	25	25	No Message	No Message
N-0.05	PE3	Top	Simplified	37.5	50	33.89	22.76	0.0625		25	No Message	No Message
N-0.05	PE3	Bottom	Simplified	50	50	33.89	23.86	0.0625	25	25	No Message	No Message
N+10.50	PE4	Top	Simplified	25	37.5	26.08	11.72	0.1149		18.75	No Message	No Message
N+10.50	PE4	Bottom	Simplified	37.5	25	0	21.6	0.1149	18.75		No Message	No Message
N+6.12	PE4	Top	Simplified	25	25	9.79	21.87	0.0625		12.5	No Message	No Message
N+6.12	PE4	Bottom	Simplified	25	25	2.96	21.87	0.0625	12.5	12.5	No Message	No Message
N+3.06	PE4	Top	Simplified	25	25	22.72	20.67	0.0625	12.5	12.5	No Message	No Message
N+3.06	PE4	Bottom	Simplified	37.5	37.5	23.99	23.08	0.0625	18.75	18.75	No Message	No Message
N-0.05	PE4	Top	Simplified	37.5	37.5	21.32	19.5	0.0625	18.75	18.75	No Message	No Message
N-0.05	PE4	Bottom	Simplified	37.5	37.5	21.99	22.1	0.0625	18.75	18.75	No Message	No Message

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 1
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 5.2. DISEÑO DE COLUMNAS

Concrete Column Summary - ACI 318-08 (Part 1 of 2)

Story	Label	Unique Name	Station cm	Design Section	Design/Check	Status	PMM Ratio	PMM Combo	As,min cm ²	As cm ²
N+10.50	C1	187	0	C60X60	Design	No Message		C18	36	36
N+10.50	C1	187	189	C60X60	Design	No Message		C18	36	36
N+10.50	C1	187	378	C60X60	Design	No Message		C18	36	36
N+10.50	C2	190	0	C60X60	Design	No Message		C18	36	36
N+10.50	C2	190	189	C60X60	Design	No Message		C18	36	36
N+10.50	C2	190	378	C60X60	Design	No Message		C18	36	36
N+10.50	C3	193	0	C60X60	Design	No Message		C18	36	36
N+10.50	C3	193	189	C60X60	Design	No Message		C18	36	36
N+10.50	C3	193	378	C60X60	Design	No Message		C18	36	36
N+10.50	C4	194	0	C60X60	Design	No Message		C18	36	36
N+10.50	C4	194	189	C60X60	Design	No Message		C18	36	36
N+10.50	C4	194	378	C60X60	Design	No Message		C18	36	36
N+10.50	C6	186	0	C60X60	Design	No Message		C18	36	36
N+10.50	C6	186	189	C60X60	Design	No Message		C18	36	36
N+10.50	C6	186	378	C60X60	Design	No Message		C18	36	36
N+10.50	C7	189	0	C60X60	Design	No Message		C18	36	36
N+10.50	C7	189	189	C60X60	Design	No Message		C18	36	36
N+10.50	C7	189	378	C60X60	Design	See Warnings		C18	36	36
N+10.50	C8	192	0	C60X60	Design	No Message		C18	36	36
N+10.50	C8	192	189	C60X60	Design	No Message		C18	36	36
N+10.50	C8	192	378	C60X60	Design	See Warnings		C18	36	36
N+10.50	C9	195	0	C60X60	Design	No Message		C18	36	36
N+10.50	C9	195	189	C60X60	Design	No Message		C18	36	36
N+10.50	C9	195	378	C60X60	Design	No Message		C18	36	36
N+10.50	C14	185	0	C60X60	Design	No Message		C18	36	36
N+10.50	C14	185	189	C60X60	Design	No Message		C18	36	36
N+10.50	C14	185	378	C60X60	Design	No Message		C18	36	36
N+10.50	C15	188	0	C60X60	Design	No Message		C18	36	36
N+10.50	C15	188	189	C60X60	Design	No Message		C18	36	36
N+10.50	C15	188	378	C60X60	Design	No Message		C18	36	36
N+10.50	C16	191	0	C60X60	Design	No Message		C18	36	36
N+10.50	C16	191	189	C60X60	Design	No Message		C18	36	36
N+10.50	C16	191	378	C60X60	Design	See Warnings		C18	36	36
N+10.50	C17	196	0	C60X60	Design	No Message		C18	36	36
N+10.50	C17	196	189	C60X60	Design	No Message		C18	36	36
N+10.50	C17	196	378	C60X60	Design	See Warnings		C18	36	36
N+6.12	C1	131	0	C60X60	Design	No Message		C18	36	36
N+6.12	C1	131	123	C60X60	Design	No Message		C18	36	36
N+6.12	C1	131	246	C60X60	Design	No Message		C18	36	36
N+6.12	C2	134	0	C60X60	Design	No Message		C18	36	36
N+6.12	C2	134	123	C60X60	Design	No Message		C18	36	36
N+6.12	C2	134	246	C60X60	Design	No Message		C18	36	36
N+6.12	C3	137	0	C60X60	Design	No Message		C18	36	36
N+6.12	C3	137	123	C60X60	Design	No Message		C18	36	36
N+6.12	C3	137	246	C60X60	Design	No Message		C18	36	36
N+6.12	C4	138	0	C60X60	Design	No Message		C18	36	36
N+6.12	C4	138	123	C60X60	Design	No Message		C18	36	36
N+6.12	C4	138	246	C60X60	Design	No Message		C18	36	36
N+6.12	C6	130	0	C60X60	Design	No Message		C18	36	36
N+6.12	C6	130	123	C60X60	Design	No Message		C18	36	36
N+6.12	C6	130	246	C60X60	Design	No Message		C18	36	36
N+6.12	C7	133	0	C60X60	Design	No Message		C18	36	36
N+6.12	C7	133	123	C60X60	Design	No Message		C18	36	36

Story	Label	Unique Name	Station cm	Design Section	Design/Check	Status	PMM Ratio	PMM Combo	As,min cm ²	As cm ²
N+6.12	C7	133	246	C60X60	Design	No Message		C18	36	36
N+6.12	C8	136	0	C60X60	Design	No Message		C18	36	36
N+6.12	C8	136	123	C60X60	Design	No Message		C18	36	36
N+6.12	C8	136	246	C60X60	Design	No Message		C18	36	36
N+6.12	C9	139	0	C60X60	Design	No Message		C18	36	36
N+6.12	C9	139	123	C60X60	Design	No Message		C18	36	36
N+6.12	C9	139	246	C60X60	Design	See Warnings		C18	36	36
N+6.12	C14	129	0	C60X60	Design	No Message		C18	36	36
N+6.12	C14	129	123	C60X60	Design	No Message		C18	36	36
N+6.12	C14	129	246	C60X60	Design	No Message		C18	36	36
N+6.12	C15	132	0	C60X60	Design	No Message		C18	36	36
N+6.12	C15	132	123	C60X60	Design	No Message		C18	36	36
N+6.12	C15	132	246	C60X60	Design	No Message		C18	36	36
N+6.12	C16	135	0	C60X60	Design	No Message		C18	36	36
N+6.12	C16	135	123	C60X60	Design	No Message		C18	36	36
N+6.12	C16	135	246	C60X60	Design	No Message		C18	36	36
N+6.12	C17	140	0	C60X60	Design	No Message		C18	36	36
N+6.12	C17	140	123	C60X60	Design	No Message		C18	36	36
N+6.12	C17	140	246	C60X60	Design	No Message		C18	36	36
N+3.06	C1	73	0	C60X60	Design	No Message		C18	36	36
N+3.06	C1	73	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C1	73	251	C60X60	Design	No Message		C18	36	36
N+3.06	C2	76	0	C60X60	Design	No Message		C18	36	36
N+3.06	C2	76	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C2	76	251	C60X60	Design	No Message		C18	36	36
N+3.06	C3	79	0	C60X60	Design	No Message		C18	36	36
N+3.06	C3	79	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C3	79	251	C60X60	Design	No Message		C18	36	36
N+3.06	C4	80	0	C60X60	Design	No Message		C18	36	36
N+3.06	C4	80	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C4	80	251	C60X60	Design	No Message		C18	36	36
N+3.06	C6	72	0	C60X60	Design	No Message		C18	36	36
N+3.06	C6	72	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C6	72	251	C60X60	Design	No Message		C18	36	36
N+3.06	C7	75	0	C60X60	Design	No Message		C18	36	36
N+3.06	C7	75	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C7	75	251	C60X60	Design	No Message		C18	36	36
N+3.06	C8	78	0	C60X60	Design	No Message		C18	36	36
N+3.06	C8	78	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C8	78	251	C60X60	Design	No Message		C18	36	36
N+3.06	C9	81	0	C60X60	Design	No Message		C18	36	36
N+3.06	C9	81	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C9	81	251	C60X60	Design	No Message		C18	36	36
N+3.06	C14	71	0	C60X60	Design	No Message		C18	36	36
N+3.06	C14	71	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C14	71	251	C60X60	Design	No Message		C18	36	36
N+3.06	C15	74	0	C60X60	Design	No Message		C18	36	36
N+3.06	C15	74	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C15	74	251	C60X60	Design	No Message		C18	36	36
N+3.06	C16	77	0	C60X60	Design	No Message		C18	36	36
N+3.06	C16	77	125.5	C60X60	Design	No Message		C18	36	36
N+3.06	C16	77	251	C60X60	Design	No Message		C18	36	36
N+3.06	C17	82	0	C60X60	Design	No Message		C18	36	36
N+3.06	C17	82	125.5	C60X60	Design	No Message		C18	36	36

Story	Label	Unique Name	Station cm	Design Section	Design/Check	Status	PMM Ratio	PMM Combo	As,min cm ²	As cm ²
N+3.06	C17	82	251	C60X60	Design	No Message		C18	36	36
N-0.05	C1	1	0	C60X60	Design	No Message		C18	36	36
N-0.05	C1	1	128	C60X60	Design	No Message		C18	36	36
N-0.05	C1	1	256	C60X60	Design	No Message		C18	36	36
N-0.05	C2	4	0	C60X60	Design	No Message		C18	36	36
N-0.05	C2	4	128	C60X60	Design	No Message		C18	36	36
N-0.05	C2	4	256	C60X60	Design	No Message		C18	36	36
N-0.05	C3	7	0	C60X60	Design	No Message		C18	36	36
N-0.05	C3	7	128	C60X60	Design	No Message		C18	36	36
N-0.05	C3	7	256	C60X60	Design	No Message		C18	36	36
N-0.05	C4	8	0	C60X60	Design	No Message		C18	36	36
N-0.05	C4	8	128	C60X60	Design	No Message		C18	36	36
N-0.05	C4	8	256	C60X60	Design	See Warnings		C18	36	36
N-0.05	C5	12	0	C60X60	Design	No Message		C18	36	36
N-0.05	C5	12	128	C60X60	Design	No Message		C18	36	36
N-0.05	C5	12	256	C60X60	Design	See Warnings		C18	36	36
N-0.05	C6-1	244	0	C60X60	Design	No Message		C18	36	36
N-0.05	C6-1	244	20	C60X60	Design	No Message		C18	36	36
N-0.05	C6-1	244	40	C60X60	Design	No Message		C18	36	36
N-0.05	C6-2	243	0	C60X60	Design	No Message		C18	36	36
N-0.05	C6-2	243	108	C60X60	Design	No Message		C18	36	36
N-0.05	C6-2	243	216	C60X60	Design	No Message		C18	36	36
N-0.05	C7	3	0	C60X60	Design	No Message		C18	36	36
N-0.05	C7	3	128	C60X60	Design	No Message		C18	36	36
N-0.05	C7	3	256	C60X60	Design	No Message		C18	36	36
N-0.05	C8	6	0	C60X60	Design	No Message		C18	36	36
N-0.05	C8	6	128	C60X60	Design	No Message		C18	36	36
N-0.05	C8	6	256	C60X60	Design	No Message		C18	36	36
N-0.05	C9	9	0	C60X60	Design	No Message		C18	36	36
N-0.05	C9	9	128	C60X60	Design	No Message		C18	36	36
N-0.05	C9	9	256	C60X60	Design	No Message		C18	36	36
N-0.05	C10	11	0	C60X60	Design	No Message		C18	36	36
N-0.05	C10	11	128	C60X60	Design	No Message		C18	36	36
N-0.05	C10	11	256	C60X60	Design	See Warnings		C18	36	36
N-0.05	C11	13	0	C60X60	Design	No Message		C18	36	36
N-0.05	C11	13	128	C60X60	Design	No Message		C18	36	36
N-0.05	C11	13	256	C60X60	Design	See Warnings		C18	36	36
N-0.05	C12	15	0	C60X60	Design	No Message		C18	36	36
N-0.05	C12	15	128	C60X60	Design	No Message		C18	36	36
N-0.05	C12	15	256	C60X60	Design	See Warnings		C2	36	56.89
N-0.05	C14-1	242	0	C60X60	Design	No Message		C18	36	36
N-0.05	C14-1	242	20	C60X60	Design	No Message		C18	36	36
N-0.05	C14-1	242	40	C60X60	Design	No Message		C18	36	36
N-0.05	C14-2	241	0	C60X60	Design	No Message		C18	36	36
N-0.05	C14-2	241	108	C60X60	Design	No Message		C18	36	36
N-0.05	C14-2	241	216	C60X60	Design	No Message		C18	36	36
N-0.05	C15	2	0	C60X60	Design	No Message		C18	36	36
N-0.05	C15	2	128	C60X60	Design	No Message		C18	36	36
N-0.05	C15	2	256	C60X60	Design	No Message		C18	36	36
N-0.05	C16	5	0	C60X60	Design	No Message		C18	36	36
N-0.05	C16	5	128	C60X60	Design	No Message		C18	36	36
N-0.05	C16	5	256	C60X60	Design	No Message		C18	36	36
N-0.05	C17	10	0	C60X60	Design	No Message		C18	36	36
N-0.05	C17	10	128	C60X60	Design	No Message		C18	36	36

Story	Label	Unique Name	Station cm	Design Section	Design/Check	Status	PMM Ratio	PMM Combo	As,min cm ²	As cm ²
N-0.05	C17	10	256	C60X60	Design	No Message		C18	36	36
N-0.05	C19	14	0	C60X60	Design	No Message		C18	36	36
N-0.05	C19	14	128	C60X60	Design	No Message		C18	36	36
N-0.05	C19	14	256	C60X60	Design	See Warnings		C18	36	36


Concrete Column Summary - ACI 318-08 (Part 2 of 2)

Story	Label	Unique Name	Station cm	Mid Bar As cm ²	Corner Bar As cm ²	V Major Combo	At V Major cm ² /cm	V Minor Combo	At V Minor cm ² /cm	Warnings	Errors
N+10.50	C1	187	0	4.5		VNC16	0.0801	VNC16	0.0872	No Message	No Message
N+10.50	C1	187	189	4.5		VNC16	0.0801	VNC16	0.0872	No Message	No Message
N+10.50	C1	187	378	4.5		VNC16	0.0801	VNC16	0.0872	No Message	No Message
N+10.50	C2	190	0	4.5		VNC16	0.0796	VNC16	0.0729	No Message	No Message
N+10.50	C2	190	189	4.5		VNC16	0.0796	VNC16	0.0729	No Message	No Message
N+10.50	C2	190	378	4.5		VNC16	0.0796	VNC16	0.0729	No Message	No Message
N+10.50	C3	193	0	4.5		VNC16	0.0874	VNC16	0.0734	No Message	No Message
N+10.50	C3	193	189	4.5		VNC16	0.0874	VNC16	0.0734	No Message	No Message
N+10.50	C3	193	378	4.5		VNC16	0.0874	VNC16	0.0734	No Message	No Message
N+10.50	C4	194	0	4.5		VNC16	0.0681	VNC16	0.0502	No Message	No Message
N+10.50	C4	194	189	4.5		VNC16	0.0681	VNC16	0.0502	No Message	No Message
N+10.50	C4	194	378	4.5		VNC16	0.0681	VNC16	0.0502	No Message	No Message
N+10.50	C6	186	0	4.5		VNC16	0.1065	VNC2	0.1209	No Message	No Message
N+10.50	C6	186	189	4.5		VNC16	0.1065	VNC2	0.1209	No Message	No Message
N+10.50	C6	186	378	4.5		VNC16	0.1065	VNC2	0.1209	No Message	No Message
N+10.50	C7	189	0	4.5		VNC16	0.0804	VNC16	0.1388	No Message	No Message
N+10.50	C7	189	189	4.5		VNC16	0.0804	VNC16	0.1388	No Message	No Message
N+10.50	C7	189	378	4.5		VNC16	0.0804	VNC16	0.1388	No Message	No Message
N+10.50	C8	192	0	4.5		VNC16	0.1481	VNC16	0.1082	No Message	No Message
N+10.50	C8	192	189	4.5		VNC16	0.1481	VNC16	0.1082	No Message	No Message
N+10.50	C8	192	378	4.5		VNC16	0.1481	VNC16	0.1082	No Message	No Message
N+10.50	C9	195	0	5.95		VNC16	0.1072	VNC6	0.1176	No Message	No Message
N+10.50	C9	195	189	4.5		VNC16	0.1072	VNC6	0.1176	No Message	No Message
N+10.50	C9	195	378	5.72		VNC16	0.1072	VNC6	0.1176	No Message	No Message
N+10.50	C14	185	0	4.5		VNC16	0.0886	VNC2	0.0826	No Message	No Message
N+10.50	C14	185	189	4.5		VNC16	0.0886	VNC2	0.0826	No Message	No Message
N+10.50	C14	185	378	4.5		VNC16	0.0886	VNC2	0.0826	No Message	No Message
N+10.50	C15	188	0	4.5		VNC2	0.0886	VNC2	0.086	No Message	No Message
N+10.50	C15	188	189	4.5		VNC2	0.0886	VNC2	0.086	No Message	No Message
N+10.50	C15	188	378	4.98		VNC2	0.0886	VNC2	0.086	No Message	No Message
N+10.50	C16	191	0	4.5		VNC16	0.1395	VNC16	0.068	No Message	No Message
N+10.50	C16	191	189	4.5		VNC16	0.1395	VNC16	0.068	No Message	No Message
N+10.50	C16	191	378	4.5		VNC16	0.1395	VNC16	0.068	No Message	No Message
N+10.50	C17	196	0	4.5		VNC16	0.1486	VNC8	0.0503	No Message	No Message
N+10.50	C17	196	189	4.5		VNC16	0.1486	VNC8	0.0503	No Message	No Message
N+10.50	C17	196	378	4.5		VNC16	0.1486	VNC8	0.0503	No Message	No Message
N+6.12	C1	131	0	4.5		VNC16	0.0569	VNC10	0.0956	No Message	No Message
N+6.12	C1	131	123	4.5		VNC16	0.0569	VNC10	0.0956	No Message	No Message
N+6.12	C1	131	246	4.5		VNC16	0.0569	VNC4	0.1012	No Message	No Message
N+6.12	C2	134	0	4.5		VNC16	0.0964	VNC12	0.07	No Message	No Message
N+6.12	C2	134	123	4.5		VNC16	0.0964	VNC12	0.07	No Message	No Message
N+6.12	C2	134	246	4.5		VNC16	0.0964	VNC12	0.07	No Message	No Message
N+6.12	C3	137	0	4.5		VNC16	0.1111	VNC16	0.0592	No Message	No Message
N+6.12	C3	137	123	4.5		VNC16	0.1111	VNC16	0.0592	No Message	No Message
N+6.12	C3	137	246	4.5		VNC16	0.1111	VNC16	0.0592	No Message	No Message
N+6.12	C4	138	0	7.67		VNC2	0.1005	VNC6	0.0837	No Message	No Message
N+6.12	C4	138	123	4.98		VNC2	0.1005	VNC6	0.0837	No Message	No Message
N+6.12	C4	138	246	6.4		VNC2	0.1005	VNC6	0.0837	No Message	No Message
N+6.12	C6	130	0	4.66		VNC12	0.1116	VNC12	0.1695	No Message	No Message
N+6.12	C6	130	123	4.5		VNC12	0.1116	VNC12	0.1695	No Message	No Message
N+6.12	C6	130	246	4.5		VNC16	0.1116	VNC12	0.1695	No Message	No Message
N+6.12	C7	133	0	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message

Story	Label	Unique Name	Station cm	Mid Bar As cm ²	Corner Bar As cm ²	V Major Combo	At V Major cm ² /cm	V Minor Combo	At V Minor cm ² /cm	Warnings	Errors
N+6.12	C7	133	123	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+6.12	C7	133	246	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+6.12	C8	136	0	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+6.12	C8	136	123	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+6.12	C8	136	246	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+6.12	C9	139	0	7.85		VNC16	0.1549	VNC14	0.1715	No Message	No Message
N+6.12	C9	139	123	4.5		VNC16	0.1549	VNC14	0.1715	No Message	No Message
N+6.12	C9	139	246	4.5		VNC16	0.1549	VNC14	0.1715	No Message	No Message
N+6.12	C14	129	0	4.5		VNC10	0.0924	VNC10	0.1111	No Message	No Message
N+6.12	C14	129	123	4.5		VNC10	0.0924	VNC10	0.1111	No Message	No Message
N+6.12	C14	129	246	4.5		VNC10	0.0924	VNC10	0.1111	No Message	No Message
N+6.12	C15	132	0	4.5		VNC10	0.144	VNC10	0.0719	No Message	No Message
N+6.12	C15	132	123	4.5		VNC10	0.144	VNC10	0.0719	No Message	No Message
N+6.12	C15	132	246	4.5		VNC10	0.144	VNC10	0.0719	No Message	No Message
N+6.12	C16	135	0	4.5		VNC10	0.1218	VNC16	0.0971	No Message	No Message
N+6.12	C16	135	123	4.5		VNC10	0.1218	VNC14	0.1076	No Message	No Message
N+6.12	C16	135	246	4.5		VNC10	0.1218	VNC14	0.1076	No Message	No Message
N+6.12	C17	140	0	5.49		VNC10	0.161	VNC16	0.0699	No Message	No Message
N+6.12	C17	140	123	4.5		VNC10	0.161	VNC16	0.0699	No Message	No Message
N+6.12	C17	140	246	4.5		VNC10	0.161	VNC16	0.0699	No Message	No Message
N+3.06	C1	73	0	12.55		VNC12	0.0866	VNC12	0.1917	No Message	No Message
N+3.06	C1	73	125.5	4.5		VNC12	0.0866	VNC12	0.1917	No Message	No Message
N+3.06	C1	73	251	4.5		VNC12	0.0866	VNC12	0.1917	No Message	No Message
N+3.06	C2	76	0	7.23		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C2	76	125.5	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C2	76	251	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C3	79	0	5.78		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C3	79	125.5	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C3	79	251	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C4	80	0	12.86		VNC16	0.098	VNC6	0.0961	No Message	No Message
N+3.06	C4	80	125.5	10.56		VNC16	0.098	VNC6	0.0961	No Message	No Message
N+3.06	C4	80	251	10.93		VNC16	0.098	VNC6	0.0961	No Message	No Message
N+3.06	C6	72	0	14.33		VNC16	0.0502	VNC12	0.0562	No Message	No Message
N+3.06	C6	72	125.5	4.5		VNC16	0.0502	VNC12	0.0565	No Message	No Message
N+3.06	C6	72	251	4.5		VNC16	0.0502	VNC12	0.0567	No Message	No Message
N+3.06	C7	75	0	5.44		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C7	75	125.5	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C7	75	251	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C8	78	0	6.66		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C8	78	125.5	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C8	78	251	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C9	81	0	8.01		VNC16	0.1121	VNC16	0.1401	No Message	No Message
N+3.06	C9	81	125.5	4.5		VNC16	0.1121	VNC16	0.1401	No Message	No Message
N+3.06	C9	81	251	4.5		VNC16	0.1121	VNC16	0.1401	No Message	No Message
N+3.06	C14	71	0	5.52		VNC12	0.1004	VNC12	0.099	No Message	No Message
N+3.06	C14	71	125.5	4.5		VNC12	0.1004	VNC12	0.099	No Message	No Message
N+3.06	C14	71	251	4.5		VNC12	0.1004	VNC12	0.099	No Message	No Message
N+3.06	C15	74	0	5.3		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C15	74	125.5	4.5		VNC12	0.1172	VNC12	0.0937	No Message	No Message
N+3.06	C15	74	251	4.5		VNC12	0.1172	VNC12	0.0937	No Message	No Message
N+3.06	C16	77	0	6.92		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C16	77	125.5	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N+3.06	C16	77	251	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message

Story	Label	Unique Name	Station cm	Mid Bar As cm ²	Corner Bar As cm ²	V Major Combo	At V Major cm ² /cm	V Minor Combo	At V Minor cm ² /cm	Warnings	Errors
N+3.06	C17	82	0	4.5		VNC12	0.1317	VNC16	0.0863	No Message	No Message
N+3.06	C17	82	125.5	4.5		VNC12	0.1317	VNC16	0.0863	No Message	No Message
N+3.06	C17	82	251	4.5		VNC12	0.1317	VNC16	0.0863	No Message	No Message
N-0.05	C1	1	0	4.5		VNC16	0	VNC16	0.0502	No Message	No Message
N-0.05	C1	1	128	4.5		VNC16	0	VNC16	0.0502	No Message	No Message
N-0.05	C1	1	256	4.5		VNC16	0	VNC16	0.0502	No Message	No Message
N-0.05	C2	4	0	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N-0.05	C2	4	128	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N-0.05	C2	4	256	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N-0.05	C3	7	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C3	7	128	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C3	7	256	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C4	8	0	12.55		VNC16	0.0863	VNC16	0.0614	No Message	No Message
N-0.05	C4	8	128	12.25		VNC16	0.0863	VNC16	0.0614	No Message	No Message
N-0.05	C4	8	256	12.28		VNC16	0.0863	VNC16	0.0614	No Message	No Message
N-0.05	C5	12	0	4.5		VNC8	0.256	VNC8	0.0535	No Message	No Message
N-0.05	C5	12	128	4.5		VNC4	0.2579	VNC8	0.0535	No Message	No Message
N-0.05	C5	12	256	4.5		VNC4	0.2568	VNC8	0.0535	No Message	No Message
N-0.05	C6-1	244	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C6-1	244	20	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C6-1	244	40	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C6-2	243	0	4.5		VNC16	0	VNC16	0	No Message	No Message
N-0.05	C6-2	243	108	4.5		VNC16	0	VNC16	0	No Message	No Message
N-0.05	C6-2	243	216	4.5		VNC16	0	VNC16	0	No Message	No Message
N-0.05	C7	3	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C7	3	128	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C7	3	256	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C8	6	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C8	6	128	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C8	6	256	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C9	9	0	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N-0.05	C9	9	128	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N-0.05	C9	9	256	4.5		VNC16	0.0502	VNC16	0.0502	No Message	No Message
N-0.05	C10	11	0	4.5		VNC16	0.2557	VNC14	0.0941	No Message	No Message
N-0.05	C10	11	128	4.5		VNC16	0.2548	VNC14	0.0941	No Message	No Message
N-0.05	C10	11	256	4.5		VNC16	0.254	VNC14	0.0941	No Message	No Message
N-0.05	C11	13	0	4.5		VNC6	0.1525	VNC16	0	No Message	No Message
N-0.05	C11	13	128	4.5		VNC6	0.1519	VNC16	0	No Message	No Message
N-0.05	C11	13	256	4.5		VNC6	0.1513	VNC16	0	No Message	No Message
N-0.05	C12	15	0	5.81		VNC2	0.3068	VNC6	0.0587	No Message	No Message
N-0.05	C12	15	128	4.5		VNC2	0.3057	VNC6	0.0587	No Message	No Message
N-0.05	C12	15	256	7.1		VNC4	0.3046	VNC6	0.0587	No Message	No Message
N-0.05	C14-1	242	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C14-1	242	20	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C14-1	242	40	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C14-2	241	0	4.5		VNC16	0	VNC16	0	No Message	No Message
N-0.05	C14-2	241	108	4.5		VNC16	0	VNC16	0	No Message	No Message
N-0.05	C14-2	241	216	4.5		VNC16	0	VNC16	0	No Message	No Message
N-0.05	C15	2	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C15	2	128	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C15	2	256	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C16	5	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C16	5	128	4.5		VNC16	0.0502	VNC16	0	No Message	No Message

Story	Label	Unique Name	Station cm	Mid Bar As cm ²	Corner Bar As cm ²	V Major Combo	At V Major cm ² /cm	V Minor Combo	At V Minor cm ² /cm	Warnings	Errors
N-0.05	C16	5	256	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C17	10	0	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C17	10	128	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C17	10	256	4.5		VNC16	0.0502	VNC16	0	No Message	No Message
N-0.05	C19	14	0	4.5		VNC14	0.2584	VNC16	0.2239	No Message	No Message
N-0.05	C19	14	128	4.5		VNC10	0.258	VNC16	0.2239	No Message	No Message
N-0.05	C19	14	256	4.5		VNC10	0.2569	VNC16	0.2239	No Message	No Message

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 1
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 5.3. DISEÑO DE VIGAS

Concrete Beam Summary - ACI 318-08 (Part 1 of 2)

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+10.50	B1	354	0	V20X60	No Message	ENVOL	0.06	0.06	ENVOL	0.03	0.03
N+10.50	B1	354	102.5	V20X60	No Message	ENVOL	1.05	1.05	ENVOL	0.68	0.68
N+10.50	B1	354	205	V20X60	No Message	ENVOL	2.75	2.75	ENVOL	1.36	1.36
N+10.50	B3	231	0	V20X60	No Message	C6	3.6	3.6	C6	1.77	1.77
N+10.50	B3	231	362.5	V20X60	No Message	C6	0.88	0.88	C2	1.77	1.77
N+10.50	B3	231	725	V20X60	No Message	C6	2.6	2.6	C6	1.29	1.29
N+10.50	B4	232	0	V20X60	No Message	C6	1.48	1.48	C6	0.74	0.74
N+10.50	B4	232	287.5	V20X60	No Message	ENVOL	0.5	0.5	C2	1.13	1.13
N+10.50	B4	232	575	V20X60	No Message	ENVOL	2.03	2.03	ENVOL	1.01	1.01
N+10.50	B5	233	0	V20X60	No Message	C6	3.62	3.62	C6	1.78	1.78
N+10.50	B5	233	420	V20X60	No Message	C6	1.02	1.02	C2	2.71	2.71
N+10.50	B5	233	840	V20X60	No Message	ENVOL	3.68	3.68	C6	2.06	2.06
N+10.50	B6	234	0	V20X60	No Message	C6	2.53	2.53	C6	1.25	1.25
N+10.50	B6	234	225	V20X60	No Message	C6	0.62	0.62	C6	0.62	0.62
N+10.50	B6	234	450	V20X60	No Message	C6	0.61	0.61	C6	0.3	0.3
N+10.50	B17	353	0	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B17	353	52.5	V15X60	No Message	C6	0.14	0.14	C6	0.31	0.31
N+10.50	B17	353	105	V15X60	No Message	ENVOL	0	0	C6	0.58	0.58
N+10.50	B19	213	0	V40X60	No Message	ENVOL	0.01	0.01	C6	0.02	0.02
N+10.50	B19	213	37.5	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	0.85	0.85
N+10.50	B19	213	75	V40X60	No Message	ENVOL	3.45	3.45	ENVOL	1.71	1.71
N+10.50	B20	215	0	V40X60	No Message	C6	0.01	0.01	ENVOL	0.003811	0.003811
N+10.50	B20	215	37.5	V40X60	No Message	ENVOL	1.51	1.51	ENVOL	0.77	0.77
N+10.50	B20	215	75	V40X60	No Message	ENVOL	3.11	3.11	ENVOL	1.54	1.54
N+10.50	B21	218	0	V40X60	No Message	ENVOL	0.02	0.02	ENVOL	0.01	0.01
N+10.50	B21	218	37.5	V40X60	No Message	ENVOL	1.77	1.77	ENVOL	0.89	0.89
N+10.50	B21	218	75	V40X60	No Message	ENVOL	3.62	3.62	ENVOL	1.8	1.8
N+10.50	B22	221	0	V40X60	No Message	ENVOL	0	0	ENVOL	0.06	0.06
N+10.50	B22	221	37.5	V40X60	No Message	ENVOL	1.7	1.7	ENVOL	0.88	0.88
N+10.50	B22	221	75	V40X60	No Message	ENVOL	3.55	3.55	ENVOL	1.76	1.76
N+10.50	B23	226	0	V50X60	No Message	C6	0.06	0.06	C6	0.03	0.03
N+10.50	B23	226	52.5	V50X60	No Message	C6	0.68	0.68	C6	0.36	0.36
N+10.50	B23	226	105	V50X60	No Message	C6	1.45	1.45	C6	0.72	0.72
N+10.50	B31	270	0	V40X140	No Message	ENVOL	0.27	0.27	ENVOL	0.14	0.14
N+10.50	B31	270	52.5	V40X140	No Message	ENVOL	0.07	0.07	ENVOL	0.07	0.07
N+10.50	B31	270	105	V40X140	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B32	351	0	V50X60	No Message	ENVOL	0	0	C6	0.02	0.02
N+10.50	B32	351	87.5	V50X60	No Message	ENVOL	1.63	1.63	ENVOL	1.57	1.57
N+10.50	B32	351	175	V50X60	No Message	ENVOL	6.38	6.38	ENVOL	3.15	3.15
N+10.50	B34	201	30	V50X60	No Message	C6	6.78	6.78	C6	3.35	3.35
N+10.50	B34	201	362.5	V50X60	No Message	C6	1.67	1.67	C2	2.01	2.01
N+10.50	B34	201	695	V50X60	No Message	C6	5.16	5.16	C6	2.56	2.56
N+10.50	B35	202	30	V50X60	No Message	C6	6.77	6.77	C6	3.35	3.35
N+10.50	B35	202	287.5	V50X60	No Message	C6	1.71	1.71	C2	7.76	7.76
N+10.50	B35	202	545	V50X60	No Message	C6	6.97	6.97	C6	3.45	3.45
N+10.50	B36	203	30	V50X60	No Message	C6	6.53	6.53	C6	3.23	3.23
N+10.50	B36	203	420	V50X60	No Message	C6	2.01	2.01	C2	3.5	3.5
N+10.50	B36	203	810	V50X60	No Message	C6	8.21	8.21	C6	4.05	4.05
N+10.50	B37	204	30	V50X60	No Message	C6	0.29	0.29	C6	0.15	0.15
N+10.50	B37	204	150	V50X60	No Message	C6	0.46	0.46	ENVOL	0.22	0.22
N+10.50	B37	204	150	V50X60	No Message	C6	0.56	0.56	ENVOL	0.22	0.22
N+10.50	B37	204	240	V50X60	No Message	ENVOL	0.22	0.22	ENVOL	0.22	0.22

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+10.50	B37	204	300	V50X60	No Message	C6	0.53	0.53	ENVOL	0.22	0.22
N+10.50	B37	204	300	V50X60	No Message	C6	0.54	0.54	ENVOL	0.22	0.22
N+10.50	B37	204	450	V50X60	No Message	ENVOL	0.89	0.89	ENVOL	0.44	0.44
N+10.50	B38	205	0	V60X140	No Message	C6	1.96	1.96	C6	0.98	0.98
N+10.50	B38	205	70	V60X140	No Message	C6	2.64	2.64	C6	1.14	1.14
N+10.50	B38	205	140	V60X140	No Message	C6	4.59	4.59	C6	2.29	2.29
N+10.50	B40	266	0	V60X140	No Message	C6	26.11	41.14	C6	26.11	26.11
N+10.50	B40	266	50	V60X140	No Message	C6	26.11	32.33	C6	14.66	14.66
N+10.50	B40	266	50	V60X140	No Message	C6	26.11	27.85	C6	14.66	14.66
N+10.50	B40	266	870	V60X140	No Message	C6	14.66	14.66	C2	26.11	26.11
N+10.50	B40	266	1690	V60X140	No Message	C6	26.11	30.86	C6	14.66	14.66
N+10.50	B40	266	1690	V60X140	No Message	C6	26.11	36.04	C6	14.66	14.66
N+10.50	B40	266	1740	V60X140	No Message	C6	26.11	46.51	ENVOL	26.11	26.11
N+10.50	B42	267	0	V60X140	No Message	C6	5.3	5.3	C6	2.64	2.64
N+10.50	B42	267	70	V60X140	No Message	C6	3.16	3.16	C6	1.32	1.32
N+10.50	B42	267	140	V60X140	No Message	C6	1.74	1.74	C6	0.87	0.87
N+10.50	B43	224	0	V60X140	No Message	ENVOL	0.34	0.34	ENVOL	0.18	0.18
N+10.50	B43	224	70	V60X140	No Message	ENVOL	1	1	ENVOL	0.6	0.6
N+10.50	B43	224	140	V60X140	No Message	ENVOL	2.4	2.4	ENVOL	1.2	1.2
N+10.50	B44	269	0	V40X140	No Message	ENVOL	2.22	2.22	ENVOL	1.11	1.11
N+10.50	B44	269	70	V40X140	No Message	ENVOL	1	1	ENVOL	0.76	0.76
N+10.50	B44	269	140	V40X140	No Message	ENVOL	0.14	0.14	ENVOL	0.65	0.65
N+10.50	B50	297	0	V30X70	No Message	ENVOL	6.53	16.89	ENVOL	6.53	7.97
N+10.50	B50	297	95	V30X70	No Message	ENVOL	6.53	15.29	ENVOL	5.18	5.18
N+10.50	B50	297	190	V30X70	No Message	ENVOL	6.53	15.48	ENVOL	6.53	7.34
N+10.50	B54	302	0	V30X70	No Message	ENVOL	6.53	12.45	ENVOL	6.53	6.53
N+10.50	B54	302	95	V30X70	No Message	ENVOL	6.53	8.48	ENVOL	3.91	3.91
N+10.50	B54	302	190	V30X70	No Message	ENVOL	6.53	7.1	ENVOL	4.63	4.63
N+10.50	B55	284	0	V30X60	No Message	ENVOL	0.15	0.15	ENVOL	0.08	0.08
N+10.50	B55	284	83.333	V30X60	No Message	ENVOL	0.2	0.2	C6	0.05	0.05
N+10.50	B55	284	83.333	V30X60	No Message	C6	0.17	0.17	C6	0.05	0.05
N+10.50	B55	284	125	V30X60	No Message	C6	0.05	0.05	C2	0.12	0.12
N+10.50	B55	284	166.667	V30X60	No Message	ENVOL	0.19	0.19	C6	0.05	0.05
N+10.50	B55	284	166.667	V30X60	No Message	ENVOL	0.18	0.18	C6	0.05	0.05
N+10.50	B55	284	250	V30X60	No Message	C6	0.19	0.19	C6	0.1	0.1
N+10.50	B56	283	0	V30X60	No Message	ENVOL	5.28	5.28	ENVOL	5.52	5.52
N+10.50	B56	283	100	V30X60	No Message	C6	5.52	5.57	ENVOL	5.19	5.19
N+10.50	B56	283	200	V30X60	No Message	ENVOL	5.52	17.26	ENVOL	5.52	8.03
N+10.50	B57	352	0	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B57	352	370	V15X60	No Message	ENVOL	0	0	ENVOL	1.35	1.35
N+10.50	B57	352	740	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B59	214	30	V40X60	No Message	C6	7.37	7.65	C6	4.99	4.99
N+10.50	B59	214	150	V40X60	No Message	C6	3.12	3.12	ENVOL	3	3
N+10.50	B59	214	150	V40X60	No Message	C6	3.12	3.12	ENVOL	3	3
N+10.50	B59	214	300	V40X60	No Message	C6	2.47	2.47	C6	4.5	4.5
N+10.50	B59	214	300	V40X60	No Message	C6	2.47	2.47	C6	4.5	4.5
N+10.50	B59	214	370	V40X60	No Message	C6	2.47	2.47	C2	4.79	4.79
N+10.50	B59	214	450	V40X60	No Message	C6	2.47	2.47	C2	4.44	4.44
N+10.50	B59	214	450	V40X60	No Message	C6	2.47	2.47	C2	4.44	4.44
N+10.50	B59	214	600	V40X60	No Message	C6	2.8	2.8	ENVOL	2.5	2.5
N+10.50	B59	214	600	V40X60	No Message	C6	2.8	2.8	ENVOL	2.5	2.5
N+10.50	B59	214	710	V40X60	No Message	ENVOL	7.37	7.37	C6	4.52	4.52
N+10.50	B60	216	30	V40X60	No Message	ENVOL	7.37	7.37	C6	4.09	4.09

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+10.50	B60	216	150	V40X60	No Message	C6	2.42	2.42	C6	2.6	2.6
N+10.50	B60	216	150	V40X60	No Message	C6	2.42	2.42	C6	2.6	2.6
N+10.50	B60	216	300	V40X60	No Message	C6	2.42	2.42	C6	4.03	4.03
N+10.50	B60	216	300	V40X60	No Message	C6	2.42	2.42	C6	4.03	4.03
N+10.50	B60	216	370	V40X60	No Message	C6	2.42	2.42	C2	3.84	3.84
N+10.50	B60	216	450	V40X60	No Message	C6	2.42	2.42	C2	3.14	3.14
N+10.50	B60	216	450	V40X60	No Message	C6	2.42	2.42	C2	3.14	3.14
N+10.50	B60	216	600	V40X60	No Message	C6	3.46	3.46	C6	2.42	2.42
N+10.50	B60	216	600	V40X60	No Message	C6	3.46	3.46	C6	2.42	2.42
N+10.50	B60	216	710	V40X60	No Message	C6	7.37	7.49	C6	4.89	4.89
N+10.50	B61	219	30	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	4.12	4.12
N+10.50	B61	219	150	V40X60	No Message	ENVOL	2.04	2.04	ENVOL	2.04	2.04
N+10.50	B61	219	150	V40X60	No Message	ENVOL	2.04	2.04	ENVOL	2.04	2.04
N+10.50	B61	219	300	V40X60	No Message	ENVOL	2.04	2.04	C2	4.22	4.22
N+10.50	B61	219	300	V40X60	No Message	ENVOL	2.04	2.04	C2	4.22	4.22
N+10.50	B61	219	370	V40X60	No Message	ENVOL	2.04	2.04	C2	4.33	4.33
N+10.50	B61	219	450	V40X60	No Message	ENVOL	2.04	2.04	C2	3.77	3.77
N+10.50	B61	219	450	V40X60	No Message	ENVOL	2.04	2.04	C2	3.77	3.77
N+10.50	B61	219	600	V40X60	No Message	ENVOL	2.04	2.04	ENVOL	2.04	2.04
N+10.50	B61	219	600	V40X60	No Message	ENVOL	2.04	2.04	ENVOL	2.04	2.04
N+10.50	B61	219	710	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	4.02	4.02
N+10.50	B62	222	30	V40X60	No Message	ENVOL	0.17	0.17	C6	0.23	0.23
N+10.50	B62	222	150	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	1.68	1.68
N+10.50	B62	222	150	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	1.68	1.68
N+10.50	B62	222	300	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	1.68	1.68
N+10.50	B62	222	300	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	1.68	1.68
N+10.50	B62	222	350	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	1.68	1.68
N+10.50	B62	222	350	V40X60	No Message	ENVOL	7.37	10.81	ENVOL	3.54	3.54
N+10.50	B62	222	370	V40X60	No Message	ENVOL	7.37	9.43	ENVOL	3.48	3.48
N+10.50	B62	222	450	V40X60	No Message	ENVOL	5.94	5.94	ENVOL	2.96	2.96
N+10.50	B62	222	450	V40X60	No Message	ENVOL	5.94	5.94	ENVOL	2.96	2.96
N+10.50	B62	222	600	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	2.78	2.78
N+10.50	B62	222	600	V40X60	No Message	ENVOL	1.68	1.68	ENVOL	2.78	2.78
N+10.50	B62	222	710	V40X60	No Message	ENVOL	3.45	3.45	ENVOL	6.85	6.85
N+10.50	B80	237	0	V50X60	No Message	ENVOL	0	0	ENVOL	0.08	0.08
N+10.50	B80	237	87.5	V50X60	No Message	ENVOL	3.49	3.49	ENVOL	3	3
N+10.50	B80	237	175	V50X60	No Message	ENVOL	9.21	9.3	ENVOL	6.07	6.07
N+10.50	B82	197	30	V50X60	No Message	C6	8.81	8.81	C6	4.34	4.34
N+10.50	B82	197	362.5	V50X60	No Message	C6	2.16	2.16	C6	2.16	2.16
N+10.50	B82	197	695	V50X60	No Message	C6	4.62	4.62	C6	2.29	2.29
N+10.50	B83	198	30	V50X60	No Message	C6	6.55	6.55	C6	3.24	3.24
N+10.50	B83	198	287.5	V50X60	No Message	C6	2.84	2.84	C2	9.21	9.21
N+10.50	B83	198	545	V50X60	No Message	ENVOL	9.21	9.21	C6	5.74	5.74
N+10.50	B84	199	30	V50X60	No Message	ENVOL	9.21	13.9	ENVOL	8.97	8.97
N+10.50	B84	199	420	V50X60	No Message	ENVOL	4.42	4.42	C2	9.21	11.57
N+10.50	B84	199	810	V50X60	No Message	ENVOL	9.21	10.89	ENVOL	7.08	7.08
N+10.50	B85	200	30	V50X60	No Message	ENVOL	4.57	4.57	ENVOL	2.27	2.27
N+10.50	B85	200	240	V50X60	No Message	ENVOL	9.21	9.21	ENVOL	9.21	9.21
N+10.50	B85	200	450	V50X60	No Message	ENVOL	9.21	30.92	ENVOL	9.21	14.29
N+10.50	B86	225	0	V60X140	No Message	ENVOL	6.51	6.51	ENVOL	3.24	3.24
N+10.50	B86	225	70	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	70	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	140	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+10.50	B86	225	140	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	190	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	190	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	210	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	210	V60X140	No Message	ENVOL	26.11	36.59	ENVOL	13.44	13.44
N+10.50	B86	225	395	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	16.17	16.17
N+10.50	B86	225	395	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	16.45	16.45
N+10.50	B86	225	600	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	26.11	26.11
N+10.50	B86	225	600	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	26.11	26.11
N+10.50	B86	225	780	V60X140	No Message	ENVOL	13.44	13.44	C2	19.75	19.75
N+10.50	B86	225	780	V60X140	No Message	ENVOL	13.44	13.44	C2	19.44	19.44
N+10.50	B86	225	960	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	960	V60X140	No Message	ENVOL	13.44	13.44	ENVOL	13.44	13.44
N+10.50	B86	225	1140	V60X140	No Message	ENVOL	26.11	32.93	ENVOL	13.44	13.44
N+10.50	B86	225	1140	V60X140	No Message	ENVOL	26.11	33.85	ENVOL	13.44	13.44
N+10.50	B86	225	1200	V60X140	No Message	ENVOL	26.11	42.41	ENVOL	26.11	26.11
N+10.50	B87	303	0	V40X100	No Message	ENVOL	12.05	23.32	ENVOL	12.05	12.05
N+10.50	B87	303	200	V40X100	No Message	ENVOL	7.31	7.31	C2	8.07	8.07
N+10.50	B87	303	200	V40X100	No Message	ENVOL	7.31	7.31	ENVOL	7.31	7.31
N+10.50	B87	303	380	V40X100	No Message	ENVOL	7.31	7.31	ENVOL	12.05	12.05
N+10.50	B87	303	380	V40X100	No Message	ENVOL	7.31	7.31	ENVOL	12.05	12.05
N+10.50	B87	303	560	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	13.78
N+10.50	B87	303	560	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	13.47
N+10.50	B87	303	740	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	12.76
N+10.50	B87	303	740	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	12.49
N+10.50	B87	303	945	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	13.06
N+10.50	B87	303	945	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	13.31
N+10.50	B87	303	1150	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	12.53
N+10.50	B87	303	1150	V40X100	No Message	ENVOL	7.31	7.31	C2	12.05	13.57
N+10.50	B87	303	1480	V40X100	No Message	ENVOL	12.05	19.38	ENVOL	12.05	12.05
N+10.50	B97	305	0	V40X100	No Message	ENVOL	12.05	29	ENVOL	12.05	13.74
N+10.50	B97	305	200	V40X100	No Message	ENVOL	9.09	9.09	ENVOL	9.09	9.09
N+10.50	B97	305	200	V40X100	No Message	ENVOL	9.09	9.09	ENVOL	9.09	9.09
N+10.50	B97	305	380	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	13.11
N+10.50	B97	305	380	V40X100	No Message	ENVOL	9.09	9.09	ENVOL	12.05	12.05
N+10.50	B97	305	560	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	18.06
N+10.50	B97	305	560	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	17.32
N+10.50	B97	305	740	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	20.41
N+10.50	B97	305	740	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	20.06
N+10.50	B97	305	945	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	20.29
N+10.50	B97	305	945	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	21.01
N+10.50	B97	305	1150	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	17.29
N+10.50	B97	305	1150	V40X100	No Message	ENVOL	9.09	9.09	C2	12.05	18.93
N+10.50	B97	305	1480	V40X100	No Message	ENVOL	12.05	29.51	ENVOL	12.05	13.97
N+10.50	B98	268	0	V40X140	No Message	ENVOL	18.08	38.74	ENVOL	18.08	18.48
N+10.50	B98	268	60	V40X140	No Message	ENVOL	18.08	31.86	ENVOL	12.06	12.06
N+10.50	B98	268	60	V40X140	No Message	ENVOL	18.08	30.59	ENVOL	12.06	12.06
N+10.50	B98	268	240	V40X140	No Message	ENVOL	17.15	17.15	ENVOL	12.06	12.06
N+10.50	B98	268	240	V40X140	No Message	ENVOL	16.18	16.18	ENVOL	12.06	12.06
N+10.50	B98	268	420	V40X140	No Message	ENVOL	12.06	12.06	ENVOL	12.06	12.06
N+10.50	B98	268	420	V40X140	No Message	ENVOL	12.06	12.06	ENVOL	12.68	12.68
N+10.50	B98	268	600	V40X140	No Message	ENVOL	12.06	12.06	C2	14.9	14.9
N+10.50	B98	268	600	V40X140	No Message	ENVOL	12.06	12.06	C2	15.14	15.14

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+10.50	B98	268	805	V40X140	No Message	ENVOL	12.06	12.06	ENVOL	14.95	14.95
N+10.50	B98	268	805	V40X140	No Message	ENVOL	12.06	12.06	ENVOL	14.31	14.31
N+10.50	B98	268	1010	V40X140	No Message	ENVOL	16.79	16.79	ENVOL	12.33	12.33
N+10.50	B98	268	1010	V40X140	No Message	ENVOL	18.04	18.04	ENVOL	12.06	12.06
N+10.50	B98	268	1200	V40X140	No Message	ENVOL	18.08	28.41	ENVOL	18.08	18.08
N+10.50	B115	239	0	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B115	239	370	V15X60	No Message	ENVOL	0	0	ENVOL	1.35	1.35
N+10.50	B115	239	740	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B118	238	30	V40X60	No Message	C6	7.37	7.41	C6	4.84	4.84
N+10.50	B118	238	150	V40X60	No Message	C6	2.58	2.58	ENVOL	2.42	2.42
N+10.50	B118	238	150	V40X60	No Message	C6	2.58	2.58	ENVOL	2.42	2.42
N+10.50	B118	238	300	V40X60	No Message	C6	2.4	2.4	C2	4.74	4.74
N+10.50	B118	238	300	V40X60	No Message	C6	2.4	2.4	C2	4.74	4.74
N+10.50	B118	238	370	V40X60	No Message	C6	2.4	2.4	C2	5.16	5.16
N+10.50	B118	238	450	V40X60	No Message	C6	2.4	2.4	C6	5.2	5.2
N+10.50	B118	238	450	V40X60	No Message	C6	2.4	2.4	C6	5.2	5.2
N+10.50	B118	238	600	V40X60	No Message	ENVOL	2.7	2.7	C6	3.9	3.9
N+10.50	B118	238	600	V40X60	No Message	ENVOL	2.7	2.7	C6	3.9	3.9
N+10.50	B118	238	710	V40X60	No Message	ENVOL	7.37	7.37	C6	4.2	4.2
N+10.50	B119	217	30	V40X60	No Message	C6	7.37	11.21	C6	7.24	7.24
N+10.50	B119	217	150	V40X60	No Message	C6	3.56	3.56	C6	3.56	3.56
N+10.50	B119	217	150	V40X60	No Message	C6	3.56	3.56	C6	3.56	3.56
N+10.50	B119	217	300	V40X60	No Message	C6	3.56	3.56	C2	7.37	10.01
N+10.50	B119	217	300	V40X60	No Message	C6	3.56	3.56	C2	7.37	10.01
N+10.50	B119	217	320	V40X60	No Message	C6	3.56	3.56	C2	7.37	10.9
N+10.50	B119	217	320	V40X60	No Message	C6	3.56	3.56	C2	7.37	10.84
N+10.50	B119	217	370	V40X60	No Message	C6	3.56	3.56	C2	7.37	9.43
N+10.50	B119	217	450	V40X60	No Message	C6	3.56	3.56	ENVOL	7.37	7.37
N+10.50	B119	217	450	V40X60	No Message	C6	3.56	3.56	ENVOL	7.37	7.37
N+10.50	B119	217	600	V40X60	No Message	C6	3.56	3.56	C6	3.56	3.56
N+10.50	B119	217	600	V40X60	No Message	C6	3.56	3.56	C6	3.56	3.56
N+10.50	B119	217	710	V40X60	No Message	C6	7.37	9.54	C6	6.19	6.19
N+10.50	B120	220	30	V40X60	No Message	ENVOL	7.37	8.04	ENVOL	5.24	5.24
N+10.50	B120	220	320	V40X60	No Message	ENVOL	2.59	2.59	C2	7.37	8.89
N+10.50	B120	220	320	V40X60	No Message	ENVOL	2.59	2.59	C2	7.37	8.94
N+10.50	B120	220	370	V40X60	No Message	ENVOL	2.59	2.59	C2	7.37	7.5
N+10.50	B120	220	710	V40X60	No Message	ENVOL	7.37	7.43	ENVOL	4.85	4.85
N+10.50	B121	223	30	V40X60	No Message	ENVOL	1.95	1.95	ENVOL	0.97	0.97
N+10.50	B121	223	370	V40X60	No Message	ENVOL	1.09	1.09	ENVOL	1.48	1.48
N+10.50	B121	223	710	V40X60	No Message	ENVOL	4.44	4.44	ENVOL	2.2	2.2
N+10.50	B125	298	0	V30X70	No Message	ENVOL	6.53	6.88	ENVOL	4.49	4.49
N+10.50	B125	298	95	V30X70	No Message	ENVOL	6.53	8.46	C6	3.64	3.64
N+10.50	B125	298	190	V30X70	No Message	C6	6.53	11.56	ENVOL	6.53	6.53
N+10.50	B129	300	0	V30X70	No Message	ENVOL	6.53	10.29	ENVOL	6.53	6.53
N+10.50	B129	300	95	V30X70	No Message	ENVOL	6.53	7.03	ENVOL	3.27	3.27
N+10.50	B129	300	190	V30X70	No Message	ENVOL	6.53	6.53	ENVOL	4.24	4.24
N+10.50	B133	227	0	V60X140	No Message	ENVOL	5	5	ENVOL	2.49	2.49
N+10.50	B133	227	70	V60X140	No Message	ENVOL	2.68	2.68	ENVOL	1.24	1.24
N+10.50	B133	227	140	V60X140	No Message	ENVOL	0.82	0.82	ENVOL	0.41	0.41
N+10.50	B134	229	0	V40X140	No Message	ENVOL	3.01	3.01	ENVOL	1.5	1.5
N+10.50	B134	229	70	V40X140	No Message	ENVOL	1.51	1.51	ENVOL	0.75	0.75
N+10.50	B134	229	140	V40X140	No Message	ENVOL	0.29	0.29	ENVOL	0.48	0.48
N+10.50	B135	236	0	V50X60	No Message	C6	0.04	0.04	C6	0.02	0.02

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+10.50	B135	236	87.5	V50X60	No Message	ENVOL	1.92	1.92	ENVOL	1.62	1.62
N+10.50	B135	236	175	V50X60	No Message	ENVOL	6.6	6.6	ENVOL	3.26	3.26
N+10.50	B137	206	30	V50X60	No Message	C6	7.57	7.57	C6	3.74	3.74
N+10.50	B137	206	362.5	V50X60	No Message	C6	1.86	1.86	C6	1.86	1.86
N+10.50	B137	206	695	V50X60	No Message	C6	4.43	4.43	C6	2.2	2.2
N+10.50	B138	207	30	V50X60	No Message	C6	4.84	4.84	C6	2.4	2.4
N+10.50	B138	207	287.5	V50X60	No Message	C6	2.33	2.33	C2	3.45	3.45
N+10.50	B138	207	545	V50X60	No Message	ENVOL	9.21	9.21	C6	4.7	4.7
N+10.50	B139	208	30	V50X60	No Message	C6	9.21	12.29	C6	7.97	7.97
N+10.50	B139	208	420	V50X60	No Message	C6	3.93	3.93	C2	9.21	11.27
N+10.50	B139	208	810	V50X60	No Message	C6	9.21	11.68	C6	7.58	7.58
N+10.50	B140	209	30	V50X60	No Message	C6	9.21	9.28	C6	6.06	6.06
N+10.50	B140	209	240	V50X60	No Message	C6	3.13	3.13	C2	5.1	5.1
N+10.50	B140	209	450	V50X60	No Message	C6	9.21	9.7	C6	6.33	6.33
N+10.50	B141	210	0	V60X140	No Message	ENVOL	1.37	1.37	ENVOL	0.68	0.68
N+10.50	B141	210	70	V60X140	No Message	C6	3.3	3.3	C6	1.47	1.47
N+10.50	B141	210	140	V60X140	No Message	C6	5.89	5.89	C6	2.94	2.94
N+10.50	B143	211	0	V60X140	No Message	C6	26.11	54.47	ENVOL	26.11	26.11
N+10.50	B143	211	50	V60X140	No Message	C6	26.11	42.62	C6	17.07	17.07
N+10.50	B143	211	50	V60X140	No Message	C6	26.11	37.81	C6	17.07	17.07
N+10.50	B143	211	605	V60X140	No Message	C6	17.07	17.07	C2	24.98	24.98
N+10.50	B143	211	605	V60X140	No Message	C6	17.07	17.07	C2	24.98	24.98
N+10.50	B143	211	870	V60X140	No Message	C6	17.07	17.07	C2	26.11	26.11
N+10.50	B143	211	1135	V60X140	No Message	C6	17.07	17.07	C2	25.37	25.37
N+10.50	B143	211	1135	V60X140	No Message	C6	17.07	17.07	C2	25.37	25.37
N+10.50	B143	211	1690	V60X140	No Message	C6	26.11	37.06	C6	17.07	17.07
N+10.50	B143	211	1690	V60X140	No Message	C6	26.11	42.41	C6	17.07	17.07
N+10.50	B143	211	1740	V60X140	No Message	C6	26.11	54.74	C6	26.11	26.14
N+10.50	B145	212	0	V60X140	No Message	C6	6.09	6.09	C6	3.04	3.04
N+10.50	B145	212	70	V60X140	No Message	C6	3.64	3.64	C6	1.52	1.52
N+10.50	B145	212	140	V60X140	No Message	C6	1.96	1.96	C6	0.98	0.98
N+10.50	B146	228	0	V60X140	No Message	ENVOL	1.95	1.95	ENVOL	0.97	0.97
N+10.50	B146	228	112.5	V60X140	No Message	ENVOL	0.49	0.49	ENVOL	0.49	0.49
N+10.50	B146	228	225	V60X140	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B148	304	0	V40X100	No Message	ENVOL	1.34	1.34	ENVOL	0.67	0.67
N+10.50	B148	304	112.5	V40X100	No Message	ENVOL	0.33	0.33	ENVOL	0.33	0.33
N+10.50	B148	304	225	V40X100	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B163	306	0	V40X100	No Message	ENVOL	1.34	1.34	ENVOL	0.67	0.67
N+10.50	B163	306	112.5	V40X100	No Message	ENVOL	0.33	0.33	ENVOL	0.33	0.33
N+10.50	B163	306	225	V40X100	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B165	230	0	V40X140	No Message	ENVOL	1.25	1.25	ENVOL	0.62	0.62
N+10.50	B165	230	112.5	V40X140	No Message	ENVOL	0.31	0.31	ENVOL	0.31	0.31
N+10.50	B165	230	225	V40X140	No Message	ENVOL	0	0	ENVOL	0	0
N+10.50	B178	277	0	V50X70	No Message	ENVOL	10.88	25.91	ENVOL	10.88	12.28
N+10.50	B178	277	95	V50X70	No Message	ENVOL	10.88	15.6	ENVOL	8	8
N+10.50	B178	277	190	V50X70	No Message	ENVOL	10.08	10.08	ENVOL	4.97	4.97
N+10.50	B182	279	0	V50X70	No Message	ENVOL	0	0	ENVOL	3.53	3.53
N+10.50	B182	279	95	V50X70	No Message	ENVOL	2.04	2.04	ENVOL	2.03	2.03
N+10.50	B182	279	190	V50X70	No Message	ENVOL	8.25	8.25	ENVOL	4.08	4.08
N+10.50	B184	280	0	V30X70	No Message	ENVOL	6.53	16.8	ENVOL	6.53	7.93
N+10.50	B184	280	95	V30X70	No Message	ENVOL	6.53	10.29	ENVOL	5.15	5.15
N+10.50	B184	280	190	V30X70	No Message	ENVOL	6.53	6.53	ENVOL	3.67	3.67
N+10.50	B188	282	0	V30X70	No Message	C6	0.99	0.99	C6	0.49	0.49

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+10.50	B188	282	95	V30X70	No Message	ENVOL	3.53	3.53	ENVOL	2.04	2.04
N+10.50	B188	282	190	V30X70	No Message	ENVOL	6.53	6.53	ENVOL	4.11	4.11
N+10.50	B193	274	0	V30X70	No Message	ENVOL	6.53	11.44	ENVOL	6.53	6.53
N+10.50	B193	274	95	V30X70	No Message	ENVOL	6.53	7.58	ENVOL	3.61	3.61
N+10.50	B193	274	190	V30X70	No Message	ENVOL	6.53	6.53	C6	3.31	3.31
N+10.50	B197	276	0	V30X70	No Message	ENVOL	0.32	0.32	ENVOL	1.45	1.45
N+10.50	B197	276	95	V30X70	No Message	C6	2.08	2.08	ENVOL	1.46	1.46
N+10.50	B197	276	190	V30X70	No Message	ENVOL	5.95	5.95	ENVOL	2.93	2.93
N+10.50	B198	271	0	V30X70	No Message	ENVOL	6.53	10.25	ENVOL	6.53	6.53
N+10.50	B198	271	95	V30X70	No Message	ENVOL	6.53	7.24	ENVOL	3.25	3.25
N+10.50	B198	271	190	V30X70	No Message	ENVOL	6.53	6.53	C6	3.88	3.88
N+10.50	B202	273	0	V30X70	No Message	ENVOL	3.86	3.86	ENVOL	1.91	1.91
N+10.50	B202	273	95	V30X70	No Message	C6	4.1	4.1	ENVOL	1.72	1.72
N+10.50	B202	273	190	V30X70	No Message	ENVOL	6.53	6.53	ENVOL	3.47	3.47
N+10.50	B208	272	0	V30X70	No Message	C6	6.53	6.97	C6	4.54	4.54
N+10.50	B208	272	820	V30X70	No Message	C6	2.25	2.25	C2	6.53	9.49
N+10.50	B208	272	1640	V30X70	No Message	C6	5.14	5.14	C6	2.54	2.54
N+10.50	B210	275	0	V30X70	No Message	ENVOL	6.53	6.53	C6	4.22	4.22
N+10.50	B210	275	820	V30X70	No Message	C6	2.09	2.09	ENVOL	6.53	10.39
N+10.50	B210	275	1640	V30X70	No Message	C6	2.65	2.65	C6	1.32	1.32
N+10.50	B212	278	0	V50X70	No Message	ENVOL	10.88	10.88	ENVOL	5.78	5.78
N+10.50	B212	278	820	V50X70	No Message	ENVOL	2.86	2.86	ENVOL	10.88	16.8
N+10.50	B212	278	1640	V50X70	No Message	ENVOL	0.94	0.94	C6	0.97	0.97
N+10.50	B214	281	0	V30X70	No Message	ENVOL	6.53	6.53	ENVOL	4.19	4.19
N+10.50	B214	281	820	V30X70	No Message	ENVOL	2.08	2.08	ENVOL	6.53	11.05
N+10.50	B214	281	1640	V30X70	No Message	C6	2.84	2.84	C6	1.41	1.41
N+10.50	B216	299	0	V30X70	No Message	ENVOL	6.53	18.15	ENVOL	6.53	8.52
N+10.50	B216	299	820	V30X70	No Message	ENVOL	5.53	5.53	C2	6.53	16.68
N+10.50	B216	299	1640	V30X70	No Message	ENVOL	6.53	16.06	ENVOL	6.53	7.6
N+10.50	B218	301	0	V30X70	No Message	ENVOL	6.53	26.47	ENVOL	6.53	12
N+10.50	B218	301	820	V30X70	No Message	ENVOL	6.53	6.53	C2	6.53	26.14
N+10.50	B218	301	1640	V30X70	No Message	ENVOL	6.53	22.79	ENVOL	6.53	10.49
N+10.50	B219	355	0	V30X60	No Message	ENVOL	3.32	3.32	ENVOL	1.65	1.65
N+10.50	B219	355	287.5	V30X60	No Message	ENVOL	1.27	1.27	C2	5.52	7.59
N+10.50	B219	355	575	V30X60	No Message	ENVOL	5.21	5.21	ENVOL	2.57	2.57
N+6.12	B3	175	0	V15X60	No Message	C6	2.05	2.05	C6	1.01	1.01
N+6.12	B3	175	362.5	V15X60	No Message	ENVOL	0.88	0.88	C2	2.76	2.76
N+6.12	B3	175	725	V15X60	No Message	ENVOL	2.76	2.76	ENVOL	1.77	1.77
N+6.12	B4	176	0	V15X60	No Message	ENVOL	2.76	2.76	ENVOL	1.37	1.37
N+6.12	B4	176	287.5	V15X60	No Message	ENVOL	0.74	0.74	C2	1.17	1.17
N+6.12	B4	176	575	V15X60	No Message	ENVOL	2.76	2.76	ENVOL	1.5	1.5
N+6.12	B5	177	0	V15X60	No Message	C6	2.76	2.81	C6	1.83	1.83
N+6.12	B5	177	420	V15X60	No Message	ENVOL	1.24	1.24	C2	2.76	2.8
N+6.12	B5	177	840	V15X60	No Message	ENVOL	2.76	3.88	ENVOL	2.51	2.51
N+6.12	B6	263	0	V30X60	No Message	ENVOL	3.35	3.35	ENVOL	1.66	1.66
N+6.12	B6	263	225	V30X60	No Message	ENVOL	0.83	0.83	ENVOL	0.83	0.83
N+6.12	B6	263	450	V30X60	No Message	ENVOL	2.25	2.25	ENVOL	1.12	1.12
N+6.12	B8	328	0	V15X60	No Message	ENVOL	2.76	2.76	ENVOL	1.76	1.76
N+6.12	B8	328	336.667	V15X60	No Message	ENVOL	1.05	1.05	C2	1.61	1.61
N+6.12	B8	328	673.333	V15X60	No Message	ENVOL	2.76	3.26	ENVOL	2.12	2.12
N+6.12	B12	329	0	V15X60	No Message	C6	1.07	1.07	C6	0.53	0.53
N+6.12	B12	329	336.667	V15X60	No Message	C6	0.33	0.33	ENVOL	2.76	2.76
N+6.12	B12	329	673.334	V15X60	No Message	C6	1.34	1.34	C6	0.67	0.67

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+6.12	B15	330	0	V15X60	No Message	ENVOL	2.76	3.53	ENVOL	2.29	2.29
N+6.12	B15	330	336.667	V15X60	No Message	ENVOL	1.13	1.13	C2	1.87	1.87
N+6.12	B15	330	673.333	V15X60	No Message	ENVOL	2.43	2.43	ENVOL	1.2	1.2
N+6.12	B19	157	0	V40X60	No Message	C6	0.02	0.02	C6	0.01	0.01
N+6.12	B19	157	37.5	V40X60	No Message	ENVOL	1.03	1.03	ENVOL	0.53	0.53
N+6.12	B19	157	75	V40X60	No Message	ENVOL	2.13	2.13	ENVOL	1.06	1.06
N+6.12	B20	159	0	V40X60	No Message	ENVOL	0	0	ENVOL	0.01	0.01
N+6.12	B20	159	37.5	V40X60	No Message	ENVOL	2.04	2.04	ENVOL	1.03	1.03
N+6.12	B20	159	75	V40X60	No Message	ENVOL	4.19	4.19	ENVOL	2.08	2.08
N+6.12	B21	162	0	V40X60	No Message	ENVOL	0.000689	0.000689	C6	0.004479	0.004479
N+6.12	B21	162	37.5	V40X60	No Message	ENVOL	2.1	2.1	ENVOL	1.06	1.06
N+6.12	B21	162	75	V40X60	No Message	ENVOL	4.31	4.31	ENVOL	2.14	2.14
N+6.12	B22	165	0	V40X60	No Message	ENVOL	0	0	ENVOL	0.15	0.15
N+6.12	B22	165	37.5	V40X60	No Message	ENVOL	2.14	2.14	ENVOL	1.11	1.11
N+6.12	B22	165	75	V40X60	No Message	ENVOL	4.5	4.5	ENVOL	2.23	2.23
N+6.12	B23	170	0	V60X60	No Message	ENVOL	0	0	ENVOL	0.27	0.27
N+6.12	B23	170	52.5	V60X60	No Message	ENVOL	2.21	2.21	ENVOL	1.21	1.21
N+6.12	B23	170	105	V60X60	No Message	ENVOL	4.89	4.89	ENVOL	2.43	2.43
N+6.12	B25	321	0	V40X60	No Message	ENVOL	6.41	6.41	ENVOL	3.16	3.16
N+6.12	B25	321	52.5	V40X60	No Message	ENVOL	3.27	3.27	ENVOL	1.57	1.57
N+6.12	B25	321	105	V40X60	No Message	ENVOL	0.34	0.34	ENVOL	0.17	0.17
N+6.12	B29	324	0	V40X60	No Message	ENVOL	6.77	6.77	ENVOL	3.34	3.34
N+6.12	B29	324	52.5	V40X60	No Message	ENVOL	3.47	3.47	ENVOL	1.66	1.66
N+6.12	B29	324	105	V40X60	No Message	ENVOL	0.38	0.38	ENVOL	0.19	0.19
N+6.12	B31	260	0	V40X60	No Message	ENVOL	2.38	2.38	ENVOL	1.18	1.18
N+6.12	B31	260	52.5	V40X60	No Message	ENVOL	0.94	0.94	ENVOL	0.59	0.59
N+6.12	B31	260	105	V40X60	No Message	ENVOL	0	0	ENVOL	0.36	0.36
N+6.12	B34	145	30	V50X60	No Message	C6	9.21	12.23	C6	7.93	7.93
N+6.12	B34	145	362.5	V50X60	No Message	ENVOL	4.72	4.72	C2	9.21	13.94
N+6.12	B34	145	695	V50X60	No Message	ENVOL	9.21	14.88	ENVOL	9.21	9.21
N+6.12	B35	146	30	V50X60	No Message	C6	9.21	9.72	C6	6.34	6.34
N+6.12	B35	146	287.5	V50X60	No Message	C6	3.4	3.4	C2	9.21	9.21
N+6.12	B35	146	545	V50X60	No Message	C6	9.21	10.57	C6	6.88	6.88
N+6.12	B36	147	30	V50X60	No Message	ENVOL	9.21	18.29	ENVOL	9.21	9.21
N+6.12	B36	147	420	V50X60	No Message	ENVOL	7.26	7.26	C2	9.21	18.55
N+6.12	B36	147	810	V50X60	No Message	ENVOL	9.21	23.65	ENVOL	9.21	11.16
N+6.12	B37	148	30	V50X60	No Message	C6	0.66	0.66	C6	0.33	0.33
N+6.12	B37	148	150	V50X60	No Message	C6	0.66	0.66	C6	0.62	0.62
N+6.12	B37	148	150	V50X60	No Message	C6	0.74	0.74	C6	0.62	0.62
N+6.12	B37	148	240	V50X60	No Message	C6	0.62	0.62	C6	0.62	0.62
N+6.12	B37	148	300	V50X60	No Message	C6	1.13	1.13	C6	0.62	0.62
N+6.12	B37	148	300	V50X60	No Message	C6	0.67	0.67	C6	0.62	0.62
N+6.12	B37	148	450	V50X60	No Message	C6	2.48	2.48	C6	1.24	1.24
N+6.12	B38	149	0	V60X140	No Message	C6	5.72	5.72	C6	2.85	2.85
N+6.12	B38	149	70	V60X140	No Message	ENVOL	7.15	7.15	ENVOL	2.5	2.5
N+6.12	B38	149	140	V60X140	No Message	ENVOL	10.1	10.1	ENVOL	5.02	5.02
N+6.12	B40	261	0	V60X140	No Message	ENVOL	26.11	112.63	ENVOL	26.11	51.65
N+6.12	B40	261	533.333	V60X140	No Message	ENVOL	26.11	26.11	C2	26.11	61.23
N+6.12	B40	261	533.333	V60X140	No Message	ENVOL	26.11	26.11	C2	26.11	61.9
N+6.12	B40	261	870	V60X140	No Message	ENVOL	26.11	26.11	C2	26.11	76.79
N+6.12	B40	261	1206.667	V60X140	No Message	ENVOL	26.11	26.11	C2	26.11	64.16
N+6.12	B40	261	1206.667	V60X140	No Message	ENVOL	26.11	26.11	C2	26.11	64.07

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+6.12	B40	261	1740	V60X140	No Message	ENVOL	26.11	110.67	ENVOL	26.11	50.58
N+6.12	B42	262	0	V60X140	No Message	ENVOL	9.39	9.39	ENVOL	4.67	4.67
N+6.12	B42	262	70	V60X140	No Message	ENVOL	5.63	5.63	ENVOL	2.33	2.33
N+6.12	B42	262	140	V60X140	No Message	ENVOL	3.28	3.28	ENVOL	1.64	1.64
N+6.12	B43	168	0	V60X140	No Message	ENVOL	0.85	0.85	ENVOL	0.42	0.42
N+6.12	B43	168	70	V60X140	No Message	ENVOL	0.88	0.88	ENVOL	0.42	0.42
N+6.12	B43	168	140	V60X140	No Message	ENVOL	1.68	1.68	ENVOL	0.84	0.84
N+6.12	B44	259	0	V40X140	No Message	ENVOL	2.15	2.15	ENVOL	1.08	1.08
N+6.12	B44	259	70	V40X140	No Message	ENVOL	1.34	1.34	ENVOL	0.54	0.54
N+6.12	B44	259	140	V40X140	No Message	ENVOL	0.74	0.74	ENVOL	0.37	0.37
N+6.12	B55	264	0	V30X60	No Message	ENVOL	0.15	0.15	ENVOL	0.07	0.07
N+6.12	B55	264	83.333	V30X60	No Message	ENVOL	0.26	0.26	ENVOL	0.05	0.05
N+6.12	B55	264	83.333	V30X60	No Message	ENVOL	0.19	0.19	ENVOL	0.05	0.05
N+6.12	B55	264	125	V30X60	No Message	ENVOL	0.05	0.05	ENVOL	0.12	0.12
N+6.12	B55	264	166.667	V30X60	No Message	ENVOL	0.26	0.26	ENVOL	0.05	0.05
N+6.12	B55	264	166.667	V30X60	No Message	ENVOL	0.22	0.22	ENVOL	0.05	0.05
N+6.12	B55	264	250	V30X60	No Message	ENVOL	0.19	0.19	ENVOL	0.09	0.09
N+6.12	B56	265	0	V30X60	No Message	ENVOL	5.52	5.52	ENVOL	5.52	6.58
N+6.12	B56	265	100	V30X60	No Message	ENVOL	4.67	4.67	ENVOL	4.31	4.31
N+6.12	B56	265	200	V30X60	No Message	ENVOL	5.52	14.03	ENVOL	5.52	6.63
N+6.12	B59	158	30	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	4.8	4.8
N+6.12	B59	158	370	V40X60	No Message	C6	2.23	2.23	C6	2.23	2.23
N+6.12	B59	158	710	V40X60	No Message	C6	7.03	7.03	ENVOL	5.62	5.62
N+6.12	B60	160	30	V40X60	No Message	ENVOL	7.37	7.37	C6	3.86	3.86
N+6.12	B60	160	370	V40X60	No Message	C6	1.91	1.91	C6	1.91	1.91
N+6.12	B60	160	710	V40X60	No Message	ENVOL	5.36	5.36	C6	4.36	4.36
N+6.12	B61	163	30	V40X60	No Message	ENVOL	6.29	6.29	ENVOL	3.11	3.11
N+6.12	B61	163	370	V40X60	No Message	ENVOL	1.54	1.54	ENVOL	1.54	1.54
N+6.12	B61	163	710	V40X60	No Message	ENVOL	5.52	5.52	ENVOL	2.73	2.73
N+6.12	B62	166	30	V40X60	No Message	ENVOL	0.14	0.14	ENVOL	0.12	0.12
N+6.12	B62	166	116.667	V40X60	No Message	ENVOL	1.97	1.97	ENVOL	1.97	1.97
N+6.12	B62	166	116.667	V40X60	No Message	ENVOL	1.97	1.97	ENVOL	1.97	1.97
N+6.12	B62	166	233.333	V40X60	No Message	ENVOL	1.97	1.97	ENVOL	1.97	1.97
N+6.12	B62	166	233.333	V40X60	No Message	ENVOL	1.97	1.97	ENVOL	1.97	1.97
N+6.12	B62	166	350	V40X60	No Message	ENVOL	1.97	1.97	ENVOL	1.97	1.97
N+6.12	B62	166	350	V40X60	No Message	ENVOL	7.37	9.74	ENVOL	5.99	5.99
N+6.12	B62	166	370	V40X60	No Message	ENVOL	7.37	8.68	ENVOL	5.43	5.43
N+6.12	B62	166	710	V40X60	No Message	ENVOL	5.84	5.84	ENVOL	7.37	7.37
N+6.12	B80	182	0	V50X60	No Message	C6	0.03	0.03	C6	0.02	0.02
N+6.12	B80	182	87.5	V50X60	No Message	ENVOL	2.48	2.48	ENVOL	2.19	2.19
N+6.12	B80	182	175	V50X60	No Message	ENVOL	8.95	8.95	ENVOL	4.41	4.41
N+6.12	B82	141	30	V50X60	No Message	ENVOL	9.21	23.04	ENVOL	9.21	10.89
N+6.12	B82	141	362.5	V50X60	No Message	ENVOL	7.82	7.82	C2	9.21	24.4
N+6.12	B82	141	695	V50X60	No Message	ENVOL	9.21	25.69	ENVOL	9.21	12.06
N+6.12	B83	142	30	V50X60	No Message	C6	9.21	16.72	ENVOL	9.21	9.21
N+6.12	B83	142	287.5	V50X60	No Message	C6	5.26	5.26	C2	9.21	12.78
N+6.12	B83	142	545	V50X60	No Message	C6	9.21	15.86	ENVOL	9.21	9.21
N+6.12	B84	143	30	V50X60	No Message	ENVOL	9.21	29.51	ENVOL	9.21	13.7
N+6.12	B84	143	420	V50X60	No Message	ENVOL	9.21	9.21	C2	9.21	27.46
N+6.12	B84	143	810	V50X60	No Message	ENVOL	9.21	31.78	ENVOL	9.21	14.65
N+6.12	B85	144	30	V50X60	No Message	ENVOL	9.21	13.31	ENVOL	8.6	8.6
N+6.12	B85	144	240	V50X60	No Message	ENVOL	4.24	4.24	C2	9.21	9.21
N+6.12	B85	144	450	V50X60	No Message	ENVOL	0	0	ENVOL	0	0

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+6.12	B86	169	0	V60X140	No Message	ENVOL	4.65	4.65	ENVOL	2.32	2.32
N+6.12	B86	169	70	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	12.96	12.96
N+6.12	B86	169	70	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	12.96	12.96
N+6.12	B86	169	140	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	12.96	12.96
N+6.12	B86	169	140	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	12.96	12.96
N+6.12	B86	169	210	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	12.96	12.96
N+6.12	B86	169	210	V60X140	No Message	ENVOL	26.11	42.45	ENVOL	12.96	12.96
N+6.12	B86	169	600	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	26.11	26.11
N+6.12	B86	169	600	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	26.11	26.11
N+6.12	B86	169	935	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	13.66	13.66
N+6.12	B86	169	935	V60X140	No Message	ENVOL	12.96	12.96	ENVOL	13.66	13.66
N+6.12	B86	169	1200	V60X140	No Message	ENVOL	26.11	40.81	ENVOL	26.11	26.11
N+6.12	B88	316	0	V50X60	No Message	ENVOL	9.21	63.08	ENVOL	9.21	31.69
N+6.12	B88	316	336.667	V50X60	No Message	ENVOL	9.21	14.61	C2	9.21	20.25
N+6.12	B88	316	673.333	V50X60	No Message	ENVOL	3.39	3.39	ENVOL	1.68	1.68
N+6.12	B90	319	7.5	V40X100	No Message	ENVOL	12.05	41.17	ENVOL	12.05	19
N+6.12	B90	319	740	V40X100	No Message	C2	12.05	32.9	C2	12.05	80.27
N+6.12	B90	319	740	V40X100	No Message	C2	12.05	32.85	C2	12.05	80.22
N+6.12	B90	319	743.75	V40X100	No Message	C2	12.05	32.39	C2	12.05	79.79
N+6.12	B90	319	1480	V40X100	No Message	ENVOL	12.05	29.35	ENVOL	12.05	13.9
N+6.12	B92	317	0	V50X60	No Message	ENVOL	9.21	9.75	ENVOL	6.36	6.36
N+6.12	B92	317	336.667	V50X60	No Message	ENVOL	3.6	3.6	C2	9.21	36.2
N+6.12	B92	317	673.334	V50X60	No Message	ENVOL	9.21	11.2	ENVOL	7.28	7.28
N+6.12	B94	322	0	V40X100	No Message	ENVOL	12.05	33.43	ENVOL	12.05	15.69
N+6.12	B94	322	736.25	V40X100	No Message	C2	12.05	39.63	C2	12.05	86.72
N+6.12	B94	322	740	V40X100	No Message	C2	12.05	40.14	C2	12.05	87.2
N+6.12	B94	322	740	V40X100	No Message	C2	12.05	40.06	C2	12.05	87.13
N+6.12	B94	322	1472.5	V40X100	No Message	ENVOL	12.05	46.34	ENVOL	12.05	21.12
N+6.12	B96	318	0	V50X60	No Message	ENVOL	8.49	8.49	ENVOL	4.18	4.18
N+6.12	B96	318	336.667	V50X60	No Message	ENVOL	9.21	9.21	C2	9.21	27.06
N+6.12	B96	318	673.333	V50X60	No Message	ENVOL	9.21	39.78	ENVOL	9.21	18.23
N+6.12	B98	258	0	V40X140	No Message	ENVOL	18.08	43.58	ENVOL	18.08	20.65
N+6.12	B98	258	600	V40X140	No Message	ENVOL	13.44	13.44	C2	18.08	24.19
N+6.12	B98	258	600	V40X140	No Message	ENVOL	13.44	13.44	C2	18.08	24.13
N+6.12	B98	258	1200	V40X140	No Message	ENVOL	18.08	35.93	ENVOL	18.08	18.08
N+6.12	B115	184	0	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B115	184	370	V15X60	No Message	ENVOL	0	0	ENVOL	1.35	1.35
N+6.12	B115	184	740	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B118	183	30	V40X60	No Message	C6	7.37	7.37	ENVOL	5.35	5.35
N+6.12	B118	183	370	V40X60	No Message	C6	2.18	2.18	C6	2.18	2.18
N+6.12	B118	183	710	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	5.1	5.1
N+6.12	B119	161	30	V40X60	No Message	C6	5.61	5.61	ENVOL	4.01	4.01
N+6.12	B119	161	370	V40X60	No Message	C6	1.91	1.91	C6	1.91	1.91
N+6.12	B119	161	710	V40X60	No Message	ENVOL	7.37	7.37	C6	3.84	3.84
N+6.12	B120	164	30	V40X60	No Message	ENVOL	7.37	10.7	ENVOL	6.92	6.92
N+6.12	B120	164	370	V40X60	No Message	ENVOL	5.36	5.36	C2	7.37	11.53
N+6.12	B120	164	485	V40X60	No Message	ENVOL	5.36	5.36	C2	7.37	17.06
N+6.12	B120	164	485	V40X60	No Message	ENVOL	5.36	5.36	C2	7.37	17.13
N+6.12	B120	164	710	V40X60	No Message	ENVOL	7.37	17.33	ENVOL	7.37	8.23
N+6.12	B121	167	30	V40X60	No Message	ENVOL	7.37	9.39	ENVOL	6.1	6.1
N+6.12	B121	167	370	V40X60	No Message	ENVOL	4.7	4.7	C2	7.37	10.83
N+6.12	B121	167	485	V40X60	No Message	ENVOL	4.7	4.7	C2	7.37	15.93
N+6.12	B121	167	485	V40X60	No Message	ENVOL	4.7	4.7	C2	7.37	15.85

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+6.12	B121	167	710	V40X60	No Message	ENVOL	7.37	15.05	ENVOL	7.37	7.37
N+6.12	B124	178	0	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B124	178	110	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	17.22
N+6.12	B124	178	110	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	11.05
N+6.12	B124	178	420	V40X60	No Message	ENVOL	0	4.44	ENVOL	7.37	34.06
N+6.12	B124	178	470	V40X60	No Message	ENVOL	0	5.29	ENVOL	7.37	34.87
N+6.12	B124	178	470	V40X60	No Message	ENVOL	0	6.23	ENVOL	7.37	35.77
N+6.12	B124	178	840	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B131	179	0	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B131	179	127.5	V30X60	No Message	ENVOL	0	0	ENVOL	2.03	2.03
N+6.12	B131	179	255	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B132	180	0	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B132	180	127.5	V30X60	No Message	ENVOL	0	0	ENVOL	2.03	2.03
N+6.12	B132	180	255	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+6.12	B133	171	0	V60X140	No Message	ENVOL	3.75	3.75	ENVOL	1.87	1.87
N+6.12	B133	171	70	V60X140	No Message	ENVOL	2.65	2.65	ENVOL	0.93	0.93
N+6.12	B133	171	140	V60X140	No Message	ENVOL	1.88	1.88	ENVOL	0.94	0.94
N+6.12	B134	173	0	V40X140	No Message	ENVOL	2.58	2.58	ENVOL	1.29	1.29
N+6.12	B134	173	70	V40X140	No Message	ENVOL	1.78	1.78	ENVOL	0.64	0.64
N+6.12	B134	173	140	V40X140	No Message	ENVOL	1.19	1.19	ENVOL	0.59	0.59
N+6.12	B135	181	0	V50X60	No Message	ENVOL	0	0	C6	0.03	0.03
N+6.12	B135	181	87.5	V50X60	No Message	ENVOL	2.43	2.43	ENVOL	2.18	2.18
N+6.12	B135	181	175	V50X60	No Message	ENVOL	8.9	8.9	ENVOL	4.38	4.38
N+6.12	B137	150	30	V50X60	No Message	C6	9.21	14.28	C6	9.21	9.21
N+6.12	B137	150	362.5	V50X60	No Message	C6	4.54	4.54	C2	9.21	11.88
N+6.12	B137	150	695	V50X60	No Message	C6	9.21	14.3	C6	9.21	9.21
N+6.12	B138	151	30	V50X60	No Message	C6	9.21	11.72	C6	7.61	7.61
N+6.12	B138	151	287.5	V50X60	No Message	C6	3.76	3.76	C2	8.93	8.93
N+6.12	B138	151	545	V50X60	No Message	C6	9.21	9.34	C6	6.1	6.1
N+6.12	B139	152	30	V50X60	No Message	C6	9.21	12.21	C6	7.92	7.92
N+6.12	B139	152	110	V50X60	No Message	ENVOL	9.21	9.21	C6	3.91	3.91
N+6.12	B139	152	110	V50X60	No Message	C6	3.91	3.91	C6	3.91	3.91
N+6.12	B139	152	420	V50X60	No Message	C6	3.91	3.91	C2	9.21	9.21
N+6.12	B139	152	470	V50X60	No Message	C6	3.91	3.91	C2	9.21	9.21
N+6.12	B139	152	470	V50X60	No Message	C6	3.91	3.91	C2	9.21	9.21
N+6.12	B139	152	810	V50X60	No Message	C6	9.21	10.3	C6	6.71	6.71
N+6.12	B140	153	30	V50X60	No Message	ENVOL	9.21	9.21	C6	5.03	5.03
N+6.12	B140	153	240	V50X60	No Message	C6	5.64	5.64	C2	6.62	6.62
N+6.12	B140	153	450	V50X60	No Message	C6	9.21	18	ENVOL	9.21	9.21
N+6.12	B141	154	0	V60X140	No Message	ENVOL	4.4	4.4	ENVOL	2.2	2.2
N+6.12	B141	154	70	V60X140	No Message	ENVOL	7.79	7.79	ENVOL	3.16	3.16
N+6.12	B141	154	140	V60X140	No Message	ENVOL	12.76	12.76	ENVOL	6.34	6.34
N+6.12	B143	155	0	V60X140	No Message	ENVOL	26.11	146.74	ENVOL	26.11	70.97
N+6.12	B143	155	533.333	V60X140	No Message	ENVOL	26.11	33.36	C2	26.11	92.77
N+6.12	B143	155	533.333	V60X140	No Message	ENVOL	26.11	33.36	C2	26.11	93.2
N+6.12	B143	155	870	V60X140	No Message	ENVOL	26.11	33.36	C2	26.11	110.47
N+6.12	B143	155	1206.667	V60X140	No Message	ENVOL	26.11	33.36	C2	26.11	96.43
N+6.12	B143	155	1206.667	V60X140	No Message	ENVOL	26.11	33.36	C2	26.11	96.65
N+6.12	B143	155	1740	V60X140	No Message	ENVOL	26.11	143.88	ENVOL	26.11	69.29
N+6.12	B145	156	0	V60X140	No Message	ENVOL	12.46	12.46	ENVOL	6.19	6.19
N+6.12	B145	156	70	V60X140	No Message	ENVOL	7.5	7.5	ENVOL	3.08	3.08
N+6.12	B145	156	140	V60X140	No Message	ENVOL	4.12	4.12	ENVOL	2.05	2.05

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm²	As Top cm²	As Bottom Combo	As,min Bottom cm²	As Bottom cm²
N+6.12	B146	172	0	V60X60	No Message	ENVOL	11.05	22.86	ENVOL	11.05	11.05
N+6.12	B146	172	108.75	V60X60	No Message	ENVOL	11.05	11.05	ENVOL	7.14	7.14
N+6.12	B146	172	217.5	V60X60	No Message	ENVOL	0.74	0.74	ENVOL	0.37	0.37
N+6.12	B152	320	7.5	V40X60	No Message	ENVOL	7.37	35.27	ENVOL	7.37	16.46
N+6.12	B152	320	112.5	V40X60	No Message	ENVOL	7.37	16.91	ENVOL	7.37	7.83
N+6.12	B152	320	217.5	V40X60	No Message	ENVOL	1.49	1.49	ENVOL	0.74	0.74
N+6.12	B160	323	7.5	V40X60	No Message	ENVOL	7.37	36.11	ENVOL	7.37	16.93
N+6.12	B160	323	112.5	V40X60	No Message	ENVOL	7.37	17.4	ENVOL	7.37	8.04
N+6.12	B160	323	217.5	V40X60	No Message	ENVOL	1.54	1.54	ENVOL	0.77	0.77
N+6.12	B165	174	0	V40X60	No Message	ENVOL	7.37	12.28	ENVOL	7.37	7.37
N+6.12	B165	174	108.75	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	3.89	3.89
N+6.12	B165	174	217.5	V40X60	No Message	ENVOL	0.34	0.34	ENVOL	0.17	0.17
N+6.12	B168	325	7.5	V15X60	No Message	ENVOL	2.76	4.06	ENVOL	2.63	2.63
N+6.12	B168	325	336.667	V15X60	No Message	ENVOL	1.51	1.51	C2	2.76	3.11
N+6.12	B168	325	665.833	V15X60	No Message	ENVOL	2.76	4.79	ENVOL	2.76	2.76
N+6.12	B173	326	7.5	V15X60	No Message	ENVOL	2.76	2.76	C6	1.55	1.55
N+6.12	B173	326	336.667	V15X60	No Message	ENVOL	0.88	0.88	C2	2.76	4.22
N+6.12	B173	326	665.834	V15X60	No Message	ENVOL	2.76	2.76	ENVOL	1.79	1.79
N+6.12	B176	327	7.5	V15X60	No Message	ENVOL	2.76	5.22	ENVOL	2.76	2.76
N+6.12	B176	327	336.667	V15X60	No Message	ENVOL	1.64	1.64	C2	2.76	3.39
N+6.12	B176	327	665.833	V15X60	No Message	ENVOL	2.76	2.76	ENVOL	1.74	1.74
N+3.06	B2	347	0	V15X60	No Message	C6	0.13	0.13	C6	0.06	0.06
N+3.06	B2	347	72.5	V15X60	No Message	C6	0.66	0.66	C6	0.4	0.4
N+3.06	B2	347	145	V15X60	No Message	C6	1.61	1.61	C6	0.8	0.8
N+3.06	B3	103	0	V15X60	No Message	C6	2.75	2.75	C6	1.36	1.36
N+3.06	B3	103	362.5	V15X60	No Message	C6	0.7	0.7	C2	2	2
N+3.06	B3	103	725	V15X60	No Message	C6	2.76	2.76	C6	1.4	1.4
N+3.06	B4	104	0	V15X60	No Message	C6	2.08	2.08	C6	1.03	1.03
N+3.06	B4	104	287.5	V15X60	No Message	C6	0.63	0.63	C2	0.72	0.72
N+3.06	B4	104	575	V15X60	No Message	C6	2.58	2.58	C6	1.27	1.27
N+3.06	B5	105	0	V15X60	No Message	ENVOL	2.76	2.76	C6	1.78	1.78
N+3.06	B5	105	420	V15X60	No Message	C6	0.88	0.88	C2	2.76	2.76
N+3.06	B5	105	840	V15X60	No Message	ENVOL	2.76	2.76	C6	1.69	1.69
N+3.06	B18	348	0	V15X60	No Message	C6	0.13	0.13	C6	0.07	0.07
N+3.06	B18	348	52.5	V15X60	No Message	ENVOL	0.18	0.18	C6	0.26	0.26
N+3.06	B18	348	105	V15X60	No Message	ENVOL	0.31	0.31	C6	0.53	0.53
N+3.06	B19	92	0	V40X60	No Message	ENVOL	0	0	C6	0.14	0.14
N+3.06	B19	92	37.5	V40X60	No Message	C6	1.37	1.37	C6	0.71	0.71
N+3.06	B19	92	75	V40X60	No Message	C6	2.88	2.88	C6	1.43	1.43
N+3.06	B20	94	0	V40X60	No Message	ENVOL	0.002058	0.002058	C6	0.004018	0.004018
N+3.06	B20	94	37.5	V40X60	No Message	ENVOL	1.55	1.55	ENVOL	0.79	0.79
N+3.06	B20	94	75	V40X60	No Message	ENVOL	3.19	3.19	ENVOL	1.59	1.59
N+3.06	B21	97	0	V40X60	No Message	ENVOL	0	0	ENVOL	0.01	0.01
N+3.06	B21	97	37.5	V40X60	No Message	ENVOL	1.75	1.75	ENVOL	0.89	0.89
N+3.06	B21	97	75	V40X60	No Message	ENVOL	3.59	3.59	ENVOL	1.78	1.78
N+3.06	B22	100	0	V40X60	No Message	C6	0.02	0.02	C6	0.01	0.01
N+3.06	B22	100	37.5	V40X60	No Message	ENVOL	1.03	1.03	ENVOL	0.53	0.53
N+3.06	B22	100	75	V40X60	No Message	ENVOL	2.12	2.12	ENVOL	1.05	1.05
N+3.06	B33	350	0	V50X60	No Message	ENVOL	0	0	C6	0.12	0.12
N+3.06	B33	350	57.5	V50X60	No Message	C6	1.25	1.25	C6	0.98	0.98
N+3.06	B33	350	115	V50X60	No Message	C6	3.97	3.97	C6	1.97	1.97
N+3.06	B34	86	30	V50X60	No Message	C6	9.21	12.09	C6	7.84	7.84
N+3.06	B34	86	362.5	V50X60	No Message	C6	3.87	3.87	ENVOL	9.21	9.21

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+3.06	B34	86	695	V50X60	No Message	C6	9.21	11.96	C6	7.76	7.76
N+3.06	B35	87	30	V50X60	No Message	ENVOL	9.21	9.21	C6	5.19	5.19
N+3.06	B35	87	287.5	V50X60	No Message	C6	2.8	2.8	C2	6.55	6.55
N+3.06	B35	87	545	V50X60	No Message	ENVOL	9.21	9.21	C6	5.65	5.65
N+3.06	B36	88	30	V50X60	No Message	C6	9.21	15.29	ENVOL	9.21	9.21
N+3.06	B36	88	420	V50X60	No Message	C6	5.6	5.6	C2	9.21	12.06
N+3.06	B36	88	810	V50X60	No Message	C6	9.21	17.86	ENVOL	9.21	9.21
N+3.06	B37	253	30	V50X60	No Message	C6	1.14	1.14	C6	0.57	0.57
N+3.06	B37	253	150	V50X60	No Message	ENVOL	0.83	0.83	C6	0.65	0.65
N+3.06	B37	253	150	V50X60	No Message	C6	1.25	1.25	C6	0.65	0.65
N+3.06	B37	253	240	V50X60	No Message	C6	0.65	0.65	C6	0.65	0.65
N+3.06	B37	253	300	V50X60	No Message	C6	0.94	0.94	ENVOL	0.86	0.86
N+3.06	B37	253	300	V50X60	No Message	C6	1.12	1.12	C6	0.65	0.65
N+3.06	B37	253	450	V50X60	No Message	ENVOL	1.62	1.62	C6	2.63	2.63
N+3.06	B43	256	0	V40X60	No Message	ENVOL	0.58	0.58	ENVOL	0.29	0.29
N+3.06	B43	256	70	V40X60	No Message	ENVOL	0.14	0.14	C2	0.32	0.32
N+3.06	B43	256	140	V40X60	No Message	ENVOL	0.49	0.49	ENVOL	0.24	0.24
N+3.06	B47	257	0	V40X60	No Message	ENVOL	0.56	0.56	ENVOL	0.28	0.28
N+3.06	B47	257	70	V40X60	No Message	ENVOL	0.23	0.23	ENVOL	0.14	0.14
N+3.06	B47	257	70	V40X60	No Message	ENVOL	0.16	0.16	ENVOL	0.14	0.14
N+3.06	B47	257	105	V40X60	No Message	ENVOL	0.15	0.15	ENVOL	0.26	0.26
N+3.06	B47	257	140	V40X60	No Message	ENVOL	0.35	0.35	ENVOL	0.28	0.28
N+3.06	B47	257	140	V40X60	No Message	ENVOL	0.26	0.26	ENVOL	0.14	0.14
N+3.06	B47	257	210	V40X60	No Message	ENVOL	0.2	0.2	ENVOL	0.1	0.1
N+3.06	B55	254	0	V30X60	No Message	ENVOL	0.09	0.09	ENVOL	0.06	0.06
N+3.06	B55	254	83.333	V30X60	No Message	ENVOL	0.29	0.29	ENVOL	0.19	0.19
N+3.06	B55	254	83.333	V30X60	No Message	ENVOL	0.19	0.19	ENVOL	0.1	0.1
N+3.06	B55	254	125	V30X60	No Message	ENVOL	0.2	0.2	ENVOL	0.15	0.15
N+3.06	B55	254	166.667	V30X60	No Message	ENVOL	0.28	0.28	ENVOL	0.16	0.16
N+3.06	B55	254	166.667	V30X60	No Message	ENVOL	0.21	0.21	ENVOL	0.11	0.11
N+3.06	B55	254	250	V30X60	No Message	ENVOL	0.15	0.15	ENVOL	0.08	0.08
N+3.06	B56	255	0	V30X60	No Message	ENVOL	5.52	6.41	ENVOL	5.17	5.17
N+3.06	B56	255	100	V30X60	No Message	ENVOL	2.06	2.06	ENVOL	2.06	2.06
N+3.06	B56	255	200	V30X60	No Message	ENVOL	1.99	1.99	ENVOL	4.84	4.84
N+3.06	B58	349	0	V15X60	No Message	C6	2.54	2.54	C6	1.25	1.25
N+3.06	B58	349	370	V15X60	No Message	C6	0.62	0.62	C6	0.62	0.62
N+3.06	B58	349	740	V15X60	No Message	C6	1.93	1.93	C6	0.96	0.96
N+3.06	B59	93	30	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	4.62	4.62
N+3.06	B59	93	370	V40X60	No Message	C6	2.24	2.24	C6	2.24	2.24
N+3.06	B59	93	710	V40X60	No Message	C6	6.87	6.87	ENVOL	5.41	5.41
N+3.06	B60	95	30	V40X60	No Message	ENVOL	7.37	7.37	C6	3.91	3.91
N+3.06	B60	95	370	V40X60	No Message	C6	1.94	1.94	C6	1.94	1.94
N+3.06	B60	95	710	V40X60	No Message	C6	5.63	5.63	ENVOL	4.17	4.17
N+3.06	B61	98	30	V40X60	No Message	ENVOL	6.69	6.69	ENVOL	3.3	3.3
N+3.06	B61	98	370	V40X60	No Message	ENVOL	1.64	1.64	ENVOL	1.64	1.64
N+3.06	B61	98	710	V40X60	No Message	ENVOL	5.17	5.17	ENVOL	2.85	2.85
N+3.06	B62	101	30	V40X60	No Message	ENVOL	0.32	0.32	ENVOL	0.35	0.35
N+3.06	B62	101	116.667	V40X60	No Message	ENVOL	1.74	1.74	ENVOL	1.74	1.74
N+3.06	B62	101	116.667	V40X60	No Message	ENVOL	1.74	1.74	ENVOL	1.74	1.74
N+3.06	B62	101	233.333	V40X60	No Message	ENVOL	1.74	1.74	ENVOL	1.74	1.74
N+3.06	B62	101	233.333	V40X60	No Message	ENVOL	1.74	1.74	ENVOL	1.74	1.74
N+3.06	B62	101	350	V40X60	No Message	ENVOL	1.74	1.74	ENVOL	1.74	1.74
N+3.06	B62	101	350	V40X60	No Message	ENVOL	7.37	8.41	ENVOL	5.81	5.81

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+3.06	B62	101	370	V40X60	No Message	ENVOL	7.37	7.48	ENVOL	5.25	5.25
N+3.06	B62	101	710	V40X60	No Message	ENVOL	6.16	6.16	ENVOL	7.1	7.1
N+3.06	B81	111	0	V50X60	No Message	ENVOL	0	0	C6	0.01	0.01
N+3.06	B81	111	57.5	V50X60	No Message	ENVOL	1.91	1.91	ENVOL	1.53	1.53
N+3.06	B81	111	115	V50X60	No Message	ENVOL	6.2	6.2	ENVOL	3.07	3.07
N+3.06	B82	83	30	V50X60	No Message	C6	9.21	20.16	C6	9.21	9.6
N+3.06	B82	83	362.5	V50X60	No Message	C6	6.27	6.27	C2	9.21	15.22
N+3.06	B82	83	695	V50X60	No Message	C6	9.21	19.71	C6	9.21	9.4
N+3.06	B83	84	30	V50X60	No Message	C6	9.21	13.07	C6	8.45	8.45
N+3.06	B83	84	287.5	V50X60	No Message	C6	4.17	4.17	ENVOL	9.21	9.21
N+3.06	B83	84	545	V50X60	No Message	C6	9.21	13.08	C6	8.46	8.46
N+3.06	B84	85	30	V50X60	No Message	C6	9.21	23.41	C6	9.21	11.06
N+3.06	B84	85	420	V50X60	No Message	C6	7.19	7.19	C2	9.21	17.82
N+3.06	B84	85	810	V50X60	No Message	C6	9.21	21.79	C6	9.21	10.34
N+3.06	B99	340	0	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	4.02	4.02
N+3.06	B99	340	495	V40X60	No Message	ENVOL	3.14	3.14	C2	4.19	4.19
N+3.06	B99	340	725	V40X60	No Message	ENVOL	3.14	3.14	C2	4.33	4.33
N+3.06	B99	340	725	V40X60	No Message	ENVOL	3.14	3.14	C2	5.47	5.47
N+3.06	B99	340	990	V40X60	No Message	ENVOL	7.37	9.81	ENVOL	6.36	6.36
N+3.06	B109	339	0	V40X60	No Message	C6	1.16	1.16	C6	0.58	0.58
N+3.06	B109	339	225	V40X60	No Message	C6	0.78	0.78	ENVOL	4.28	4.28
N+3.06	B109	339	450	V40X60	No Message	C6	3.14	3.14	C6	1.56	1.56
N+3.06	B117	112	0	V15X60	No Message	C6	1.95	1.95	C6	0.96	0.96
N+3.06	B117	112	370	V15X60	No Message	C6	0.5	0.5	C6	0.64	0.64
N+3.06	B117	112	740	V15X60	No Message	C6	2.05	2.05	ENVOL	1.07	1.07
N+3.06	B118	109	30	V40X60	No Message	C6	7.37	7.37	ENVOL	4.78	4.78
N+3.06	B118	109	370	V40X60	No Message	C6	1.87	1.87	C6	1.87	1.87
N+3.06	B118	109	710	V40X60	No Message	C6	7.37	7.37	ENVOL	5.09	5.09
N+3.06	B119	96	30	V40X60	No Message	C6	5.87	5.87	ENVOL	3.8	3.8
N+3.06	B119	96	370	V40X60	No Message	C6	1.68	1.68	C6	1.68	1.68
N+3.06	B119	96	710	V40X60	No Message	C6	6.87	6.87	ENVOL	3.7	3.7
N+3.06	B120	99	30	V40X60	No Message	ENVOL	7.37	9.76	ENVOL	6.33	6.33
N+3.06	B120	99	370	V40X60	No Message	ENVOL	4.75	4.75	C2	7.37	7.99
N+3.06	B120	99	485	V40X60	No Message	ENVOL	4.75	4.75	C2	7.37	12.11
N+3.06	B120	99	485	V40X60	No Message	ENVOL	4.75	4.75	C2	7.37	12.02
N+3.06	B120	99	710	V40X60	No Message	ENVOL	7.37	15.23	ENVOL	7.37	7.37
N+3.06	B121	102	30	V40X60	No Message	ENVOL	7.37	11.34	ENVOL	7.32	7.32
N+3.06	B121	102	335	V40X60	No Message	ENVOL	4.87	4.87	C2	7.37	10.42
N+3.06	B121	102	335	V40X60	No Message	ENVOL	4.87	4.87	C2	7.37	9.51
N+3.06	B121	102	370	V40X60	No Message	ENVOL	4.87	4.87	C2	7.37	10.24
N+3.06	B121	102	485	V40X60	No Message	ENVOL	4.87	4.87	C2	7.37	12.38
N+3.06	B121	102	485	V40X60	No Message	ENVOL	4.87	4.87	C2	7.37	12.46
N+3.06	B121	102	710	V40X60	No Message	ENVOL	7.37	15.61	ENVOL	7.37	7.45
N+3.06	B124	106	0	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N+3.06	B124	106	110	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	12.98
N+3.06	B124	106	110	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	8.4
N+3.06	B124	106	420	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	25.92
N+3.06	B124	106	470	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	26.7
N+3.06	B124	106	470	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	27.51
N+3.06	B124	106	840	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N+3.06	B131	107	0	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+3.06	B131	107	127.5	V30X60	No Message	ENVOL	0	0	ENVOL	1.57	1.57
N+3.06	B131	107	255	V30X60	No Message	ENVOL	0	0	ENVOL	0	0

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N+3.06	B132	108	0	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+3.06	B132	108	127.5	V30X60	No Message	ENVOL	0	0	ENVOL	1.57	1.57
N+3.06	B132	108	255	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N+3.06	B133	315	0	V40X60	No Message	C6	0.23	0.23	C6	0.11	0.11
N+3.06	B133	315	70	V40X60	No Message	ENVOL	0.08	0.08	C6	0.06	0.06
N+3.06	B133	315	140	V40X60	No Message	C6	0.23	0.23	C6	0.11	0.11
N+3.06	B136	110	0	V50X60	No Message	C6	0.01	0.01	C6	0.01	0.01
N+3.06	B136	110	57.5	V50X60	No Message	C6	1.14	1.14	C6	0.86	0.86
N+3.06	B136	110	115	V50X60	No Message	C6	3.47	3.47	C6	1.73	1.73
N+3.06	B137	89	30	V50X60	No Message	C6	9.21	12.65	C6	8.19	8.19
N+3.06	B137	89	362.5	V50X60	No Message	C6	4.04	4.04	C2	9.21	9.21
N+3.06	B137	89	695	V50X60	No Message	C6	9.21	12.18	C6	7.9	7.9
N+3.06	B138	90	30	V50X60	No Message	C6	9.21	9.83	C6	6.41	6.41
N+3.06	B138	90	287.5	V50X60	No Message	C6	3.17	3.17	C2	6	6
N+3.06	B138	90	545	V50X60	No Message	ENVOL	9.21	9.21	C6	5.6	5.6
N+3.06	B139	91	30	V50X60	No Message	C6	9.21	10.83	C6	7.05	7.05
N+3.06	B139	91	110	V50X60	No Message	C6	8.63	8.63	C6	3.48	3.48
N+3.06	B139	91	110	V50X60	No Message	C6	3.48	3.48	C6	3.48	3.48
N+3.06	B139	91	420	V50X60	No Message	C6	3.48	3.48	C2	7.29	7.29
N+3.06	B139	91	470	V50X60	No Message	C6	3.48	3.48	C2	7.85	7.85
N+3.06	B139	91	470	V50X60	No Message	C6	3.48	3.48	C2	7.08	7.08
N+3.06	B139	91	810	V50X60	No Message	ENVOL	9.21	9.21	C6	5.78	5.78
N+3.06	B140	116	30	V50X60	No Message	ENVOL	9.21	9.21	C6	5.29	5.29
N+3.06	B140	116	240	V50X60	No Message	C6	3.31	3.31	C6	3.93	3.93
N+3.06	B140	116	450	V50X60	No Message	C6	9.21	10.27	C6	6.69	6.69
N+3.06	B146	113	0	V40X60	No Message	ENVOL	7.37	14.48	ENVOL	7.37	7.37
N+3.06	B146	113	112.5	V40X60	No Message	ENVOL	7.37	7.37	ENVOL	4.54	4.54
N+3.06	B146	113	225	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B1	344	0	V40X60	No Message	C6	0.39	0.39	C6	0.2	0.2
N-0.05	B1	344	102.5	V40X60	No Message	C6	0.1	0.1	ENVOL	0.26	0.26
N-0.05	B1	344	205	V40X60	No Message	ENVOL	0.27	0.27	ENVOL	0.14	0.14
N-0.05	B3	60	0	V40X60	No Message	ENVOL	0.26	0.26	C6	0.31	0.31
N-0.05	B3	60	165	V40X60	No Message	C6	0.47	0.47	C6	0.17	0.17
N-0.05	B3	60	165	V40X60	No Message	C6	0.8	0.8	C6	0.17	0.17
N-0.05	B3	60	362.5	V40X60	No Message	C6	0.17	0.17	C6	0.17	0.17
N-0.05	B3	60	445	V40X60	No Message	C6	0.82	0.82	C6	0.17	0.17
N-0.05	B3	60	445	V40X60	No Message	C6	0.89	0.89	C6	0.17	0.17
N-0.05	B3	60	725	V40X60	No Message	C6	0.68	0.68	C6	0.34	0.34
N-0.05	B4	61	0	V40X60	No Message	C6	0.72	0.72	C6	0.36	0.36
N-0.05	B4	61	287.5	V40X60	No Message	C6	0.96	0.96	C6	0.18	0.18
N-0.05	B4	61	287.5	V40X60	No Message	C6	0.97	0.97	C6	0.18	0.18
N-0.05	B4	61	575	V40X60	No Message	C6	0.72	0.72	C6	0.36	0.36
N-0.05	B5	62	0	V40X60	No Message	C6	0.64	0.64	C6	0.32	0.32
N-0.05	B5	62	280	V40X60	No Message	C6	0.85	0.85	C6	0.24	0.24
N-0.05	B5	62	280	V40X60	No Message	C6	0.78	0.78	C6	0.24	0.24
N-0.05	B5	62	420	V40X60	No Message	C6	0.24	0.24	C2	0.33	0.33
N-0.05	B5	62	560	V40X60	No Message	C6	0.69	0.69	C6	0.24	0.24
N-0.05	B5	62	560	V40X60	No Message	C6	0.85	0.85	C6	0.24	0.24
N-0.05	B5	62	840	V40X60	No Message	C6	0.97	0.97	C6	0.49	0.49
N-0.05	B6	63	0	V40X60	No Message	C6	1.64	1.64	C6	0.82	0.82
N-0.05	B6	63	225	V40X60	No Message	C6	0.41	0.41	C2	0.9	0.9
N-0.05	B6	63	450	V40X60	No Message	C6	1.65	1.65	C6	0.82	0.82
N-0.05	B10	64	0	V40X60	No Message	C6	1.18	1.18	C6	0.59	0.59

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N-0.05	B10	64	331	V40X60	No Message	C6	1.06	1.06	C6	0.29	0.29
N-0.05	B10	64	331	V40X60	No Message	C6	0.94	0.94	C6	0.29	0.29
N-0.05	B10	64	496.5	V40X60	No Message	C6	0.29	0.29	C2	0.6	0.6
N-0.05	B10	64	662	V40X60	No Message	C6	0.94	0.94	C6	0.29	0.29
N-0.05	B10	64	662	V40X60	No Message	C6	0.97	0.97	C6	0.29	0.29
N-0.05	B10	64	993	V40X60	No Message	C6	1.05	1.05	C6	0.52	0.52
N-0.05	B13	250	0	V40X60	No Message	C6	1.09	1.09	C6	0.54	0.54
N-0.05	B13	250	342.333	V40X60	No Message	C6	1	1	C6	0.27	0.27
N-0.05	B13	250	342.333	V40X60	No Message	C6	1.02	1.02	C6	0.27	0.27
N-0.05	B13	250	513.5	V40X60	No Message	C6	0.27	0.27	C2	0.6	0.6
N-0.05	B13	250	684.667	V40X60	No Message	ENVOL	1.35	1.35	C6	0.27	0.27
N-0.05	B13	250	684.667	V40X60	No Message	ENVOL	1.45	1.45	C6	0.27	0.27
N-0.05	B13	250	1027	V40X60	No Message	C6	0.93	0.93	C6	0.46	0.46
N-0.05	B17	343	0	V40X60	No Message	ENVOL	0.1	0.1	ENVOL	0.09	0.09
N-0.05	B17	343	52.5	V40X60	No Message	ENVOL	0.15	0.15	C6	0.16	0.16
N-0.05	B17	343	105	V40X60	No Message	C6	0.38	0.38	C6	0.19	0.19
N-0.05	B19	36	0	V40X60	No Message	ENVOL	4.12	4.12	ENVOL	2.04	2.04
N-0.05	B19	36	37.5	V40X60	No Message	C6	2.19	2.19	C6	2.43	2.43
N-0.05	B19	36	75	V40X60	No Message	ENVOL	2.26	2.26	ENVOL	7.37	7.37
N-0.05	B20	38	0	V40X60	No Message	ENVOL	5.11	5.11	ENVOL	2.53	2.53
N-0.05	B20	38	37.5	V40X60	No Message	ENVOL	2.25	2.25	ENVOL	2.25	2.25
N-0.05	B20	38	75	V40X60	No Message	ENVOL	0.84	0.84	ENVOL	7.37	7.37
N-0.05	B21	41	0	V40X60	No Message	ENVOL	5.15	5.15	ENVOL	2.55	2.55
N-0.05	B21	41	37.5	V40X60	No Message	ENVOL	2.18	2.18	ENVOL	2.18	2.18
N-0.05	B21	41	75	V40X60	No Message	ENVOL	0.09	0.09	ENVOL	7.37	7.37
N-0.05	B22	44	0	V40X60	No Message	ENVOL	4.6	4.6	ENVOL	3.03	3.03
N-0.05	B22	44	37.5	V40X60	No Message	ENVOL	2.22	2.22	ENVOL	2.22	2.22
N-0.05	B22	44	75	V40X60	No Message	ENVOL	5.98	5.98	ENVOL	7.37	7.37
N-0.05	B23	49	0	V50X60	No Message	ENVOL	4.39	4.39	ENVOL	2.45	2.45
N-0.05	B23	49	52.5	V50X60	No Message	ENVOL	4.08	4.08	ENVOL	6.1	6.1
N-0.05	B23	49	105	V50X60	No Message	ENVOL	9.21	9.21	ENVOL	9.21	12.79
N-0.05	B27	53	0	V50X60	No Message	ENVOL	1.74	1.74	ENVOL	0.87	0.87
N-0.05	B27	53	37.5	V50X60	No Message	ENVOL	0.43	0.43	ENVOL	0.43	0.43
N-0.05	B27	53	75	V50X60	No Message	ENVOL	0.75	0.75	ENVOL	1.12	1.12
N-0.05	B31	247	0	V35X60	No Message	ENVOL	1.2	1.2	ENVOL	2.76	2.76
N-0.05	B31	247	52.5	V35X60	No Message	ENVOL	0.68	0.68	ENVOL	1.16	1.16
N-0.05	B31	247	105	V35X60	No Message	ENVOL	0.54	0.54	ENVOL	0.27	0.27
N-0.05	B32	345	0	V50X60	No Message	C6	2.68	2.68	C6	1.33	1.33
N-0.05	B32	345	87.5	V50X60	No Message	C6	0.67	0.67	C6	0.67	0.67
N-0.05	B32	345	175	V50X60	No Message	C6	2.64	2.64	C6	1.32	1.32
N-0.05	B34	22	30	V50X60	No Message	ENVOL	9.21	10.19	ENVOL	6.64	6.64
N-0.05	B34	22	362.5	V50X60	No Message	ENVOL	3.56	3.56	ENVOL	9.21	9.21
N-0.05	B34	22	695	V50X60	No Message	ENVOL	9.21	11.09	ENVOL	7.21	7.21
N-0.05	B35	23	30	V50X60	No Message	C6	9.21	9.21	C6	4.77	4.77
N-0.05	B35	23	287.5	V50X60	No Message	C6	2.49	2.49	C2	6.42	6.42
N-0.05	B35	23	545	V50X60	No Message	ENVOL	9.21	9.21	C6	5.02	5.02
N-0.05	B36	24	30	V50X60	No Message	ENVOL	9.21	14.76	ENVOL	9.21	9.21
N-0.05	B36	24	420	V50X60	No Message	ENVOL	5.29	5.29	C2	9.21	12.08
N-0.05	B36	24	810	V50X60	No Message	ENVOL	9.21	16.82	ENVOL	9.21	9.21
N-0.05	B37	25	30	V50X60	No Message	C6	0.86	0.86	C6	0.43	0.43
N-0.05	B37	25	150	V50X60	No Message	C6	0.5	0.5	C6	0.3	0.3
N-0.05	B37	25	150	V50X60	No Message	C6	0.78	0.78	C6	0.3	0.3
N-0.05	B37	25	240	V50X60	No Message	C6	0.3	0.3	C6	0.3	0.3

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N-0.05	B37	25	300	V50X60	No Message	C6	0.57	0.57	ENVOL	0.39	0.39
N-0.05	B37	25	300	V50X60	No Message	C6	0.57	0.57	C6	0.3	0.3
N-0.05	B37	25	450	V50X60	No Message	C6	1.22	1.22	ENVOL	0.77	0.77
N-0.05	B38	26	0	V50X60	No Message	C6	0.97	0.97	C6	0.49	0.49
N-0.05	B38	26	70	V50X60	No Message	ENVOL	0.29	0.29	C2	0.51	0.51
N-0.05	B38	26	140	V50X60	No Message	ENVOL	1.15	1.15	ENVOL	0.57	0.57
N-0.05	B39	27	0	V50X60	No Message	ENVOL	9.21	24.69	ENVOL	9.21	11.62
N-0.05	B39	27	411.5	V50X60	No Message	ENVOL	7.54	7.54	C2	9.21	17.97
N-0.05	B39	27	823	V50X60	No Message	ENVOL	9.21	19.92	ENVOL	9.21	9.5
N-0.05	B41	245	30	V50X60	No Message	ENVOL	9.21	21.19	ENVOL	9.21	10.07
N-0.05	B41	245	458.5	V50X60	No Message	ENVOL	8.33	8.33	C2	9.21	19.67
N-0.05	B41	245	887	V50X60	No Message	ENVOL	9.21	27.58	ENVOL	9.21	12.87
N-0.05	B42	246	0	V50X60	No Message	ENVOL	1.2	1.2	ENVOL	0.6	0.6
N-0.05	B42	246	70	V50X60	No Message	ENVOL	0.3	0.3	C2	0.51	0.51
N-0.05	B42	246	140	V50X60	No Message	ENVOL	0.81	0.81	ENVOL	0.4	0.4
N-0.05	B43	47	0	V50X60	No Message	C6	0.45	0.45	C6	0.23	0.23
N-0.05	B43	47	70	V50X60	No Message	ENVOL	0.11	0.11	C2	0.38	0.38
N-0.05	B43	47	140	V50X60	No Message	ENVOL	0.45	0.45	ENVOL	0.23	0.23
N-0.05	B44	249	0	V35X60	No Message	ENVOL	0.37	0.37	ENVOL	0.23	0.23
N-0.05	B44	249	70	V35X60	No Message	ENVOL	0.09	0.09	ENVOL	0.13	0.13
N-0.05	B44	249	140	V35X60	No Message	ENVOL	0.18	0.18	ENVOL	0.38	0.38
N-0.05	B55	251	0	V30X60	No Message	ENVOL	0.18	0.18	ENVOL	0.09	0.09
N-0.05	B55	251	83.333	V30X60	No Message	ENVOL	0.28	0.28	ENVOL	0.09	0.09
N-0.05	B55	251	83.333	V30X60	No Message	ENVOL	0.22	0.22	ENVOL	0.05	0.05
N-0.05	B55	251	125	V30X60	No Message	ENVOL	0.09	0.09	ENVOL	0.16	0.16
N-0.05	B55	251	166.667	V30X60	No Message	ENVOL	0.26	0.26	ENVOL	0.09	0.09
N-0.05	B55	251	166.667	V30X60	No Message	ENVOL	0.23	0.23	ENVOL	0.05	0.05
N-0.05	B55	251	250	V30X60	No Message	ENVOL	0.19	0.19	ENVOL	0.09	0.09
N-0.05	B56	252	0	V30X60	No Message	ENVOL	5.07	5.07	ENVOL	2.67	2.67
N-0.05	B56	252	100	V30X60	No Message	ENVOL	1.24	1.24	ENVOL	1.24	1.24
N-0.05	B56	252	200	V30X60	No Message	ENVOL	2.91	2.91	ENVOL	1.5	1.5
N-0.05	B57	342	0	V40X60	No Message	ENVOL	2.41	2.41	ENVOL	1.2	1.2
N-0.05	B57	342	370	V40X60	No Message	ENVOL	0.65	0.65	ENVOL	1.22	1.22
N-0.05	B57	342	740	V40X60	No Message	ENVOL	2.64	2.64	ENVOL	1.31	1.31
N-0.05	B59	37	30	V40X60	No Message	C6	4.28	4.28	C6	2.12	2.12
N-0.05	B59	37	370	V40X60	No Message	C6	1.14	1.14	C6	1.59	1.59
N-0.05	B59	37	710	V40X60	No Message	C6	4.61	4.61	ENVOL	2.48	2.48
N-0.05	B60	39	30	V40X60	No Message	ENVOL	3.24	3.24	ENVOL	1.61	1.61
N-0.05	B60	39	370	V40X60	No Message	ENVOL	1.03	1.03	ENVOL	1.53	1.53
N-0.05	B60	39	710	V40X60	No Message	ENVOL	4.16	4.16	ENVOL	2.06	2.06
N-0.05	B61	42	30	V40X60	No Message	ENVOL	2.42	2.42	ENVOL	1.49	1.49
N-0.05	B61	42	370	V40X60	No Message	ENVOL	1.14	1.14	ENVOL	1.31	1.31
N-0.05	B61	42	710	V40X60	No Message	ENVOL	4.62	4.62	ENVOL	2.29	2.29
N-0.05	B62	45	30	V40X60	No Message	ENVOL	0.1	0.1	C6	0.28	0.28
N-0.05	B62	45	116.667	V40X60	No Message	ENVOL	0.96	0.96	ENVOL	0.96	0.96
N-0.05	B62	45	116.667	V40X60	No Message	ENVOL	0.96	0.96	ENVOL	0.96	0.96
N-0.05	B62	45	233.333	V40X60	No Message	ENVOL	0.96	0.96	ENVOL	0.96	0.96
N-0.05	B62	45	233.333	V40X60	No Message	ENVOL	0.96	0.96	ENVOL	0.96	0.96
N-0.05	B62	45	350	V40X60	No Message	ENVOL	0.96	0.96	ENVOL	0.96	0.96
N-0.05	B62	45	350	V40X60	No Message	ENVOL	6.47	6.47	ENVOL	3.35	3.35
N-0.05	B62	45	370	V40X60	No Message	ENVOL	5.73	5.73	ENVOL	3.06	3.06
N-0.05	B62	45	710	V40X60	No Message	ENVOL	3.89	3.89	ENVOL	3.67	3.67
N-0.05	B63	54	30	V50X60	No Message	ENVOL	2.05	2.05	ENVOL	1.02	1.02

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N-0.05	B63	54	370	V50X60	No Message	ENVOL	0.54	0.54	ENVOL	1.82	1.82
N-0.05	B63	54	710	V50X60	No Message	ENVOL	2.19	2.19	ENVOL	1.09	1.09
N-0.05	B64	48	0	V50X60	No Message	ENVOL	0.27	0.27	ENVOL	0.19	0.19
N-0.05	B64	48	70	V50X60	No Message	ENVOL	0.97	0.97	ENVOL	0.97	0.97
N-0.05	B64	48	70	V50X60	No Message	ENVOL	0.97	0.97	ENVOL	0.97	0.97
N-0.05	B64	48	140	V50X60	No Message	ENVOL	0.97	0.97	ENVOL	0.97	0.97
N-0.05	B64	48	140	V50X60	No Message	ENVOL	0.97	0.97	ENVOL	0.97	0.97
N-0.05	B64	48	210	V50X60	No Message	ENVOL	0.97	0.97	ENVOL	0.97	0.97
N-0.05	B64	48	210	V50X60	No Message	ENVOL	5.51	5.51	ENVOL	5.32	5.32
N-0.05	B64	48	285	V50X60	No Message	ENVOL	3.4	3.4	ENVOL	3.97	3.97
N-0.05	B64	48	570	V50X60	No Message	ENVOL	3.9	3.9	ENVOL	2.25	2.25
N-0.05	B65	248	30	V35X60	No Message	ENVOL	1.75	1.75	ENVOL	0.87	0.87
N-0.05	B65	248	315	V35X60	No Message	ENVOL	0.53	0.53	ENVOL	0.91	0.91
N-0.05	B65	248	600	V35X60	No Message	ENVOL	2.13	2.13	ENVOL	1.06	1.06
N-0.05	B80	346	0	V50X60	No Message	C6	2.64	2.64	C6	1.31	1.31
N-0.05	B80	346	87.5	V50X60	No Message	C6	1.36	1.36	C6	1.03	1.03
N-0.05	B80	346	175	V50X60	No Message	C6	4.16	4.16	C6	2.07	2.07
N-0.05	B82	16	30	V50X60	No Message	ENVOL	9.21	17.28	ENVOL	9.21	9.21
N-0.05	B82	16	362.5	V50X60	No Message	ENVOL	5.93	5.93	C2	9.21	15.69
N-0.05	B82	16	695	V50X60	No Message	ENVOL	9.21	18.98	ENVOL	9.21	9.21
N-0.05	B83	17	30	V50X60	No Message	C6	9.21	12.34	C6	8	8
N-0.05	B83	17	287.5	V50X60	No Message	C6	3.95	3.95	C2	9.21	9.21
N-0.05	B83	17	545	V50X60	No Message	C6	9.21	12.04	C6	7.81	7.81
N-0.05	B84	18	30	V50X60	No Message	ENVOL	9.21	22.73	ENVOL	9.21	10.75
N-0.05	B84	18	420	V50X60	No Message	ENVOL	7	7	C2	9.21	17.77
N-0.05	B84	18	810	V50X60	No Message	ENVOL	9.21	21.45	ENVOL	9.21	10.18
N-0.05	B85	19	30	V50X60	No Message	C6	6.04	6.04	C6	2.99	2.99
N-0.05	B85	19	225	V50X60	No Message	ENVOL	5.31	5.31	ENVOL	5.31	5.31
N-0.05	B85	19	420	V50X60	No Message	ENVOL	9.21	16.89	ENVOL	9.21	9.21
N-0.05	B89	20	30	V50X60	No Message	ENVOL	9.21	42.84	ENVOL	9.21	19.89
N-0.05	B89	20	496.5	V50X60	No Message	ENVOL	9.21	11.79	C2	9.21	44.06
N-0.05	B89	20	963	V50X60	No Message	ENVOL	9.21	52.07	ENVOL	9.21	25.08
N-0.05	B95	21	30	V50X60	No Message	ENVOL	9.21	55.02	ENVOL	9.21	26.81
N-0.05	B95	21	513.5	V50X60	No Message	ENVOL	9.21	12.54	C2	9.21	47.52
N-0.05	B95	21	997	V50X60	No Message	ENVOL	9.21	45.07	ENVOL	9.21	21.12
N-0.05	B107	50	30	V50X60	No Message	ENVOL	2.19	2.19	ENVOL	1.09	1.09
N-0.05	B107	50	315	V50X60	No Message	ENVOL	1.09	1.09	ENVOL	1.53	1.53
N-0.05	B107	50	600	V50X60	No Message	ENVOL	4.42	4.42	ENVOL	2.19	2.19
N-0.05	B108	57	30	V35X60	No Message	ENVOL	1.69	1.69	ENVOL	0.84	0.84
N-0.05	B108	57	315	V35X60	No Message	ENVOL	0.66	0.66	ENVOL	0.83	0.83
N-0.05	B108	57	600	V35X60	No Message	ENVOL	2.66	2.66	ENVOL	1.32	1.32
N-0.05	B116	240	0	V35X60	No Message	ENVOL	2.23	2.23	ENVOL	1.11	1.11
N-0.05	B116	240	370	V35X60	No Message	ENVOL	0.55	0.55	ENVOL	1.11	1.11
N-0.05	B116	240	740	V35X60	No Message	ENVOL	1.9	1.9	ENVOL	0.94	0.94
N-0.05	B119	40	30	V40X60	No Message	ENVOL	4.38	4.38	ENVOL	2.17	2.17
N-0.05	B119	40	370	V40X60	No Message	ENVOL	1.13	1.13	ENVOL	1.25	1.25
N-0.05	B119	40	710	V40X60	No Message	ENVOL	4.59	4.59	ENVOL	2.27	2.27
N-0.05	B120	43	30	V40X60	No Message	ENVOL	7.37	8.92	ENVOL	5.8	5.8
N-0.05	B120	43	370	V40X60	No Message	ENVOL	4.17	4.17	C2	7.37	8.04
N-0.05	B120	43	485	V40X60	No Message	ENVOL	4.17	4.17	C2	7.37	12.26
N-0.05	B120	43	485	V40X60	No Message	ENVOL	4.17	4.17	C2	7.37	12.3
N-0.05	B120	43	710	V40X60	No Message	ENVOL	7.37	13.24	ENVOL	7.37	7.37
N-0.05	B121	46	30	V40X60	No Message	ENVOL	7.37	7.75	ENVOL	5.06	5.06

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N-0.05	B121	46	370	V40X60	No Message	ENVOL	3.76	3.76	C2	7.37	7.49
N-0.05	B121	46	485	V40X60	No Message	ENVOL	3.76	3.76	C2	7.37	11.31
N-0.05	B121	46	485	V40X60	No Message	ENVOL	3.76	3.76	C2	7.37	11.27
N-0.05	B121	46	710	V40X60	No Message	ENVOL	7.37	11.88	ENVOL	7.37	7.37
N-0.05	B122	55	30	V50X60	No Message	ENVOL	1.12	1.12	ENVOL	0.82	0.82
N-0.05	B122	55	370	V50X60	No Message	ENVOL	2.08	2.08	ENVOL	2.08	2.08
N-0.05	B122	55	710	V50X60	No Message	ENVOL	8.5	8.5	ENVOL	4.19	4.19
N-0.05	B124	68	0	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B124	68	110	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	12.97
N-0.05	B124	68	110	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	8.43
N-0.05	B124	68	420	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	25.91
N-0.05	B124	68	470	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	26.68
N-0.05	B124	68	470	V40X60	No Message	ENVOL	0	0	ENVOL	7.37	27.57
N-0.05	B124	68	840	V40X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B131	69	0	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B131	69	127.5	V30X60	No Message	ENVOL	0	0	ENVOL	1.57	1.57
N-0.05	B131	69	255	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B132	70	0	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B132	70	127.5	V30X60	No Message	ENVOL	0	0	ENVOL	1.57	1.57
N-0.05	B132	70	255	V30X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B133	51	0	V50X60	No Message	ENVOL	0.1	0.1	ENVOL	0.05	0.05
N-0.05	B133	51	70	V50X60	No Message	ENVOL	0.13	0.13	ENVOL	0.12	0.12
N-0.05	B133	51	140	V50X60	No Message	ENVOL	0.47	0.47	ENVOL	0.23	0.23
N-0.05	B134	58	0	V35X60	No Message	ENVOL	0.48	0.48	ENVOL	0.24	0.24
N-0.05	B134	58	70	V35X60	No Message	ENVOL	0.12	0.12	ENVOL	0.13	0.13
N-0.05	B134	58	140	V35X60	No Message	ENVOL	0.11	0.11	ENVOL	0.33	0.33
N-0.05	B137	28	30	V50X60	No Message	C6	9.21	10.25	C6	6.68	6.68
N-0.05	B137	28	362.5	V50X60	No Message	C6	3.46	3.46	ENVOL	9.21	9.21
N-0.05	B137	28	695	V50X60	No Message	C6	9.21	10.75	C6	7	7
N-0.05	B138	29	30	V50X60	No Message	ENVOL	9.21	9.21	C6	5.44	5.44
N-0.05	B138	29	287.5	V50X60	No Message	C6	2.7	2.7	C2	5.91	5.91
N-0.05	B138	29	545	V50X60	No Message	C6	8.94	8.94	C6	4.4	4.4
N-0.05	B139	30	30	V50X60	No Message	C6	9.21	9.43	C6	6.16	6.16
N-0.05	B139	30	110	V50X60	No Message	C6	7.19	7.19	C6	3.05	3.05
N-0.05	B139	30	110	V50X60	No Message	C6	3.05	3.05	C6	3.05	3.05
N-0.05	B139	30	420	V50X60	No Message	C6	3.05	3.05	C2	7.27	7.27
N-0.05	B139	30	470	V50X60	No Message	C6	3.05	3.05	C2	7.83	7.83
N-0.05	B139	30	470	V50X60	No Message	C6	3.05	3.05	C2	7	7
N-0.05	B139	30	810	V50X60	No Message	ENVOL	9.21	9.21	C6	5.1	5.1
N-0.05	B140	31	30	V50X60	No Message	C6	9.21	9.21	C6	4.54	4.54
N-0.05	B140	31	240	V50X60	No Message	C6	3.48	3.48	C2	7.24	7.24
N-0.05	B140	31	450	V50X60	No Message	C6	9.21	10.82	C6	7.04	7.04
N-0.05	B141	32	0	V50X60	No Message	ENVOL	1.03	1.03	ENVOL	0.51	0.51
N-0.05	B141	32	70	V50X60	No Message	ENVOL	0.33	0.33	C2	0.56	0.56
N-0.05	B141	32	140	V50X60	No Message	ENVOL	1.33	1.33	ENVOL	0.66	0.66
N-0.05	B142	33	0	V50X60	No Message	ENVOL	9.21	28.32	ENVOL	9.21	13.19
N-0.05	B142	33	411.5	V50X60	No Message	ENVOL	8.53	8.53	C2	9.21	20.5
N-0.05	B142	33	823	V50X60	No Message	ENVOL	9.21	22.95	ENVOL	9.21	10.85
N-0.05	B144	34	30	V50X60	No Message	ENVOL	9.21	24.03	ENVOL	9.21	11.33
N-0.05	B144	34	458.5	V50X60	No Message	ENVOL	9.21	9.21	C2	9.21	22.63
N-0.05	B144	34	887	V50X60	No Message	ENVOL	9.21	31.64	ENVOL	9.21	14.59
N-0.05	B145	35	0	V50X60	No Message	ENVOL	1.32	1.32	ENVOL	0.66	0.66
N-0.05	B145	35	70	V50X60	No Message	ENVOL	0.33	0.33	C2	0.59	0.59

Story	Label	Unique Name	Station cm	Design Section	Status	As Top Combo	As,min Top cm ²	As Top cm ²	As Bottom Combo	As,min Bottom cm ²	As Bottom cm ²
N-0.05	B145	35	140	V50X60	No Message	ENVOL	0.92	0.92	ENVOL	0.46	0.46
N-0.05	B146	52	0	V50X60	No Message	ENVOL	9.21	27.15	ENVOL	9.21	12.69
N-0.05	B146	52	112.5	V50X60	No Message	ENVOL	9.21	12.4	ENVOL	8.21	8.21
N-0.05	B146	52	225	V50X60	No Message	ENVOL	0.03	0.03	ENVOL	0.02	0.02
N-0.05	B155	56	30	V50X60	No Message	ENVOL	9.21	22.58	ENVOL	9.21	10.69
N-0.05	B155	56	127.5	V50X60	No Message	ENVOL	9.21	10.4	ENVOL	6.95	6.95
N-0.05	B155	56	225	V50X60	No Message	ENVOL	0	0	ENVOL	0.16	0.16
N-0.05	B165	59	0	V35X60	No Message	ENVOL	0.97	0.97	ENVOL	2.55	2.55
N-0.05	B165	59	112.5	V35X60	No Message	ENVOL	0.63	0.63	ENVOL	0.94	0.94
N-0.05	B165	59	225	V35X60	No Message	ENVOL	1.15	1.15	ENVOL	0.57	0.57
N-0.05	B166	65	0	V15X60	No Message	ENVOL	0	0	ENVOL	0	0
N-0.05	B166	65	225	V15X60	No Message	ENVOL	2.76	2.98	ENVOL	2.76	2.98
N-0.05	B166	65	450	V15X60	No Message	ENVOL	2.76	13.42	ENVOL	2.76	6.28
N-0.05	B170	66	0	V15X60	No Message	ENVOL	2.76	11.06	ENVOL	2.76	5.01
N-0.05	B170	66	496.5	V15X60	No Message	ENVOL	2.76	2.76	C2	2.76	6.69
N-0.05	B170	66	993	V15X60	No Message	ENVOL	2.76	9.05	ENVOL	2.76	4.19
N-0.05	B174	67	0	V15X60	No Message	ENVOL	2.76	10.2	ENVOL	2.76	4.67
N-0.05	B174	67	513.5	V15X60	No Message	ENVOL	2.76	2.76	C2	2.76	8.27
N-0.05	B174	67	1027	V15X60	No Message	ENVOL	2.76	7.92	ENVOL	2.76	3.71

Concrete Beam Summary - ACI 318-08 (Part 2 of 2)

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B1	354	0	VNV8	0.0272	VNV16	0	VNV16	0	No Message
N+10.50	B1	354	102.5	VNV8	0.0326	VNV16	0	VNV16	0	No Message
N+10.50	B1	354	205	VNV8	0.0379	VNV16	0	VNV16	0	No Message
N+10.50	B3	231	0	VNV16	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B3	231	362.5	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B3	231	725	VNV16	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B4	232	0	VNV8	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B4	232	287.5	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B4	232	575	VNV8	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B5	233	0	VNV16	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B5	233	420	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B5	233	840	VNV16	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B6	234	0	VNV16	0.021	VNV16	0	VNV16	0	No Message
N+10.50	B6	234	225	VNV16	0.0167	VNV16	0	VNV16	0	No Message
N+10.50	B6	234	450	VNV16	0.0169	VNV16	0	VNV16	0	No Message
N+10.50	B17	353	0	VNV8	0.0155	VNV16	0	VNV16	0	No Message
N+10.50	B17	353	52.5	VNV8	0.0147	VNV16	0	VNV16	0	No Message
N+10.50	B17	353	105	VNV8	0.0139	VNV16	0	VNV16	0	No Message
N+10.50	B19	213	0	VNV8	0.1099	VNV16	8.23	VNV4	0.0209	No Message
N+10.50	B19	213	37.5	VNV8	0.1114	VNV16	8.23	VNV4	0.0209	No Message
N+10.50	B19	213	75	VNV8	0.1129	VNV16	8.23	VNV4	0.0209	No Message
N+10.50	B20	215	0	VNV8	0.0959	VNV16	8.23	VNV4	0.0312	No Message
N+10.50	B20	215	37.5	VNV8	0.0974	VNV16	8.23	VNV4	0.0312	No Message
N+10.50	B20	215	75	VNV8	0.0989	VNV16	8.23	VNV4	0.0312	No Message
N+10.50	B21	218	0	VNV8	0.113	VNV16	7.54	VNV4	0.0395	No Message
N+10.50	B21	218	37.5	VNV8	0.1145	VNV16	7.54	VNV4	0.0395	No Message
N+10.50	B21	218	75	VNV8	0.116	VNV16	7.54	VNV4	0.0395	No Message
N+10.50	B22	221	0	VNV8	0.1167	VNV16	7.39	VNV4	0.0364	No Message
N+10.50	B22	221	37.5	VNV8	0.1182	VNV16	7.39	VNV4	0.0364	No Message
N+10.50	B22	221	75	VNV8	0.1197	VNV16	7.39	VNV4	0.0364	No Message
N+10.50	B23	226	0	VNV16	0.0418	VNV4	9.86	VNV4	0.0107	No Message
N+10.50	B23	226	52.5	VNV16	0.0418	VNV4	9.86	VNV4	0.0107	No Message
N+10.50	B23	226	105	VNV16	0.0418	VNV4	9.86	VNV4	0.0107	No Message
N+10.50	B31	270	0	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B31	270	52.5	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B31	270	105	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B32	351	0	VNV16	0.0581	VNV16	0	VNV16	0	No Message
N+10.50	B32	351	87.5	VNV16	0.0735	VNV16	0	VNV16	0	No Message
N+10.50	B32	351	175	VNV16	0.0888	VNV16	0	VNV16	0	No Message
N+10.50	B34	201	30	VNV16	0.0487	VNV16	0	VNV16	0	No Message
N+10.50	B34	201	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B34	201	695	VNV16	0.0466	VNV16	0	VNV16	0	No Message
N+10.50	B35	202	30	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B35	202	287.5	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B35	202	545	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B36	203	30	VNV16	0.0503	VNV16	0	VNV16	0	No Message
N+10.50	B36	203	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B36	203	810	VNV16	0.0524	VNV16	0	VNV16	0	No Message
N+10.50	B37	204	30	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B37	204	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B37	204	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B37	204	240	VNV16	0.0418	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B37	204	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B37	204	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B37	204	450	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B38	205	0	VNV8	0.0836	VNV4	38.2	VNV4	0.1048	No Message
N+10.50	B38	205	70	VNV8	0.0926	VNV4	38.2	VNV4	0.1048	No Message
N+10.50	B38	205	140	VNV8	0.1016	VNV4	38.2	VNV4	0.1048	No Message
N+10.50	B40	266	0	VNV1	0.1411	VNV4	64.9	VNV4	0.1781	No Message
N+10.50	B40	266	50	VNV1	0.1346	VNV4	64.9	VNV4	0.1781	No Message
N+10.50	B40	266	50	VNV8	0.0643	VNV4	29.27	VNV4	0.0147	No Message
N+10.50	B40	266	870	VNV16	0.0502	VNV4	29.27	VNV4	0.0147	No Message
N+10.50	B40	266	1690	VNV8	0.0683	VNV4	29.27	VNV4	0.0147	No Message
N+10.50	B40	266	1690	VNV1	0	VNV8	101.36	VNV8	0.2781	No Message
N+10.50	B40	266	1740	VNV1	0	VNV8	101.36	VNV8	0.2781	No Message
N+10.50	B42	267	0	VNV1	0	VNV8	59.44	VNV8	0.1631	No Message
N+10.50	B42	267	70	VNV1	0	VNV8	59.44	VNV8	0.1631	No Message
N+10.50	B42	267	140	VNV1	0	VNV8	59.44	VNV8	0.1631	No Message
N+10.50	B43	224	0	VNV16	0.0437	VNV4	23.86	VNV4	0.0655	No Message
N+10.50	B43	224	70	VNV8	0.0524	VNV4	23.86	VNV4	0.0655	No Message
N+10.50	B43	224	140	VNV8	0.0616	VNV4	23.86	VNV4	0.0655	No Message
N+10.50	B44	269	0	VNV8	0.0645	VNV8	17.21	VNV8	0.053	No Message
N+10.50	B44	269	70	VNV8	0.0618	VNV8	17.21	VNV8	0.053	No Message
N+10.50	B44	269	140	VNV8	0.0592	VNV8	17.21	VNV8	0.053	No Message
N+10.50	B50	297	0	VNV1	0	VNV8	9.56	VNV8	0.0582	No Message
N+10.50	B50	297	95	VNV1	0	VNV8	9.56	VNV8	0.0582	No Message
N+10.50	B50	297	190	VNV1	0	VNV8	9.56	VNV8	0.0582	No Message
N+10.50	B54	302	0	VNV1	0	VNV4	11.72	VNV4	0.0713	No Message
N+10.50	B54	302	95	VNV1	0	VNV4	11.72	VNV4	0.0713	No Message
N+10.50	B54	302	190	VNV1	0	VNV4	11.72	VNV4	0.0713	No Message
N+10.50	B55	284	0	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B55	284	83.333	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B55	284	83.333	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B55	284	125	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B55	284	166.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B55	284	166.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B55	284	250	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B56	283	0	VNV1	0	VNV8	6.42	VNV8	0.0093	No Message
N+10.50	B56	283	100	VNV1	0	VNV8	6.42	VNV8	0.0093	No Message
N+10.50	B56	283	200	VNV1	0	VNV8	6.42	VNV8	0.0093	No Message
N+10.50	B57	352	0	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B57	352	370	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B57	352	740	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	30	VNV16	0.0694	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	150	VNV16	0.0619	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	150	VNV16	0.0586	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	300	VNV16	0.0492	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	300	VNV16	0.0459	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	370	VNV16	0.0415	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	450	VNV16	0.0462	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	450	VNV16	0.0495	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	600	VNV16	0.0589	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	600	VNV16	0.0621	VNV16	0	VNV16	0	No Message
N+10.50	B59	214	710	VNV16	0.069	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	30	VNV16	0.0632	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B60	216	150	VNV16	0.0557	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	150	VNV16	0.0524	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	300	VNV16	0.043	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	300	VNV16	0.0397	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	370	VNV16	0.0385	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	450	VNV16	0.0435	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	450	VNV16	0.0468	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	600	VNV16	0.0562	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	600	VNV16	0.0594	VNV16	0	VNV16	0	No Message
N+10.50	B60	216	710	VNV16	0.0663	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	30	VNV16	0.061	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	150	VNV16	0.0535	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	150	VNV16	0.0496	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	300	VNV16	0.0402	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	300	VNV16	0.0364	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	450	VNV16	0.0376	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	450	VNV16	0.0414	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	600	VNV16	0.0508	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	600	VNV16	0.0545	VNV16	0	VNV16	0	No Message
N+10.50	B61	219	710	VNV16	0.0614	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	30	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	150	VNV8	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	150	VNV8	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	300	VNV8	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	300	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	350	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B62	222	350	VNV8	0.1303	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B62	222	370	VNV8	0.1279	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B62	222	450	VNV8	0.1183	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B62	222	450	VNV8	0.1096	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B62	222	600	VNV8	0.0917	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B62	222	600	VNV8	0.0833	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B62	222	710	VNV16	0.0769	VNV16	8.23	VNV4	0.0185	No Message
N+10.50	B80	237	0	VNV16	0.0924	VNV16	0	VNV16	0	No Message
N+10.50	B80	237	87.5	VNV16	0.1169	VNV16	0	VNV16	0	No Message
N+10.50	B80	237	175	VNV16	0.1413	VNV16	0	VNV16	0	No Message
N+10.50	B82	197	30	VNV8	0.0565	VNV16	0	VNV16	0	No Message
N+10.50	B82	197	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B82	197	695	VNV8	0.0465	VNV16	0	VNV16	0	No Message
N+10.50	B83	198	30	VNV8	0.0431	VNV16	0	VNV16	0	No Message
N+10.50	B83	198	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B83	198	545	VNV8	0.0599	VNV16	0	VNV16	0	No Message
N+10.50	B84	199	30	VNV8	0.0673	VNV16	0	VNV16	0	No Message
N+10.50	B84	199	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B84	199	810	VNV8	0.0598	VNV16	0	VNV16	0	No Message
N+10.50	B85	200	30	VNV16	0.127	VNV16	9.86	VNV8	0.0162	No Message
N+10.50	B85	200	240	VNV16	0.1591	VNV16	9.86	VNV8	0.0162	No Message
N+10.50	B85	200	450	VNV16	0.2111	VNV16	9.86	VNV8	0.0162	No Message
N+10.50	B86	225	0	VNV16	0	VNV4	47.21	VNV4	0.1295	No Message
N+10.50	B86	225	70	VNV16	0	VNV4	47.21	VNV4	0.1295	No Message
N+10.50	B86	225	70	VNV1	0	VNV4	50.9	VNV4	0.1397	No Message
N+10.50	B86	225	140	VNV1	0	VNV4	50.9	VNV4	0.1397	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B86	225	140	VNV16	0	VNV4	46.81	VNV4	0.1285	No Message
N+10.50	B86	225	190	VNV16	0	VNV4	46.81	VNV4	0.1285	No Message
N+10.50	B86	225	190	VNV16	0	VNV4	46.11	VNV4	0.1265	No Message
N+10.50	B86	225	210	VNV16	0	VNV4	46.11	VNV4	0.1265	No Message
N+10.50	B86	225	210	VNV1	0.1124	VNV4	43.91	VNV4	0.1205	No Message
N+10.50	B86	225	395	VNV4	0.1234	VNV4	43.91	VNV4	0.1205	No Message
N+10.50	B86	225	395	VNV8	0.1082	VNV16	29.27	VNV8	0.0265	No Message
N+10.50	B86	225	600	VNV16	0.1647	VNV16	29.27	VNV8	0.0265	No Message
N+10.50	B86	225	600	VNV16	0.0621	VNV16	29.27	VNV4	0.0282	No Message
N+10.50	B86	225	780	VNV16	0.0521	VNV16	29.27	VNV4	0.0282	No Message
N+10.50	B86	225	780	VNV8	0.0731	VNV4	32.76	VNV4	0.0899	No Message
N+10.50	B86	225	960	VNV8	0.0864	VNV4	32.76	VNV4	0.0899	No Message
N+10.50	B86	225	960	VNV1	0.087	VNV4	54.98	VNV4	0.1509	No Message
N+10.50	B86	225	1140	VNV1	0.1003	VNV4	54.98	VNV4	0.1509	No Message
N+10.50	B86	225	1140	VNV1	0.0749	VNV8	71.04	VNV8	0.1949	No Message
N+10.50	B86	225	1200	VNV1	0.0799	VNV8	71.04	VNV8	0.1949	No Message
N+10.50	B87	303	0	VNV1	0	VNV8	36.4	VNV8	0.1489	No Message
N+10.50	B87	303	200	VNV1	0	VNV8	36.4	VNV8	0.1489	No Message
N+10.50	B87	303	200	VNV8	0.0128	VNV4	15.66	VNV4	0.064	No Message
N+10.50	B87	303	380	VNV8	0.0055	VNV4	15.66	VNV4	0.064	No Message
N+10.50	B87	303	380	VNV16	0	VNV4	11.97	VNV4	0.049	No Message
N+10.50	B87	303	560	VNV16	0	VNV4	11.97	VNV4	0.049	No Message
N+10.50	B87	303	560	VNV16	0	VNV12	13	VNV8	0.0291	No Message
N+10.50	B87	303	740	VNV16	0	VNV12	13	VNV8	0.0291	No Message
N+10.50	B87	303	740	VNV16	0.0335	VNV8	14.21	VNV8	0.012	No Message
N+10.50	B87	303	945	VNV16	0.0335	VNV8	14.21	VNV8	0.012	No Message
N+10.50	B87	303	945	VNV8	0.0056	VNV16	14.21	VNV12	0.0176	No Message
N+10.50	B87	303	1150	VNV8	0.0056	VNV16	14.21	VNV12	0.0176	No Message
N+10.50	B87	303	1150	VNV1	0	VNV4	33.68	VNV4	0.1378	No Message
N+10.50	B87	303	1480	VNV1	0	VNV4	33.68	VNV4	0.1378	No Message
N+10.50	B97	305	0	VNV1	0	VNV8	40.77	VNV8	0.1668	No Message
N+10.50	B97	305	200	VNV1	0	VNV8	40.77	VNV8	0.1668	No Message
N+10.50	B97	305	200	VNV1	0.0432	VNV4	20.24	VNV4	0.0828	No Message
N+10.50	B97	305	380	VNV1	0.0359	VNV4	20.24	VNV4	0.0828	No Message
N+10.50	B97	305	380	VNV8	0.0146	VNV8	17.39	VNV8	0.0711	No Message
N+10.50	B97	305	560	VNV8	0.0073	VNV8	17.39	VNV8	0.0711	No Message
N+10.50	B97	305	560	VNV16	0	VNV12	10.89	VNV8	0.0403	No Message
N+10.50	B97	305	740	VNV16	0	VNV12	10.89	VNV8	0.0403	No Message
N+10.50	B97	305	740	VNV16	0	VNV12	12.44	VNV8	0.0269	No Message
N+10.50	B97	305	945	VNV16	0	VNV12	12.44	VNV8	0.0269	No Message
N+10.50	B97	305	945	VNV16	0	VNV8	10.63	VNV8	0.0435	No Message
N+10.50	B97	305	1150	VNV16	0	VNV8	10.63	VNV8	0.0435	No Message
N+10.50	B97	305	1150	VNV1	0	VNV8	39.63	VNV8	0.1621	No Message
N+10.50	B97	305	1480	VNV1	0	VNV8	39.63	VNV8	0.1621	No Message
N+10.50	B98	268	0	VNV1	0	VNV8	67.71	VNV8	0.2087	No Message
N+10.50	B98	268	60	VNV1	0	VNV8	67.71	VNV8	0.2087	No Message
N+10.50	B98	268	60	VNV1	0	VNV4	45.53	VNV4	0.1403	No Message
N+10.50	B98	268	240	VNV1	0	VNV4	45.53	VNV4	0.1403	No Message
N+10.50	B98	268	240	VNV1	0	VNV8	31.59	VNV8	0.0974	No Message
N+10.50	B98	268	420	VNV1	0	VNV8	31.59	VNV8	0.0974	No Message
N+10.50	B98	268	420	VNV8	0.1332	VNV8	17.66	VNV8	0.0544	No Message
N+10.50	B98	268	600	VNV8	0.1264	VNV8	17.66	VNV8	0.0544	No Message
N+10.50	B98	268	600	VNV8	0.1177	VNV8	16.74	VNV8	0.0516	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B98	268	805	VNV8	0.1254	VNV8	16.74	VNV8	0.0516	No Message
N+10.50	B98	268	805	VNV1	0	VNV4	34.23	VNV4	0.1055	No Message
N+10.50	B98	268	1010	VNV1	0	VNV4	34.23	VNV4	0.1055	No Message
N+10.50	B98	268	1010	VNV1	0	VNV8	57.31	VNV8	0.1766	No Message
N+10.50	B98	268	1200	VNV1	0	VNV8	57.31	VNV8	0.1766	No Message
N+10.50	B115	239	0	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B115	239	370	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B115	239	740	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	30	VNV16	0.0694	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	150	VNV16	0.0619	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	150	VNV16	0.0586	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	300	VNV16	0.0492	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	300	VNV16	0.0459	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	370	VNV16	0.0415	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	450	VNV16	0.0439	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	450	VNV16	0.0472	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	600	VNV16	0.0566	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	600	VNV16	0.0598	VNV16	0	VNV16	0	No Message
N+10.50	B118	238	710	VNV16	0.0667	VNV16	0	VNV16	0	No Message
N+10.50	B119	217	30	VNV8	0.063	VNV16	7.89	VNV4	0.0311	No Message
N+10.50	B119	217	150	VNV8	0.0516	VNV16	7.89	VNV4	0.0311	No Message
N+10.50	B119	217	150	VNV8	0.0456	VNV16	7.89	VNV4	0.0311	No Message
N+10.50	B119	217	300	VNV8	0.0312	VNV16	7.89	VNV4	0.0311	No Message
N+10.50	B119	217	300	VNV8	0.0252	VNV16	7.89	VNV4	0.0311	No Message
N+10.50	B119	217	320	VNV8	0.0233	VNV16	7.89	VNV4	0.0311	No Message
N+10.50	B119	217	320	VNV16	0	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B119	217	370	VNV8	0.0022	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B119	217	450	VNV8	0.0099	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B119	217	450	VNV8	0.0159	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B119	217	600	VNV8	0.0302	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B119	217	600	VNV8	0.036	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B119	217	710	VNV8	0.0465	VNV16	7.48	VNV4	0.0332	No Message
N+10.50	B120	220	30	VNV16	0.0733	VNV4	7.87	VNV4	0.0478	No Message
N+10.50	B120	220	320	VNV16	0.0646	VNV4	7.87	VNV4	0.0478	No Message
N+10.50	B120	220	320	VNV16	0.0533	VNV4	7.52	VNV4	0.0457	No Message
N+10.50	B120	220	370	VNV16	0.0548	VNV4	7.52	VNV4	0.0457	No Message
N+10.50	B120	220	710	VNV16	0.0649	VNV4	7.52	VNV4	0.0457	No Message
N+10.50	B121	223	30	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B121	223	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B121	223	710	VNV8	0.0362	VNV16	0	VNV16	0	No Message
N+10.50	B125	298	0	VNV1	0	VNV8	11.04	VNV8	0.0671	No Message
N+10.50	B125	298	95	VNV1	0	VNV8	11.04	VNV8	0.0671	No Message
N+10.50	B125	298	190	VNV1	0	VNV8	11.04	VNV8	0.0671	No Message
N+10.50	B129	300	0	VNV1	0	VNV8	14.09	VNV8	0.0857	No Message
N+10.50	B129	300	95	VNV1	0	VNV8	14.09	VNV8	0.0857	No Message
N+10.50	B129	300	190	VNV1	0	VNV8	14.09	VNV8	0.0857	No Message
N+10.50	B133	227	0	VNV5	0.1161	VNV8	41.26	VNV8	0.1132	No Message
N+10.50	B133	227	70	VNV5	0.1102	VNV8	41.26	VNV8	0.1132	No Message
N+10.50	B133	227	140	VNV5	0.1044	VNV8	41.26	VNV8	0.1132	No Message
N+10.50	B134	229	0	VNV8	0.0758	VNV8	22.25	VNV8	0.0686	No Message
N+10.50	B134	229	70	VNV8	0.0731	VNV8	22.25	VNV8	0.0686	No Message
N+10.50	B134	229	140	VNV8	0.0705	VNV8	22.25	VNV8	0.0686	No Message
N+10.50	B135	236	0	VNV8	0.0604	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B135	236	87.5	VNV8	0.0845	VNV16	0	VNV16	0	No Message
N+10.50	B135	236	175	VNV8	0.1086	VNV16	0	VNV16	0	No Message
N+10.50	B137	206	30	VNV8	0.0541	VNV16	0	VNV16	0	No Message
N+10.50	B137	206	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B137	206	695	VNV8	0.0472	VNV16	0	VNV16	0	No Message
N+10.50	B138	207	30	VNV16	0.0663	VNV8	9.86	VNV4	0.0117	No Message
N+10.50	B138	207	287.5	VNV16	0.0471	VNV8	9.86	VNV4	0.0117	No Message
N+10.50	B138	207	545	VNV16	0.0744	VNV8	9.86	VNV4	0.0117	No Message
N+10.50	B139	208	30	VNV8	0.062	VNV16	0	VNV16	0	No Message
N+10.50	B139	208	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B139	208	810	VNV8	0.0607	VNV16	0	VNV16	0	No Message
N+10.50	B140	209	30	VNV16	0.1361	VNV16	0	VNV16	0	No Message
N+10.50	B140	209	240	VNV16	0.0882	VNV16	0	VNV16	0	No Message
N+10.50	B140	209	450	VNV16	0.1329	VNV16	0	VNV16	0	No Message
N+10.50	B141	210	0	VNV1	0.1077	VNV8	42.59	VNV8	0.1169	No Message
N+10.50	B141	210	70	VNV1	0.1156	VNV8	42.59	VNV8	0.1169	No Message
N+10.50	B141	210	140	VNV1	0.1235	VNV8	42.59	VNV8	0.1169	No Message
N+10.50	B143	211	0	VNV1	0	VNV8	77.3	VNV8	0.2121	No Message
N+10.50	B143	211	50	VNV1	0	VNV8	77.3	VNV8	0.2121	No Message
N+10.50	B143	211	50	VNV8	0.092	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	605	VNV16	0.0502	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	605	VNV16	0.0502	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	870	VNV16	0.0502	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	1135	VNV16	0.0502	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	1135	VNV16	0.0502	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	1690	VNV8	0.091	VNV4	29.27	VNV4	0.0142	No Message
N+10.50	B143	211	1690	VNV1	0	VNV8	95.11	VNV8	0.261	No Message
N+10.50	B143	211	1740	VNV1	0	VNV8	95.11	VNV8	0.261	No Message
N+10.50	B145	212	0	VNV1	0.1324	VNV8	56.19	VNV8	0.1542	No Message
N+10.50	B145	212	70	VNV1	0.1227	VNV8	56.19	VNV8	0.1542	No Message
N+10.50	B145	212	140	VNV1	0.1129	VNV8	56.19	VNV8	0.1542	No Message
N+10.50	B146	228	0	VNV16	0.0502	VNV16	0	VNV16	0	No Message
N+10.50	B146	228	112.5	VNV16	0.0502	VNV16	0	VNV16	0	No Message
N+10.50	B146	228	225	VNV16	0.0502	VNV16	0	VNV16	0	No Message
N+10.50	B148	304	0	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B148	304	112.5	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B148	304	225	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B163	306	0	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B163	306	112.5	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B163	306	225	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B165	230	0	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B165	230	112.5	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B165	230	225	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+10.50	B178	277	0	VNV8	0.3503	VNV16	11.73	VNV8	0.0199	No Message
N+10.50	B178	277	95	VNV8	0.3362	VNV16	11.73	VNV8	0.0199	No Message
N+10.50	B178	277	190	VNV8	0.3221	VNV16	11.73	VNV8	0.0199	No Message
N+10.50	B182	279	0	VNV8	0.1394	VNV12	11.5	VNV8	0.0279	No Message
N+10.50	B182	279	95	VNV8	0.1536	VNV12	11.5	VNV8	0.0279	No Message
N+10.50	B182	279	190	VNV8	0.1677	VNV12	11.5	VNV8	0.0279	No Message
N+10.50	B184	280	0	VNV1	0	VNV12	7.39	VNV8	0.0165	No Message
N+10.50	B184	280	95	VNV1	0	VNV12	7.39	VNV8	0.0165	No Message
N+10.50	B184	280	190	VNV1	0.2143	VNV12	7.39	VNV8	0.0165	No Message
N+10.50	B188	282	0	VNV8	0.084	VNV8	6.46	VNV8	0.0393	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+10.50	B188	282	95	VNV8	0.0969	VNV8	6.46	VNV8	0.0393	No Message
N+10.50	B188	282	190	VNV8	0.1097	VNV8	6.46	VNV8	0.0393	No Message
N+10.50	B193	274	0	VNV8	0.167	VNV16	6.55	VNV4	0.0239	No Message
N+10.50	B193	274	95	VNV8	0.1554	VNV16	6.55	VNV4	0.0239	No Message
N+10.50	B193	274	190	VNV8	0.1438	VNV16	6.55	VNV4	0.0239	No Message
N+10.50	B197	276	0	VNV8	0.0876	VNV8	6.96	VNV8	0.0423	No Message
N+10.50	B197	276	95	VNV8	0.0993	VNV8	6.96	VNV8	0.0423	No Message
N+10.50	B197	276	190	VNV8	0.1109	VNV8	6.96	VNV8	0.0423	No Message
N+10.50	B198	271	0	VNV1	0	VNV4	7.12	VNV4	0.0433	No Message
N+10.50	B198	271	95	VNV1	0	VNV4	7.12	VNV4	0.0433	No Message
N+10.50	B198	271	190	VNV8	0.1397	VNV4	7.12	VNV4	0.0433	No Message
N+10.50	B202	273	0	VNV1	0.0845	VNV8	10.64	VNV8	0.0647	No Message
N+10.50	B202	273	95	VNV1	0.0961	VNV8	10.64	VNV8	0.0647	No Message
N+10.50	B202	273	190	VNV1	0.1078	VNV8	10.64	VNV8	0.0647	No Message
N+10.50	B208	272	0	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B208	272	820	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B208	272	1640	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B210	275	0	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B210	275	820	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B210	275	1640	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B212	278	0	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B212	278	820	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B212	278	1640	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+10.50	B214	281	0	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B214	281	820	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B214	281	1640	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B216	299	0	VNV8	0.0434	VNV16	0	VNV16	0	No Message
N+10.50	B216	299	820	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B216	299	1640	VNV8	0.0411	VNV16	0	VNV16	0	No Message
N+10.50	B218	301	0	VNV8	0.0776	VNV16	0	VNV16	0	No Message
N+10.50	B218	301	820	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+10.50	B218	301	1640	VNV8	0.0741	VNV16	0	VNV16	0	No Message
N+10.50	B219	355	0	VNV4	0.0364	VNV16	0	VNV16	0	No Message
N+10.50	B219	355	287.5	VNV16	0	VNV16	0	VNV16	0	No Message
N+10.50	B219	355	575	VNV4	0.0425	VNV16	0	VNV16	0	No Message
N+6.12	B3	175	0	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+6.12	B3	175	362.5	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B3	175	725	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+6.12	B4	176	0	VNV16	0.022	VNV16	0	VNV16	0	No Message
N+6.12	B4	176	287.5	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+6.12	B4	176	575	VNV16	0.0223	VNV16	0	VNV16	0	No Message
N+6.12	B5	177	0	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+6.12	B5	177	420	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B5	177	840	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+6.12	B6	263	0	VNV16	0.0288	VNV16	0	VNV16	0	No Message
N+6.12	B6	263	225	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+6.12	B6	263	450	VNV16	0.0269	VNV16	0	VNV16	0	No Message
N+6.12	B8	328	0	VNV1	0	VNV8	3.57	VNV8	0.0312	No Message
N+6.12	B8	328	336.667	VNV1	0	VNV8	3.57	VNV8	0.0312	No Message
N+6.12	B8	328	673.333	VNV1	0	VNV8	3.57	VNV8	0.0312	No Message
N+6.12	B12	329	0	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+6.12	B12	329	336.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B12	329	673.334	VNV16	0.0126	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+6.12	B15	330	0	VNV1	0	VNV8	3.96	VNV8	0.0346	No Message
N+6.12	B15	330	336.667	VNV1	0	VNV8	3.96	VNV8	0.0346	No Message
N+6.12	B15	330	673.333	VNV1	0	VNV8	3.96	VNV8	0.0346	No Message
N+6.12	B19	157	0	VNV8	0.0657	VNV4	7.32	VNV4	0.0445	No Message
N+6.12	B19	157	37.5	VNV8	0.0672	VNV4	7.32	VNV4	0.0445	No Message
N+6.12	B19	157	75	VNV8	0.0687	VNV4	7.32	VNV4	0.0445	No Message
N+6.12	B20	159	0	VNV8	0.122	VNV16	8.19	VNV4	0.0346	No Message
N+6.12	B20	159	37.5	VNV8	0.1235	VNV16	8.19	VNV4	0.0346	No Message
N+6.12	B20	159	75	VNV8	0.125	VNV16	8.19	VNV4	0.0346	No Message
N+6.12	B21	162	0	VNV8	0.1267	VNV16	8.06	VNV4	0.0357	No Message
N+6.12	B21	162	37.5	VNV8	0.1282	VNV16	8.06	VNV4	0.0357	No Message
N+6.12	B21	162	75	VNV8	0.1297	VNV16	8.06	VNV4	0.0357	No Message
N+6.12	B22	165	0	VNV8	0.145	VNV16	7.56	VNV4	0.0356	No Message
N+6.12	B22	165	37.5	VNV8	0.1465	VNV16	7.56	VNV4	0.0356	No Message
N+6.12	B22	165	75	VNV8	0.148	VNV16	7.56	VNV4	0.0356	No Message
N+6.12	B23	170	0	VNV8	0.1136	VNV12	11.33	VNV4	0.0175	No Message
N+6.12	B23	170	52.5	VNV8	0.1168	VNV12	11.33	VNV4	0.0175	No Message
N+6.12	B23	170	105	VNV8	0.1199	VNV12	11.33	VNV4	0.0175	No Message
N+6.12	B25	321	0	VNV8	0.1376	VNV4	8.85	VNV4	0.0538	No Message
N+6.12	B25	321	52.5	VNV8	0.1355	VNV4	8.85	VNV4	0.0538	No Message
N+6.12	B25	321	105	VNV8	0.1334	VNV4	8.85	VNV4	0.0538	No Message
N+6.12	B29	324	0	VNV8	0.1452	VNV8	9.55	VNV8	0.0581	No Message
N+6.12	B29	324	52.5	VNV8	0.1431	VNV8	9.55	VNV8	0.0581	No Message
N+6.12	B29	324	105	VNV8	0.141	VNV8	9.55	VNV8	0.0581	No Message
N+6.12	B31	260	0	VNV8	0.0643	VNV4	7.68	VNV4	0.0467	No Message
N+6.12	B31	260	52.5	VNV8	0.0622	VNV4	7.68	VNV4	0.0467	No Message
N+6.12	B31	260	105	VNV8	0.0601	VNV4	7.68	VNV4	0.0467	No Message
N+6.12	B34	145	30	VNV8	0.1068	VNV16	0	VNV16	0	No Message
N+6.12	B34	145	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B34	145	695	VNV8	0.1144	VNV16	0	VNV16	0	No Message
N+6.12	B35	146	30	VNV16	0.1203	VNV16	0	VNV16	0	No Message
N+6.12	B35	146	287.5	VNV16	0.0628	VNV16	0	VNV16	0	No Message
N+6.12	B35	146	545	VNV16	0.1222	VNV16	0	VNV16	0	No Message
N+6.12	B36	147	30	VNV8	0.1351	VNV16	0	VNV16	0	No Message
N+6.12	B36	147	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B36	147	810	VNV8	0.1469	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	30	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	240	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B37	148	450	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B38	149	0	VNV8	0.1603	VNV4	33.63	VNV4	0.0923	No Message
N+6.12	B38	149	70	VNV8	0.1757	VNV4	33.63	VNV4	0.0923	No Message
N+6.12	B38	149	140	VNV8	0.1911	VNV4	33.63	VNV4	0.0923	No Message
N+6.12	B40	261	0	VNV1	0	VNV8	80.6	VNV8	0.2212	No Message
N+6.12	B40	261	533.333	VNV1	0	VNV8	80.6	VNV8	0.2212	No Message
N+6.12	B40	261	533.333	VNV8	0.1011	VNV16	29.27	VNV4	0.0208	No Message
N+6.12	B40	261	870	VNV8	0.0272	VNV16	29.27	VNV4	0.0208	No Message
N+6.12	B40	261	1206.667	VNV8	0.0939	VNV16	29.27	VNV4	0.0208	No Message
N+6.12	B40	261	1206.667	VNV1	0	VNV8	90.39	VNV8	0.248	No Message
N+6.12	B40	261	1740	VNV1	0	VNV8	90.39	VNV8	0.248	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+6.12	B42	262	0	VNV8	0.1819	VNV8	33.43	VNV8	0.0917	No Message
N+6.12	B42	262	70	VNV8	0.1666	VNV8	33.43	VNV8	0.0917	No Message
N+6.12	B42	262	140	VNV8	0.1512	VNV8	33.43	VNV8	0.0917	No Message
N+6.12	B43	168	0	VNV16	0.0502	VNV8	29.27	VNV4	0.0203	No Message
N+6.12	B43	168	70	VNV16	0.0502	VNV8	29.27	VNV4	0.0203	No Message
N+6.12	B43	168	140	VNV16	0.0502	VNV8	29.27	VNV4	0.0203	No Message
N+6.12	B44	259	0	VNV8	0.0539	VNV12	20.19	VNV4	0.0165	No Message
N+6.12	B44	259	70	VNV8	0.0512	VNV12	20.19	VNV4	0.0165	No Message
N+6.12	B44	259	140	VNV8	0.0486	VNV12	20.19	VNV4	0.0165	No Message
N+6.12	B55	264	0	VNV8	0.0251	VNV16	0	VNV16	0	No Message
N+6.12	B55	264	83.333	VNV8	0.0251	VNV16	0	VNV16	0	No Message
N+6.12	B55	264	83.333	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B55	264	125	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B55	264	166.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B55	264	166.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B55	264	250	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B56	265	0	VNV1	0	VNV16	0	VNV16	0	No Message
N+6.12	B56	265	100	VNV1	0	VNV16	0	VNV16	0	No Message
N+6.12	B56	265	200	VNV1	0	VNV16	0	VNV16	0	No Message
N+6.12	B59	158	30	VNV8	0.0645	VNV16	0	VNV16	0	No Message
N+6.12	B59	158	370	VNV8	0.0509	VNV16	0	VNV16	0	No Message
N+6.12	B59	158	710	VNV8	0.0599	VNV16	0	VNV16	0	No Message
N+6.12	B60	160	30	VNV8	0.0564	VNV16	0	VNV16	0	No Message
N+6.12	B60	160	370	VNV8	0.0428	VNV16	0	VNV16	0	No Message
N+6.12	B60	160	710	VNV8	0.0505	VNV16	0	VNV16	0	No Message
N+6.12	B61	163	30	VNV8	0.0479	VNV16	0	VNV16	0	No Message
N+6.12	B61	163	370	VNV8	0.0343	VNV16	0	VNV16	0	No Message
N+6.12	B61	163	710	VNV8	0.0464	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	30	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	116.667	VNV8	0.0391	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	116.667	VNV8	0.0387	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	233.333	VNV8	0.0392	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	233.333	VNV8	0.0388	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	350	VNV8	0.039	VNV16	0	VNV16	0	No Message
N+6.12	B62	166	350	VNV8	0.1184	VNV4	8.23	VNV4	0.0109	No Message
N+6.12	B62	166	370	VNV8	0.1174	VNV4	8.23	VNV4	0.0109	No Message
N+6.12	B62	166	710	VNV8	0.1004	VNV4	8.23	VNV4	0.0109	No Message
N+6.12	B80	182	0	VNV16	0.0757	VNV16	0	VNV16	0	No Message
N+6.12	B80	182	87.5	VNV16	0.0938	VNV16	0	VNV16	0	No Message
N+6.12	B80	182	175	VNV16	0.1118	VNV16	0	VNV16	0	No Message
N+6.12	B82	141	30	VNV8	0.2282	VNV16	0	VNV16	0	No Message
N+6.12	B82	141	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B82	141	695	VNV8	0.2344	VNV16	0	VNV16	0	No Message
N+6.12	B83	142	30	VNV8	0.1795	VNV16	0	VNV16	0	No Message
N+6.12	B83	142	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B83	142	545	VNV8	0.176	VNV16	0	VNV16	0	No Message
N+6.12	B84	143	30	VNV8	0.2232	VNV16	0	VNV16	0	No Message
N+6.12	B84	143	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B84	143	810	VNV8	0.228	VNV16	0	VNV16	0	No Message
N+6.12	B85	144	30	VNV8	0.1103	VNV12	9.71	VNV8	0.0309	No Message
N+6.12	B85	144	240	VNV16	0	VNV12	9.71	VNV8	0.0309	No Message
N+6.12	B85	144	450	VNV8	0.0496	VNV12	9.71	VNV8	0.0309	No Message
N+6.12	B86	169	0	VNV8	0.204	VNV4	30.66	VNV4	0.0841	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+6.12	B86	169	70	VNV8	0.2026	VNV4	30.66	VNV4	0.0841	No Message
N+6.12	B86	169	70	VNV8	0.202	VNV4	35.9	VNV4	0.0985	No Message
N+6.12	B86	169	140	VNV8	0.2046	VNV4	35.9	VNV4	0.0985	No Message
N+6.12	B86	169	140	VNV1	0	VNV4	44.79	VNV4	0.1229	No Message
N+6.12	B86	169	210	VNV1	0	VNV4	44.79	VNV4	0.1229	No Message
N+6.12	B86	169	210	VNV1	0	VNV8	62.59	VNV8	0.1718	No Message
N+6.12	B86	169	600	VNV1	0	VNV8	62.59	VNV8	0.1718	No Message
N+6.12	B86	169	600	VNV1	0.256	VNV4	51.11	VNV4	0.1402	No Message
N+6.12	B86	169	935	VNV1	0.2759	VNV4	51.11	VNV4	0.1402	No Message
N+6.12	B86	169	935	VNV1	0.2837	VNV4	51.11	VNV4	0.1402	No Message
N+6.12	B86	169	1200	VNV1	0	VNV4	51.11	VNV4	0.1402	No Message
N+6.12	B88	316	0	VNV8	0.3417	VNV16	9.86	VNV8	0.0115	No Message
N+6.12	B88	316	336.667	VNV8	0.1012	VNV16	9.86	VNV8	0.0115	No Message
N+6.12	B88	316	673.333	VNV8	0.1801	VNV16	9.86	VNV8	0.0115	No Message
N+6.12	B90	319	7.5	VNV8	0.1359	VNV12	12.35	VNV8	0.0405	No Message
N+6.12	B90	319	740	VNV8	0.1061	VNV12	12.35	VNV8	0.0405	No Message
N+6.12	B90	319	740	VNV8	0.0922	VNV4	11.84	VNV4	0.0484	No Message
N+6.12	B90	319	743.75	VNV8	0.0923	VNV4	11.84	VNV4	0.0484	No Message
N+6.12	B90	319	1480	VNV8	0.1223	VNV4	11.84	VNV4	0.0484	No Message
N+6.12	B92	317	0	VNV4	0.2121	VNV16	0	VNV16	0	No Message
N+6.12	B92	317	336.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B92	317	673.334	VNV4	0.2171	VNV16	0	VNV16	0	No Message
N+6.12	B94	322	0	VNV8	0.1401	VNV16	13.64	VNV4	0.0338	No Message
N+6.12	B94	322	736.25	VNV8	0.1102	VNV16	13.64	VNV4	0.0338	No Message
N+6.12	B94	322	740	VNV8	0.11	VNV16	13.64	VNV4	0.0338	No Message
N+6.12	B94	322	740	VNV8	0.1245	VNV16	14.21	VNV4	0.0259	No Message
N+6.12	B94	322	1472.5	VNV8	0.1543	VNV16	14.21	VNV4	0.0259	No Message
N+6.12	B96	318	0	VNV8	0.187	VNV16	9.86	VNV8	0.02	No Message
N+6.12	B96	318	336.667	VNV8	0.032	VNV16	9.86	VNV8	0.02	No Message
N+6.12	B96	318	673.333	VNV8	0.2725	VNV16	9.86	VNV8	0.02	No Message
N+6.12	B98	258	0	VNV1	0	VNV4	47.53	VNV4	0.1465	No Message
N+6.12	B98	258	600	VNV1	0	VNV4	47.53	VNV4	0.1465	No Message
N+6.12	B98	258	600	VNV1	0	VNV4	46.76	VNV4	0.1441	No Message
N+6.12	B98	258	1200	VNV1	0	VNV4	46.76	VNV4	0.1441	No Message
N+6.12	B115	184	0	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B115	184	370	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B115	184	740	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B118	183	30	VNV8	0.06	VNV4	8.23	VNV4	0.0099	No Message
N+6.12	B118	183	370	VNV8	0.0495	VNV4	8.23	VNV4	0.0099	No Message
N+6.12	B118	183	710	VNV8	0.0631	VNV4	8.23	VNV4	0.0099	No Message
N+6.12	B119	161	30	VNV8	0.0509	VNV16	0	VNV16	0	No Message
N+6.12	B119	161	370	VNV8	0.0423	VNV16	0	VNV16	0	No Message
N+6.12	B119	161	710	VNV8	0.0559	VNV16	0	VNV16	0	No Message
N+6.12	B120	164	30	VNV8	0.0472	VNV16	0	VNV16	0	No Message
N+6.12	B120	164	370	VNV8	0.0337	VNV16	0	VNV16	0	No Message
N+6.12	B120	164	485	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+6.12	B120	164	485	VNV8	0.1143	VNV16	0	VNV16	0	No Message
N+6.12	B120	164	710	VNV8	0.1233	VNV16	0	VNV16	0	No Message
N+6.12	B121	167	30	VNV8	0.0388	VNV16	0	VNV16	0	No Message
N+6.12	B121	167	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+6.12	B121	167	485	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+6.12	B121	167	485	VNV8	0.0979	VNV16	0	VNV16	0	No Message
N+6.12	B121	167	710	VNV8	0.1069	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+6.12	B124	178	0	VNV4	0.1354	VNV16	0	VNV16	0	No Message
N+6.12	B124	178	110	VNV4	0.0843	VNV16	0	VNV16	0	No Message
N+6.12	B124	178	110	VNV4	0.0537	VNV16	0	VNV16	0	No Message
N+6.12	B124	178	420	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B124	178	470	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B124	178	470	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B124	178	840	VNV4	0.119	VNV16	0	VNV16	0	No Message
N+6.12	B131	179	0	VNV1	0	VNV4	23.96	VNV4	0.1659	No Message
N+6.12	B131	179	127.5	VNV1	0	VNV4	23.96	VNV4	0.1659	No Message
N+6.12	B131	179	255	VNV1	0	VNV4	23.96	VNV4	0.1659	No Message
N+6.12	B132	180	0	VNV16	0	VNV16	5.08	VNV4	0.0341	No Message
N+6.12	B132	180	127.5	VNV16	0	VNV16	5.08	VNV4	0.0341	No Message
N+6.12	B132	180	255	VNV16	0	VNV16	5.08	VNV4	0.0341	No Message
N+6.12	B133	171	0	VNV8	0.0878	VNV16	29.27	VNV4	0.0355	No Message
N+6.12	B133	171	70	VNV8	0.0836	VNV16	29.27	VNV4	0.0355	No Message
N+6.12	B133	171	140	VNV8	0.0795	VNV16	29.27	VNV4	0.0355	No Message
N+6.12	B134	173	0	VNV8	0.0606	VNV16	0	VNV16	0	No Message
N+6.12	B134	173	70	VNV8	0.0579	VNV16	0	VNV16	0	No Message
N+6.12	B134	173	140	VNV8	0.0553	VNV16	0	VNV16	0	No Message
N+6.12	B135	181	0	VNV16	0.0755	VNV16	0	VNV16	0	No Message
N+6.12	B135	181	87.5	VNV16	0.0936	VNV16	0	VNV16	0	No Message
N+6.12	B135	181	175	VNV16	0.1117	VNV16	0	VNV16	0	No Message
N+6.12	B137	150	30	VNV8	0.0984	VNV16	0	VNV16	0	No Message
N+6.12	B137	150	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+6.12	B137	150	695	VNV8	0.0993	VNV16	0	VNV16	0	No Message
N+6.12	B138	151	30	VNV16	0.1295	VNV12	9.86	VNV4	0.0145	No Message
N+6.12	B138	151	287.5	VNV16	0.0763	VNV12	9.86	VNV4	0.0145	No Message
N+6.12	B138	151	545	VNV16	0.124	VNV12	9.86	VNV4	0.0145	No Message
N+6.12	B139	152	30	VNV16	0.0871	VNV16	0	VNV16	0	No Message
N+6.12	B139	152	110	VNV16	0.0795	VNV16	0	VNV16	0	No Message
N+6.12	B139	152	110	VNV16	0.0661	VNV16	0	VNV16	0	No Message
N+6.12	B139	152	420	VNV16	0.0545	VNV16	0	VNV16	0	No Message
N+6.12	B139	152	470	VNV16	0.0526	VNV16	0	VNV16	0	No Message
N+6.12	B139	152	470	VNV16	0.0562	VNV16	0	VNV16	0	No Message
N+6.12	B139	152	810	VNV16	0.0888	VNV16	0	VNV16	0	No Message
N+6.12	B140	153	30	VNV16	0.166	VNV16	9.86	VNV8	0.0149	No Message
N+6.12	B140	153	240	VNV16	0.1345	VNV16	9.86	VNV8	0.0149	No Message
N+6.12	B140	153	450	VNV16	0.1886	VNV16	9.86	VNV8	0.0149	No Message
N+6.12	B141	154	0	VNV8	0.2082	VNV4	23.82	VNV4	0.0654	No Message
N+6.12	B141	154	70	VNV8	0.2252	VNV4	23.82	VNV4	0.0654	No Message
N+6.12	B141	154	140	VNV8	0.2421	VNV4	23.82	VNV4	0.0654	No Message
N+6.12	B143	155	0	VNV1	0	VNV8	64.04	VNV8	0.1757	No Message
N+6.12	B143	155	533.333	VNV1	0	VNV8	64.04	VNV8	0.1757	No Message
N+6.12	B143	155	533.333	VNV1	0	VNV16	29.27	VNV4	0.0196	No Message
N+6.12	B143	155	870	VNV1	0	VNV16	29.27	VNV4	0.0196	No Message
N+6.12	B143	155	1206.667	VNV1	0	VNV16	29.27	VNV4	0.0196	No Message
N+6.12	B143	155	1206.667	VNV1	0	VNV8	74.64	VNV8	0.2048	No Message
N+6.12	B143	155	1740	VNV1	0	VNV8	74.64	VNV8	0.2048	No Message
N+6.12	B145	156	0	VNV8	0.2411	VNV8	26.16	VNV8	0.0718	No Message
N+6.12	B145	156	70	VNV8	0.2241	VNV8	26.16	VNV8	0.0718	No Message
N+6.12	B145	156	140	VNV8	0.2071	VNV8	26.16	VNV8	0.0718	No Message
N+6.12	B146	172	0	VNV8	0.239	VNV4	12.24	VNV4	0.0599	No Message
N+6.12	B146	172	108.75	VNV8	0.2325	VNV4	12.24	VNV4	0.0599	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+6.12	B146	172	217.5	VNV8	0.226	VNV4	12.24	VNV4	0.0599	No Message
N+6.12	B152	320	7.5	VNV1	0	VNV8	8.34	VNV8	0.0507	No Message
N+6.12	B152	320	112.5	VNV1	0	VNV8	8.34	VNV8	0.0507	No Message
N+6.12	B152	320	217.5	VNV1	0	VNV8	8.34	VNV8	0.0507	No Message
N+6.12	B160	323	7.5	VNV1	0	VNV8	8.77	VNV8	0.0533	No Message
N+6.12	B160	323	112.5	VNV1	0	VNV8	8.77	VNV8	0.0533	No Message
N+6.12	B160	323	217.5	VNV1	0	VNV8	8.77	VNV8	0.0533	No Message
N+6.12	B165	174	0	VNV1	0.1328	VNV8	12.02	VNV8	0.0731	No Message
N+6.12	B165	174	108.75	VNV1	0.1284	VNV8	12.02	VNV8	0.0731	No Message
N+6.12	B165	174	217.5	VNV1	0.1241	VNV8	12.02	VNV8	0.0731	No Message
N+6.12	B168	325	7.5	VNV8	0.0273	VNV12	2.98	VNV8	0.0153	No Message
N+6.12	B168	325	336.667	VNV16	0	VNV12	2.98	VNV8	0.0153	No Message
N+6.12	B168	325	665.833	VNV8	0.0297	VNV12	2.98	VNV8	0.0153	No Message
N+6.12	B173	326	7.5	VNV4	0.0224	VNV16	0	VNV16	0	No Message
N+6.12	B173	326	336.667	VNV16	0	VNV16	0	VNV16	0	No Message
N+6.12	B173	326	665.834	VNV4	0.0237	VNV16	0	VNV16	0	No Message
N+6.12	B176	327	7.5	VNV8	0.0309	VNV12	2.68	VNV8	0.0177	No Message
N+6.12	B176	327	336.667	VNV16	0	VNV12	2.68	VNV8	0.0177	No Message
N+6.12	B176	327	665.833	VNV8	0.0234	VNV12	2.68	VNV8	0.0177	No Message
N+3.06	B2	347	0	VNV1	0.0268	VNV16	2.64	VNV4	0.0162	No Message
N+3.06	B2	347	72.5	VNV1	0.0306	VNV16	2.64	VNV4	0.0162	No Message
N+3.06	B2	347	145	VNV1	0.0345	VNV16	2.64	VNV4	0.0162	No Message
N+3.06	B3	103	0	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B3	103	362.5	VNV16	0	VNV16	0	VNV16	0	No Message
N+3.06	B3	103	725	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B4	104	0	VNV16	0.0206	VNV16	0	VNV16	0	No Message
N+3.06	B4	104	287.5	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B4	104	575	VNV16	0.0216	VNV16	0	VNV16	0	No Message
N+3.06	B5	105	0	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B5	105	420	VNV16	0	VNV16	0	VNV16	0	No Message
N+3.06	B5	105	840	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B18	348	0	VNV1	0.02	VNV16	2.5	VNV4	0.0171	No Message
N+3.06	B18	348	52.5	VNV1	0.0192	VNV16	2.5	VNV4	0.0171	No Message
N+3.06	B18	348	105	VNV1	0.0184	VNV16	2.5	VNV4	0.0171	No Message
N+3.06	B19	92	0	VNV8	0.104	VNV16	7.31	VNV4	0.0321	No Message
N+3.06	B19	92	37.5	VNV8	0.1055	VNV16	7.31	VNV4	0.0321	No Message
N+3.06	B19	92	75	VNV8	0.107	VNV16	7.31	VNV4	0.0321	No Message
N+3.06	B20	94	0	VNV8	0.1003	VNV16	7.97	VNV4	0.035	No Message
N+3.06	B20	94	37.5	VNV8	0.1018	VNV16	7.97	VNV4	0.035	No Message
N+3.06	B20	94	75	VNV8	0.1033	VNV16	7.97	VNV4	0.035	No Message
N+3.06	B21	97	0	VNV8	0.1132	VNV16	7.56	VNV4	0.0396	No Message
N+3.06	B21	97	37.5	VNV8	0.1147	VNV16	7.56	VNV4	0.0396	No Message
N+3.06	B21	97	75	VNV8	0.1162	VNV16	7.56	VNV4	0.0396	No Message
N+3.06	B22	100	0	VNV1	0	VNV4	11.31	VNV4	0.0688	No Message
N+3.06	B22	100	37.5	VNV1	0	VNV4	11.31	VNV4	0.0688	No Message
N+3.06	B22	100	75	VNV1	0	VNV4	11.31	VNV4	0.0688	No Message
N+3.06	B33	350	0	VNV8	0.0744	VNV4	9.12	VNV4	0.0495	No Message
N+3.06	B33	350	57.5	VNV8	0.0948	VNV4	9.12	VNV4	0.0495	No Message
N+3.06	B33	350	115	VNV8	0.1153	VNV4	9.12	VNV4	0.0495	No Message
N+3.06	B34	86	30	VNV8	0.081	VNV16	0	VNV16	0	No Message
N+3.06	B34	86	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B34	86	695	VNV8	0.0811	VNV16	0	VNV16	0	No Message
N+3.06	B35	87	30	VNV8	0.0517	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+3.06	B35	87	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B35	87	545	VNV8	0.0547	VNV16	0	VNV16	0	No Message
N+3.06	B36	88	30	VNV8	0.1008	VNV16	0	VNV16	0	No Message
N+3.06	B36	88	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B36	88	810	VNV8	0.1076	VNV16	0	VNV16	0	No Message
N+3.06	B37	253	30	VNV12	0.0418	VNV16	9.86	VNV8	0.0143	No Message
N+3.06	B37	253	150	VNV12	0.0418	VNV16	9.86	VNV8	0.0143	No Message
N+3.06	B37	253	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B37	253	240	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B37	253	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B37	253	300	VNV4	0.0525	VNV16	0	VNV16	0	No Message
N+3.06	B37	253	450	VNV4	0.0431	VNV16	0	VNV16	0	No Message
N+3.06	B43	256	0	VNV16	0.0335	VNV12	8.23	VNV4	0.0144	No Message
N+3.06	B43	256	70	VNV16	0.0335	VNV12	8.23	VNV4	0.0144	No Message
N+3.06	B43	256	140	VNV16	0.0335	VNV12	8.23	VNV4	0.0144	No Message
N+3.06	B47	257	0	VNV8	0.0278	VNV16	8.23	VNV4	0.0173	No Message
N+3.06	B47	257	70	VNV8	0.0239	VNV16	8.23	VNV4	0.0173	No Message
N+3.06	B47	257	70	VNV16	0.0123	VNV16	7.12	VNV4	0.0248	No Message
N+3.06	B47	257	105	VNV16	0.0085	VNV16	7.12	VNV4	0.0248	No Message
N+3.06	B47	257	140	VNV16	0.0116	VNV16	7.12	VNV4	0.0248	No Message
N+3.06	B47	257	140	VNV1	0	VNV4	11.72	VNV4	0.0712	No Message
N+3.06	B47	257	210	VNV1	0	VNV4	11.72	VNV4	0.0712	No Message
N+3.06	B55	254	0	VNV8	0.009	VNV12	6.42	VNV8	0.0158	No Message
N+3.06	B55	254	83.333	VNV8	0.0102	VNV12	6.42	VNV8	0.0158	No Message
N+3.06	B55	254	83.333	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+3.06	B55	254	125	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+3.06	B55	254	166.667	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+3.06	B55	254	166.667	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+3.06	B55	254	250	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N+3.06	B56	255	0	VNV8	0.155	VNV16	0	VNV16	0	No Message
N+3.06	B56	255	100	VNV8	0.152	VNV16	0	VNV16	0	No Message
N+3.06	B56	255	200	VNV8	0.149	VNV16	0	VNV16	0	No Message
N+3.06	B58	349	0	VNV8	0.0176	VNV16	0	VNV16	0	No Message
N+3.06	B58	349	370	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B58	349	740	VNV8	0.0171	VNV16	0	VNV16	0	No Message
N+3.06	B59	93	30	VNV8	0.0639	VNV16	0	VNV16	0	No Message
N+3.06	B59	93	370	VNV8	0.0504	VNV16	0	VNV16	0	No Message
N+3.06	B59	93	710	VNV8	0.0591	VNV16	0	VNV16	0	No Message
N+3.06	B60	95	30	VNV8	0.0564	VNV16	0	VNV16	0	No Message
N+3.06	B60	95	370	VNV8	0.0429	VNV16	0	VNV16	0	No Message
N+3.06	B60	95	710	VNV8	0.0514	VNV16	0	VNV16	0	No Message
N+3.06	B61	98	30	VNV8	0.0504	VNV16	0	VNV16	0	No Message
N+3.06	B61	98	370	VNV8	0.0368	VNV16	0	VNV16	0	No Message
N+3.06	B61	98	710	VNV8	0.0473	VNV16	0	VNV16	0	No Message
N+3.06	B62	101	30	VNV8	0.0308	VNV16	8.23	VNV4	0.0183	No Message
N+3.06	B62	101	116.667	VNV8	0.0381	VNV16	8.23	VNV4	0.0183	No Message
N+3.06	B62	101	116.667	VNV8	0.0371	VNV16	0	VNV16	0	No Message
N+3.06	B62	101	233.333	VNV8	0.0382	VNV16	0	VNV16	0	No Message
N+3.06	B62	101	233.333	VNV8	0.0368	VNV16	0	VNV16	0	No Message
N+3.06	B62	101	350	VNV8	0.0384	VNV16	0	VNV16	0	No Message
N+3.06	B62	101	350	VNV8	0.1072	VNV16	8.23	VNV4	0.0175	No Message
N+3.06	B62	101	370	VNV8	0.1062	VNV16	8.23	VNV4	0.0175	No Message
N+3.06	B62	101	710	VNV8	0.0892	VNV16	8.23	VNV4	0.0175	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+3.06	B81	111	0	VNV8	0.0944	VNV4	12.91	VNV4	0.07	No Message
N+3.06	B81	111	57.5	VNV8	0.1282	VNV4	12.91	VNV4	0.07	No Message
N+3.06	B81	111	115	VNV8	0.1619	VNV4	12.91	VNV4	0.07	No Message
N+3.06	B82	83	30	VNV8	0.1796	VNV16	0	VNV16	0	No Message
N+3.06	B82	83	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B82	83	695	VNV8	0.179	VNV16	0	VNV16	0	No Message
N+3.06	B83	84	30	VNV8	0.1348	VNV16	0	VNV16	0	No Message
N+3.06	B83	84	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B83	84	545	VNV8	0.1348	VNV16	0	VNV16	0	No Message
N+3.06	B84	85	30	VNV8	0.1741	VNV16	0	VNV16	0	No Message
N+3.06	B84	85	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B84	85	810	VNV8	0.1696	VNV16	0	VNV16	0	No Message
N+3.06	B99	340	0	VNV16	0.0457	VNV16	8.23	VNV8	0.0211	No Message
N+3.06	B99	340	495	VNV16	0.0308	VNV16	8.23	VNV8	0.0211	No Message
N+3.06	B99	340	725	VNV16	0.0353	VNV16	8.23	VNV8	0.0211	No Message
N+3.06	B99	340	725	VNV5	0	VNV4	9.98	VNV4	0.0607	No Message
N+3.06	B99	340	990	VNV5	0.0015	VNV4	9.98	VNV4	0.0607	No Message
N+3.06	B109	339	0	VNV12	0.0031	VNV16	8.23	VNV8	0.0228	No Message
N+3.06	B109	339	225	VNV12	0.0031	VNV16	8.23	VNV8	0.0228	No Message
N+3.06	B109	339	450	VNV12	0.0031	VNV16	8.23	VNV8	0.0228	No Message
N+3.06	B117	112	0	VNV8	0.0173	VNV16	0	VNV16	0	No Message
N+3.06	B117	112	370	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N+3.06	B117	112	740	VNV8	0.0168	VNV16	0	VNV16	0	No Message
N+3.06	B118	109	30	VNV8	0.0572	VNV16	0	VNV16	0	No Message
N+3.06	B118	109	370	VNV16	0.0437	VNV16	0	VNV16	0	No Message
N+3.06	B118	109	710	VNV8	0.0572	VNV16	0	VNV16	0	No Message
N+3.06	B119	96	30	VNV8	0.0509	VNV16	0	VNV16	0	No Message
N+3.06	B119	96	370	VNV8	0.0391	VNV16	0	VNV16	0	No Message
N+3.06	B119	96	710	VNV8	0.0527	VNV16	0	VNV16	0	No Message
N+3.06	B120	99	30	VNV8	0.036	VNV16	0	VNV16	0	No Message
N+3.06	B120	99	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+3.06	B120	99	485	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+3.06	B120	99	485	VNV8	0.09	VNV16	0	VNV16	0	No Message
N+3.06	B120	99	710	VNV8	0.099	VNV16	0	VNV16	0	No Message
N+3.06	B121	102	30	VNV8	0.055	VNV16	8.17	VNV4	0.0236	No Message
N+3.06	B121	102	335	VNV8	0.0428	VNV16	8.17	VNV4	0.0236	No Message
N+3.06	B121	102	335	VNV16	0.0068	VNV16	8.23	VNV4	0.0152	No Message
N+3.06	B121	102	370	VNV16	0.0068	VNV16	8.23	VNV4	0.0152	No Message
N+3.06	B121	102	485	VNV16	0.0068	VNV16	8.23	VNV4	0.0152	No Message
N+3.06	B121	102	485	VNV8	0.0955	VNV16	8.23	VNV4	0.0152	No Message
N+3.06	B121	102	710	VNV8	0.1045	VNV16	8.23	VNV4	0.0152	No Message
N+3.06	B124	106	0	VNV4	0.1008	VNV16	0	VNV16	0	No Message
N+3.06	B124	106	110	VNV4	0.0584	VNV16	0	VNV16	0	No Message
N+3.06	B124	106	110	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+3.06	B124	106	420	VNV16	0	VNV16	0	VNV16	0	No Message
N+3.06	B124	106	470	VNV16	0	VNV16	0	VNV16	0	No Message
N+3.06	B124	106	470	VNV16	0	VNV16	0	VNV16	0	No Message
N+3.06	B124	106	840	VNV4	0.0863	VNV16	0	VNV16	0	No Message
N+3.06	B131	107	0	VNV1	0	VNV4	20.22	VNV4	0.14	No Message
N+3.06	B131	107	127.5	VNV1	0	VNV4	20.22	VNV4	0.14	No Message
N+3.06	B131	107	255	VNV1	0	VNV4	20.22	VNV4	0.14	No Message
N+3.06	B132	108	0	VNV16	0	VNV16	5.36	VNV4	0.0274	No Message
N+3.06	B132	108	127.5	VNV16	0	VNV16	5.36	VNV4	0.0274	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N+3.06	B132	108	255	VNV16	0	VNV16	5.36	VNV4	0.0274	No Message
N+3.06	B133	315	0	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+3.06	B133	315	70	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+3.06	B133	315	140	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N+3.06	B136	110	0	VNV8	0.0608	VNV4	8.85	VNV4	0.048	No Message
N+3.06	B136	110	57.5	VNV8	0.0791	VNV4	8.85	VNV4	0.048	No Message
N+3.06	B136	110	115	VNV8	0.0974	VNV4	8.85	VNV4	0.048	No Message
N+3.06	B137	89	30	VNV8	0.0741	VNV16	0	VNV16	0	No Message
N+3.06	B137	89	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N+3.06	B137	89	695	VNV8	0.0732	VNV16	0	VNV16	0	No Message
N+3.06	B138	90	30	VNV16	0.1211	VNV16	0	VNV16	0	No Message
N+3.06	B138	90	287.5	VNV16	0.0679	VNV16	0	VNV16	0	No Message
N+3.06	B138	90	545	VNV16	0.1176	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	30	VNV16	0.0824	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	110	VNV16	0.0748	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	110	VNV16	0.0614	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	420	VNV16	0.0498	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	470	VNV16	0.0479	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	470	VNV16	0.0511	VNV16	0	VNV16	0	No Message
N+3.06	B139	91	810	VNV16	0.0836	VNV16	0	VNV16	0	No Message
N+3.06	B140	116	30	VNV8	0.1567	VNV16	9.86	VNV8	0.0161	No Message
N+3.06	B140	116	240	VNV8	0.0992	VNV16	9.86	VNV8	0.0161	No Message
N+3.06	B140	116	450	VNV8	0.1585	VNV16	9.86	VNV8	0.0161	No Message
N+3.06	B146	113	0	VNV8	0.1568	VNV16	0	VNV16	0	No Message
N+3.06	B146	113	112.5	VNV8	0.1464	VNV16	0	VNV16	0	No Message
N+3.06	B146	113	225	VNV8	0.1359	VNV16	0	VNV16	0	No Message
N-0.05	B1	344	0	VNV12	0.0205	VNV16	8.23	VNV4	0.0158	No Message
N-0.05	B1	344	102.5	VNV12	0.0205	VNV16	8.23	VNV4	0.0158	No Message
N-0.05	B1	344	205	VNV12	0.0205	VNV16	8.23	VNV4	0.0158	No Message
N-0.05	B3	60	0	VNV16	0	VNV12	7.74	VNV8	0.0246	No Message
N-0.05	B3	60	165	VNV16	0	VNV12	7.74	VNV8	0.0246	No Message
N-0.05	B3	60	165	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B3	60	362.5	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B3	60	445	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B3	60	445	VNV12	0.0022	VNV16	8.23	VNV8	0.0206	No Message
N-0.05	B3	60	725	VNV12	0.0022	VNV16	8.23	VNV8	0.0206	No Message
N-0.05	B4	61	0	VNV12	0.0079	VNV16	8.23	VNV8	0.0173	No Message
N-0.05	B4	61	287.5	VNV12	0.0079	VNV16	8.23	VNV8	0.0173	No Message
N-0.05	B4	61	287.5	VNV12	0.0059	VNV16	8.23	VNV8	0.0188	No Message
N-0.05	B4	61	575	VNV12	0.0059	VNV16	8.23	VNV8	0.0188	No Message
N-0.05	B5	62	0	VNV12	0.0066	VNV16	8.23	VNV8	0.0192	No Message
N-0.05	B5	62	280	VNV12	0.0066	VNV16	8.23	VNV8	0.0192	No Message
N-0.05	B5	62	280	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B5	62	420	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B5	62	560	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B5	62	560	VNV16	0	VNV16	7.71	VNV4	0.0213	No Message
N-0.05	B5	62	840	VNV16	0	VNV16	7.71	VNV4	0.0213	No Message
N-0.05	B6	63	0	VNV12	0.0074	VNV12	8.23	VNV4	0.0133	No Message
N-0.05	B6	63	225	VNV12	0.0074	VNV12	8.23	VNV4	0.0133	No Message
N-0.05	B6	63	450	VNV12	0.0074	VNV12	8.23	VNV4	0.0133	No Message
N-0.05	B10	64	0	VNV12	0.0094	VNV16	8.23	VNV8	0.0158	No Message
N-0.05	B10	64	331	VNV12	0.0094	VNV16	8.23	VNV8	0.0158	No Message
N-0.05	B10	64	331	VNV16	0	VNV16	0	VNV16	0	No Message


Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N-0.05	B10	64	496.5	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B10	64	662	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B10	64	662	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B10	64	993	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	0	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	342.333	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	342.333	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	513.5	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	684.667	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	684.667	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B13	250	1027	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B17	343	0	VNV16	0.0155	VNV16	8.23	VNV4	0.0152	No Message
N-0.05	B17	343	52.5	VNV16	0.0155	VNV16	8.23	VNV4	0.0152	No Message
N-0.05	B17	343	105	VNV8	0.016	VNV16	8.23	VNV4	0.0152	No Message
N-0.05	B19	36	0	VNV1	0	VNV16	7.71	VNV4	0.0329	No Message
N-0.05	B19	36	37.5	VNV1	0	VNV16	7.71	VNV4	0.0329	No Message
N-0.05	B19	36	75	VNV1	0	VNV16	7.71	VNV4	0.0329	No Message
N-0.05	B20	38	0	VNV1	0	VNV16	8.23	VNV4	0.0245	No Message
N-0.05	B20	38	37.5	VNV1	0	VNV16	8.23	VNV4	0.0245	No Message
N-0.05	B20	38	75	VNV1	0	VNV16	8.23	VNV4	0.0245	No Message
N-0.05	B21	41	0	VNV1	0	VNV16	8.23	VNV4	0.0283	No Message
N-0.05	B21	41	37.5	VNV1	0	VNV16	8.23	VNV4	0.0283	No Message
N-0.05	B21	41	75	VNV1	0	VNV16	8.23	VNV4	0.0283	No Message
N-0.05	B22	44	0	VNV1	0	VNV16	8.23	VNV4	0.0171	No Message
N-0.05	B22	44	37.5	VNV1	0	VNV16	8.23	VNV4	0.0171	No Message
N-0.05	B22	44	75	VNV1	0	VNV16	8.23	VNV4	0.0171	No Message
N-0.05	B23	49	0	VNV1	0	VNV16	9.86	VNV4	0.0243	No Message
N-0.05	B23	49	52.5	VNV1	0	VNV16	9.86	VNV4	0.0243	No Message
N-0.05	B23	49	105	VNV1	0	VNV16	9.86	VNV4	0.0243	No Message
N-0.05	B27	53	0	VNV8	0.1139	VNV16	0	VNV16	0	No Message
N-0.05	B27	53	37.5	VNV8	0.112	VNV16	0	VNV16	0	No Message
N-0.05	B27	53	75	VNV8	0.1101	VNV16	0	VNV16	0	No Message
N-0.05	B31	247	0	VNV8	0.0923	VNV16	7.25	VNV4	0.0217	No Message
N-0.05	B31	247	52.5	VNV8	0.0941	VNV16	7.25	VNV4	0.0217	No Message
N-0.05	B31	247	105	VNV8	0.0959	VNV16	7.25	VNV4	0.0217	No Message
N-0.05	B32	345	0	VNV8	0.0908	VNV16	7.68	VNV4	0.0357	No Message
N-0.05	B32	345	87.5	VNV8	0.0596	VNV16	7.68	VNV4	0.0357	No Message
N-0.05	B32	345	175	VNV8	0.081	VNV16	7.68	VNV4	0.0357	No Message
N-0.05	B34	22	30	VNV8	0.0708	VNV16	0	VNV16	0	No Message
N-0.05	B34	22	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B34	22	695	VNV8	0.0735	VNV16	0	VNV16	0	No Message
N-0.05	B35	23	30	VNV8	0.0456	VNV16	0	VNV16	0	No Message
N-0.05	B35	23	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B35	23	545	VNV8	0.0473	VNV16	0	VNV16	0	No Message
N-0.05	B36	24	30	VNV8	0.0977	VNV16	0	VNV16	0	No Message
N-0.05	B36	24	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B36	24	810	VNV8	0.1027	VNV16	0	VNV16	0	No Message
N-0.05	B37	25	30	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B37	25	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B37	25	150	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B37	25	240	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B37	25	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B37	25	300	VNV16	0.0418	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N-0.05	B37	25	450	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B38	26	0	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B38	26	70	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B38	26	140	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B39	27	0	VNV8	0.1237	VNV16	0	VNV16	0	No Message
N-0.05	B39	27	411.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B39	27	823	VNV8	0.1144	VNV16	0	VNV16	0	No Message
N-0.05	B41	245	30	VNV8	0.12	VNV16	0	VNV16	0	No Message
N-0.05	B41	245	458.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B41	245	887	VNV8	0.1317	VNV16	0	VNV16	0	No Message
N-0.05	B42	246	0	VNV16	0.0324	VNV16	9.86	VNV8	0.0176	No Message
N-0.05	B42	246	70	VNV16	0.0193	VNV16	9.86	VNV8	0.0176	No Message
N-0.05	B42	246	140	VNV16	0.0304	VNV16	9.86	VNV8	0.0176	No Message
N-0.05	B43	47	0	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B43	47	70	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B43	47	140	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B44	249	0	VNV8	0.0189	VNV16	7.34	VNV8	0.0125	No Message
N-0.05	B44	249	70	VNV8	0.0165	VNV16	7.34	VNV8	0.0125	No Message
N-0.05	B44	249	140	VNV8	0.0163	VNV16	7.34	VNV8	0.0125	No Message
N-0.05	B55	251	0	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N-0.05	B55	251	83.333	VNV16	0.0251	VNV16	0	VNV16	0	No Message
N-0.05	B55	251	83.333	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B55	251	125	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B55	251	166.667	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B55	251	166.667	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B55	251	250	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B56	252	0	VNV8	0.1031	VNV16	0	VNV16	0	No Message
N-0.05	B56	252	100	VNV8	0.0852	VNV16	0	VNV16	0	No Message
N-0.05	B56	252	200	VNV8	0.0983	VNV16	0	VNV16	0	No Message
N-0.05	B57	342	0	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B57	342	370	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B57	342	740	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B59	37	30	VNV8	0.0449	VNV16	0	VNV16	0	No Message
N-0.05	B59	37	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B59	37	710	VNV8	0.0445	VNV16	0	VNV16	0	No Message
N-0.05	B60	39	30	VNV8	0.0382	VNV16	0	VNV16	0	No Message
N-0.05	B60	39	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B60	39	710	VNV8	0.0399	VNV16	0	VNV16	0	No Message
N-0.05	B61	42	30	VNV8	0.0354	VNV16	0	VNV16	0	No Message
N-0.05	B61	42	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B61	42	710	VNV8	0.0405	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	30	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	116.667	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	116.667	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	233.333	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	233.333	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	350	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B62	45	350	VNV8	0.0655	VNV8	8.23	VNV4	0.0126	No Message
N-0.05	B62	45	370	VNV8	0.0645	VNV8	8.23	VNV4	0.0126	No Message
N-0.05	B62	45	710	VNV16	0.0546	VNV8	8.23	VNV4	0.0126	No Message
N-0.05	B63	54	30	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B63	54	370	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B63	54	710	VNV16	0	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N-0.05	B64	48	0	VNV8	0.028	VNV16	9.86	VNV4	0.0135	No Message
N-0.05	B64	48	70	VNV8	0.029	VNV16	9.86	VNV4	0.0135	No Message
N-0.05	B64	48	70	VNV8	0.0282	VNV16	9.86	VNV8	0.0197	No Message
N-0.05	B64	48	140	VNV8	0.0288	VNV16	9.86	VNV8	0.0197	No Message
N-0.05	B64	48	140	VNV8	0.0287	VNV8	7.75	VNV8	0.042	No Message
N-0.05	B64	48	210	VNV8	0.0283	VNV8	7.75	VNV8	0.042	No Message
N-0.05	B64	48	210	VNV8	0.0603	VNV16	9.86	VNV8	0.0339	No Message
N-0.05	B64	48	285	VNV8	0.0556	VNV16	9.86	VNV8	0.0339	No Message
N-0.05	B64	48	570	VNV8	0.0654	VNV16	9.86	VNV8	0.0339	No Message
N-0.05	B65	248	30	VNV8	0.0235	VNV16	7.34	VNV4	0.0228	No Message
N-0.05	B65	248	315	VNV8	0.0135	VNV16	7.34	VNV4	0.0228	No Message
N-0.05	B65	248	600	VNV8	0.0228	VNV16	7.34	VNV4	0.0228	No Message
N-0.05	B80	346	0	VNV8	0.1025	VNV4	8.23	VNV4	0.0446	No Message
N-0.05	B80	346	87.5	VNV16	0.0752	VNV4	8.23	VNV4	0.0446	No Message
N-0.05	B80	346	175	VNV8	0.1023	VNV4	8.23	VNV4	0.0446	No Message
N-0.05	B82	16	30	VNV8	0.1673	VNV16	0	VNV16	0	No Message
N-0.05	B82	16	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B82	16	695	VNV8	0.1722	VNV16	0	VNV16	0	No Message
N-0.05	B83	17	30	VNV8	0.1285	VNV16	0	VNV16	0	No Message
N-0.05	B83	17	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B83	17	545	VNV8	0.1273	VNV16	0	VNV16	0	No Message
N-0.05	B84	18	30	VNV8	0.1668	VNV16	0	VNV16	0	No Message
N-0.05	B84	18	420	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B84	18	810	VNV8	0.1638	VNV16	0	VNV16	0	No Message
N-0.05	B85	19	30	VNV16	0.1177	VNV16	9.86	VNV8	0.0135	No Message
N-0.05	B85	19	225	VNV16	0.0908	VNV16	9.86	VNV8	0.0135	No Message
N-0.05	B85	19	420	VNV16	0.1445	VNV16	9.86	VNV8	0.0135	No Message
N-0.05	B89	20	30	VNV8	0.2723	VNV16	0	VNV16	0	No Message
N-0.05	B89	20	496.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B89	20	963	VNV8	0.2901	VNV16	0	VNV16	0	No Message
N-0.05	B95	21	30	VNV8	0.3019	VNV16	0	VNV16	0	No Message
N-0.05	B95	21	513.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B95	21	997	VNV8	0.2833	VNV16	0	VNV16	0	No Message
N-0.05	B107	50	30	VNV8	0.0377	VNV16	9.86	VNV4	0.0276	No Message
N-0.05	B107	50	315	VNV8	0.026	VNV16	9.86	VNV4	0.0276	No Message
N-0.05	B107	50	600	VNV8	0.0402	VNV16	9.86	VNV4	0.0276	No Message
N-0.05	B108	57	30	VNV8	0.0247	VNV16	7.34	VNV4	0.0248	No Message
N-0.05	B108	57	315	VNV8	0.0157	VNV16	7.34	VNV4	0.0248	No Message
N-0.05	B108	57	600	VNV8	0.0257	VNV16	7.34	VNV4	0.0248	No Message
N-0.05	B116	240	0	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B116	240	370	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B116	240	740	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B119	40	30	VNV8	0.0422	VNV16	0	VNV16	0	No Message
N-0.05	B119	40	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B119	40	710	VNV8	0.0425	VNV16	0	VNV16	0	No Message
N-0.05	B120	43	30	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B120	43	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B120	43	485	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B120	43	485	VNV8	0.0814	VNV16	0	VNV16	0	No Message
N-0.05	B120	43	710	VNV8	0.0904	VNV16	0	VNV16	0	No Message
N-0.05	B121	46	30	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B121	46	370	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B121	46	485	VNV16	0.0335	VNV16	0	VNV16	0	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N-0.05	B121	46	485	VNV8	0.067	VNV16	0	VNV16	0	No Message
N-0.05	B121	46	710	VNV8	0.076	VNV16	0	VNV16	0	No Message
N-0.05	B122	55	30	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B122	55	370	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B122	55	710	VNV16	0.0424	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	0	VNV4	0.1005	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	110	VNV4	0.0582	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	110	VNV16	0.0335	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	420	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	470	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	470	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B124	68	840	VNV4	0.0864	VNV16	0	VNV16	0	No Message
N-0.05	B131	69	0	VNV1	0	VNV4	19.65	VNV4	0.136	No Message
N-0.05	B131	69	127.5	VNV1	0	VNV4	19.65	VNV4	0.136	No Message
N-0.05	B131	69	255	VNV1	0	VNV4	19.65	VNV4	0.136	No Message
N-0.05	B132	70	0	VNV16	0	VNV16	5.7	VNV4	0.0254	No Message
N-0.05	B132	70	127.5	VNV16	0	VNV16	5.7	VNV4	0.0254	No Message
N-0.05	B132	70	255	VNV16	0	VNV16	5.7	VNV4	0.0254	No Message
N-0.05	B133	51	0	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B133	51	70	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B133	51	140	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B134	58	0	VNV8	0.0197	VNV16	7.34	VNV8	0.0138	No Message
N-0.05	B134	58	70	VNV8	0.0173	VNV16	7.34	VNV8	0.0138	No Message
N-0.05	B134	58	140	VNV16	0.0158	VNV16	7.34	VNV8	0.0138	No Message
N-0.05	B137	28	30	VNV8	0.0617	VNV16	0	VNV16	0	No Message
N-0.05	B137	28	362.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B137	28	695	VNV8	0.0637	VNV16	0	VNV16	0	No Message
N-0.05	B138	29	30	VNV8	0.0435	VNV16	0	VNV16	0	No Message
N-0.05	B138	29	287.5	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B138	29	545	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	30	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	110	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	110	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	420	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	470	VNV16	0	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	470	VNV8	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B139	30	810	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B140	31	30	VNV16	0.1272	VNV16	0	VNV16	0	No Message
N-0.05	B140	31	240	VNV16	0.0808	VNV16	0	VNV16	0	No Message
N-0.05	B140	31	450	VNV16	0.135	VNV16	0	VNV16	0	No Message
N-0.05	B141	32	0	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B141	32	70	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B141	32	140	VNV16	0.0418	VNV16	0	VNV16	0	No Message
N-0.05	B142	33	0	VNV8	0.1509	VNV8	9.86	VNV8	0.0134	No Message
N-0.05	B142	33	411.5	VNV16	0.0418	VNV8	9.86	VNV8	0.0134	No Message
N-0.05	B142	33	823	VNV8	0.1408	VNV8	9.86	VNV8	0.0134	No Message
N-0.05	B144	34	30	VNV8	0.1483	VNV8	9.86	VNV8	0.0138	No Message
N-0.05	B144	34	458.5	VNV16	0.0418	VNV8	9.86	VNV8	0.0138	No Message
N-0.05	B144	34	887	VNV8	0.1617	VNV8	9.86	VNV8	0.0138	No Message
N-0.05	B145	35	0	VNV16	0.0357	VNV16	9.86	VNV8	0.0184	No Message
N-0.05	B145	35	70	VNV16	0.0212	VNV16	9.86	VNV8	0.0184	No Message
N-0.05	B145	35	140	VNV16	0.0337	VNV16	9.86	VNV8	0.0184	No Message
N-0.05	B146	52	0	VNV8	0.2638	VNV16	8.23	VNV4	0.0441	No Message

Story	Label	Unique Name	Station cm	V Combo	At Shear cm ² /cm	Torsion Long Combo	AI Torsion cm ²	Torsion Tran Combo	At Torsion cm ² /cm	Warnings
N-0.05	B146	52	112.5	VNV8	0.2581	VNV16	8.23	VNV4	0.0441	No Message
N-0.05	B146	52	225	VNV8	0.2525	VNV16	8.23	VNV4	0.0441	No Message
N-0.05	B155	56	30	VNV8	0.2566	VNV16	9.86	VNV4	0.019	No Message
N-0.05	B155	56	127.5	VNV8	0.2517	VNV16	9.86	VNV4	0.019	No Message
N-0.05	B155	56	225	VNV8	0.2468	VNV16	9.86	VNV4	0.019	No Message
N-0.05	B165	59	0	VNV1	0.0445	VNV4	12.83	VNV4	0.0831	No Message
N-0.05	B165	59	112.5	VNV1	0.0484	VNV4	12.83	VNV4	0.0831	No Message
N-0.05	B165	59	225	VNV1	0	VNV4	12.83	VNV4	0.0831	No Message
N-0.05	B166	65	0	VNV16	0.0341	VNV16	0	VNV16	0	No Message
N-0.05	B166	65	225	VNV16	0.0482	VNV16	0	VNV16	0	No Message
N-0.05	B166	65	450	VNV16	0.0623	VNV16	0	VNV16	0	No Message
N-0.05	B170	66	0	VNV8	0.043	VNV16	0	VNV16	0	No Message
N-0.05	B170	66	496.5	VNV16	0.0126	VNV16	0	VNV16	0	No Message
N-0.05	B170	66	993	VNV8	0.0399	VNV16	0	VNV16	0	No Message
N-0.05	B174	67	0	VNV8	0.0424	VNV4	2.95	VNV8	0.0102	No Message
N-0.05	B174	67	513.5	VNV16	0.0126	VNV4	2.95	VNV8	0.0102	No Message
N-0.05	B174	67	1027	VNV8	0.0391	VNV4	2.95	VNV8	0.0102	No Message

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 1
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 5.4. DISEÑO DE ESTRUCTURA METALICA

Steel Frame Summary - AISC LRFD 93 (Part 1 of 2)

Story	Label	Unique Name	Design Type	Design Section	Status	PMM Combo	PMM Ratio	P Ratio	M Major Ratio	M Minor Ratio
N+6.12	C13	341	Column	TUB273.1X9.30MM	No Message	C1(T)	0.01	0.01	0	0
N+6.12	C18	331	Column	TUB150X150X6.0MM	No Message	C2(T)	0.049	0.049	0	0
N+6.12	C20	332	Column	TUB150X150X6.0MM	No Message	C2(T)	0.048	0.048	0	0
N+6.12	C21	338	Column	TUB150X150X6.0MM	No Message	C18(C)	0.002	0.002	0	0
N+6.12	C21		Column	TUB150X150X6.0MM	No Message	C2(T)	0.006	0.006	0	0
N+6.12	C22	335	Column	TUB150X150X6.0MM	No Message	C2(T)	0.055	0.055	0	0
N+6.12	C23	336	Column	TUB150X150X6.0MM	No Message	C2(T)	0.055	0.055	0	0
N+6.12	C24	337	Column	TUB150X150X6.0MM	No Message	C2(T)	0.013	0.013	0	0
N+3.06	B143	115	Beam	IPE360	No Message	C18(C)	0.076	0.018	0.055	0.002
N+3.06	B143		Beam	IPE360	No Message	C2(T)	0.21	0.01	0.2	0.000261
N+3.06	B147	118	Beam	IPE120	No Message	C2(C)	0.78	0.004	0.775	0.0002156
N+3.06	B149	119	Beam	IPE120	No Message	C2(C)	0.776	0.001	0.775	0.0002476
N+3.06	B150	120	Beam	IPE120	No Message	C2(C)	0.776	0.001	0.775	0.0001725
N+3.06	B151	121	Beam	IPE120	No Message	C2(C)	0.777	0.002	0.775	0
N+3.06	B154	122	Beam	IPE120	No Message	C2(C)	0.776	0.001	0.775	0
N+3.06	B156	123	Beam	IPE120	No Message	C2(C)	0.777	0.002	0.775	0
N+3.06	B157	124	Beam	IPE120	No Message	C2(C)	0.776	0.001	0.775	0.0001482
N+3.06	B159	125	Beam	IPE120	No Message	C2(C)	0.777	0.002	0.775	0.000249
N+3.06	B161	126	Beam	IPE120	No Message	C2(C)	0.777	0.001	0.775	0.0003682
N+3.06	B162	127	Beam	IPE120	No Message	C2(C)	0.776	0.001	0.775	0.0004668
N+3.06	B164	128	Beam	IPE120	No Message	C2(C)	0.783	0.008	0.775	0.0003159
N+3.06	B165	114	Beam	IPE360	No Message	C2(T)	0.149	0.005	0.139	0.005
N+3.06	B171	117	Beam	IPE360	No Message	C10(C)	0.175	0.013	0.161	0.001
N+3.06	B171		Beam	IPE360	No Message	C2(T)	0.219	0.009	0.208	0.002



Propietario:	SEC. EDUCACION Y SEC. CULTUI	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEN	Revisó:	ING. JUAN C. PATINO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 6.5. CHEQUEO DE CONFINAMIENTO



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATINO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

**CHEQUEO DE CONFINAMIENTO
CAPACIDAD MODERADA DE DISIPACION DE ENERGIA (DMO)**

SECCION cm		RECUBRIMIENTO	d (cm)
b	h	4 cm	56
50	60		

CONFINAMIENTO					
VIGAS DMO					
d/4	14				
8db	15.92	5	#	barra menor diametro	DMO
32dv	30.96	4	#	barra del estribo	8db
150 mm	15				
	14.00	USAR			

NO CONFINADO	
VIGAS DMO	
d/2	28
25	USAR

Ec (T/m²)	f'c = 28	Mpa
2675250	Wc = 2400	k/m ³
2487006		



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 6.6. CHEQUEO DE COLUMNA FUERTE-VIGA DEBIL

Propietario:	SEC. EDUCACION Y SEC. CULTURA	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

CHEQUEO CONDICION COLUMNA FUERTE - VIGA DEBIL

Chequeo de la Condición

$$\sum M_{nc} \geq 1.2 \sum M_{nb}$$

1. Calculo de los momentos resistentes de las vigas

Sentido y-y

Dimensiones de la viga:

Lado Izquierdo	
B:	50 [cm]
H:	60 [cm]
d':	5 [cm]
As-sup:	11.4 [cm ²]
As-inf:	11.4 [cm ²]

Lado Derecho	
B:	50 [cm]
H:	60 [cm]
d':	5 [cm]
As-sup:	11.4 [cm ²]
As-inf:	11.4 [cm ²]

Resistencia del concreto:

280 [kg/cm²]

Resistencia del acero:

4200 [kg/cm²]

Cuantías de acero

Ro1: 0.0041
Ro2: 0.0041

Ro1: 0.0041
Ro2: 0.0041

$$Mn = \rho f_y b d^2 \left(1 - 0.59 \rho \frac{f_y}{f'_c} \right)$$

Momentos Nominales:

Mn1: 25.37 [Ton-m]
Mn2: 25.37 [Ton-m]

Mn1: 25.37 [Ton-m]
Mn2: 25.37 [Ton-m]

Suma de momentos en sentido Horario:

Mn1-izq+Mn2-der: 50.736 [Ton-m]

Suma de momentos en Sentido Contrahorario:

Mn2-izq+Mn1-der: 50.736 [Ton-m]

Maximo: 50.74 [Ton-m]

2. Calculo de los momentos resistentes de las columnas

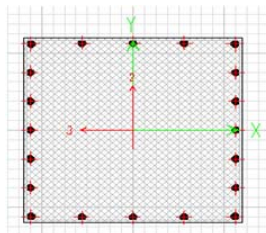
Pn [Ton]	Mn [T-m]
-617.84	0.00
-617.84	32.68
-561.54	47.93
-479.62	60.91
-390.37	71.86
-286.56	81.88
-234.08	94.95
-160.95	104.63
-42.33	88.84
74.62	65.83
312.54	0.00

Dimensiones de columna:

Refuerzo de la columna:

60x60

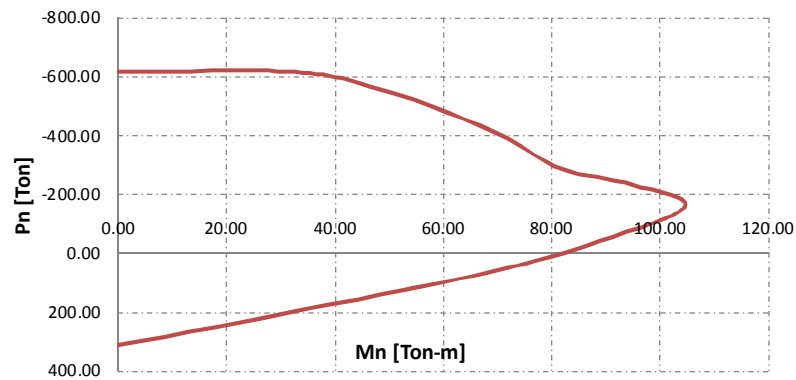
4#8+16#7



REF: SD-SECTION ETABS

Propietario:	SEC. EDUCACION Y SEC. CULTURA	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

DIAGRAMA DE INTERACCION



Pu=	0	Ton	Momento Nominal Superior	Pu=	-138.6	Ton	Momento Nominal Inferior
Posición:	9			Posición:	8		
Pu0:	-42.33		Mn-0: 88.84	Pu0:	-160.95		Mn-0: 104.63
Pu1:	74.62		Mn-1: 65.83	Pu1:	-42.33		Mn-1: 88.84
			Mn: 80.51 [Ton-m]				Mn: 101.7 [Ton-m]

Suma de Momentos en la columna:

Mn-sup+Mn-inf: 182.2 [Ton-m]

3. Chequeo de la condición

$$1.2 \sum M_{nb} = 60.88 \text{ [Ton-m]}$$

$$\sum M_{nc} = 182.2 \text{ [Ton-m]}$$

$$\sum M_{nc} \geq 1.2 \sum M_{nb} \quad \text{OK!}$$

Propietario:	SEC. EDUCACION Y SEC. CULTURA	Calculó:	ING. FABIO RIVERA
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Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
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CHEQUEO CONDICION COLUMNA FUERTE - VIGA DEBIL

Chequeo de la Condición

$$\sum M_{nc} \geq 1.2 \sum M_{nb}$$

1. Calculo de los momentos resistentes de las vigas

Sentido x-x

Dimensiones de la viga:

Lado Izquierdo	
B:	50 [cm]
H:	60 [cm]
d':	5 [cm]
As-sup:	58.2 [cm2]
As-inf:	29.3 [cm2]

Lado Derecho	
B:	50 [cm]
H:	60 [cm]
d':	5 [cm]
As-sup:	58.2 [cm2]
As-inf:	29.3 [cm2]

Resistencia del concreto:

280 [kg/cm2]

Resistencia del acero:

4200 [kg/cm2]

Cuantías de acero

Ro1: 0.0212
Ro2: 0.0107

Ro1: 0.0212
Ro2: 0.0107

$$Mn = \rho f_y b d^2 \left(1 - 0.59 \rho \frac{f_y}{f'_c} \right)$$

Momentos Nominales:

Mn1: 109.3 [Ton-m]
Mn2: 61.3 [Ton-m]

Mn1: 109.3 [Ton-m]
Mn2: 61.3 [Ton-m]

Suma de momentos en sentido Horario:

Mn1-izq+Mn2-der: 170.56 [Ton-m]

Suma de momentos en Sentido Contrahorario:

Mn2-izq+Mn1-der: 170.56 [Ton-m]

Maximo: 170.6 [Ton-m]

2. Calculo de los momentos resistentes de las columnas

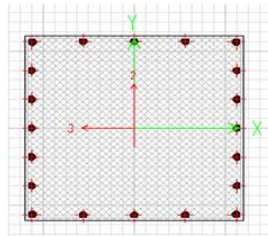
Pn [Ton]	Mn [T-m]
-617.84	0.00
-617.84	35.78
-561.54	51.98
-479.62	65.67
-390.37	77.76
-286.56	89.37
-234.08	102.96
-160.95	114.43
-42.33	100.74
74.62	81.59
312.54	0.00

Dimensiones de columna:

Refuerzo de la columna:

60x60

4#8+16#7

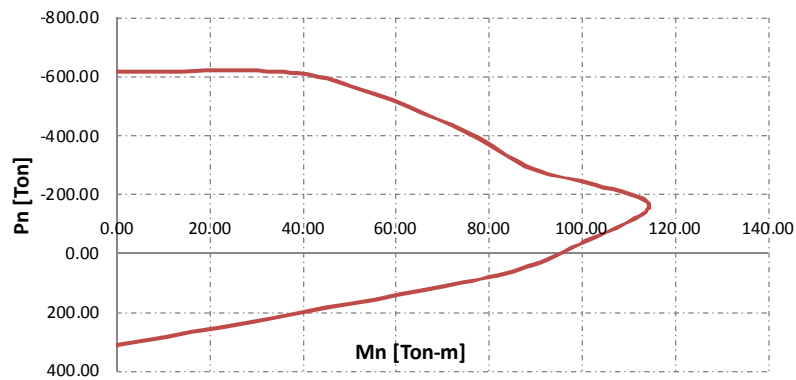


REF: SD-SECTION ETABS



Propietario:	SEC. EDUCACION Y SEC. CULTURA	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

DIAGRAMA DE INTERACCION



Momento Nominal Superior		Momento Nominal Inferior	
Pu=	0 Ton	Pu=	-138.6 Ton
Posición:	9	Posición:	8
Pu0:	-42.33	Pu0:	-160.95
Pu1:	74.62	Pu1:	-42.33
Mn-0:	100.74	Mn-0:	114.43
Mn-1:	81.59	Mn-1:	100.74
Mn:	93.81 [Ton-m]	Mn:	111.8 [Ton-m]

Suma de Momentos en la columna:

Mn-sup+Mn-inf: 205.7 [Ton-m]

3. Chequeo de la condición

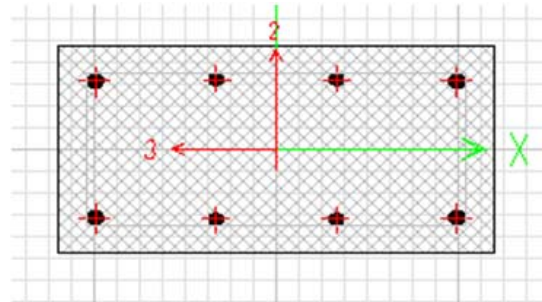
$$1.2 \sum M_{nb} = 204.67 \text{ [Ton-m]}$$

$$\sum M_{nc} = 205.7 \text{ [Ton-m]}$$

$$\sum M_{nc} \geq 1.2 \sum M_{nb} \quad \text{OK!}$$

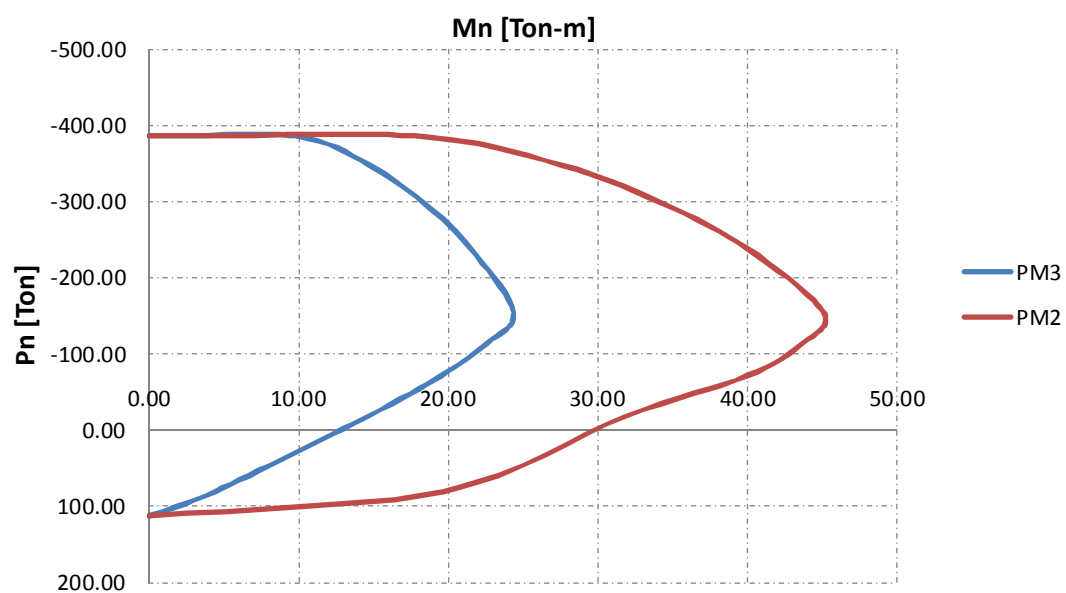
DIAGRAMA DE INTERACCION DE COLUMNAS

Pu [Ton]	M3 [T-m]	M2 [T-m]
-385.59	0.00	0.00
-385.59	9.73	17.75
-348.11	14.69	27.47
-291.27	18.77	35.06
-228.64	21.91	40.69
-153.28	24.38	45.10
-114.26	22.59	43.70
-71.09	19.49	39.94
-17.93	14.60	31.82
80.51	4.40	19.63
112.72	0.00	0.00



REF: SD-SECTION ETABS

DIAGRAMA DE INTERACCION



Pu = **Ton**
Posición: 9


Pu0: -17.93
Pu1: 80.51

M3-0: 14.60
M3-1: 4.40


M2-0: 31.82
M2-1: 19.63

M3: 12.74

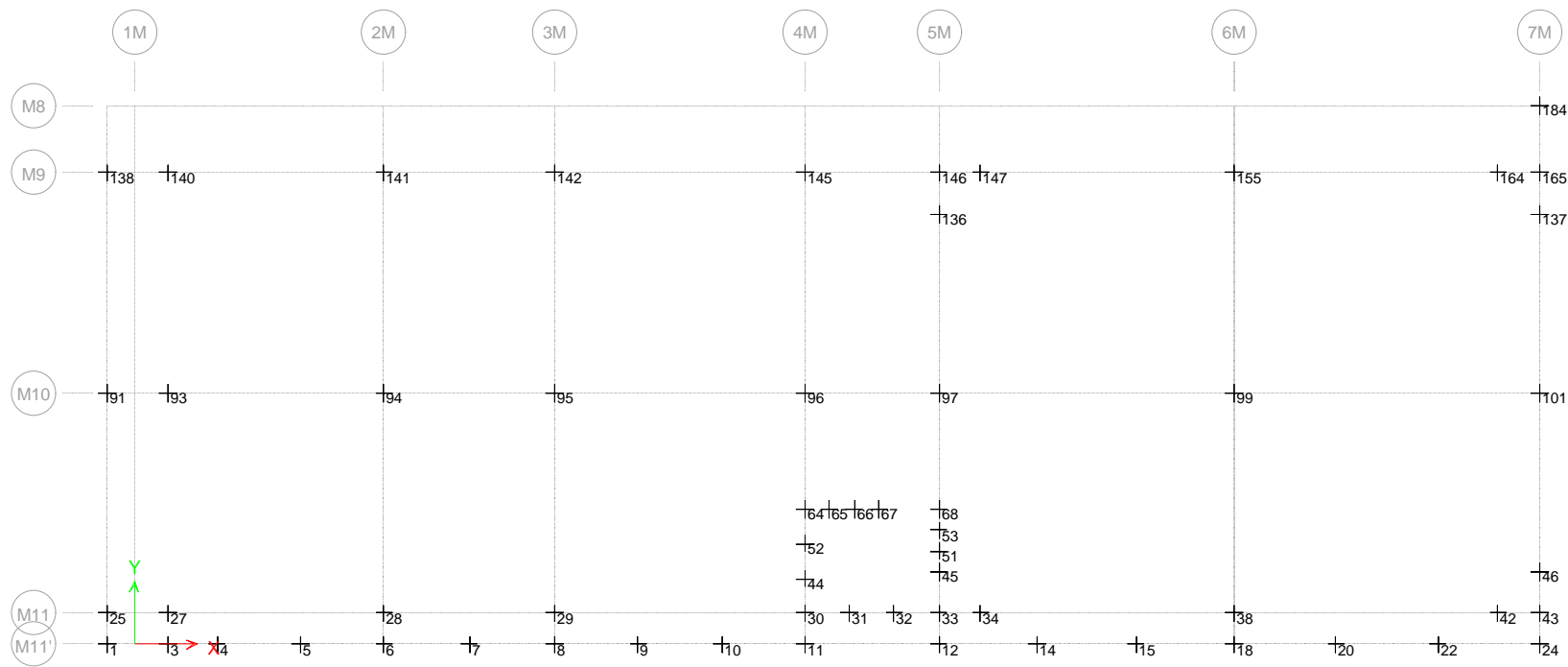
M2: 29.60 [T-m]


	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 2
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 6. DISEÑO DE CIMENTACION

	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 2 DE 2
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 6.1. ESQUEMA DE REACCIONES



	Propietario:	SECRETARIA DE EDUCACION Y SECRETARIA DE CULTURA	Calculó:	ING. FABIO RIVERA
	Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
	Localización:	BOGOTA - CUNDINAMARCA	Hoja:	PAGINA 1 DE 1
	Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 6.2. LISTADO DE REACCIONES

Joint Reactions

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	1	299	CIM1	2.3225	1.2495	8.7462	0	0	0
BASE	1	299	CIM2	2.8595	1.3073	9.5868	0	0	0
BASE	1	299	CIM3 Max	12.1399	7.9288	43.435	0	0	0
BASE	1	299	CIM3 Min	-7.4948	-5.4299	-25.9427	0	0	0
BASE	1	299	CIM4 Max	9.7171	8.3512	40.6134	0	0	0
BASE	1	299	CIM4 Min	-5.072	-5.8523	-23.1211	0	0	0
BASE	1	299	CIM5 Max	10.1077	6.3197	35.4735	0	0	0
BASE	1	299	CIM5 Min	-4.6572	-3.734	-16.7202	0	0	0
BASE	1	299	CIM6 Max	8.2943	6.6359	33.3616	0	0	0
BASE	1	299	CIM6 Min	-2.8439	-4.0502	-14.6083	0	0	0
BASE	1	299	CIM7 Max	11.2109	7.429	39.9366	0	0	0
BASE	1	299	CIM7 Min	-8.4238	-5.9296	-29.4412	0	0	0
BASE	1	299	CIM8 Max	8.7881	7.8514	37.115	0	0	0
BASE	1	299	CIM8 Min	-6.0011	-6.3521	-26.6196	0	0	0
BASE	1	299	ENVCIM Max	12.1399	8.3512	43.435	0	0	0
BASE	1	299	ENVCIM Min	-8.4238	-6.3521	-29.4412	0	0	0
BASE	3	163	CIM1	0.7177	0.5789	6.7107	-0.4866	-0.0729	-0.0235
BASE	3	163	CIM2	0.8138	0.7026	7.3064	-0.5838	-0.0745	-0.035
BASE	3	163	CIM3 Max	8.5304	1.2215	14.0889	0.6835	1.8277	0.5633
BASE	3	163	CIM3 Min	-7.095	-0.0637	-0.6674	-1.6566	-1.9735	-0.6103
BASE	3	163	CIM4 Max	5.8643	1.2663	13.7348	0.7658	1.2211	0.6064
BASE	3	163	CIM4 Min	-4.4289	-0.1085	-0.3134	-1.7389	-1.3669	-0.6534
BASE	3	163	CIM5 Max	6.6633	1.1553	12.7086	0.3212	1.3548	0.4095
BASE	3	163	CIM5 Min	-5.0837	0.188	1.6063	-1.4401	-1.503	-0.4738
BASE	3	163	CIM6 Max	4.6679	1.1888	12.4436	0.3827	0.9008	0.4417
BASE	3	163	CIM6 Min	-3.0883	0.1545	1.8713	-1.5017	-1.049	-0.5061
BASE	3	163	CIM7 Max	8.2433	0.9899	11.4046	0.8781	1.8568	0.5727
BASE	3	163	CIM7 Min	-7.3821	-0.2952	-3.3517	-1.462	-1.9443	-0.6009
BASE	3	163	CIM8 Max	5.5773	1.0347	11.0505	0.9604	1.2502	0.6158
BASE	3	163	CIM8 Min	-4.716	-0.3401	-2.9976	-1.5443	-1.3377	-0.644
BASE	3	163	ENVCIM Max	8.5304	1.2663	14.0889	0.9604	1.8568	0.6158
BASE	3	163	ENVCIM Min	-7.3821	-0.3401	-3.3517	-1.7389	-1.9735	-0.6534
BASE	4	295	CIM1	-1.2296	0.1696	10.0677	0	0	0
BASE	4	295	CIM2	-1.447	0.2086	11.1727	0	0	0
BASE	4	295	CIM3 Max	17.8944	0.201	14.1768	0	0	0
BASE	4	295	CIM3 Min	-20.3536	0.1381	5.9586	0	0	0
BASE	4	295	CIM4 Max	10.9496	0.2023	14.1791	0	0	0
BASE	4	295	CIM4 Min	-13.4089	0.1368	5.9563	0	0	0
BASE	4	295	CIM5 Max	12.9838	0.2225	13.9884	0	0	0
BASE	4	295	CIM5 Min	-15.7691	0.1752	7.8044	0	0	0
BASE	4	295	CIM6 Max	7.7858	0.2235	13.9901	0	0	0
BASE	4	295	CIM6 Min	-10.5711	0.1742	7.8027	0	0	0
BASE	4	295	CIM7 Max	18.3862	0.1332	10.1497	0	0	0
BASE	4	295	CIM7 Min	-19.8618	0.0703	1.9316	0	0	0
BASE	4	295	CIM8 Max	11.4414	0.1345	10.152	0	0	0
BASE	4	295	CIM8 Min	-12.917	0.069	1.9292	0	0	0
BASE	4	295	ENVCIM Max	18.3862	0.2235	14.1791	0	0	0
BASE	4	295	ENVCIM Min	-20.3536	0.069	1.9292	0	0	0
BASE	5	296	CIM1	1.3643	0.2227	12.7234	0	0	0
BASE	5	296	CIM2	1.867	0.2775	14.2031	0	0	0
BASE	5	296	CIM3 Max	26.1313	0.275	15.7802	0	0	0
BASE	5	296	CIM3 Min	-23.4028	0.1703	9.6665	0	0	0

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	5	296	CIM4 Max	16.7338	0.2781	15.6334	0	0	0
BASE	5	296	CIM4 Min	-14.0053	0.1672	9.8134	0	0	0
BASE	5	296	CIM5 Max	20.3591	0.3032	16.1331	0	0	0
BASE	5	296	CIM5 Min	-16.8764	0.2244	11.5333	0	0	0
BASE	5	296	CIM6 Max	13.3254	0.3055	16.0232	0	0	0
BASE	5	296	CIM6 Min	-9.8427	0.2221	11.6432	0	0	0
BASE	5	296	CIM7 Max	25.5856	0.1859	10.6909	0	0	0
BASE	5	296	CIM7 Min	-23.9485	0.0813	4.5772	0	0	0
BASE	5	296	CIM8 Max	16.1881	0.189	10.544	0	0	0
BASE	5	296	CIM8 Min	-14.551	0.0782	4.724	0	0	0
BASE	5	296	ENVCIM Max	26.1313	0.3055	16.1331	0	0	0
BASE	5	296	ENVCIM Min	-23.9485	0.0782	4.5772	0	0	0
BASE	6	164	CIM1	0.076	1.0587	13.5037	-0.8582	-0.2262	-0.002
BASE	6	164	CIM2	0.1807	1.3203	15.2041	-1.0645	-0.2667	-0.0026
BASE	6	164	CIM3 Max	16.9004	1.8894	17.0673	0.3167	3.5697	0.0032
BASE	6	164	CIM3 Min	-16.7484	0.228	9.9401	-2.0331	-4.0221	-0.0071
BASE	6	164	CIM4 Max	10.5483	1.9687	16.9059	0.4316	2.1561	0.0063
BASE	6	164	CIM4 Min	-10.3962	0.1488	10.1015	-2.1481	-2.6084	-0.0103
BASE	6	164	CIM5 Max	12.8017	1.8801	17.4602	-0.1286	2.5969	0.0015
BASE	6	164	CIM5 Min	-12.4927	0.6296	12.0978	-1.8973	-3.1101	-0.0063
BASE	6	164	CIM6 Max	8.0474	1.9395	17.3394	-0.0426	1.5388	0.0038
BASE	6	164	CIM6 Min	-7.7383	0.5703	12.2186	-1.9833	-2.052	-0.0086
BASE	6	164	CIM7 Max	16.87	1.4659	11.6658	0.66	3.6602	0.004
BASE	6	164	CIM7 Min	-16.7788	-0.1955	4.5386	-1.6899	-3.9316	-0.0063
BASE	6	164	CIM8 Max	10.5179	1.5452	11.5044	0.7749	2.2465	0.0071
BASE	6	164	CIM8 Min	-10.4266	-0.2747	4.7	-1.8048	-2.518	-0.0095
BASE	6	164	ENVCIM Max	16.9004	1.9687	17.4602	0.7749	3.6602	0.0071
BASE	6	164	ENVCIM Min	-16.7788	-0.2747	4.5386	-2.1481	-4.0221	-0.0103
BASE	7	297	CIM1	0.3092	0.3486	15.3872	0	0	0
BASE	7	297	CIM2	0.5133	0.4377	17.5573	0	0	0
BASE	7	297	CIM3 Max	27.4346	0.3861	19.3336	0	0	0
BASE	7	297	CIM3 Min	-26.8161	0.311	11.4408	0	0	0
BASE	7	297	CIM4 Max	17.0897	0.3889	19.577	0	0	0
BASE	7	297	CIM4 Min	-16.4712	0.3082	11.1974	0	0	0
BASE	7	297	CIM5 Max	20.8527	0.4437	19.9848	0	0	0
BASE	7	297	CIM5 Min	-19.9281	0.3871	14.0447	0	0	0
BASE	7	297	CIM6 Max	13.1099	0.4458	20.167	0	0	0
BASE	7	297	CIM6 Min	-12.1854	0.385	13.8625	0	0	0
BASE	7	297	CIM7 Max	27.3109	0.2467	13.1787	0	0	0
BASE	7	297	CIM7 Min	-26.9398	0.1716	5.286	0	0	0
BASE	7	297	CIM8 Max	16.966	0.2495	13.4221	0	0	0
BASE	7	297	CIM8 Min	-16.5949	0.1688	5.0425	0	0	0
BASE	7	297	ENVCIM Max	27.4346	0.4458	20.167	0	0	0
BASE	7	297	ENVCIM Min	-26.9398	0.1688	5.0425	0	0	0
BASE	8	165	CIM1	0.2146	1.1206	13.9231	-0.9156	0.3217	0.0021
BASE	8	165	CIM2	0.3424	1.3999	15.7087	-1.1382	0.4159	0.0027
BASE	8	165	CIM3 Max	16.0159	1.8144	17.2426	0.0542	4.2103	0.0126
BASE	8	165	CIM3 Min	-15.5867	0.4269	10.6035	-1.8855	-3.5669	-0.0084
BASE	8	165	CIM4 Max	10.0881	1.9124	17.2086	0.1955	2.7398	0.0153
BASE	8	165	CIM4 Min	-9.6589	0.3289	10.6375	-2.0267	-2.0964	-0.0111
BASE	8	165	CIM5 Max	12.1887	1.8523	17.7601	-0.3525	3.3155	0.0105
BASE	8	165	CIM5 Min	-11.5677	0.8079	12.7644	-1.8126	-2.5307	-0.0054
BASE	8	165	CIM6 Max	7.7519	1.9257	17.7346	-0.2468	2.2149	0.0124

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	8	165	CIM6 Min	-7.1309	0.7345	12.7899	-1.9184	-1.4301	-0.0074
BASE	8	165	CIM7 Max	15.9301	1.3662	11.6734	0.4205	4.0816	0.0118
BASE	8	165	CIM7 Min	-15.6725	-0.0214	5.0343	-1.5192	-3.6956	-0.0093
BASE	8	165	CIM8 Max	10.0023	1.4641	11.6394	0.5617	2.6112	0.0145
BASE	8	165	CIM8 Min	-9.7447	-0.1193	5.0683	-1.6605	-2.2251	-0.0119
BASE	8	165	ENVCIM Max	16.0159	1.9257	17.7601	0.5617	4.2103	0.0153
BASE	8	165	ENVCIM Min	-15.6725	-0.1193	5.0343	-2.0267	-3.6956	-0.0119
BASE	9	293	CIM1	-1.9092	0.1848	11.8266	0	0	0
BASE	9	293	CIM2	-2.3049	0.2315	13.0744	0	0	0
BASE	9	293	CIM3 Max	21.1116	0.2285	14.8079	0	0	0
BASE	9	293	CIM3 Min	-24.93	0.141	8.8453	0	0	0
BASE	9	293	CIM4 Max	12.5354	0.2332	14.4637	0	0	0
BASE	9	293	CIM4 Min	-16.3538	0.1363	9.1895	0	0	0
BASE	9	293	CIM5 Max	15.0994	0.2528	15.0051	0	0	0
BASE	9	293	CIM5 Min	-19.5114	0.1869	10.5198	0	0	0
BASE	9	293	CIM6 Max	8.6804	0.2563	14.7475	0	0	0
BASE	9	293	CIM6 Min	-13.0924	0.1834	10.7774	0	0	0
BASE	9	293	CIM7 Max	21.8753	0.1546	10.0772	0	0	0
BASE	9	293	CIM7 Min	-24.1663	0.0671	4.1146	0	0	0
BASE	9	293	CIM8 Max	13.2991	0.1593	9.733	0	0	0
BASE	9	293	CIM8 Min	-15.5901	0.0624	4.4588	0	0	0
BASE	9	293	ENVCIM Max	21.8753	0.2563	15.0051	0	0	0
BASE	9	293	ENVCIM Min	-24.93	0.0624	4.1146	0	0	0
BASE	10	294	CIM1	0.5977	0.0751	9.3357	0	0	0
BASE	10	294	CIM2	0.7917	0.0918	9.8214	0	0	0
BASE	10	294	CIM3 Max	25.0572	0.1999	15.5281	0	0	0
BASE	10	294	CIM3 Min	-23.8619	-0.0497	3.1433	0	0	0
BASE	10	294	CIM4 Max	15.1735	0.1908	13.6721	0	0	0
BASE	10	294	CIM4 Min	-13.9782	-0.0406	4.9992	0	0	0
BASE	10	294	CIM5 Max	19.1286	0.1815	14.3559	0	0	0
BASE	10	294	CIM5 Min	-17.6422	-0.0062	5.0441	0	0	0
BASE	10	294	CIM6 Max	11.731	0.1747	12.9668	0	0	0
BASE	10	294	CIM6 Min	-10.2445	0.0006	6.4332	0	0	0
BASE	10	294	CIM7 Max	24.8181	0.1698	11.7938	0	0	0
BASE	10	294	CIM7 Min	-24.1009	-0.0797	-0.591	0	0	0
BASE	10	294	CIM8 Max	14.9344	0.1607	9.9379	0	0	0
BASE	10	294	CIM8 Min	-14.2172	-0.0706	1.2649	0	0	0
BASE	10	294	ENVCIM Max	25.0572	0.1999	15.5281	0	0	0
BASE	10	294	ENVCIM Min	-24.1009	-0.0797	-0.591	0	0	0
BASE	11	166	CIM1	1.1759	0.4247	14.1958	-0.403	0.4328	0.0041
BASE	11	166	CIM2	1.5444	0.4954	15.1737	-0.4588	0.5035	0.0049
BASE	11	166	CIM3 Max	27.0722	2.0173	25.8744	1.6227	7.4333	0.0202
BASE	11	166	CIM3 Min	-24.7205	-1.1678	2.5173	-2.4287	-6.5678	-0.0121
BASE	11	166	CIM4 Max	16.7771	2.2679	26.0934	2.0275	4.6497	0.0265
BASE	11	166	CIM4 Min	-14.4254	-1.4184	2.2983	-2.8335	-3.7842	-0.0183
BASE	11	166	CIM5 Max	20.918	1.6765	23.7175	1.0803	5.748	0.0169
BASE	11	166	CIM5 Min	-18.0135	-0.7211	6.1409	-1.9699	-4.7763	-0.0074
BASE	11	166	CIM6 Max	13.2125	1.8641	23.8814	1.3833	3.6645	0.0216
BASE	11	166	CIM6 Min	-10.308	-0.9087	5.977	-2.2729	-2.6929	-0.0121
BASE	11	166	CIM7 Max	26.6019	1.8474	20.196	1.7839	7.2602	0.0185
BASE	11	166	CIM7 Min	-25.1909	-1.3377	-3.161	-2.2675	-6.7409	-0.0137
BASE	11	166	CIM8 Max	16.3068	2.098	20.415	2.1887	4.4766	0.0248
BASE	11	166	CIM8 Min	-14.8958	-1.5883	-3.38	-2.6723	-3.9573	-0.02

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	11	166	ENVCIM Max	27.0722	2.2679	26.0934	2.1887	7.4333	0.0265
BASE	11	166	ENVCIM Min	-25.1909	-1.5883	-3.38	-2.8335	-6.7409	-0.02
BASE	12	167	CIM1	-0.6656	0.49	15.4974	-0.4594	-0.3699	-0.003
BASE	12	167	CIM2	-0.4847	0.5801	16.8331	-0.532	-0.2996	-0.0037
BASE	12	167	CIM3 Max	25.7877	1.7586	25.9146	1.2573	6.6322	0.027
BASE	12	167	CIM3 Min	-27.1188	-0.7786	5.0802	-2.1762	-7.372	-0.033
BASE	12	167	CIM4 Max	16.648	2.2145	29.3042	1.8554	4.1769	0.0491
BASE	12	167	CIM4 Min	-17.9792	-1.2345	1.6906	-2.7742	-4.9168	-0.055
BASE	12	167	CIM5 Max	19.3572	1.5131	24.3446	0.7791	4.9468	0.0191
BASE	12	167	CIM5 Min	-20.417	-0.3979	8.6537	-1.8069	-5.5811	-0.0261
BASE	12	167	CIM6 Max	12.5165	1.8543	26.8816	1.2268	3.1092	0.0356
BASE	12	167	CIM6 Min	-13.5763	-0.7392	6.1167	-2.2545	-3.7435	-0.0426
BASE	12	167	CIM7 Max	26.0539	1.5626	19.7156	1.4411	6.7801	0.0282
BASE	12	167	CIM7 Min	-26.8526	-0.9746	-1.1188	-1.9924	-7.224	-0.0318
BASE	12	167	CIM8 Max	16.9143	2.0185	23.1052	2.0392	4.3249	0.0502
BASE	12	167	CIM8 Min	-17.713	-1.4305	-4.5084	-2.5905	-4.7688	-0.0538
BASE	12	167	ENVCIM Max	26.0539	2.2145	29.3042	2.0392	6.7801	0.0502
BASE	12	167	ENVCIM Min	-27.1188	-1.4305	-4.5084	-2.7742	-7.372	-0.055
BASE	14	291	CIM1	-0.6495	0.0518	10.5147	0	0	0
BASE	14	291	CIM2	-0.5922	0.0646	11.4713	0	0	0
BASE	14	291	CIM3 Max	25.1755	0.1287	16.8691	0	0	0
BASE	14	291	CIM3 Min	-26.4745	-0.0252	4.1603	0	0	0
BASE	14	291	CIM4 Max	16.1352	0.1494	16.1491	0	0	0
BASE	14	291	CIM4 Min	-17.4342	-0.0458	4.8803	0	0	0
BASE	14	291	CIM5 Max	18.808	0.1193	16.0122	0	0	0
BASE	14	291	CIM5 Min	-20.0211	0.0035	6.4521	0	0	0
BASE	14	291	CIM6 Max	12.0417	0.1348	15.4733	0	0	0
BASE	14	291	CIM6 Min	-13.2548	-0.012	6.991	0	0	0
BASE	14	291	CIM7 Max	25.4353	0.108	12.6632	0	0	0
BASE	14	291	CIM7 Min	-26.2147	-0.0459	-0.0456	0	0	0
BASE	14	291	CIM8 Max	16.395	0.1287	11.9432	0	0	0
BASE	14	291	CIM8 Min	-17.1744	-0.0665	0.6744	0	0	0
BASE	14	291	ENVCIM Max	25.4353	0.1494	16.8691	0	0	0
BASE	14	291	ENVCIM Min	-26.4745	-0.0665	-0.0456	0	0	0
BASE	15	292	CIM1	0.4737	0.0448	9.6648	0	0	0
BASE	15	292	CIM2	0.8627	0.068	10.9304	0	0	0
BASE	15	292	CIM3 Max	24.9985	0.0718	13.3272	0	0	0
BASE	15	292	CIM3 Min	-24.0511	0.0178	6.0024	0	0	0
BASE	15	292	CIM4 Max	15.4768	0.0894	11.7365	0	0	0
BASE	15	292	CIM4 Min	-14.5294	0.0002	7.5931	0	0	0
BASE	15	292	CIM5 Max	19.2007	0.0825	13.3667	0	0	0
BASE	15	292	CIM5 Min	-17.6698	0.0418	7.8613	0	0	0
BASE	15	292	CIM6 Max	12.074	0.0957	12.176	0	0	0
BASE	15	292	CIM6 Min	-10.5431	0.0286	9.0519	0	0	0
BASE	15	292	CIM7 Max	24.809	0.0539	9.4613	0	0	0
BASE	15	292	CIM7 Min	-24.2406	-0.0001	2.1365	0	0	0
BASE	15	292	CIM8 Max	15.2873	0.0715	7.8705	0	0	0
BASE	15	292	CIM8 Min	-14.7189	-0.0177	3.7272	0	0	0
BASE	15	292	ENVCIM Max	24.9985	0.0957	13.3667	0	0	0
BASE	15	292	ENVCIM Min	-24.2406	-0.0177	2.1365	0	0	0
BASE	18	168	CIM1	0.0048	0.272	10.0636	-0.2248	0.2175	0.0001
BASE	18	168	CIM2	0.0988	0.4244	11.6488	-0.3508	0.3277	0.0001
BASE	18	168	CIM3 Max	15.8236	0.5174	10.5863	0.153	5.4249	0.0223

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	18	168	CIM3 Min	-15.814	0.0265	9.5409	-0.6027	-4.9898	-0.0221
BASE	18	168	CIM4 Max	10.0269	0.6958	10.8279	0.4284	3.3439	0.0356
BASE	18	168	CIM4 Min	-10.0174	-0.1519	9.2994	-0.8781	-2.9089	-0.0353
BASE	18	168	CIM5 Max	11.9669	0.5713	11.6463	-0.0345	4.2144	0.0169
BASE	18	168	CIM5 Min	-11.8164	0.2012	10.8587	-0.6042	-3.6141	-0.0166
BASE	18	168	CIM6 Max	7.6283	0.7049	11.8271	0.1717	2.6569	0.0268
BASE	18	168	CIM6 Min	-7.4778	0.0677	10.6779	-0.8103	-2.0566	-0.0265
BASE	18	168	CIM7 Max	15.8217	0.4086	6.5609	0.2429	5.3379	0.0223
BASE	18	168	CIM7 Min	-15.8159	-0.0823	5.5155	-0.5127	-5.0768	-0.0221
BASE	18	168	CIM8 Max	10.025	0.5871	6.8024	0.5184	3.2569	0.0355
BASE	18	168	CIM8 Min	-10.0193	-0.2607	5.2739	-0.7882	-2.9959	-0.0353
BASE	18	168	ENVCIM Max	15.8236	0.7049	11.8271	0.5184	5.4249	0.0356
BASE	18	168	ENVCIM Min	-15.8159	-0.2607	5.2739	-0.8781	-5.0768	-0.0353
BASE	20	289	CIM1	-0.6674	0.0408	9.1674	0	0	0
BASE	20	289	CIM2	-0.8724	0.0631	10.2225	0	0	0
BASE	20	289	CIM3 Max	24.8983	0.0601	12.8437	0	0	0
BASE	20	289	CIM3 Min	-26.2331	0.0214	5.4911	0	0	0
BASE	20	289	CIM4 Max	16.2434	0.0723	10.7665	0	0	0
BASE	20	289	CIM4 Min	-17.5782	0.0092	7.5682	0	0	0
BASE	20	289	CIM5 Max	18.399	0.0721	12.7209	0	0	0
BASE	20	289	CIM5 Min	-20.0414	0.0429	7.1965	0	0	0
BASE	20	289	CIM6 Max	11.9211	0.0812	11.1662	0	0	0
BASE	20	289	CIM6 Min	-13.5635	0.0338	8.7512	0	0	0
BASE	20	289	CIM7 Max	25.1653	0.0438	9.1767	0	0	0
BASE	20	289	CIM7 Min	-25.9661	0.0051	1.8241	0	0	0
BASE	20	289	CIM8 Max	16.5104	0.056	7.0995	0	0	0
BASE	20	289	CIM8 Min	-17.3112	-0.0071	3.9013	0	0	0
BASE	20	289	ENVCIM Max	25.1653	0.0812	12.8437	0	0	0
BASE	20	289	ENVCIM Min	-26.2331	-0.0071	1.8241	0	0	0
BASE	22	290	CIM1	5.3711	0.0281	17.9505	0	0	0
BASE	22	290	CIM2	6.7689	0.0359	20.8027	0	0	0
BASE	22	290	CIM3 Max	27.4607	0.0509	31.2123	0	0	0
BASE	22	290	CIM3 Min	-16.7184	0.0052	4.6887	0	0	0
BASE	22	290	CIM4 Max	15.5919	0.0645	35.0247	0	0	0
BASE	22	290	CIM4 Min	-4.8496	-0.0084	0.8763	0	0	0
BASE	22	290	CIM5 Max	23.0175	0.0512	30.0765	0	0	0
BASE	22	290	CIM5 Min	-10.1785	0.0168	10.1028	0	0	0
BASE	22	290	CIM6 Max	14.1341	0.0613	32.93	0	0	0
BASE	22	290	CIM6 Min	-1.2952	0.0066	7.2494	0	0	0
BASE	22	290	CIM7 Max	25.3122	0.0397	24.0321	0	0	0
BASE	22	290	CIM7 Min	-18.8668	-0.006	-2.4915	0	0	0
BASE	22	290	CIM8 Max	13.4434	0.0533	27.8445	0	0	0
BASE	22	290	CIM8 Min	-6.9981	-0.0196	-6.3039	0	0	0
BASE	22	290	ENVCIM Max	27.4607	0.0645	35.0247	0	0	0
BASE	22	290	ENVCIM Min	-18.8668	-0.0196	-6.3039	0	0	0
BASE	24	188	CIM1	1.0873	7.3365	28.0107	0	0	0
BASE	24	188	CIM2	1.4417	8.917	33.3294	0	0	0
BASE	24	188	CIM3 Max	7.259	14.2973	64.7553	0	0	0
BASE	24	188	CIM3 Min	-5.0843	0.3758	-8.7339	0	0	0
BASE	24	188	CIM4 Max	4.1411	16.6695	73.6273	0	0	0
BASE	24	188	CIM4 Min	-1.9664	-1.9965	-17.6059	0	0	0
BASE	24	188	CIM5 Max	5.9909	13.7644	59.6669	0	0	0
BASE	24	188	CIM5 Min	-3.2847	3.2793	4.3325	0	0	0

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	24	188	CIM6 Max	3.6572	15.5399	66.3073	0	0	0
BASE	24	188	CIM6 Min	-0.951	1.5038	-2.3079	0	0	0
BASE	24	188	CIM7 Max	6.8241	11.3626	53.551	0	0	0
BASE	24	188	CIM7 Min	-5.5193	-2.5588	-19.9382	0	0	0
BASE	24	188	CIM8 Max	3.7061	13.7349	62.4231	0	0	0
BASE	24	188	CIM8 Min	-2.4013	-4.9311	-28.8102	0	0	0
BASE	24	188	ENVCIM Max	7.259	16.6695	73.6273	0	0	0
BASE	24	188	ENVCIM Min	-5.5193	-4.9311	-28.8102	0	0	0
BASE	25	298	CIM1	0.4942	0.0724	13.7223	0	0	0
BASE	25	298	CIM2	0.6191	-0.3503	14.5381	0	0	0
BASE	25	298	CIM3 Max	0.9798	40.8172	23.8921	0	0	0
BASE	25	298	CIM3 Min	0.0086	-40.6724	3.5525	0	0	0
BASE	25	298	CIM4 Max	1.0339	43.5923	20.9259	0	0	0
BASE	25	298	CIM4 Min	-0.0455	-43.4475	6.5187	0	0	0
BASE	25	298	CIM5 Max	0.9534	30.4204	21.9807	0	0	0
BASE	25	298	CIM5 Min	0.2224	-30.9097	6.6876	0	0	0
BASE	25	298	CIM6 Max	0.9939	32.4975	19.7607	0	0	0
BASE	25	298	CIM6 Min	0.1819	-32.9867	8.9077	0	0	0
BASE	25	298	CIM7 Max	0.7821	40.7883	18.4032	0	0	0
BASE	25	298	CIM7 Min	-0.189	-40.7014	-1.9364	0	0	0
BASE	25	298	CIM8 Max	0.8362	43.5634	15.437	0	0	0
BASE	25	298	CIM8 Min	-0.2432	-43.4765	1.0298	0	0	0
BASE	25	298	ENVCIM Max	1.0339	43.5923	23.8921	0	0	0
BASE	25	298	ENVCIM Min	-0.2432	-43.4765	-1.9364	0	0	0
BASE	27	139	CIM1	2.9073	1.5075	95.9629	-1.4388	2.9081	-0.001
BASE	27	139	CIM2	3.5204	1.6576	116.4811	-1.5442	3.5248	-0.0013
BASE	27	139	CIM3 Max	3.1996	3.2157	98.6215	3.0832	3.8019	0.0773
BASE	27	139	CIM3 Min	2.6149	-0.2008	93.3044	-5.9609	2.0144	-0.0794
BASE	27	139	CIM4 Max	3.2056	3.6338	98.9181	3.7342	3.6167	0.0735
BASE	27	139	CIM4 Min	2.6089	-0.6189	93.0078	-6.6118	2.1996	-0.0756
BASE	27	139	CIM5 Max	3.5871	2.9063	113.3527	1.8862	4.0428	0.0577
BASE	27	139	CIM5 Min	3.1471	0.3338	109.3505	-4.9218	2.6985	-0.0602
BASE	27	139	CIM6 Max	3.5916	3.2192	113.5747	2.3734	3.9042	0.0549
BASE	27	139	CIM6 Min	3.1426	0.0208	109.1285	-5.4091	2.8371	-0.0573
BASE	27	139	CIM7 Max	2.0367	2.6127	60.2363	3.6587	2.6386	0.0777
BASE	27	139	CIM7 Min	1.452	-0.8038	54.9192	-5.3853	0.8512	-0.079
BASE	27	139	CIM8 Max	2.0427	3.0309	60.5329	4.3097	2.4535	0.0739
BASE	27	139	CIM8 Min	1.446	-1.2219	54.6226	-6.0363	1.0363	-0.0752
BASE	27	139	ENVCIM Max	3.5916	3.6338	116.4811	4.3097	4.0428	0.0777
BASE	27	139	ENVCIM Min	1.446	-1.2219	54.6226	-6.6118	0.8512	-0.0794
BASE	28	142	CIM1	-1.2812	2.1837	124.3923	-2.1075	-1.2747	-0.001
BASE	28	142	CIM2	-1.565	2.57	154.9384	-2.447	-1.5537	-0.0013
BASE	28	142	CIM3 Max	-0.9474	3.5958	127.5014	1.6485	-0.5201	0.0773
BASE	28	142	CIM3 Min	-1.615	0.7717	121.2831	-5.8634	-2.0293	-0.0794
BASE	28	142	CIM4 Max	-1.0011	3.9372	128.0097	2.2615	-0.6416	0.0735
BASE	28	142	CIM4 Min	-1.5613	0.4302	120.7748	-6.4764	-1.9078	-0.0756
BASE	28	142	CIM5 Max	-1.243	3.5367	149.6424	0.4654	-0.9164	0.0577
BASE	28	142	CIM5 Min	-1.7451	1.4102	144.9612	-5.1897	-2.0515	-0.0602
BASE	28	142	CIM6 Max	-1.2831	3.7922	150.0228	0.9241	-1.0073	0.0549
BASE	28	142	CIM6 Min	-1.7049	1.1547	144.5808	-5.6484	-1.9606	-0.0573
BASE	28	142	CIM7 Max	-0.4349	2.7223	77.7445	2.4915	-0.0102	0.0777
BASE	28	142	CIM7 Min	-1.1025	-0.1018	71.5262	-5.0204	-1.5194	-0.079
BASE	28	142	CIM8 Max	-0.4886	3.0638	78.2528	3.1045	-0.1317	0.0739

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	28	142	CIM8 Min	-1.0489	-0.4433	71.0179	-5.6334	-1.398	-0.0752
BASE	28	142	ENVCIM Max	-0.4349	3.9372	154.9384	3.1045	-0.0102	0.0777
BASE	28	142	ENVCIM Min	-1.7451	-0.4433	71.0179	-6.4764	-2.0515	-0.0794
BASE	29	145	CIM1	1.9327	2.3309	132.2805	-2.2491	1.9349	-0.001
BASE	29	145	CIM2	2.3166	2.7848	165.1012	-2.6549	2.3226	-0.0013
BASE	29	145	CIM3 Max	2.2729	3.5807	134.432	0.9843	2.727	0.0773
BASE	29	145	CIM3 Min	1.5926	1.081	130.129	-5.4825	1.1428	-0.0794
BASE	29	145	CIM4 Max	2.2237	3.8746	134.5684	1.5757	2.5814	0.0735
BASE	29	145	CIM4 Min	1.6418	0.7871	129.9926	-6.0738	1.2885	-0.0756
BASE	29	145	CIM5 Max	2.4765	3.6124	158.5153	-0.1192	2.8215	0.0577
BASE	29	145	CIM5 Min	1.9648	1.7302	155.2768	-4.9877	1.6299	-0.0602
BASE	29	145	CIM6 Max	2.4397	3.8323	158.6174	0.3234	2.7124	0.0549
BASE	29	145	CIM6 Min	2.0016	1.5103	155.1747	-5.4303	1.7389	-0.0573
BASE	29	145	CIM7 Max	1.4998	2.6484	81.5198	1.884	1.9531	0.0777
BASE	29	145	CIM7 Min	0.8195	0.1487	77.2168	-4.5828	0.3688	-0.079
BASE	29	145	CIM8 Max	1.4506	2.9422	81.6562	2.4753	1.8074	0.0739
BASE	29	145	CIM8 Min	0.8687	-0.1452	77.0804	-5.1742	0.5145	-0.0752
BASE	29	145	ENVCIM Max	2.4765	3.8746	165.1012	2.4753	2.8215	0.0777
BASE	29	145	ENVCIM Min	0.8195	-0.1452	77.0804	-6.0738	0.3688	-0.0794
BASE	30	146	CIM1	7.574	6.9532	64.4536	0.2632	-0.9866	-0.0051
BASE	30	146	CIM2	9.363	8.4292	76.598	0.3477	-1.1626	-0.0078
BASE	30	146	CIM3 Max	25.4594	26.7385	220.1565	3.5938	0.1031	0.0509
BASE	30	146	CIM3 Min	-10.3113	-12.8321	-91.2492	-3.0674	-2.0762	-0.0611
BASE	30	146	CIM4 Max	19.6184	24.6592	195.612	4.2427	0.1434	0.0594
BASE	30	146	CIM4 Min	-4.4703	-10.7527	-66.7047	-3.7164	-2.1166	-0.0696
BASE	30	146	CIM5 Max	22.3623	22.944	190.6752	2.8341	-0.2986	0.035
BASE	30	146	CIM5 Min	-4.5308	-6.8236	-43.5514	-2.1809	-1.9386	-0.0493
BASE	30	146	CIM6 Max	17.9905	21.3877	172.3045	3.3198	-0.2684	0.0414
BASE	30	146	CIM6 Min	-0.159	-5.2672	-25.1807	-2.6666	-1.9688	-0.0557
BASE	30	146	CIM7 Max	22.4298	23.9572	194.375	3.4885	0.4977	0.0529
BASE	30	146	CIM7 Min	-13.3409	-15.6134	-117.0306	-3.1727	-1.6816	-0.0591
BASE	30	146	CIM8 Max	16.5888	21.8779	169.8306	4.1374	0.538	0.0614
BASE	30	146	CIM8 Min	-7.4999	-13.534	-92.4862	-3.8216	-1.7219	-0.0676
BASE	30	146	ENVCIM Max	25.4594	26.7385	220.1565	4.2427	0.538	0.0614
BASE	30	146	ENVCIM Min	-13.3409	-15.6134	-117.0306	-3.8216	-2.1166	-0.0696
BASE	31	281	CIM1	0.1219	0.0112	41.7052	0	0	0
BASE	31	281	CIM2	0.233	0.0196	49.7065	0	0	0
BASE	31	281	CIM3 Max	10.1027	0.1331	102.6438	0	0	0
BASE	31	281	CIM3 Min	-9.8589	-0.1106	-19.2335	0	0	0
BASE	31	281	CIM4 Max	7.4212	0.1819	103.08	0	0	0
BASE	31	281	CIM4 Min	-7.1774	-0.1595	-19.6697	0	0	0
BASE	31	281	CIM5 Max	7.7102	0.1093	93.5618	0	0	0
BASE	31	281	CIM5 Min	-7.2997	-0.0743	1.8504	0	0	0
BASE	31	281	CIM6 Max	5.7032	0.1458	93.8883	0	0	0
BASE	31	281	CIM6 Min	-5.2927	-0.1109	1.5239	0	0	0
BASE	31	281	CIM7 Max	10.0539	0.1286	85.9617	0	0	0
BASE	31	281	CIM7 Min	-9.9076	-0.1151	-35.9156	0	0	0
BASE	31	281	CIM8 Max	7.3724	0.1774	86.398	0	0	0
BASE	31	281	CIM8 Min	-7.2262	-0.1639	-36.3518	0	0	0
BASE	31	281	ENVCIM Max	10.1027	0.1819	103.08	0	0	0
BASE	31	281	ENVCIM Min	-9.9076	-0.1639	-36.3518	0	0	0
BASE	32	282	CIM1	2.4341	0.0144	41.639	0	0	0
BASE	32	282	CIM2	3.2511	0.0242	49.8926	0	0	0

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	32	282	CIM3 Max	13.2303	0.1225	80.6838	0	0	0
BASE	32	282	CIM3 Min	-8.3622	-0.0936	2.5943	0	0	0
BASE	32	282	CIM4 Max	8.9632	0.1766	95.7778	0	0	0
BASE	32	282	CIM4 Min	-4.0951	-0.1478	-12.4998	0	0	0
BASE	32	282	CIM5 Max	11.1622	0.1032	77.2397	0	0	0
BASE	32	282	CIM5 Min	-5.0685	-0.0596	18.4187	0	0	0
BASE	32	282	CIM6 Max	7.9684	0.1437	88.5371	0	0	0
BASE	32	282	CIM6 Min	-1.8748	-0.1002	7.1214	0	0	0
BASE	32	282	CIM7 Max	12.2567	0.1167	64.0282	0	0	0
BASE	32	282	CIM7 Min	-9.3358	-0.0994	-14.0613	0	0	0
BASE	32	282	CIM8 Max	7.9896	0.1708	79.1222	0	0	0
BASE	32	282	CIM8 Min	-5.0687	-0.1535	-29.1554	0	0	0
BASE	32	282	ENVCIM Max	13.2303	0.1766	95.7778	0	0	0
BASE	32	282	ENVCIM Min	-9.3358	-0.1535	-29.1554	0	0	0
BASE	33	157	CIM1	23.1462	27.8991	143.6621	-0.7936	1.4084	-0.0545
BASE	33	157	CIM2	30.7434	35.4644	179.3799	-1.183	2.1373	-0.0857
BASE	33	157	CIM3 Max	60.0218	50.3801	307.9355	4.633	4.645	0.66
BASE	33	157	CIM3 Min	-13.7294	5.4182	-20.6113	-6.2202	-1.8282	-0.7689
BASE	33	157	CIM4 Max	47.2174	43.971	289.8149	4.6944	3.6996	0.8856
BASE	33	157	CIM4 Min	-0.925	11.8273	-2.4906	-6.2817	-0.8827	-0.9945
BASE	33	157	CIM5 Max	56.5664	50.4766	294.0258	2.9979	4.3886	0.4602
BASE	33	157	CIM5 Min	1.1217	16.6696	46.8751	-5.1691	-0.4784	-0.616
BASE	33	157	CIM6 Max	46.9827	45.6796	280.4631	3.0438	3.681	0.629
BASE	33	157	CIM6 Min	10.7054	21.4665	60.4378	-5.2151	0.2292	-0.7848
BASE	33	157	CIM7 Max	50.7633	39.2204	250.4707	4.9504	4.0816	0.6818
BASE	33	157	CIM7 Min	-22.9879	-5.7415	-78.0761	-5.9028	-2.3915	-0.7472
BASE	33	157	CIM8 Max	37.9589	32.8114	232.35	5.0118	3.1362	0.9074
BASE	33	157	CIM8 Min	-10.1835	0.6676	-59.9555	-5.9642	-1.4461	-0.9727
BASE	33	157	ENVCIM Max	60.0218	50.4766	307.9355	5.0118	4.645	0.9074
BASE	33	157	ENVCIM Min	-22.9879	-5.7415	-78.0761	-6.2817	-2.3915	-0.9945
BASE	34	159	CIM1	-20.2304	0.2378	49.489	-0.1279	1.5208	0.0564
BASE	34	159	CIM2	-23.8075	0.3801	59.0034	-0.2009	2.3366	0.0875
BASE	34	159	CIM3 Max	9.5713	0.6357	126.2116	1.8219	4.0142	0.7132
BASE	34	159	CIM3 Min	-50.0321	-0.1602	-27.2336	-2.0777	-0.9727	-0.6004
BASE	34	159	CIM4 Max	11.532	0.8435	124.2991	2.0743	2.9356	0.9561
BASE	34	159	CIM4 Min	-51.9928	-0.368	-25.321	-2.3301	0.1059	-0.8433
BASE	34	159	CIM5 Max	-0.4843	0.6444	114.3528	1.2851	4.0067	0.5745
BASE	34	159	CIM5 Min	-45.3422	0.0447	-1.1033	-1.6504	0.2586	-0.415
BASE	34	159	CIM6 Max	0.9833	0.7999	112.9213	1.474	3.1995	0.7563
BASE	34	159	CIM6 Min	-46.8097	-0.1109	0.3282	-1.8392	1.0659	-0.5968
BASE	34	159	CIM7 Max	17.6634	0.5406	106.416	1.8731	3.4059	0.6907
BASE	34	159	CIM7 Min	-41.9399	-0.2553	-47.0292	-2.0266	-1.581	-0.623
BASE	34	159	CIM8 Max	19.6241	0.7484	104.5035	2.1255	2.3273	0.9336
BASE	34	159	CIM8 Min	-43.9006	-0.4631	-45.1166	-2.2789	-0.5024	-0.8659
BASE	34	159	ENVCIM Max	19.6241	0.8435	126.2116	2.1255	4.0142	0.9561
BASE	34	159	ENVCIM Min	-51.9928	-0.4631	-47.0292	-2.3301	-1.581	-0.8659
BASE	38	150	CIM1	0.4328	1.2474	35.0943	-1.1459	0.437	-0.001
BASE	38	150	CIM2	0.6959	1.6376	52.0633	-1.483	0.7041	-0.0013
BASE	38	150	CIM3 Max	1.4405	2.0124	36.1584	0.2499	2.1071	0.0773
BASE	38	150	CIM3 Min	-0.5749	0.4823	34.0302	-2.5416	-1.2331	-0.0794
BASE	38	150	CIM4 Max	1.0018	2.5632	36.9057	1.2632	1.4195	0.0735
BASE	38	150	CIM4 Min	-0.1362	-0.0685	33.2829	-3.5549	-0.5455	-0.0756
BASE	38	150	CIM5 Max	1.3875	2.1169	48.6233	-0.3464	1.8927	0.0577

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	38	150	CIM5 Min	-0.1272	0.9633	47.0189	-2.4511	-0.618	-0.0602
BASE	38	150	CIM6 Max	1.0592	2.5291	49.1826	0.412	1.378	0.0549
BASE	38	150	CIM6 Min	0.2011	0.551	46.4595	-3.2095	-0.1034	-0.0573
BASE	38	150	CIM7 Max	1.2674	1.5135	22.1207	0.7083	1.9323	0.0777
BASE	38	150	CIM7 Min	-0.748	-0.0166	19.9924	-2.0833	-1.4079	-0.079
BASE	38	150	CIM8 Max	0.8287	2.0643	22.868	1.7215	1.2447	0.0739
BASE	38	150	CIM8 Min	-0.3093	-0.5675	19.2452	-3.0966	-0.7203	-0.0752
BASE	38	150	ENVCIM Max	1.4405	2.5632	52.0633	1.7215	2.1071	0.0777
BASE	38	150	ENVCIM Min	-0.748	-0.5675	19.2452	-3.5549	-1.4079	-0.0794
BASE	42	176	CIM1	20.7448	-0.0328	47.9748	0.1605	-0.4064	-0.0663
BASE	42	176	CIM2	25.637	-0.1236	59.0878	0.321	-0.6476	-0.0998
BASE	42	176	CIM3 Max	23.7953	1.5272	60.9469	0.8912	3.9776	0.3788
BASE	42	176	CIM3 Min	17.6942	-1.5927	35.0027	-0.5702	-4.7905	-0.5114
BASE	42	176	CIM4 Max	23.818	1.4499	59.5472	1.0382	3.6867	0.5914
BASE	42	176	CIM4 Min	17.6715	-1.5154	36.4024	-0.7171	-4.4996	-0.724
BASE	42	176	CIM5 Max	26.7094	1.0728	66.068	0.831	2.711	0.2439
BASE	42	176	CIM5 Min	22.1184	-1.2746	46.5512	-0.2693	-3.8856	-0.4268
BASE	42	176	CIM6 Max	26.7264	1.0149	65.0203	0.941	2.4932	0.4031
BASE	42	176	CIM6 Min	22.1014	-1.2167	47.5988	-0.3793	-3.6679	-0.5859
BASE	42	176	CIM7 Max	15.4974	1.5403	41.757	0.827	4.1402	0.4053
BASE	42	176	CIM7 Min	9.3963	-1.5796	15.8128	-0.6344	-4.6279	-0.4849
BASE	42	176	CIM8 Max	15.5201	1.463	40.3573	0.974	3.8493	0.6179
BASE	42	176	CIM8 Min	9.3736	-1.5023	17.2125	-0.7813	-4.337	-0.6975
BASE	42	176	ENVCIM Max	26.7264	1.5403	66.068	1.0382	4.1402	0.6179
BASE	42	176	ENVCIM Min	9.3736	-1.5927	15.8128	-0.7813	-4.7905	-0.724
BASE	43	175	CIM1	-21.2675	17.5217	100.8184	0.373	0.8125	0.0577
BASE	43	175	CIM2	-26.4921	20.6888	123.3085	0.841	1.2638	0.0871
BASE	43	175	CIM3 Max	11.5738	31.3195	143.3793	2.7178	5.9193	0.5999
BASE	43	175	CIM3 Min	-54.1089	3.7239	58.2575	-1.9718	-4.2944	-0.4845
BASE	43	175	CIM4 Max	9.5944	27.569	153.6469	2.6737	5.8374	0.6362
BASE	43	175	CIM4 Min	-52.1295	7.4744	47.99	-1.9276	-4.2124	-0.5208
BASE	43	175	CIM5 Max	-0.4776	30.272	149.7326	2.4883	4.9936	0.4878
BASE	43	175	CIM5 Min	-49.8943	9.5221	85.6393	-1.0403	-2.6916	-0.3283
BASE	43	175	CIM6 Max	-1.9591	27.4649	157.4175	2.4553	4.9323	0.515
BASE	43	175	CIM6 Min	-48.4128	12.3292	77.9545	-1.0073	-2.6303	-0.3555
BASE	43	175	CIM7 Max	20.0809	24.3108	103.052	2.5686	5.5943	0.5768
BASE	43	175	CIM7 Min	-45.6019	-3.2847	17.9302	-2.121	-4.6193	-0.5076
BASE	43	175	CIM8 Max	18.1014	20.5603	113.3195	2.5245	5.5124	0.6131
BASE	43	175	CIM8 Min	-43.6225	0.4657	7.6626	-2.0769	-4.5374	-0.5439
BASE	43	175	ENVCIM Max	20.0809	31.3195	157.4175	2.7178	5.9193	0.6362
BASE	43	175	ENVCIM Min	-54.1089	-3.2847	7.6626	-2.121	-4.6193	-0.5439
BASE	44	284	CIM1	-0.0105	-1.4943	31.1224	0	0	0
BASE	44	284	CIM2	-0.0156	-1.4376	38.0683	0	0	0
BASE	44	284	CIM3 Max	0.0918	3.1192	82.2799	0	0	0
BASE	44	284	CIM3 Min	-0.1129	-6.1077	-20.035	0	0	0
BASE	44	284	CIM4 Max	0.0459	4.1909	56.9015	0	0	0
BASE	44	284	CIM4 Min	-0.067	-7.1795	5.3433	0	0	0
BASE	44	284	CIM5 Max	0.0626	2.0219	74.7757	0	0	0
BASE	44	284	CIM5 Min	-0.0913	-4.9254	-2.112	0	0	0
BASE	44	284	CIM6 Max	0.0282	2.8241	55.7808	0	0	0
BASE	44	284	CIM6 Min	-0.0569	-5.7276	16.8828	0	0	0
BASE	44	284	CIM7 Max	0.096	3.7169	69.8309	0	0	0
BASE	44	284	CIM7 Min	-0.1087	-5.51	-32.484	0	0	0

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BASE	44	284	CIM8 Max	0.0501	4.7886	44.4525	0	0	0
BASE	44	284	CIM8 Min	-0.0627	-6.5818	-7.1056	0	0	0
BASE	44	284	ENVCIM Max	0.096	4.7886	82.2799	0	0	0
BASE	44	284	ENVCIM Min	-0.1129	-7.1795	-32.484	0	0	0
BASE	45	158	CIM1	0.0935	-10.5831	69.7057	-0.594	0.1621	0.0035
BASE	45	158	CIM2	0.1402	-12.1887	86.6364	-0.8976	0.2456	0.0062
BASE	45	158	CIM3 Max	1.2012	7.442	123.9228	2.9774	1.0058	0.4162
BASE	45	158	CIM3 Min	-1.0142	-28.6083	15.4886	-4.1655	-0.6816	-0.4092
BASE	45	158	CIM4 Max	0.8117	9.2267	100.3136	2.8727	0.9452	0.2803
BASE	45	158	CIM4 Min	-0.6246	-30.3929	39.0978	-4.0607	-0.621	-0.2733
BASE	45	158	CIM5 Max	0.9613	1.7798	123.1534	1.8656	0.8595	0.3157
BASE	45	158	CIM5 Min	-0.7042	-25.3544	41.654	-3.5089	-0.41	-0.3048
BASE	45	158	CIM6 Max	0.6697	3.1155	105.4828	1.7871	0.8142	0.2141
BASE	45	158	CIM6 Min	-0.4126	-26.6901	59.3247	-3.4305	-0.3646	-0.2031
BASE	45	158	CIM7 Max	1.1638	11.6753	96.0405	3.2151	0.9409	0.4148
BASE	45	158	CIM7 Min	-1.0516	-24.375	-12.3937	-3.9279	-0.7464	-0.4106
BASE	45	158	CIM8 Max	0.7743	13.4599	72.4313	3.1103	0.8804	0.2789
BASE	45	158	CIM8 Min	-0.662	-26.1597	11.2155	-3.8231	-0.6859	-0.2747
BASE	45	158	ENVCIM Max	1.2012	13.4599	123.9228	3.2151	1.0058	0.4162
BASE	45	158	ENVCIM Min	-1.0516	-30.3929	-12.3937	-4.1655	-0.7464	-0.4106
BASE	46	183	CIM1	-0.4369	-30.1492	96.3278	-0.9259	-0.7527	0.0035
BASE	46	183	CIM2	-0.8068	-38.819	121.2962	-0.4464	-1.3102	0.0062
BASE	46	183	CIM3 Max	0.6845	-0.6771	131.2956	6.7469	0.6101	0.4237
BASE	46	183	CIM3 Min	-1.5583	-59.6212	61.3599	-8.5988	-2.1154	-0.4167
BASE	46	183	CIM4 Max	0.393	13.7281	133.7518	5.7514	0.5915	0.2854
BASE	46	183	CIM4 Min	-1.2668	-74.0264	58.9037	-7.6032	-2.0969	-0.2783
BASE	46	183	CIM5 Max	0.1289	-14.4457	141.3715	5.2054	-0.1454	0.3215
BASE	46	183	CIM5 Min	-1.5575	-58.8574	88.7368	-6.3379	-2.1962	-0.3104
BASE	46	183	CIM6 Max	-0.0893	-3.6638	143.2099	4.4602	-0.1593	0.2179
BASE	46	183	CIM6 Min	-1.3394	-69.6392	86.8984	-5.5928	-2.1824	-0.2068
BASE	46	183	CIM7 Max	0.8592	11.3825	92.7645	7.1173	0.9112	0.4223
BASE	46	183	CIM7 Min	-1.3835	-47.5615	22.8288	-8.2284	-1.8144	-0.4181
BASE	46	183	CIM8 Max	0.5678	25.7878	95.2207	6.1217	0.8926	0.284
BASE	46	183	CIM8 Min	-1.0921	-61.9668	20.3726	-7.2329	-1.7958	-0.2797
BASE	46	183	ENVCIM Max	0.8592	25.7878	143.2099	7.1173	0.9112	0.4237
BASE	46	183	ENVCIM Min	-1.5583	-74.0264	20.3726	-8.5988	-2.1962	-0.4181
BASE	51	288	CIM1	0.0159	1.699	28.2015	0	0	0
BASE	51	288	CIM2	0.0244	2.7126	36.3152	0	0	0
BASE	51	288	CIM3 Max	0.0595	6.5019	56.9908	0	0	0
BASE	51	288	CIM3 Min	-0.0277	-3.1038	-0.5878	0	0	0
BASE	51	288	CIM4 Max	0.0395	9.845	61.728	0	0	0
BASE	51	288	CIM4 Min	-0.0077	-6.4469	-5.325	0	0	0
BASE	51	288	CIM5 Max	0.055	6.0799	55.9595	0	0	0
BASE	51	288	CIM5 Min	-0.0105	-1.1616	12.614	0	0	0
BASE	51	288	CIM6 Max	0.0401	8.5821	59.5051	0	0	0
BASE	51	288	CIM6 Min	0.0045	-3.6637	9.0684	0	0	0
BASE	51	288	CIM7 Max	0.0531	5.8223	45.7102	0	0	0
BASE	51	288	CIM7 Min	-0.034	-3.7835	-11.8684	0	0	0
BASE	51	288	CIM8 Max	0.0332	9.1654	50.4474	0	0	0
BASE	51	288	CIM8 Min	-0.0141	-7.1265	-16.6056	0	0	0
BASE	51	288	ENVCIM Max	0.0595	9.845	61.728	0	0	0
BASE	51	288	ENVCIM Min	-0.034	-7.1265	-16.6056	0	0	0
BASE	52	283	CIM1	-0.014	-0.67	32.7569	0	0	0

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	52	283	CIM2	-0.0198	-0.3359	41.3347	0	0	0
BASE	52	283	CIM3 Max	0.0856	3.8497	92.8128	0	0	0
BASE	52	283	CIM3 Min	-0.1135	-5.1897	-27.2991	0	0	0
BASE	52	283	CIM4 Max	0.0424	5.3184	85.7614	0	0	0
BASE	52	283	CIM4 Min	-0.0703	-6.6583	-20.2476	0	0	0
BASE	52	283	CIM5 Max	0.0565	2.9845	84.3667	0	0	0
BASE	52	283	CIM5 Min	-0.0932	-3.8233	-5.9862	0	0	0
BASE	52	283	CIM6 Max	0.0242	4.0837	79.089	0	0	0
BASE	52	283	CIM6 Min	-0.0609	-4.9226	-0.7085	0	0	0
BASE	52	283	CIM7 Max	0.0912	4.1177	79.71	0	0	0
BASE	52	283	CIM7 Min	-0.108	-4.9217	-40.4018	0	0	0
BASE	52	283	CIM8 Max	0.048	5.5864	72.6586	0	0	0
BASE	52	283	CIM8 Min	-0.0648	-6.3903	-33.3504	0	0	0
BASE	52	283	ENVCIM Max	0.0912	5.5864	92.8128	0	0	0
BASE	52	283	ENVCIM Min	-0.1135	-6.6583	-40.4018	0	0	0
BASE	53	287	CIM1	-0.0031	1.7343	30.0709	0	0	0
BASE	53	287	CIM2	-0.0049	2.8337	39.2667	0	0	0
BASE	53	287	CIM3 Max	0.0753	6.3045	69.6465	0	0	0
BASE	53	287	CIM3 Min	-0.0815	-2.8359	-9.5047	0	0	0
BASE	53	287	CIM4 Max	0.0503	9.6029	81.5294	0	0	0
BASE	53	287	CIM4 Min	-0.0565	-6.1342	-21.3876	0	0	0
BASE	53	287	CIM5 Max	0.0545	6.0045	66.7712	0	0	0
BASE	53	287	CIM5 Min	-0.0634	-0.8867	7.1643	0	0	0
BASE	53	287	CIM6 Max	0.0358	8.4732	75.6651	0	0	0
BASE	53	287	CIM6 Min	-0.0447	-3.3554	-1.7297	0	0	0
BASE	53	287	CIM7 Max	0.0766	5.6108	57.6181	0	0	0
BASE	53	287	CIM7 Min	-0.0803	-3.5296	-21.533	0	0	0
BASE	53	287	CIM8 Max	0.0516	8.9092	69.501	0	0	0
BASE	53	287	CIM8 Min	-0.0553	-6.828	-33.416	0	0	0
BASE	53	287	ENVCIM Max	0.0766	9.6029	81.5294	0	0	0
BASE	53	287	ENVCIM Min	-0.0815	-6.828	-33.416	0	0	0
BASE	64	192	CIM1	8.5514	-8.7951	27.0321	0.0292	-0.0662	-0.0035
BASE	64	192	CIM2	11.1488	-11.2659	34.2916	0.03	-0.0986	-0.0054
BASE	64	192	CIM3 Max	24.8581	14.0143	87.5581	0.8812	0.338	0.0853
BASE	64	192	CIM3 Min	-7.7553	-31.6046	-33.4939	-0.8228	-0.4705	-0.0922
BASE	64	192	CIM4 Max	28.6405	16.0602	99.1625	1.0088	0.3021	0.0896
BASE	64	192	CIM4 Min	-11.5376	-33.6504	-45.0983	-0.9504	-0.4346	-0.0965
BASE	64	192	CIM5 Max	22.7774	6.5194	78.0443	0.6712	0.2136	0.0619
BASE	64	192	CIM5 Min	-1.7785	-27.8159	-13.0909	-0.6116	-0.3946	-0.0717
BASE	64	192	CIM6 Max	25.6084	8.0507	86.7298	0.7667	0.1867	0.0651
BASE	64	192	CIM6 Min	-4.6095	-29.3471	-21.7763	-0.7071	-0.3677	-0.0749
BASE	64	192	CIM7 Max	21.4376	17.5324	76.7453	0.8696	0.3645	0.0867
BASE	64	192	CIM7 Min	-11.1758	-28.0865	-44.3068	-0.8345	-0.444	-0.0908
BASE	64	192	CIM8 Max	25.2199	19.5782	88.3497	0.9972	0.3286	0.091
BASE	64	192	CIM8 Min	-14.9582	-30.1324	-55.9112	-0.9621	-0.4081	-0.0951
BASE	64	192	ENVCIM Max	28.6405	19.5782	99.1625	1.0088	0.3645	0.091
BASE	64	192	ENVCIM Min	-14.9582	-33.6504	-55.9112	-0.9621	-0.4705	-0.0965
BASE	65	285	CIM1	-1.9248	0.0066	22.6364	0	0	0
BASE	65	285	CIM2	-2.8934	0.0114	29.1066	0	0	0
BASE	65	285	CIM3 Max	10.4941	0.1187	71.9566	0	0	0
BASE	65	285	CIM3 Min	-14.3437	-0.1055	-26.6837	0	0	0
BASE	65	285	CIM4 Max	6.8506	0.1516	83.1202	0	0	0
BASE	65	285	CIM4 Min	-10.7002	-0.1384	-37.8474	0	0	0

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	65	285	CIM5 Max	6.6864	0.0946	64.6236	0	0	0
BASE	65	285	CIM5 Min	-11.9889	-0.0742	-9.6455	0	0	0
BASE	65	285	CIM6 Max	3.9593	0.1192	72.9793	0	0	0
BASE	65	285	CIM6 Min	-9.2619	-0.0989	-18.0011	0	0	0
BASE	65	285	CIM7 Max	11.2641	0.1161	62.902	0	0	0
BASE	65	285	CIM7 Min	-13.5738	-0.1081	-35.7383	0	0	0
BASE	65	285	CIM8 Max	7.6206	0.149	74.0657	0	0	0
BASE	65	285	CIM8 Min	-9.9303	-0.141	-46.902	0	0	0
BASE	65	285	ENVCIM Max	11.2641	0.1516	83.1202	0	0	0
BASE	65	285	ENVCIM Min	-14.3437	-0.141	-46.902	0	0	0
BASE	66	286	CIM1	-2.0496	0.0065	21.1987	0	0	0
BASE	66	286	CIM2	-3.1051	0.0113	26.9392	0	0	0
BASE	66	286	CIM3 Max	9.7992	0.0972	72.3979	0	0	0
BASE	66	286	CIM3 Min	-13.8984	-0.0841	-30.0005	0	0	0
BASE	66	286	CIM4 Max	5.6589	0.128	81.4643	0	0	0
BASE	66	286	CIM4 Min	-9.7581	-0.115	-39.0669	0	0	0
BASE	66	286	CIM5 Max	6.0664	0.0783	64.0484	0	0	0
BASE	66	286	CIM5 Min	-11.7488	-0.0582	-13.0402	0	0	0
BASE	66	286	CIM6 Max	2.9675	0.1014	70.8343	0	0	0
BASE	66	286	CIM6 Min	-8.65	-0.0813	-19.8261	0	0	0
BASE	66	286	CIM7 Max	10.619	0.0945	63.9184	0	0	0
BASE	66	286	CIM7 Min	-13.0786	-0.0867	-38.48	0	0	0
BASE	66	286	CIM8 Max	6.4787	0.1254	72.9848	0	0	0
BASE	66	286	CIM8 Min	-8.9383	-0.1176	-47.5464	0	0	0
BASE	66	286	ENVCIM Max	10.619	0.128	81.4643	0	0	0
BASE	66	286	ENVCIM Min	-13.8984	-0.1176	-47.5464	0	0	0
BASE	67	193	CIM1	-7.1721	-0.0004	11.5053	0.004	-0.0432	0.004
BASE	67	193	CIM2	-9.099	0.0014	14.8875	0.0048	-0.0666	0.0062
BASE	67	193	CIM3 Max	13.7964	0.0246	41.753	0.0832	0.2721	0.0616
BASE	67	193	CIM3 Min	-28.1406	-0.0253	-18.7425	-0.0751	-0.3586	-0.0536
BASE	67	193	CIM4 Max	16.6563	0.0283	45.7723	0.0971	0.2081	0.0781
BASE	67	193	CIM4 Min	-31.0006	-0.029	-22.7617	-0.0891	-0.2946	-0.0702
BASE	67	193	CIM5 Max	7.1667	0.0197	36.8107	0.0642	0.1764	0.049
BASE	67	193	CIM5 Min	-24.4013	-0.0178	-8.7268	-0.055	-0.2979	-0.0377
BASE	67	193	CIM6 Max	9.3073	0.0225	39.8189	0.0747	0.1285	0.0614
BASE	67	193	CIM6 Min	-26.5419	-0.0206	-11.7351	-0.0654	-0.2501	-0.0501
BASE	67	193	CIM7 Max	16.6652	0.0247	37.1509	0.0816	0.2894	0.06
BASE	67	193	CIM7 Min	-25.2718	-0.0252	-23.3446	-0.0767	-0.3413	-0.0552
BASE	67	193	CIM8 Max	19.5252	0.0284	41.1702	0.0955	0.2254	0.0765
BASE	67	193	CIM8 Min	-28.1318	-0.0289	-27.3638	-0.0907	-0.2773	-0.0717
BASE	67	193	ENVCIM Max	19.5252	0.0284	45.7723	0.0971	0.2894	0.0781
BASE	67	193	ENVCIM Min	-31.0006	-0.029	-27.3638	-0.0907	-0.3586	-0.0717
BASE	68	194	CIM1	0.0719	-13.4601	14.1085	-0.0427	0.0326	0.0004
BASE	68	194	CIM2	0.1111	-17.738	18.0464	-0.0677	0.0504	0.0006
BASE	68	194	CIM3 Max	0.2084	7.1522	42.8077	0.1943	0.1055	0.0364
BASE	68	194	CIM3 Min	-0.0647	-34.0725	-14.5907	-0.2796	-0.0402	-0.0357
BASE	68	194	CIM4 Max	0.2112	13.7747	49.4228	0.1881	0.1033	0.0263
BASE	68	194	CIM4 Min	-0.0674	-40.6949	-21.2057	-0.2734	-0.038	-0.0255
BASE	68	194	CIM5 Max	0.204	-1.145	38.6706	0.1168	0.1008	0.0277
BASE	68	194	CIM5 Min	-0.0015	-32.1921	-4.5468	-0.2397	-0.0088	-0.0266
BASE	68	194	CIM6 Max	0.2061	3.8117	43.6218	0.1122	0.0992	0.0201
BASE	68	194	CIM6 Min	-0.0035	-37.1488	-9.498	-0.2351	-0.0072	-0.019
BASE	68	194	CIM7 Max	0.1797	12.5363	37.1643	0.2113	0.0924	0.0363

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	68	194	CIM7 Min	-0.0934	-28.6884	-20.2341	-0.2625	-0.0532	-0.0359
BASE	68	194	CIM8 Max	0.1824	19.1587	43.7794	0.2051	0.0902	0.0261
BASE	68	194	CIM8 Min	-0.0961	-35.3108	-26.8491	-0.2563	-0.0511	-0.0257
BASE	68	194	ENVCIM Max	0.2112	19.1587	49.4228	0.2113	0.1055	0.0364
BASE	68	194	ENVCIM Min	-0.0961	-40.6949	-26.8491	-0.2796	-0.0532	-0.0359
BASE	91	300	CIM1	0.6299	-1.0383	19.7385	0	0	0
BASE	91	300	CIM2	0.7926	-1.6265	20.8728	0	0	0
BASE	91	300	CIM3 Max	0.8569	43.94	48.0836	0	0	0
BASE	91	300	CIM3 Min	0.4029	-46.0165	-8.6065	0	0	0
BASE	91	300	CIM4 Max	0.7959	46.6472	50.1213	0	0	0
BASE	91	300	CIM4 Min	0.4639	-48.7238	-10.6442	0	0	0
BASE	91	300	CIM5 Max	0.9226	32.371	41.9223	0	0	0
BASE	91	300	CIM5 Min	0.5812	-35.3299	-0.7437	0	0	0
BASE	91	300	CIM6 Max	0.8769	34.3973	43.4475	0	0	0
BASE	91	300	CIM6 Min	0.6269	-37.3562	-2.2689	0	0	0
BASE	91	300	CIM7 Max	0.6049	44.3553	40.1881	0	0	0
BASE	91	300	CIM7 Min	0.151	-45.6012	-16.5019	0	0	0
BASE	91	300	CIM8 Max	0.5439	47.0625	42.2259	0	0	0
BASE	91	300	CIM8 Min	0.212	-48.3085	-18.5397	0	0	0
BASE	91	300	ENVCIM Max	0.9226	47.0625	50.1213	0	0	0
BASE	91	300	ENVCIM Min	0.151	-48.7238	-18.5397	0	0	0
BASE	93	138	CIM1	5.1501	-0.9939	150.8814	1.0047	5.2035	-0.0115
BASE	93	138	CIM2	6.2743	-1.1944	188.8234	1.2154	6.34	-0.0164
BASE	93	138	CIM3 Max	5.6625	0.8652	152.1145	2.1759	6.3195	0.09
BASE	93	138	CIM3 Min	4.6377	-2.8531	149.6484	-0.1664	4.0875	-0.113
BASE	93	138	CIM4 Max	5.5952	0.6555	152.0201	2.592	6.0429	0.1125
BASE	93	138	CIM4 Min	4.705	-2.6433	149.7428	-0.5825	4.3641	-0.1355
BASE	93	138	CIM5 Max	6.3786	0.2543	180.2655	2.0448	6.8951	0.0613
BASE	93	138	CIM5 Min	5.6078	-2.5428	178.4103	0.2807	5.2167	-0.0916
BASE	93	138	CIM6 Max	6.3283	0.0973	180.1949	2.3563	6.6881	0.0781
BASE	93	138	CIM6 Min	5.6581	-2.3858	178.4809	-0.0308	5.4237	-0.1084
BASE	93	138	CIM7 Max	3.6025	1.2628	91.7619	1.774	4.2381	0.0946
BASE	93	138	CIM7 Min	2.5776	-2.4555	89.2959	-0.5683	2.0061	-0.1084
BASE	93	138	CIM8 Max	3.5352	1.053	91.6675	2.1901	3.9615	0.1171
BASE	93	138	CIM8 Min	2.6449	-2.2457	89.3902	-0.9844	2.2827	-0.1309
BASE	93	138	ENVCIM Max	6.3786	1.2628	188.8234	2.592	6.8951	0.1171
BASE	93	138	ENVCIM Min	2.5776	-2.8531	89.2959	-0.9844	2.0061	-0.1355
BASE	94	141	CIM1	-2.3242	-0.4519	192.5006	0.5246	-2.3094	-0.001
BASE	94	141	CIM2	-2.8933	-0.6448	244.589	0.7635	-2.8717	-0.0013
BASE	94	141	CIM3 Max	-2.0697	0.3725	193.8571	3.382	-1.1626	0.0773
BASE	94	141	CIM3 Min	-2.5787	-1.2764	191.144	-2.3327	-3.4563	-0.0794
BASE	94	141	CIM4 Max	-2.0353	0.6218	193.5818	3.9807	-1.3471	0.0735
BASE	94	141	CIM4 Min	-2.6131	-1.5257	191.4194	-2.9315	-3.2717	-0.0756
BASE	94	141	CIM5 Max	-2.5594	0.0243	232.5871	2.855	-1.8685	0.0577
BASE	94	141	CIM5 Min	-2.9426	-1.2175	230.5467	-1.4475	-3.5937	-0.0602
BASE	94	141	CIM6 Max	-2.5337	0.2109	232.381	3.3032	-2.0067	0.0549
BASE	94	141	CIM6 Min	-2.9683	-1.4041	230.7527	-1.8957	-3.4556	-0.0573
BASE	94	141	CIM7 Max	-1.14	0.5533	116.8569	3.1721	-0.2388	0.0777
BASE	94	141	CIM7 Min	-1.649	-1.0956	114.1438	-2.5426	-2.5325	-0.079
BASE	94	141	CIM8 Max	-1.1056	0.8026	116.5815	3.7709	-0.4233	0.0739
BASE	94	141	CIM8 Min	-1.6834	-1.3449	114.4191	-3.1413	-2.3479	-0.0752
BASE	94	141	ENVCIM Max	-1.1056	0.8026	244.589	3.9807	-0.2388	0.0777
BASE	94	141	ENVCIM Min	-2.9683	-1.5257	114.1438	-3.1413	-3.5937	-0.0794

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	95	144	CIM1	2.5531	1.3918	214.5066	-1.3113	2.5614	-0.001
BASE	95	144	CIM2	3.037	1.6051	273.7751	-1.4768	3.0505	-0.0013
BASE	95	144	CIM3 Max	2.7996	2.0394	216.5834	1.1957	3.695	0.0773
BASE	95	144	CIM3 Min	2.3067	0.7441	212.4299	-3.8182	1.4277	-0.0794
BASE	95	144	CIM4 Max	2.8342	2.227	216.1608	1.7248	3.5127	0.0735
BASE	95	144	CIM4 Min	2.2721	0.5565	212.8525	-4.3473	1.61	-0.0756
BASE	95	144	CIM5 Max	3.1015	2.0395	260.5198	0.452	3.7809	0.0577
BASE	95	144	CIM5 Min	2.7305	1.0641	257.3961	-3.3229	2.0756	-0.0602
BASE	95	144	CIM6 Max	3.1274	2.1799	260.2035	0.8481	3.6445	0.0549
BASE	95	144	CIM6 Min	2.7046	0.9237	257.7124	-3.7189	2.212	-0.0573
BASE	95	144	CIM7 Max	1.7783	1.4827	130.7807	1.7202	2.6704	0.0777
BASE	95	144	CIM7 Min	1.2854	0.1874	126.6272	-3.2937	0.4032	-0.079
BASE	95	144	CIM8 Max	1.8129	1.6703	130.3581	2.2493	2.4882	0.0739
BASE	95	144	CIM8 Min	1.2508	-0.0002	127.0498	-3.8228	0.5854	-0.0752
BASE	95	144	ENVCIM Max	3.1274	2.227	273.7751	2.2493	3.7809	0.0777
BASE	95	144	ENVCIM Min	1.2508	-0.0002	126.6272	-4.3473	0.4032	-0.0794
BASE	96	147	CIM1	-4.8668	1.8251	153.912	-1.7362	-4.8485	-0.001
BASE	96	147	CIM2	-5.8373	2.1546	200.7391	-2.0159	-5.8117	-0.0013
BASE	96	147	CIM3 Max	-4.551	2.7284	163.0014	0.6115	-3.603	0.0773
BASE	96	147	CIM3 Min	-5.1825	0.9219	144.8227	-4.084	-6.094	-0.0794
BASE	96	147	CIM4 Max	-4.5265	2.9336	166.0576	1.163	-3.8053	0.0735
BASE	96	147	CIM4 Min	-5.207	0.7167	141.7665	-4.6355	-5.8918	-0.0756
BASE	96	147	CIM5 Max	-5.357	2.7523	195.878	-0.1782	-4.6341	0.0577
BASE	96	147	CIM5 Min	-5.8323	1.3921	182.1867	-3.7137	-6.5077	-0.0602
BASE	96	147	CIM6 Max	-5.3386	2.9059	198.1655	0.2345	-4.7855	0.0549
BASE	96	147	CIM6 Min	-5.8507	1.2386	179.8992	-4.1264	-6.3564	-0.0573
BASE	96	147	CIM7 Max	-2.6043	1.9983	101.4366	1.306	-1.6636	0.0777
BASE	96	147	CIM7 Min	-3.2358	0.1919	83.2579	-3.3895	-4.1546	-0.079
BASE	96	147	CIM8 Max	-2.5798	2.2035	104.4928	1.8575	-1.8658	0.0739
BASE	96	147	CIM8 Min	-3.2603	-0.0133	80.2016	-3.941	-3.9524	-0.0752
BASE	96	147	ENVCIM Max	-2.5798	2.9336	200.7391	1.8575	-1.6636	0.0777
BASE	96	147	ENVCIM Min	-5.8507	-0.0133	80.2016	-4.6355	-6.5077	-0.0794
BASE	97	149	CIM1	9.4093	0.1882	48.0562	-0.0974	9.4082	-0.001
BASE	97	149	CIM2	15.631	0.1381	74.2907	0.0031	15.6275	-0.0013
BASE	97	149	CIM3 Max	10.6473	2.3678	49.7891	3.2326	11.6499	0.0773
BASE	97	149	CIM3 Min	8.1712	-1.9913	46.3233	-3.4273	7.1666	-0.0794
BASE	97	149	CIM4 Max	10.3908	3.1825	50.148	4.4328	11.1807	0.0735
BASE	97	149	CIM4 Min	8.4278	-2.8061	45.9644	-4.6275	7.6358	-0.0756
BASE	97	149	CIM5 Max	15.0066	1.7923	69.0367	2.4861	15.7585	0.0577
BASE	97	149	CIM5 Min	13.1444	-1.4911	66.4274	-2.5302	12.3868	-0.0602
BASE	97	149	CIM6 Max	14.8146	2.4021	69.3054	3.3844	15.4073	0.0549
BASE	97	149	CIM6 Min	13.3365	-2.1009	66.1588	-3.4284	12.738	-0.0573
BASE	97	149	CIM7 Max	6.8836	2.2925	30.5666	3.2716	7.8866	0.0777
BASE	97	149	CIM7 Min	4.4075	-2.0666	27.1008	-3.3884	3.4033	-0.079
BASE	97	149	CIM8 Max	6.6271	3.1072	30.9255	4.4717	7.4174	0.0739
BASE	97	149	CIM8 Min	4.6641	-2.8814	26.742	-4.5886	3.8725	-0.0752
BASE	97	149	ENVCIM Max	15.631	3.1825	74.2907	4.4717	15.7585	0.0777
BASE	97	149	ENVCIM Min	4.4075	-2.8814	26.742	-4.6275	3.4033	-0.0794
BASE	99	151	CIM1	1.2524	-0.8404	66.1186	0.9391	1.2624	-0.001
BASE	99	151	CIM2	2.0474	-1.3165	103.9954	1.4671	2.0623	-0.0013
BASE	99	151	CIM3 Max	2.2785	-0.1236	66.1732	2.2868	3.2926	0.0773
BASE	99	151	CIM3 Min	0.2263	-1.5572	66.0641	-0.4087	-0.7678	-0.0794
BASE	99	151	CIM4 Max	2.0607	0.4036	66.1889	3.2764	2.8623	0.0735

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	99	151	CIM4 Min	0.4441	-2.0844	66.0484	-1.3983	-0.3376	-0.0756
BASE	99	151	CIM5 Max	2.6203	-0.657	94.5673	2.3512	3.3891	0.0577
BASE	99	151	CIM5 Min	1.0769	-1.7379	94.4851	0.319	0.3355	-0.0602
BASE	99	151	CIM6 Max	2.4573	-0.2624	94.579	3.0919	3.0671	0.0549
BASE	99	151	CIM6 Min	1.24	-2.1325	94.4734	-0.4217	0.6575	-0.0573
BASE	99	151	CIM7 Max	1.7776	0.2126	39.7258	1.9111	2.7876	0.0777
BASE	99	151	CIM7 Min	-0.2747	-1.221	39.6166	-0.7843	-1.2728	-0.079
BASE	99	151	CIM8 Max	1.5597	0.7398	39.7414	2.9008	2.3574	0.0739
BASE	99	151	CIM8 Min	-0.0568	-1.7482	39.601	-1.7739	-0.8425	-0.0752
BASE	99	151	ENVCIM Max	2.6203	0.7398	103.9954	3.2764	3.3891	0.0777
BASE	99	151	ENVCIM Min	-0.2747	-2.1325	39.601	-1.7739	-1.2728	-0.0794
BASE	101	153	CIM1	-19.787	-11.5304	61.1672	3.1668	-19.9813	-0.001
BASE	101	153	CIM2	-32.5187	-16.8833	81.8511	4.6304	-32.8413	-0.0013
BASE	101	153	CIM3 Max	-18.7494	79.103	68.2919	23.5574	-17.2777	0.0773
BASE	101	153	CIM3 Min	-20.8245	-102.1638	54.0424	-17.2238	-22.685	-0.0794
BASE	101	153	CIM4 Max	-18.9661	109.5741	66.8767	30.4863	-17.8463	0.0735
BASE	101	153	CIM4 Min	-20.6078	-132.6349	55.4577	-24.1527	-22.1163	-0.0756
BASE	101	153	CIM5 Max	-28.5555	52.7154	82.0385	19.6218	-27.593	0.0577
BASE	101	153	CIM5 Min	-30.116	-83.8055	71.3217	-11.0928	-31.6596	-0.0602
BASE	101	153	CIM6 Max	-28.7176	75.522	80.9792	24.8079	-28.0186	0.0549
BASE	101	153	CIM6 Min	-29.9539	-106.6121	72.381	-16.2788	-31.234	-0.0573
BASE	101	153	CIM7 Max	-10.8347	83.7152	43.8251	22.2907	-9.2852	0.0777
BASE	101	153	CIM7 Min	-12.9097	-97.5516	29.5756	-18.4905	-14.6924	-0.079
BASE	101	153	CIM8 Max	-11.0513	114.1863	42.4098	29.2196	-9.8538	0.0739
BASE	101	153	CIM8 Min	-12.6931	-128.0227	30.9908	-25.4194	-14.1238	-0.0752
BASE	101	153	ENVCIM Max	-10.8347	114.1863	82.0385	30.4863	-9.2852	0.0777
BASE	101	153	ENVCIM Min	-32.5187	-132.6349	29.5756	-25.4194	-32.8413	-0.0794
BASE	136	156	CIM1	-0.0259	46.3767	102.4129	-0.197	-0.0446	-0.0106
BASE	136	156	CIM2	-0.0107	60.6512	132.9017	-0.3543	-0.0324	-0.0151
BASE	136	156	CIM3 Max	1.3256	67.0499	154.8253	1.692	1.0872	0.8226
BASE	136	156	CIM3 Min	-1.3773	25.7035	50.0005	-2.086	-1.1764	-0.8437
BASE	136	156	CIM4 Max	1.3095	65.5359	153.9029	1.6983	1.1608	0.6985
BASE	136	156	CIM4 Min	-1.3613	27.2175	50.9229	-2.0923	-1.2501	-0.7197
BASE	136	156	CIM5 Max	1.0024	72.6356	164.7167	1.1065	0.8163	0.6127
BASE	136	156	CIM5 Min	-1.0314	41.5295	85.8423	-1.7364	-0.8872	-0.6406
BASE	136	156	CIM6 Max	0.9904	71.5024	164.0263	1.1112	0.8715	0.5199
BASE	136	156	CIM6 Min	-1.0194	42.6627	86.5327	-1.7411	-0.9424	-0.5478
BASE	136	156	CIM7 Max	1.3359	48.4992	113.8601	1.7708	1.105	0.8268
BASE	136	156	CIM7 Min	-1.367	7.1528	9.0353	-2.0072	-1.1585	-0.8395
BASE	136	156	CIM8 Max	1.3198	46.9852	112.9377	1.7771	1.1787	0.7028
BASE	136	156	CIM8 Min	-1.3509	8.6668	9.9577	-2.0135	-1.2322	-0.7155
BASE	136	156	ENVCIM Max	1.3359	72.6356	164.7167	1.7771	1.1787	0.8268
BASE	136	156	ENVCIM Min	-1.3773	7.1528	9.0353	-2.0923	-1.2501	-0.8437
BASE	137	162	CIM1	-0.5482	28.9169	103.6234	-2.7704	-0.9287	-0.01
BASE	137	162	CIM2	-0.8626	36.2227	132.743	-4.4051	-1.4659	-0.0142
BASE	137	162	CIM3 Max	0.8505	67.7802	161.764	5.9557	0.7974	0.7767
BASE	137	162	CIM3 Min	-1.9469	-9.9464	45.4829	-11.4966	-2.6548	-0.7966
BASE	137	162	CIM4 Max	1.0169	78.7654	164.9933	5.7866	0.8906	0.6596
BASE	137	162	CIM4 Min	-2.1133	-20.9316	42.2536	-11.3275	-2.748	-0.6795
BASE	137	162	CIM5 Max	0.2688	63.6619	169.2189	2.5694	-0.0326	0.5785
BASE	137	162	CIM5 Min	-1.8368	5.1305	81.7073	-10.5623	-2.6306	-0.6049
BASE	137	162	CIM6 Max	0.3933	71.8839	171.6359	2.4429	0.0372	0.4909
BASE	137	162	CIM6 Min	-1.9614	-3.0915	79.2903	-10.4357	-2.7004	-0.5172

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	137	162	CIM7 Max	1.0698	56.2134	120.3146	7.0639	1.1689	0.7807
BASE	137	162	CIM7 Min	-1.7276	-21.5131	4.0335	-10.3884	-2.2833	-0.7927
BASE	137	162	CIM8 Max	1.2362	67.1986	123.5439	6.8948	1.2621	0.6636
BASE	137	162	CIM8 Min	-1.894	-32.4983	0.8043	-10.2193	-2.3765	-0.6755
BASE	137	162	ENVCIM Max	1.2362	78.7654	171.6359	7.0639	1.2621	0.7807
BASE	137	162	ENVCIM Min	-2.1133	-32.4983	0.8043	-11.4966	-2.748	-0.7966
BASE	138	301	CIM1	0.0101	-1.4789	6.7481	0	0	0
BASE	138	301	CIM2	0.0126	-1.6371	6.8217	0	0	0
BASE	138	301	CIM3 Max	0.0212	9.8967	12.2819	0	0	0
BASE	138	301	CIM3 Min	-0.001	-12.8544	1.2144	0	0	0
BASE	138	301	CIM4 Max	0.022	10.5468	12.5989	0	0	0
BASE	138	301	CIM4 Min	-0.0018	-13.5046	0.8973	0	0	0
BASE	138	301	CIM5 Max	0.0203	6.9636	10.9679	0	0	0
BASE	138	301	CIM5 Min	0.0036	-10.1586	2.6387	0	0	0
BASE	138	301	CIM6 Max	0.0209	7.4502	11.2052	0	0	0
BASE	138	301	CIM6 Min	0.003	-10.6452	2.4013	0	0	0
BASE	138	301	CIM7 Max	0.0171	10.4882	9.5826	0	0	0
BASE	138	301	CIM7 Min	-0.005	-12.2629	-1.4848	0	0	0
BASE	138	301	CIM8 Max	0.018	11.1383	9.8997	0	0	0
BASE	138	301	CIM8 Min	-0.0059	-12.913	-1.8019	0	0	0
BASE	138	301	ENVCIM Max	0.022	11.1383	12.5989	0	0	0
BASE	138	301	ENVCIM Min	-0.0059	-13.5046	-1.8019	0	0	0
BASE	140	137	CIM1	3.0325	-0.2976	88.5822	0.2909	3.1389	-0.0134
BASE	140	137	CIM2	3.5273	-0.478	109.4316	0.4546	3.6743	-0.0239
BASE	140	137	CIM3 Max	3.4075	1.3608	92.0295	2.1851	4.5568	0.2133
BASE	140	137	CIM3 Min	2.6575	-1.9561	85.1348	-1.6033	1.721	-0.2401
BASE	140	137	CIM4 Max	3.5445	1.2285	91.8196	2.7112	4.4301	0.2036
BASE	140	137	CIM4 Min	2.5206	-1.8238	85.3447	-2.1295	1.8476	-0.2305
BASE	140	137	CIM5 Max	3.6861	0.8148	106.8129	1.84	4.6071	0.1493
BASE	140	137	CIM5 Min	3.1212	-1.6806	101.6256	-1.0127	2.4738	-0.1919
BASE	140	137	CIM6 Max	3.7886	0.7158	106.6558	2.2338	4.5123	0.1421
BASE	140	137	CIM6 Min	3.0186	-1.5816	101.7827	-1.4065	2.5686	-0.1846
BASE	140	137	CIM7 Max	2.1945	1.4799	56.5967	2.0687	3.3012	0.2187
BASE	140	137	CIM7 Min	1.4445	-1.8371	49.7019	-1.7197	0.4654	-0.2348
BASE	140	137	CIM8 Max	2.3315	1.3476	56.3867	2.5948	3.1746	0.209
BASE	140	137	CIM8 Min	1.3075	-1.7048	49.9118	-2.2458	0.5921	-0.2251
BASE	140	137	ENVCIM Max	3.7886	1.4799	109.4316	2.7112	4.6071	0.2187
BASE	140	137	ENVCIM Min	1.3075	-1.9561	49.7019	-2.2458	0.4654	-0.2401
BASE	141	140	CIM1	-1.4307	-0.9061	111.3313	0.9782	-1.4102	-0.001
BASE	141	140	CIM2	-1.805	-1.1064	137.657	1.2245	-1.7764	-0.0013
BASE	141	140	CIM3 Max	-1.0331	-0.0826	115.1356	3.4209	0.3041	0.0773
BASE	141	140	CIM3 Min	-1.8283	-1.7297	107.527	-1.4644	-3.1246	-0.0794
BASE	141	140	CIM4 Max	-0.8914	0.0181	115.2661	3.9877	0.1464	0.0735
BASE	141	140	CIM4 Min	-1.97	-1.8304	107.3964	-2.0312	-2.9668	-0.0756
BASE	141	140	CIM5 Max	-1.412	-0.4364	133.9384	3.0021	-0.3952	0.0577
BASE	141	140	CIM5 Min	-2.0109	-1.6763	128.2126	-0.6763	-2.9746	-0.0602
BASE	141	140	CIM6 Max	-1.3059	-0.3611	134.0362	3.4263	-0.5132	0.0549
BASE	141	140	CIM6 Min	-2.117	-1.7517	128.1149	-1.1005	-2.8565	-0.0573
BASE	141	140	CIM7 Max	-0.4608	0.2799	70.6031	3.0296	0.8682	0.0777
BASE	141	140	CIM7 Min	-1.256	-1.3673	62.9945	-1.8557	-2.5605	-0.079
BASE	141	140	CIM8 Max	-0.3191	0.3806	70.7336	3.5964	0.7105	0.0739
BASE	141	140	CIM8 Min	-1.3977	-1.468	62.8639	-2.4225	-2.4028	-0.0752
BASE	141	140	ENVCIM Max	-0.3191	0.3806	137.657	3.9877	0.8682	0.0777

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	141	140	ENVCIM Min	-2.117	-1.8304	62.8639	-2.4225	-3.1246	-0.0794
BASE	142	143	CIM1	0.3074	-4.1005	136.0395	4.1736	0.3255	-0.001
BASE	142	143	CIM2	0.1352	-4.9028	168.4624	5.0223	0.1611	-0.0013
BASE	142	143	CIM3 Max	0.6821	-3.5589	142.6151	6.3425	1.9914	0.0773
BASE	142	143	CIM3 Min	-0.0673	-4.6421	129.4639	2.0047	-1.3404	-0.0794
BASE	142	143	CIM4 Max	0.839	-3.4707	142.1351	6.8272	1.8424	0.0735
BASE	142	143	CIM4 Min	-0.2242	-4.7303	129.9439	1.5199	-1.1914	-0.0756
BASE	142	143	CIM5 Max	0.4605	-4.2945	165.3037	6.4431	1.4555	0.0577
BASE	142	143	CIM5 Min	-0.1041	-5.11	155.4097	3.1772	-1.051	-0.0602
BASE	142	143	CIM6 Max	0.5779	-4.2285	164.9445	6.806	1.3439	0.0549
BASE	142	143	CIM6 Min	-0.2215	-5.176	155.7689	2.8143	-0.9395	-0.0573
BASE	142	143	CIM7 Max	0.5592	-1.9187	88.1993	4.673	1.8612	0.0777
BASE	142	143	CIM7 Min	-0.1903	-3.0019	75.0481	0.3353	-1.4706	-0.079
BASE	142	143	CIM8 Max	0.716	-1.8305	87.7193	5.1578	1.7122	0.0739
BASE	142	143	CIM8 Min	-0.3471	-3.0901	75.5281	-0.1495	-1.3216	-0.0752
BASE	142	143	ENVCIM Max	0.839	-1.8305	168.4624	6.8272	1.9914	0.0777
BASE	142	143	ENVCIM Min	-0.3471	-5.176	75.0481	-0.1495	-1.4706	-0.0794
BASE	145	148	CIM1	-1.0384	-3.4481	131.9367	3.5299	-1.0185	-0.001
BASE	145	148	CIM2	-0.8547	-4.0731	168.6895	4.2034	-0.8274	-0.0013
BASE	145	148	CIM3 Max	-0.5943	-3.0862	140.4546	5.2869	0.774	0.0773
BASE	145	148	CIM3 Min	-1.4825	-3.8101	123.4189	1.7729	-2.811	-0.0794
BASE	145	148	CIM4 Max	-0.4996	-3.0671	140.9589	5.6367	0.5883	0.0735
BASE	145	148	CIM4 Min	-1.5772	-3.8291	122.9145	1.4231	-2.6253	-0.0756
BASE	145	148	CIM5 Max	-0.5663	-3.6444	165.9118	5.3578	0.4733	0.0577
BASE	145	148	CIM5 Min	-1.235	-4.1893	153.0908	2.7122	-2.2236	-0.0602
BASE	145	148	CIM6 Max	-0.4954	-3.6302	166.2893	5.6196	0.3343	0.0549
BASE	145	148	CIM6 Min	-1.3059	-4.2035	152.7134	2.4504	-2.0846	-0.0573
BASE	145	148	CIM7 Max	-0.179	-1.7069	87.6799	3.8749	1.1814	0.0777
BASE	145	148	CIM7 Min	-1.0671	-2.4309	70.6442	0.361	-2.4036	-0.079
BASE	145	148	CIM8 Max	-0.0842	-1.6879	88.1842	4.2247	0.9957	0.0739
BASE	145	148	CIM8 Min	-1.1618	-2.4499	70.1398	0.0112	-2.2179	-0.0752
BASE	145	148	ENVCIM Max	-0.0842	-1.6879	168.6895	5.6367	1.1814	0.0777
BASE	145	148	ENVCIM Min	-1.5772	-4.2035	70.1398	0.0112	-2.811	-0.0794
BASE	146	154	CIM1	45.1774	-43.1628	202.1983	-0.7121	-0.5165	-0.0442
BASE	146	154	CIM2	59.9375	-55.4285	263.347	-1.1298	-0.5551	-0.0705
BASE	146	154	CIM3 Max	74.5276	-30.0771	225.7332	2.8968	1.878	1.4534
BASE	146	154	CIM3 Min	15.8272	-56.2486	178.6634	-4.3209	-2.9109	-1.5418
BASE	146	154	CIM4 Max	71.3115	-29.4792	224.5044	2.9975	3.1755	1.5015
BASE	146	154	CIM4 Min	19.0434	-56.8464	179.8922	-4.4217	-4.2085	-1.59
BASE	146	154	CIM5 Max	78.3263	-42.5142	265.7668	1.6904	1.2589	1.0631
BASE	146	154	CIM5 Min	34.1686	-62.21	230.3529	-3.7411	-2.3498	-1.1909
BASE	146	154	CIM6 Max	75.9191	-42.0667	264.8471	1.7658	2.2301	1.0991
BASE	146	154	CIM6 Min	36.5758	-62.6575	231.2726	-3.8166	-3.321	-1.227
BASE	146	154	CIM7 Max	56.4566	-12.8119	144.8539	3.1816	2.0846	1.4711
BASE	146	154	CIM7 Min	-2.2437	-38.9834	97.7841	-4.0361	-2.7044	-1.5241
BASE	146	154	CIM8 Max	53.2405	-12.2141	143.6251	3.2824	3.3821	1.5192
BASE	146	154	CIM8 Min	0.9724	-39.5813	99.0129	-4.1369	-4.0019	-1.5723
BASE	146	154	ENVCIM Max	78.3263	-12.2141	265.7668	3.2824	3.3821	1.5192
BASE	146	154	ENVCIM Min	-2.2437	-62.6575	97.7841	-4.4217	-4.2085	-1.59
BASE	147	155	CIM1	-46.948	0.1566	104.8955	-0.079	0.1255	0.0564
BASE	147	155	CIM2	-61.0945	0.2701	136.3923	-0.1416	0.4093	0.0875
BASE	147	155	CIM3 Max	-32.3489	0.5111	152.09	1.6647	2.6722	0.7132
BASE	147	155	CIM3 Min	-61.5471	-0.1978	57.7009	-1.8228	-2.4213	-0.6004

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	147	155	CIM4 Max	-25.4994	0.7245	159.2496	1.937	3.3475	0.9561
BASE	147	155	CIM4 Min	-68.3965	-0.4113	50.5414	-2.0951	-3.0966	-0.8433
BASE	147	155	CIM5 Max	-46.5587	0.5089	164.0452	1.1867	2.2561	0.5745
BASE	147	155	CIM5 Min	-68.557	-0.0254	92.991	-1.4386	-1.5794	-0.415
BASE	147	155	CIM6 Max	-41.4321	0.6687	169.4039	1.3905	2.7615	0.7563
BASE	147	155	CIM6 Min	-73.6836	-0.1852	87.6324	-1.6425	-2.0848	-0.5968
BASE	147	155	CIM7 Max	-13.5697	0.4484	110.1318	1.6963	2.6221	0.6907
BASE	147	155	CIM7 Min	-42.7679	-0.2605	15.7427	-1.7912	-2.4715	-0.623
BASE	147	155	CIM8 Max	-6.7202	0.6619	117.2914	1.9687	3.2973	0.9336
BASE	147	155	CIM8 Min	-49.6173	-0.474	8.5832	-2.0635	-3.1467	-0.8659
BASE	147	155	ENVCIM Max	-6.7202	0.7245	169.4039	1.9687	3.3475	0.9561
BASE	147	155	ENVCIM Min	-73.6836	-0.474	8.5832	-2.0951	-3.1467	-0.8659
BASE	155	152	CIM1	0.8769	6.7879	51.8755	-6.6789	0.8942	-0.001
BASE	155	152	CIM2	1.3724	10.9898	79.175	-10.8225	1.3967	-0.0013
BASE	155	152	CIM3 Max	3.0363	7.2744	52.087	-5.5619	4.4935	0.0773
BASE	155	152	CIM3 Min	-1.2825	6.3013	51.6639	-7.7959	-2.7051	-0.0794
BASE	155	152	CIM4 Max	2.7476	7.616	52.2316	-4.7571	4.0019	0.0735
BASE	155	152	CIM4 Min	-0.9938	5.9597	51.5193	-8.6006	-2.2135	-0.0756
BASE	155	152	CIM5 Max	2.8729	10.3061	72.5096	-8.9445	3.9785	0.0577
BASE	155	152	CIM5 Min	-0.3758	9.5724	72.1906	-10.6288	-1.4363	-0.0602
BASE	155	152	CIM6 Max	2.6568	10.5618	72.6178	-8.3422	3.6105	0.0549
BASE	155	152	CIM6 Min	-0.1597	9.3168	72.0824	-11.2311	-1.0683	-0.0573
BASE	155	152	CIM7 Max	2.6855	4.5593	31.3368	-2.8903	4.1358	0.0777
BASE	155	152	CIM7 Min	-1.6333	3.5861	30.9137	-5.1243	-3.0628	-0.079
BASE	155	152	CIM8 Max	2.3968	4.9009	31.4814	-2.0856	3.6442	0.0739
BASE	155	152	CIM8 Min	-1.3445	3.2445	30.7692	-5.9291	-2.5711	-0.0752
BASE	155	152	ENVCIM Max	3.0363	10.9898	79.175	-2.0856	4.4935	0.0777
BASE	155	152	ENVCIM Min	-1.6333	3.2445	30.7692	-11.2311	-3.0628	-0.0794
BASE	164	161	CIM1	24.8365	0.5654	60.7202	-0.366	-1.8431	-0.0663
BASE	164	161	CIM2	32.2	0.8628	78.4067	-0.5609	-2.5257	-0.0998
BASE	164	161	CIM3 Max	34.849	2.2239	104.2311	0.3915	2.7559	0.3788
BASE	164	161	CIM3 Min	14.8239	-1.0932	17.2093	-1.1235	-6.4422	-0.5114
BASE	164	161	CIM4 Max	33.9962	2.1863	99.4894	0.4236	4.1426	0.5914
BASE	164	161	CIM4 Min	15.6767	-1.0555	21.9509	-1.1557	-7.8288	-0.724
BASE	164	161	CIM5 Max	37.8916	2.0363	106.7164	0.0578	1.1084	0.2439
BASE	164	161	CIM5 Min	22.8266	-0.4595	41.2537	-1.0823	-5.8185	-0.4268
BASE	164	161	CIM6 Max	37.2533	2.0082	103.1674	0.0819	2.1463	0.4031
BASE	164	161	CIM6 Min	23.4649	-0.4314	44.8026	-1.1063	-6.8564	-0.5859
BASE	164	161	CIM7 Max	24.9144	1.9978	79.943	0.5379	3.4932	0.4053
BASE	164	161	CIM7 Min	4.8894	-1.3193	-7.0788	-0.9771	-5.7049	-0.4849
BASE	164	161	CIM8 Max	24.0616	1.9602	75.2013	0.57	4.8799	0.6179
BASE	164	161	CIM8 Min	5.7422	-1.2817	-2.3371	-1.0092	-7.0916	-0.6975
BASE	164	161	ENVCIM Max	37.8916	2.2239	106.7164	0.57	4.8799	0.6179
BASE	164	161	ENVCIM Min	4.8894	-1.3193	-7.0788	-1.1557	-7.8288	-0.724
BASE	165	160	CIM1	-37.1881	-16.9413	146.9424	-1.6098	-1.9477	0.0778
BASE	165	160	CIM2	-48.6401	-20.257	188.4356	-2.4179	-2.5689	0.1159
BASE	165	160	CIM3 Max	7.7303	-0.3082	198.5529	1.3996	2.9294	1.2691
BASE	165	160	CIM3 Min	-82.1065	-33.5745	95.3319	-4.6191	-6.8247	-1.1134
BASE	165	160	CIM4 Max	13.8692	-1.8082	219.423	1.2068	5.0179	1.2358
BASE	165	160	CIM4 Min	-88.2453	-32.0744	74.4619	-4.4263	-8.9132	-1.0801
BASE	165	160	CIM5 Max	-11.9648	-6.915	216.9397	0.0482	1.2605	1.0027
BASE	165	160	CIM5 Min	-79.5894	-31.9411	139.1848	-4.48	-6.0876	-0.7899
BASE	165	160	CIM6 Max	-7.3701	-8.0378	232.5603	-0.0961	2.8237	0.9778

Story	Joint Label	Unique Name	Load Case/Comb o	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
BASE	165	160	CIM6 Min	-84.1841	-30.8183	123.5643	-4.3357	-7.6508	-0.765
BASE	165	160	CIM7 Max	22.6056	6.4684	139.776	2.0435	3.7085	1.238
BASE	165	160	CIM7 Min	-67.2312	-26.7979	36.5549	-3.9752	-6.0457	-1.1445
BASE	165	160	CIM8 Max	28.7444	4.9683	160.646	1.8507	5.7969	1.2047
BASE	165	160	CIM8 Min	-73.3701	-25.2979	15.6849	-3.7824	-8.1341	-1.1113
BASE	165	160	ENVCIM Max	28.7444	6.4684	232.5603	2.0435	5.7969	1.2691
BASE	165	160	ENVCIM Min	-88.2453	-33.5745	15.6849	-4.6191	-8.9132	-1.1445
BASE	184	169	CIM1	-1.8025	-12.9562	30.3485	2.1259	-1.713	0.0007
BASE	184	169	CIM2	-2.8287	-16.939	39.9677	2.7684	-2.6875	0.001
BASE	184	169	CIM3 Max	-1.6953	-2.5839	54.3729	4.8303	-1.4521	0.0551
BASE	184	169	CIM3 Min	-1.9097	-23.3285	6.3241	-0.5785	-1.9739	-0.0537
BASE	184	169	CIM4 Max	-1.6902	2.7052	65.552	6.0658	-1.4753	0.0482
BASE	184	169	CIM4 Min	-1.9148	-28.6175	-4.855	-1.814	-1.9506	-0.0467
BASE	184	169	CIM5 Max	-2.4915	-8.1278	55.6631	4.6453	-2.2476	0.0418
BASE	184	169	CIM5 Min	-2.6529	-23.7588	19.4627	0.5703	-2.6401	-0.04
BASE	184	169	CIM6 Max	-2.4877	-4.1691	64.0302	5.57	-2.2649	0.0366
BASE	184	169	CIM6 Min	-2.6566	-27.7175	11.0956	-0.3544	-2.6227	-0.0348
BASE	184	169	CIM7 Max	-0.9743	2.5986	42.2335	3.98	-0.7669	0.0548
BASE	184	169	CIM7 Min	-1.1887	-18.146	-5.8153	-1.4289	-1.2887	-0.0539
BASE	184	169	CIM8 Max	-0.9692	7.8876	53.4126	5.2154	-0.7901	0.0479
BASE	184	169	CIM8 Min	-1.1938	-23.435	-16.9944	-2.6644	-1.2655	-0.047
BASE	184	169	ENVCIM Max	-0.9692	7.8876	65.552	6.0658	-0.7669	0.0551
BASE	184	169	ENVCIM Min	-2.8287	-28.6175	-16.9944	-2.6644	-2.6875	-0.0539



Propietario:	SEC. EDUCACION Y SEC. CULTUR	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUENO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
Contenido:	MODULO XV - M. DE CALCULOS	Fecha:	ABRIL - 2016

ANEXO 8. DISEÑO DE ELEMENTOS NO ESTRUCTURALES



Propietario:	SEC. EDUCACION Y SEC. CULTURA	Calculó:	ING. FABIO RIVERA
Proyecto:	COLEGIO Y TEATRO EL ENSUEÑO	Revisó:	ING. JUAN C. PATIÑO
Localización:	BOGOTA - CUNDINAMARCA	Hoja:	
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DISEÑO DE ELEMENTOS NO ESTRUCTURALES (MUROS)
COLEGIO ENSUEÑO
MUROS PRIMER PISO

REF: CAPITULO A.9 NSR-10

1. Grado de Desempeño requerido: **Superior (Grupo de Uso III)**

2. Criterio de Diseño: **Elementos separados de la Estructura**

3. Fuerzas Sísmicas de Diseño:

$$F_p = \frac{a_x a_p}{R_p} g M_p \geq \frac{A_a I}{2} g M_p$$

a_x = Aceleración del Punto de Soporte (ref: A.9.4.2.1)

$$a_x = A_s + \frac{(S_a - A_s) h_x}{h_{eq}} \quad h_x \leq h_{eq}$$

$$a_x = S_a \frac{h_x}{h_{eq}} \quad h_x \geq h_{eq}$$

a_p = Amplificación Dinámica del Elemento No Estructural (ref: A.9.4.2.2 y Tabla A.9.5-1)

R_p = Capacidad de Disipación de Energía en el Rango Inelástico del Elemento (ref: A.9.4.9 y Tabla A.9.5-1)

Muros de Fachada:

Mampostería Reforzada Separada lateralmente de la Estructura, Apoyada solo Abajo

a_p = **2.5** Rp mínimo: **6**

Muros Divisorios:

Corredores

a_p = **1.0** Rp mínimo: **3**

Muros de Altura Total

a_p = **1.0** Rp mínimo: **1.5**

Muros de Altura Parcial

a_p = **2.5** Rp mínimo: **1.5**

Tipos de Anclaje:

Especiales:	Rp=	6.0
Dúctiles:	Rp=	3.0
No Dúctiles:	Rp=	1.5
Húmedos:	Rp=	0.5

4. Calculo de las Aceleraciones de Piso:

A_a =	0.15	Bogotá (Cundinamarca)	Coefficiente de aceleración Pico-efectiva
A_s =	0.478		Aceleración espectral, para un período de vibración igual a cero.
S_a =	0.478		Aceleración espectral. (referencia FHE)
I =	1.25		Coefficiente de Importancia
h_n =	10.5		Altura desde la base al piso mas alto de la edificación

h_{eq} : **7.88** Altura equivalente del sistema de un GDL, que simula la edificación. ($h_{eq} = 0.75 h_n$)



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NIVEL	hx	ax
3ER(N+5.90)	6.12	0.598
2DO(N+2.80)	3.06	0.598
1ER(N+0.00)	0.00	0.598
BASE	0.00	0.598

5. Diseño de los elementos de reforzamiento

Mampostería de perforación Vertical

Altura del Muro: 3 m

Separación Dóvelas(máx: 150 cms) 1.5 m

Use Separación de: 0.9 m

Espesor del Muro: 0.12 m

Amplificación dinámica: 1

Aceleración del elemento : 0.598 Ver Tabla de Arriba.

Rp- Relacionado con el Anclaje: 3

Masa del Muro: 583.2 kg

$$Fp = \frac{a_x a_p}{R_p} gMp \geq \frac{a_d I}{2} gMp = 116.3 \text{ kg} \quad 54.7 \text{ kg}$$

HIPOTESIS 1. MURO EN VOLADIZO

$$Mu = Fp \cdot h/2 = 174.4 \text{ kg-m}$$

HIPOTESIS 2. MURO SIMPLEMENTE APOYADO

$$Mu = Fp \cdot h/4 = 87.2 \text{ kg-m}$$

HIPOTESIS 3. MURO EMPOTRADO EN LA BASE Y APOYADO SUPERIORMENTE

$$Mu+ = 5Fp \cdot h/32 = 54.5 \text{ kg-m}$$

$$Mu- = 3Fp \cdot h/16 = 65.4 \text{ kg-m} \quad Mmax = 65.4 \text{ kg-m}$$

Diseño de las Dovelas:

Separacion entre dovelas: 120 cm

Espesor del muro: 0.14 m

Recubrimiento a la barra: 7 cm

Nota: f'm=80 kg/cm2 y Acero de 4200 kg/cm2

HIPOTESIS 1. MURO EN VOLADIZO

FLEXION

$$a = 117085.5$$

$$b = -3780.0$$

$$c = 3.0$$

$$Ro1: 0.031479$$

$$Ro2: 0.000805$$

$$Ro \text{ max: } 0.0159$$

$$\text{use: } Ro = 0.0008 < Rmax = 0.0159 \text{ OK!}$$



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Acero de Refuerzo Longitudinal en cada d6vela:

As= 0.68 cm² use: 4 Ø5mm
3 Ø1/4"
1 Ø3/8"

HIPOTESIS 2. MURO SIMPLEMENTE APOYADO

FLEXION

a= 117085.5

b= -3780.0

c= 1.5

Ro1: 0.031887

use: Ro= 0.0004 < Romax= 0.0159 OK!

Ro2: 0.000397

Ro max: 0.0159

Acero de Refuerzo Longitudinal en cada d6vela:

As= 0.33 cm² use: 2 Ø5mm
2 Ø1/4"
1 Ø3/8"

HIPOTESIS 3. MURO EMPOTRADO EN LA BASE Y APOYADO SUPERIORMENTE

FLEXION

a= 117085.5

b= -3780.0

c= 1.1

Ro1: 0.031987

use: Ro= 0.0003 < Romax= 0.0159 OK!

Ro2: 0.000297

Ro max: 0.0159

Acero de Refuerzo Longitudinal en cada d6vela:

As= 0.25 cm² use: 2 Ø5mm
1 Ø1/4"
1 Ø3/8"

CORTANTE

Fuerza Cortante resistida por el muro:

ØVc= 3384.7 kg

Fuerza Cortante Total Resistida por el muro:

ØV= 3384.7 kg

HIPOTESIS 1. MURO EN VOLADIZO

Vu max= Fp= 116.3 kg ØV= 3384.7 kg OK!

HIPOTESIS 2. MURO SIMPLEMENTE APOYADO

Vu max= Fp/2= 58.1 kg ØV= 3384.7 kg OK!

HIPOTESIS 3. MURO EMPOTRADO EN LA BASE Y APOYADO SUPERIORMENTE

Vu max= 11Fp/16= 79.9 kg ØV= 3384.7 kg OK!