INFORME DEL ESTUDIO DE VULNERABILIDAD SÍSMICA DE LA EDIFICACIÓN "SERVICIOS GENERALES"

CENTRO DE ATENCIÓN AL MENOR CARLOS LLERAS RESTREPO
LA POLA
MEDELLIN – ANTIOQUIA

MAYO 2015

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1. OBJETIVO

1.1 General

El objetivo principal del presente documento es evaluar el comportamiento de la edificación conocida como SERVICIOS GENERALES - SANTA RITA del Centro de Atención al Menor CARLOS LLERAS RESTREPO LA POLA, donde actualmente se prestan los servicios de Psicología y Bienestar Social; la edificación se encuentra ubicada en la ciudad de MEDELLIN departamento de ANTIOQUIA, y se requiere establecer el grado de Vulnerabilidad Sísmica y plantear alternativas de reforzamiento que actualicen su estructura, de acuerdo con el Reglamento Colombiano de Diseño y Construcción Sismo Resistente NSR-10.

1.2 Específicos

Por medio del estudio se pretende

- Establecer el grado de vulnerabilidad estructural de la edificación SERVICIOS GENERALES - SANTA RITA con base en el Reglamento Colombiano de Diseño y Construcción Sismo Resistente NSR-10.

- Con la información del Estudio de Suelos y Cimentaciones determinar el espectro de sitio y las características geotécnicas del terreno de cimentación de la edificación SERVICIOS GENERALES - SANTA RITA.

- Con la información del Levantamiento Arquitectónico, Estructural, ensayos de materiales y la modelación computacional, analizar el estado actual de cada una de los elementos de la edificación, para determinar las medidas de protección e intervención más adecuadas a realizar, según los agentes externos que puedan afectarlas, a fin de garantizar su adecuado comportamiento.

- Evaluar que las alternativas de solución definitivas, desde el punto de vista de su viabilidad técnica y económica para el proyecto de reforzamiento estructural, se ajusten al entorno arquitectónico, sistemas hidráulicos, sanitarios y mecánicos existentes.

2 NORMAS Y CÓDIGOS INTERNACIONALES

El informe presentado en este documento se rige por el Reglamento Colombiano de Construcción Sismo Resistente (NSR-2010), y específicamente por el Capitulo A.10 "Evaluación e Intervención de Edificaciones construidas antes de la vigencia de la presente versión del Reglamento".

3 DESCRIPCIÓN DE LA ESTRUCTURA

La estructura consta de dos niveles el primer nivel se en uso para el comedor, cocina, lavandería, despensa, coordinación terapéutica y zona de planchado, en este nivel existe una particularidad ya que debido a la topografía presente en la zona hace que una parte se encuentre a un nivel inferior con respecto a la cota rasante del terreno en la parte Nor-orinetal ya que en este costado se logra acceder solo al segundo nivel, en primer nivel también se encuentra un muro de contención. El segundo nivel se encuentra en uso para la panadería, despensas, almacenamientos planta eléctrica entro otros.

Las edificaciones en estudio están compuesta por un sistema estructural denominado "Pórticos resistente a momentos en concreto reforzado" como se especifica en la tabla A.3 del título A de la Norma sismo resistente del 2010 (NSR10), estos pórticos, conformados por vigas y columnas en su mayoría rectangulares componen el sistema de resistencia a cargas horizontales es decir, generan la resistencia ante las fuerzas sísmicas que puedan llegar a afectar la estructura en algún evento de este tipo, los muros de la edificación no hacen parte del sistema de resistencia sísmica y se componen de mampostería parcialmente reforzada.

La cimentación del edificio es una cimentación de tipo superficial y está conformada por zapatas rectangulares de dimensiones variables que sirven de apoyo para cada columna.

A continuación se muestra una imagen de la edificación.

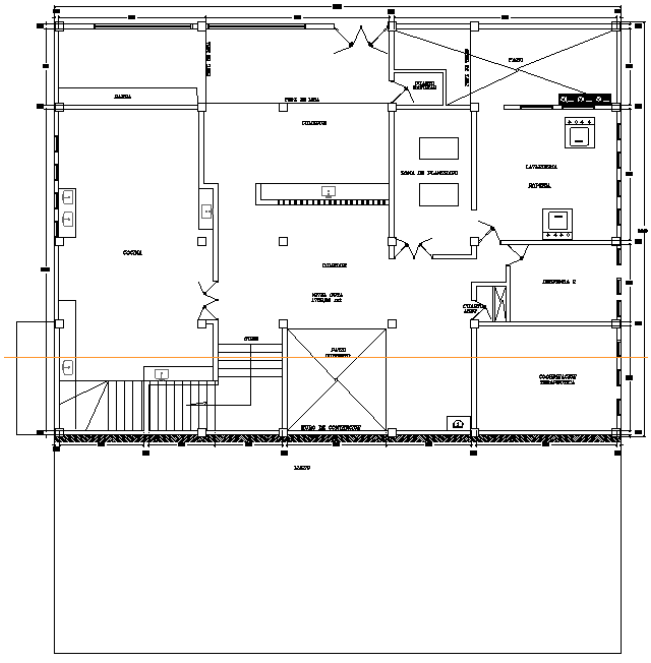


Imagen 1 Planta arquitectónica primer nivel

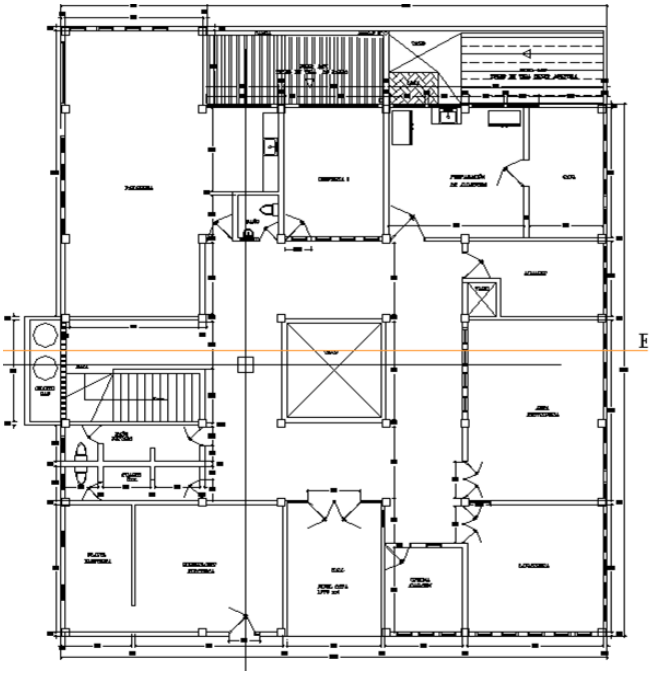


Imagen 2 Planta arquitectonica segundo nivel.

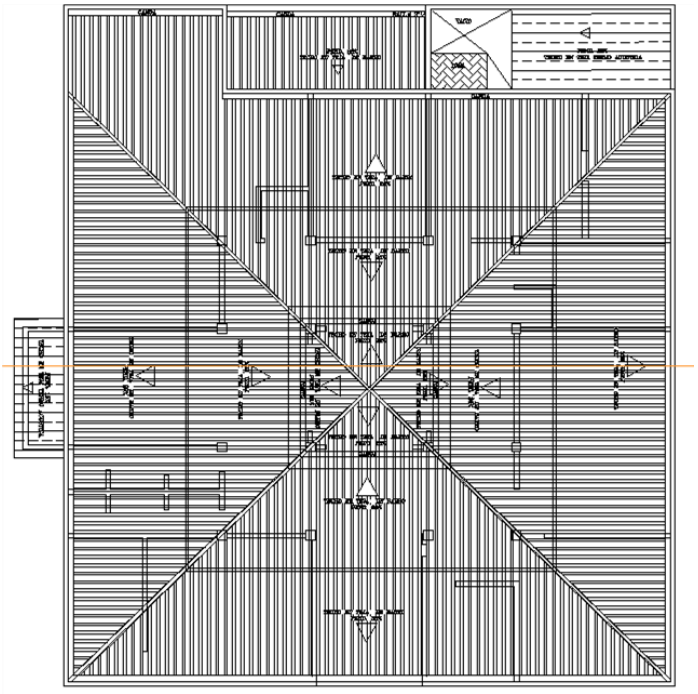


Imagen 3 Planta arquitectonica nivel de cubierta.

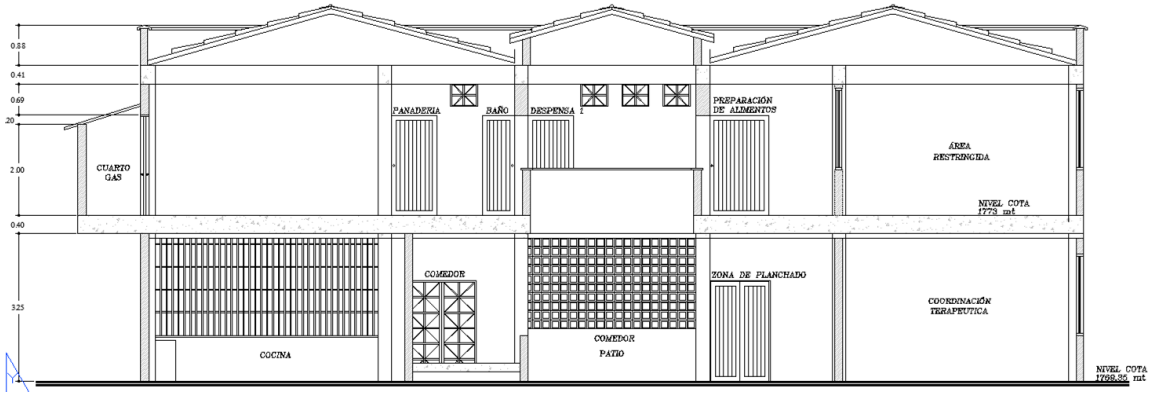


Imagen 4 Corte arquitectónico

Se realizó un recorrido a la edificación para identificación de la configuración estructural, del cual se muestran unas fotos del recorrido realizado.

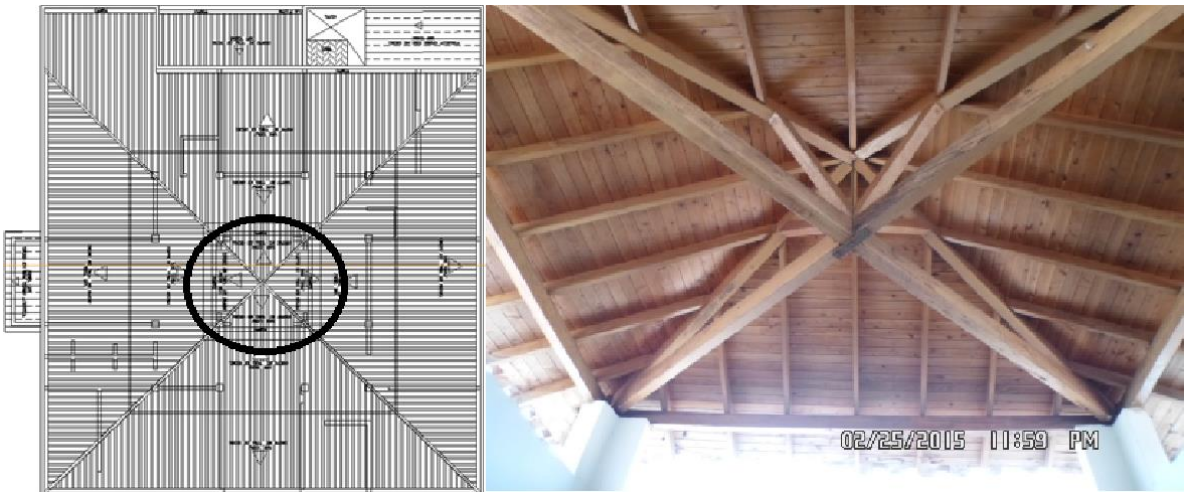


Imagen 5 Cubierta central

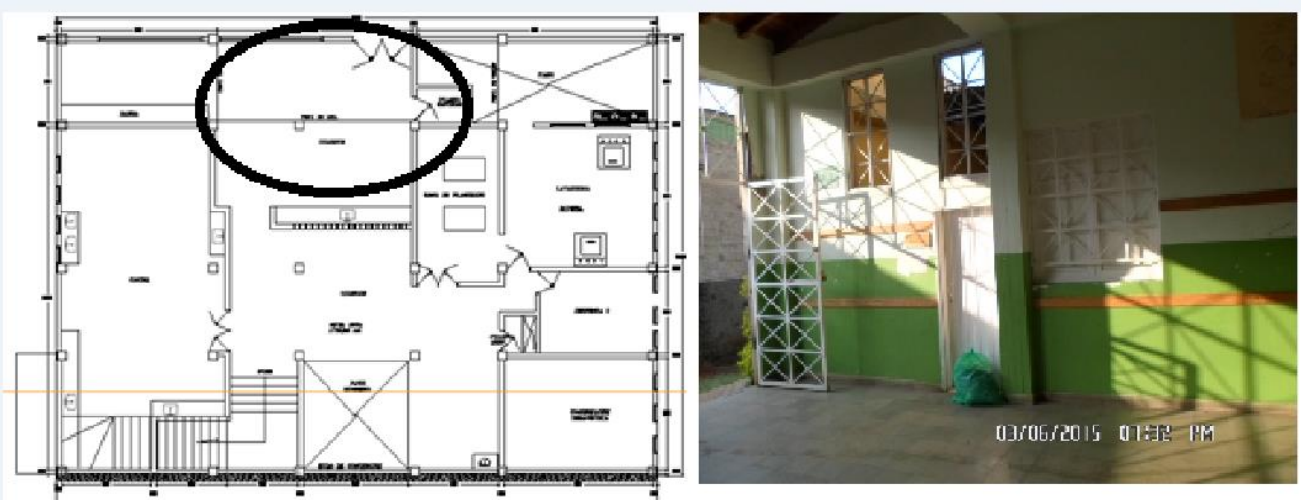


Imagen 6 entrada primer nivel

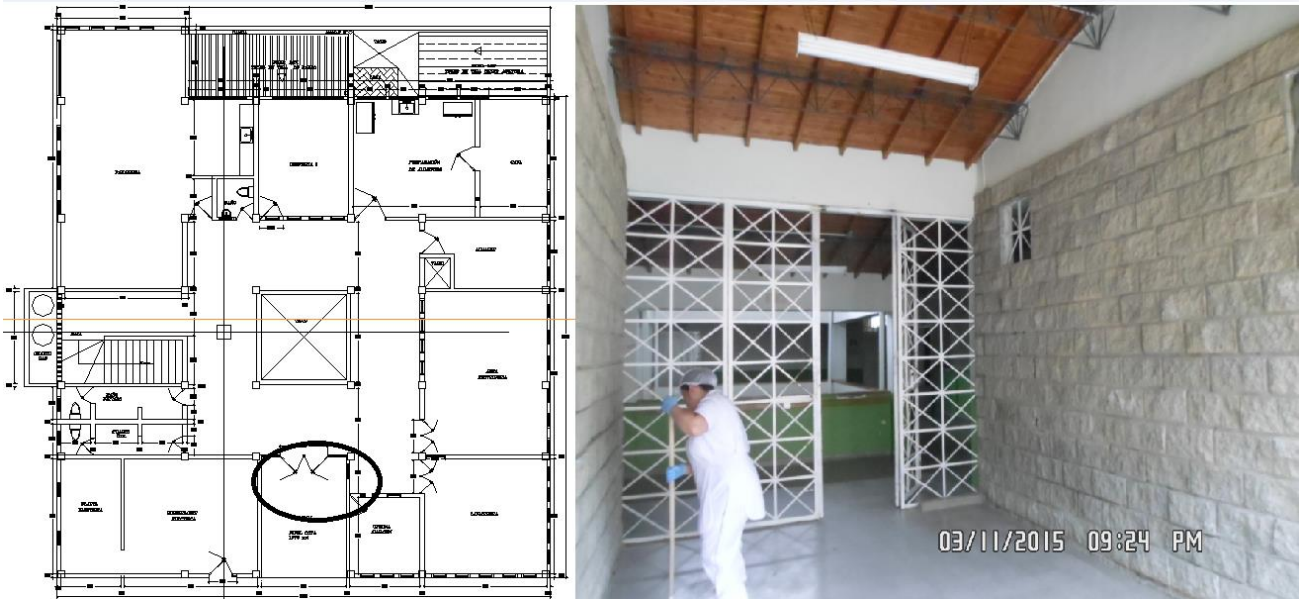


Imagen 7 Entrada principal segyndo Nivel

Imagen 8 Ingreso segundo nivel.

Imagen 9 Ingreso primer nivel

4 CONDICIONES DE SITIO

Estudio de Suelos

El estudio de mecánica de suelos realizado como parte del estudio incluyó la ejecución de doce (12) sondeos a 6 m de profundidad distribuidos en toda el área del centro de atención LA POLA, 8 sondeos en el sector de Santa Rita y 4 en la sede San Francisco, así como la auscultación de las cimentaciones. De los sondeos se extrajeron muestras alteradas e inalteradas para realizar ensayos de clasificación y de resistencia del suelo.

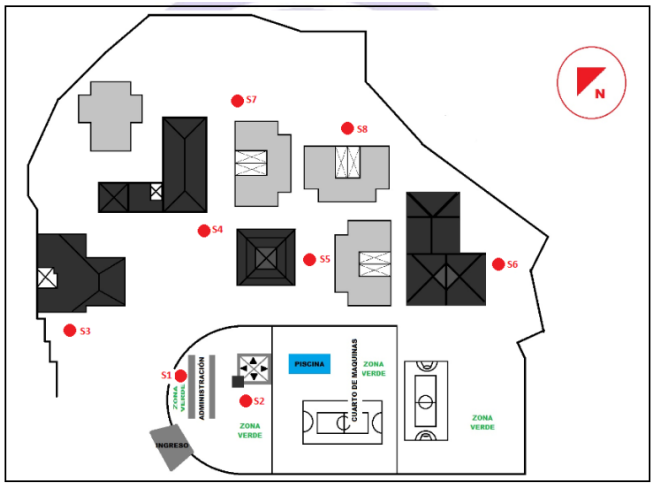


Imagen 10 Ubicación de Sondeos de Estudio de suelos, Sede Santa Rita – Tomado de Estudio de Suelos

Apiques

Para estudiar la cimentación se realizaron 12 apiques para las edificaciones presentes en el centro de atención, el objetivo de estos apiques era el de revisar la calidad de los elementos que componen el sistema de cimentación de las diferentes estructuras; No se encontraron afectaciones del sistema de cimentación ni hay evidencia de asentamientos diferenciales en las estructuras

Imagen 11 Registro fotográfico de Apiques

ENSAYOS

Para la caracterización estructural de los materiales presentes en las edificaciones se realizaron pruebas y ensayos a los elementos estructurales y no estructurales, a continuación se describen los ensayos realizados.

Núcleos de concreto

Se realizaron ensayos a núcleos de concreto tomados de los elementos estructurales de las edificaciones siguiendo las indicaciones propuestas por las NTC 3658 (Extracción de núcleos), NTC 175 (Densidad y Absorción), NTC 504 (refrendado de especímenes cilíndricos de concreto), 673 (Resistencia a la compresión en especímenes cilíndricos) con el fin de establecer su resistencia a la compresión, Estas pruebas se realizaron en CONCRE-SERVICIOS el cual es un laboratorio certificado por la ONAC (VER ANEXO – Ensayos de compresión a núcleos CONCRE-SERVICIOS)

PROBETA	ESCLEROMETRO		ENSAYO COMP.	
TOMA	MPA	Promedio	MPA	Promedio
PORTERIA				
PORTERIA	10.1	10.9		
PORTERIA	11.7			
ADMIN				
ADMIN	25.7	20.9	30.4	30.4
ADMIN	16.1			
SERVICIOS GRLS				
SERVICIOS GRLS	14.7	15.1	11.7	13.5
SERVICIOS GRLS	15.2		15.2 *	
SERVICIOS GRLS	15.3			
SANIDAD Y CASA 7				
ENFERMERIA	18.9	17.9	11.0	14.0
ENFERMERIA	19.7		16.9 *	
ENFERMERIA	18.2			
CASA 7	15.0			
TALLERES				
TALLERES	19.9	20.0	14.5	15.1
TALLERES	19.0		19.0 *	
TALLERES	21.1		11.7 *	
AUDITORIO				
AUDITORIO	21.2	20.5	12.1	12.1
AUDITORIO	19.7			
CASA 1-6				
CASA 1-2	15.3	15.7	22.4	15.9
CASA 3-4	15.4		18.6 *	
CASA 5-6	16.3		10.7	
CASA 1-2			16.2 *	
CASA 3-4			14.5	
CASA 5-6			13.1	

( ) Ensayos realizados en elementos tipo Columna

(*) Ensayos realizados en elementos tipo Viga

(") Ensayos realizados en elementos tipo Muro

Tabla 1 Resultados de Ensayos – Resistencia a la compresión del Concreto.

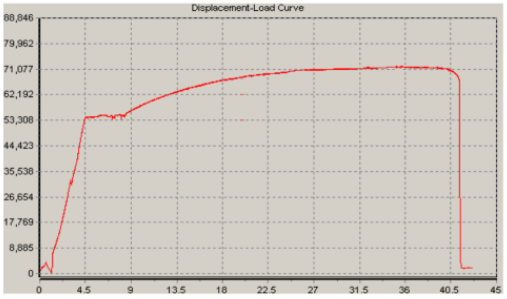
Imagen 12 Registro fotográfico de Extracción de Núcleos

Esclerómetro.

Se realizaron ensayos con el esclerómetro como método para identificar la resistencia del concreto, este ensayo es de tipo no destructivo y su procedimiento y procesamiento de cálculos se realizó en base a las indicaciones especiales del equipo.

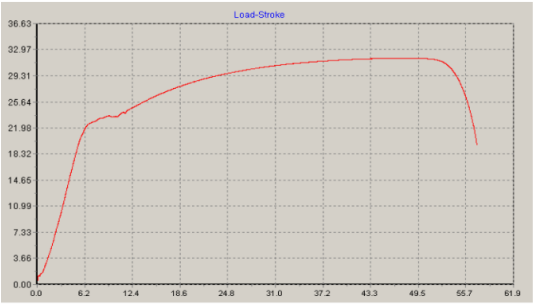
Tensión a barras de Acero

Se realizaron ensayos a barras de acero extraídas de elementos estructurales presentes en el centro de reclusión, el objetivo principal de los ensayos es conocer las propiedades mecánicas de las barras de acero como lo son su esfuerzo de fluencia, esfuerzo a tracción, etc., Estas pruebas se realizaron en CONCRE-SERVICIOS el cual es un laboratorio certificado por la ONAC (VER ANEXO – Ensayos de tensión a barras CONCRE-SERVICIOS)



Esfuerzo máximo a tracción	MPa	559	550	Min.
	psi	**81076**	80000	Min.
Esfuerzo en fluencia (método gráfico o al 0,2% offset)	MPa	420	420	Min.
			540	Máx.
	psi	**60916**	60000	Min.
			78000	Máx.
Esfuerzo en fluencia para la tracción de -	MPa	-	-	-
			-	-
	psi	-	-	-
			-	-
Relación Tracción/Fluencia	adm	**1,33**	1,25	Min.
Nota: Relación Tracción/Fluencia calculada con:	Fluencia con método gráfico			

Tabla 2 Resultados de Ensayos – ensayo de Tracción a Barra corrugada #4/8"



Esfuerzo máximo a tracción	MPa	448	550	Mín.
	psi	**64977**	80000	Mín.
Esfuerzo en fluencia (método gráfico o al 0,2% offset)	MPa	329	420	Mín.
			540	Máx.
	psi	**47718**	60000	Mín.
			78000	Máx.
Esfuerzo en fluencia para la tracción de _____ - _____	MPa	-	-	-
			-	-
	psi	-	-	-
			-	-
Relación Tracción/Fluencia	adm	**1,36**	1,25	Mín.
Nota: Relación Tracción/Fluencia calculada con:	Fluencia con método gráfico			

Tabla 3 Resultados de Ensayos – ensayo de Tracción a Barra Lisa #3/8

Pachometro y Regatas en elementos

Se realizaron regatas y pruebas con el scanner para determinar el refuerzo presente, las regatas son de tipo destructivo y su objetivo no es solo revisar las cuantías de refuerzo de los elementos sino adicionalmente poder observar el estado del mismo.

Imagen 13 Resultados de Ensayos – Regatas en elementos estructurales

5 PARAMETROS DE DISEÑO

De acuerdo a los valores estimados del Estudio de Suelos, del Reglamento Colombiano de Construcción Sismo Resistente NSR-2010 y de los ensayos realizados a los materiales encontrados, los parámetros de diseño son los siguientes:

5.1 PARÁMETROS SÍSMICOS:

De acuerdo con la Microzonificación sísmica sustitutiva de las sección A.2.4 y A.2.6 del decreto Nacional 926 de 2010 de la alcaldía de Medellín, el predio se encuentra ubicado en "Zona Homogénea 1: Zona Homogénea Noroccidental"

Zona Homogénea	Sismo de control de daños						Sismo de diseño					
	a_{Smax}	F_a	Sa_{max}/I	T_0	T_C	α	a_{Smax}	F_a	Sa_{max}/I	T_0	T_C	α
1	0.05	4.50	0.23	0.10	0.50	1.43	0.27	2.60	0.70	0.10	0.60	1.34

- Zona de Riesgo Sísmico — Intermedia
- Grupo de Uso — II
- Coeficiente de Importancia — I = 1,10

5.2 PARÁMETROS DE VIENTO:

- Velocidad de Viento — V = 120 kph

5.3 PARÁMETROS GEOTECNICOS:

- Capacidad Portante Admisible a N-1.50m — $\sigma_{adm.}$= 10.00 Ton/m^2

5.4 MATERIALES:

Concreto
Resistencia a la compresión de 16 Mpa, este valor se obtuvo luego de realizar, ensayos de laboratorio, pruebas destructivas y pruebas no destructivas.

- Peso Propio — 24 kN/m3
- Resistencia a la Compresión — f'c = 14.5 MPa
- Módulo de Elasticidad — Em = 17897.06 MPa

Acero
El valor de la resistencia a la fluencia de las barras de acero es de 420Mpa el cual se obtuvo del resultado de los ensayos realizados en el laboratorio CONCRE-SERVICIOS.

- Esfuerzo de fluencia — fy = 420 MPa
- Módulo de Elasticidad — Em = 200000 MPa

6 PATOLOGIA ESTRUCTURAL

Durante la inspección realizada no se observaron daños estructurales significativos en los muros perimetrales e interiores de la edificación. Las patologías más relevantes encontradas consisten en pequeñas fisuras, degradación en los bordes de algunos ladrillos y humedades en bloques, todas patologías menores que son de fácil reparación; en conclusión la edificación presenta un estado medio de conservación debido al uso inadecuado de algunas zonas.

7 MODELO PARA EL ANALISIS ESTRUCTURAL

Se realizó un modelo matemático con el fin de encontrar las propiedades generales de rigidez de la estructura, esto para poder afectar dicha estructura por un evento sísmico de diseño planteado por la normatividad sismo resistente colombiana, el propósito de este procedimiento es poder estimar la respuesta de la estructura frente a dicho evento y de esta manera asegurar el correcto funcionamiento de la estructura durante su vida útil.

El modelo se muestra en las figuras siguientes y fue planteado para estudiar el comportamiento estructural ante cargas gravitacionales y sísmicas de la edificación SERVICIOS GENERALES Las dimensiones fueron obtenidas de planos del levantamiento realizado con mediciones in situ.

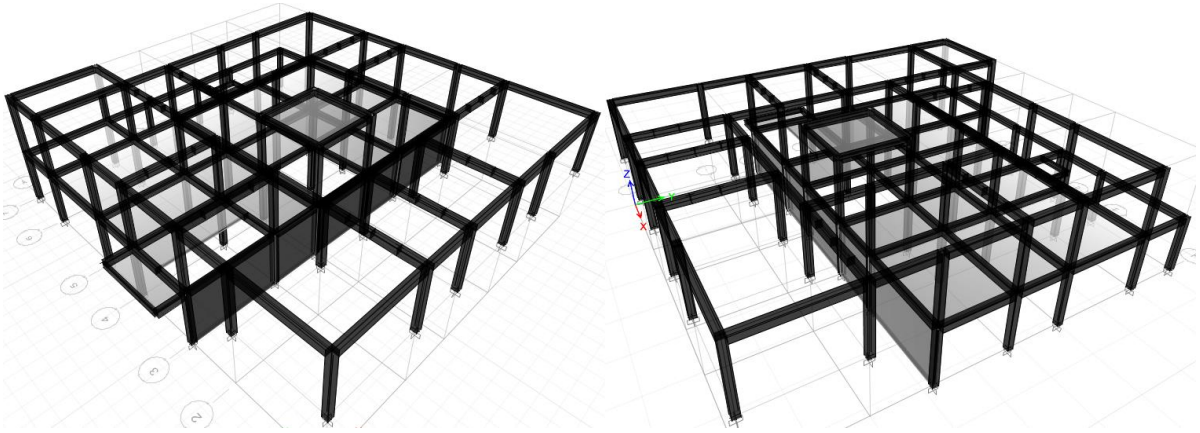


Imagen 14 Modelo Computacional Tridimensional

El modelo matemático es realizado en ETABS 2015, y en este se contempla las propiedades geométricas de las edificaciones, las acciones sobre esta (Cargas gravitacionales, cargas de viento y fuerzas sísmicas) y las propiedades físico-mecánicas de los materiales.

Imagen 15 Elementos del Modelo Computacional

Los elementos empleados en el modelo son principalmente elementos tipo frames sometidos a flexión, cortante y flexo-compresión, la distribución de cargas en la estructura se hace mediante una placa tipo Shell la cual actúa en 1 direccion, en el último nivel no se considera la rigidez dada por la cubierta de la estructura ya que debido a su composición y construcción esta no se comporta como un diafragma rígido y se asume que los apoyos y anclajes no transmiten los esfuerzos de la manera correcta a la estructura.

Las siguientes imágenes muestran las propiedades usadas en algunas de las secciones del modelo, la definición de todas las secciones se puede observar en el Anexo 1 – Reporte Etabs 2015.

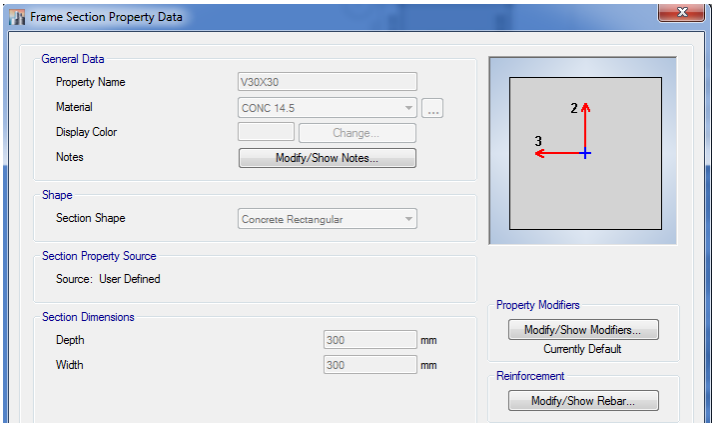


Imagen 16 Propiedades de elemnto tipo Viga

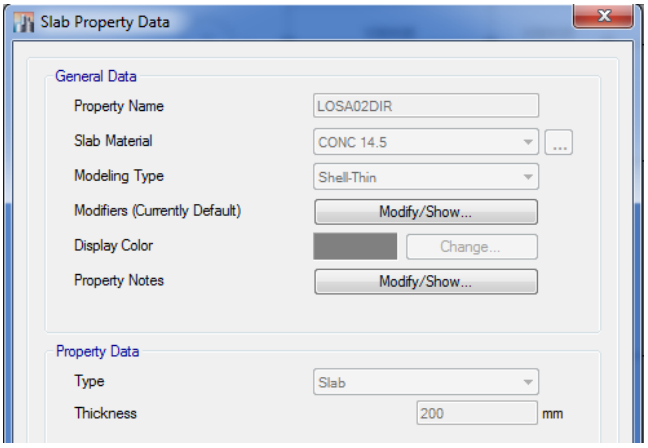


Imagen 17 Propiedades de elemnto tipo Placa

8 PARAMETROS PARA EL ANALISIS SISMICO

En lo que se refiere a las acciones sísmicas se consideró lo estipulado en el Reglamento Colombiano de Construcción Sismo Resistente (NSR-2010), el cual en el capítulo A.10 (Evaluación e intervención de edificaciones construidas antes de la vigencia de la presente versión del Reglamento) numeral A.10.9.2.3 (Intervención de edificaciones diseñadas y construidas dentro de la vigencia del Decreto 1400 de 1984) especifica "Cuando se trate de intervenciones estructurales de edificaciones diseñadas y construidas después del 1º de diciembre de 1984 y antes del 19 de febrero de 1998, estipula que:

*"**a)** En el caso de diseñarse la intervención cumpliendo los requisitos establecidos en A.10.4.2.1, con el fin de lograr un nivel de seguridad equivalente al de una edificación nueva, se permite que el índice de flexibilidad evaluado para la edificación reparada alcance, sin exceder, valores hasta de 1.5. El índice de sobreesfuerzos no puede exceder la unidad.*

(b) *Alternativamente, el diseño de la intervención se podrá hacer cumpliendo los requisitos para el nivel de seguridad limitada, establecidos en A.10.4.2.2, y tratarse de acuerdo con los criterios y requisitos del presente Reglamento, de tal manera que la edificación una vez intervenida quede con un índice de sobreesfuerzo y un índice de flexibilidad menores que la unidad. Se permitirá este nivel de seguridad limitada siempre y cuando se acepte por parte del propietario y se incluya, dentro de los documentos que se presentan para obtener las licencias y permisos correspondientes, un memorial firmado por el diseñador estructural y el propietario en el cual se declare que se utilizó el nivel de seguridad limitada. Este memorial se debe protocolizar mediante escritura pública en Notaría.*
(c) *La intervención de los elementos no estructurales puede limitarse a elementos de fachada y columnas cortas o cautivas y a aquellos que se encuentren en mal estado y representen un peligro para la vida ante la ocurrencia de un sismo en el futuro. Al respecto debe consultarse A.9.5.2."*

Por tanto, teniendo en cuenta que la edificación pertenece al grupo de uso II (Estructuras de ocupación especial), y a criterio del diseñador, se considera, según el literal a, la utilización del espectro de aceleraciones que genere una mayor afectación a la estructura comparando el espectro de diseño para un nivel de seguridad limitada como se describe en A.10.4.2.2 y el espectro de diseño definido en la microzonificación sísmica de la ciudad de Medellín según el decreto nacional 926 de 2010

A fin de estimar el nivel de aceleración sísmica esperada en la estructura, se usaron los parámetros descritos en la microzonificación sísmica.

Uso de la Edificación: Se ha supuesto que la estructura es de Grupo de Uso II debido a que esta hace parte de un centro de reclusión de menores. Según esta clasificación, a esta categoría le corresponde un Coeficiente de Importancia I = 1.10.

Coeficiente de reducción de la fuerza sísmica R: La configuración estructural básica es de pórticos de concreto reforzado resistentes a momento. Este sistema de resistencia para una capacidad de disipación de energía moderada es aceptado sin límite para la zona de amenaza sísmica intermedia, el cual según la tabla A.3.-3 del NSR-10 le corresponde un valor Ro = 5.00; de acuerdo a la tabla A.8.1 "Sistemas estructurales permitidos en zonas de riesgo sísmico intermedio" del Decreto 1400 de 1984 para el sistema de Pórticos de Concreto Reforzado el valor de R que se recomendaba era de 4.00, por tanto a criterio del especialista que realiza la evaluación se recomienda utilizar un valor de R = 4.00, considerando que bajo este decreto fue diseñada inicialmente la estructura y el valor es conservativamente menor al recomendado en la NSR-10.
.

A continuación se muestran las irregularidades presentes en la estructura las cuales modifican el coeficiente Ro:

CALCULO DEL COEFICIENTE DE DISIPACIÓN DE ENERGÍA (R)

Proyecto: 199-CDA LA POLA-Servicios Generales
Realizó: BDRV
Contiene: Irregularidades
Fecha: Mayo de 2015

SISTEMA ESTRUCTURAL

Tipo de sistema estructural: SISTEMA_C — SISTEMA DE PÓRTICOS RESISTENTE A MOMENTOS

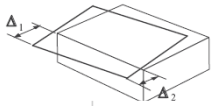
Pórtico resiste a momento de concreto (DMO)

Presenta ausencia redundancia? NO

5.0 Ro: 5.0 Ωo: 3.0

IRREGULARIDAD EN PLANTA

TIPO 1P **Irregularidad Torsional**



Tipo 1aP — Irregularidad torsional $\phi_p = 0.9$

$$1.4\left(\frac{\Delta_1+\Delta_2}{2}\right) \geq \Delta_1 > 1.2\left(\frac{\Delta_1+\Delta_2}{2}\right)$$

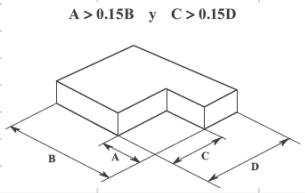
Tipo 1bP — Irregularidad torsional extrema $\phi_p = 0.8$

$$\Delta_1 > 1.4\left(\frac{\Delta_1+\Delta_2}{2}\right)$$

Δ1: 0.021 m — Verificación: TIPO 1bP

Δ2: 0.005 m — ϕp: 0.8

TIPO 2P **Retroceso en las esquinas**



A: 0.000 m

B: 0.000 m

C: 0.000 m

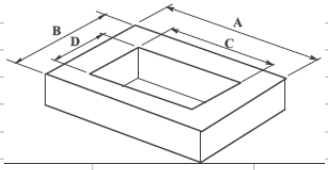
D: 0.000 m

Verificación: NO TIENE

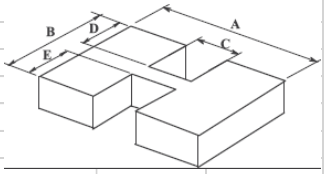
ϕp: 1.0

TIPO 3P **Irregularidad del diafragma**

1) $C \times D > 0.5A \times B$



2) $(C \times D + C \times E) > 0.5A \times B$



Caso: 1

A: 0.000 m — Verificación: NO TIENE

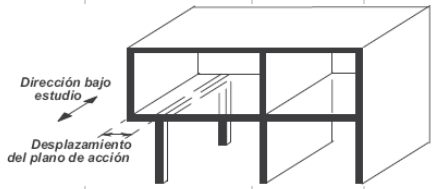
B: 0.000 m — ϕp: 1.0

C: 0.000 m

D: 0.000 m

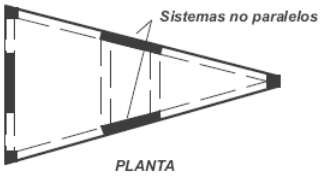
E: 0.000 m

TIPO 4P **Desplazamiento de los planos de Acción**



Verificación: NO TIENE
ϕp: 1.0

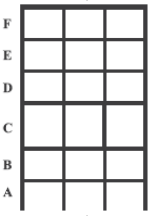
TIPO 5P **Sistemas no paralelos**



Verificación: NO TIENE
ϕp: 1.0

IRREGULARIDAD EN ALTURA

TIPO 1A **Piso flexible**



Tipo 1aA — Piso flexible

$\phi_a = 0.9$

$0.60\ \text{Rigidez}\ K_D \le \text{Rigidez}\ K_C < 0.70\ \text{Rigidez}\ K_D$

o

$0.70\ (K_D+K_E+K_F)/3 \le \text{Rigidez}\ K_C < 0.80\ (K_D+K_E+K_F)/3$

Tipo 1bA — Piso flexible extremo

$\phi_a = 0.8$

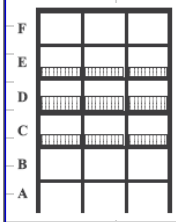
$\text{Rigidez}\ K_C < 0.60\ \text{Rigidez}\ K_D$

o

$\text{Rigidez}\ K_C < 0.70\ (K_D+K_E+K_F)/3$

Caso: NO SE PRESENTA
Verificación: NO TIENE
ϕa: 1.0

TIPO 2A **Distribución de masa**



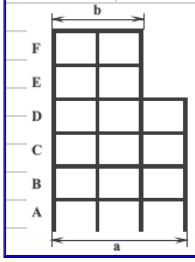
$m_D > 1.50\ m_E$

o

$m_D > 1.50\ m_C$

Caso: NO SE PRESENTA
Verificación: NO TIENE
ϕa: 1.0

TIPO 3A **Geométrica**



$a > 1.30\ b$

a: 0.000 m
b: 0.000 m
Verificación: NO TIENE
ϕa: 1.0

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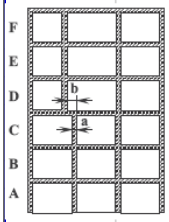
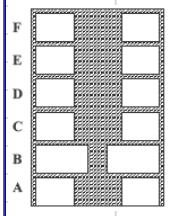
TIPO 4A	**Desplazamiento dentro del plano de acción**				
		b > a			
		Caso:	NO SE PRESENTA	Verificación:	NO TIENE
				ϕa:	1.0
TIPO 5A	**Piso débil**				
		Tipo 5aA — Piso débil $\phi_a = 0.9$			
		0.65 Resist. Piso C ≤ Resist. Piso B < 0.80 Resist. Piso C			
		Tipo 5bA — Piso débil extremo $\phi_a = 0.8$			
		Resistencia Piso B < 0.65 Resistencia Piso C			
Caso:	NO SE PRESENTA			Verificación:	NO TIENE
				ϕa:	1.0
COEFICIENTE DE DISIPACIÓN DE ENERGÍA (R)					
Ro:	5.00				
ϕp:	0.80			**R:**	**4.0**
ϕa:	1.00				
ϕr:	1.00				

Tabla 4 Irregularidades

Espectro de Aceleraciones: Para el análisis dinámico se empleó el espectro elástico de aceleraciones definido en el estudio de Microzonificación Sísmica del área urbana de Medellín de Mayo de 2011, el predio donde se encuentra la edificación en estudio se encuentra ubicado en Zona Homogénea 1: Zona Homogénea Noroccidental, donde los parámetros espectrales para la definición sísmica son los siguientes:

Zona Homogénea	Sismo de control de daños						Sismo de diseño					
	a_{Smax}	F_a	Sa_{max}/I	T_0	T_C	α	a_{Smax}	F_a	Sa_{max}/I	T_0	T_C	α
1	0.05	4.50	0.23	0.10	0.50	1.43	0.27	2.60	0.70	0.10	0.60	1.34

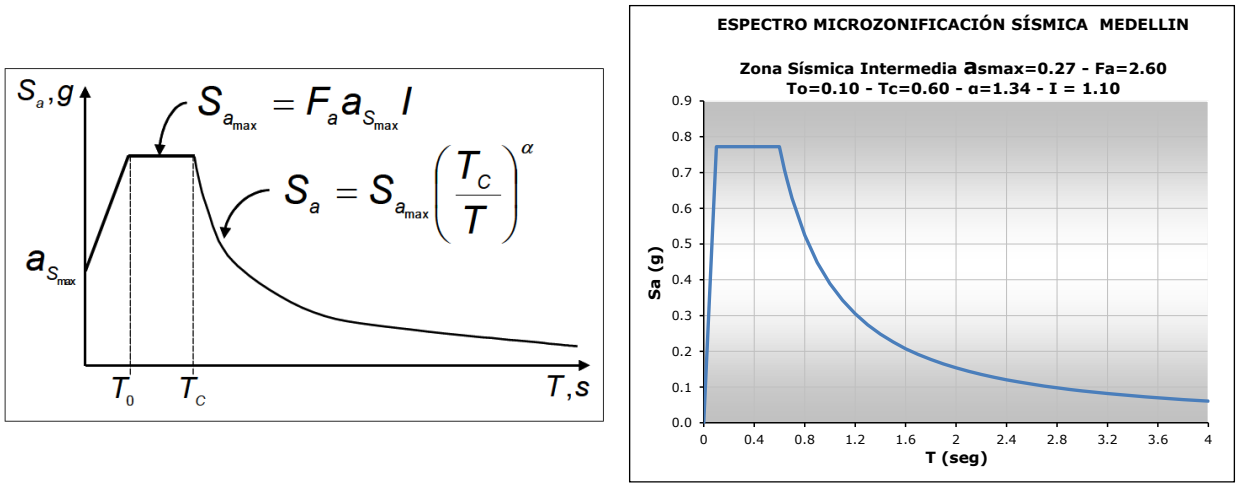


Imagen 18 Espectro de Aceleraciones según Microzonificación Sísmica de Medellín

Para el estudio de Vulnerabilidad de estas estructuras se consideró la utilización de un modelo tridimensional de análisis dinámico elástico espectral, el cual tiene en cuenta la distribución de las masas y la rigidez de las estructuras. De dicho análisis se determinan las solicitaciones sobre las estructuras a partir de la aplicación de las acciones externas combinadas de acuerdo a las combinaciones de carga definidas en el Titulo B de la NSR 10.

9 CARGAS DE VIENTO

Las cargas de viento no se tuvieron en cuenta para el análisis estructural debido a que como carga horizontal es despreciable por el peso y masividad de la estructura, además de estar protegido de vientos fuertes por edificaciones aledañas.

10 AVALUO DE CARGAS GRAVITACIONALES

Para el análisis de la edificación, se seleccionaron las cargas que aplican de acuerdo a lo indicado en el Titulo B del Reglamento Colombiano de Construcción Sismo Resistente NSR-2010.

A continuación se presenta el avaluó de cargas muertas y vivas en la cubierta liviana:

HOJA DE CALCULO PARA AVALUO DE CARGAS

Proyecto:	199-CDA LA POLA-Serv Generales
Realizó:	BDRV
Contiene:	Avaluos de carga
Fecha:	mayo de 2015

- CARGA MUERTA ENTREPISO

ITEM	Diametro		Alto (m)	Separación (m)	γ (KN/m3)	Peso (KN/m2)
Placa entrepiso	Se encuentra modelada					0.00
Cielo raso - yeso						0.25
Muros divisorios						2.00
Baldosa Ceramica						1.10
			CARGA MUERTA TOTAL:			3.350

- CARGA MUERTA CUBIERTA

ITEM	Diametro		Alto (m)	Separación (m)	γ (KN/m3)	Peso (KN/m2)
Estructura metalica						0.50
Estructura en madera						0.40
Teja de barro						0.80
Acabados						0.80
			CARGA MUERTA TOTAL:			2.500

- CARGA VIVA

Según NSR-10 Capitulo B.4.				
Educacionales (Corredores)	5.00	KN/m2	**CARGA VIVA TOTAL**	5.00
oficinas (restaurantes)	5.00	KN/m2	**CARGA VIVA TOTAL**	5.00
Almacenamiento (Liviano)	6.00	KN/m2	**CARGA VIVA TOTAL**	6.00

- CARGA VIVA CUBIERTA

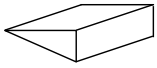
Según NSR-10 Capitulo B.4. - Tabla B.4.2.1-2 Tipo de Cubierta F				
Pend Mayor a 15	0.35	KN/m2	**CARGA VIVA TOTAL**	0.35

Tabla 5 Avaluos de carga cubierta y entreoiso

HOJA DE CALCULO PARA AVALUO DE CARGAS DE ESCALERA

Proyecto:	199-CDA LA POLA-Serv Generales
Realizó:	BDRV
Contiene:	Avalúo de la escalera
Fecha:	Marzo de 2015

- CARGA MUERTA

ITEM		Largo (m)	Ancho (m)	Alto (m)	N. escalones	γ (KN/m3)	Peso (KN)
ESCALÓN TIPO 1 	CONCRETO	1.85	0.30	0.18	20.00	24.00	**23.98**
	ACABADOS	1.85	0.28	0.18	20.00	4.57	**9.41**
LOSA DE ESCALERA**				0.15	-	24.00	**71.50**
				CARGA MUERTA TOTAL:			**104.89**

** CÁLCULO ÁREA DE LOSA DE ESCALERA					
Área planta=	18.25	m2			
Longitud planta=	9.4	m			
Longitud real=	10.23	m			
Área real Losa=	19.86	m2			
REACCIÓN=	52.44	KN	L VIGA=	1.8	m
CARGA SOBRE LA VIGA FINAL=	29.14	KN/m			

- CARGA VIVA

Según NSR-10 Capitulo B.4.					
carga viva ESCALERAS	5.0	KN/m2			
			CARGA VIVA TOTAL		**5.00**
REACCIÓN=	49.65359	KN	L VIGA=	1.8	m
CARGA SOBRE LA VIGA FINAL=	27.6	KN/m			

Tabla 6 Avaluos de carga para escaleras

El peso de los elementos es tomado directamente por el programa ETABS 2015, colocando el valor de 1, en la opción de self weigth multiplier, de la ventana Load Patterns.

No se considera carga de granizo debido a que la ciudad de Medellín se encuentra a menos de 2000 metros de altura sobre el nivel del mar, de acuerdo a lo estipulado en B.4.8.3 del NSR-10.

11 COMBINACIONES DE CARGA

Se utilizan las combinaciones de carga descritas en B.2.3 para el cálculo de los índices de sobreesfuerzo para la cimentación y las combinaciones B.2.4 para los elementos estructurales según la NSR-10.

En la tabla siguiente se presenta la descripción de cada caso de carga utilizado para el análisis y diseño de la Edificación:

CASOS DE CARGA		
ID	**TIPO**	**DESCRIPCIÓN**
DEAD	ESTÁTICO	Cargas muertas sin tener en cuenta el peso propio de los elementos estructurales ni los muros divisorios.
LIVE	ESTÁTICO	Cargas vivas
LR	ESTÁTICO	Cargas vivas de cubierta
SXDIS	ESPECTRO	Espectro de aceleraciones en dirección X con Coeficiente de Importancia = 1.10 (esfuerzos)
SXDER	ESPECTRO	Espectro de aceleraciones en dirección X con Coeficiente de Importancia = 1.0 (derivas)
SYDIS	ESPECTRO	Espectro de aceleraciones en dirección Y con Coeficiente de Importancia = 1.10 (esfuerzos)
SYDER	ESPECTRO	Espectro de aceleraciones en dirección Y con Coeficiente de Importancia = 1.0 (derivas)

Tabla 7 Casos de Carga

Las combinaciones carga se combinan por medio de una adición lineal según la NSR-10 Titulo B, como se muestra en la tabla a continuación:

R=	4		1/R	0.25				
Omega=	3		OMEGA	0.75				
	COMB	**D**	**L**	**Lr**	**H**	**W**	**SX**	**SY**
VIGAS	**B241V**	1.40						
	B242V	1.20	1.60	0.50	1.60	1.60		
	B243V	1.20	1.00	1.60				
	B244V	1.20	1.00	0.50				
	B245VX	1.20	1.00				0.25	
	B245VY	1.20	1.00					0.25
	B246V	0.90			1.60	1.60		
	B247VX	0.90			1.60	1.60	0.25	
	B247VY	0.90			1.60	1.60		0.25
	B245VCORTX	1.20	1.00				0.50	
	B245VCORTY	1.20	1.00					0.50
	B247VCORTX	0.90			1.60	1.60	0.50	
	B247VCORTY	0.90			1.60	1.60		0.50
COLUMNAS	**B241C**	1.40						
	B242C	1.20	1.60	0.50	1.60	1.60		
	B243C	1.20	1.00	1.60				
	B244C	1.20	1.00	0.50				
	B245CX	1.20	1.00				0.25	0.08
	B245CY	1.20	1.00				0.08	0.25
	B246C	0.90			1.60	1.60		
	B247CX	0.90			1.60	1.60	0.25	0.08
	B247CY	0.90			1.60	1.60	0.08	0.25
	B245CCORTX	1.20	1.00				0.75	0.23
	B245CCORTY	1.20	1.00				0.23	0.75
	B247CCORTX	0.90			1.60	1.60	0.75	0.23
	B247CCORTY	0.90			1.60	1.60	0.23	0.75
CIMENTACION	**B231**	1						
	B232	1	1					
	B233	1		1				
	B234	1	0.75	0.75				
	B235	1			1.00	1.00		
	B236X	1					0.18	
	B236Y	1						0.18
	B237	1	0.75	0.75	0.75	0.75		
	B238X	1	0.75	0.75			0.13	
	B238Y	1	0.75	0.75				0.13
	B239	0.6			1.00	1.00		
	B2310X	0.6					0.18	
	B2310Y	0.6						0.18

Tabla 8 Combinaciones de Carga

12 MODOS DE VIBRACIÓN DEL MODELO

A continuación se presenta la revisión de modos de vibración para dar cumplimiento a lo especificado en A.5.4.2 "Número de modos de vibración" del NSR-10.

APORTE DE MASA MODAL DE CADA MODO AL ANÁLISIS DINÁMICO.

Proyecto: 199-CDA LA POLA- Serv Generales
Realizó: BDRV
Contiene: APORTE MASA
Fecha: Mayo de 2015

Case	Mode	Period	UX	UY	UZ	Sum UX	Sum UY	Sum UZ	RX	RY	RZ
		sec									
Modal	1	40657456	0	0	0	0	0	0	0	0	0.0099
Modal	2	13.037	0.01	0.0102	0	0.01	0.0102	0	0.0158	0.0153	0.0013
Modal	3	13.026	0.0102	0.01	0	0.0202	0.0202	0	0.0153	0.0157	0.0006
Modal	4	10.174	0.0118	0.0019	0	0.032	0.0221	0	0.0029	0.0182	0.0139
Modal	5	8.942	0.0024	0.004	0	0.0344	0.0261	0	0.0061	0.0037	0.0087
Modal	6	8.504	0	0	0	0.0344	0.0261	0	0	0	0
Modal	7	8.323	0.0091	0.0001	0	0.0436	0.0261	0	0.0001	0.014	0.0029
Modal	8	8.093	0.0014	0.0061	0	0.0449	0.0322	0	0.0093	0.0021	0.0146
Modal	9	7.942	0.0034	0.0021	0	0.0483	0.0343	0	0.0033	0.0052	0.0152
Modal	10	6.762	0.0008	0.0041	0	0.0491	0.0384	0	0.0062	0.0012	0.0043
Modal	11	6.618	0.0035	0.0009	0	0.0526	0.0393	0	0.0014	0.0054	0.009
Modal	12	6.172	0.0001	0.0062	0	0.0527	0.0455	0	0.0095	0.0002	0.0056
Modal	13	6.159	0.0064	0.0007	0	0.0592	0.0462	0	0.0011	0.0099	0.0001
Modal	14	6.037	0.0006	0.0009	0	0.0597	0.0471	0	0.0013	0.0008	0.00004474
Modal	15	5.512	0	0.0159	0	0.0597	0.063	0	0.0242	0	0.0013
Modal	16	5.16	0.0006	0.0012	0	0.0603	0.0642	0	0.0018	0.0009	0.0003
Modal	17	4.789	0.0116	0	0	0.0719	0.0642	0	0	0.0178	0.0032
Modal	18	4.753	0.0029	0.0054	0	0.0748	0.0696	0	0.0083	0.0045	0.0005
Modal	19	4.683	0	0	0	0.0748	0.0696	0	0	0	0
Modal	20	4.401	0.0051	0.0041	0	0.0799	0.0737	0	0.0062	0.0078	0.0001
Modal	21	4.397	0.0012	0.0059	0	0.0811	0.0795	0	0.009	0.0018	0.0001
Modal	22	4.344	0.0004	0.006	0	0.0815	0.0856	0	0.0092	0.0006	0.0036
Modal	23	4.324	0.0053	0.0059	0	0.0867	0.0915	0	0.0089	0.0081	0.0003
Modal	24	4.32	0.006	0.0052	0	0.0927	0.0967	0	0.0078	0.0092	0.0008
Modal	25	4.267	0.0089	0	0	0.1016	0.0967	0	0	0.0137	0.0068
Modal	26	4.207	0	0.0107	0	0.1016	0.1074	0	0.0163	0	0.0092
Modal	27	4.189	0	0	0	0.1016	0.1074	0	0	0	0.0002
Modal	28	4.158	0	0.0009	0	0.1016	0.1083	0	0.0014	0	0.0008
Modal	29	4.108	0.0065	0.0001	0	0.1082	0.1084	0	0.0001	0.0099	0.0009
Modal	30	4.101	6.548E-07	6.227E-07	0	0.1082	0.1084	0	9.5E-07	1E-06	0
Modal	31	4.022	0.0016	0.0002	0	0.1098	0.1086	0	0.0003	0.0025	0.0007
Modal	32	3.619	0.00002508	0.0038	0	0.1098	0.1124	0	0.0057	4.3E-05	0.003
Modal	33	3.462	0.00004803	0.0016	0	0.1098	0.114	0	0.0024	0.0001	0.0008
Modal	34	3.406	0.0031	0.00004996	0	0.1129	0.114	0	0.0001	0.0047	0.0032
Modal	35	2.976	0	0	0	0.1129	0.114	0	0	0	0
Modal	36	2.931	0.0002	0.0001	0	0.1131	0.1141	0	0.0001	0.0003	0.0005
Modal	37	2.837	0.0004	6.332E-07	0	0.1135	0.1141	0	1E-06	0.0006	0.0001
Modal	38	2.775	0.0000122	0.0004	0	0.1135	0.1145	0	0.0006	1.7E-05	0.0003
Modal	39	2.659	0.0000183	0.0001	0	0.1135	0.1146	0	0.0002	2.9E-05	0.0002
Modal	40	2.591	0	0	0	0.1135	0.1146	0	0	0	0
Modal	41	2.297	0	0	0	0.1135	0.1146	0	0	0	0
Modal	42	2.252	0	0.0005	0	0.1135	0.1151	0	0.0007	0	0.00003933
Modal	43	2.169	0.0003	4.062E-06	0	0.1138	0.1151	0	5.9E-06	0.0005	0.0004
Modal	44	2.054	0.0007	0.0002	0	0.1145	0.1153	0	0.0003	0.001	0.000003664
Modal	45	1.983	0.0004	0	0	0.1149	0.1153	0	0	0.0005	0.0001
Modal	46	1.859	0.0001	0.0009	0	0.115	0.1162	0	0.0013	0.0002	0.0001
Modal	47	1.858	0.0002	0.0004	0	0.1151	0.1166	0	0.0006	0.0002	0.0002
Modal	48	1.831	0.0004	0.0001	0	0.1155	0.1167	0	0.0001	0.0006	0.0002
Modal	49	1.702	0.0003	0	0	0.1158	0.1167	0	0	0.0004	0.0002
Modal	50	1.323	0.0002	0.00003245	0	0.116	0.1168	0	4.3E-05	0.0003	0.0001
Modal	51	0.445	0.2371	0.1797	0	0.3531	0.2965	0	0.0173	0.0136	0.3592
Modal	52	0.418	0.0797	0.5784	0	0.4328	0.8749	0	0.0627	0.0087	0.078

Modal	53	0.344	0.1337	0.0007	0	0.5665	0.8756	0	0.0006	0.3009	0.2286
Modal	54	0.319	0.0002	0.0053	0	0.5667	0.8808	0	0.0003	0.0011	0.0029
Modal	55	0.311	0.0096	0.0006	0	0.5763	0.8814	0	0.0579	0.0121	0.0156
Modal	56	0.309	0.0205	0.0011	0	0.5968	0.8826	0	0.0063	0.018	0.0271
Modal	57	0.301	0.0101	7.222E-07	0	0.6068	0.8826	0	1.2E-06	0.0109	0.0019
Modal	58	0.295	0.0011	0.002	0	0.608	0.8846	0	0.0326	0.0001	0.0001
Modal	59	0.28	0.0084	0.0007	0	0.6163	0.8852	0	0.004	0.0001	0.0003
Modal	60	0.271	0.0003	0.0057	0	0.6166	0.8909	0	0.0015	0.0073	0.0039
Modal	61	0.259	0.0176	0.0013	0	0.6341	0.8923	0	0.0138	0.0428	0.0136
Modal	62	0.246	0.0011	0.0025	0	0.6353	0.8947	0	0.021	2.2E-06	0.0001
Modal	63	0.242	0.0009	0.0787	0	0.6362	0.9734	0	0.4013	5.1E-07	0.0004
Modal	64	0.238	0.000002623	0	0	0.6362	0.9734	0	9.6E-07	0.0011	0.0004
Modal	65	0.23	0.003	0.0032	0	0.6391	0.9765	0	0.0132	0.0062	0.0056
Modal	66	0.224	0.0081	0.0088	0	0.6472	0.9854	0	0.0539	0.0518	0.0138
Modal	67	0.22	0.0255	0.00001236	0	0.6727	0.9854	0	0.0028	0.1088	0.0231
Modal	68	0.216	0.0018	0.00002093	0	0.6746	0.9854	0	0.0007	0.0047	0.0013
Modal	69	0.209	0.0012	0.0014	0	0.6757	0.9868	0	0.0018	0.0049	0.0001
Modal	70	0.203	0.0014	5.195E-06	0	0.6772	0.9868	0	0.0005	0.0011	0.0004
Modal	71	0.203	0.000006778	0	0	0.6772	0.9868	0	0	5.8E-06	0.000001784
Modal	72	0.2	0.0007	0.00002019	0	0.6779	0.9868	0	0.0005	0.0006	0.000002947
Modal	73	0.198	0.000005395	1.153E-06	0	0.6779	0.9868	0	1.1E-05	0	0
Modal	74	0.197	0.0017	2.254E-06	0	0.6796	0.9868	0	0.0001	0.0134	0.0023
Modal	75	0.196	0.0001	0.009	0	0.6797	0.9958	0	0.0787	0.0003	0.0001
Modal	76	0.193	0.00004127	1.251E-06	0	0.6797	0.9958	0	1.4E-05	0.0007	0.0002
Modal	77	0.189	0.00003709	0.00001195	0	0.6797	0.9958	0	0.0001	0.0026	0.0016
Modal	78	0.188	0	0	0	0.6797	0.9958	0	0	0	0
Modal	79	0.184	0.00001229	0.00001774	0	0.6798	0.9958	0	4.2E-05	0.0001	0.000002473
Modal	80	0.183	0.0015	6.674E-06	0	0.6812	0.9958	0	4E-06	0.0029	0.0002
Modal	81	0.18	0.0011	0.0001	0	0.6823	0.9959	0	0.0004	0.0017	0.00002971
Modal	82	0.177	0.00004861	0	0	0.6823	0.9959	0	0	0.0001	0.000003435
Modal	83	0.176	0.0024	0.00000654	0	0.6848	0.9959	0	0.0001	0.0056	0.0011
Modal	84	0.176	0.000009727	0.0034	0	0.6848	0.9993	0	0.0384	0.0001	0.00002604
Modal	85	0.175	9.686E-07	4.341E-06	0	0.6848	0.9993	0	3.1E-06	5E-06	0
Modal	86	0.173	0.0001	9.691E-06	0	0.6849	0.9993	0	0.0001	0.0002	0.00004529
Modal	87	0.173	0.000001942	0.0001	0	0.6849	0.9995	0	0.0017	3.3E-05	0.000006807
Modal	88	0.171	0.000005081	0.0003	0	0.6849	0.9998	0	0.0016	0.0001	0
Modal	89	0.169	0	0	0	0.6849	0.9998	0	0	0	0
Modal	90	0.166	0.000006467	1.022E-06	0	0.6849	0.9998	0	0.0007	5.9E-06	0.0001
Modal	91	0.166	0	0	0	0.6849	0.9998	0	0	0	0
Modal	92	0.165	0.000002574	2.473E-06	0	0.6849	0.9998	0	3.2E-06	2.9E-06	0.000004437
Modal	93	0.161	0	0	0	0.6849	0.9998	0	6.9E-06	0	0
Modal	94	0.159	0.000005052	0.0001	0	0.6849	0.9998	0	0.0009	5.7E-07	0
Modal	95	0.159	0.0001	1.573E-06	0	0.685	0.9998	0	2E-05	0.0002	0.00003301
Modal	96	0.159	0	0	0	0.685	0.9998	0	0	0	0
Modal	97	0.154	0.00001548	0	0	0.685	0.9998	0	4.9E-05	3.5E-05	0
Modal	98	0.154	0	0	0	0.685	0.9998	0	0	0	0
Modal	99	0.151	0.000009916	8.392E-06	0	0.685	0.9999	0	2.6E-05	0.0007	0.0002
Modal	100	0.149	0.00002199	0	0	0.685	0.9999	0	0	1.2E-05	0
Modal	101	0.149	0.00003409	0.00002174	0	0.6851	0.9999	0	4.3E-05	3.4E-05	0.00002252
Modal	102	0.143	0.000001968	5.795E-06	0	0.6851	0.9999	0	2.5E-06	0.0001	0.000008732
Modal	103	0.141	0	0	0	0.6851	0.9999	0	0	5.1E-06	0
Modal	104	0.139	0	0	0	0.6851	0.9999	0	0	0	0
Modal	105	0.135	0.0001	6.968E-07	0	0.6851	0.9999	0	0.0014	0.0001	0.00001066
Modal	106	0.134	0.000001269	0	0	0.6851	0.9999	0	2.7E-05	0	7.927E-07

Modal	107	0.133	0	0	0	0.6851	0.9999	0	1.9E-06	0	0
Modal	108	0.13	0.0001	2.412E-06	0	0.6852	0.9999	0	0.0001	0.0001	0.0001
Modal	109	0.129	0.0001	5.716E-06	0	0.6853	0.9999	0	5E-05	0.0001	0.0001
Modal	110	0.128	0.000001018	0.00000878	0	0.6853	0.9999	0	3.2E-05	7.1E-07	0.000005116
Modal	111	0.126	7.644E-07	0.00001195	0	0.6853	0.9999	0	0.0003	0	0
Modal	112	0.126	0.00004048	0	0	0.6853	0.9999	0	0	0.0001	0.00001512
Modal	113	0.12	0.000003481	2.378E-06	0	0.6853	0.9999	0	0.0001	9.8E-06	0.000004209
Modal	114	0.118	0.0001	0	0	0.6854	0.9999	0	2.8E-05	0.0001	0.0001
Modal	115	0.111	0.0001	1.364E-06	0	0.6855	0.9999	0	2.6E-06	0.0001	0.00003443
Modal	116	0.109	0.0004	0	0	0.6859	0.9999	0	0.0013	0.0003	0.0001
Modal	117	0.109	0.0001	0	0	0.686	0.9999	0	0	0.0001	0.00002921
Modal	118	0.107	0.000003024	2.801E-06	0	0.686	0.9999	0	0.0017	1.2E-05	0.000005884
Modal	119	0.106	0.0007	0.00002234	0	0.6867	0.9999	0	0.0001	0.0005	0.0004
Modal	120	0.1	0.000004348	8.449E-07	0	0.6867	0.9999	0	3.8E-05	2.6E-06	7.173E-07
Modal	121	0.099	0.00001333	0	0	0.6867	0.9999	0	9.5E-06	4.5E-06	0.00001118
Modal	122	0.089	0.0002	0	0	0.6869	0.9999	0	2.6E-05	0.0008	0.0002
Modal	123	0.087	0.0002	0	0	0.6871	0.9999	0	0	0.0002	0.0003
Modal	124	0.086	5.278E-07	0.00004087	0	0.6871	1	0	2.5E-06	8.6E-07	0
Modal	125	0.078	0.0007	2.278E-06	0	0.6878	1	0	0.0009	0.0003	0.0003
Modal	126	0.067	0.2376	1.381E-06	0	0.9253	1	0	0	0.1513	0.0706
Modal	127	0.052	0.000003318	0	0	0.9253	1	0	1.3E-06	3E-06	6.656E-07
Modal	128	0.05	0	1.602E-06	0	0.9253	1	0	1.1E-06	0	0
Modal	129	0.049	0	2.322E-06	0	0.9253	1	0	0	0	0.000001711
Modal	130	0.046	0.0024	0	0	0.9277	1	0	5.5E-07	0.0015	0.0003

Tabla 9 Participación de Masa y modos de vibracion

En la tabla anterior se puede observar que la participación total de masa en sentido X es del 93%, y la mayor participación en sentido Y es del 100%, cumpliendo lo especificado en A.5.4.2 "Número de modos de vibración" del NSR-10 "Deben incluirse en el análisis dinámico todos los modos de vibración que contribuyan de una manera significativa a la respuesta dinámica de la estructura. Se considera que se ha cumplido este requisito cuando se demuestre que, con el número de modos empleados, se ha incluido en el cálculo de la respuesta, para cada una de las direcciones horizontales de análisis por lo menos el 90% de la masa participante de la estructura".

De igual manera se verifica en el modelo de análisis que el cortante basal en ambas direcciones corresponda al definido por el espectro de diseño presentado en el numeral 8.

Load Case/Combo	FX	FY	FZ	MX	MY	MZ
	kN	kN	kN	kN-m	kN-m	kN-m
DEAD	0	0	5794.4079	74083.2542	-56115.9674	0
SXDER Max	1919.2639	725.4918	1.948E-06	3807.0092	9957.2712	33049.5916
SYDER Max	725.4921	3370.455	1.948E-06	17467.1688	3760.6846	38575.1023
SXDISE Max	2382.5915	906.8645	2.436E-06	4758.7596	12413.184	41252.7584
SYDISE Max	906.8649	4213.0688	2.436E-06	21833.9616	4700.8554	48218.8798

Tabla 10 Chequeo cortante Basal

De acuerdo a lo estipulado en la NSR – 10 en el capítulo A.5.4.5, el valor del cortante dinámico total en la base obtenido después de realizar la combinación modal, no puede ser menor que el 90% (estructuras irregulares) o del 80% (estructuras regulares) del valor del cortante

sísmico en la base, **Vs**, calculado de acuerdo con los requisitos del Capítulo A.4 (Fuerza horizontal equivalente) utilizando el período de vibración aproximado **Ta** dado en A.4.2.2.

A continuación se presenta el cálculo del factor de ajuste con el cual debe ajustarse proporcionalmente todos los parámetros de la respuesta dinámica, tales como deflexiones, derivas, fuerzas en los pisos, cortantes de piso, cortante en la base y fuerzas en los elementos.

AJUSTE DE LOS RESULTADOS SEGÚN LA NSR-10

Proyecto:	PY 199 LA POLA-Serv Generales
Realizó:	BDRV
Contiene:	FACTOR DE AJUSTE
Fecha:	Mayo de 2015

**** Para los casos espectrales utilizados para diseño de elementos***

Este no es amplificado por el factor de importancia (I)

- FUERZA HORIZONTAL EQUIVALENTE

- Peso de la estructura	**W:**	5794.41 KN
-Altura de la edificación:	**h_n:**	3.80 m
-Coef para calcular el periodo:	**C_t:**	0.047
	α:	0.9
- Periodo aproximado:	**Ta:**	0.1563 s
-Máxima aceleración de diseño:	**Sa:**	0.8775

-FHE: **5084.59 KN**

- Caso del espectro de respuesta:	***en x :***	**SXDISE Max**	***en y :***	**SYDISE Max**
- Cortante basal dinámico:	**Vx:**	2382.59 KN	**Vy:**	4213.07 KN
- Regularidad:		REGULAR		REGULAR
- % de la FHE que debe cumplir:		80.00%		80.00%
- FHE (%):		46.9%		82.9%
- Factor:		1707.248		1000.000
- Factor de amplificiación espectro:	**en x:**	**16748.10**	**en y:**	**9810.00**

**** Para los casos espectrales utilizados para calcular derivas***

- FUERZA HORIZONTAL EQUIVALENTE

- Peso de la estructura	**W:**	5794.41 KN
-Altura de la edificación:	**h_n:**	3.80 m
-Coef para calcular el periodo:	**C_t:**	0.047
	α:	0.9
- Periodo aproximado:	**Ta:**	0.1563 s
-Máxima aceleración de diseño:	**Sa:**	0.702

-FHE: **4067.67 KN**

- Caso del espectro de respuesta:	***en x :***	**SXDER Max**	***en y :***	**SYDER Max**
- Cortante basal dinámico:	**Vx:**	1919.26 KN	**Vy:**	3370.46 KN
- Regularidad:		REGULAR		REGULAR
- % de la FHE que debe cumplir:		80.00%		80.00%
- FHE (%):		47.2%		82.9%
- Factor:		1695.514		1000.000
- Factor de amplificiación espectro:	**en x:**	**16633.00**	**en y:**	**9810.00**

Tabla 11 Factor de Amplificacion de Espectro

CONSULTOR CONSORCIO CDA LA POLA

13 DESPLAZAMIENTOS LATERALES DEBIDO A ACCIONES DE SISMO

Según la NSR – 10 *"Se entiende por deriva el desplazamiento horizontal relativo entre dos puntos colocados en la misma línea vertical, en dos pisos o niveles consecutivos de la edificación."*

Además en el capítulo A.6.4.1 se especifica el límite máximo de deriva que puede tener la edificación en cualquier punto de la estructura. Dada la tabla A.6.4-1 de la NSR – 10 que se muestra a continuación, el límite máximo de la deriva para un sistema estructural de concreto reforzado del 1.0% de la altura del piso i medida desde la superficie del diafragma del piso **i** hasta la superficie del diafragma del piso inmediatamente inferior, **i-1**

Estructuras de:	Deriva máxima
concreto reforzado, metálicas, de madera, y de mampostería que cumplen los requisitos de A.6.4.2.2	$1.0\%\ \left(\Delta^i_{max} \le 0.010\, h_{pi}\right)$
de mampostería que cumplen los requisitos de A.6.4.2.3	$0.5\%\ \left(\Delta^i_{max} \le 0.005\, h_{pi}\right)$

Tabla 12 Deriva máxima permitida por la NSR-10

En el capítulo A.6.2.1.2 especifica que *"En las edificaciones pertenecientes a los grupos de uso **II**, **III** y **IV**, para la determinación de las fuerzas horizontales que se empleen para calcular los desplazamientos horizontales y torsionales en el centro de masa, se permite que el coeficiente de importancia **I**, tenga un valor igual a la unidad (**I = 1.0**)".*

Dado lo anterior se utilizó el espectro de aceleraciones con un coeficiente de importancia de I = 1.0 para hallar los desplazamientos horizontales y posteriormente para calcular las derivas de piso para cada uno de los puntos de las estructuras. Una vez calculadas las derivas se calculó el índice de flexibilidad de cada uno de los puntos comparando el valor obtenido con el valor máximo de 1.0%hpi.

En cuanto al cálculo de los índices de flexibilidad se consideró lo estipulado en el Reglamento Colombiano de Construcción Sismo Resistente (NSR-2010), el cual en el capítulo A.10 (Evaluación e intervención de edificaciones construidas antes de la vigencia de la presente versión del Reglamento) numeral A.10.9.2.3 (Intervención de edificaciones diseñadas y construidas dentro de la vigencia del Decreto 1400 de 1984) especifica "Cuando se trate de intervenciones estructurales de edificaciones diseñadas y construidas después del 1º de diciembre de 1984 y antes del 19 de febrero de 1998, estipula que:

"(a) En el caso de diseñarse la intervención cumpliendo los requisitos establecidos en A.10.4.2.1, con el fin de lograr un nivel de seguridad equivalente al de una edificación nueva, se permite que el indice de flexibilidad evaluado para la edificación reparada alcance, sin exceder, valores hasta de 1.5. El índice de sobreesfuerzos no puede exceder la unidad.

Los desplazamientos en cada nodo por piso y el calculo de las derivas se muestran a continuación

CHEQUEO DE DERIVAS MAXIMAS PERMITIDAS POR LA NSR - 10

Proyecto: 199-CDA LA POLA Serv Generales
Realizó: BDRV
Contiene: DERIVAS UMBRAL DE DAÑO
Fecha: MAYO DE 2015

Story2	3300.00	Deriva máx =	0.0100	INDICE DE FLEXIBILIDAD MAXIMO EN X 1.3197
Story1	3600.00			INDICE DE FLEXIBILIDAD MAXIMO EN Y 1.0791
Base	0.00			

Story	Label	Case/C	UX	UY	UZ	RX	RY	RZ	Story	Label	Case/C	UX	UY	UZ	RX	RY	RZ	Deriva	Deriva	Deriva max	Indice	Indice	Chequ	Chequ
Story2	13	SXDER Ma	37.6	38.7	0.2	0.000848	0.006534	0.00308	Story2	13	SYDER Ma	5.2	37.2	0.04622	0.000554	0.000866	0.001848	40.041	17.959	33.000	1.21	0.54	NO PASA	OK
Story1	13	SXDER Ma	0.2	24.4	0.1	0.006084	0.000127	0.002389	Story1	13	SYDER Ma	0.03263	20	0.02246	0.005532	0.000021	0.000704	24.401	20.000	36.000	0.68	0.56	OK	OK
Base	13	SXDER Ma	0	0	0	0	0	0	Base	13	SYDER Ma	0	0	0	0	0	0							
Story2	14	SXDER Ma	37.5	25.8	0.1	0.00055	0.005443	0.005845	Story2	14	SYDER Ma	5.1	41.2	0.1	0.000761	0.00074	0.001473	39.122	22.771	33.000	1.19	0.69	NO PASA	OK
Story1	14	SXDER Ma	0.2	14	0.02657	0.004502	0.000051	0.002243	Story1	14	SYDER Ma	0.0313	19	0.01353	0.006052	0.000013	0.000668	14.001	19.000	36.000	0.39	0.53	OK	OK
Base	14	SXDER Ma	0	0	0	0	0	0	Base	14	SYDER Ma	0	0	0	0	0	0							
Story2	15	SXDER Ma	11.2	15.5	0.1	0.00054	0.001483	0.003396	Story2	15	SYDER Ma	0.4	37.1	0.1	0.001422	0.000052	0.000966	12.985	18.404	33.000	0.39	0.56	OK	OK
Story1	15	SXDER Ma	0.2	8.6	0.01405	0.002418	0.000023	0.002283	Story1	15	SYDER Ma	0.03419	18.7	0.02443	0.005536	0.000004	0.000678	8.602	18.700	36.000	0.24	0.52	OK	OK
Base	15	SXDER Ma	0	0	0	0	0	0	Base	15	SYDER Ma	0	0	0	0	0	0							
Story2	16	SXDER Ma	11.2	14.6	0.1	0.000647	0.001484	0.003385	Story2	16	SYDER Ma	0.4	37.2	0.1	0.001461	0.000056	0.000952	13.257	18.704	33.000	0.40	0.57	OK	OK
Story1	16	SXDER Ma	0.2	7.2	0.01122	0.002146	0.00002	0.002251	Story1	16	SYDER Ma	0.02631	18.5	0.02203	0.005598	0.000006	0.000671	7.203	18.500	36.000	0.20	0.51	OK	OK
Base	16	SXDER Ma	0	0	0	0	0	0	Base	16	SYDER Ma	0	0	0	0	0	0							
Story2	17	SXDER Ma	27.5	22.2	0.1	0.00057	0.008598	0.004099	Story2	17	SYDER Ma	5.2	34.5	0.1	0.000471	0.001621	0.00122	29.250	16.621	33.000	0.89	0.50	OK	OK
Story1	17	SXDER Ma	0.2	11.7	0.01238	0.003017	0.000046	0.002247	Story1	17	SYDER Ma	0.03953	18.7	0.01197	0.004645	0.000013	0.000667	11.702	18.700	36.000	0.33	0.52	OK	OK
Base	17	SXDER Ma	0	0	0	0	0	0	Base	17	SYDER Ma	0	0	0	0	0	0							
Story2	18	SXDER Ma	28.5	36.1	0.1	0.000959	0.009426	0.004887	Story2	18	SYDER Ma	4.2	36.5	0.03137	0.000693	0.001365	0.001762	31.485	17.390	33.000	0.95	0.53	OK	OK
Story1	18	SXDER Ma	0.2	22.3	0.1	0.005012	0.00008	0.002204	Story1	18	SYDER Ma	0.1	19.6	0.0334	0.004789	0.000015	0.000656	22.301	19.600	36.000	0.62	0.54	OK	OK
Base	18	SXDER Ma	0	0	0	0	0	0	Base	18	SYDER Ma	0	0	0	0	0	0							
Story2	19	SXDER Ma	50.5	38.9	0.3	0.0013	0.007141	0.003281	Story2	19	SYDER Ma	10.7	37.3	0.1	0.001405	0.001331	0.00286	43.550	19.018	33.000	1.32	0.58	NO PASA	OK
Story1	19	SXDER Ma	9.4	24.5	0.2	0.00083	0.002952	0.002195	Story1	19	SYDER Ma	2.8	20	0.0449	0.000768	0.00069	0.000653	26.241	20.195	36.000	0.73	0.56	OK	OK
Base	19	SXDER Ma	0	0	0	0	0	0	Base	19	SYDER Ma	0	0	0	0	0	0							
Story2	20	SXDER Ma	50.4	25.9	0.2	0.001014	0.006103	0.005533	Story2	20	SYDER Ma	10.7	41.4	0.1	0.001705	0.001124	0.001737	42.692	23.658	33.000	1.29	0.72	NO PASA	OK
Story1	20	SXDER Ma	9.4	14	0.1	0.000381	0.00169	0.00221	Story1	20	SYDER Ma	2.8	19.1	0.1	0.000693	0.000366	0.000658	16.863	19.304	36.000	0.47	0.54	OK	OK
Base	20	SXDER Ma	0	0	0	0	0	0	Base	20	SYDER Ma	0	0	0	0	0	0							
Story2	21	SXDER Ma	18	15.5	0.1	0.001024	0.001453	0.003276	Story2	21	SYDER Ma	4	37	0.2	0.002684	0.000138	0.000946	10.964	18.240	33.000	0.33	0.55	OK	OK
Story1	21	SXDER Ma	9.4	8.7	0.1	0.000299	0.000631	0.002187	Story1	21	SYDER Ma	2.8	18.8	0.1	0.000771	0.00021	0.00065	12.808	19.007	36.000	0.36	0.53	OK	OK
Base	21	SXDER Ma	0	0	0	0	0	0	Base	21	SYDER Ma	0	0	0	0	0	0							
Story2	22	SXDER Ma	18	14.6	0.1	0.001064	0.001464	0.003273	Story2	22	SYDER Ma	4	37.2	0.2	0.002707	0.000155	0.000935	11.357	18.645	33.000	0.34	0.57	OK	OK
Story1	22	SXDER Ma	9.3	7.3	0.1	0.00034	0.000634	0.002218	Story1	22	SYDER Ma	2.7	18.6	0.1	0.00087	0.000188	0.000659	11.823	18.795	36.000	0.33	0.52	OK	OK
Base	22	SXDER Ma	0	0	0	0	0	0	Base	22	SYDER Ma	0	0	0	0	0	0							
Story2	23	SXDER Ma	40.1	22.2	0.2	0.00083	0.004903	0.004563	Story2	23	SYDER Ma	10.4	34.6	0.1	0.001091	0.001178	0.001825	32.603	17.576	33.000	0.99	0.53	OK	OK
Story1	23	SXDER Ma	9.2	11.8	0.1	0.000414	0.001172	0.002246	Story1	23	SYDER Ma	2.7	18.8	0.1	0.000609	0.000285	0.000668	14.963	18.993	36.000	0.42	0.53	OK	OK
Base	23	SXDER Ma	0	0	0	0	0	0	Base	23	SYDER Ma	0	0	0	0	0	0							
Story2	24	SXDER Ma	40.2	36.3	0.2	0.001282	0.004944	0.003213	Story2	24	SYDER Ma	10.4	36.7	0.1	0.001386	0.001096	0.001361	33.974	18.754	33.000	1.03	0.57	NO PASA	OK
Story1	24	SXDER Ma	9.2	22.4	0.1	0.00114	0.002991	0.002234	Story1	24	SYDER Ma	2.7	19.6	0.0494	0.0011	0.00098	0.000664	24.216	19.785	36.000	0.67	0.55	OK	OK
Base	24	SXDER Ma	0	0	0	0	0	0	Base	24	SYDER Ma	0	0	0	0	0	0							
Story2	25	SXDER Ma	54.3	38.9	0.1	0.001113	0.012749	0.005594	Story2	25	SYDER Ma	14.7	37.4	0.1	0.001173	0.003171	0.001159	40.918	20.069	33.000	1.24	0.61	NO PASA	OK

Story1	25	SXDER Ma	16	24.5	0.1	0.002148	0.003186	0.002167	Story1	25	SYDER Ma	4.7	20	0.1	0.002007	0.000881	0.000645	29.262	20.545	36.000	0.81	0.57	OK	OK
Base	25	SXDER Ma	0	0	0	0	0	0	Base	25	SYDER Ma	0	0	0	0	0	0							
Story2	26	SXDER Ma	47	25.9	0.3	0.000939	0.004088	0.005796	Story2	26	SYDER Ma	13.2	41.5	0.2	0.00177	0.001072	0.001821	33.206	23.959	33.000	1.01	0.73	NO PASA	OK
Story1	26	SXDER Ma	16	14	0.2	0.001062	0.001504	0.002183	Story1	26	SYDER Ma	4.7	19.1	0.1	0.001667	0.000435	0.00065	21.260	19.670	36.000	0.59	0.55	OK	OK
Base	26	SXDER Ma	0	0	0	0	0	0	Base	26	SYDER Ma	0	0	0	0	0	0							
Story2	27	SXDER Ma	47	20.7	0.2	0.001733	0.001811	0.005217	Story2	27	SYDER Ma	13.2	47.5	0.2	0.004175	0.000498	0.001784	33.299	29.932	33.000	1.01	0.91	NO PASA	OK
Story1	27	SXDER Ma	15.9	8.8	0.1	0.000757	0.00167	0.002199	Story1	27	SYDER Ma	4.7	18.8	0.1	0.001695	0.000478	0.000654	18.173	19.379	36.000	0.50	0.54	OK	OK
Base	27	SXDER Ma	0	0	0	0	0	0	Base	27	SYDER Ma	0	0	0	0	0	0							
Story2	28	SXDER Ma	46.9	16.2	0.1	0.002885	0.002193	0.004137	Story2	28	SYDER Ma	13.2	39.8	0.1	0.006623	0.000567	0.003096	32.252	22.748	33.000	0.98	0.69	OK	OK
Story1	28	SXDER Ma	15.9	7.3	0.1	0.000528	0.001626	0.002204	Story1	28	SYDER Ma	4.7	18.7	0.04123	0.001278	0.000461	0.000657	17.496	19.282	36.000	0.49	0.54	OK	OK
Base	28	SXDER Ma	0	0	0	0	0	0	Base	28	SYDER Ma	0	0	0	0	0	0							
Story2	29	SXDER Ma	46.9	22.3	0.1	0.001505	0.002249	0.003966	Story2	29	SYDER Ma	13.2	34.6	0.2	0.002224	0.000585	0.001369	32.635	17.941	33.000	0.99	0.54	OK	OK
Story1	29	SXDER Ma	16	11.8	0.1	0.000844	0.001566	0.002222	Story1	29	SYDER Ma	4.7	18.8	0.1	0.00128	0.000445	0.000661	19.881	19.379	36.000	0.55	0.54	OK	OK
Base	29	SXDER Ma	0	0	0	0	0	0	Base	29	SYDER Ma	0	0	0	0	0	0							
Story2	30	SXDER Ma	47	36.3	0.2	0.000973	0.005054	0.003249	Story2	30	SYDER Ma	13.2	36.8	0.1	0.000961	0.001336	0.001005	34.015	19.186	33.000	1.03	0.58	NO PASA	OK
Story1	30	SXDER Ma	16	22.3	0.1	0.001901	0.003323	0.002207	Story1	30	SYDER Ma	4.7	19.6	0.1	0.001908	0.000951	0.000657	27.446	20.156	36.000	0.76	0.56	OK	OK
Base	30	SXDER Ma	0	0	0	0	0	0	Base	30	SYDER Ma	0	0	0	0	0	0							
Story2	31	SXDER Ma	62.7	39	0.5	0.00109	0.005911	0.003746	Story2	31	SYDER Ma	19	37.4	0.2	0.001183	0.001836	0.001226	38.848	20.639	33.000	1.18	0.63	NO PASA	OK
Story1	31	SXDER Ma	26.7	24.4	0.4	0.001772	0.004544	0.002104	Story1	31	SYDER Ma	7.9	20	0.2	0.001702	0.00139	0.000627	36.170	21.504	36.000	1.00	0.60	NO PASA	OK
Base	31	SXDER Ma	0	0	0	0	0	0	Base	31	SYDER Ma	0	0	0	0	0	0							
Story2	32	SXDER Ma	62.6	26	0.2	0.000921	0.002584	0.003194	Story2	32	SYDER Ma	19	41.6	0.2	0.001675	0.000782	0.001386	37.726	25.045	33.000	1.14	0.76	NO PASA	OK
Story1	32	SXDER Ma	26.8	14.1	0.2	0.001148	0.002449	0.002128	Story1	32	SYDER Ma	8	19.1	0.2	0.001698	0.000731	0.000633	30.283	20.708	36.000	0.84	0.58	OK	OK
Base	32	SXDER Ma	0	0	0	0	0	0	Base	32	SYDER Ma	0	0	0	0	0	0							
Story2	33	SXDER Ma	62.5	20.7	0.2	0.001787	0.002281	0.00355	Story2	33	SYDER Ma	19	47.6	0.2	0.004338	0.000693	0.001678	37.536	30.829	33.000	1.14	0.93	NO PASA	OK
Story1	33	SXDER Ma	26.9	8.8	0.2	0.001454	0.002928	0.002182	Story1	33	SYDER Ma	8	18.8	0.2	0.003299	0.000885	0.00065	28.303	20.431	36.000	0.79	0.57	OK	OK
Base	33	SXDER Ma	0	0	0	0	0	0	Base	33	SYDER Ma	0	0	0	0	0	0							
Story2	34	SXDER Ma	62.3	21.9	0.2	0.005446	0.002399	0.004872	Story2	34	SYDER Ma	18.9	52.5	0.1	0.011937	0.00075	0.002101	38.200	35.609	33.000	1.16	1.08	NO PASA	NO PASA
Story1	34	SXDER Ma	27	7.3	0.1	0.000801	0.002487	0.002212	Story1	34	SYDER Ma	8	18.6	0.1	0.001897	0.000761	0.000659	27.969	20.247	36.000	0.78	0.56	OK	OK
Base	34	SXDER Ma	0	0	0	0	0	0	Base	34	SYDER Ma	0	0	0	0	0	0							
Story2	35	SXDER Ma	62.2	28.2	0.2	0.006143	0.002268	0.003661	Story2	35	SYDER Ma	18.9	52.1	0.1	0.011716	0.000695	0.002262	38.833	35.039	33.000	1.18	1.06	NO PASA	NO PASA
Story1	35	SXDER Ma	27	11.8	0.1	0.001591	0.002677	0.002215	Story1	35	SYDER Ma	8	18.8	0.1	0.002956	0.000804	0.00066	29.466	20.431	36.000	0.82	0.57	OK	OK
Base	35	SXDER Ma	0	0	0	0	0	0	Base	35	SYDER Ma	0	0	0	0	0	0							
Story2	36	SXDER Ma	62.2	36.4	0.3	0.002969	0.005246	0.003641	Story2	36	SYDER Ma	18.9	36.8	0.1	0.003562	0.001625	0.002014	37.956	20.363	33.000	1.15	0.62	NO PASA	OK
Story1	36	SXDER Ma	27	22.2	0.2	0.002022	0.005641	0.00204	Story1	36	SYDER Ma	8	19.6	0.1	0.001876	0.001712	0.000613	34.955	21.170	36.000	0.97	0.59	OK	OK
Base	36	SXDER Ma	0	0	0	0	0	0	Base	36	SYDER Ma	0	0	0	0	0	0							
Story2	37	SXDER Ma	73	39.1	0.2	0.001832	0.005234	0.003046	Story2	37	SYDER Ma	22.7	37.4	0.3	0.002006	0.001775	0.001521	42.650	21.660	33.000	1.29	0.66	NO PASA	OK
Story1	37	SXDER Ma	33	24.3	0.1	0.003199	0.006882	0.002061	Story1	37	SYDER Ma	9.8	20	0.2	0.002832	0.002084	0.000616	40.982	22.272	36.000	1.14	0.62	NO PASA	OK
Base	37	SXDER Ma	0	0	0	0	0	0	Base	37	SYDER Ma	0	0	0	0	0	0							
Story2	38	SXDER Ma	73	26	0.4	0.001527	0.00559	0.003591	Story2	38	SYDER Ma	22.7	41.6	0.4	0.00247	0.00182	0.001239	41.924	25.936	33.000	1.27	0.79	NO PASA	OK
Story1	38	SXDER Ma	32.8	14.1	0.2	0.001908	0.003671	0.002055	Story1	38	SYDER Ma	9.8	19.1	0.3	0.003252	0.001202	0.000626	35.702	21.467	36.000	0.99	0.60	OK	OK
Base	38	SXDER Ma	0	0	0	0	0	0	Base	38	SYDER Ma	0	0	0	0	0	0							
Story1	39	SXDER Ma	32.3	7.3	0.1	0.00266	0.002435	0.002508	Story1	39	SYDER Ma	9.6	16.4	0.02575	0.006041	0.000719	0.000782	33.115	19.003	36.000	0.92	0.53	OK	OK
Base	39	SXDER Ma	0	0	0	0	0	0	Base	39	SYDER Ma	0	0	0	0	0	0							
Story1	40	SXDER Ma	31.8	7.3	0.1	0.001101	0.002503	0.000995	Story1	40	SYDER Ma	9.5	18.6	0.1	0.002839	0.000745	0.000332	32.627	20.886	36.000	0.91	0.58	OK	OK
Base	40	SXDER Ma	0	0	0	0	0	0	Base	40	SYDER Ma	0	0	0	0	0	0							
Story1	41	SXDER Ma	31.6	9.1	0.0466	0.003407	0.002421	0.002007	Story1	41	SYDER Ma	9.4	15.5	0.01407	0.005773	0.000719	0.00088	32.884	18.128	36.000	0.91	0.50	OK	OK
Base	41	SXDER Ma	0	0	0	0	0	0	Base	41	SYDER Ma	0	0	0	0	0	0							
Story1	42	SXDER Ma	31.4	22.1	0.1	0.003177	0.006322	0.001754	Story1	42	SYDER Ma	9.3	19.5	0.1	0.002883	0.00188	0.000687	38.398	21.604	36.000	1.07	0.60	NO PASA	OK
Base	42	SXDER Ma	0	0	0	0	0	0	Base	42	SYDER Ma	0	0	0	0	0	0							

CHEQUEO DE DERIVAS MAXIMAS PERMITIDAS POR LA NSR - 10

Proyecto: 199-CDA LA POLA Serv Generales
Realizó: BDRV
Contiene: DERIVAS
Fecha: MAYO DE 2015

Story2		3300.00
Story1		0.00
Base		0.00

Deriva máx = 0.0100

INDICE DE FLEXIBILIDAD MAXIMO EN X	1.4998
INDICE DE FLEXIBILIDAD MAXIMO EN Y	1.2434

Story	Label	Case/C	UX	UY	UZ	RX	RY	RZ	Story	Label	Case/C	UX	UY	UZ	RX	RY	RZ	Deriva	Deriva	Deriva max	Indice	Indice	Chequ	Chequ
Story2	1	SXDER Ma	27.1	38.4	0.1	0.006437	0.005189	0.002666	Story2	1	SYDER Ma	1.8	36.9	0.1	0.006411	0.000242	0.001047	47.000	36.944	33.000	1.42	1.12	NO PASA	NO PASA
Story1	1	SXDER Ma	0	0	0	0	0	0	Story1	1	SYDER Ma	0	0	0	0	0	0							
Story2	2	SXDER Ma	27.1	25.6	0.1	0.004296	0.001751	0.002921	Story2	2	SYDER Ma	1.8	40.9	0.1	0.006809	0.000114	0.001291	37.280	40.940	33.000	1.13	1.24	NO PASA	NO PASA
Story1	2	SXDER Ma	0	0	0	0	0	0	Story1	2	SYDER Ma	0	0	0	0	0	0							
Story2	3	SXDER Ma	27.1	16.2	0.1	0.002582	0.00191	0.003393	Story2	3	SYDER Ma	1.8	33.4	0.1	0.005358	0.000119	0.001861	31.573	33.448	33.000	0.96	1.01	OK	NO PASA
Story1	3	SXDER Ma	0	0	0	0	0	0	Story1	3	SYDER Ma	0	0	0	0	0	0							
Story2	4	SXDER Ma	27.1	13.5	0.1	0.002387	0.001931	0.002863	Story2	4	SYDER Ma	1.8	28.9	0.1	0.005083	0.00011	0.001082	30.276	28.956	33.000	0.92	0.88	OK	OK
Story1	4	SXDER Ma	0	0	0	0	0	0	Story1	4	SYDER Ma	0	0	0	0	0	0							
Story2	5	SXDER Ma	27	17.6	0.0371	0.006114	0.001718	0.003612	Story2	5	SYDER Ma	1.7	27.8	0.003406	0.009663	0.000113	0.001445	32.230	27.852	33.000	0.98	0.84	OK	OK
Story1	5	SXDER Ma	0	0	0	0	0	0	Story1	5	SYDER Ma	0	0	0	0	0	0							
Story2	6	SXDER Ma	27	35.8	0.1	0.006148	0.004863	0.002538	Story2	6	SYDER Ma	1.7	36.3	0.1	0.006497	0.000283	0.001355	44.840	36.340	33.000	1.36	1.10	NO PASA	NO PASA
Story1	6	SXDER Ma	0	0	0	0	0	0	Story1	6	SYDER Ma	0	0	0	0	0	0							
Story2	7	SXDER Ma	31.1	38.5	0.02112	0.00308	0.010617	0.003654	Story2	7	SYDER Ma	3.4	37	0.01356	0.002867	0.001117	0.000964	49.492	37.156	33.000	1.50	1.13	NO PASA	NO PASA
Story1	7	SXDER Ma	0	0	0	0	0	0	Story1	7	SYDER Ma	0	0	0	0	0	0							
Story2	8	SXDER Ma	26.9	25.6	0.1	0.002025	0.003464	0.004438	Story2	8	SYDER Ma	1.6	41	0.01519	0.003271	0.000243	0.001435	37.134	41.031	33.000	1.13	1.24	NO PASA	NO PASA
Story1	8	SXDER Ma	0	0	0	0	0	0	Story1	8	SYDER Ma	0	0	0	0	0	0							
Story2	9	SXDER Ma	26.9	16.3	0.1	0.002285	0.001584	0.003454	Story2	9	SYDER Ma	1.6	33.3	0.1	0.004797	0.000091	0.002025	31.453	33.338	33.000	0.95	1.01	OK	NO PASA
Story1	9	SXDER Ma	0	0	0	0	0	0	Story1	9	SYDER Ma	0	0	0	0	0	0							
Story2	10	SXDER Ma	26.9	13.5	0.1	0.001977	0.001887	0.004008	Story2	10	SYDER Ma	1.6	29	0.1	0.004372	0.000101	0.001348	30.098	29.044	33.000	0.91	0.88	OK	OK
Story1	10	SXDER Ma	0	0	0	0	0	0	Story1	10	SYDER Ma	0	0	0	0	0	0							
Story2	11	SXDER Ma	26.8	22.2	0.1	0.003061	0.002088	0.004693	Story2	11	SYDER Ma	1.6	34.4	0.1	0.004894	0.000195	0.002774	34.801	34.437	33.000	1.05	1.04	NO PASA	NO PASA
Story1	11	SXDER Ma	0	0	0	0	0	0	Story1	11	SYDER Ma	0	0	0	0	0	0							
Story2	12	SXDER Ma	26.8	36	0.1	0.002824	0.005204	0.001712	Story2	12	SYDER Ma	1.6	36.4	0.01522	0.002852	0.000346	0.001338	44.880	36.435	33.000	1.36	1.10	NO PASA	NO PASA
Story1	12	SXDER Ma	0	0	0	0	0	0	Story1	12	SYDER Ma	0	0	0	0	0	0							

Tabla 13 Tabla de derivas

La vulnerabilidad de la edificación por rigidez es definida como el inverso del índice de flexibilidad de la estructura y expresa la vulnerabilidad de la estructura como una fracción de la rigidez de una estructura construida siguiendo todos los parámetros establecidos por la NSR 10.

Por su parte la vulnerabilidad por rigidez de la estructura está dada por: $VRI = \frac{1}{IF}$

INDICE DE FLEXIBILIDAD MAXIMO EN X	1.50
INDICE DE FLEXIBILIDAD MAXIMO EN Y	1.24

Tabla 14 Indice de flexibilidad

Por tanto los valores de VRI son:

VRI MAXIMO EN X	0.66
VRI MAXIMOEN Y	0.80

Tabla 15 Indices de vulnerabilidad por rigidez

14 ESFUERZOS DEBIDOS A COMBINACIONES GRAVITACIONALES Y A COMBINACIONES DE SISMO

Según la NSR-10 A.10.4.3.1 se define el Índice de sobreesfuerzo de la estructura como la evaluación de los elementos de un mayor índice de sobreesfuerzo individual y tomando en consideración su importancia dentro de la resistencia general de la estructura como un conjunto. Con base en esta definición se entiende como Índice de sobreesfuerzo del piso como el mayor valor de los índices de sobreesfuerzo determinados para los elementos que conforman el piso (obteniendo uno para cargas verticales y otro para cargas sísmicas).

Para este estudio se tomaron los Índices de sobreesfuerzo por tipo de elemento y por piso, escogiendo el mayor valor de los índices determinados para este tipo de elementos en cada piso.

Debe dejarse claro que los índices hallados para cargas sísmicas deben ser tomados no como un factor que determine si la estructura puede o no resistir un sismo, sino como un indicador que cualifique el buen o mal desempeño de la edificación ante las solicitaciones dinámicas.

Esto toma aún más validez si se tienen en cuenta las idealizaciones hechas para simplificar el análisis dinámico (existencia o no de diafragmas, condiciones de apoyo, excentricidades accidentales, etc), y el hecho de que dicho análisis no es más que una simulación aproximada de la forma como la estructura se comportará ante la eventualidad de una excitación del suelo de fundación.

Con la información recopilada en campo, las inspecciones y ensayos de laboratorio realizados a las muestras, se obtuvo información de la calidad de los materiales (concreto y acero de refuerzo) y algunos indicios del refuerzo colocado, sin embargo tener certeza del 100% del

refuerzo colocado sin contar con los planos y diseños originales de construcción es imposible, por otro lado pensar en un programa de inspecciones con regatas y ferroscan para obtener esa información es considerar realizar una intervención demasiado invasiva a todos los elementos de la estructura, sin contar que para poder realizar la inspección del refuerzo en columnas y vigas recubiertas por muros tocaría demolerlos en el área circundante al punto de inspección.

De acuerdo a lo expuesto anteriormente y teniendo la certeza de que las edificaciones fueron diseñadas y construidas bajo las especificaciones del Decreto 1400 de 1984, se propone utilizar como metodología para la obtención de la resistencia de los elementos existentes, el análisis y diseño para las combinaciones gravitacionales bajo el Decreto 1400 de 1984 y verificar los índices de sobreesfuerzo para las nuevas solicitaciones de acuerdo al NSR-10.

Para la obtención de la resistencia de los elementos existentes formados por Pórticos de Concreto Reforzado en zonas de riesgo sísmico intermedio según el Decreto 1400 de 1984 se utilizará el programa DCCAD 2010, el cual contiene dentro de sus normas de diseño el decreto en mención.

Según el artículo B.2.4.2 "Combinaciones Básicas" del Decreto 1400 de 1984 las combinaciones gravitacionales son:

1.6D (B.2.4-1)
1.4D + 1.7L (B.2.4-2)

Para estas combinaciones se calcula el refuerzo existente, en el anexo 2 se presentan las memorias de diseño correspondientes para las vigas y columnas de las estructuras #1 y #2, donde el refuerzo requerido tanto para las vigas como para las columnas es por cuantía mínima.

En la Tabla siguiente se observan los coeficientes propuestos para la reducción de la resistencia de los elementos de acuerdo al Título A.10 de la NSR-10. Para la estructura, el coeficiente para calidad de diseño y la construcción es adoptado como 0.8 debido a que la edificación no fue diseñada siguiendo los lineamientos de la NSR10 ni contemplo la capacidad de disipación de energía, el coeficiente de estado de la estructura propuesto es de 1.0 (bueno).

COEFICIENTES DE REDUCCIÓN DE RESISTENCIA	
DETALLE	**COEFICIENTE**
Calidad de diseño y construcción øc	0.8
Estado de la estructura øe	1.0

A continuación se muestra gráficamente la variación de los índices de sobre-esfuerzo presentes en la estructura:

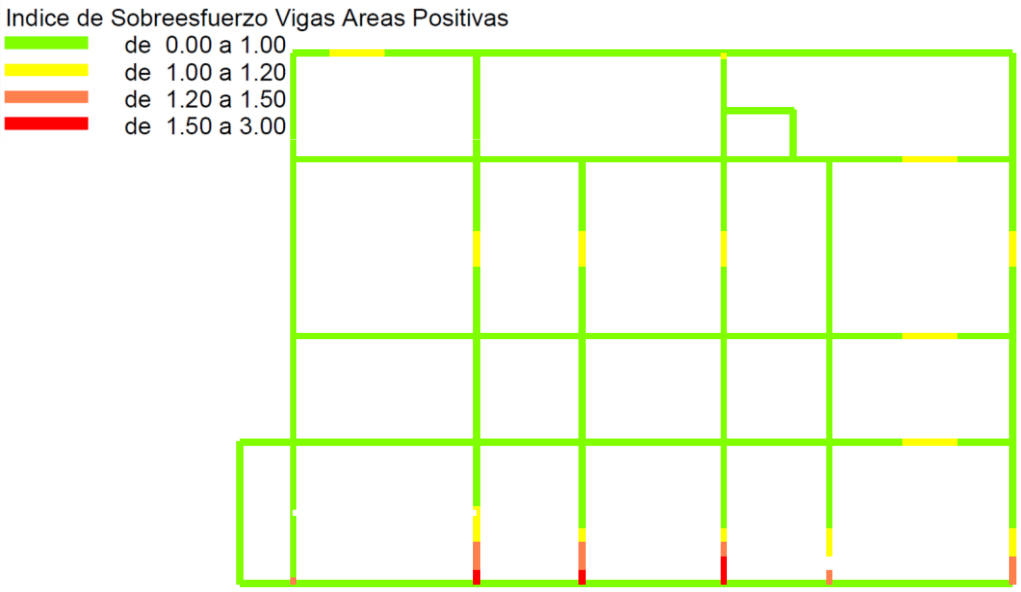


Imagen 19 Índice de sobreesfuerzo en Vigas a Momento Positivo –Primer nivel.

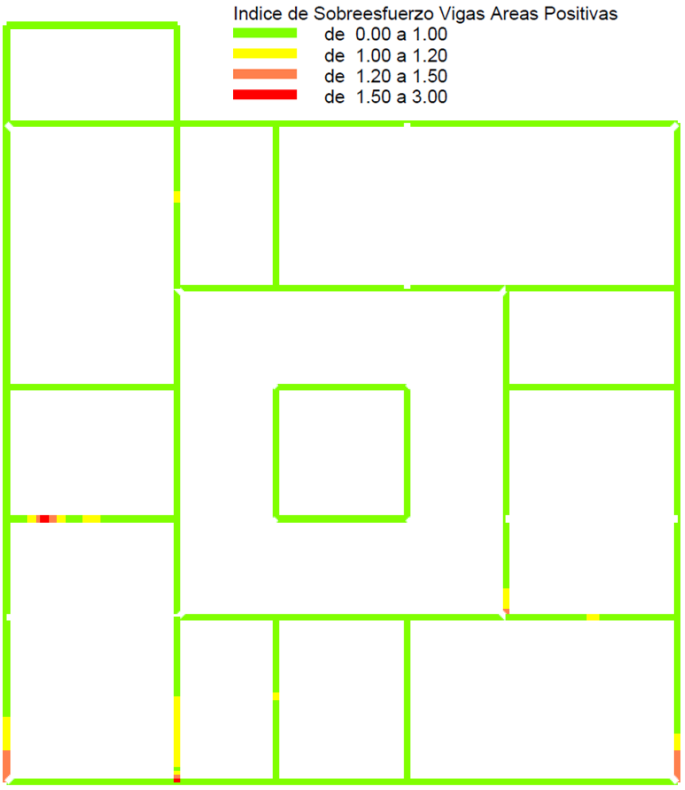


Imagen 20 Índice de sobreesfuerzo en Vigas a Momento Positivo –Segundo nivel.

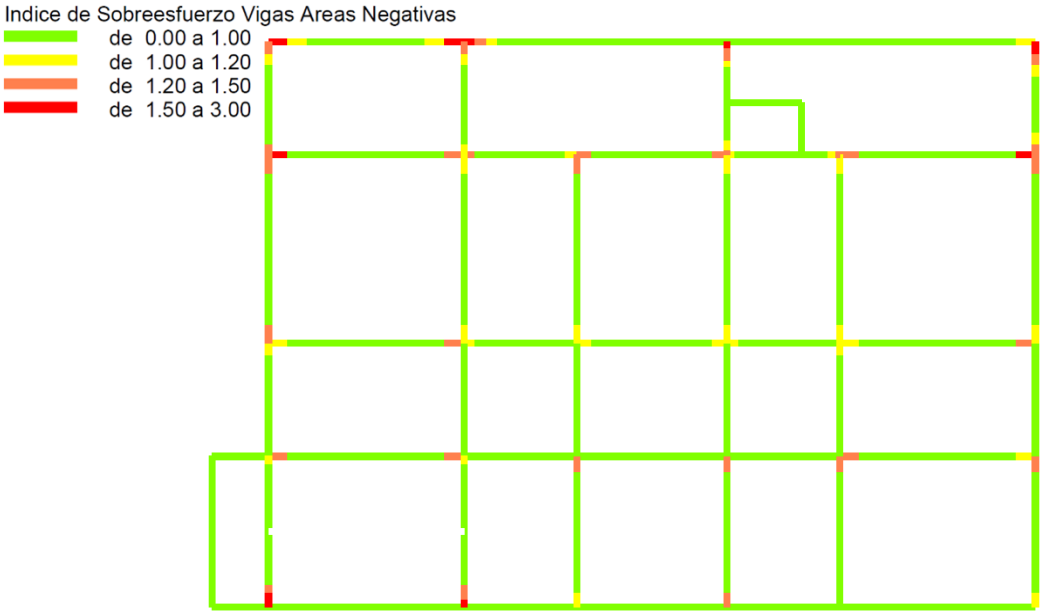


Imagen 21 Índice de sobreesfuerzo en Vigas a Momento Negativo –Primer nivel.

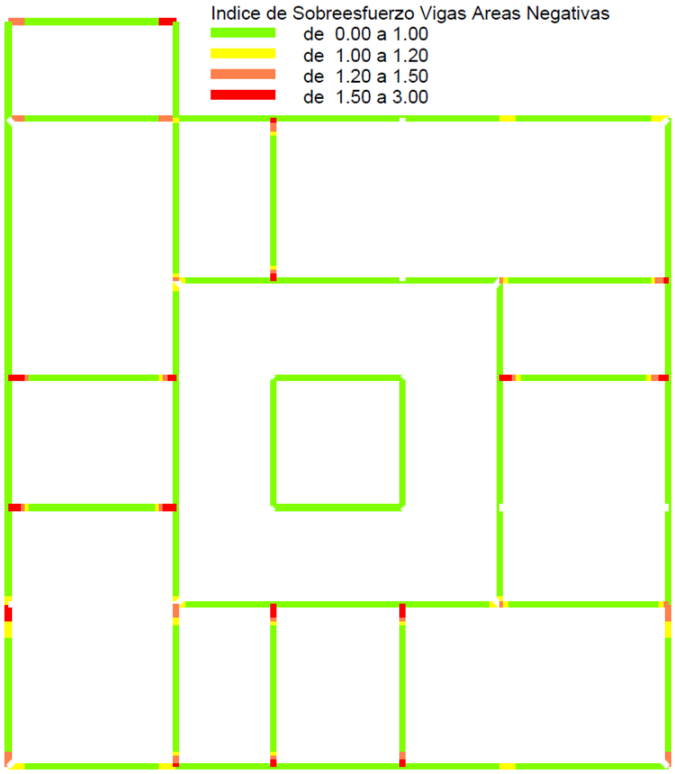


Imagen 22 Índice de sobreesfuerzo en Vigas a Momento Negativo –Segundo nivel.

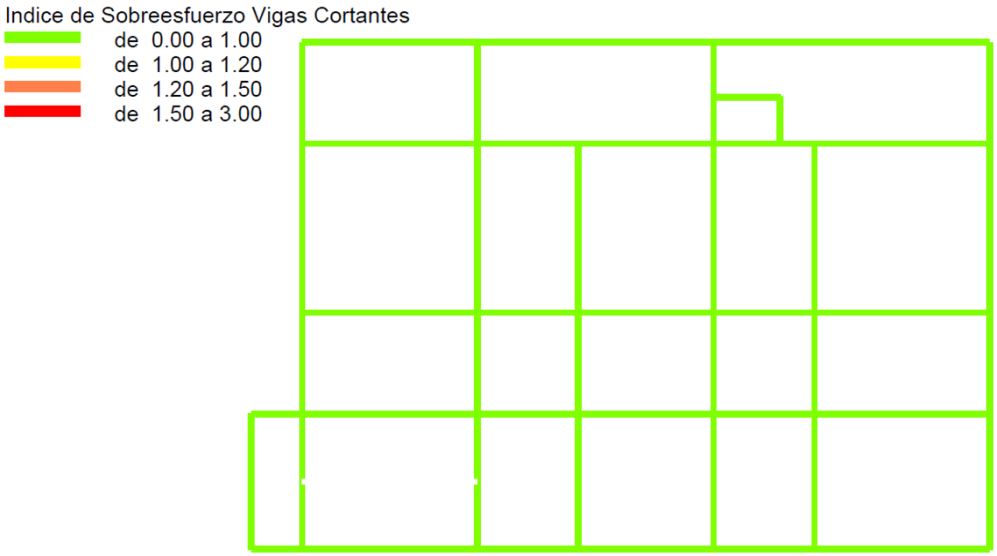


Imagen 23 Índice de sobreesfuerzo en Vigas a Cortante – Primer nivel

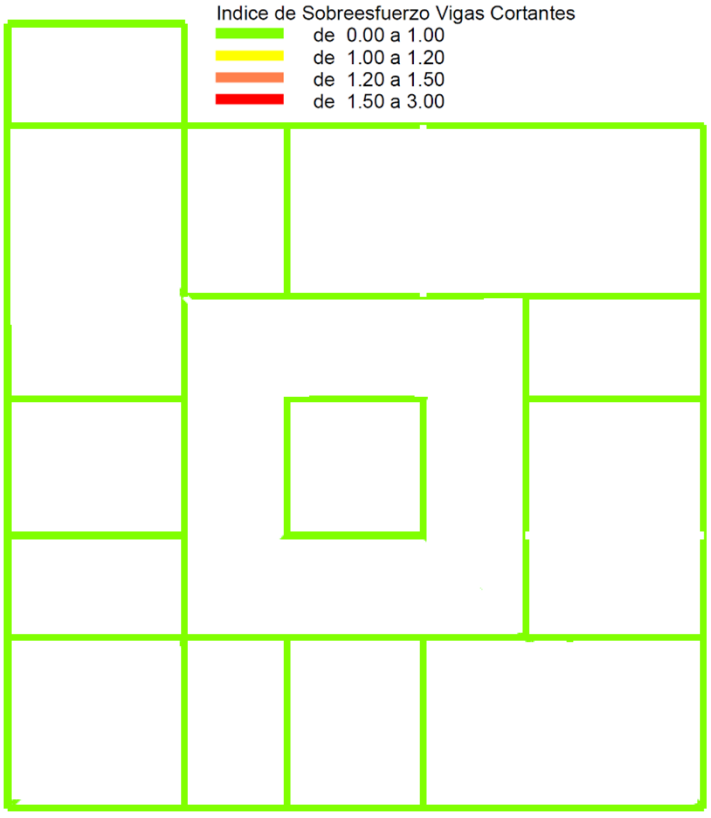


Imagen 24 Índice de sobreesfuerzo en Vigas a Cortante – Primer nivel

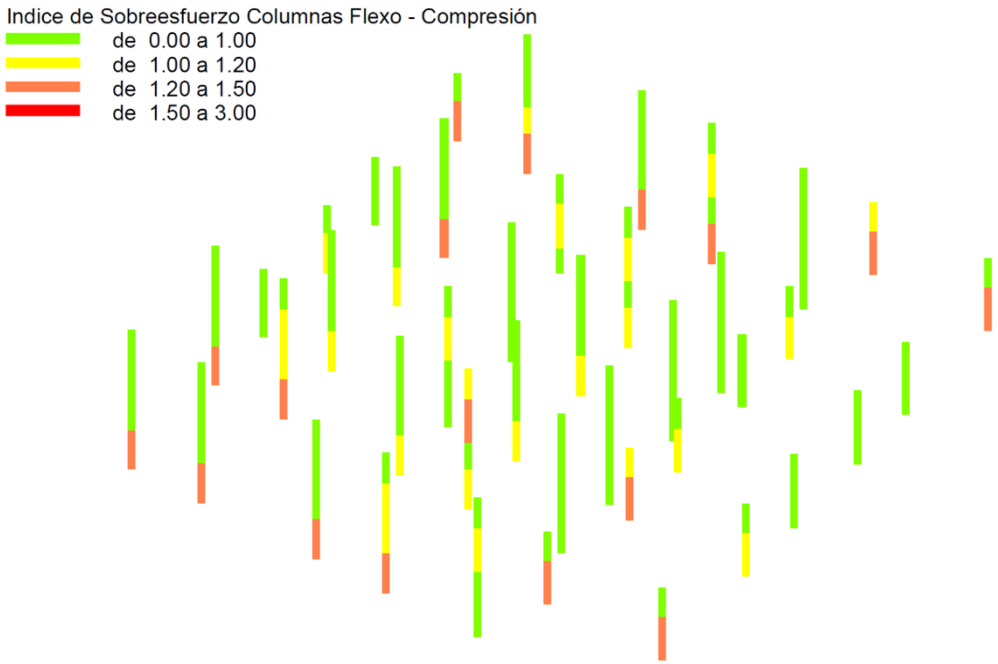


Imagen 25 Índice de sobreesfuerzo en Columnas a Flexo compresión.

INDICE MAX – FLEXO COMPRESION	1.45
INDICE MAX – FLEXION (+)	1.69
INDICE MAX – FLEXION (-)	2.44
INDICE MAX – CORTANTE VIGAS	0.71

15 REVISIÓN DE CIMENTACIÓN

De acuerdo a la inspección realizada se concluye que el sistema de cimentación construido consiste en Zapatas unidas por vigas de cimentación en ambos sentidos; a continuación se presentan los Parámetros Geotécnicos de diseño, obtenidos del Estudio de Suelos:

Profundidad de cimentación recomendada (m)	1.50
Profundidad de cimentación encontrada (m)	1.70
Tipo de cimentación	Zapata con viga de amarre
Capacidad portante (t/m2)	10.00

A continuación se muestran la numeración y distribución de los nodos usados en la base del modelo computacional:

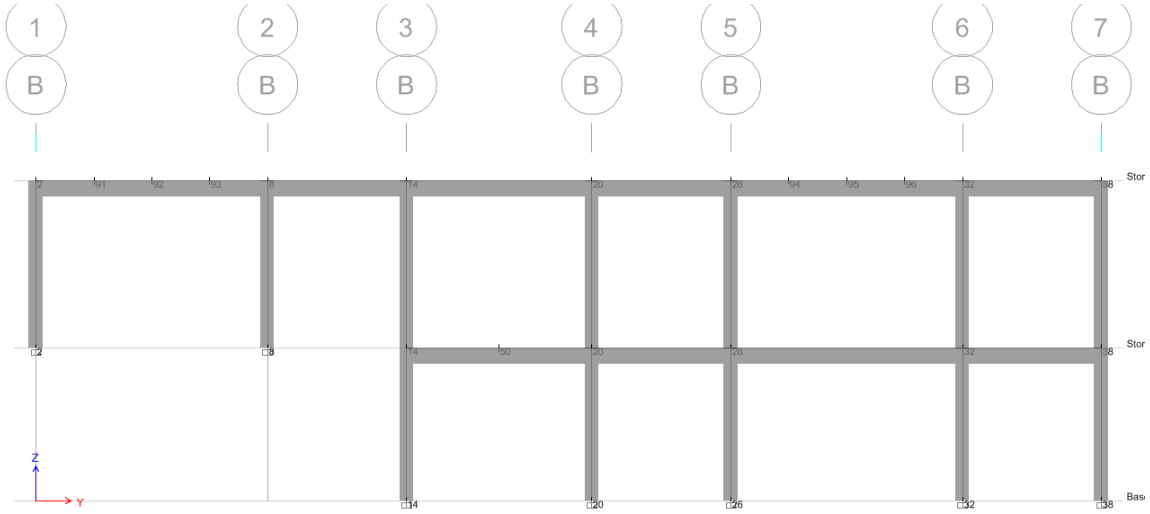


Imagen 26 Corte estructural – eje B .

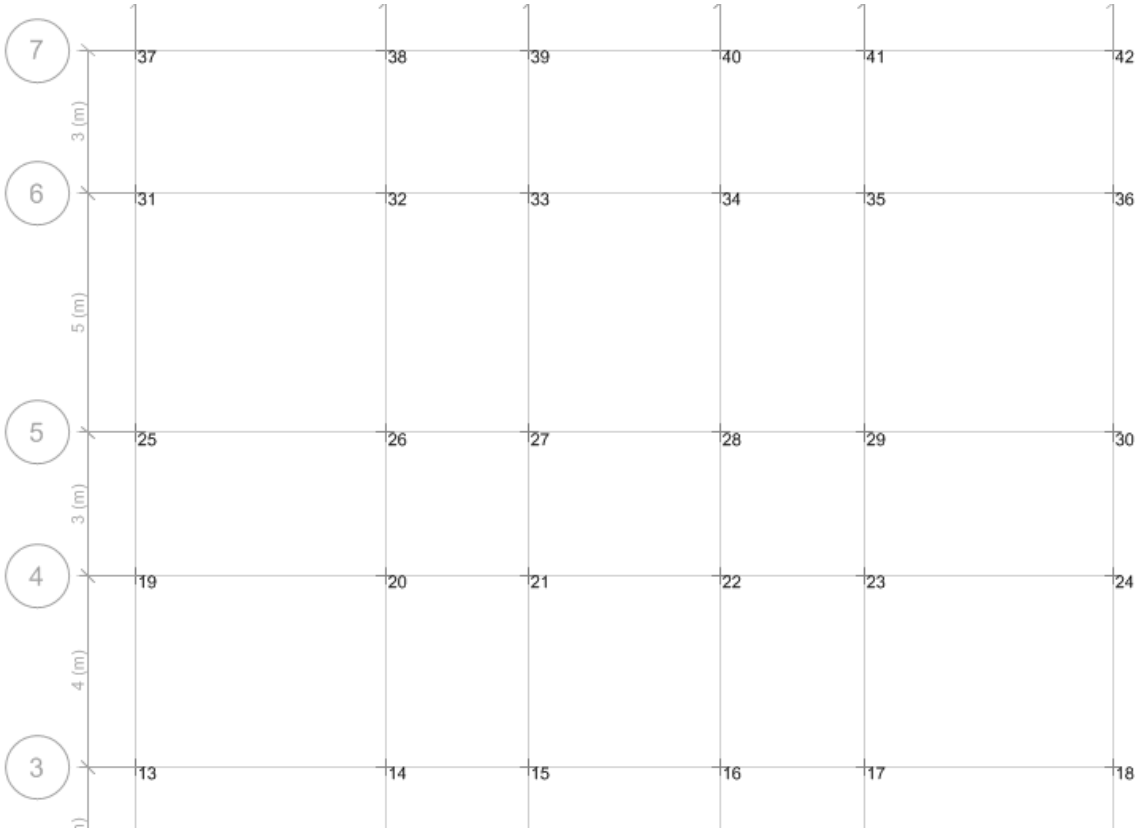


Imagen 27 Numeracion de puntos – Nivel "Base".

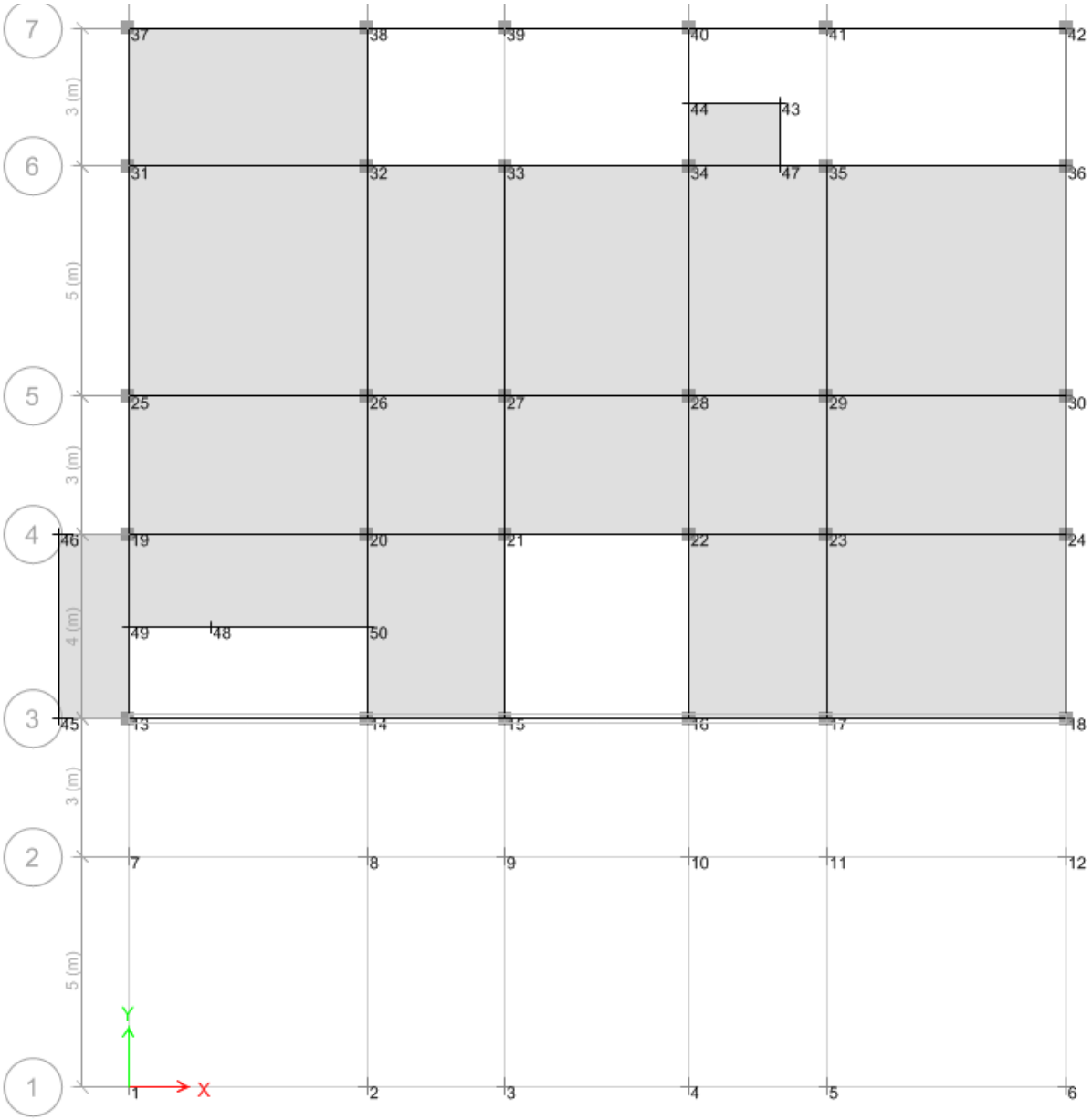


Imagen 28 Numeracion de puntos – Nivel "Story1".

A continuación se muestran las reacciones producidas por la carga viva, muerta y cargas de sismo:

TABLE: Joint Reactions

Story	Joint Label	Unique Name	Load Case/Combo	FX	FY	FZ	MX	MY	MZ
				kN	kN	kN	kN-m	kN-m	kN-m
Story1	1	15	DEAD	3.8295	3.1899	42.152	-3.1674	4.4676	0.2508
Story1	1	15	LR	0.2553	0.2688	2.247	-0.3043	0.292	0.0231
Story1	1	15	LIVE	-0.0015	-0.2519	-0.1752	0.5019	-0.0054	0.0179
Story1	1	15	SXDISE Max	68.2812	103.0631	58.8886	212.7461	144.691	7.9432
Story1	1	15	SYDISE Max	5.0836	96.7113	51.2708	200.966	10.1117	3.0917
Story1	2	101	DEAD	-1.9779	8.5477	79.7079	-9.5704	-2.4087	-0.1207
Story1	2	101	LR	-0.1385	0.997	6.4106	-1.15	-0.1743	-0.0174
Story1	2	101	LIVE	-0.0056	-0.1237	-0.083	0.2509	-0.0104	0.0121
Story1	2	101	SXDISE Max	91.9507	68.4604	35.1184	141.4013	172.9221	8.7042
Story1	2	101	SYDISE Max	5.9305	109.0186	55.8681	224.7946	11.1508	3.813
Story1	3	103	DEAD	0.9374	10.942	76.9919	-12.2514	1.0606	-0.1679
Story1	3	103	LR	0.0576	1.3009	6.6841	-1.4811	0.0591	-0.0196
Story1	3	103	LIVE	-0.0061	-0.0931	-0.0705	0.1927	-0.0112	-0.017
Story1	3	103	SXDISE Max	90.8709	44.5639	38.7795	91.1369	171.6473	10.1096
Story1	3	103	SYDISE Max	5.8977	90.3095	58.1221	185.0319	11.1157	5.4979
Story1	4	105	DEAD	-1.1886	11.8738	91.3693	-12.3194	-1.4535	-0.2905
Story1	4	105	LR	-0.0942	1.4871	8.7548	-1.5878	-0.1203	-0.0346
Story1	4	105	LIVE	-0.0059	-0.2351	-0.1637	0.4787	-0.0113	0.0033
Story1	4	105	SXDISE Max	90.6194	35.3558	34.8608	73.6853	171.286	8.5303
Story1	4	105	SYDISE Max	5.9327	75.387	51.9622	157.0132	11.1372	3.1974
Story1	5	107	DEAD	1.854	1.5156	42.7616	0.5175	2.1675	0.0654
Story1	5	107	LR	0.1075	0.1892	2.3555	0.0159	0.1197	0.0106
Story1	5	107	LIVE	-0.0057	-0.1015	-0.0006	0.2882	-0.0109	0.0041
Story1	5	107	SXDISE Max	91.7928	25.5421	20.9345	71.8202	172.4958	10.7639
Story1	5	107	SYDISE Max	5.8898	39.6415	1.9051	111.8798	11.0705	4.2695
Story1	6	16	DEAD	-4.3308	3.2505	42.2405	-3.5096	-5.1592	0.3969
Story1	6	16	LR	-0.3129	0.2955	2.291	-0.3763	-0.3785	0.0576
Story1	6	16	LIVE	-0.0051	-0.3056	-0.1966	0.6241	-0.01	-0.0296
Story1	6	16	SXDISE Max	69.9528	95.1817	53.7633	197.3234	146.471	7.563
Story1	6	16	SYDISE Max	4.7158	93.6904	53.4989	195.8845	9.6624	4.0029
Story1	7	29	DEAD	1.8686	-2.4533	42.2903	3.5201	1.081	-0.1478
Story1	7	29	LR	0.2048	-0.1329	2.243	0.1714	0.1243	-0.016
Story1	7	29	LIVE	-0.0447	-0.2011	0.6159	0.4429	-0.1011	0.0136
Story1	7	29	SXDISE Max	45.9613	126.8157	11.9103	241.2726	127.6435	10.8873
Story1	7	29	SYDISE Max	5.4558	121.3854	7.5825	230.509	14.4587	2.8481
Story1	8	113	DEAD	0.1883	-6.043	70.6869	7.7246	0.8949	0.0875
Story1	8	113	LR	-0.0025	-0.6561	6.5547	0.8093	0.0651	0.0079
Story1	8	113	LIVE	0.0398	-0.1139	0.279	0.2403	0.0712	0.0119
Story1	8	113	SXDISE Max	79.4228	84.5218	69.1012	160.6814	157.5751	13.2234
Story1	8	113	SYDISE Max	4.4849	133.7562	8.4932	254.4707	9.0784	4.239
Story1	9	114	DEAD	1.7583	-12.0427	73.9185	14.9952	2.7654	-0.1896
Story1	9	114	LR	0.1759	-1.396	6.9787	1.716	0.2776	-0.0249
Story1	9	114	LIVE	0.0325	-0.089	0.0705	0.1871	0.0628	0.002
Story1	9	114	SXDISE Max	92.2885	46.6432	49.6065	93.6198	172.8158	10.2934
Story1	9	114	SYDISE Max	5.5273	94.0769	57.5802	189.4592	10.3164	5.981
Story1	10	115	DEAD	-0.6425	-15.0742	75.1045	19.6338	-0.0725	-0.3992
Story1	10	115	LR	-0.0662	-1.8015	7.4728	2.3115	-0.0087	-0.0319
Story1	10	115	LIVE	0.0396	-0.2201	0.2125	0.4632	0.0717	-0.1081
Story1	10	115	SXDISE Max	90.1209	38.1082	39.6446	76.9471	170.1997	11.9417
Story1	10	115	SYDISE Max	5.4687	80.2884	52.4821	162.8544	10.2354	3.9814
Story1	11	116	DEAD	6.4987	-3.1771	66.1259	5.7213	8.4186	0.9695

Story1	11	116	LR	0.6929	-0.2688	5.5005	0.4416	0.8939	0.1458
Story1	11	116	LIVE	0.0105	-0.7113	-0.3071	1.4611	0.0372	-0.0873
Story1	11	116	SXDISE Max	88.7122	64.0101	47.0401	128.1257	168.4392	13.9828
Story1	11	116	SYDISE Max	4.9839	97.4069	69.7059	195.8435	9.6352	8.1926
Story1	12	30	DEAD	-8.4446	-2.0443	71.2393	2.7613	-9.2566	-1.0149
Story1	12	30	LR	-0.8688	-0.1181	3.9424	0.1131	-0.9525	-0.1406
Story1	12	30	LIVE	0.0386	-0.3066	0.3868	0.6269	0.0707	0.0378
Story1	12	30	SXDISE Max	67.1555	118.6639	30.0429	225.5026	142.8578	5.1009
Story1	12	30	SYDISE Max	3.8048	119.1165	8.5127	226.3535	8.2452	3.952
Base	13	31	DEAD	5.9899	11.1848	232.0559	-9.7294	-3.3168	-0.2001
Base	13	31	LR	-0.0866	0.0178	7.2212	-0.0236	-0.4111	0.0009
Base	13	31	LIVE	1.2113	7.0715	38.563	-6.3505	0.7514	-0.1073
Base	13	31	SXDISE Max	249.8169	250.0398	425.5057	478.6396	56.6182	17.5081
Base	13	31	SYDISE Max	36.1465	193.1333	85.3715	409.7221	11.2974	17.8838
Base	14	33	DEAD	3.2515	7.5905	205.3949	-5.0724	6.5629	0.0215
Base	14	33	LR	0.7159	-0.0152	5.0192	0.0063	0.6158	-0.0002
Base	14	33	LIVE	-1.6984	4.6522	28.2597	-3.3147	1.911	0.0184
Base	14	33	SXDISE Max	418.7263	202.285	97.9166	442.3846	110.5024	6.7987
Base	14	33	SYDISE Max	60.5463	245.1234	91.1444	545.1688	16.9098	1.9514
Base	15	35	DEAD	-2.2719	2.3257	121.6604	0.3036	-2.1811	-0.0074
Base	15	35	LR	-0.4557	-0.051	1.8773	0.0445	-0.1874	-0.0007
Base	15	35	LIVE	-1.3784	1.3922	9.5113	0.0655	-1.367	-0.0038
Base	15	35	SXDISE Max	401.1211	100.3451	86.8116	216.4552	110.904	6.7709
Base	15	35	SYDISE Max	59.7418	218.4203	119.2952	477.4476	25.2621	1.7039
Base	16	37	DEAD	11.0333	2.9318	133.7856	-0.5244	2.5332	-0.027
Base	16	37	LR	0.6139	-0.0388	2.2083	0.0264	0.1986	-0.0004
Base	16	37	LIVE	5.3353	1.7598	16.8965	-0.4166	1.1002	-0.0156
Base	16	37	SXDISE Max	457.5094	84.9502	59.2601	184.1681	98.9693	6.7487
Base	16	37	SYDISE Max	84.8799	218.8245	112.6093	477.4968	13.7137	1.9704
Base	17	39	DEAD	11.5326	12.1198	217.973	-9.8387	12.6775	-0.0269
Base	17	39	LR	-0.3705	0.0573	5.671	-0.0733	-0.4216	-0.0005
Base	17	39	LIVE	10.3046	7.2733	46.8545	-6.0255	11.136	-0.0128
Base	17	39	SXDISE Max	437.3356	200.6003	63.797	407.3354	124.1505	7.5
Base	17	39	SYDISE Max	82.1464	288.0818	96.355	587.1895	14.7183	2.2052
Base	18	41	DEAD	-27.6488	8.5522	176.8531	-7.0752	-21.4773	0.2138
Base	18	41	LR	-0.1962	-0.0208	6.3625	0.0108	0.2704	-0.0006
Base	18	41	LIVE	-14.2756	5.0573	30.8885	-4.2509	-14.3762	0.1195
Base	18	41	SXDISE Max	313.1655	245.8591	422.5677	451.8972	70.5331	14.3606
Base	18	41	SYDISE Max	73.7243	214.103	142.3265	429.688	37.4566	17.8161
Base	19	45	DEAD	3.1824	-5.3024	280.1469	6.4239	3.4747	0.0166
Base	19	45	LR	-0.1852	0.0127	8.5065	-0.0141	-0.1995	0.0007
Base	19	45	LIVE	3.9191	-3.7378	83.9915	4.4175	4.2581	0.005
Base	19	45	SXDISE Max	32.4122	115.8432	101.2648	194.5716	59.6614	7.1365
Base	19	45	SYDISE Max	8.8104	92.7171	27.3954	156.3082	17.1314	2.1048
Base	20	47	DEAD	-2.7214	-2.2373	243.0874	3.0626	-2.9573	0.0003
Base	20	47	LR	0.1152	0.0412	6.2115	-0.0466	0.125	0
Base	20	47	LIVE	-2.108	-1.7447	80.0644	2.2439	-2.2908	-0.0004
Base	20	47	SXDISE Max	37.2967	67.2594	82.5969	112.191	66.2577	7.1855
Base	20	47	SYDISE Max	10.7247	88.8314	35.2191	149.4403	19.3107	2.1204
Base	21	49	DEAD	0.0487	-0.9498	105.7802	1.6562	0.0552	0.0041
Base	21	49	LR	-0.0497	0.0595	2.2526	-0.0669	-0.054	0.0003
Base	21	49	LIVE	0.2986	-0.7835	27.0465	1.1983	0.3246	0.0006
Base	21	49	SXDISE Max	42.9715	41.1112	63.2116	69.0619	72.8392	7.1083
Base	21	49	SYDISE Max	12.6286	86.374	62.7148	145.9476	21.3543	2.0946

Base	22	51	DEAD	0.0119	-1.0826	106.2473	1.7953	0.0081	-0.0004
Base	22	51	LR	0.0488	0.0547	2.1486	-0.0623	0.0526	0.0001
Base	22	51	LIVE	-0.2325	-0.8604	27.9311	1.2832	-0.2527	-0.0007
Base	22	51	SXDISE Max	41.9822	33.6879	47.7101	56.9913	71.5685	7.2113
Base	22	51	SYDISE Max	12.4192	84.7624	65.8628	143.7398	21.0886	2.1246
Base	23	53	DEAD	2.3782	-1.9114	230.7124	2.6977	2.582	-0.0054
Base	23	53	LR	-0.1209	0.0378	5.9052	-0.0441	-0.1316	-0.0007
Base	23	53	LIVE	1.9338	-1.3621	83.9675	1.8308	2.102	-0.0001
Base	23	53	SXDISE Max	38.4091	56.1636	86.8463	93.9362	67.4226	7.3016
Base	23	53	SYDISE Max	11.2977	88.0475	81.4976	147.8422	19.8439	2.1514
Base	24	55	DEAD	-5.6979	-1.9925	181.5235	2.7864	-6.2096	0.0115
Base	24	55	LR	0.1687	0.0174	6.728	-0.0221	0.1812	0.0015
Base	24	55	LIVE	-4.0216	-1.2349	45.8418	1.6935	-4.3693	0.0003
Base	24	55	SXDISE Max	25.5112	102.9431	74.1166	174.4317	52.4288	7.2614
Base	24	55	SYDISE Max	8.3594	88.3949	30.1378	150.5068	15.9446	2.1394
Base	25	59	DEAD	7.4317	1.2773	153.4222	-0.7358	8.0704	0.0083
Base	25	59	LR	-0.0312	-0.018	2.3465	0.0191	-0.0339	0.0005
Base	25	59	LIVE	4.367	0.8825	43.0348	-0.6077	4.7423	0.0011
Base	25	59	SXDISE Max	56.6595	104.8144	50.6492	182.4815	105.7296	7.0425
Base	25	59	SYDISE Max	16.5244	82.6855	57.0912	145.4227	31.0169	2.0786
Base	26	61	DEAD	-3.3752	1.3033	265.4877	-0.7868	-3.6735	0.0055
Base	26	61	LR	0.0223	-0.0487	6.4576	0.0511	0.0239	0.0005
Base	26	61	LIVE	-2.0142	1.1213	95.9106	-0.8715	-2.1902	0.0004
Base	26	61	SXDISE Max	67.8068	61.1542	96.3085	105.5633	118.3052	7.0977
Base	26	61	SYDISE Max	19.9026	80.8312	58.6259	140.8073	34.7393	2.093
Base	27	63	DEAD	1.4828	1.2403	232.4439	-0.7293	1.6067	-0.0022
Base	27	63	LR	-0.02	-0.1158	6.5283	0.1232	-0.0221	-0.0005
Base	27	63	LIVE	1.0676	1.1375	79.7121	-0.8902	1.1599	0.0001
Base	27	63	SXDISE Max	66.517	37.6377	69.955	65.4303	116.8498	7.1484
Base	27	63	SYDISE Max	19.521	79.142	39.6568	138.1118	34.3153	2.1089
Base	28	65	DEAD	-1.4029	1.8313	235.2737	-1.377	-1.5306	0.0003
Base	28	65	LR	0.0245	-0.0715	7.0897	0.0744	0.026	0.0003
Base	28	65	LIVE	-1.0639	1.3812	83.2863	-1.154	-1.1557	-0.0013
Base	28	65	SXDISE Max	66.7746	32.1809	59.2562	55.4401	117.1269	7.1654
Base	28	65	SYDISE Max	19.5945	81.573	25.1545	140.3868	34.3982	2.1156
Base	29	67	DEAD	3.4338	2.2164	291.319	-1.7923	3.7259	0.008
Base	29	67	LR	-0.0592	0.0108	6.4165	-0.0149	-0.065	0.0011
Base	29	67	LIVE	2.4394	1.5613	118.6748	-1.3482	2.652	0.0001
Base	29	67	SXDISE Max	67.4195	52.0872	48.9693	89.5357	117.8479	7.2236
Base	29	67	SYDISE Max	19.7832	82.4391	41.4762	141.8022	34.6083	2.1302
Base	30	69	DEAD	-7.6309	1.2746	210.4986	-0.7686	-8.3093	0.0033
Base	30	69	LR	0.1222	-0.0155	6.3721	0.0135	0.1308	0.0001
Base	30	69	LIVE	-5.1149	0.8995	62.1686	-0.6275	-5.5572	0.0014
Base	30	69	SXDISE Max	54.0713	96.3348	81.6585	167.1434	103.0881	7.1753
Base	30	69	SYDISE Max	15.7739	81.6673	32.695	143.1639	30.2272	2.1164
Base	31	73	DEAD	7.09	-3.0643	186.0428	3.9777	7.6895	-0.0016
Base	31	73	LR	-0.0551	0.0086	3.9445	-0.0101	-0.0602	-0.0002
Base	31	73	LIVE	4.2573	-1.6105	52.7261	2.0999	4.6218	-0.0005
Base	31	73	SXDISE Max	96.4055	107.2311	222.0754	184.7206	179.4981	6.8403
Base	31	73	SYDISE Max	28.287	85.0756	105.1172	147.9735	52.7041	2.0199
Base	32	75	DEAD	-4.319	-4.4232	272.1274	5.4422	-4.7132	0.0023
Base	32	75	LR	0.0319	0.1223	10.6692	-0.1339	0.0336	-0.0002
Base	32	75	LIVE	-2.6799	-2.7895	82.9691	3.3779	-2.9159	0.0012
Base	32	75	SXDISE Max	113.6272	60.7664	102.4113	105.3434	198.5113	6.9175

Base	32	75	SYDISE Max	33.3347	80.7823	99.2842	140.8225	58.3136	2.0405
Base	33	77	DEAD	1.4421	-6.2388	170.0352	7.4117	1.5501	0.0243
Base	33	77	LR	-0.0186	0.1805	6.931	-0.197	-0.0214	0.0026
Base	33	77	LIVE	0.971	-4.0851	39.3817	4.7846	1.0535	0.0026
Base	33	77	SXDISE Max	110.3032	32.3973	97.0346	59.7265	195.1699	7.0912
Base	33	77	SYDISE Max	32.3644	66.6166	106.9701	124.4487	57.3311	2.093
Base	34	79	DEAD	-0.8196	-5.8174	209.2179	6.9423	-0.9054	0.0232
Base	34	79	LR	-0.0101	0.1015	10.4205	-0.1122	-0.0124	0.0025
Base	34	79	LIVE	-0.3618	-3.5018	63.0059	4.1502	-0.3929	0.0029
Base	34	79	SXDISE Max	114.1909	30.5919	77.9708	53.6914	199.6335	7.1893
Base	34	79	SYDISE Max	33.5336	77.1609	46.7781	135.5388	58.6634	2.1224
Base	35	81	DEAD	1.9635	-9.1494	158.8465	10.5522	2.1232	-0.0252
Base	35	81	LR	0.0498	-0.1277	3.9327	0.1354	0.0529	-0.0027
Base	35	81	LIVE	1.4201	-5.1522	67.624	5.9443	1.5449	-0.0027
Base	35	81	SXDISE Max	112.9313	46.6997	69.5012	83.6231	198.3542	7.2017
Base	35	81	SYDISE Max	33.1275	69.7879	53.6123	127.9726	58.2548	2.1258
Base	36	83	DEAD	-4.849	-4.5456	127.8604	5.5594	-5.283	-0.025
Base	36	83	LR	-0.1033	0.0327	3.4413	-0.0382	-0.1136	-0.0028
Base	36	83	LIVE	-3.2647	-2.878	37.3838	3.4767	-3.5452	-0.0044
Base	36	83	SXDISE Max	88.9719	95.1468	141.5333	165.558	172.1613	6.632
Base	36	83	SYDISE Max	26.0675	81.778	49.0949	143.1041	50.5001	1.9738
Base	37	87	DEAD	4.5212	-1.9102	96.5169	2.7224	4.8946	0.0003
Base	37	87	LR	-0.0553	-0.0033	1.2309	0.0027	-0.0604	-0.0003
Base	37	87	LIVE	2.5105	-0.9801	15.0566	1.4147	2.7208	0.0022
Base	37	87	SXDISE Max	108.8848	95.5372	75.8365	171.8032	210.5736	6.6993
Base	37	87	SYDISE Max	31.7245	75.958	150.7505	137.9899	61.646	1.9853
Base	38	89	DEAD	-3.2417	-1.827	100.275	2.6177	-3.5544	0.0158
Base	38	89	LR	0.0334	-0.131	2.3749	0.1412	0.0353	0.0009
Base	38	89	LIVE	-1.8182	-0.794	16.9146	1.2082	-1.9824	0.0045
Base	38	89	SXDISE Max	133.8738	55.5504	137.5718	99.8216	237.3584	6.6807
Base	38	89	SYDISE Max	39.3891	68.4436	158.3874	127.3582	69.7886	2.0167
Base	39	91	DEAD	0.7494	-0.4644	17.1128	0.9909	0.7878	0.0181
Base	39	91	LR	-0.006	-0.0378	0.1519	0.0278	-0.0071	0.0018
Base	39	91	LIVE	0.3245	-0.1741	-2.7303	0.4828	0.3471	0.0059
Base	39	91	SXDISE Max	140.6704	14.5583	51.1249	36.2606	243.3116	8.1519
Base	39	91	SYDISE Max	41.4717	31.9134	15.7119	80.2861	71.6969	2.5188
Base	40	93	DEAD	-0.624	-0.4631	19.5245	1.1201	-0.6956	-0.0025
Base	40	93	LR	-0.0395	-0.1829	1.4314	0.1962	-0.0429	-0.0011
Base	40	93	LIVE	-0.0944	0.2293	-3.653	0.0954	-0.1057	-0.0013
Base	40	93	SXDISE Max	137.58	27.3103	54.8917	50.0898	238.5621	3.234
Base	40	93	SYDISE Max	40.4948	68.4385	86.8888	125.8716	70.2228	1.0692
Base	41	95	DEAD	0.9436	-0.2699	22.3634	0.807	1.0132	0.0259
Base	41	95	LR	0.1917	-0.0268	1.71	0.0169	0.2087	0.0028
Base	41	95	LIVE	0.0799	-0.0467	0.123	0.3808	0.085	0.0032
Base	41	95	SXDISE Max	136.9961	17.4358	28.6843	44.4723	237.2191	6.524
Base	41	95	SYDISE Max	40.3319	29.3449	8.5839	74.8333	69.8354	2.8349
Base	42	97	DEAD	-2.2346	-0.6836	16.2309	1.3591	-2.427	-0.0137
Base	42	97	LR	-0.2864	-0.0153	1.3516	0.0138	-0.3091	-0.0019
Base	42	97	LIVE	-0.4002	0.0695	-2.4985	0.2733	-0.4342	-0.0006
Base	42	97	SXDISE Max	104.1626	84.0314	35.6048	153.2608	201.0465	5.6978
Base	42	97	SYDISE Max	30.6399	72.567	67.196	132.8903	59.1574	2.2143

Tabla 16 Reacciones en cada nodo

16 CONCLUSIONES Y RECOMENDACIONES

CONCLUSIONES

• En la estructura analizada en este informe se evidencian índices de sobre esfuerzo mayores a la unidad, esto no quiere decir que la estructura no esté funcionando adecuadamente bajo las cargas de servicio actuales, sino que en algún evento en que los elementos estructurales se acerquen a sus estados limites la estructura puede presentar mecanismos de falla no deseables, debido a esto, se recomienda realizar el reforzamiento estructural de la edificación.

• Los índices de flexibilidad de la estructura se encuentran en el rango aceptado por la normatividad vigente ya que estos no superan el valor límite de 1.5 establecido en el capítulo A.10 de la NSR10.

• Las columnas presentan índices de sobre esfuerzos muy altos por ello es necesario reforzar la sección.

• Para reducir la vulnerabilidad sísmica de la estructura se propone mejorar el comportamiento del sistema estructural realizando un aumento de sección de las columnas para así generar mayor rigidez en el sistema, es decir realizar un recalce de los elementos estructurales para así aumentar la sección y cumplir con las solicitaciones sísmicas requeridas.

• Para las patologías menores se recomienda realizar un mantenimiento periódico en la estructura con el fin de repararlas, subsanarlas y preverlas, el objetivo principal de estas actividades es el de no permitir un avance del deterioro de la estructura

RECOMENDACIONES

• Dado lo anterior se recomienda realizar el reforzamiento estructural de la edificación, por lo cual se proponen los siguientes procedimientos de reforzamiento de los elementos, El diseño del reforzamiento estructural deberá precisar sobre los procedimientos expuestos.

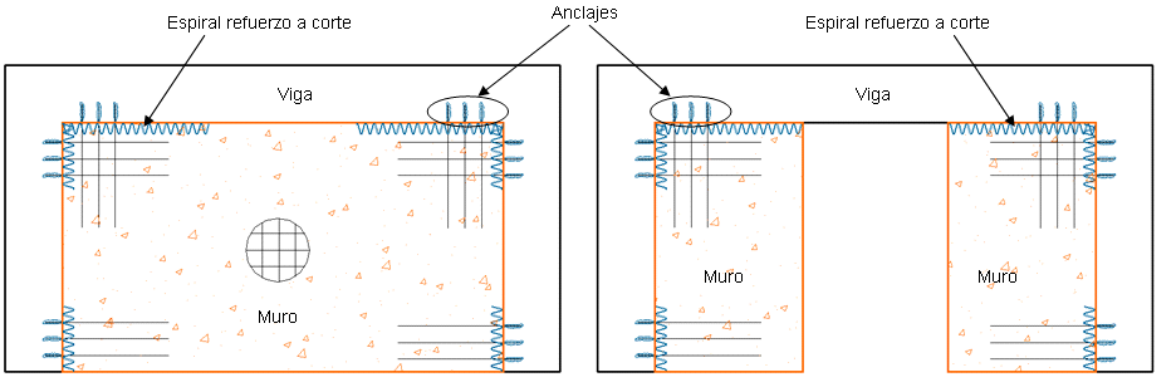
MUROS ESTRUCTURALES EN CONCRETO REFORZADO

Los muros estructurales son una alternativa viable y comúnmente utilizada en el reforzamiento de estructuras, ya que estos elementos distribuidos adecuadamente, son eficientes para reducir los desplazamientos laterales de la estructura ante un evento sísmico,
por su gran rigidez y capacidad a flexión en el eje fuerte. El diseño se concibe principalmente para que tomen fuerzas sísmicas y no para cargas verticales, proporcionándoles el confinamiento adecuado con el objetivo de mejorar la ductilidad de los mismos.

Los lugares elegidos para la localización de estos muros estructurales, se debe realizar de forma tal que reemplacen algunos de los muros de mampostería existentes (muros no estructurales), conservando así la distribución de los espacios al interior de la edificación. Los muros serán construidos desde nivel de cimentación a nivel de cubierta, garantizando la continuidad de los mismos y la no presencia de un mecanismo de falla de entrepiso no deseado.

La disposición de los muros estructurales además de aumentar la rigidez lateral, permiten una disminución en las derivas, asegurando que los elementos no estructurales no vayan a estar con solicitaciones excesivas de desplazamiento, garantizando así una mejor estabilidad de la edificación.

REFORZAMIENTO CON MUROS ESTRUCTURALES EN CONCRETO

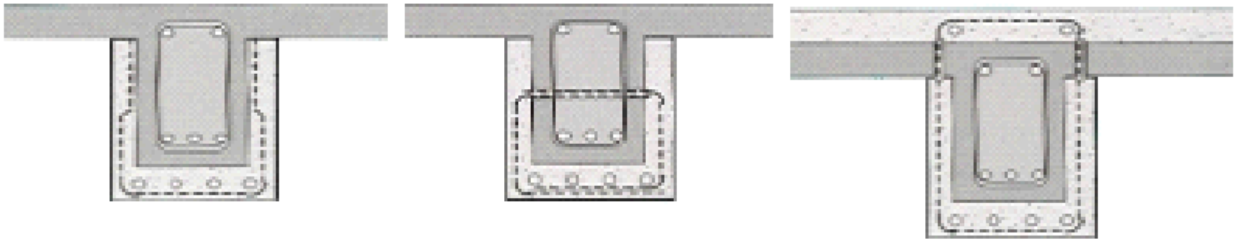


Reforzamiento con muros entre columnas

Reforzamiento con muros entre extremos de columnas

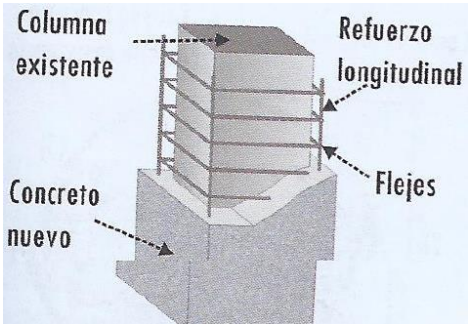
AUMENTO EN SECCIONES O RECALCE DE VIGAS

El recalce de las vigas se elaborará en su mayoría aumentando la dimensión vertical (altura) de las vigas en concreto reforzado, esta intervención se calcula para incrementar la resistencia a flexión y resistencia a cortante. El aumento de la sección se efectuará en los elementos con índices de sobreesfuerzo superior a 1.0 y en los cuales su intervención no modifica la condición visual o funcional actual de la estructura, cuando la alternativa de reforzamiento con platinas es insuficiente.



AUMENTO EN SECCIONES O RECALCE DE COLUMNAS

El recalce de las columnas se elaborará aumentando las dimensiones en toda el área de las columnas en concreto reforzado, esta intervención se calcula para incrementar la resistencia a flexión y resistencia a cortante. El aumento de la sección se efectuará en los elementos con índices de sobreesfuerzo superior a 1.0 y en los cuales su intervención no afecte considerablemente la condición visual o funcional actual de la estructura, cuando la alternativa de reforzamiento con platinas es insuficiente.

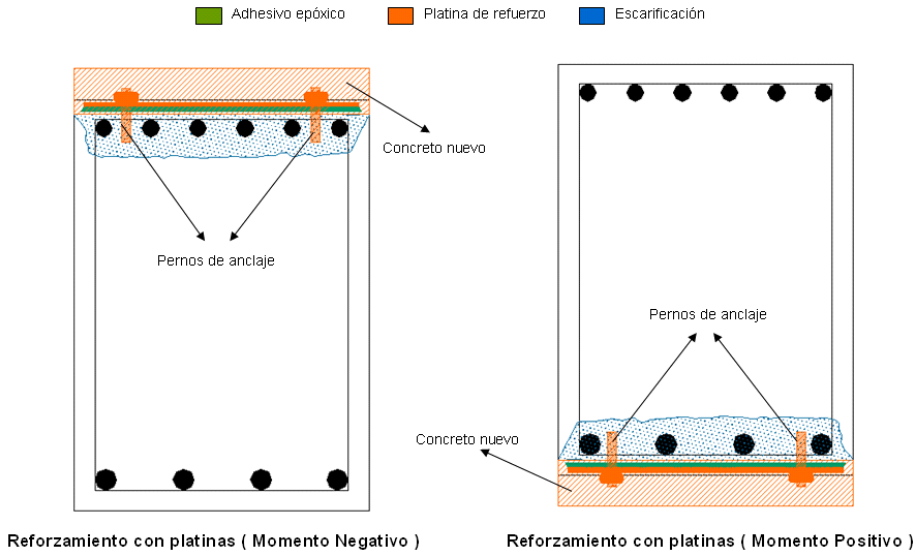


PLATINAS METÁLICAS (FLEXIÓN EN VIGAS)

Las platinas metálicas se emplearán en vigas, permitiendo incrementar la resistencia a momento positivo ó negativo. Su utilización se hará en zonas donde arquitectónicamente no sea conveniente el aumento de las dimensiones de los elementos. Las láminas metálicas se fijan en las vigas a intervenir con adhesivo epóxico y pernos (en la etapa de instalación garantizando la adherencia del epóxico con la superficie de concreto). Si debido a la densidad del refuerzo existente (varillas de acero) que no permita el adecuado anclaje de los pernos, la adherencia recaerá exclusivamente en el epóxico, mediante un apuntalamiento suficiente durante la etapa de instalación y el fraguado del mismo. Esta intervención no

modifica la condición visual o funcional actual de la estructura.

REFORZAMIENTO EN VIGAS A MOMENTO CON PLATINAS METÁLICAS

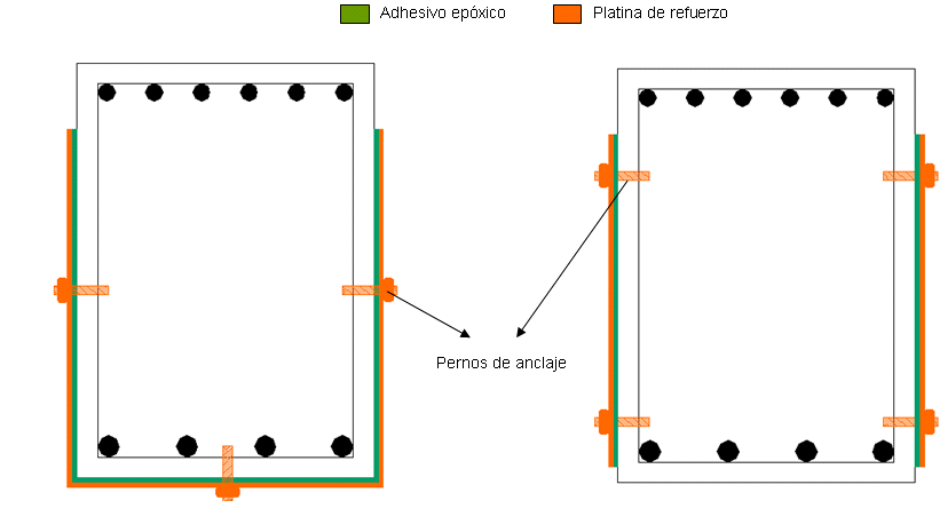


Reforzamiento con platinas (Momento Negativo) **Reforzamiento con platinas (Momento Positivo)**

ANILLOS DE PLACAS METÁLICAS (CORTANTE EN VIGAS)

Los anillos de placas metálicas se usarán para aumentar la resistencia al corte específicamente en las vigas. Las láminas metálicas se fijan a los elementos a intervenir con adhesivo epóxico y pernos de anclaje. Cuando exista simultaneidad en una zona de la viga para ser reforzada a corte y a flexión, la rehabilitación a cortante no se hará en el contorno de la viga sino solamente con platinas ubicadas en las caras laterales del elemento, evitando la superposición de los 2 tipos de reforzamiento.

REFORZAMIENTO EN VIGAS A CORTANTE CON PLATINAS METÁLICAS



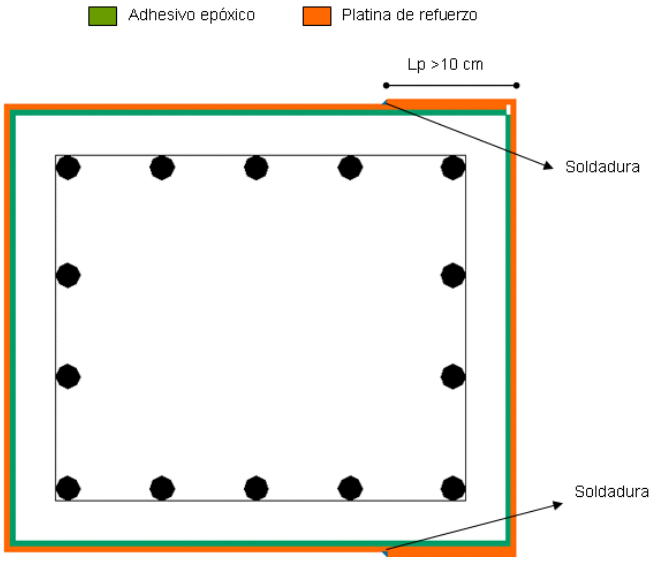
Reforzamiento con platinas en 3 caras (Cortante)

Reforzamiento con platinas en 2 caras (Cortante)

ENCHAQUETAMIENTO EN COLUMNAS

El enchaquetamiento consiste en placas metálicas dispuestas alrededor de la sección de la columna, adheridas a la superficie de concreto mediante un epóxico. Estas permiten mejorar el comportamiento a flexo-compresión de la columna a reforzar, preservando los espacios interiores manteniendo de esta forma la proyección arquitectónica.

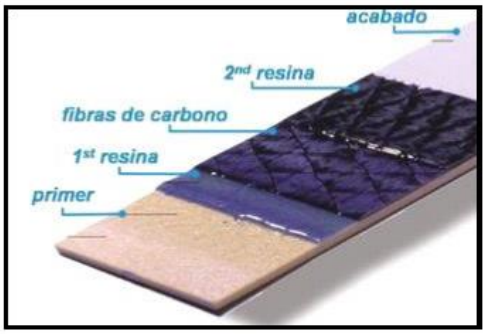
ENCHAQUETAMIENTO DE COLUMNAS CON PLATINAS METÁLICAS



FIBRA DE CARBONO

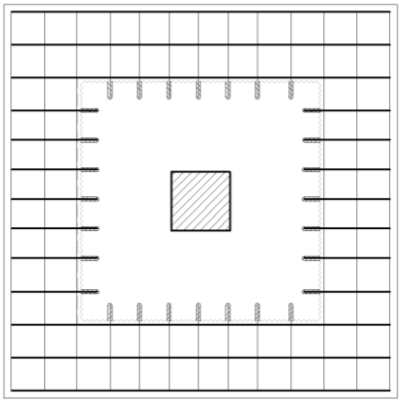
Otro sistema de reforzamiento disponible en nuestro medio, es el de láminas de fibras de carbono. Una o varias capas de láminas son colocadas alrededor o debajo de las secciones de concreto a reforzar, y junto a un sistema adhesivo epóxico especial, se logra una total adherencia a la superficie de concreto, el resultado es una capa externa de reforzamiento que ayuda a soportar las cargas del elemento, garantiza un confinamiento y previene deflexiones excesivas.

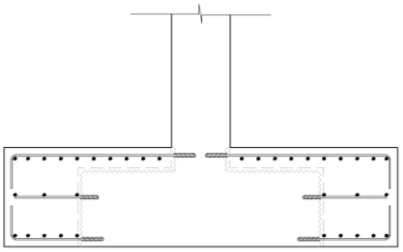
Las fibras de carbono se evalúan para incrementar la resistencia a momento positivo, negativo y resistencia a cortante, además su uso no modifica la condición visual o funcional de las estructuras.



RECALCE DE LA CIMENTACIÓN "ZAPATAS"

Es importante cuando se realiza algún tipo de reforzamiento verificar el diseño de la cimentación antigua de la estructura. En el caso en que sea necesario mejorar el comportamiento a flexión y a cortante con base en la capacidad portante del terreno, se hará el recalce respectivo ya sea suministrando el refuerzo faltante y/o aumentando la sección de la cimentación.

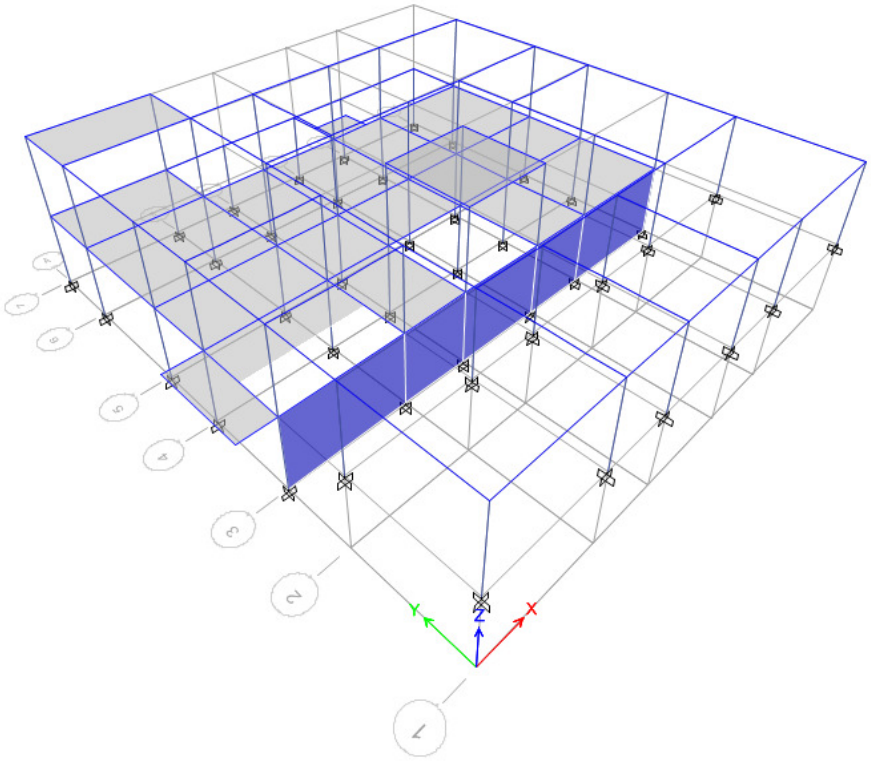




ANEXO 1 - REPORTE ETABS

ETABS® 2015

Integrated Building Design Software



User Report 1

Model File: MOD-PY199-XXX-V00, Revision 0

19/05/2015

Table of Contents

List of Tables

1 Structure Data

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

1.1 Mass

Table 1.1 - Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault	Load Pattern	Multiplier
MsSrc1	No	Yes	Yes	Yes	No	Yes	Yes	DEAD	1
MsSrc1	No	Yes	Yes	Yes	No	Yes	Yes	LR	0.333
MsSrc1	No	Yes	Yes	Yes	No	Yes	Yes	LIVE	0.333

Table 1.2 - Mass Summary by Story

Story	UX kg	UY kg	UZ kg
Story2	292543.25	292543.25	0
Story1	382728.71	382728.71	0
Base	27378.16	27378.16	0

1.2 Groups

Table 1.3 - Group Definitions

Name	Color
All	Yellow

2 Properties

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

2.1 Materials

Table 2.1 - Material Properties - Summary

Name	Type	E MPa	v	Unit Weight kN/m³	Design Strengths
A615Gr60	Rebar	199947.98	0.3	76.9729	Fy=413.69 MPa, Fu=620.53 MPa
CONC 14.5	Concrete	17897.06	0.2	24	Fc=14.5 MPa
PESO0	Concrete	1	0.2	0	Fc=1 MPa

Table 2.2 - Material Properties - Concrete

Name	E MPa	v	α 1/C	G MPa	Unit Weight kN/m³	Unit Mass kg/m³	Fc MPa	Lightweight?
CONC 14.5	17897.06	0.2	9.9E-06	7457.11	24	2447.319	14.5	No
PESO0	1	0.2	9.9E-06	0.42	0	0	1	No

Table 2.3 - Material Properties - Rebar

Name	E MPa	α 1/C	Unit Weight kN/m³	Unit Mass kg/m³	Fy MPa	Fu MPa
A615Gr60	199947.98	1.17E-05	76.9729	7849.047	413.69	620.53

2.2 Frame Sections

Table 2.4 - Frame Sections - Summary

Name	Material	Shape
C30X30	CONC 14.5	Concrete Rectangular
V15X30	CONC 14.5	Concrete Rectangular
V30X30	CONC 14.5	Concrete Rectangular
V30X35	CONC 14.5	Concrete Rectangular
VG-10X10	PESO0	Concrete Rectangular

Table 2.5 - Frame Sections (Part 1 of 2)

Name	Material	Shape	t3 mm	t2 mm	Area cm²	AS2 cm²	AS3 cm²	J cm⁴	I22 cm⁴	I33 cm⁴
C30X30	CONC 14.5	Concrete Rectangular	300	300	900	750	750	114075	67500	67500
V15X30	CONC 14.5	Concrete Rectangular	300	150	450	375	375	23174.1	8437.5	33750
V30X30	CONC 14.5	Concrete Rectangular	300	300	900	750	750	114075	67500	67500
V30X35	CONC 14.5	Concrete Rectangular	350	300	1050	875	875	152551.3	78750	107187.5
VG-10X10	PESO0	Concrete Rectangular	100	100	100	83.3	83.3	1408.3	833.3	833.3

Table 2.5 - Frame Sections (Part 2 of 2)

Name	S22 cm³	S33 cm³	Z22 cm³	Z33 cm³	R22 mm	R33 mm
C30X30	4500	4500	6750	6750	86.6	86.6
V15X30	1125	2250	1687.5	3375	43.3	86.6
V30X30	4500	4500	6750	6750	86.6	86.6
V30X35	5250	6125	7875	9187.5	86.6	101
VG-10X10	166.7	166.7	250	250	28.9	28.9

2.3 Shell Sections

Table 2.6 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness mm
2dir peso 0	Slab	Shell-Thin	PESO0	200
MURO20	Wall	Shell-Thin	CONC 14.5	200
PESO02DIR	Slab	Shell-Thin	CONC 14.5	200

2.4 Reinforcement Sizes

Table 2.7 - Reinforcing Bar Sizes

Name	Diameter mm	Area mm²
10	10	79
20	20	314

3 Assignments

This chapter provides a listing of the assignments applied to the model.

3.1 Joint Assignments

Table 3.1 - Joint Assignments - Summary

Story	Label	Unique Name	Diaphragm	Restraints
Story2	1	2	From Area	
Story2	2	4	From Area	
Story2	3	6	From Area	
Story2	4	8	From Area	
Story2	5	10	From Area	
Story2	6	12	From Area	
Story2	7	18	From Area	
Story2	8	20	From Area	
Story2	9	22	From Area	
Story2	10	24	From Area	
Story2	11	26	From Area	
Story2	12	28	From Area	
Story2	13	32	From Area	
Story2	14	34	From Area	
Story2	15	36	From Area	
Story2	16	38	From Area	
Story2	17	40	From Area	
Story2	18	42	From Area	
Story2	19	46	From Area	
Story2	20	48	From Area	
Story2	21	50	From Area	
Story2	22	52	From Area	
Story2	23	54	From Area	
Story2	24	56	From Area	
Story2	25	60	From Area	
Story2	26	62	From Area	
Story2	27	64	From Area	
Story2	28	66	From Area	
Story2	29	68	From Area	
Story2	30	70	From Area	
Story2	31	74	From Area	
Story2	32	76	From Area	
Story2	33	78	From Area	
Story2	34	80	From Area	
Story2	35	82	From Area	
Story2	36	84	From Area	
Story2	37	88	From Area	
Story2	38	90	From Area	
Story2	59	96	From Area	
Story2	60	98	From Area	
Story2	61	109	From Area	

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Story2	62	110	From Area	
Story2	63	111	From Area	
Story2	64	112	From Area	
Story2	65	133	From Area	
Story2	66	134	From Area	
Story2	67	135	From Area	
Story2	68	136	From Area	
Story2	69	137	From Area	
Story2	70	138	From Area	
Story2	71	139	From Area	
Story2	72	140	From Area	
Story2	73	141	From Area	
Story2	74	142	From Area	
Story2	76	144	From Area	
Story2	77	145	From Area	
Story2	78	146	From Area	
Story2	79	147	From Area	
Story2	80	148	From Area	
Story2	81	149	From Area	
Story2	82	150	From Area	
Story2	83	151	From Area	
Story2	84	152	From Area	
Story2	85	153	From Area	
Story2	86	154	From Area	
Story2	87	155	From Area	
Story2	88	156	From Area	
Story2	89	157	From Area	
Story2	90	158	From Area	
Story2	91	159	From Area	
Story2	92	160	From Area	
Story2	93	161	From Area	
Story2	94	162	From Area	
Story2	95	163	From Area	
Story2	96	164	From Area	
Story2	97	165	From Area	
Story2	98	166	From Area	
Story2	99	167	From Area	
Story2	100	168	From Area	
Story2	101	169	From Area	
Story2	102	170	From Area	
Story2	103	171	From Area	
Story2	104	172	From Area	
Story2	105	173	From Area	
Story2	106	174	From Area	
Story2	107	175	From Area	

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Story2	108	176	From Area	
Story2	109	177	From Area	
Story2	110	178	From Area	
Story2	111	179	From Area	
Story2	112	180	From Area	
Story2	113	181	From Area	
Story2	114	182	From Area	
Story1	1	15	From Area	UX; UY; UZ; RX; RY; RZ
Story1	2	101	From Area	UX; UY; UZ; RX; RY; RZ
Story1	3	103	From Area	UX; UY; UZ; RX; RY; RZ
Story1	4	105	From Area	UX; UY; UZ; RX; RY; RZ
Story1	5	107	From Area	UX; UY; UZ; RX; RY; RZ
Story1	6	16	From Area	UX; UY; UZ; RX; RY; RZ
Story1	7	29	From Area	UX; UY; UZ; RX; RY; RZ
Story1	8	113	From Area	UX; UY; UZ; RX; RY; RZ
Story1	9	114	From Area	UX; UY; UZ; RX; RY; RZ
Story1	10	115	From Area	UX; UY; UZ; RX; RY; RZ
Story1	11	116	From Area	UX; UY; UZ; RX; RY; RZ
Story1	12	30	From Area	UX; UY; UZ; RX; RY; RZ
Story1	13	43	From Area	
Story1	14	117	From Area	
Story1	15	118	From Area	
Story1	16	119	From Area	
Story1	17	120	From Area	
Story1	18	44	From Area	
Story1	19	57	From Area	
Story1	20	121	From Area	
Story1	21	122	From Area	
Story1	22	123	From Area	
Story1	23	124	From Area	
Story1	24	58	From Area	
Story1	25	71	From Area	
Story1	26	125	From Area	
Story1	27	126	From Area	
Story1	28	127	From Area	
Story1	29	128	From Area	
Story1	30	72	From Area	
Story1	31	85	From Area	
Story1	32	129	From Area	
Story1	33	130	From Area	
Story1	34	131	From Area	
Story1	35	132	From Area	
Story1	36	86	From Area	
Story1	37	99	From Area	
Story1	38	102	From Area	

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Story1	39	104	From Area	
Story1	40	106	From Area	
Story1	41	108	From Area	
Story1	42	100	From Area	
Story1	45	19	From Area	
Story1	46	21	From Area	
Story1	49	9	From Area	
Story1	50	11	From Area	
Story1	43	1	From Area	
Story1	44	3	From Area	
Story1	47	5	From Area	
Story1	48	7	From Area	
Base	13	31	From Area	UX; UY; UZ; RX; RY; RZ
Base	14	33	From Area	UX; UY; UZ; RX; RY; RZ
Base	15	35	From Area	UX; UY; UZ; RX; RY; RZ
Base	16	37	From Area	UX; UY; UZ; RX; RY; RZ
Base	17	39	From Area	UX; UY; UZ; RX; RY; RZ
Base	18	41	From Area	UX; UY; UZ; RX; RY; RZ
Base	19	45	From Area	UX; UY; UZ; RX; RY; RZ
Base	20	47	From Area	UX; UY; UZ; RX; RY; RZ
Base	21	49	From Area	UX; UY; UZ; RX; RY; RZ
Base	22	51	From Area	UX; UY; UZ; RX; RY; RZ
Base	23	53	From Area	UX; UY; UZ; RX; RY; RZ
Base	24	55	From Area	UX; UY; UZ; RX; RY; RZ
Base	25	59	From Area	UX; UY; UZ; RX; RY; RZ
Base	26	61	From Area	UX; UY; UZ; RX; RY; RZ
Base	27	63	From Area	UX; UY; UZ; RX; RY; RZ
Base	28	65	From Area	UX; UY; UZ; RX; RY; RZ
Base	29	67	From Area	UX; UY; UZ; RX; RY; RZ
Base	30	69	From Area	UX; UY; UZ; RX; RY; RZ
Base	31	73	From Area	UX; UY; UZ; RX; RY; RZ
Base	32	75	From Area	UX; UY; UZ; RX; RY; RZ
Base	33	77	From Area	UX; UY; UZ; RX; RY; RZ
Base	34	79	From Area	UX; UY; UZ; RX; RY; RZ
Base	35	81	From Area	UX; UY; UZ; RX; RY; RZ
Base	36	83	From Area	UX; UY; UZ; RX; RY; RZ
Base	37	87	From Area	UX; UY; UZ; RX; RY; RZ
Base	38	89	From Area	UX; UY; UZ; RX; RY; RZ
Base	39	91	From Area	UX; UY; UZ; RX; RY; RZ
Base	40	93	From Area	UX; UY; UZ; RX; RY; RZ
Base	41	95	From Area	UX; UY; UZ; RX; RY; RZ
Base	42	97	From Area	UX; UY; UZ; RX; RY; RZ

Table 3.2 - Joint Assignments - Restraints

Tower	Story	Label	Unique Name	UX	UY	UZ	RX	RY	RZ
	Story1	1	15	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	2	101	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	3	103	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	4	105	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	5	107	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	6	16	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	7	29	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	8	113	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	9	114	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	10	115	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	11	116	Yes	Yes	Yes	Yes	Yes	Yes
	Story1	12	30	Yes	Yes	Yes	Yes	Yes	Yes
	Base	13	31	Yes	Yes	Yes	Yes	Yes	Yes
	Base	14	33	Yes	Yes	Yes	Yes	Yes	Yes
	Base	15	35	Yes	Yes	Yes	Yes	Yes	Yes
	Base	16	37	Yes	Yes	Yes	Yes	Yes	Yes
	Base	17	39	Yes	Yes	Yes	Yes	Yes	Yes
	Base	18	41	Yes	Yes	Yes	Yes	Yes	Yes
	Base	19	45	Yes	Yes	Yes	Yes	Yes	Yes
	Base	20	47	Yes	Yes	Yes	Yes	Yes	Yes
	Base	21	49	Yes	Yes	Yes	Yes	Yes	Yes
	Base	22	51	Yes	Yes	Yes	Yes	Yes	Yes
	Base	23	53	Yes	Yes	Yes	Yes	Yes	Yes
	Base	24	55	Yes	Yes	Yes	Yes	Yes	Yes
	Base	25	59	Yes	Yes	Yes	Yes	Yes	Yes
	Base	26	61	Yes	Yes	Yes	Yes	Yes	Yes
	Base	27	63	Yes	Yes	Yes	Yes	Yes	Yes
	Base	28	65	Yes	Yes	Yes	Yes	Yes	Yes
	Base	29	67	Yes	Yes	Yes	Yes	Yes	Yes
	Base	30	69	Yes	Yes	Yes	Yes	Yes	Yes
	Base	31	73	Yes	Yes	Yes	Yes	Yes	Yes
	Base	32	75	Yes	Yes	Yes	Yes	Yes	Yes
	Base	33	77	Yes	Yes	Yes	Yes	Yes	Yes
	Base	34	79	Yes	Yes	Yes	Yes	Yes	Yes
	Base	35	81	Yes	Yes	Yes	Yes	Yes	Yes
	Base	36	83	Yes	Yes	Yes	Yes	Yes	Yes
	Base	37	87	Yes	Yes	Yes	Yes	Yes	Yes
	Base	38	89	Yes	Yes	Yes	Yes	Yes	Yes
	Base	39	91	Yes	Yes	Yes	Yes	Yes	Yes
	Base	40	93	Yes	Yes	Yes	Yes	Yes	Yes
	Base	41	95	Yes	Yes	Yes	Yes	Yes	Yes
	Base	42	97	Yes	Yes	Yes	Yes	Yes	Yes

3.2 Frame Assignments

Table 3.3 - Frame Assignments - Summary

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story2	C43	73	Column	3600	C30X30	N/A	3	No
Story2	C44	75	Column	3600	C30X30	N/A	3	No
Story2	C45	77	Column	3600	C30X30	N/A	3	No
Story2	C46	79	Column	3600	C30X30	N/A	3	No
Story2	C47	81	Column	3600	C30X30	N/A	3	No
Story2	C48	83	Column	3600	C30X30	N/A	3	No
Story2	C49	95	Column	3600	C30X30	N/A	3	No
Story2	C50	97	Column	3600	C30X30	N/A	3	No
Story2	C51	99	Column	3600	C30X30	N/A	3	No
Story2	C52	101	Column	3600	C30X30	N/A	3	No
Story2	C53	103	Column	3600	C30X30	N/A	3	No
Story2	C54	105	Column	3600	C30X30	N/A	3	No
Story2	C55	117	Column	3600	C30X30	N/A	3	No
Story2	C56	119	Column	3600	C30X30	N/A	3	No
Story2	C57	121	Column	3600	C30X30	N/A	3	No
Story2	C58	123	Column	3600	C30X30	N/A	3	No
Story2	C59	125	Column	3600	C30X30	N/A	3	No
Story2	C60	127	Column	3600	C30X30	N/A	3	No
Story2	C61	139	Column	3600	C30X30	N/A	3	No
Story2	C62	141	Column	3600	C30X30	N/A	3	No
Story2	C63	143	Column	3600	C30X30	N/A	3	No
Story2	C64	145	Column	3600	C30X30	N/A	3	No
Story2	C65	147	Column	3600	C30X30	N/A	3	No
Story2	C66	149	Column	3600	C30X30	N/A	3	No
Story2	C67	161	Column	3600	C30X30	N/A	3	No
Story2	C68	163	Column	3600	C30X30	N/A	3	No
Story2	C69	165	Column	3600	C30X30	N/A	3	No
Story2	C70	167	Column	3600	C30X30	N/A	3	No
Story2	C71	169	Column	3600	C30X30	N/A	3	No
Story2	C72	171	Column	3600	C30X30	N/A	3	No
Story2	C73	183	Column	3600	C30X30	N/A	3	No
Story2	C74	185	Column	3600	C30X30	N/A	3	No
Story2	C75	187	Column	3600	C30X30	N/A	3	No
Story2	C76	189	Column	3600	C30X30	N/A	3	No
Story2	C77	191	Column	3600	C30X30	N/A	3	No
Story2	C78	193	Column	3600	C30X30	N/A	3	No
Story2	C79	205	Column	3600	C30X30	N/A	3	No
Story2	C80	207	Column	3600	C30X30	N/A	3	No
Story1	C55	116	Column	3300	C30X30	N/A	3	No
Story1	C56	118	Column	3300	C30X30	N/A	3	No
Story1	C57	120	Column	3300	C30X30	N/A	3	No
Story1	C58	122	Column	3300	C30X30	N/A	3	No
Story1	C59	124	Column	3300	C30X30	N/A	3	No

Table 3.3 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story1	C60	126	Column	3300	C30X30	N/A	3	No
Story1	C61	138	Column	3300	C30X30	N/A	3	No
Story1	C62	140	Column	3300	C30X30	N/A	3	No
Story1	C63	142	Column	3300	C30X30	N/A	3	No
Story1	C64	144	Column	3300	C30X30	N/A	3	No
Story1	C65	146	Column	3300	C30X30	N/A	3	No
Story1	C66	148	Column	3300	C30X30	N/A	3	No
Story1	C67	160	Column	3300	C30X30	N/A	3	No
Story1	C68	162	Column	3300	C30X30	N/A	3	No
Story1	C69	164	Column	3300	C30X30	N/A	3	No
Story1	C70	166	Column	3300	C30X30	N/A	3	No
Story1	C71	168	Column	3300	C30X30	N/A	3	No
Story1	C72	170	Column	3300	C30X30	N/A	3	No
Story1	C73	182	Column	3300	C30X30	N/A	3	No
Story1	C74	184	Column	3300	C30X30	N/A	3	No
Story1	C75	186	Column	3300	C30X30	N/A	3	No
Story1	C76	188	Column	3300	C30X30	N/A	3	No
Story1	C77	190	Column	3300	C30X30	N/A	3	No
Story1	C78	192	Column	3300	C30X30	N/A	3	No
Story1	C79	204	Column	3300	C30X30	N/A	3	No
Story1	C80	206	Column	3300	C30X30	N/A	3	No
Story1	C81	208	Column	3300	C30X30	N/A	3	No
Story1	C82	210	Column	3300	C30X30	N/A	3	No
Story1	C83	212	Column	3300	C30X30	N/A	3	No
Story1	C84	214	Column	3300	C30X30	N/A	3	No
Story2	B15	84	Beam	5200	V30X35	N/A	3	No
Story2	B16	85	Beam	3000	V30X35	N/A	3	No
Story2	B17	86	Beam	4000	V30X35	N/A	3	No
Story2	B18	87	Beam	3000	V30X35	N/A	3	No
Story2	B19	88	Beam	5200	V30X35	N/A	3	No
Story2	B21	107	Beam	3000	V30X35	N/A	3	No
Story2	B22	108	Beam	4000	V30X35	N/A	3	No
Story2	B23	109	Beam	3000	V30X35	N/A	3	No
Story2	B27	130	Beam	4000	V30X35	N/A	3	No
Story2	B32	152	Beam	4000	V30X35	N/A	3	No
Story2	B36	173	Beam	3000	V30X35	N/A	3	No
Story2	B37	174	Beam	4000	V30X35	N/A	3	No
Story2	B38	175	Beam	3000	V30X35	N/A	3	No
Story2	B40	194	Beam	5200	V30X35	N/A	3	No
Story2	B41	195	Beam	3000	V30X35	N/A	3	No
Story2	B42	196	Beam	4000	V30X35	N/A	3	No
Story2	B43	197	Beam	3000	V30X35	N/A	3	No
Story2	B44	198	Beam	5200	V30X35	N/A	3	No
Story2	B45	216	Beam	5200	V30X35	N/A	3	No

Table 3.3 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story2	B50	232	Beam	5000	V30X35	N/A	3	No
Story2	B51	233	Beam	3000	V30X35	N/A	3	No
Story2	B52	234	Beam	4000	V30X35	N/A	3	No
Story2	B53	235	Beam	3000	V30X35	N/A	3	No
Story2	B54	236	Beam	5000	V30X35	N/A	3	No
Story2	B55	237	Beam	3000	V30X35	N/A	3	No
Story2	B57	245	Beam	3000	V30X35	N/A	3	No
Story2	B58	246	Beam	4000	V30X35	N/A	3	No
Story2	B59	247	Beam	3000	V30X35	N/A	3	No
Story2	B61	249	Beam	3000	V30X35	N/A	3	No
Story2	B64	258	Beam	4000	V30X35	N/A	3	No
Story2	B70	270	Beam	4000	V30X35	N/A	3	No
Story2	B75	281	Beam	3000	V30X35	N/A	3	No
Story2	B76	282	Beam	4000	V30X35	N/A	3	No
Story2	B77	283	Beam	3000	V30X35	N/A	3	No
Story2	B80	292	Beam	5000	V30X35	N/A	3	No
Story2	B81	293	Beam	3000	V30X35	N/A	3	No
Story2	B82	294	Beam	4000	V30X35	N/A	3	No
Story2	B83	295	Beam	3000	V30X35	N/A	3	No
Story2	B84	296	Beam	5000	V30X35	N/A	3	No
Story2	B100	36	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B101	37	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B102	38	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B103	39	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B104	40	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B105	41	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B106	42	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B107	43	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B108	44	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B109	45	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B110	46	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B111	47	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B112	48	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B113	49	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B114	50	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B115	51	Beam	1803.5	VG-10X10	N/A	3	Yes
Story2	B116	52	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B117	53	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B118	54	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B119	55	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B120	56	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B121	57	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B122	58	Beam	2121.3	VG-10X10	N/A	3	Yes
Story2	B123	59	Beam	2121.3	VG-10X10	N/A	3	Yes

Table 3.3 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story2	B134	70	Beam	7000	VG-10X10	N/A	3	Yes
Story2	B135	71	Beam	7000	VG-10X10	N/A	3	Yes
Story2	B136	72	Beam	7000	VG-10X10	N/A	3	Yes
Story2	B137	74	Beam	7000	VG-10X10	N/A	3	Yes
Story2	B182	240	Beam	3900	VG-10X10	N/A	3	Yes
Story2	B183	244	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B184	248	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B185	250	Beam	6900	VG-10X10	N/A	3	Yes
Story2	B186	251	Beam	2600	VG-10X10	N/A	3	Yes
Story2	B187	255	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B188	256	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B189	257	Beam	5600	VG-10X10	N/A	3	Yes
Story2	B190	259	Beam	1300	VG-10X10	N/A	3	Yes
Story2	B191	260	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B192	261	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B193	262	Beam	4300	VG-10X10	N/A	3	Yes
Story2	B194	263	Beam	3750	VG-10X10	N/A	3	Yes
Story2	B195	267	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B196	268	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B197	269	Beam	6750	VG-10X10	N/A	3	Yes
Story2	B198	271	Beam	2500	VG-10X10	N/A	3	Yes
Story2	B199	272	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B200	273	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B201	274	Beam	5500	VG-10X10	N/A	3	Yes
Story2	B202	275	Beam	1250	VG-10X10	N/A	3	Yes
Story2	B203	279	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B204	280	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B205	284	Beam	4250	VG-10X10	N/A	3	Yes
Story2	B206	285	Beam	3900	VG-10X10	N/A	3	Yes
Story2	B207	286	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B208	287	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B209	297	Beam	6900	VG-10X10	N/A	3	Yes
Story2	B210	298	Beam	2600	VG-10X10	N/A	3	Yes
Story2	B211	299	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B212	300	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B213	301	Beam	5600	VG-10X10	N/A	3	Yes
Story2	B214	302	Beam	1300	VG-10X10	N/A	3	Yes
Story2	B215	303	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B216	304	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B217	305	Beam	4300	VG-10X10	N/A	3	Yes
Story2	B218	306	Beam	3750	VG-10X10	N/A	3	Yes
Story2	B219	307	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B220	308	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B221	309	Beam	3000	VG-10X10	N/A	3	Yes

Table 3.3 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story2	B222	310	Beam	3750	VG-10X10	N/A	3	Yes
Story2	B223	311	Beam	2500	VG-10X10	N/A	3	Yes
Story2	B224	312	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B225	313	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B226	314	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B227	315	Beam	2500	VG-10X10	N/A	3	Yes
Story2	B228	316	Beam	1250	VG-10X10	N/A	3	Yes
Story2	B229	317	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B230	318	Beam	4000	VG-10X10	N/A	3	Yes
Story2	B231	319	Beam	3000	VG-10X10	N/A	3	Yes
Story2	B232	320	Beam	1250	VG-10X10	N/A	3	Yes
Story2	B233	321	Beam	1300	VG-10X10	N/A	3	No
Story2	B234	322	Beam	1300	VG-10X10	N/A	3	No
Story2	B235	323	Beam	1300	VG-10X10	N/A	3	No
Story2	B236	324	Beam	1300	VG-10X10	N/A	3	No
Story2	B237	325	Beam	1250	VG-10X10	N/A	3	No
Story2	B238	326	Beam	1250	VG-10X10	N/A	3	No
Story2	B239	327	Beam	1250	VG-10X10	N/A	3	No
Story2	B240	328	Beam	1250	VG-10X10	N/A	3	No
Story2	B241	329	Beam	1300	VG-10X10	N/A	3	Yes
Story2	B242	330	Beam	1300	VG-10X10	N/A	3	Yes
Story2	B243	331	Beam	1300	VG-10X10	N/A	3	Yes
Story2	B244	332	Beam	1300	VG-10X10	N/A	3	Yes
Story2	B6	5	Beam	1300	V30X35	N/A	3	No
Story2	B20	14	Beam	1300	V30X35	N/A	3	No
Story2	B63	15	Beam	1300	V30X35	N/A	3	No
Story2	B67	16	Beam	1300	V30X35	N/A	3	No
Story2	B69	17	Beam	1300	V30X35	N/A	3	No
Story2	B73	21	Beam	1300	V30X35	N/A	3	No
Story2	B74	22	Beam	1300	V30X35	N/A	3	No
Story2	B79	23	Beam	1300	V30X35	N/A	3	No
Story2	B88	24	Beam	1300	V30X35	N/A	3	No
Story2	B89	25	Beam	1300	V30X35	N/A	3	No
Story2	B90	26	Beam	1300	V30X35	N/A	3	No
Story2	B91	27	Beam	1300	V30X35	N/A	3	No
Story2	B92	28	Beam	1300	V30X35	N/A	3	No
Story2	B93	29	Beam	1300	V30X35	N/A	3	No
Story2	B94	30	Beam	1300	V30X35	N/A	3	No
Story2	B95	31	Beam	1300	V30X35	N/A	3	No
Story2	B96	32	Beam	1300	V30X35	N/A	3	No
Story2	B97	33	Beam	1300	V30X35	N/A	3	No
Story2	B98	34	Beam	1300	V30X35	N/A	3	No
Story2	B99	35	Beam	1300	V30X35	N/A	3	No
Story2	B124	60	Beam	1250	V30X35	N/A	3	No

Table 3.3 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story2	B125	61	Beam	1250	V30X35	N/A	3	No
Story2	B126	62	Beam	1250	V30X35	N/A	3	No
Story2	B127	63	Beam	1250	V30X35	N/A	3	No
Story2	B128	64	Beam	1250	V30X35	N/A	3	No
Story2	B129	65	Beam	1250	V30X35	N/A	3	No
Story2	B130	66	Beam	1250	V30X35	N/A	3	No
Story2	B131	67	Beam	1250	V30X35	N/A	3	No
Story2	B132	68	Beam	1250	V30X35	N/A	3	No
Story2	B133	69	Beam	1250	V30X35	N/A	3	No
Story2	B138	76	Beam	1250	V30X35	N/A	3	No
Story2	B139	78	Beam	1250	V30X35	N/A	3	No
Story2	B140	80	Beam	1250	V30X35	N/A	3	No
Story2	B141	82	Beam	1250	V30X35	N/A	3	No
Story2	B142	89	Beam	1250	V30X35	N/A	3	No
Story2	B143	90	Beam	1250	V30X35	N/A	3	No
Story2	B144	91	Beam	1250	V30X35	N/A	3	No
Story2	B145	92	Beam	1250	V30X35	N/A	3	No
Story2	B146	93	Beam	1250	V30X35	N/A	3	No
Story2	B147	94	Beam	1250	V30X35	N/A	3	No
Story1	B25	133	Beam	5200	V30X30	N/A	3	No
Story1	B26	134	Beam	3000	V30X30	N/A	3	No
Story1	B27	135	Beam	4000	V30X30	N/A	3	No
Story1	B28	136	Beam	3000	V30X30	N/A	3	No
Story1	B29	137	Beam	5200	V30X30	N/A	3	No
Story1	B30	155	Beam	5200	V30X35	N/A	3	No
Story1	B31	156	Beam	3000	V30X35	N/A	3	No
Story1	B32	157	Beam	4000	V30X35	N/A	3	No
Story1	B33	158	Beam	3000	V30X35	N/A	3	No
Story1	B34	159	Beam	5200	V30X35	N/A	3	No
Story1	B35	177	Beam	5200	V30X35	N/A	3	No
Story1	B36	178	Beam	3000	V30X35	N/A	3	No
Story1	B37	179	Beam	4000	V30X35	N/A	3	No
Story1	B38	180	Beam	3000	V30X35	N/A	3	No
Story1	B39	181	Beam	5200	V30X35	N/A	3	No
Story1	B40	199	Beam	5200	V30X35	N/A	3	No
Story1	B41	200	Beam	3000	V30X35	N/A	3	No
Story1	B42	201	Beam	4000	V30X35	N/A	3	No
Story1	B44	203	Beam	5200	V30X35	N/A	3	No
Story1	B45	221	Beam	5200	V30X35	N/A	3	No
Story1	B46	222	Beam	3000	V30X35	N/A	3	No
Story1	B47	223	Beam	4000	V30X35	N/A	3	No
Story1	B48	224	Beam	3000	V30X35	N/A	3	No
Story1	B49	225	Beam	5200	V30X35	N/A	3	No
Story1	B53	229	Beam	3000	V30X35	N/A	3	No

Table 3.3 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Min Number Stations	Releases
Story1	B54	230	Beam	5000	V30X35	N/A	3	No
Story1	B55	231	Beam	3000	V30X35	N/A	3	No
Story1	B59	241	Beam	3000	V30X35	N/A	3	No
Story1	B60	242	Beam	5000	V30X35	N/A	3	No
Story1	B61	243	Beam	3000	V30X35	N/A	3	No
Story1	B64	252	Beam	4000	V30X35	N/A	3	No
Story1	B65	253	Beam	3000	V30X35	N/A	3	No
Story1	B66	254	Beam	5000	V30X35	N/A	3	No
Story1	B70	264	Beam	4000	V30X35	N/A	3	No
Story1	B71	265	Beam	3000	V30X35	N/A	3	No
Story1	B72	266	Beam	5000	V30X35	N/A	3	No
Story1	B76	276	Beam	4000	V30X35	N/A	3	No
Story1	B77	277	Beam	3000	V30X35	N/A	3	No
Story1	B78	278	Beam	5000	V30X35	N/A	3	No
Story1	B82	288	Beam	4000	V30X35	N/A	3	No
Story1	B83	289	Beam	3000	V30X35	N/A	3	No
Story1	B84	290	Beam	5000	V30X35	N/A	3	No
Story1	B85	291	Beam	3000	V30X35	N/A	3	No
Story1	B3	18	Beam	4000	V15X30	N/A	3	No
Story1	B7	19	Beam	1500	V30X30	N/A	3	No
Story1	B8	20	Beam	1500	V30X30	N/A	3	No
Story1	B1	1	Beam	2000	V30X35	N/A	3	No
Story1	B2	2	Beam	2000	V30X35	N/A	3	No
Story1	B4	3	Beam	2000	V30X35	N/A	3	No
Story1	B5	4	Beam	2000	V30X35	N/A	3	No
Story1	B9	6	Beam	1980	V15X30	N/A	3	No
Story1	B10	7	Beam	1380	V15X30	N/A	3	No
Story1	B11	8	Beam	1980	V30X35	N/A	3	No
Story1	B12	9	Beam	1020	V30X35	N/A	3	No
Story1	B13	10	Beam	1380	V30X35	N/A	3	No
Story1	B14	11	Beam	1620	V30X35	N/A	3	No
Story1	B86	12	Beam	1800	VG-10X10	N/A	3	No
Story1	B87	13	Beam	3400	VG-10X10	N/A	3	No

Table 3.4 - Frame Assignments - Sections

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story2	C43	73	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C44	75	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C45	77	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C46	79	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C47	81	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C48	83	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C49	95	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story2	C50	97	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C51	99	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C52	101	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C53	103	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C54	105	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C55	117	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C56	119	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C57	121	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C58	123	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C59	125	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C60	127	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C61	139	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C62	141	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C63	143	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C64	145	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C65	147	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C66	149	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C67	161	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C68	163	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C69	165	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C70	167	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C71	169	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C72	171	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C73	183	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C74	185	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C75	187	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C76	189	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C77	191	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C78	193	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C79	205	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	C80	207	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C55	116	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C56	118	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C57	120	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C58	122	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C59	124	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C60	126	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C61	138	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C62	140	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C63	142	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C64	144	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C65	146	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C66	148	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C67	160	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C68	162	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story1	C69	164	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C70	166	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C71	168	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C72	170	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C73	182	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C74	184	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C75	186	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C76	188	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C77	190	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C78	192	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C79	204	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C80	206	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C81	208	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C82	210	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C83	212	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story1	C84	214	Column	Concrete Rectangular	C30X30	Concrete Frame Design	N/A
Story2	B15	84	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B16	85	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B17	86	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B18	87	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B19	88	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B21	107	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B22	108	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B23	109	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B27	130	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B32	152	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B36	173	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B37	174	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B38	175	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B40	194	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B41	195	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B42	196	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B43	197	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B44	198	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B45	216	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B50	232	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B51	233	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B52	234	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B53	235	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B54	236	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B55	237	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B57	245	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B58	246	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B59	247	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B61	249	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story2	B64	258	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B70	270	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B75	281	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B76	282	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B77	283	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B80	292	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B81	293	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B82	294	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B83	295	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B84	296	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B100	36	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B101	37	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B102	38	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B103	39	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B104	40	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B105	41	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B106	42	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B107	43	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B108	44	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B109	45	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B110	46	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B111	47	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B112	48	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B113	49	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B114	50	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B115	51	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B116	52	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B117	53	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B118	54	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B119	55	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B120	56	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B121	57	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B122	58	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B123	59	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B134	70	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B135	71	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B136	72	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B137	74	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B182	240	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B183	244	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B184	248	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B185	250	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B186	251	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B187	255	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B188	256	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story2	B189	257	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B190	259	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B191	260	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B192	261	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B193	262	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B194	263	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B195	267	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B196	268	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B197	269	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B198	271	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B199	272	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B200	273	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B201	274	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B202	275	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B203	279	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B204	280	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B205	284	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B206	285	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B207	286	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B208	287	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B209	297	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B210	298	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B211	299	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B212	300	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B213	301	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B214	302	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B215	303	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B216	304	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B217	305	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B218	306	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B219	307	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B220	308	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B221	309	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B222	310	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B223	311	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B224	312	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B225	313	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B226	314	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B227	315	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B228	316	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B229	317	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B230	318	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B231	319	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B232	320	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B233	321	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story2	B234	322	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B235	323	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B236	324	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B237	325	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B238	326	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B239	327	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B240	328	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B241	329	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B242	330	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B243	331	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B244	332	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story2	B6	5	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B20	14	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B63	15	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B67	16	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B69	17	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B73	21	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B74	22	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B79	23	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B88	24	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B89	25	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B90	26	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B91	27	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B92	28	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B93	29	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B94	30	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B95	31	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B96	32	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B97	33	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B98	34	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B99	35	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B124	60	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B125	61	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B126	62	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B127	63	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B128	64	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B129	65	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B130	66	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B131	67	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B132	68	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B133	69	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B138	76	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B139	78	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B140	80	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B141	82	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story2	B142	89	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B143	90	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B144	91	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B145	92	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B146	93	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story2	B147	94	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B25	133	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B26	134	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B27	135	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B28	136	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B29	137	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B30	155	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B31	156	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B32	157	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B33	158	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B34	159	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B35	177	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B36	178	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B37	179	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B38	180	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B39	181	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B40	199	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B41	200	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B42	201	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B44	203	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B45	221	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B46	222	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B47	223	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B48	224	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B49	225	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B53	229	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B54	230	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B55	231	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B59	241	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B60	242	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B61	243	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B64	252	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B65	253	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B66	254	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B70	264	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B71	265	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B72	266	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B76	276	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B77	277	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B78	278	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A

Table 3.4 - Frame Assignments - Sections (continued)

Story	Label	Unique Name	Design Type	Section Type	Analysis Section	Design Procedure	Design Section
Story1	B82	288	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B83	289	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B84	290	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B85	291	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B3	18	Beam	Concrete Rectangular	V15X30	Concrete Frame Design	N/A
Story1	B7	19	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B8	20	Beam	Concrete Rectangular	V30X30	Concrete Frame Design	N/A
Story1	B1	1	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B2	2	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B4	3	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B5	4	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B9	6	Beam	Concrete Rectangular	V15X30	Concrete Frame Design	N/A
Story1	B10	7	Beam	Concrete Rectangular	V15X30	Concrete Frame Design	N/A
Story1	B11	8	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B12	9	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B13	10	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B14	11	Beam	Concrete Rectangular	V30X35	Concrete Frame Design	N/A
Story1	B86	12	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A
Story1	B87	13	Beam	Concrete Rectangular	VG-10X10	Concrete Frame Design	N/A

3.3 Shell Assignments

Table 3.5 - Shell Assignments - Summary

Story	Label	Unique Name	Section
Story1	W6	67	MURO20
Story1	W7	68	MURO20
Story1	W8	69	MURO20
Story1	W9	70	MURO20
Story1	W10	71	MURO20
Story2	F1	1	2dir peso 0
Story2	F13	2	2dir peso 0
Story1	F1	44	PESO02DIR
Story1	F2	45	PESO02DIR
Story1	F3	42	PESO02DIR
Story1	F4	34	PESO02DIR
Story1	F5	35	PESO02DIR
Story1	F6	36	PESO02DIR
Story1	F7	46	PESO02DIR
Story1	F8	43	PESO02DIR
Story1	F9	48	PESO02DIR
Story1	F10	33	PESO02DIR
Story1	F11	32	PESO02DIR
Story1	F12	30	PESO02DIR
Story1	F21	31	PESO02DIR
Story1	F24	28	PESO02DIR

Table 3.5 - Shell Assignments - Summary (continued)

Story	Label	Unique Name	Section
Story1	F32	47	PESO02DIR
Story1	F33	49	PESO02DIR
Story1	F34	27	PESO02DIR

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Patterns

Name	Type	Self Weight Multiplier
DEAD	Dead	1
LR	Live	0
LIVE	Live	0

4.2 Applied Loads

4.2.1 Line Loads

Table 4.2 - Frame Loads - Distributed

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B15	84	Beam	DEAD	Force	Gravity	0	1	0	5200	3.5	3.5
Story2	B15	84	Beam	DEAD	Force	Gravity	0	1	0	5200	1.6	1.6
Story2	B16	85	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B16	85	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B17	86	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B17	86	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B18	87	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B18	87	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B19	88	Beam	DEAD	Force	Gravity	0	1	0	5200	3.5	3.5
Story2	B19	88	Beam	DEAD	Force	Gravity	0	1	0	5200	1.6	1.6
Story2	B21	107	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B22	108	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B23	109	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B27	130	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B32	152	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B36	173	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B37	174	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B38	175	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B40	194	Beam	DEAD	Force	Gravity	0	1	0	5200	3.5	3.5
Story2	B41	195	Beam	DEAD	Force	Gravity	0	1	0	3000	1.5	1.5
Story2	B41	195	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B42	196	Beam	DEAD	Force	Gravity	0	1	0	4000	1.5	1.5
Story2	B42	196	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B43	197	Beam	DEAD	Force	Gravity	0	1	0	3000	1.5	1.5
Story2	B43	197	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B44	198	Beam	DEAD	Force	Gravity	0	1	0	5200	3.5	3.5
Story2	B44	198	Beam	DEAD	Force	Gravity	0	1	0	5200	1.6	1.6
Story2	B45	216	Beam	DEAD	Force	Gravity	0	1	0	5200	3.5	3.5

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B45	216	Beam	DEAD	Force	Gravity	0	1	0	5200	1.6	1.6
Story2	B50	232	Beam	DEAD	Force	Gravity	0	1	0	5000	3.5	3.5
Story2	B50	232	Beam	DEAD	Force	Gravity	0	1	0	5000	1.6	1.6
Story2	B51	233	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B51	233	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B52	234	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B52	234	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B53	235	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B53	235	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B54	236	Beam	DEAD	Force	Gravity	0	1	0	5000	3.5	3.5
Story2	B54	236	Beam	DEAD	Force	Gravity	0	1	0	5000	1.6	1.6
Story2	B55	237	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B55	237	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B57	245	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B58	246	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B59	247	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B61	249	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B61	249	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B64	258	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B70	270	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B75	281	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B76	282	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B77	283	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B80	292	Beam	DEAD	Force	Gravity	0	1	0	5000	3.5	3.5
Story2	B80	292	Beam	DEAD	Force	Gravity	0	1	0	5000	1.6	1.6
Story2	B81	293	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B81	293	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B82	294	Beam	DEAD	Force	Gravity	0	1	0	4000	3.5	3.5
Story2	B82	294	Beam	DEAD	Force	Gravity	0	1	0	4000	1.6	1.6
Story2	B83	295	Beam	DEAD	Force	Gravity	0	1	0	3000	3.5	3.5
Story2	B83	295	Beam	DEAD	Force	Gravity	0	1	0	3000	1.6	1.6
Story2	B84	296	Beam	DEAD	Force	Gravity	0	1	0	5000	3.5	3.5
Story2	B84	296	Beam	DEAD	Force	Gravity	0	1	0	5000	1.6	1.6
Story2	B134	70	Beam	DEAD	Force	Gravity	0	1	0	7000	7	7
Story2	B135	71	Beam	DEAD	Force	Gravity	0	1	0	7000	7	7
Story2	B136	72	Beam	DEAD	Force	Gravity	0	1	0	7000	7	7
Story2	B137	74	Beam	DEAD	Force	Gravity	0	1	0	7000	7	7
Story2	B182	240	Beam	DEAD	Force	Gravity	0	1	0	3900	7	7
Story2	B183	244	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B184	248	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B185	250	Beam	DEAD	Force	Gravity	0	1	0	6900	7	7
Story2	B186	251	Beam	DEAD	Force	Gravity	0	1	0	2600	7	7
Story2	B187	255	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B188	256	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B189	257	Beam	DEAD	Force	Gravity	0	1	0	5600	7	7
Story2	B190	259	Beam	DEAD	Force	Gravity	0	1	0	1300	7	7
Story2	B191	260	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B192	261	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B193	262	Beam	DEAD	Force	Gravity	0	1	0	4300	7	7
Story2	B194	263	Beam	DEAD	Force	Gravity	0	1	0	3750	7	7
Story2	B195	267	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B196	268	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B197	269	Beam	DEAD	Force	Gravity	0	1	0	6750	7	7
Story2	B198	271	Beam	DEAD	Force	Gravity	0	1	0	2500	7	7
Story2	B199	272	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B200	273	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B201	274	Beam	DEAD	Force	Gravity	0	1	0	5500	7	7
Story2	B202	275	Beam	DEAD	Force	Gravity	0	1	0	1250	7	7
Story2	B203	279	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B204	280	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B205	284	Beam	DEAD	Force	Gravity	0	1	0	4250	7	7
Story2	B206	285	Beam	DEAD	Force	Gravity	0	1	0	3900	7	7
Story2	B207	286	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B208	287	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B209	297	Beam	DEAD	Force	Gravity	0	1	0	6900	7	7
Story2	B210	298	Beam	DEAD	Force	Gravity	0	1	0	2600	7	7
Story2	B211	299	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B212	300	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B213	301	Beam	DEAD	Force	Gravity	0	1	0	5600	7	7
Story2	B214	302	Beam	DEAD	Force	Gravity	0	1	0	1300	7	7
Story2	B215	303	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B216	304	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B217	305	Beam	DEAD	Force	Gravity	0	1	0	4300	7	7
Story2	B218	306	Beam	DEAD	Force	Gravity	0	1	0	3750	3.5	3.5
Story2	B219	307	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B220	308	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B221	309	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B222	310	Beam	DEAD	Force	Gravity	0	1	0	3750	7	7
Story2	B223	311	Beam	DEAD	Force	Gravity	0	1	0	2500	7	7
Story2	B224	312	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B225	313	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B226	314	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B227	315	Beam	DEAD	Force	Gravity	0	1	0	2500	7	7
Story2	B229	317	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B230	318	Beam	DEAD	Force	Gravity	0	1	0	4000	7	7
Story2	B231	319	Beam	DEAD	Force	Gravity	0	1	0	3000	7	7
Story2	B6	5	Beam	DEAD	Force	Gravity	0	1	0	1300	0	2.46
Story2	B6	5	Beam	DEAD	Force	Gravity	1	1	1300	1300	2.46	2.46

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B20	14	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B20	14	Beam	DEAD	Force	Gravity	0	1	0	1300	2.46	1.23
Story2	B63	15	Beam	DEAD	Force	Gravity	0	1	0	1300	1.23	0
Story2	B67	16	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B69	17	Beam	DEAD	Force	Gravity	0	1	0	1300	0	2.46
Story2	B69	17	Beam	DEAD	Force	Gravity	1	1	1300	1300	2.46	2.46
Story2	B73	21	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B73	21	Beam	DEAD	Force	Gravity	0	1	0	1300	2.46	1.23
Story2	B74	22	Beam	DEAD	Force	Gravity	0	1	0	1300	1.23	0
Story2	B79	23	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B88	24	Beam	DEAD	Force	Gravity	0	1	0	1300	0	1.23
Story2	B89	25	Beam	DEAD	Force	Gravity	0	1	0	1300	1.23	2.46
Story2	B89	25	Beam	DEAD	Force	Gravity	1	1	1300	1300	2.46	2.46
Story2	B90	26	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B90	26	Beam	DEAD	Force	Gravity	0	1	0	1300	2.46	1.23
Story2	B91	27	Beam	DEAD	Force	Gravity	0	1	0	1300	1.23	0
Story2	B92	28	Beam	DEAD	Force	Gravity	0	1	0	1300	0	2.46
Story2	B92	28	Beam	DEAD	Force	Gravity	1	1	1300	1300	2.46	2.46
Story2	B93	29	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B93	29	Beam	DEAD	Force	Gravity	0	1	0	1300	2.46	1.23
Story2	B94	30	Beam	DEAD	Force	Gravity	0	1	0	1300	1.23	0
Story2	B95	31	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B96	32	Beam	DEAD	Force	Gravity	0	1	0	1300	0	2.46
Story2	B96	32	Beam	DEAD	Force	Gravity	1	1	1300	1300	2.46	2.46
Story2	B97	33	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B97	33	Beam	DEAD	Force	Gravity	0	1	0	1300	2.46	1.23
Story2	B98	34	Beam	DEAD	Force	Gravity	0	1	0	1300	1.23	0
Story2	B99	35	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B124	60	Beam	DEAD	Force	Gravity	0	1	0	1250	0	2.46
Story2	B124	60	Beam	DEAD	Force	Gravity	1	1	1250	1250	2.46	2.46
Story2	B125	61	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B125	61	Beam	DEAD	Force	Gravity	0	1	0	1250	2.46	1.23
Story2	B126	62	Beam	DEAD	Force	Gravity	0	1	0	1250	1.23	0
Story2	B127	63	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B128	64	Beam	DEAD	Force	Gravity	0	1	0	1250	0	2.46
Story2	B128	64	Beam	DEAD	Force	Gravity	1	1	1250	1250	2.46	2.46
Story2	B129	65	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B129	65	Beam	DEAD	Force	Gravity	0	1	0	1250	2.46	1.23
Story2	B130	66	Beam	DEAD	Force	Gravity	0	1	0	1250	1.23	0
Story2	B131	67	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B132	68	Beam	DEAD	Force	Gravity	0	1	0	1250	0	2.46
Story2	B132	68	Beam	DEAD	Force	Gravity	1	1	1250	1250	2.46	2.46
Story2	B133	69	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B133	69	Beam	DEAD	Force	Gravity	0	1	0	1250	2.46	1.23

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B138	76	Beam	DEAD	Force	Gravity	0	1	0	1250	1.23	0
Story2	B139	78	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B140	80	Beam	DEAD	Force	Gravity	0	1	0	1250	0	2.46
Story2	B140	80	Beam	DEAD	Force	Gravity	1	1	1250	1250	2.46	2.46
Story2	B141	82	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B141	82	Beam	DEAD	Force	Gravity	0	1	0	1250	2.46	1.23
Story2	B142	89	Beam	DEAD	Force	Gravity	0	1	0	1250	1.23	0
Story2	B143	90	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story2	B144	91	Beam	DEAD	Force	Gravity	0	1	0	1250	0	2.46
Story2	B144	91	Beam	DEAD	Force	Gravity	1	1	1250	1250	2.46	2.46
Story2	B145	92	Beam	DEAD	Force	Gravity	0	0	0	0	2.46	2.46
Story2	B145	92	Beam	DEAD	Force	Gravity	0	1	0	1250	2.46	1.23
Story2	B146	93	Beam	DEAD	Force	Gravity	0	1	0	1250	1.23	0
Story2	B147	94	Beam	DEAD	Force	Gravity	0	0	0	0	0	0
Story1	B25	133	Beam	DEAD	Force	Gravity	0	1	0	5200	5.8	5.8
Story1	B30	155	Beam	DEAD	Force	Gravity	0	1	0	5200	5.8	5.8
Story1	B34	159	Beam	DEAD	Force	Gravity	0	1	0	5200	5.8	5.8
Story1	B38	180	Beam	DEAD	Force	Gravity	0	1	0	3000	5.8	5.8
Story1	B39	181	Beam	DEAD	Force	Gravity	0	1	0	5200	5.8	5.8
Story1	B41	200	Beam	DEAD	Force	Gravity	0	1	0	3000	3	3
Story1	B42	201	Beam	DEAD	Force	Gravity	0	1	0	4000	3	3
Story1	B44	203	Beam	DEAD	Force	Gravity	0	1	0	5200	0.75	0.75
Story1	B45	221	Beam	DEAD	Force	Gravity	0	1	0	5200	3	3
Story1	B46	222	Beam	DEAD	Force	Gravity	0	1	0	3000	1.5	1.5
Story1	B47	223	Beam	DEAD	Force	Gravity	0	1	0	4000	1.5	1.5
Story1	B48	224	Beam	DEAD	Force	Gravity	0	1	0	3000	1.5	1.5
Story1	B49	225	Beam	DEAD	Force	Gravity	0	1	0	5200	0.75	0.75
Story1	B53	229	Beam	DEAD	Force	Gravity	0	1	0	3000	5.8	5.8
Story1	B54	230	Beam	DEAD	Force	Gravity	0	1	0	5000	3	3
Story1	B55	231	Beam	DEAD	Force	Gravity	0	1	0	3000	3	3
Story1	B59	241	Beam	DEAD	Force	Gravity	0	1	0	3000	5.8	5.8
Story1	B61	243	Beam	DEAD	Force	Gravity	0	1	0	3000	1.75	1.75
Story1	B66	254	Beam	DEAD	Force	Gravity	0	1	0	5000	5.8	5.8
Story1	B72	266	Beam	DEAD	Force	Gravity	0	1	0	5000	5.8	5.8
Story1	B82	288	Beam	DEAD	Force	Gravity	0	1	0	4000	3	3
Story1	B83	289	Beam	DEAD	Force	Gravity	0	1	0	3000	3	3
Story1	B84	290	Beam	DEAD	Force	Gravity	0	1	0	5000	3	3
Story1	B85	291	Beam	DEAD	Force	Gravity	0	1	0	3000	1.5	1.5
Story1	B3	18	Beam	DEAD	Force	Gravity	0	1	0	4000	5.8	5.8
Story1	B7	19	Beam	DEAD	Force	Gravity	0	1	0	1500	5.8	5.8
Story1	B8	20	Beam	DEAD	Force	Gravity	0	1	0	1500	5.8	5.8
Story1	B13	10	Beam	DEAD	Force	Gravity	0	1	0	1380	1.75	1.75
Story1	B14	11	Beam	DEAD	Force	Gravity	0	1	0	1620	1.75	1.75
Story1	B86	12	Beam	DEAD	Force	Gravity	0	1	0	1800	29.15	29.15

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B15	84	Beam	LR	Force	Gravity	0	1	0	5200	0.49	0.49
Story2	B16	85	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B17	86	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B18	87	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B19	88	Beam	LR	Force	Gravity	0	1	0	5200	0.49	0.49
Story2	B21	107	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B22	108	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B23	109	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B36	173	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B37	174	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B38	175	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B40	194	Beam	LR	Force	Gravity	0	1	0	5200	0.49	0.49
Story2	B41	195	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B42	196	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B43	197	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B44	198	Beam	LR	Force	Gravity	0	1	0	5200	0.49	0.49
Story2	B50	232	Beam	LR	Force	Gravity	0	1	0	5000	0.49	0.49
Story2	B51	233	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B52	234	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B53	235	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B54	236	Beam	LR	Force	Gravity	0	1	0	5000	0.49	0.49
Story2	B57	245	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B58	246	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B59	247	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B75	281	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B76	282	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B77	283	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B80	292	Beam	LR	Force	Gravity	0	1	0	5000	0.49	0.49
Story2	B82	294	Beam	LR	Force	Gravity	0	1	0	4000	0.49	0.49
Story2	B83	295	Beam	LR	Force	Gravity	0	1	0	3000	0.49	0.49
Story2	B84	296	Beam	LR	Force	Gravity	0	1	0	5000	0.49	0.49
Story2	B116	52	Beam	LR	Force	Gravity	0	1	0	2121.3	0.49	0.49
Story2	B134	70	Beam	LR	Force	Gravity	0	1	0	7000	0.98	0.98
Story2	B135	71	Beam	LR	Force	Gravity	0	1	0	7000	0.98	0.98
Story2	B136	72	Beam	LR	Force	Gravity	0	1	0	7000	0.98	0.98
Story2	B137	74	Beam	LR	Force	Gravity	0	1	0	7000	0.98	0.98
Story2	B182	240	Beam	LR	Force	Gravity	0	1	0	3900	0.98	0.98
Story2	B183	244	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B184	248	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B185	250	Beam	LR	Force	Gravity	0	1	0	6900	0.98	0.98
Story2	B186	251	Beam	LR	Force	Gravity	0	1	0	2600	0.98	0.98
Story2	B187	255	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B188	256	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B189	257	Beam	LR	Force	Gravity	0	1	0	5600	0.98	0.98

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story2	B190	259	Beam	LR	Force	Gravity	0	1	0	1300	0.98	0.98
Story2	B191	260	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B192	261	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B193	262	Beam	LR	Force	Gravity	0	1	0	4300	0.98	0.98
Story2	B194	263	Beam	LR	Force	Gravity	0	1	0	3750	0.98	0.98
Story2	B195	267	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B196	268	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B197	269	Beam	LR	Force	Gravity	0	1	0	6750	0.98	0.98
Story2	B198	271	Beam	LR	Force	Gravity	0	1	0	2500	0.98	0.98
Story2	B199	272	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B200	273	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B201	274	Beam	LR	Force	Gravity	0	1	0	5500	0.98	0.98
Story2	B202	275	Beam	LR	Force	Gravity	0	1	0	1250	0.98	0.98
Story2	B203	279	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B204	280	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B205	284	Beam	LR	Force	Gravity	0	1	0	4250	0.49	0.49
Story2	B206	285	Beam	LR	Force	Gravity	0	1	0	3900	0.98	0.98
Story2	B207	286	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B208	287	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B209	297	Beam	LR	Force	Gravity	0	1	0	6900	0.98	0.98
Story2	B210	298	Beam	LR	Force	Gravity	0	1	0	2600	0.98	0.98
Story2	B211	299	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B212	300	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B213	301	Beam	LR	Force	Gravity	0	1	0	5600	0.98	0.98
Story2	B214	302	Beam	LR	Force	Gravity	0	1	0	1300	0.98	0.98
Story2	B215	303	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B216	304	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B217	305	Beam	LR	Force	Gravity	0	1	0	4300	0.98	0.98
Story2	B219	307	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B220	308	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B221	309	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B222	310	Beam	LR	Force	Gravity	0	1	0	3750	0.98	0.98
Story2	B223	311	Beam	LR	Force	Gravity	0	1	0	2500	0.98	0.98
Story2	B224	312	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B225	313	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B226	314	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B227	315	Beam	LR	Force	Gravity	0	1	0	2500	0.98	0.98
Story2	B229	317	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story2	B230	318	Beam	LR	Force	Gravity	0	1	0	4000	0.98	0.98
Story2	B231	319	Beam	LR	Force	Gravity	0	1	0	3000	0.98	0.98
Story1	B44	203	Beam	LR	Force	Gravity	0	1	0	5200	0.525	0.525
Story1	B49	225	Beam	LR	Force	Gravity	0	1	0	5200	0.525	0.525
Story1	B61	243	Beam	LR	Force	Gravity	0	1	0	3000	1.23	1.23
Story1	B13	10	Beam	LR	Force	Gravity	0	1	0	1380	1.23	1.23

Table 4.2 - Frame Loads - Distributed (continued)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm	Force at Start kN/m	Force at End kN/m
Story1	B14	11	Beam	LR	Force	Gravity	0	1	0	1620	1.23	1.23
Story1	B86	12	Beam	LIVE	Force	Gravity	0	1	0	1800	27.6	27.6

4.2.2 Area Loads

Table 4.3 - Shell Loads - Uniform

Story	Label	Unique Name	Load Pattern	Direction	Load kN/m²
Story2	F1	1	DEAD	Gravity	2.5
Story2	F13	2	DEAD	Gravity	2.5
Story1	F1	44	DEAD	Gravity	3.35
Story1	F2	45	DEAD	Gravity	3.35
Story1	F3	42	DEAD	Gravity	3.35
Story1	F4	34	DEAD	Gravity	3.35
Story1	F5	35	DEAD	Gravity	3.35
Story1	F6	36	DEAD	Gravity	3.35
Story1	F7	46	DEAD	Gravity	3.35
Story1	F8	43	DEAD	Gravity	3.35
Story1	F9	48	DEAD	Gravity	3.35
Story1	F10	33	DEAD	Gravity	3.35
Story1	F11	32	DEAD	Gravity	3.35
Story1	F12	30	DEAD	Gravity	3.35
Story1	F21	31	DEAD	Gravity	3.35
Story1	F24	28	DEAD	Gravity	3.35
Story1	F32	47	DEAD	Gravity	3.35
Story1	F33	49	DEAD	Gravity	3.35
Story1	F34	27	DEAD	Gravity	3.35
Story2	F1	1	LR	Gravity	0.35
Story2	F13	2	LR	Gravity	0.35
Story1	F1	44	LIVE	Gravity	5
Story1	F2	45	LIVE	Gravity	5
Story1	F3	42	LIVE	Gravity	5
Story1	F4	34	LIVE	Gravity	6
Story1	F5	35	LIVE	Gravity	6
Story1	F6	36	LIVE	Gravity	6
Story1	F7	46	LIVE	Gravity	5
Story1	F8	43	LIVE	Gravity	5
Story1	F9	48	LIVE	Gravity	5
Story1	F10	33	LIVE	Gravity	5
Story1	F11	32	LIVE	Gravity	6
Story1	F12	30	LIVE	Gravity	6
Story1	F21	31	LIVE	Gravity	5
Story1	F24	28	LIVE	Gravity	5
Story1	F32	47	LIVE	Gravity	6

Table 4.3 - Shell Loads - Uniform (continued)

Story	Label	Unique Name	Load Pattern	Direction	Load kN/m²
Story1	F33	49	LIVE	Gravity	5
Story1	F34	27	LIVE	Gravity	6

4.3 Functions

4.3.1 Response Spectrum Functions

Table 4.4 - Response Spectrum Function - User

Name	Period sec	Acceleration	Damping %
Daño	0	0	2
Daño	0.01	0.0731	
Daño	0.02	0.0962	
Daño	0.04	0.1425	
Daño	0.06	0.1888	
Daño	0.08	0.235	
Daño	0.1	0.2812	
Daño	0.12	0.2812	
Daño	0.14	0.2812	
Daño	0.16	0.2812	
Daño	0.18	0.2812	
Daño	0.2	0.2812	
Daño	0.22	0.2812	
Daño	0.24	0.2812	
Daño	0.26	0.2812	
Daño	0.28	0.2812	
Daño	0.3	0.2812	
Daño	0.32	0.2812	
Daño	0.34	0.2812	
Daño	0.36	0.2812	
Daño	0.38	0.2812	
Daño	0.4	0.2812	
Daño	0.42	0.2812	
Daño	0.44	0.2812	
Daño	0.46	0.2812	
Daño	0.48	0.2812	
Daño	0.5	0.23	
Daño	0.52	0.2175	
Daño	0.54	0.206	
Daño	0.56	0.1956	
Daño	0.58	0.186	
Daño	0.6	0.1772	
Daño	0.62	0.1691	
Daño	0.64	0.1616	
Daño	0.66	0.1546	
Daño	0.68	0.1482	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
Daño	0.7	0.1422	
Daño	0.72	0.1365	
Daño	0.74	0.1313	
Daño	0.76	0.1264	
Daño	0.78	0.1218	
Daño	0.8	0.1174	
Daño	0.82	0.1134	
Daño	0.84	0.1095	
Daño	0.86	0.1059	
Daño	0.88	0.1025	
Daño	0.9	0.0992	
Daño	0.92	0.0962	
Daño	0.94	0.0933	
Daño	0.96	0.0905	
Daño	0.98	0.0879	
Daño	1	0.0854	
Daño	1.02	0.083	
Daño	1.04	0.0807	
Daño	1.06	0.0785	
Daño	1.08	0.0765	
Daño	1.1	0.0745	
Daño	1.12	0.0726	
Daño	1.14	0.0708	
Daño	1.16	0.069	
Daño	1.18	0.0674	
Daño	1.2	0.0658	
Daño	1.22	0.0642	
Daño	1.24	0.0628	
Daño	1.26	0.0613	
Daño	1.28	0.06	
Daño	1.3	0.0587	
Daño	1.32	0.0574	
Daño	1.34	0.0562	
Daño	1.36	0.055	
Daño	1.38	0.0539	
Daño	1.4	0.0528	
Daño	1.42	0.0517	
Daño	1.44	0.0507	
Daño	1.46	0.0497	
Daño	1.48	0.0487	
Daño	1.5	0.0478	
Daño	1.52	0.0469	
Daño	1.54	0.046	
Daño	1.56	0.0452	
Daño	1.58	0.0444	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
Daño	1.6	0.0436	
Daño	1.62	0.0428	
Daño	1.64	0.0421	
Daño	1.66	0.0414	
Daño	1.68	0.0407	
Daño	1.7	0.04	
Daño	1.72	0.0393	
Daño	1.74	0.0387	
Daño	1.76	0.038	
Daño	1.78	0.0374	
Daño	1.8	0.0368	
Daño	1.82	0.0363	
Daño	1.84	0.0357	
Daño	1.86	0.0351	
Daño	1.88	0.0346	
Daño	1.9	0.0341	
Daño	1.92	0.0336	
Daño	1.94	0.0331	
Daño	1.96	0.0326	
Daño	1.98	0.0321	
Daño	2	0.0317	
Daño	2.02	0.0312	
Daño	2.04	0.0308	
Daño	2.06	0.0304	
Daño	2.08	0.03	
Daño	2.1	0.0295	
Daño	2.12	0.0291	
Daño	2.14	0.0288	
Daño	2.16	0.0284	
Daño	2.18	0.028	
Daño	2.2	0.0276	
Daño	2.22	0.0273	
Daño	2.24	0.0269	
Daño	2.26	0.0266	
Daño	2.28	0.0263	
Daño	2.3	0.0259	
Daño	2.32	0.0256	
Daño	2.34	0.0253	
Daño	2.36	0.025	
Daño	2.38	0.0247	
Daño	2.4	0.0244	
Daño	2.42	0.0241	
Daño	2.44	0.0238	
Daño	2.46	0.0236	
Daño	2.48	0.0233	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
Daño	2.5	0.023	
Daño	2.52	0.0228	
Daño	2.54	0.0225	
Daño	2.56	0.0223	
Daño	2.58	0.022	
Daño	2.6	0.0218	
Daño	2.62	0.0215	
Daño	2.64	0.0213	
Daño	2.66	0.0211	
Daño	2.68	0.0208	
Daño	2.7	0.0206	
Daño	2.72	0.0204	
Daño	2.74	0.0202	
Daño	2.76	0.02	
Daño	2.78	0.0198	
Daño	2.8	0.0196	
Daño	2.82	0.0194	
Daño	2.84	0.0192	
Daño	2.86	0.019	
Daño	2.88	0.0188	
Daño	2.9	0.0186	
Daño	2.92	0.0184	
Daño	2.94	0.0183	
Daño	2.96	0.0181	
Daño	2.98	0.0179	
Daño	3	0.0177	
Daño	3.02	0.0176	
Daño	3.04	0.0174	
Daño	3.06	0.0172	
Daño	3.08	0.0171	
Daño	3.1	0.0169	
Daño	3.12	0.0168	
Daño	3.14	0.0166	
Daño	3.16	0.0165	
Daño	3.18	0.0163	
Daño	3.2	0.0162	
Daño	3.22	0.016	
Daño	3.24	0.0159	
Daño	3.26	0.0158	
Daño	3.28	0.0156	
Daño	3.3	0.0155	
Daño	3.32	0.0153	
Daño	3.34	0.0152	
Daño	3.36	0.0151	
Daño	3.38	0.015	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
Daño	3.4	0.0148	
Daño	3.42	0.0147	
Daño	3.44	0.0146	
Daño	3.46	0.0145	
Daño	3.48	0.0143	
Daño	3.5	0.0142	
Daño	3.52	0.0141	
Daño	3.54	0.014	
Daño	3.56	0.0139	
Daño	3.58	0.0138	
Daño	3.6	0.0137	
Daño	3.62	0.0136	
Daño	3.64	0.0135	
Daño	3.66	0.0133	
Daño	3.68	0.0132	
Daño	3.7	0.0131	
Daño	3.72	0.013	
Daño	3.74	0.0129	
Daño	3.76	0.0128	
Daño	3.78	0.0127	
Daño	3.8	0.0127	
Daño	3.82	0.0126	
Daño	3.84	0.0125	
Daño	3.86	0.0124	
Daño	3.88	0.0123	
Daño	3.9	0.0122	
Daño	3.92	0.0121	
Daño	3.94	0.012	
Daño	3.96	0.0119	
Daño	3.98	0.0118	
Daño	4	0.0118	
DER	0	0	5
DER	0.01	0.3132	
DER	0.02	0.3564	
DER	0.04	0.4428	
DER	0.06	0.5292	
DER	0.08	0.6156	
DER	0.1	0.702	
DER	0.12	0.702	
DER	0.14	0.702	
DER	0.16	0.702	
DER	0.18	0.702	
DER	0.2	0.702	
DER	0.22	0.702	
DER	0.24	0.702	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DER	0.26	0.702	
DER	0.28	0.702	
DER	0.3	0.702	
DER	0.32	0.702	
DER	0.34	0.702	
DER	0.36	0.702	
DER	0.38	0.702	
DER	0.4	0.702	
DER	0.42	0.702	
DER	0.44	0.702	
DER	0.46	0.702	
DER	0.48	0.702	
DER	0.5	0.702	
DER	0.52	0.702	
DER	0.54	0.702	
DER	0.56	0.702	
DER	0.58	0.702	
DER	0.6	0.7	
DER	0.62	0.6699	
DER	0.64	0.642	
DER	0.66	0.6161	
DER	0.68	0.5919	
DER	0.7	0.5694	
DER	0.72	0.5483	
DER	0.74	0.5285	
DER	0.76	0.51	
DER	0.78	0.4925	
DER	0.8	0.4761	
DER	0.82	0.4606	
DER	0.84	0.446	
DER	0.86	0.4321	
DER	0.88	0.419	
DER	0.9	0.4066	
DER	0.92	0.3948	
DER	0.94	0.3836	
DER	0.96	0.3729	
DER	0.98	0.3627	
DER	1	0.353	
DER	1.02	0.3438	
DER	1.04	0.335	
DER	1.06	0.3265	
DER	1.08	0.3184	
DER	1.1	0.3107	
DER	1.12	0.3033	
DER	1.14	0.2962	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DER	1.16	0.2894	
DER	1.18	0.2828	
DER	1.2	0.2765	
DER	1.22	0.2705	
DER	1.24	0.2646	
DER	1.26	0.259	
DER	1.28	0.2536	
DER	1.3	0.2484	
DER	1.32	0.2434	
DER	1.34	0.2385	
DER	1.36	0.2338	
DER	1.38	0.2293	
DER	1.4	0.2249	
DER	1.42	0.2207	
DER	1.44	0.2166	
DER	1.46	0.2126	
DER	1.48	0.2088	
DER	1.5	0.205	
DER	1.52	0.2014	
DER	1.54	0.1979	
DER	1.56	0.1946	
DER	1.58	0.1913	
DER	1.6	0.1881	
DER	1.62	0.185	
DER	1.64	0.1819	
DER	1.66	0.179	
DER	1.68	0.1762	
DER	1.7	0.1734	
DER	1.72	0.1707	
DER	1.74	0.1681	
DER	1.76	0.1655	
DER	1.78	0.163	
DER	1.8	0.1606	
DER	1.82	0.1582	
DER	1.84	0.1559	
DER	1.86	0.1537	
DER	1.88	0.1515	
DER	1.9	0.1494	
DER	1.92	0.1473	
DER	1.94	0.1453	
DER	1.96	0.1433	
DER	1.98	0.1413	
DER	2	0.1395	
DER	2.02	0.1376	
DER	2.04	0.1358	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DER	2.06	0.134	
DER	2.08	0.1323	
DER	2.1	0.1306	
DER	2.12	0.129	
DER	2.14	0.1274	
DER	2.16	0.1258	
DER	2.18	0.1242	
DER	2.2	0.1227	
DER	2.22	0.1213	
DER	2.24	0.1198	
DER	2.26	0.1184	
DER	2.28	0.117	
DER	2.3	0.1156	
DER	2.32	0.1143	
DER	2.34	0.113	
DER	2.36	0.1117	
DER	2.38	0.1105	
DER	2.4	0.1092	
DER	2.42	0.108	
DER	2.44	0.1068	
DER	2.46	0.1057	
DER	2.48	0.1045	
DER	2.5	0.1034	
DER	2.52	0.1023	
DER	2.54	0.1012	
DER	2.56	0.1002	
DER	2.58	0.0991	
DER	2.6	0.0981	
DER	2.62	0.0971	
DER	2.64	0.0961	
DER	2.66	0.0952	
DER	2.68	0.0942	
DER	2.7	0.0933	
DER	2.72	0.0924	
DER	2.74	0.0915	
DER	2.76	0.0906	
DER	2.78	0.0897	
DER	2.8	0.0888	
DER	2.82	0.088	
DER	2.84	0.0872	
DER	2.86	0.0864	
DER	2.88	0.0856	
DER	2.9	0.0848	
DER	2.92	0.084	
DER	2.94	0.0832	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DER	2.96	0.0825	
DER	2.98	0.0817	
DER	3	0.081	
DER	3.02	0.0803	
DER	3.04	0.0796	
DER	3.06	0.0789	
DER	3.08	0.0782	
DER	3.1	0.0775	
DER	3.12	0.0769	
DER	3.14	0.0762	
DER	3.16	0.0756	
DER	3.18	0.0749	
DER	3.2	0.0743	
DER	3.22	0.0737	
DER	3.24	0.0731	
DER	3.26	0.0725	
DER	3.28	0.0719	
DER	3.3	0.0713	
DER	3.32	0.0707	
DER	3.34	0.0701	
DER	3.36	0.0696	
DER	3.38	0.069	
DER	3.4	0.0685	
DER	3.42	0.068	
DER	3.44	0.0674	
DER	3.46	0.0669	
DER	3.48	0.0664	
DER	3.5	0.0659	
DER	3.52	0.0654	
DER	3.54	0.0649	
DER	3.56	0.0644	
DER	3.58	0.0639	
DER	3.6	0.0634	
DER	3.62	0.063	
DER	3.64	0.0625	
DER	3.66	0.0621	
DER	3.68	0.0616	
DER	3.7	0.0612	
DER	3.72	0.0607	
DER	3.74	0.0603	
DER	3.76	0.0599	
DER	3.78	0.0594	
DER	3.8	0.059	
DER	3.82	0.0586	
DER	3.84	0.0582	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DER	3.86	0.0578	
DER	3.88	0.0574	
DER	3.9	0.057	
DER	3.92	0.0566	
DER	3.94	0.0562	
DER	3.96	0.0558	
DER	3.98	0.0555	
DER	4	0.0551	
DISE	0.01	0.3308	5
DISE	0.02	0.3915	
DISE	0.04	0.513	
DISE	0.06	0.6345	
DISE	0.08	0.756	
DISE	0.1	0.8775	
DISE	0.12	0.8775	
DISE	0.14	0.8775	
DISE	0.16	0.8775	
DISE	0.18	0.8775	
DISE	0.2	0.8775	
DISE	0.22	0.8775	
DISE	0.24	0.8775	
DISE	0.26	0.8775	
DISE	0.28	0.8775	
DISE	0.3	0.8775	
DISE	0.32	0.8775	
DISE	0.34	0.8775	
DISE	0.36	0.8775	
DISE	0.38	0.8775	
DISE	0.4	0.8775	
DISE	0.42	0.8775	
DISE	0.44	0.8775	
DISE	0.46	0.8775	
DISE	0.48	0.8775	
DISE	0.5	0.8775	
DISE	0.52	0.8775	
DISE	0.54	0.8775	
DISE	0.56	0.8775	
DISE	0.58	0.8775	
DISE	0.6	0.875	
DISE	0.62	0.8374	
DISE	0.64	0.8025	
DISE	0.66	0.7701	
DISE	0.68	0.7399	
DISE	0.7	0.7117	
DISE	0.72	0.6853	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DISE	0.74	0.6606	
DISE	0.76	0.6374	
DISE	0.78	0.6156	
DISE	0.8	0.5951	
DISE	0.82	0.5757	
DISE	0.84	0.5574	
DISE	0.86	0.5401	
DISE	0.88	0.5237	
DISE	0.9	0.5082	
DISE	0.92	0.4935	
DISE	0.94	0.4794	
DISE	0.96	0.4661	
DISE	0.98	0.4534	
DISE	1	0.4413	
DISE	1.02	0.4297	
DISE	1.04	0.4187	
DISE	1.06	0.4082	
DISE	1.08	0.3981	
DISE	1.1	0.3884	
DISE	1.12	0.3791	
DISE	1.14	0.3702	
DISE	1.16	0.3617	
DISE	1.18	0.3535	
DISE	1.2	0.3456	
DISE	1.22	0.3381	
DISE	1.24	0.3308	
DISE	1.26	0.3238	
DISE	1.28	0.317	
DISE	1.3	0.3105	
DISE	1.32	0.3042	
DISE	1.34	0.2981	
DISE	1.36	0.2923	
DISE	1.38	0.2866	
DISE	1.4	0.2811	
DISE	1.42	0.2758	
DISE	1.44	0.2707	
DISE	1.46	0.2658	
DISE	1.48	0.261	
DISE	1.5	0.2563	
DISE	1.52	0.2518	
DISE	1.54	0.2474	
DISE	1.56	0.2432	
DISE	1.58	0.2391	
DISE	1.6	0.2351	
DISE	1.62	0.2312	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DISE	1.64	0.2274	
DISE	1.66	0.2238	
DISE	1.68	0.2202	
DISE	1.7	0.2167	
DISE	1.72	0.2134	
DISE	1.74	0.2101	
DISE	1.76	0.2069	
DISE	1.78	0.2038	
DISE	1.8	0.2008	
DISE	1.82	0.1978	
DISE	1.84	0.1949	
DISE	1.86	0.1921	
DISE	1.88	0.1894	
DISE	1.9	0.1867	
DISE	1.92	0.1841	
DISE	1.94	0.1816	
DISE	1.96	0.1791	
DISE	1.98	0.1767	
DISE	2	0.1743	
DISE	2.02	0.172	
DISE	2.04	0.1698	
DISE	2.06	0.1676	
DISE	2.08	0.1654	
DISE	2.1	0.1633	
DISE	2.12	0.1612	
DISE	2.14	0.1592	
DISE	2.16	0.1572	
DISE	2.18	0.1553	
DISE	2.2	0.1534	
DISE	2.22	0.1516	
DISE	2.24	0.1498	
DISE	2.26	0.148	
DISE	2.28	0.1463	
DISE	2.3	0.1445	
DISE	2.32	0.1429	
DISE	2.34	0.1412	
DISE	2.36	0.1396	
DISE	2.38	0.1381	
DISE	2.4	0.1365	
DISE	2.42	0.135	
DISE	2.44	0.1335	
DISE	2.46	0.1321	
DISE	2.48	0.1307	
DISE	2.5	0.1293	
DISE	2.52	0.1279	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DISE	2.54	0.1265	
DISE	2.56	0.1252	
DISE	2.58	0.1239	
DISE	2.6	0.1226	
DISE	2.62	0.1214	
DISE	2.64	0.1202	
DISE	2.66	0.119	
DISE	2.68	0.1178	
DISE	2.7	0.1166	
DISE	2.72	0.1155	
DISE	2.74	0.1143	
DISE	2.76	0.1132	
DISE	2.78	0.1121	
DISE	2.8	0.1111	
DISE	2.82	0.11	
DISE	2.84	0.109	
DISE	2.86	0.1079	
DISE	2.88	0.1069	
DISE	2.9	0.106	
DISE	2.92	0.105	
DISE	2.94	0.104	
DISE	2.96	0.1031	
DISE	2.98	0.1022	
DISE	3	0.1012	
DISE	3.02	0.1004	
DISE	3.04	0.0995	
DISE	3.06	0.0986	
DISE	3.08	0.0977	
DISE	3.1	0.0969	
DISE	3.12	0.0961	
DISE	3.14	0.0952	
DISE	3.16	0.0944	
DISE	3.18	0.0936	
DISE	3.2	0.0929	
DISE	3.22	0.0921	
DISE	3.24	0.0913	
DISE	3.26	0.0906	
DISE	3.28	0.0898	
DISE	3.3	0.0891	
DISE	3.32	0.0884	
DISE	3.34	0.0877	
DISE	3.36	0.087	
DISE	3.38	0.0863	
DISE	3.4	0.0856	
DISE	3.42	0.0849	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
DISE	3.44	0.0843	
DISE	3.46	0.0836	
DISE	3.48	0.083	
DISE	3.5	0.0824	
DISE	3.52	0.0817	
DISE	3.54	0.0811	
DISE	3.56	0.0805	
DISE	3.58	0.0799	
DISE	3.6	0.0793	
DISE	3.62	0.0787	
DISE	3.64	0.0781	
DISE	3.66	0.0776	
DISE	3.68	0.077	
DISE	3.7	0.0764	
DISE	3.72	0.0759	
DISE	3.74	0.0753	
DISE	3.76	0.0748	
DISE	3.78	0.0743	
DISE	3.8	0.0738	
DISE	3.82	0.0732	
DISE	3.84	0.0727	
DISE	3.86	0.0722	
DISE	3.88	0.0717	
DISE	3.9	0.0712	
DISE	3.92	0.0708	
DISE	3.94	0.0703	
DISE	3.96	0.0698	
DISE	3.98	0.0693	
DISE	4	0.0689	

4.4 Load Cases

Table 4.5 - Load Cases - Summary

Name	Type
DEAD	Linear Static
LR	Linear Static
LIVE	Linear Static

4.5 Load Combinations

Table 4.6 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
1/RX	SXDISE	0.25	Linear Add	No
1/RY	SYDISE	0.25	Linear Add	No
1OMEG/RX	SXDISE	0.75	Linear Add	No

Table 4.6 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
1OMEG/RY	SYDISE	0.75	Linear Add	No
VB241	DEAD	1.4	Linear Add	No
VB242	DEAD	1.2	Linear Add	No
VB242	LIVE	1.6		No
VB242	LR	0.5		No
VB242	ENTERRENO	1.6		No
VB242	SOBRECARGA	1.6		No
VB243	DEAD	1.2	Linear Add	No
VB243	LIVE	1		No
VB243	LR	1.6		No
VB244POS	DEAD	1.2	Linear Add	No
VB244POS	LIVE	1		No
VB244POS	LR	0.5		No
VB244POS	WINDPOS	1		No
VB245X	DEAD	1.2	Linear Add	No
VB245X	LIVE	1		No
VB245X	1/RX	1		No
VB245Y	DEAD	1.2	Linear Add	No
VB245Y	LIVE	1		No
VB245Y	1/RY	1		No
VB246POS	DEAD	0.9	Linear Add	No
VB246POS	WINDPOS	1		No
VB247X	DEAD	0.9	Linear Add	No
VB247X	1/RX	1		No
VB247X	ENTERRENO	1.6		No
VB247X	SOBRECARGA	1.6		No
VB247Y	DEAD	0.9	Linear Add	No
VB247Y	1/RY	1		No
VB247Y	ENTERRENO	1.6		No
VB247Y	SOBRECARGA	1.6		No
VB245CORTX	DEAD	1.2	Linear Add	No
VB245CORTX	LIVE	1		No
VB245CORTX	1/RX	2		No
VB245CORTY	DEAD	1.2	Linear Add	No
VB245CORTY	LIVE	1		No
VB245CORTY	1/RY	2		No
VB247CORTX	DEAD	0.9	Linear Add	No
VB247CORTX	1/RX	2		No
VB247CORTX	ENTERRENO	1.6		No
VB247CORTX	SOBRECARGA	1.6		No
VB247CORTY	DEAD	0.9	Linear Add	No
VB247CORTY	1/RY	2		No
VB247CORTY	ENTERRENO	1.6		No
VB247CORTY	SOBRECARGA	1.6		No
CB241	DEAD	1.4	Linear Add	No

Table 4.6 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
CB242	DEAD	1.2	Linear Add	No
CB242	LIVE	1.6		No
CB242	LR	0.5		No
CB242	ENTERRENO	1.6		No
CB242	SOBRECARGA	1.6		No
CB243	DEAD	1.2	Linear Add	No
CB243	LIVE	1		No
CB243	LR	1.6		No
CB244	DEAD	1.2	Linear Add	No
CB244	LIVE	1		No
CB244	LR	0.5		No
CB245VX	DEAD	1.2	Linear Add	No
CB245VX	LIVE	1		No
CB245VX	1/RX	1		No
CB245VX	1/RY	0.3		No
CB245VY	DEAD	1.2	Linear Add	No
CB245VY	LIVE	1		No
CB245VY	1/RY	1		No
CB245VY	1/RX	0.3		No
CB246POS	DEAD	0.9	Linear Add	No
CB246POS	WINDPOS	1		No
CB246POS	ENTERRENO	1.6		No
CB246POS	SOBRECARGA	1.6		No
CB247VX	DEAD	0.9	Linear Add	No
CB247VX	1/RX	1		No
CB247VX	1/RY	0.3		No
CB247VX	ENTERRENO	1.6		No
CB247VX	SOBRECARGA	1.6		No
CB247VY	DEAD	0.9	Linear Add	No
CB247VY	1/RY	1		No
CB247VY	1/RX	0.3		No
CB247VY	ENTERRENO	1.6		No
CB247VY	SOBRECARGA	1.6		No
CB245VCORTX	DEAD	1.2	Linear Add	No
CB245VCORTX	LIVE	1		No
CB245VCORTX	1OMEG/RX	1		No
CB245VCORTX	1OMEG/RY	0.3		No
CB245VCORTY	DEAD	1.2	Linear Add	No
CB245VCORTY	LIVE	1		No
CB245VCORTY	1OMEG/RY	1		No
CB245VCORTY	1OMEG/RX	0.3		No
CB247VCORTX	DEAD	0.9	Linear Add	No
CB247VCORTX	1OMEG/RX	1		No
CB247VCORTX	1OMEG/RY	0.3		No
CB247VCORTX	ENTERRENO	1.6		No

Table 4.6 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
CB247VCORTX	SOBRECARGA	1.6		No
CB247VCORTY	DEAD	0.9	Linear Add	No
CB247VCORTY	1OMEG/RY	1		No
CB247VCORTY	1OMEG/RX	0.3		No
CB247VCORTY	ENTERRENO	1.6		No
CB247VCORTY	SOBRECARGA	1.6		No
B231	DEAD	1	Linear Add	No
B232	DEAD	1	Linear Add	No
B232	LIVE	1		No
B233	DEAD	1	Linear Add	No
B233	LR	1		No
B234	DEAD	1	Linear Add	No
B234	LIVE	1		No
B234	LR	1		No
B235POS	DEAD	1	Linear Add	No
B235POS	WINDPOS	1		No
B235NEG	DEAD	1	Linear Add	No
B235NEG	WINDNEG	1		No
B236X	DEAD	1	Linear Add	No
B236X	1/RX	0.7		No
B236Y	DEAD	1	Linear Add	No
B236Y	1/RY	0.7		No
B237POS	DEAD	1	Linear Add	No
B237POS	LIVE	0.75		No
B237POS	LR	0.75		No
B237POS	WINDPOS	0.75		No
B238X	DEAD	1	Linear Add	No
B238X	LIVE	0.75		No
B238X	LR	0.75		No
B238X	1/RX	0.525		No
B238Y	DEAD	1	Linear Add	No
B238Y	LIVE	0.75		No
B238Y	LR	0.75		No
B238Y	1/RY	0.525		No
B239POS	DEAD	0.6	Linear Add	No
B239POS	WINDPOS	1		No
B23-10X	DEAD	0.6	Linear Add	No
B23-10X	1/RX	0.7		No
B23-10Y	DEAD	0.6	Linear Add	No
B23-10Y	1/RY	0.7		No
B237NEG	DEAD	1	Linear Add	No
B237NEG	LIVE	0.75		No
B237NEG	LR	0.75		No
B237NEG	WINDNEG	0.75		No
B239NEG	DEAD	0.6	Linear Add	No

Table 4.6 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
B239NEG	WINDNEG	1		No
VB244NEG	DEAD	1.2	Linear Add	No
VB244NEG	LIVE	1		No
VB244NEG	LR	0.5		No
VB244NEG	WINDNEG	1		No
VB246NEG	DEAD	0.9	Linear Add	No
VB246NEG	WINDNEG	1		No
VB246NEG	ENTERRENO	1.6		No
VB246NEG	SOBRECARGA	1.6		No
CB246NEG	DEAD	0.9	Linear Add	No
CB246NEG	WINDNEG	1		No
C1	DEAD	1.6	Linear Add	No
C2	DEAD	1.4	Linear Add	No
C2	LIVE	1.7		No
C2	LR	1.7		No
C3	DEAD	1.05	Linear Add	No
C3	LR	1.28		No
C3	LIVE	1.28		No
C3	ENTERRENO	1.28		No
C3	SOBRECARGA	1.28		No
C4	DEAD	0.9	Linear Add	No
C4	ENTERRENO	1.3		No
C4	SOBRECARGA	1.3		No

5 Analysis Results

This chapter provides analysis results.

5.1 Structure Results

Table 5.1 - Base Reactions

Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m	X m	Y m	Z m
DEAD	0	0	5794.4079	74083.2542	-56115.9674	0	0	0	0
LR	0	0	204.3477	2276.2545	-2067.5667	0	0	0	0
LIVE	0	0	1369.4744	20227.1001	-13490.5741	0	0	0	0
1/RX Max	1017.7388	387.8001	1.042E-06	2034.9761	5305.8558	17636.603	0	0	0
1/RX Min	-1017.7388	-387.8001	-1.042E-06	-2034.9761	-5305.8558	-17636.603	0	0	0
1/RY Max	226.7162	1053.2672	6.089E-07	5458.4904	1175.2138	12054.72	0	0	0
1/RY Min	-226.7162	-1053.2672	-6.089E-07	-5458.4904	-1175.2138	-12054.72	0	0	0
1OMEG/RX Max	3053.2164	1163.4004	3.125E-06	6104.9283	15917.5675	52909.809	0	0	0
1OMEG/RX Min	-3053.2164	-1163.4004	-3.125E-06	-6104.9283	-15917.5675	-52909.809	0	0	0
1OMEG/RY Max	680.1487	3159.8015	1.827E-06	16375.4711	3525.6415	36164.16	0	0	0
1OMEG/RY Min	-680.1487	-3159.8015	-1.827E-06	-16375.4711	-3525.6415	-36164.16	0	0	0
VB241	0	0	8112.171	103716.5559	-78562.3544	0	0	0	0
VB242	0	-1882.8058	9246.6223	125508.022	-89957.8629	-19204.6188	0	0	0
VB243	0	0	8649.7202	112769.0124	-84137.8417	0	0	0	0
VB244POS	0	0	8424.9377	110265.1324	-81863.5184	0	0	0	0
VB245X Max	1017.7388	387.8001	8322.7638	111161.9813	-75523.8792	17636.603	0	0	0
VB245X Min	-1017.7388	-387.8001	8322.7638	107092.0291	-86135.5909	-17636.603	0	0	0
VB245Y Max	226.7162	1053.2672	8322.7638	114585.4956	-79654.5212	12054.72	0	0	0
VB245Y Min	-226.7162	-1053.2672	8322.7638	103668.5148	-82004.9489	-12054.72	0	0	0
VB246POS	0	0	5214.9671	66674.9288	-50504.3707	0	0	0	0
VB247X Max	1017.7388	-1495.0056	5214.9671	71816.5344	-45198.5149	-1568.0157	0	0	0
VB247X Min	-1017.7388	-2270.6059	5214.9671	67746.5822	-55810.2265	-36841.2218	0	0	0
VB247Y Max	226.7162	-829.5386	5214.9671	75240.0487	-49329.1568	-7149.8987	0	0	0
VB247Y Min	-226.7162	-2936.0729	5214.9671	64323.0679	-51679.5845	-31259.3388	0	0	0
VB245CORTX Max	2035.4776	775.6002	8322.7638	113196.9574	-70218.0234	35273.206	0	0	0
VB245CORTX Min	-2035.4776	-775.6002	8322.7638	105057.053	-91441.4467	-35273.206	0	0	0
VB245CORTY Max	453.4324	2106.5344	8322.7638	120043.986	-78479.3074	24109.44	0	0	0
VB245CORTY Min	-453.4324	-2106.5344	8322.7638	98210.0244	-83180.1627	-24109.44	0	0	0
VB247CORTX Max	2035.4776	-1107.2055	5214.9671	73851.5105	-39892.659	16068.5873	0	0	0
VB247CORTX Min	-2035.4776	-2658.406	5214.9671	65711.6061	-61116.0823	-54477.8248	0	0	0
VB247CORTY Max	453.4324	223.7286	5214.9671	80698.5391	-48153.943	4904.8213	0	0	0
VB247CORTY Min	-453.4324	-3989.3401	5214.9671	58864.5775	-52854.7983	-43314.0588	0	0	0
CB241	0	0	8112.171	103716.5559	-78562.3544	0	0	0	0
CB242	0	-1882.8058	9246.6223	125508.022	-89957.8629	-19204.6188	0	0	0
CB243	0	0	8649.7202	112769.0124	-84137.8417	0	0	0	0
CB244	0	0	8424.9377	110265.1324	-81863.5184	0	0	0	0
CB245VX Max	1085.7537	703.7803	8322.7638	112799.5284	-75171.3151	21253.019	0	0	0
CB245VX Min	-1085.7537	-703.7803	8322.7638	105454.482	-86488.155	-21253.019	0	0	0
CB245VY Max	532.0379	1169.6072	8322.7638	115195.9884	-78062.7645	17345.7009	0	0	0
CB245VY Min	-532.0379	-1169.6072	8322.7638	103058.022	-83596.7056	-17345.7009	0	0	0
CB246POS	0	-1882.8058	5214.9671	69781.5583	-50504.3707	-19204.6188	0	0	0

Table 5.1 - Base Reactions (continued)

Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m	X m	Y m	Z m
CB247VX Max	1085.7537	-1179.0255	5214.9671	73454.0815	-44845.9507	2048.4003	0	0	0
CB247VX Min	-1085.7537	-2586.586	5214.9671	66109.0351	-56162.7906	-40457.6378	0	0	0
CB247VY Max	532.0379	-713.1985	5214.9671	75850.5415	-47737.4001	-1858.9178	0	0	0
CB247VY Min	-532.0379	-3052.413	5214.9671	63712.5751	-53271.3413	-36550.3197	0	0	0
CB245VCORTX Max	3257.261	2111.3408	8322.7638	120144.5748	-63854.4751	63759.057	0	0	0
CB245VCORTX Min	-3257.261	-2111.3408	8322.7638	98109.4356	-97804.995	-63759.057	0	0	0
CB245VCORTY Max	1596.1136	3508.8217	8322.7638	127333.9548	-72528.8233	52037.1027	0	0	0
CB245VCORTY Min	-1596.1136	-3508.8217	8322.7638	90920.0556	-89130.6468	-52037.1027	0	0	0
CB247VCORTX Max	3257.261	228.5351	5214.9671	80799.1279	-33529.1108	44554.4383	0	0	0
CB247VCORTX Min	-3257.261	-3994.1466	5214.9671	58763.9887	-67479.6306	-82963.6758	0	0	0
CB247VCORTY Max	1596.1136	1626.0159	5214.9671	87988.5079	-42203.4589	32832.484	0	0	0
CB247VCORTY Min	-1596.1136	-5391.6274	5214.9671	51574.6087	-58805.2824	-71241.7215	0	0	0
B231	0	0	5794.4079	74083.2542	-56115.9674	0	0	0	0
B232	0	0	7163.8823	94310.3544	-69606.5416	0	0	0	0
B233	0	0	5998.7556	76359.5087	-58183.5341	0	0	0	0
B234	0	0	7368.23	96586.6088	-71674.1082	0	0	0	0
B235POS	0	0	5794.4079	74083.2542	-56115.9674	0	0	0	0
B235NEG	0	0	5794.4079	74083.2542	-56115.9674	0	0	0	0
B236X Max	712.4172	271.4601	5794.4079	75507.7375	-52401.8683	12345.6221	0	0	0
B236X Min	-712.4172	-271.4601	5794.4079	72658.771	-59830.0665	-12345.6221	0	0	0
B236Y Max	158.7014	737.287	5794.4079	77904.1975	-55293.3177	8438.304	0	0	0
B236Y Min	-158.7014	-737.287	5794.4079	70262.311	-56938.6171	-8438.304	0	0	0
B237POS	0	0	6974.7745	90960.7702	-67784.573	0	0	0	0
B238X Max	534.3129	203.5951	6974.7745	92029.1326	-64998.9987	9259.2166	0	0	0
B238X Min	-534.3129	-203.5951	6974.7745	89892.4077	-70570.1473	-9259.2166	0	0	0
B238Y Max	119.026	552.9653	6974.7745	93826.4776	-67167.5858	6328.728	0	0	0
B238Y Min	-119.026	-552.9653	6974.7745	88095.0627	-68401.5603	-6328.728	0	0	0
B239POS	0	0	3476.6447	44449.9525	-33669.5805	0	0	0	0
B23-10X Max	712.4172	271.4601	3476.6447	45874.4358	-29955.4814	12345.6221	0	0	0
B23-10X Min	-712.4172	-271.4601	3476.6447	43025.4693	-37383.6795	-12345.6221	0	0	0
B23-10Y Max	158.7014	737.287	3476.6447	48270.8958	-32846.9308	8438.304	0	0	0
B23-10Y Min	-158.7014	-737.287	3476.6447	40629.0093	-34492.2301	-8438.304	0	0	0
B237NEG	0	0	6974.7745	90960.7702	-67784.573	0	0	0	0
B239NEG	0	0	3476.6447	44449.9525	-33669.5805	0	0	0	0
VB244NEG	0	0	8424.9377	110265.1324	-81863.5184	0	0	0	0
VB246NEG	0	-1882.8058	5214.9671	69781.5583	-50504.3707	-19204.6188	0	0	0
CB246NEG	0	0	5214.9671	66674.9288	-50504.3707	0	0	0	0
C1	0	0	9271.0526	118533.2068	-89785.5479	0	0	0	0
C2	0	0	10787.6686	141972.2587	-105011	0	0	0	0
C3	0	-1506.2446	8098.6206	109077.0144	-78836.186	-15363.695	0	0	0
C4	0	-1529.7797	5214.9671	69199.0653	-50504.3707	-15603.7527	0	0	0

5.2 Story Results

Table 5.2 - Story Drifts

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story2	DEAD	18	Max Drift X	0.00069	20.4	8	6.9
Story2	DEAD	34	Max Drift Y	0.001989	12.2	20	6.9
Story2	LR	18	Max Drift X	8.5E-05	20.4	8	6.9
Story2	LR	34	Max Drift Y	0.000212	12.2	20	6.9
Story2	LIVE	25	Max Drift X	0.000135	0	15	6.9
Story2	LIVE	35	Max Drift Y	0.000301	15.2	20	6.9
Story2	1/RX Max	19	Max Drift X	0.003857	0	12	6.9
Story2	1/RX Max	7	Max Drift Y	0.003376	0	5	6.9
Story2	1/RX Min	19	Max Drift X	0.003857	0	12	6.9
Story2	1/RX Min	7	Max Drift Y	0.003376	0	5	6.9
Story2	1/RY Max	38	Max Drift X	0.001184	5.2	23	6.9
Story2	1/RY Max	8	Max Drift Y	0.00356	5.2	5	6.9
Story2	1/RY Min	38	Max Drift X	0.001184	5.2	23	6.9
Story2	1/RY Min	8	Max Drift Y	0.00356	5.2	5	6.9
Story2	1OMEG/RX Max	19	Max Drift X	0.011571	0	12	6.9
Story2	1OMEG/RX Max	7	Max Drift Y	0.010127	0	5	6.9
Story2	1OMEG/RX Min	19	Max Drift X	0.011571	0	12	6.9
Story2	1OMEG/RX Min	7	Max Drift Y	0.010127	0	5	6.9
Story2	1OMEG/RY Max	38	Max Drift X	0.003551	5.2	23	6.9
Story2	1OMEG/RY Max	8	Max Drift Y	0.01068	5.2	5	6.9
Story2	1OMEG/RY Min	38	Max Drift X	0.003551	5.2	23	6.9
Story2	1OMEG/RY Min	8	Max Drift Y	0.01068	5.2	5	6.9
Story2	VB241	18	Max Drift X	0.000966	20.4	8	6.9
Story2	VB241	34	Max Drift Y	0.002785	12.2	20	6.9
Story2	VB242	18	Max Drift X	0.000865	20.4	8	6.9
Story2	VB242	34	Max Drift Y	0.002773	12.2	20	6.9
Story2	VB243	18	Max Drift X	0.000984	20.4	8	6.9
Story2	VB243	34	Max Drift Y	0.002982	12.2	20	6.9
Story2	VB244POS	18	Max Drift X	0.00089	20.4	8	6.9
Story2	VB244POS	34	Max Drift Y	0.002749	12.2	20	6.9
Story2	VB245X Max	25	Max Drift X	0.004258	0	15	6.9
Story2	VB245X Max	7	Max Drift Y	0.003514	0	5	6.9
Story2	VB245X Min	20	Max Drift X	0.003727	5.2	12	6.9
Story2	VB245X Min	35	Max Drift Y	0.004194	15.2	20	6.9
Story2	VB245Y Max	25	Max Drift X	0.001538	0	15	6.9
Story2	VB245Y Max	8	Max Drift Y	0.003673	5.2	5	6.9
Story2	VB245Y Min	18	Max Drift X	0.001211	20.4	8	6.9
Story2	VB245Y Min	34	Max Drift Y	0.005694	12.2	20	6.9
Story2	VB246POS	18	Max Drift X	0.000621	20.4	8	6.9
Story2	VB246POS	34	Max Drift Y	0.00179	12.2	20	6.9
Story2	VB247X Max	25	Max Drift X	0.004019	0	15	6.9
Story2	VB247X Max	7	Max Drift Y	0.004784	0	5	6.9
Story2	VB247X Min	20	Max Drift X	0.003743	5.2	12	6.9
Story2	VB247X Min	35	Max Drift Y	0.003222	15.2	20	6.9

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story2	VB247Y Max	25	Max Drift X	0.001299	0	15	6.9
Story2	VB247Y Max	8	Max Drift Y	0.004881	5.2	5	6.9
Story2	VB247Y Min	38	Max Drift X	0.001176	5.2	23	6.9
Story2	VB247Y Min	34	Max Drift Y	0.004713	12.2	20	6.9
Story2	VB245CORTX Max	25	Max Drift X	0.007892	0	15	6.9
Story2	VB245CORTX Max	7	Max Drift Y	0.00689	0	5	6.9
Story2	VB245CORTX Min	20	Max Drift X	0.00758	5.2	12	6.9
Story2	VB245CORTX Min	7	Max Drift Y	0.006612	0	5	6.9
Story2	VB245CORTY Max	25	Max Drift X	0.002452	0	15	6.9
Story2	VB245CORTY Max	8	Max Drift Y	0.007233	5.2	5	6.9
Story2	VB245CORTY Min	38	Max Drift X	0.002327	5.2	23	6.9
Story2	VB245CORTY Min	34	Max Drift Y	0.008746	12.2	20	6.9
Story2	VB247CORTX Max	19	Max Drift X	0.007838	0	12	6.9
Story2	VB247CORTX Max	7	Max Drift Y	0.00816	0	5	6.9
Story2	VB247CORTX Min	20	Max Drift X	0.007596	5.2	12	6.9
Story2	VB247CORTX Min	7	Max Drift Y	0.005342	0	5	6.9
Story2	VB247CORTY Max	37	Max Drift X	0.002378	0	23	6.9
Story2	VB247CORTY Max	8	Max Drift Y	0.008441	5.2	5	6.9
Story2	VB247CORTY Min	38	Max Drift X	0.00236	5.2	23	6.9
Story2	VB247CORTY Min	34	Max Drift Y	0.007765	12.2	20	6.9
Story2	CB241	18	Max Drift X	0.000966	20.4	8	6.9
Story2	CB241	34	Max Drift Y	0.002785	12.2	20	6.9
Story2	CB242	18	Max Drift X	0.000865	20.4	8	6.9
Story2	CB242	34	Max Drift Y	0.002773	12.2	20	6.9
Story2	CB243	18	Max Drift X	0.000984	20.4	8	6.9
Story2	CB243	34	Max Drift Y	0.002982	12.2	20	6.9
Story2	CB244	18	Max Drift X	0.00089	20.4	8	6.9
Story2	CB244	34	Max Drift Y	0.002749	12.2	20	6.9
Story2	CB245VX Max	25	Max Drift X	0.004532	0	15	6.9
Story2	CB245VX Max	7	Max Drift Y	0.004479	0	5	6.9
Story2	CB245VX Min	20	Max Drift X	0.003938	5.2	12	6.9
Story2	CB245VX Min	35	Max Drift Y	0.005101	15.2	20	6.9
Story2	CB245VY Max	25	Max Drift X	0.002628	0	15	6.9
Story2	CB245VY Max	7	Max Drift Y	0.004366	0	5	6.9
Story2	CB245VY Min	38	Max Drift X	0.002229	5.2	23	6.9
Story2	CB245VY Min	34	Max Drift Y	0.006112	12.2	20	6.9
Story2	CB246POS	18	Max Drift X	0.000585	20.4	8	6.9
Story2	CB246POS	34	Max Drift Y	0.001661	12.2	20	6.9
Story2	CB247VX Max	25	Max Drift X	0.004294	0	15	6.9
Story2	CB247VX Max	7	Max Drift Y	0.005749	0	5	6.9
Story2	CB247VX Min	38	Max Drift X	0.003969	5.2	23	6.9
Story2	CB247VX Min	35	Max Drift Y	0.004129	15.2	20	6.9
Story2	CB247VY Max	25	Max Drift X	0.00239	0	15	6.9
Story2	CB247VY Max	7	Max Drift Y	0.005636	0	5	6.9
Story2	CB247VY Min	38	Max Drift X	0.002262	5.2	23	6.9

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story2	CB247VY Min	34	Max Drift Y	0.00513	12.2	20	6.9
Story2	CB245VCORTX Max	19	Max Drift X	0.012352	0	12	6.9
Story2	CB245VCORTX Max	7	Max Drift Y	0.013159	0	5	6.9
Story2	CB245VCORTX Min	20	Max Drift X	0.012065	5.2	12	6.9
Story2	CB245VCORTX Min	7	Max Drift Y	0.012881	0	5	6.9
Story2	CB245VCORTY Max	38	Max Drift X	0.006851	5.2	23	6.9
Story2	CB245VCORTY Max	7	Max Drift Y	0.012821	0	5	6.9
Story2	CB245VCORTY Min	38	Max Drift X	0.006769	5.2	23	6.9
Story2	CB245VCORTY Min	35	Max Drift Y	0.013099	15.2	20	6.9
Story2	CB247VCORTX Max	19	Max Drift X	0.012327	0	12	6.9
Story2	CB247VCORTX Max	7	Max Drift Y	0.014429	0	5	6.9
Story2	CB247VCORTX Min	19	Max Drift X	0.012081	0	12	6.9
Story2	CB247VCORTX Min	7	Max Drift Y	0.011611	0	5	6.9
Story2	CB247VCORTY Max	38	Max Drift X	0.006818	5.2	23	6.9
Story2	CB247VCORTY Max	7	Max Drift Y	0.014091	0	5	6.9
Story2	CB247VCORTY Min	38	Max Drift X	0.006803	5.2	23	6.9
Story2	CB247VCORTY Min	35	Max Drift Y	0.012127	15.2	20	6.9
Story2	B231	18	Max Drift X	0.00069	20.4	8	6.9
Story2	B231	34	Max Drift Y	0.001989	12.2	20	6.9
Story2	B232	18	Max Drift X	0.000709	20.4	8	6.9
Story2	B232	34	Max Drift Y	0.002245	12.2	20	6.9
Story2	B233	18	Max Drift X	0.000775	20.4	8	6.9
Story2	B233	34	Max Drift Y	0.002201	12.2	20	6.9
Story2	B234	18	Max Drift X	0.000794	20.4	8	6.9
Story2	B234	34	Max Drift Y	0.002457	12.2	20	6.9
Story2	B235POS	18	Max Drift X	0.00069	20.4	8	6.9
Story2	B235POS	34	Max Drift Y	0.001989	12.2	20	6.9
Story2	B235NEG	18	Max Drift X	0.00069	20.4	8	6.9
Story2	B235NEG	34	Max Drift Y	0.001989	12.2	20	6.9
Story2	B236X Max	25	Max Drift X	0.002952	0	15	6.9
Story2	B236X Max	7	Max Drift Y	0.002453	0	5	6.9
Story2	B236X Min	20	Max Drift X	0.002631	5.2	12	6.9
Story2	B236X Min	35	Max Drift Y	0.003026	15.2	20	6.9
Story2	B236Y Max	25	Max Drift X	0.001047	0	15	6.9
Story2	B236Y Max	8	Max Drift Y	0.002573	5.2	5	6.9
Story2	B236Y Min	18	Max Drift X	0.000945	20.4	8	6.9
Story2	B236Y Min	34	Max Drift Y	0.004125	12.2	20	6.9
Story2	B237POS	18	Max Drift X	0.000768	20.4	8	6.9
Story2	B237POS	34	Max Drift Y	0.00234	12.2	20	6.9
Story2	B238X Max	25	Max Drift X	0.002434	0	15	6.9
Story2	B238X Max	7	Max Drift Y	0.001887	0	5	6.9
Story2	B238X Min	18	Max Drift X	0.002073	20.4	8	6.9
Story2	B238X Min	35	Max Drift Y	0.003108	15.2	20	6.9
Story2	B238Y Max	25	Max Drift X	0.001005	0	15	6.9
Story2	B238Y Max	2	Max Drift Y	0.001966	5.2	0	6.9

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story2	B238Y Min	18	Max Drift X	0.000959	20.4	8	6.9
Story2	B238Y Min	34	Max Drift Y	0.003942	12.2	20	6.9
Story2	B239POS	18	Max Drift X	0.000414	20.4	8	6.9
Story2	B239POS	34	Max Drift Y	0.001194	12.2	20	6.9
Story2	B23-10X Max	25	Max Drift X	0.002788	0	15	6.9
Story2	B23-10X Max	7	Max Drift Y	0.002417	0	5	6.9
Story2	B23-10X Min	20	Max Drift X	0.002657	5.2	12	6.9
Story2	B23-10X Min	7	Max Drift Y	0.002309	0	5	6.9
Story2	B23-10Y Max	25	Max Drift X	0.000884	0	15	6.9
Story2	B23-10Y Max	8	Max Drift Y	0.002541	5.2	5	6.9
Story2	B23-10Y Min	38	Max Drift X	0.000816	5.2	23	6.9
Story2	B23-10Y Min	34	Max Drift Y	0.00333	12.2	20	6.9
Story2	B237NEG	18	Max Drift X	0.000768	20.4	8	6.9
Story2	B237NEG	34	Max Drift Y	0.00234	12.2	20	6.9
Story2	B239NEG	18	Max Drift X	0.000414	20.4	8	6.9
Story2	B239NEG	34	Max Drift Y	0.001194	12.2	20	6.9
Story2	VB244NEG	18	Max Drift X	0.00089	20.4	8	6.9
Story2	VB244NEG	34	Max Drift Y	0.002749	12.2	20	6.9
Story2	VB246NEG	18	Max Drift X	0.000585	20.4	8	6.9
Story2	VB246NEG	34	Max Drift Y	0.001661	12.2	20	6.9
Story2	CB246NEG	18	Max Drift X	0.000621	20.4	8	6.9
Story2	CB246NEG	34	Max Drift Y	0.00179	12.2	20	6.9
Story2	C1	18	Max Drift X	0.001104	20.4	8	6.9
Story2	C1	34	Max Drift Y	0.003183	12.2	20	6.9
Story2	C2	18	Max Drift X	0.001143	20.4	8	6.9
Story2	C2	34	Max Drift Y	0.00358	12.2	20	6.9
Story2	C3	18	Max Drift X	0.000829	20.4	8	6.9
Story2	C3	34	Max Drift Y	0.002584	12.2	20	6.9
Story2	C4	18	Max Drift X	0.000592	20.4	8	6.9
Story2	C4	34	Max Drift Y	0.001686	12.2	20	6.9
Story1	DEAD	13	Max Drift X	1E-05	0	8	3.3
Story1	DEAD	13	Max Drift Y	9.2E-05	0	8	3.3
Story1	LR	13	Max Drift X	1E-06	0	8	3.3
Story1	LR	39	Max Drift Y	2E-06	8.2	23	3.3
Story1	LIVE	13	Max Drift X	1E-06	0	8	3.3
Story1	LIVE	13	Max Drift Y	5E-05	0	8	3.3
Story1	1/RX Max	37	Max Drift X	0.003156	0	23	3.3
Story1	1/RX Max	19	Max Drift Y	0.002345	0	12	3.3
Story1	1/RX Min	37	Max Drift X	0.003156	0	23	3.3
Story1	1/RX Min	19	Max Drift Y	0.002345	0	12	3.3
Story1	1/RY Max	37	Max Drift X	0.000929	0	23	3.3
Story1	1/RY Max	25	Max Drift Y	0.001898	0	15	3.3
Story1	1/RY Min	37	Max Drift X	0.000929	0	23	3.3
Story1	1/RY Min	25	Max Drift Y	0.001898	0	15	3.3
Story1	1OMEG/RX Max	37	Max Drift X	0.009467	0	23	3.3

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story1	1OMEG/RX Max	19	Max Drift Y	0.007035	0	12	3.3
Story1	1OMEG/RX Min	37	Max Drift X	0.009467	0	23	3.3
Story1	1OMEG/RX Min	19	Max Drift Y	0.007035	0	12	3.3
Story1	1OMEG/RY Max	37	Max Drift X	0.002788	0	23	3.3
Story1	1OMEG/RY Max	25	Max Drift Y	0.005693	0	15	3.3
Story1	1OMEG/RY Min	37	Max Drift X	0.002788	0	23	3.3
Story1	1OMEG/RY Min	25	Max Drift Y	0.005693	0	15	3.3
Story1	VB241	13	Max Drift X	1.3E-05	0	8	3.3
Story1	VB241	13	Max Drift Y	0.000128	0	8	3.3
Story1	VB242	42	Max Drift X	2.6E-05	20.4	23	3.3
Story1	VB242	16	Max Drift Y	0.001968	12.2	8	3.3
Story1	VB243	13	Max Drift X	1.4E-05	0	8	3.3
Story1	VB243	13	Max Drift Y	0.00016	0	8	3.3
Story1	VB244POS	13	Max Drift X	1.3E-05	0	8	3.3
Story1	VB244POS	13	Max Drift Y	0.00016	0	8	3.3
Story1	VB245X Max	37	Max Drift X	0.00316	0	23	3.3
Story1	VB245X Max	19	Max Drift Y	0.002502	0	12	3.3
Story1	VB245X Min	37	Max Drift X	0.003151	0	23	3.3
Story1	VB245X Min	19	Max Drift Y	0.002188	0	12	3.3
Story1	VB245Y Max	37	Max Drift X	0.000934	0	23	3.3
Story1	VB245Y Max	19	Max Drift Y	0.002053	0	12	3.3
Story1	VB245Y Min	37	Max Drift X	0.000925	0	23	3.3
Story1	VB245Y Min	25	Max Drift Y	0.001743	0	15	3.3
Story1	VB246POS	13	Max Drift X	9E-06	0	8	3.3
Story1	VB246POS	13	Max Drift Y	8.3E-05	0	8	3.3
Story1	VB247X Max	37	Max Drift X	0.003128	0	23	3.3
Story1	VB247X Max	13	Max Drift Y	0.00417	0	8	3.3
Story1	VB247X Min	37	Max Drift X	0.003183	0	23	3.3
Story1	VB247X Min	16	Max Drift Y	0.001176	12.2	8	3.3
Story1	VB247Y Max	38	Max Drift X	0.000902	5.2	23	3.3
Story1	VB247Y Max	13	Max Drift Y	0.003728	0	8	3.3
Story1	VB247Y Min	37	Max Drift X	0.000957	0	23	3.3
Story1	VB247Y Min	16	Max Drift Y	0.000114	12.2	8	3.3
Story1	VB245CORTX Max	37	Max Drift X	0.006316	0	23	3.3
Story1	VB245CORTX Max	19	Max Drift Y	0.004847	0	12	3.3
Story1	VB245CORTX Min	37	Max Drift X	0.006307	0	23	3.3
Story1	VB245CORTX Min	19	Max Drift Y	0.004533	0	12	3.3
Story1	VB245CORTY Max	37	Max Drift X	0.001863	0	23	3.3
Story1	VB245CORTY Max	25	Max Drift Y	0.00395	0	15	3.3
Story1	VB245CORTY Min	37	Max Drift X	0.001855	0	23	3.3
Story1	VB245CORTY Min	25	Max Drift Y	0.00364	0	15	3.3
Story1	VB247CORTX Max	37	Max Drift X	0.006284	0	23	3.3
Story1	VB247CORTX Max	19	Max Drift Y	0.00651	0	12	3.3
Story1	VB247CORTX Min	37	Max Drift X	0.006339	0	23	3.3
Story1	VB247CORTX Min	25	Max Drift Y	0.002871	0	15	3.3

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story1	VB247CORTY Max	37	Max Drift X	0.001831	0	23	3.3
Story1	VB247CORTY Max	13	Max Drift Y	0.005617	0	8	3.3
Story1	VB247CORTY Min	37	Max Drift X	0.001887	0	23	3.3
Story1	VB247CORTY Min	37	Max Drift Y	0.001986	0	23	3.3
Story1	CB241	13	Max Drift X	1.3E-05	0	8	3.3
Story1	CB241	13	Max Drift Y	0.000128	0	8	3.3
Story1	CB242	42	Max Drift X	2.6E-05	20.4	23	3.3
Story1	CB242	16	Max Drift Y	0.001968	12.2	8	3.3
Story1	CB243	13	Max Drift X	1.4E-05	0	8	3.3
Story1	CB243	13	Max Drift Y	0.00016	0	8	3.3
Story1	CB244	13	Max Drift X	1.3E-05	0	8	3.3
Story1	CB244	13	Max Drift Y	0.00016	0	8	3.3
Story1	CB245VX Max	37	Max Drift X	0.003439	0	23	3.3
Story1	CB245VX Max	19	Max Drift Y	0.003071	0	12	3.3
Story1	CB245VX Min	37	Max Drift X	0.00343	0	23	3.3
Story1	CB245VX Min	19	Max Drift Y	0.002757	0	12	3.3
Story1	CB245VY Max	37	Max Drift X	0.00188	0	23	3.3
Story1	CB245VY Max	19	Max Drift Y	0.002757	0	12	3.3
Story1	CB245VY Min	37	Max Drift X	0.001872	0	23	3.3
Story1	CB245VY Min	25	Max Drift Y	0.002445	0	15	3.3
Story1	CB246POS	37	Max Drift X	2.8E-05	0	23	3.3
Story1	CB246POS	16	Max Drift Y	0.001866	12.2	8	3.3
Story1	CB247VX Max	37	Max Drift X	0.003407	0	23	3.3
Story1	CB247VX Max	13	Max Drift Y	0.004737	0	8	3.3
Story1	CB247VX Min	37	Max Drift X	0.003462	0	23	3.3
Story1	CB247VX Min	25	Max Drift Y	0.001098	0	15	3.3
Story1	CB247VY Max	37	Max Drift X	0.001848	0	23	3.3
Story1	CB247VY Max	13	Max Drift Y	0.004427	0	8	3.3
Story1	CB247VY Min	37	Max Drift X	0.001904	0	23	3.3
Story1	CB247VY Min	37	Max Drift Y	0.000788	0	23	3.3
Story1	CB245VCORTX Max	37	Max Drift X	0.010308	0	23	3.3
Story1	CB245VCORTX Max	19	Max Drift Y	0.008898	0	12	3.3
Story1	CB245VCORTX Min	37	Max Drift X	0.010299	0	23	3.3
Story1	CB245VCORTX Min	19	Max Drift Y	0.008585	0	12	3.3
Story1	CB245VCORTY Max	37	Max Drift X	0.005633	0	23	3.3
Story1	CB245VCORTY Max	19	Max Drift Y	0.007957	0	12	3.3
Story1	CB245VCORTY Min	37	Max Drift X	0.005624	0	23	3.3
Story1	CB245VCORTY Min	25	Max Drift Y	0.007646	0	15	3.3
Story1	CB247VCORTX Max	37	Max Drift X	0.010276	0	23	3.3
Story1	CB247VCORTX Max	19	Max Drift Y	0.010562	0	12	3.3
Story1	CB247VCORTX Min	37	Max Drift X	0.010331	0	23	3.3
Story1	CB247VCORTX Min	25	Max Drift Y	0.006921	0	15	3.3
Story1	CB247VCORTY Max	37	Max Drift X	0.0056	0	23	3.3
Story1	CB247VCORTY Max	19	Max Drift Y	0.00962	0	12	3.3
Story1	CB247VCORTY Min	37	Max Drift X	0.005656	0	23	3.3

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story1	CB247VCORTY Min	25	Max Drift Y	0.005988	0	15	3.3
Story1	B231	13	Max Drift X	1E-05	0	8	3.3
Story1	B231	13	Max Drift Y	9.2E-05	0	8	3.3
Story1	B232	13	Max Drift X	1.1E-05	0	8	3.3
Story1	B232	13	Max Drift Y	0.000142	0	8	3.3
Story1	B233	13	Max Drift X	1E-05	0	8	3.3
Story1	B233	13	Max Drift Y	9.2E-05	0	8	3.3
Story1	B234	13	Max Drift X	1.1E-05	0	8	3.3
Story1	B234	13	Max Drift Y	0.000142	0	8	3.3
Story1	B235POS	13	Max Drift X	1E-05	0	8	3.3
Story1	B235POS	13	Max Drift Y	9.2E-05	0	8	3.3
Story1	B235NEG	13	Max Drift X	1E-05	0	8	3.3
Story1	B235NEG	13	Max Drift Y	9.2E-05	0	8	3.3
Story1	B236X Max	37	Max Drift X	0.002212	0	23	3.3
Story1	B236X Max	19	Max Drift Y	0.001732	0	12	3.3
Story1	B236X Min	37	Max Drift X	0.002206	0	23	3.3
Story1	B236X Min	19	Max Drift Y	0.001551	0	12	3.3
Story1	B236Y Max	37	Max Drift X	0.000653	0	23	3.3
Story1	B236Y Max	19	Max Drift Y	0.001418	0	12	3.3
Story1	B236Y Min	37	Max Drift X	0.000648	0	23	3.3
Story1	B236Y Min	25	Max Drift Y	0.001239	0	15	3.3
Story1	B237POS	13	Max Drift X	1.1E-05	0	8	3.3
Story1	B237POS	13	Max Drift Y	0.000129	0	8	3.3
Story1	B238X Max	37	Max Drift X	0.00166	0	23	3.3
Story1	B238X Max	19	Max Drift Y	0.001358	0	12	3.3
Story1	B238X Min	37	Max Drift X	0.001653	0	23	3.3
Story1	B238X Min	25	Max Drift Y	0.001105	0	15	3.3
Story1	B238Y Max	37	Max Drift X	0.000491	0	23	3.3
Story1	B238Y Max	19	Max Drift Y	0.001122	0	12	3.3
Story1	B238Y Min	37	Max Drift X	0.000484	0	23	3.3
Story1	B238Y Min	31	Max Drift Y	0.000871	0	20	3.3
Story1	B239POS	13	Max Drift X	6E-06	0	8	3.3
Story1	B239POS	13	Max Drift Y	5.5E-05	0	8	3.3
Story1	B23-10X Max	37	Max Drift X	0.002211	0	23	3.3
Story1	B23-10X Max	19	Max Drift Y	0.001696	0	12	3.3
Story1	B23-10X Min	37	Max Drift X	0.002207	0	23	3.3
Story1	B23-10X Min	19	Max Drift Y	0.001587	0	12	3.3
Story1	B23-10Y Max	37	Max Drift X	0.000652	0	23	3.3
Story1	B23-10Y Max	25	Max Drift Y	0.001382	0	15	3.3
Story1	B23-10Y Min	37	Max Drift X	0.000649	0	23	3.3
Story1	B23-10Y Min	25	Max Drift Y	0.001275	0	15	3.3
Story1	B237NEG	13	Max Drift X	1.1E-05	0	8	3.3
Story1	B237NEG	13	Max Drift Y	0.000129	0	8	3.3
Story1	B239NEG	13	Max Drift X	6E-06	0	8	3.3
Story1	B239NEG	13	Max Drift Y	5.5E-05	0	8	3.3

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Label	Item	Drift	X m	Y m	Z m
Story1	VB244NEG	13	Max Drift X	1.3E-05	0	8	3.3
Story1	VB244NEG	13	Max Drift Y	0.00016	0	8	3.3
Story1	VB246NEG	37	Max Drift X	2.8E-05	0	23	3.3
Story1	VB246NEG	16	Max Drift Y	0.001866	12.2	8	3.3
Story1	CB246NEG	13	Max Drift X	9E-06	0	8	3.3
Story1	CB246NEG	13	Max Drift Y	8.3E-05	0	8	3.3
Story1	C1	13	Max Drift X	1.5E-05	0	8	3.3
Story1	C1	13	Max Drift Y	0.000147	0	8	3.3
Story1	C2	13	Max Drift X	1.7E-05	0	8	3.3
Story1	C2	13	Max Drift Y	0.000213	0	8	3.3
Story1	C3	42	Max Drift X	2.1E-05	20.4	23	3.3
Story1	C3	16	Max Drift Y	0.001581	12.2	8	3.3
Story1	C4	37	Max Drift X	2.2E-05	0	23	3.3
Story1	C4	16	Max Drift Y	0.00153	12.2	8	3.3

Table 5.3 - Story Forces

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	DEAD	Top	2085.2	0	0	0	22011.134	-20405.8802
Story2	DEAD	Bottom	2380.688	0	0	0	25168.19	-23301.6626
Story2	LR	Top	191.5077	0	0	0	2000.1945	-1906.1727
Story2	LR	Bottom	191.5077	0	0	0	2000.1945	-1906.1727
Story2	LIVE	Top	0	0	0	0	0	0
Story2	LIVE	Bottom	0	0	0	0	0	0
Story2	1/RX Max	Top	0	607.3844	211.019	8956.9832	0	0
Story2	1/RX Max	Bottom	0	607.3844	211.019	8956.9832	759.6686	2186.5839
Story2	1/RX Min	Top	0	-607.3844	-211.019	-8956.9832	0	0
Story2	1/RX Min	Bottom	0	-607.3844	-211.019	-8956.9832	-759.6686	-2186.5839
Story2	1/RY Max	Top	0	119.8212	569.3494	6453.2218	0	0
Story2	1/RY Max	Bottom	0	119.8212	569.3494	6453.2218	2049.658	431.3562
Story2	1/RY Min	Top	0	-119.8212	-569.3494	-6453.2218	0	0
Story2	1/RY Min	Bottom	0	-119.8212	-569.3494	-6453.2218	-2049.658	-431.3562
Story2	1OMEG/RX Max	Top	0	1822.1533	633.0571	26870.9496	0	0
Story2	1OMEG/RX Max	Bottom	0	1822.1533	633.0571	26870.9496	2279.0057	6559.7518
Story2	1OMEG/RX Min	Top	0	-1822.1533	-633.0571	-26870.9496	0	0
Story2	1OMEG/RX Min	Bottom	0	-1822.1533	-633.0571	-26870.9496	-2279.0057	-6559.7518
Story2	1OMEG/RY Max	Top	0	359.4635	1708.0483	19359.6653	0	0
Story2	1OMEG/RY Max	Bottom	0	359.4635	1708.0483	19359.6653	6148.974	1294.0685
Story2	1OMEG/RY Min	Top	0	-359.4635	-1708.0483	-19359.6653	0	0
Story2	1OMEG/RY Min	Bottom	0	-359.4635	-1708.0483	-19359.6653	-6148.974	-1294.0685
Story2	VB241	Top	2919.28	0	0	0	30815.5876	-28568.2322
Story2	VB241	Bottom	3332.9632	0	0	0	35235.466	-32622.3276
Story2	VB242	Top	2597.9939	0	0	0	27413.458	-25440.1425
Story2	VB242	Bottom	2952.5795	0	0	0	31201.9252	-28915.0814
Story2	VB243	Top	2808.6524	0	0	0	29613.672	-27536.9324

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	VB243	Bottom	3163.238	0	0	0	33402.1392	-31011.8713
Story2	VB244POS	Top	2597.9939	0	0	0	27413.458	-25440.1425
Story2	VB244POS	Bottom	2952.5795	0	0	0	31201.9252	-28915.0814
Story2	VB245X Max	Top	2502.24	607.3844	211.019	8956.9832	26413.3608	-24487.0562
Story2	VB245X Max	Bottom	2856.8256	607.3844	211.019	8956.9832	30961.4966	-25775.4111
Story2	VB245X Min	Top	2502.24	-607.3844	-211.019	-8956.9832	26413.3608	-24487.0562
Story2	VB245X Min	Bottom	2856.8256	-607.3844	-211.019	-8956.9832	29442.1594	-30148.579
Story2	VB245Y Max	Top	2502.24	119.8212	569.3494	6453.2218	26413.3608	-24487.0562
Story2	VB245Y Max	Bottom	2856.8256	119.8212	569.3494	6453.2218	32251.486	-27530.6389
Story2	VB245Y Min	Top	2502.24	-119.8212	-569.3494	-6453.2218	26413.3608	-24487.0562
Story2	VB245Y Min	Bottom	2856.8256	-119.8212	-569.3494	-6453.2218	28152.17	-28393.3512
Story2	VB246POS	Top	1876.68	0	0	0	19810.0206	-18365.2921
Story2	VB246POS	Bottom	2142.6192	0	0	0	22651.371	-20971.4963
Story2	VB247X Max	Top	1876.68	607.3844	211.019	8956.9832	19810.0206	-18365.2921
Story2	VB247X Max	Bottom	2142.6192	607.3844	211.019	8956.9832	23411.0396	-18784.9124
Story2	VB247X Min	Top	1876.68	-607.3844	-211.019	-8956.9832	19810.0206	-18365.2921
Story2	VB247X Min	Bottom	2142.6192	-607.3844	-211.019	-8956.9832	21891.7024	-23158.0802
Story2	VB247Y Max	Top	1876.68	119.8212	569.3494	6453.2218	19810.0206	-18365.2921
Story2	VB247Y Max	Bottom	2142.6192	119.8212	569.3494	6453.2218	24701.029	-20540.1401
Story2	VB247Y Min	Top	1876.68	-119.8212	-569.3494	-6453.2218	19810.0206	-18365.2921
Story2	VB247Y Min	Bottom	2142.6192	-119.8212	-569.3494	-6453.2218	20601.713	-21402.8525
Story2	VB245CORTX Max	Top	2502.24	1214.7689	422.0381	17913.9664	26413.3608	-24487.0562
Story2	VB245CORTX Max	Bottom	2856.8256	1214.7689	422.0381	17913.9664	31721.1651	-23588.8272
Story2	VB245CORTX Min	Top	2502.24	-1214.7689	-422.0381	-17913.9664	26413.3608	-24487.0562
Story2	VB245CORTX Min	Bottom	2856.8256	-1214.7689	-422.0381	-17913.9664	28682.4909	-32335.1629
Story2	VB245CORTY Max	Top	2502.24	239.6423	1138.6989	12906.4435	26413.3608	-24487.0562
Story2	VB245CORTY Max	Bottom	2856.8256	239.6423	1138.6989	12906.4435	34301.144	-27099.2827
Story2	VB245CORTY Min	Top	2502.24	-239.6423	-1138.6989	-12906.4435	26413.3608	-24487.0562
Story2	VB245CORTY Min	Bottom	2856.8256	-239.6423	-1138.6989	-12906.4435	26102.512	-28824.7074
Story2	VB247CORTX Max	Top	1876.68	1214.7689	422.0381	17913.9664	19810.0206	-18365.2921
Story2	VB247CORTX Max	Bottom	2142.6192	1214.7689	422.0381	17913.9664	24170.7081	-16598.3284
Story2	VB247CORTX Min	Top	1876.68	-1214.7689	-422.0381	-17913.9664	19810.0206	-18365.2921
Story2	VB247CORTX Min	Bottom	2142.6192	-1214.7689	-422.0381	-17913.9664	21132.0339	-25344.6642
Story2	VB247CORTY Max	Top	1876.68	239.6423	1138.6989	12906.4435	19810.0206	-18365.2921
Story2	VB247CORTY Max	Bottom	2142.6192	239.6423	1138.6989	12906.4435	26750.687	-20108.784
Story2	VB247CORTY Min	Top	1876.68	-239.6423	-1138.6989	-12906.4435	19810.0206	-18365.2921
Story2	VB247CORTY Min	Bottom	2142.6192	-239.6423	-1138.6989	-12906.4435	18552.055	-21834.2086
Story2	CB241	Top	2919.28	0	0	0	30815.5876	-28568.2322
Story2	CB241	Bottom	3332.9632	0	0	0	35235.466	-32622.3276
Story2	CB242	Top	2597.9939	0	0	0	27413.458	-25440.1425
Story2	CB242	Bottom	2952.5795	0	0	0	31201.9252	-28915.0814
Story2	CB243	Top	2808.6524	0	0	0	29613.672	-27536.9324
Story2	CB243	Bottom	3163.238	0	0	0	33402.1392	-31011.8713
Story2	CB244	Top	2597.9939	0	0	0	27413.458	-25440.1425
Story2	CB244	Bottom	2952.5795	0	0	0	31201.9252	-28915.0814

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	CB245VX Max	Top	2502.24	643.3308	381.8239	10892.9497	26413.3608	-24487.0562
Story2	CB245VX Max	Bottom	2856.8256	643.3308	381.8239	10892.9497	31576.394	-25646.0043
Story2	CB245VX Min	Top	2502.24	-643.3308	-381.8239	-10892.9497	26413.3608	-24487.0562
Story2	CB245VX Min	Bottom	2856.8256	-643.3308	-381.8239	-10892.9497	28827.262	-30277.9858
Story2	CB245VY Max	Top	2502.24	302.0365	632.6552	9140.3167	26413.3608	-24487.0562
Story2	CB245VY Max	Bottom	2856.8256	302.0365	632.6552	9140.3167	32479.3866	-26874.6637
Story2	CB245VY Min	Top	2502.24	-302.0365	-632.6552	-9140.3167	26413.3608	-24487.0562
Story2	CB245VY Min	Bottom	2856.8256	-302.0365	-632.6552	-9140.3167	27924.2694	-29049.3264
Story2	CB246POS	Top	1876.68	0	0	0	19810.0206	-18365.2921
Story2	CB246POS	Bottom	2142.6192	0	0	0	22651.371	-20971.4963
Story2	CB247VX Max	Top	1876.68	643.3308	381.8239	10892.9497	19810.0206	-18365.2921
Story2	CB247VX Max	Bottom	2142.6192	643.3308	381.8239	10892.9497	24025.937	-18655.5055
Story2	CB247VX Min	Top	1876.68	-643.3308	-381.8239	-10892.9497	19810.0206	-18365.2921
Story2	CB247VX Min	Bottom	2142.6192	-643.3308	-381.8239	-10892.9497	21276.805	-23287.4871
Story2	CB247VY Max	Top	1876.68	302.0365	632.6552	9140.3167	19810.0206	-18365.2921
Story2	CB247VY Max	Bottom	2142.6192	302.0365	632.6552	9140.3167	24928.9296	-19884.1649
Story2	CB247VY Min	Top	1876.68	-302.0365	-632.6552	-9140.3167	19810.0206	-18365.2921
Story2	CB247VY Min	Bottom	2142.6192	-302.0365	-632.6552	-9140.3167	20373.8124	-22058.8276
Story2	CB245VCORTX Max	Top	2502.24	1929.9923	1145.4716	32678.8491	26413.3608	-24487.0562
Story2	CB245VCORTX Max	Bottom	2856.8256	1929.9923	1145.4716	32678.8491	34325.5259	-21014.0227
Story2	CB245VCORTX Min	Top	2502.24	-1929.9923	-1145.4716	-32678.8491	26413.3608	-24487.0562
Story2	CB245VCORTX Min	Bottom	2856.8256	-1929.9923	-1145.4716	-32678.8491	26078.1301	-34909.9674
Story2	CB245VCORTY Max	Top	2502.24	906.1095	1897.9655	27420.9501	26413.3608	-24487.0562
Story2	CB245VCORTY Max	Bottom	2856.8256	906.1095	1897.9655	27420.9501	37034.5037	-24700.001
Story2	CB245VCORTY Min	Top	2502.24	-906.1095	-1897.9655	-27420.9501	26413.3608	-24487.0562
Story2	CB245VCORTY Min	Bottom	2856.8256	-906.1095	-1897.9655	-27420.9501	23369.1523	-31223.9891
Story2	CB247VCORTX Max	Top	1876.68	1929.9923	1145.4716	32678.8491	19810.0206	-18365.2921
Story2	CB247VCORTX Max	Bottom	2142.6192	1929.9923	1145.4716	32678.8491	26775.0689	-14023.5239
Story2	CB247VCORTX Min	Top	1876.68	-1929.9923	-1145.4716	-32678.8491	19810.0206	-18365.2921
Story2	CB247VCORTX Min	Bottom	2142.6192	-1929.9923	-1145.4716	-32678.8491	18527.6731	-27919.4686
Story2	CB247VCORTY Max	Top	1876.68	906.1095	1897.9655	27420.9501	19810.0206	-18365.2921
Story2	CB247VCORTY Max	Bottom	2142.6192	906.1095	1897.9655	27420.9501	29484.0467	-17709.5023
Story2	CB247VCORTY Min	Top	1876.68	-906.1095	-1897.9655	-27420.9501	19810.0206	-18365.2921
Story2	CB247VCORTY Min	Bottom	2142.6192	-906.1095	-1897.9655	-27420.9501	15818.6953	-24233.4903
Story2	B231	Top	2085.2	0	0	0	22011.134	-20405.8802
Story2	B231	Bottom	2380.688	0	0	0	25168.19	-23301.6626
Story2	B232	Top	2085.2	0	0	0	22011.134	-20405.8802
Story2	B232	Bottom	2380.688	0	0	0	25168.19	-23301.6626
Story2	B233	Top	2276.7077	0	0	0	24011.3285	-22312.0528
Story2	B233	Bottom	2572.1957	0	0	0	27168.3845	-25207.8352
Story2	B234	Top	2276.7077	0	0	0	24011.3285	-22312.0528
Story2	B234	Bottom	2572.1957	0	0	0	27168.3845	-25207.8352
Story2	B235POS	Top	2085.2	0	0	0	22011.134	-20405.8802
Story2	B235POS	Bottom	2380.688	0	0	0	25168.19	-23301.6626
Story2	B235NEG	Top	2085.2	0	0	0	22011.134	-20405.8802

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	B235NEG	Bottom	2380.688	0	0	0	25168.19	-23301.6626
Story2	B236X Max	Top	2085.2	425.1691	147.7133	6269.8882	22011.134	-20405.8801
Story2	B236X Max	Bottom	2380.688	425.1691	147.7133	6269.8882	25699.958	-21771.0538
Story2	B236X Min	Top	2085.2	-425.1691	-147.7133	-6269.8882	22011.134	-20405.8802
Story2	B236X Min	Bottom	2380.688	-425.1691	-147.7133	-6269.8882	24636.422	-24832.2713
Story2	B236Y Max	Top	2085.2	83.8748	398.5446	4517.2552	22011.134	-20405.8801
Story2	B236Y Max	Bottom	2380.688	83.8748	398.5446	4517.2552	26602.9506	-22999.7132
Story2	B236Y Min	Top	2085.2	-83.8748	-398.5446	-4517.2552	22011.134	-20405.8802
Story2	B236Y Min	Bottom	2380.688	-83.8748	-398.5446	-4517.2552	23733.4294	-23603.6119
Story2	B237POS	Top	2228.8308	0	0	0	23511.2799	-21835.5096
Story2	B237POS	Bottom	2524.3188	0	0	0	26668.3359	-24731.292
Story2	B238X Max	Top	2228.8308	318.8768	110.785	4702.4162	23511.2799	-21835.5096
Story2	B238X Max	Bottom	2524.3188	318.8768	110.785	4702.4162	27067.1619	-23583.3355
Story2	B238X Min	Top	2228.8308	-318.8768	-110.785	-4702.4162	23511.2799	-21835.5096
Story2	B238X Min	Bottom	2524.3188	-318.8768	-110.785	-4702.4162	26269.5099	-25879.2486
Story2	B238Y Max	Top	2228.8308	62.9061	298.9085	3387.9414	23511.2799	-21835.5096
Story2	B238Y Max	Bottom	2524.3188	62.9061	298.9085	3387.9414	27744.4063	-24504.8301
Story2	B238Y Min	Top	2228.8308	-62.9061	-298.9085	-3387.9414	23511.2799	-21835.5096
Story2	B238Y Min	Bottom	2524.3188	-62.9061	-298.9085	-3387.9414	25592.2654	-24957.754
Story2	B239POS	Top	1251.12	0	0	0	13206.6804	-12243.5281
Story2	B239POS	Bottom	1428.4128	0	0	0	15100.914	-13980.9975
Story2	B23-10X Max	Top	1251.12	425.1691	147.7133	6269.8882	13206.6804	-12243.5281
Story2	B23-10X Max	Bottom	1428.4128	425.1691	147.7133	6269.8882	15632.682	-12450.3888
Story2	B23-10X Min	Top	1251.12	-425.1691	-147.7133	-6269.8882	13206.6804	-12243.5281
Story2	B23-10X Min	Bottom	1428.4128	-425.1691	-147.7133	-6269.8882	14569.146	-15511.6063
Story2	B23-10Y Max	Top	1251.12	83.8748	398.5446	4517.2552	13206.6804	-12243.5281
Story2	B23-10Y Max	Bottom	1428.4128	83.8748	398.5446	4517.2552	16535.6746	-13679.0482
Story2	B23-10Y Min	Top	1251.12	-83.8748	-398.5446	-4517.2552	13206.6804	-12243.5281
Story2	B23-10Y Min	Bottom	1428.4128	-83.8748	-398.5446	-4517.2552	13666.1534	-14282.9468
Story2	B237NEG	Top	2228.8308	0	0	0	23511.2799	-21835.5096
Story2	B237NEG	Bottom	2524.3188	0	0	0	26668.3359	-24731.292
Story2	B239NEG	Top	1251.12	0	0	0	13206.6804	-12243.5281
Story2	B239NEG	Bottom	1428.4128	0	0	0	15100.914	-13980.9975
Story2	VB244NEG	Top	2597.9939	0	0	0	27413.458	-25440.1425
Story2	VB244NEG	Bottom	2952.5795	0	0	0	31201.9252	-28915.0814
Story2	VB246NEG	Top	1876.68	0	0	0	19810.0206	-18365.2921
Story2	VB246NEG	Bottom	2142.6192	0	0	0	22651.371	-20971.4963
Story2	CB246NEG	Top	1876.68	0	0	0	19810.0206	-18365.2921
Story2	CB246NEG	Bottom	2142.6192	0	0	0	22651.371	-20971.4963
Story2	C1	Top	3336.32	0	0	0	35217.8144	-32649.4082
Story2	C1	Bottom	3809.1008	0	0	0	40269.104	-37282.6601
Story2	C2	Top	3244.8431	0	0	0	34215.9182	-31808.7257
Story2	C2	Bottom	3658.5263	0	0	0	38635.7966	-35862.8211
Story2	C3	Top	2434.5899	0	0	0	25671.9396	-23866.0752
Story2	C3	Bottom	2744.8523	0	0	0	28986.8484	-26906.6467

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	C4	Top	1876.68	0	0	0	19810.0206	-18365.2921
Story2	C4	Bottom	2142.6192	0	0	0	22651.371	-20971.4963
Story1	DEAD	Top	4482.8433	-0.3504	1.5151	42.39	66151.3798	-42620.7415
Story1	DEAD	Bottom	5019.8193	-0.3504	1.5151	42.39	72067.372	-48099.0529
Story1	LR	Top	142.9126	-0.0109	-0.165	1.1555	2112.1144	-1443.759
Story1	LR	Bottom	142.9126	-0.0109	-0.165	1.1555	2112.6589	-1443.7949
Story1	LIVE	Top	1368.9065	-0.0866	2.7528	33.8455	20215.0548	-13489.9092
Story1	LIVE	Bottom	1368.9065	-0.0866	2.7528	33.8455	20205.9706	-13490.1949
Story1	1/RX Max	Top	20.3877	917.0407	282.7396	16280.1444	513.8447	1435.9259
Story1	1/RX Max	Bottom	20.3877	917.0407	282.7396	16280.1444	1438.9529	4209.4852
Story1	1/RX Min	Top	-20.3877	-917.0407	-282.7396	-16280.1444	-513.8447	-1435.9259
Story1	1/RX Min	Bottom	-20.3877	-917.0407	-282.7396	-16280.1444	-1438.9529	-4209.4852
Story1	1/RY Max	Top	55.1967	225.5676	779.0125	9529.0917	1437.0881	545.2872
Story1	1/RY Max	Bottom	55.1967	225.5676	779.0125	9529.0917	3905.2227	1065.7775
Story1	1/RY Min	Top	-55.1967	-225.5676	-779.0125	-9529.0917	-1437.0881	-545.2872
Story1	1/RY Min	Bottom	-55.1967	-225.5676	-779.0125	-9529.0917	-3905.2227	-1065.7775
Story1	1OMEG/RX Max	Top	61.163	2751.122	848.2189	48840.4332	1541.5342	4307.7777
Story1	1OMEG/RX Max	Bottom	61.163	2751.122	848.2189	48840.4332	4316.8586	12628.4556
Story1	1OMEG/RX Min	Top	-61.163	-2751.122	-848.2189	-48840.4332	-1541.5342	-4307.7777
Story1	1OMEG/RX Min	Bottom	-61.163	-2751.122	-848.2189	-48840.4332	-4316.8586	-12628.4556
Story1	1OMEG/RY Max	Top	165.59	676.7029	2337.0374	28587.2752	4311.2644	1635.8616
Story1	1OMEG/RY Max	Bottom	165.59	676.7029	2337.0374	28587.2752	11715.6681	3197.3326
Story1	1OMEG/RY Min	Top	-165.59	-676.7029	-2337.0374	-28587.2752	-4311.2644	-1635.8616
Story1	1OMEG/RY Min	Bottom	-165.59	-676.7029	-2337.0374	-28587.2752	-11715.6681	-3197.3326
Story1	VB241	Top	6275.9806	-0.4905	2.1211	59.346	92611.9318	-59669.038
Story1	VB241	Bottom	7027.747	-0.4905	2.1211	59.346	100894.3209	-67338.674
Story1	VB242	Top	7648.208	-1.283	100.0786	992.32	112512.7376	-73539.325
Story1	VB242	Bottom	8292.5792	-1.283	-1782.7271	-18212.2988	122394.298	-80116.145
Story1	VB243	Top	6976.9785	-0.5244	4.3069	86.5623	102976.0936	-66944.8133
Story1	VB243	Bottom	7621.3497	-0.5244	4.3069	86.5623	110067.0714	-73519.1302
Story1	VB244POS	Top	6819.7747	-0.5125	4.4884	85.2913	100652.7678	-65356.6784
Story1	VB244POS	Bottom	7464.1459	-0.5125	4.4884	85.2913	107743.1465	-71930.9558
Story1	VB245X Max	Top	6768.7061	916.5336	287.3105	16364.8579	100110.5553	-63198.873
Story1	VB245X Max	Bottom	7413.0773	916.5336	287.3105	16364.8579	108125.7699	-66999.5732
Story1	VB245X Min	Top	6727.9307	-917.5477	-278.1688	-16195.4309	99082.8658	-66070.7248
Story1	VB245X Min	Bottom	7372.3019	-917.5477	-278.1688	-16195.4309	105247.8642	-75418.5436
Story1	VB245Y Max	Top	6803.5151	225.0606	783.5833	9613.8053	101033.7987	-64089.5117
Story1	VB245Y Max	Bottom	7447.8863	225.0606	783.5833	9613.8053	110592.0398	-70143.2809
Story1	VB245Y Min	Top	6693.1217	-226.0747	-774.4416	-9444.3782	98159.6225	-65180.0861
Story1	VB245Y Min	Bottom	7337.4929	-226.0747	-774.4416	-9444.3782	102781.5944	-72274.8359
Story1	VB246POS	Top	4034.5589	-0.3153	1.3636	38.151	59536.2418	-38358.6673
Story1	VB246POS	Bottom	4517.8373	-0.3153	1.3636	38.151	64860.6348	-43289.1476
Story1	VB247X Max	Top	4062.0361	916.0068	378.0418	17205.0168	59781.0235	-37011.4424
Story1	VB247X Max	Bottom	4545.3145	916.0068	-1504.764	-1999.602	68827.1569	-39170.7346
Story1	VB247X Min	Top	4021.2608	-918.0746	-187.4375	-15355.272	58753.3341	-39883.2942

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	VB247X Min	Bottom	4504.5392	-918.0746	-2070.2432	-34559.8908	65949.2511	-47589.7051
Story1	VB247Y Max	Top	4096.8451	224.5337	874.3146	10453.9641	60704.2669	-37902.0811
Story1	VB247Y Max	Bottom	4580.1235	224.5337	-1008.4911	-8750.6546	71293.4267	-42314.4423
Story1	VB247Y Min	Top	3986.4517	-226.6015	-683.7103	-8604.2193	57830.0907	-38992.6555
Story1	VB247Y Min	Bottom	4469.7301	-226.6015	-2566.5161	-27808.8381	63482.9813	-44445.9974
Story1	VB245CORTX Max	Top	6789.0937	1833.5743	570.0502	32645.0023	100624.4	-61762.9471
Story1	VB245CORTX Max	Bottom	7433.4649	1833.5743	570.0502	32645.0023	109564.7228	-62790.088
Story1	VB245CORTX Min	Top	6707.5431	-1834.5884	-560.9084	-32475.5753	98569.0211	-67506.6508
Story1	VB245CORTX Min	Bottom	7351.9143	-1834.5884	-560.9084	-32475.5753	103808.9113	-79628.0288
Story1	VB245CORTY Max	Top	6858.7118	450.6282	1562.5958	19142.897	102470.8868	-63544.2245
Story1	VB245CORTY Max	Bottom	7503.083	450.6282	1562.5958	19142.897	114497.2624	-69077.5034
Story1	VB245CORTY Min	Top	6637.925	-451.6423	-1553.454	-18973.4699	96722.5343	-65725.3734
Story1	VB245CORTY Min	Bottom	7282.2962	-451.6423	-1553.454	-18973.4699	98876.3717	-73340.6134
Story1	VB247CORTX Max	Top	4082.4238	1833.0474	660.7814	33485.1612	60294.8683	-35575.5165
Story1	VB247CORTX Max	Bottom	4565.7022	1833.0474	-1222.0243	14280.5424	70266.1097	-34961.2494
Story1	VB247CORTX Min	Top	4000.8731	-1835.1152	-470.1771	-31635.4164	58239.4893	-41319.2201
Story1	VB247CORTX Min	Bottom	4484.1515	-1835.1152	-2352.9829	-50840.0352	64510.2982	-51799.1903
Story1	VB247CORTY Max	Top	4152.0418	450.1014	1653.3271	19983.0559	62141.3551	-37356.7939
Story1	VB247CORTY Max	Bottom	4635.3202	450.1014	-229.4787	778.4371	75198.6494	-41248.6648
Story1	VB247CORTY Min	Top	3931.2551	-452.1691	-1462.7228	-18133.3111	56393.0026	-39537.9427
Story1	VB247CORTY Min	Bottom	4414.5335	-452.1691	-3345.5285	-37337.9298	59577.7586	-45511.7749
Story1	CB241	Top	6275.9806	-0.4905	2.1211	59.346	92611.9318	-59669.038
Story1	CB241	Bottom	7027.747	-0.4905	2.1211	59.346	100894.3209	-67338.674
Story1	CB242	Top	7648.208	-1.283	100.0786	992.32	112512.7376	-73539.325
Story1	CB242	Bottom	8292.5792	-1.283	-1782.7271	-18212.2988	122394.298	-80116.145
Story1	CB243	Top	6976.9785	-0.5244	4.3069	86.5623	102976.0936	-66944.8133
Story1	CB243	Bottom	7621.3497	-0.5244	4.3069	86.5623	110067.0714	-73519.1302
Story1	CB244	Top	6819.7747	-0.5125	4.4884	85.2913	100652.7678	-65356.6784
Story1	CB244	Bottom	7464.1459	-0.5125	4.4884	85.2913	107743.1465	-71930.9558
Story1	CB245VX Max	Top	6785.2651	984.2039	521.0143	19223.5855	100541.6817	-63035.2869
Story1	CB245VX Max	Bottom	7429.6363	984.2039	521.0143	19223.5855	109297.3367	-66679.8399
Story1	CB245VX Min	Top	6711.3717	-985.218	-511.8725	-19054.1584	98651.7394	-66234.311
Story1	CB245VX Min	Bottom	7355.7429	-985.218	-511.8725	-19054.1584	104076.2974	-75738.2769
Story1	CB245VY Max	Top	6809.6314	500.1728	868.4052	14497.8486	101187.9521	-63658.734
Story1	CB245VY Max	Bottom	7454.0026	500.1728	868.4052	14497.8486	111023.7256	-68880.4353
Story1	CB245VY Min	Top	6687.0054	-501.1869	-859.2635	-14328.4215	98005.469	-65610.8639
Story1	CB245VY Min	Bottom	7331.3766	-501.1869	-859.2635	-14328.4215	102349.9085	-73537.6815
Story1	CB246POS	Top	4041.6484	-1.0339	95.3022	924.8724	59267.1788	-38447.3683
Story1	CB246POS	Bottom	4524.9268	-1.0339	-1787.5036	-18279.7464	67388.204	-43380.2198
Story1	CB247VX Max	Top	4078.5951	983.6771	611.7455	20063.7443	60212.15	-36847.8562
Story1	CB247VX Max	Bottom	4561.8735	983.6771	-1271.0602	859.1256	69998.7237	-38851.0014
Story1	CB247VX Min	Top	4004.7018	-985.7448	-421.1412	-18213.9995	58322.2076	-40046.8804
Story1	CB247VX Min	Bottom	4487.9802	-985.7448	-2303.947	-37418.6183	64777.6843	-47909.4383
Story1	CB247VY Max	Top	4102.9614	499.6459	959.1365	15338.0075	60858.4204	-37471.3033
Story1	CB247VY Max	Bottom	4586.2398	499.6459	-923.6692	-3866.6113	71725.1125	-41051.5968

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	CB247VY Min	Top	3980.3354	-501.7137	-768.5322	-13488.2627	57675.9373	-39423.4333
Story1	CB247VY Min	Bottom	4463.6138	-501.7137	-2651.338	-32692.8814	63051.2954	-45708.8429
Story1	CB245VCORTX Max	Top	6859.1584	2953.6258	1553.901	57501.3293	102431.6241	-59836.2627
Story1	CB245VCORTX Max	Bottom	7503.5296	2953.6258	1553.901	57501.3293	114518.3761	-57621.403
Story1	CB245VCORTX Min	Top	6637.4784	-2954.6399	-1544.7593	-57331.9022	96761.7971	-69433.3351
Story1	CB245VCORTX Min	Bottom	7281.8496	-2954.6399	-1544.7593	-57331.9022	98855.258	-84796.7138
Story1	CB245VCORTY Max	Top	6932.2573	1501.5324	2596.0739	43324.1187	104370.4352	-61706.604
Story1	CB245VCORTY Max	Bottom	7576.6285	1501.5324	2596.0739	43324.1187	119697.5427	-64223.1891
Story1	CB245VCORTY Min	Top	6564.3795	-1502.5465	-2586.9322	-43154.6916	94822.986	-67562.9939
Story1	CB245VCORTY Min	Bottom	7208.7507	-1502.5465	-2586.9322	-43154.6916	93676.0914	-78194.9277
Story1	CB247VCORTX Max	Top	4152.4884	2953.099	1644.6323	58341.4882	62102.0923	-33648.8321
Story1	CB247VCORTX Max	Bottom	4635.7668	2953.099	-238.1735	39136.8694	75219.763	-29792.5644
Story1	CB247VCORTX Min	Top	3930.8084	-2955.1668	-1454.028	-56491.7434	56432.2653	-43245.9045
Story1	CB247VCORTX Min	Bottom	4414.0868	-2955.1668	-3336.8337	-75696.3621	59556.6449	-56967.8752
Story1	CB247VCORTY Max	Top	4225.5874	1501.0056	2686.8052	44164.2776	64040.9034	-35519.1734
Story1	CB247VCORTY Max	Bottom	4708.8658	1501.0056	803.9995	24959.6588	80398.9296	-36394.3506
Story1	CB247VCORTY Min	Top	3857.7095	-1503.0734	-2496.2009	-42314.5328	54493.4542	-41375.5633
Story1	CB247VCORTY Min	Bottom	4340.9879	-1503.0734	-4379.0067	-61519.1515	54377.4783	-50366.0891
Story1	B231	Top	4482.8433	-0.3504	1.5151	42.39	66151.3798	-42620.7415
Story1	B231	Bottom	5019.8193	-0.3504	1.5151	42.39	72067.372	-48099.0529
Story1	B232	Top	5851.7497	-0.437	4.2679	76.2355	86366.4346	-56110.6506
Story1	B232	Bottom	6388.7257	-0.437	4.2679	76.2355	92273.3427	-61589.2478
Story1	B233	Top	4625.7558	-0.3612	1.3501	43.5455	68263.4942	-44064.5004
Story1	B233	Bottom	5162.7318	-0.3612	1.3501	43.5455	74180.031	-49542.8477
Story1	B234	Top	5994.6623	-0.4478	4.1029	77.391	88478.549	-57554.4096
Story1	B234	Bottom	6531.6383	-0.4478	4.1029	77.391	94386.0016	-63033.0427
Story1	B235POS	Top	4482.8433	-0.3504	1.5151	42.39	66151.3798	-42620.7415
Story1	B235POS	Bottom	5019.8193	-0.3504	1.5151	42.39	72067.372	-48099.0529
Story1	B235NEG	Top	4482.8433	-0.3504	1.5151	42.39	66151.3798	-42620.7415
Story1	B235NEG	Bottom	5019.8193	-0.3504	1.5151	42.39	72067.372	-48099.0529
Story1	B236X Max	Top	4497.1146	641.5781	199.4328	11438.4911	66511.0711	-41615.5933
Story1	B236X Max	Bottom	5034.0906	641.5781	199.4328	11438.4911	73074.6391	-45152.4132
Story1	B236X Min	Top	4468.5719	-642.2788	-196.4027	-11353.7111	65791.6885	-43625.8896
Story1	B236X Min	Bottom	5005.5479	-642.2788	-196.4027	-11353.7111	71060.105	-51045.6925
Story1	B236Y Max	Top	4521.4809	157.547	546.8238	6712.7542	67157.3415	-42239.0404
Story1	B236Y Max	Bottom	5058.4569	157.547	546.8238	6712.7542	74801.0279	-47353.0086
Story1	B236Y Min	Top	4444.2056	-158.2477	-543.7936	-6627.9742	65145.4181	-43002.4425
Story1	B236Y Min	Bottom	4981.1816	-158.2477	-543.7936	-6627.9742	69333.7162	-48845.0971
Story1	B237POS	Top	5616.7076	-0.4235	3.4559	68.6407	82896.7567	-53820.9926
Story1	B237POS	Bottom	6153.6836	-0.4235	3.4559	68.6407	88806.3442	-59299.5452
Story1	B238X Max	Top	5627.4111	481.0229	151.8942	8615.7166	83166.5252	-53067.1315
Story1	B238X Max	Bottom	6164.3871	481.0229	151.8942	8615.7166	89561.7945	-57089.5655
Story1	B238X Min	Top	5606.004	-481.8698	-144.9824	-8478.4351	82626.9882	-54574.8537
Story1	B238X Min	Bottom	6142.98	-481.8698	-144.9824	-8478.4351	88050.8939	-61509.525
Story1	B238Y Max	Top	5645.6858	117.9995	412.4375	5071.4139	83651.228	-53534.7168

Table 5.3 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	B238Y Max	Bottom	6182.6618	117.9995	412.4375	5071.4139	90856.5861	-58740.012
Story1	B238Y Min	Top	5587.7293	-118.8465	-405.5256	-4934.1324	82142.2855	-54107.2684
Story1	B238Y Min	Bottom	6124.7053	-118.8465	-405.5256	-4934.1324	86756.1023	-59859.0784
Story1	B239POS	Top	2689.706	-0.2102	0.9091	25.434	39690.8279	-25572.4449
Story1	B239POS	Bottom	3011.8916	-0.2102	0.9091	25.434	43240.4232	-28859.4317
Story1	B23-10X Max	Top	2703.9773	641.7182	198.8268	11421.5351	40050.5192	-24567.2967
Story1	B23-10X Max	Bottom	3026.1629	641.7182	198.8268	11421.5351	44247.6902	-25912.7921
Story1	B23-10X Min	Top	2675.4346	-642.1387	-197.0087	-11370.6671	39331.1366	-26577.593
Story1	B23-10X Min	Bottom	2997.6202	-642.1387	-197.0087	-11370.6671	42233.1562	-31806.0714
Story1	B23-10Y Max	Top	2728.3436	157.6871	546.2178	6695.7982	40696.7896	-25190.7438
Story1	B23-10Y Max	Bottom	3050.5292	157.6871	546.2178	6695.7982	45974.0791	-28113.3875
Story1	B23-10Y Min	Top	2651.0683	-158.1076	-544.3997	-6644.9302	38684.8662	-25954.1459
Story1	B23-10Y Min	Bottom	2973.2539	-158.1076	-544.3997	-6644.9302	40506.7673	-29605.476
Story1	B237NEG	Top	5616.7076	-0.4235	3.4559	68.6407	82896.7567	-53820.9926
Story1	B237NEG	Bottom	6153.6836	-0.4235	3.4559	68.6407	88806.3442	-59299.5452
Story1	B239NEG	Top	2689.706	-0.2102	0.9091	25.434	39690.8279	-25572.4449
Story1	B239NEG	Bottom	3011.8916	-0.2102	0.9091	25.434	43240.4232	-28859.4317
Story1	VB244NEG	Top	6819.7747	-0.5125	4.4884	85.2913	100652.7678	-65356.6784
Story1	VB244NEG	Bottom	7464.1459	-0.5125	4.4884	85.2913	107743.1465	-71930.9558
Story1	VB246NEG	Top	4041.6484	-1.0339	95.3022	924.8724	59267.1788	-38447.3683
Story1	VB246NEG	Bottom	4524.9268	-1.0339	-1787.5036	-18279.7464	67388.204	-43380.2198
Story1	CB246NEG	Top	4034.5589	-0.3153	1.3636	38.151	59536.2418	-38358.6673
Story1	CB246NEG	Bottom	4517.8373	-0.3153	1.3636	38.151	64860.6348	-43289.1476
Story1	C1	Top	7172.5492	-0.5606	2.4241	67.824	105842.2077	-68193.1863
Story1	C1	Bottom	8031.7108	-0.5606	2.4241	67.824	115307.7953	-76958.4846
Story1	C2	Top	8846.0729	-0.6562	6.5203	118.8477	130568.1194	-85056.274
Story1	C2	Bottom	9597.8393	-0.6562	6.5203	118.8477	138835.9911	-92726.4567
Story1	C3	Top	6647.7854	-1.0675	80.0541	798.6879	97822.4749	-63937.8346
Story1	C3	Bottom	7211.6102	-1.0675	-1426.1906	-14565.0071	106260.6418	-69692.3703
Story1	C4	Top	4040.3192	-0.8992	77.6887	758.6121	59317.6281	-38430.7369
Story1	C4	Bottom	4523.5976	-0.8992	-1452.091	-14845.1406	66914.2848	-43363.1438

5.3 Point Results

Table 5.4 - Joint Reactions

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	1	15	DEAD	3.8295	3.1899	42.152	-3.1674	4.4676	0.2508
Story1	1	15	LR	0.2553	0.2688	2.247	-0.3043	0.292	0.0231
Story1	1	15	LIVE	-0.0015	-0.2519	-0.1752	0.5019	-0.0054	0.0179
Story1	1	15	1/RX Max	17.0703	25.7658	14.7222	53.1865	36.1728	1.9858
Story1	1	15	1/RX Min	-17.0703	-25.7658	-14.7222	-53.1865	-36.1728	-1.9858
Story1	1	15	1/RY Max	1.2709	24.1778	12.8177	50.2414	2.5279	0.7729
Story1	1	15	1/RY Min	-1.2709	-24.1778	-12.8177	-50.2414	-2.5279	-0.7729
Story1	1	15	1OMEG/RX Max	51.211	77.2973	44.1665	159.5595	108.5184	5.9574
Story1	1	15	1OMEG/RX Min	-51.211	-77.2973	-44.1665	-159.5595	-108.5184	-5.9574

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	1	15	1OMEG/RY Max	3.8126	72.5334	38.4531	150.7243	7.5836	2.3188
Story1	1	15	1OMEG/RY Min	-3.8126	-72.5334	-38.4531	-150.7243	-7.5836	-2.3188
Story1	1	15	VB241	5.3613	4.4659	59.0129	-4.4344	6.2546	0.3512
Story1	1	15	VB242	5.0248	-6.5728	45.9074	17.7488	6.1203	0.2684
Story1	1	15	VB243	5.0024	4.006	54.0024	-3.786	5.8228	0.3559
Story1	1	15	VB244POS	4.7216	3.7104	51.5307	-3.4512	5.5017	0.3305
Story1	1	15	VB245X Max	21.6642	29.3418	65.1294	49.8874	41.5285	2.3047
Story1	1	15	VB245X Min	-12.4764	-22.1898	35.6851	-56.4856	-30.8171	-1.6669
Story1	1	15	VB245Y Max	5.8648	27.7538	63.2249	46.9423	7.8835	1.0918
Story1	1	15	VB245Y Min	3.323	-20.6018	37.5895	-53.5405	2.8278	-0.454
Story1	1	15	VB246POS	3.4465	2.8709	37.9368	-2.8507	4.0208	0.2258
Story1	1	15	VB247X Max	20.821	18.5047	47.1408	71.2347	40.8155	2.1388
Story1	1	15	VB247X Min	-13.3196	-33.0268	17.6965	-35.1383	-31.5301	-1.8329
Story1	1	15	VB247Y Max	5.0216	16.9167	45.2364	68.2897	7.1706	0.9259
Story1	1	15	VB247Y Min	2.4798	-31.4388	19.601	-32.1932	2.1149	-0.62
Story1	1	15	VB245CORTX Max	38.7346	55.1075	79.8516	103.0739	77.7013	4.2905
Story1	1	15	VB245CORTX Min	-29.5467	-47.9555	20.9629	-109.6721	-66.9899	-3.6527
Story1	1	15	VB245CORTY Max	7.1356	51.9316	76.0426	97.1838	10.4114	1.8648
Story1	1	15	VB245CORTY Min	2.0522	-44.7796	24.7718	-103.7819	0.3	-1.227
Story1	1	15	VB247CORTX Max	37.8913	44.2705	61.863	124.4212	76.9883	4.1246
Story1	1	15	VB247CORTX Min	-30.3899	-58.7926	2.9743	-88.3247	-67.7028	-3.8187
Story1	1	15	VB247CORTY Max	6.2924	41.0945	58.0541	118.5311	9.6984	1.6988
Story1	1	15	VB247CORTY Min	1.209	-55.6166	6.7833	-82.4346	-0.413	-1.3929
Story1	1	15	CB241	5.3613	4.4659	59.0129	-4.4344	6.2546	0.3512
Story1	1	15	CB242	5.0248	-6.5728	45.9074	17.7488	6.1203	0.2684
Story1	1	15	CB243	5.0024	4.006	54.0024	-3.786	5.8228	0.3559
Story1	1	15	CB244	4.7216	3.7104	51.5307	-3.4512	5.5017	0.3305
Story1	1	15	CB245VX Max	22.0455	36.5951	68.9747	64.9598	42.2868	2.5366
Story1	1	15	CB245VX Min	-12.8577	-29.4431	31.8397	-71.558	-31.5755	-1.8988
Story1	1	15	CB245VY Max	10.9859	35.4835	67.6416	62.8983	18.7354	1.6876
Story1	1	15	CB245VY Min	-1.7981	-28.3315	33.1729	-69.4965	-8.024	-1.0498
Story1	1	15	CB246POS	3.7507	-7.2611	32.4187	18.0482	4.6427	0.1529
Story1	1	15	CB247VX Max	21.2023	25.758	50.9861	86.3072	41.5739	2.3706
Story1	1	15	CB247VX Min	-13.7009	-40.2802	13.8512	-50.2107	-32.2884	-2.0647
Story1	1	15	CB247VY Max	10.1427	24.6464	49.653	84.2456	18.0224	1.5216
Story1	1	15	CB247VY Min	-2.6413	-39.1686	15.1843	-48.1491	-8.737	-1.2157
Story1	1	15	CB245VCORTX Max	56.9487	102.6333	106.1096	201.4777	116.1491	6.972
Story1	1	15	CB245VCORTX Min	-47.7608	-95.4813	-5.2952	-208.0758	-105.4377	-6.3342
Story1	1	15	CB245VCORTY Max	23.7698	99.2985	102.1103	195.2931	45.4948	4.4249
Story1	1	15	CB245VCORTY Min	-14.582	-92.1466	-1.2958	-201.8912	-34.7834	-3.7871
Story1	1	15	CB247VCORTX Max	56.1054	91.7962	88.1211	222.825	115.4362	6.806
Story1	1	15	CB247VCORTX Min	-48.604	-106.3184	-23.2837	-186.7285	-106.1507	-6.5001
Story1	1	15	CB247VCORTY Max	22.9266	88.4615	84.1217	216.6404	44.7818	4.259
Story1	1	15	CB247VCORTY Min	-15.4252	-102.9836	-19.2844	-180.5439	-35.4964	-3.9531
Story1	1	15	B231	3.8295	3.1899	42.152	-3.1674	4.4676	0.2508

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	1	15	B232	3.828	2.938	41.9768	-2.6656	4.4622	0.2687
Story1	1	15	B233	4.0848	3.4587	44.399	-3.4718	4.7596	0.274
Story1	1	15	B234	4.0833	3.2068	44.2238	-2.9699	4.7541	0.2919
Story1	1	15	B235POS	3.8295	3.1899	42.152	-3.1674	4.4676	0.2508
Story1	1	15	B235NEG	3.8295	3.1899	42.152	-3.1674	4.4676	0.2508
Story1	1	15	B236X Max	15.7787	21.226	52.4576	34.0631	29.7886	1.6409
Story1	1	15	B236X Min	-8.1197	-14.8461	31.8465	-40.398	-20.8533	-1.1392
Story1	1	15	B236Y Max	4.7191	20.1144	51.1244	32.0016	6.2371	0.7919
Story1	1	15	B236Y Min	2.9399	-13.7345	33.1797	-38.3364	2.6981	-0.2902
Story1	1	15	B237POS	4.0199	3.2026	43.7059	-3.0193	4.6825	0.2816
Story1	1	15	B238X Max	12.9818	16.7296	51.435	24.9036	23.6732	1.3242
Story1	1	15	B238X Min	-4.9421	-10.3245	35.9767	-30.9422	-14.3082	-0.7609
Story1	1	15	B238Y Max	4.6871	15.8959	50.4352	23.3575	6.0096	0.6874
Story1	1	15	B238Y Min	3.3527	-9.4908	36.9766	-29.396	3.3554	-0.1242
Story1	1	15	B239POS	2.2977	1.914	25.2912	-1.9005	2.6806	0.1505
Story1	1	15	B23-10X Max	14.2469	19.95	35.5967	35.3301	28.0015	1.5406
Story1	1	15	B23-10X Min	-9.6515	-16.1221	14.9857	-39.131	-22.6404	-1.2396
Story1	1	15	B23-10Y Max	3.1873	18.8384	34.2636	33.2685	4.4501	0.6916
Story1	1	15	B23-10Y Min	1.4081	-15.0105	16.3188	-37.0695	0.9111	-0.3906
Story1	1	15	B237NEG	4.0199	3.2026	43.7059	-3.0193	4.6825	0.2816
Story1	1	15	B239NEG	2.2977	1.914	25.2912	-1.9005	2.6806	0.1505
Story1	1	15	VB244NEG	4.7216	3.7104	51.5307	-3.4512	5.5017	0.3305
Story1	1	15	VB246NEG	3.7507	-7.2611	32.4187	18.0482	4.6427	0.1529
Story1	1	15	CB246NEG	3.4465	2.8709	37.9368	-2.8507	4.0208	0.2258
Story1	1	15	C1	6.1272	5.1039	67.4433	-5.0679	7.1482	0.4013
Story1	1	15	C2	5.7928	4.4946	62.5348	-4.0986	6.7417	0.4209
Story1	1	15	C3	4.5892	-4.7346	42.497	13.6462	5.5552	0.2576
Story1	1	15	C4	3.6937	-5.3613	33.4533	14.1297	4.5261	0.1666
Story1	2	101	DEAD	-1.9779	8.5477	79.7079	-9.5704	-2.4087	-0.1207
Story1	2	101	LR	-0.1385	0.997	6.4106	-1.15	-0.1743	-0.0174
Story1	2	101	LIVE	-0.0056	-0.1237	-0.083	0.2509	-0.0104	0.0121
Story1	2	101	1/RX Max	22.9877	17.1151	8.7796	35.3502	43.2306	2.176
Story1	2	101	1/RX Min	-22.9877	-17.1151	-8.7796	-35.3502	-43.2306	-2.176
Story1	2	101	1/RY Max	1.4826	27.2547	13.967	56.1987	2.7876	0.9533
Story1	2	101	1/RY Min	-1.4826	-27.2547	-13.967	-56.1987	-2.7876	-0.9533
Story1	2	101	1OMEG/RX Max	68.9631	51.3452	26.3388	106.0507	129.6917	6.5281
Story1	2	101	1OMEG/RX Min	-68.9631	-51.3452	-26.3388	-106.0507	-129.6917	-6.5281
Story1	2	101	1OMEG/RY Max	4.4478	81.764	41.9011	168.596	8.3629	2.8598
Story1	2	101	1OMEG/RY Min	-4.4478	-81.764	-41.9011	-168.596	-8.3629	-2.8598
Story1	2	101	VB241	-2.7691	11.9668	111.591	-13.3985	-3.3722	-0.169
Story1	2	101	VB242	-2.065	0.8949	93.6137	8.1186	-2.2721	0.7212
Story1	2	101	VB243	-2.6008	11.7287	105.8235	-13.0734	-3.1797	-0.1607
Story1	2	101	VB244POS	-2.4484	10.6321	98.7718	-11.8085	-2.988	-0.1415
Story1	2	101	VB245X Max	20.6086	27.2486	104.346	24.1167	40.3298	2.0432
Story1	2	101	VB245X Min	-25.3668	-6.9815	86.7869	-46.5837	-46.1314	-2.3089

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	2	101	VB245Y Max	-0.8965	37.3882	109.5335	44.9651	-0.1132	0.8204
Story1	2	101	VB245Y Min	-3.8617	-17.1211	81.5994	-67.4322	-5.6885	-1.0861
Story1	2	101	VB246POS	-1.7801	7.6929	71.7371	-8.6133	-2.1678	-0.1087
Story1	2	101	VB247X Max	21.5942	15.145	75.4084	46.5134	41.7849	2.9229
Story1	2	101	VB247X Min	-24.3812	-19.0851	57.8493	-24.187	-44.6763	-1.4292
Story1	2	101	VB247Y Max	0.0891	25.2847	80.5959	67.3619	1.3419	1.7001
Story1	2	101	VB247Y Min	-2.8761	-29.2247	52.6618	-45.0355	-4.2334	-0.2064
Story1	2	101	VB245CORTX Max	43.5963	44.3637	113.1256	59.4669	83.5603	4.2193
Story1	2	101	VB245CORTX Min	-48.3545	-24.0965	78.0073	-81.934	-89.3619	-4.4849
Story1	2	101	VB245CORTY Max	0.5861	64.6429	123.5005	101.1638	2.6745	1.7737
Story1	2	101	VB245CORTY Min	-5.3443	-44.3758	67.6324	-123.6308	-8.4761	-2.0393
Story1	2	101	VB247CORTX Max	44.5819	32.2601	84.188	81.8636	85.0154	5.0989
Story1	2	101	VB247CORTX Min	-47.3689	-36.2001	49.0697	-59.5373	-87.9068	-3.6053
Story1	2	101	VB247CORTY Max	1.5717	52.5393	94.5629	123.5605	4.1296	2.6533
Story1	2	101	VB247CORTY Min	-4.3586	-56.4793	38.6948	-101.2341	-7.021	-1.1597
Story1	2	101	CB241	-2.7691	11.9668	111.591	-13.3985	-3.3722	-0.169
Story1	2	101	CB242	-2.065	0.8949	93.6137	8.1186	-2.2721	0.7212
Story1	2	101	CB243	-2.6008	11.7287	105.8235	-13.0734	-3.1797	-0.1607
Story1	2	101	CB244	-2.4484	10.6321	98.7718	-11.8085	-2.988	-0.1415
Story1	2	101	CB245VX Max	21.0534	35.425	108.5362	40.9763	41.166	2.3292
Story1	2	101	CB245VX Min	-25.8116	-15.1579	82.5968	-63.4433	-46.9677	-2.5948
Story1	2	101	CB245VY Max	5.9998	42.5228	112.1674	55.5702	12.856	1.4733
Story1	2	101	CB245VY Min	-10.758	-22.2556	78.9656	-78.0372	-18.6576	-1.7389
Story1	2	101	CB246POS	-1.3935	-1.97	66.6288	11.1632	-1.4457	0.7468
Story1	2	101	CB247VX Max	22.039	23.3214	79.5985	63.373	42.6211	3.2088
Story1	2	101	CB247VX Min	-24.8259	-27.2615	53.6591	-41.0466	-45.5126	-1.7152
Story1	2	101	CB247VY Max	6.9854	30.4192	83.2297	77.9669	14.3111	2.3529
Story1	2	101	CB247VY Min	-9.7724	-34.3592	50.0279	-55.6405	-17.2025	-0.8592
Story1	2	101	CB245VCORTX Max	67.9183	86.0079	134.4755	145.396	129.2998	7.2532
Story1	2	101	CB245VCORTX Min	-72.6765	-65.7408	56.6574	-167.863	-135.1014	-7.5189
Story1	2	101	CB245VCORTY Max	22.7576	107.3011	145.3692	189.1777	44.3696	4.6854
Story1	2	101	CB245VCORTY Min	-27.5158	-87.034	45.7638	-211.6447	-50.1712	-4.951
Story1	2	101	CB247VCORTX Max	68.9039	73.9043	105.5379	167.7927	130.7549	8.1329
Story1	2	101	CB247VCORTX Min	-71.6909	-77.8444	27.7198	-145.4663	-133.6463	-6.6392
Story1	2	101	CB247VCORTY Max	23.7432	95.1975	116.4315	211.5744	45.8247	5.565
Story1	2	101	CB247VCORTY Min	-26.5302	-99.1376	16.8261	-189.248	-48.7161	-4.0714
Story1	2	101	B231	-1.9779	8.5477	79.7079	-9.5704	-2.4087	-0.1207
Story1	2	101	B232	-1.9835	8.424	79.6249	-9.3194	-2.4191	-0.1087
Story1	2	101	B233	-2.1165	9.5447	86.1185	-10.7203	-2.583	-0.1381
Story1	2	101	B234	-2.1221	9.421	86.0355	-10.4694	-2.5934	-0.1261
Story1	2	101	B235POS	-1.9779	8.5477	79.7079	-9.5704	-2.4087	-0.1207
Story1	2	101	B235NEG	-1.9779	8.5477	79.7079	-9.5704	-2.4087	-0.1207
Story1	2	101	B236X Max	14.1135	20.5282	85.8536	15.1748	27.8527	1.4025
Story1	2	101	B236X Min	-18.0693	-3.4328	73.5622	-34.3155	-32.6701	-1.644
Story1	2	101	B236Y Max	-0.9401	27.626	89.4848	29.7687	-0.4573	0.5465

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	2	101	B236Y Min	-3.0157	-10.5306	69.931	-48.9094	-4.36	-0.788
Story1	2	101	B237POS	-2.086	9.2027	84.4536	-10.2446	-2.5472	-0.1247
Story1	2	101	B238X Max	9.9825	18.1881	89.0629	8.3142	20.1489	1.0177
Story1	2	101	B238X Min	-14.1546	0.2173	79.8443	-28.8035	-25.2432	-1.2672
Story1	2	101	B238Y Max	-1.3077	23.5114	91.7863	19.2597	-1.0837	0.3757
Story1	2	101	B238Y Min	-2.8644	-5.106	77.1209	-39.7489	-4.0107	-0.6252
Story1	2	101	B239POS	-1.1868	5.1286	47.8247	-5.7422	-1.4452	-0.0724
Story1	2	101	B23-10X Max	14.9046	17.1092	53.9704	19.0029	28.8162	1.4508
Story1	2	101	B23-10X Min	-17.2781	-6.8519	41.679	-30.4874	-31.7066	-1.5957
Story1	2	101	B23-10Y Max	-0.1489	24.2069	57.6017	33.5968	0.5061	0.5948
Story1	2	101	B23-10Y Min	-2.2246	-13.9496	38.0478	-45.0813	-3.3966	-0.7397
Story1	2	101	B237NEG	-2.086	9.2027	84.4536	-10.2446	-2.5472	-0.1247
Story1	2	101	B239NEG	-1.1868	5.1286	47.8247	-5.7422	-1.4452	-0.0724
Story1	2	101	VB244NEG	-2.4484	10.6321	98.7718	-11.8085	-2.988	-0.1415
Story1	2	101	VB246NEG	-1.3935	-1.97	66.6288	11.1632	-1.4457	0.7468
Story1	2	101	CB246NEG	-1.7801	7.6929	71.7371	-8.6133	-2.1678	-0.1087
Story1	2	101	C1	-3.1647	13.6763	127.5326	-15.3126	-3.8539	-0.1932
Story1	2	101	C2	-3.0141	13.4514	122.348	-14.9268	-3.6861	-0.1781
Story1	2	101	C3	-1.952	2.3626	87.706	4.6216	-2.1878	0.5508
Story1	2	101	C4	-1.466	-0.1582	67.5866	7.4551	-1.5811	0.5864
Story1	3	103	DEAD	0.9374	10.942	76.9919	-12.2514	1.0606	-0.1679
Story1	3	103	LR	0.0576	1.3009	6.6841	-1.4811	0.0591	-0.0196
Story1	3	103	LIVE	-0.0061	-0.0931	-0.0705	0.1927	-0.0112	-0.017
Story1	3	103	1/RX Max	22.7177	11.1409	9.6948	22.7841	42.9119	2.5274
Story1	3	103	1/RX Min	-22.7177	-11.1409	-9.6948	-22.7841	-42.9119	-2.5274
Story1	3	103	1/RY Max	1.4744	22.5773	14.5305	46.2579	2.7789	1.3745
Story1	3	103	1/RY Min	-1.4744	-22.5773	-14.5305	-46.2579	-2.7789	-1.3745
Story1	3	103	1OMEG/RX Max	68.1532	33.4227	29.0845	68.3522	128.7356	7.5822
Story1	3	103	1OMEG/RX Min	-68.1532	-33.4227	-29.0845	-68.3522	-128.7356	-7.5822
Story1	3	103	1OMEG/RY Max	4.4231	67.7319	43.5915	138.7736	8.3366	4.1234
Story1	3	103	1OMEG/RY Min	-4.4231	-67.7319	-43.5915	-138.7736	-8.3366	-4.1234
Story1	3	103	VB241	1.3123	15.3189	107.7887	-17.1519	1.4849	-0.235
Story1	3	103	VB242	1.5186	8.4114	91.9927	-4.3655	1.9891	0.5747
Story1	3	103	VB243	1.2109	15.1188	103.0143	-16.8788	1.3562	-0.2498
Story1	3	103	VB244POS	1.1476	13.6878	95.6618	-15.2496	1.2911	-0.2283
Story1	3	103	VB245X Max	23.8365	24.1782	102.0146	8.2751	44.1734	2.309
Story1	3	103	VB245X Min	-21.599	1.8964	82.625	-37.293	-41.6503	-2.7459
Story1	3	103	VB245Y Max	2.5932	35.6146	106.8503	31.7489	4.0404	1.156
Story1	3	103	VB245Y Min	-0.3556	-9.54	77.7893	-60.7669	-1.5173	-1.5929
Story1	3	103	VB246POS	0.8436	9.8478	69.2927	-11.0262	0.9546	-0.1511
Story1	3	103	VB247X Max	23.936	15.7682	75.3608	22.5263	44.5711	3.1895
Story1	3	103	VB247X Min	-21.4995	-6.5136	55.9711	-23.0418	-41.2526	-1.8653
Story1	3	103	VB247Y Max	2.6927	27.2046	80.1965	46.0001	4.4381	2.0366
Story1	3	103	VB247Y Min	-0.2561	-17.95	51.1355	-46.5156	-1.1196	-0.7123
Story1	3	103	VB245CORTX Max	46.5543	35.3191	111.7095	31.0591	87.0853	4.8364

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	3	103	VB245CORTX Min	-44.3167	-9.2445	72.9302	-60.0771	-84.5622	-5.2733
Story1	3	103	VB245CORTY Max	4.0675	58.192	121.3808	78.0068	6.8193	2.5305
Story1	3	103	VB245CORTY Min	-1.83	-32.1173	63.2588	-107.0247	-4.2962	-2.9674
Story1	3	103	VB247CORTX Max	46.6538	26.9091	85.0556	45.3104	87.483	5.717
Story1	3	103	VB247CORTX Min	-44.2172	-17.6545	46.2763	-45.8259	-84.1645	-4.3927
Story1	3	103	VB247CORTY Max	4.167	49.7819	94.7269	92.258	7.217	3.4111
Story1	3	103	VB247CORTY Min	-1.7305	-40.5273	36.605	-92.7735	-3.8985	-2.0868
Story1	3	103	CB241	1.3123	15.3189	107.7887	-17.1519	1.4849	-0.235
Story1	3	103	CB242	1.5186	8.4114	91.9927	-4.3655	1.9891	0.5747
Story1	3	103	CB243	1.2109	15.1188	103.0143	-16.8788	1.3562	-0.2498
Story1	3	103	CB244	1.1476	13.6878	95.6618	-15.2496	1.2911	-0.2283
Story1	3	103	CB245VX Max	24.2788	30.9514	106.3738	22.1524	45.0071	2.7213
Story1	3	103	CB245VX Min	-22.0413	-4.8768	78.2658	-51.1704	-42.484	-3.1582
Story1	3	103	CB245VY Max	9.4085	38.9569	109.7588	38.5841	16.914	1.9142
Story1	3	103	CB245VY Min	-7.1709	-12.8823	74.8809	-67.6021	-14.3909	-2.3511
Story1	3	103	CB246POS	1.2183	4.6273	65.666	-0.2578	1.6592	0.6621
Story1	3	103	CB247VX Max	24.3783	22.5414	79.7199	36.4037	45.4048	3.6019
Story1	3	103	CB247VX Min	-21.9418	-13.2868	51.612	-36.9192	-42.0863	-2.2776
Story1	3	103	CB247VY Max	9.508	30.5469	83.1049	52.8353	17.3117	2.7948
Story1	3	103	CB247VY Min	-7.0714	-21.2923	48.227	-53.3508	-13.9932	-1.4706
Story1	3	103	CB245VCORTX Max	70.5989	66.7796	134.4817	95.4753	132.4981	8.6008
Story1	3	103	CB245VCORTX Min	-68.3614	-40.705	50.1579	-124.4932	-129.975	-9.0377
Story1	3	103	CB245VCORTY Max	25.9879	90.7961	144.6367	144.7703	48.2188	6.1796
Story1	3	103	CB245VCORTY Min	-23.7503	-64.7214	40.003	-173.7883	-45.6957	-6.6165
Story1	3	103	CB247VCORTX Max	70.6984	58.3696	107.8279	109.7265	132.8958	9.4814
Story1	3	103	CB247VCORTX Min	-68.2619	-49.115	23.504	-110.242	-129.5773	-8.1571
Story1	3	103	CB247VCORTY Max	26.0874	82.3861	117.9828	159.0215	48.6165	7.0602
Story1	3	103	CB247VCORTY Min	-23.6508	-73.1314	13.3491	-159.537	-45.2981	-5.7359
Story1	3	103	B231	0.9374	10.942	76.9919	-12.2514	1.0606	-0.1679
Story1	3	103	B232	0.9313	10.8489	76.9214	-12.0587	1.0494	-0.1849
Story1	3	103	B233	0.995	12.243	83.676	-13.7325	1.1198	-0.1875
Story1	3	103	B234	0.9889	12.1498	83.6055	-13.5399	1.1086	-0.2045
Story1	3	103	B235POS	0.9374	10.942	76.9919	-12.2514	1.0606	-0.1679
Story1	3	103	B235NEG	0.9374	10.942	76.9919	-12.2514	1.0606	-0.1679
Story1	3	103	B236X Max	16.8398	18.7407	83.7783	3.6975	31.0989	1.6013
Story1	3	103	B236X Min	-14.965	3.1434	70.2056	-28.2002	-28.9777	-1.9371
Story1	3	103	B236Y Max	1.9694	26.7462	87.1633	20.1291	3.0058	0.7943
Story1	3	103	B236Y Min	-0.0947	-4.8621	66.8206	-44.6319	-0.8846	-1.13
Story1	3	103	B237POS	0.976	11.8479	81.9521	-13.2177	1.0966	-0.1953
Story1	3	103	B238X Max	12.9028	17.6969	87.0419	-1.2561	23.6253	1.1316
Story1	3	103	B238X Min	-10.9508	5.9989	76.8623	-25.1794	-21.4322	-1.5222
Story1	3	103	B238Y Max	1.7501	23.701	89.5806	11.0677	2.5555	0.5263
Story1	3	103	B238Y Min	0.202	-0.0052	74.3236	-37.5031	-0.3623	-0.9169
Story1	3	103	B239POS	0.5624	6.5652	46.1952	-7.3508	0.6364	-0.1007
Story1	3	103	B23-10X Max	16.4648	14.3639	52.9815	8.598	30.6747	1.6685

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	3	103	B23-10X Min	-15.34	-1.2334	39.4088	-23.2997	-29.4019	-1.8699
Story1	3	103	B23-10Y Max	1.5945	22.3693	56.3665	25.0297	2.5816	0.8614
Story1	3	103	B23-10Y Min	-0.4696	-9.2389	36.0238	-39.7313	-1.3088	-1.0628
Story1	3	103	B237NEG	0.976	11.8479	81.9521	-13.2177	1.0966	-0.1953
Story1	3	103	B239NEG	0.5624	6.5652	46.1952	-7.3508	0.6364	-0.1007
Story1	3	103	VB244NEG	1.1476	13.6878	95.6618	-15.2496	1.2911	-0.2283
Story1	3	103	VB246NEG	1.2183	4.6273	65.666	-0.2578	1.6592	0.6621
Story1	3	103	CB246NEG	0.8436	9.8478	69.2927	-11.0262	0.9546	-0.1511
Story1	3	103	C1	1.4998	17.5073	123.1871	-19.6022	1.697	-0.2686
Story1	3	103	C2	1.3999	17.3721	119.0317	-19.3423	1.5664	-0.2973
Story1	3	103	C3	1.3499	8.8587	86.4054	-5.8984	1.7388	0.4274
Story1	3	103	C4	1.148	5.6062	66.346	-2.2768	1.5271	0.5097
Story1	4	105	DEAD	-1.1886	11.8738	91.3693	-12.3194	-1.4535	-0.2905
Story1	4	105	LR	-0.0942	1.4871	8.7548	-1.5878	-0.1203	-0.0346
Story1	4	105	LIVE	-0.0059	-0.2351	-0.1637	0.4787	-0.0113	0.0033
Story1	4	105	1/RX Max	22.6549	8.839	8.7152	18.4213	42.8215	2.1325
Story1	4	105	1/RX Min	-22.6549	-8.839	-8.7152	-18.4213	-42.8215	-2.1325
Story1	4	105	1/RY Max	1.4832	18.8468	12.9906	39.2533	2.7842	0.7993
Story1	4	105	1/RY Min	-1.4832	-18.8468	-12.9906	-39.2533	-2.7842	-0.7993
Story1	4	105	1OMEG/RX Max	67.9646	26.5169	26.1456	55.264	128.4646	6.3976
Story1	4	105	1OMEG/RX Min	-67.9646	-26.5169	-26.1456	-55.264	-128.4646	-6.3976
Story1	4	105	1OMEG/RY Max	4.4495	56.5403	38.9717	117.76	8.3527	2.398
Story1	4	105	1OMEG/RY Min	-4.4495	-56.5403	-38.9717	-117.76	-8.3527	-2.398
Story1	4	105	VB241	-1.664	16.6234	127.917	-17.2472	-2.0349	-0.4067
Story1	4	105	VB242	-1.1192	10.8761	110.9486	-6.9913	-1.1429	-0.0825
Story1	4	105	VB243	-1.5828	16.393	123.4872	-16.845	-1.948	-0.4006
Story1	4	105	VB244POS	-1.4793	14.7571	113.8569	-15.0984	-1.8156	-0.3626
Story1	4	105	VB245X Max	21.2227	22.8525	118.1947	4.1168	41.066	1.7872
Story1	4	105	VB245X Min	-24.0871	5.1746	100.7643	-32.7259	-44.577	-2.4778
Story1	4	105	VB245Y Max	0.051	32.8603	122.47	24.9488	1.0288	0.454
Story1	4	105	VB245Y Min	-2.9153	-4.8332	96.4889	-53.5579	-4.5397	-1.1446
Story1	4	105	VB246POS	-1.0697	10.6865	82.2324	-11.0875	-1.3082	-0.2614
Story1	4	105	VB247X Max	21.9487	15.7855	88.1375	15.1538	42.1928	2.1491
Story1	4	105	VB247X Min	-23.361	-1.8925	70.7071	-21.6889	-43.4502	-2.1159
Story1	4	105	VB247Y Max	0.777	25.7933	92.4128	35.9858	2.1555	0.8159
Story1	4	105	VB247Y Min	-2.1893	-11.9003	66.4317	-42.5209	-3.4129	-0.7827
Story1	4	105	VB245CORTX Max	43.8776	31.6915	126.9099	22.5381	83.8876	3.9198
Story1	4	105	VB245CORTX Min	-46.742	-3.6644	92.0491	-51.1472	-87.3985	-4.6103
Story1	4	105	VB245CORTY Max	1.5341	51.7071	135.4606	64.2021	3.813	1.2534
Story1	4	105	VB245CORTY Min	-4.3985	-23.68	83.4984	-92.8112	-7.324	-1.944
Story1	4	105	VB247CORTX Max	44.6036	24.6244	96.8527	33.5751	85.0144	4.2817
Story1	4	105	VB247CORTX Min	-46.0159	-10.7314	61.9919	-40.1102	-86.2718	-4.2484
Story1	4	105	VB247CORTY Max	2.2601	44.64	105.4034	75.2391	4.9398	1.6153
Story1	4	105	VB247CORTY Min	-3.6725	-30.747	53.4412	-81.7742	-6.1972	-1.582
Story1	4	105	CB241	-1.664	16.6234	127.917	-17.2472	-2.0349	-0.4067

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	4	105	CB242	-1.1192	10.8761	110.9486	-6.9913	-1.1429	-0.0825
Story1	4	105	CB243	-1.5828	16.393	123.4872	-16.845	-1.948	-0.4006
Story1	4	105	CB244	-1.4793	14.7571	113.8569	-15.0984	-1.8156	-0.3626
Story1	4	105	CB245VX Max	21.6676	28.5066	122.0919	15.8928	41.9013	2.027
Story1	4	105	CB245VX Min	-24.532	-0.4794	96.8671	-44.5019	-45.4123	-2.7176
Story1	4	105	CB245VY Max	6.8474	35.512	125.0846	30.4752	13.8752	1.0938
Story1	4	105	CB245VY Min	-9.7118	-7.4849	93.8744	-59.0843	-17.3862	-1.7844
Story1	4	105	CB246POS	-0.7062	6.9465	79.4223	-3.2675	-0.6287	0.0166
Story1	4	105	CB247VX Max	22.3937	21.4395	92.0347	26.9298	43.0281	2.3889
Story1	4	105	CB247VX Min	-23.806	-7.5465	66.8099	-33.4649	-44.2855	-2.3557
Story1	4	105	CB247VY Max	7.5735	28.445	95.0274	41.5122	15.002	1.4557
Story1	4	105	CB247VY Min	-8.9858	-14.5519	63.8172	-48.0473	-16.2594	-1.4225
Story1	4	105	CB245VCORTX Max	67.8673	57.4926	147.3166	76.2875	129.2149	6.7717
Story1	4	105	CB245VCORTX Min	-70.7317	-29.4654	71.6424	-104.8965	-132.7259	-7.4623
Story1	4	105	CB245VCORTY Max	23.4067	78.5089	156.2948	120.0346	45.1366	3.972
Story1	4	105	CB245VCORTY Min	-26.271	-50.4818	62.6641	-148.6437	-48.6476	-4.6626
Story1	4	105	CB247VCORTX Max	68.5933	50.4255	117.2594	87.3245	130.3417	7.1336
Story1	4	105	CB247VCORTX Min	-70.0056	-36.5325	41.5852	-93.8596	-131.5991	-7.1004
Story1	4	105	CB247VCORTY Max	24.1327	71.4418	126.2376	131.0716	46.2634	4.3339
Story1	4	105	CB247VCORTY Min	-25.545	-57.5488	32.6069	-137.6067	-47.5208	-4.3007
Story1	4	105	B231	-1.1886	11.8738	91.3693	-12.3194	-1.4535	-0.2905
Story1	4	105	B232	-1.1945	11.6388	91.2056	-11.8407	-1.4648	-0.2872
Story1	4	105	B233	-1.2828	13.361	100.1241	-13.9072	-1.5738	-0.325
Story1	4	105	B234	-1.2886	13.1259	99.9604	-13.4284	-1.5851	-0.3218
Story1	4	105	B235POS	-1.1886	11.8738	91.3693	-12.3194	-1.4535	-0.2905
Story1	4	105	B235NEG	-1.1886	11.8738	91.3693	-12.3194	-1.4535	-0.2905
Story1	4	105	B236X Max	14.6698	18.0611	97.4699	0.5755	28.5216	1.2023
Story1	4	105	B236X Min	-17.047	5.6866	85.2686	-25.2143	-31.4286	-1.7832
Story1	4	105	B236Y Max	-0.1504	25.0666	100.4627	15.1579	0.4954	0.269
Story1	4	105	B236Y Min	-2.2268	-1.3189	82.2759	-39.7967	-3.4025	-0.85
Story1	4	105	B237POS	-1.2636	12.8129	97.8126	-13.1512	-1.5522	-0.3139
Story1	4	105	B238X Max	10.6302	17.4534	102.3881	-3.48	20.9291	0.8056
Story1	4	105	B238X Min	-13.1574	8.1725	93.2372	-22.8224	-24.0335	-1.4335
Story1	4	105	B238Y Max	-0.485	22.7075	104.6327	7.4568	-0.0905	0.1057
Story1	4	105	B238Y Min	-2.0423	2.9184	90.9926	-33.7592	-3.0139	-0.7336
Story1	4	105	B239POS	-0.7132	7.1243	54.8216	-7.3916	-0.8721	-0.1743
Story1	4	105	B23-10X Max	15.1453	13.3116	60.9222	5.5033	29.103	1.3185
Story1	4	105	B23-10X Min	-16.5716	0.937	48.7209	-20.2866	-30.8472	-1.6671
Story1	4	105	B23-10Y Max	0.325	20.317	63.915	20.0857	1.0769	0.3852
Story1	4	105	B23-10Y Min	-1.7514	-6.0684	45.7282	-34.869	-2.8211	-0.7338
Story1	4	105	B237NEG	-1.2636	12.8129	97.8126	-13.1512	-1.5522	-0.3139
Story1	4	105	B239NEG	-0.7132	7.1243	54.8216	-7.3916	-0.8721	-0.1743
Story1	4	105	VB244NEG	-1.4793	14.7571	113.8569	-15.0984	-1.8156	-0.3626
Story1	4	105	VB246NEG	-0.7062	6.9465	79.4223	-3.2675	-0.6287	0.0166
Story1	4	105	CB246NEG	-1.0697	10.6865	82.2324	-11.0875	-1.3082	-0.2614

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	4	105	C1	-1.9018	18.9982	146.1909	-19.711	-2.3256	-0.4648
Story1	4	105	C2	-1.8341	18.7519	142.5219	-19.1325	-2.2586	-0.4598
Story1	4	105	C3	-1.0852	11.0782	104.6864	-8.099	-1.151	-0.1226
Story1	4	105	C4	-0.7743	7.6477	79.9492	-4.7338	-0.7561	-0.0355
Story1	5	107	DEAD	1.854	1.5156	42.7616	0.5175	2.1675	0.0654
Story1	5	107	LR	0.1075	0.1892	2.3555	0.0159	0.1197	0.0106
Story1	5	107	LIVE	-0.0057	-0.1015	-0.0006	0.2882	-0.0109	0.0041
Story1	5	107	1/RX Max	22.9482	6.3854	5.2336	17.9547	43.124	2.6909
Story1	5	107	1/RX Min	-22.9482	-6.3854	-5.2336	-17.9547	-43.124	-2.6909
Story1	5	107	1/RY Max	1.4724	9.9103	0.4763	27.9699	2.7676	1.0674
Story1	5	107	1/RY Min	-1.4724	-9.9103	-0.4763	-27.9699	-2.7676	-1.0674
Story1	5	107	1OMEG/RX Max	68.8446	19.1562	15.7009	53.8642	129.372	8.0728
Story1	5	107	1OMEG/RX Min	-68.8446	-19.1562	-15.7009	-53.8642	-129.372	-8.0728
Story1	5	107	1OMEG/RY Max	4.4173	29.731	1.4288	83.9097	8.3027	3.2021
Story1	5	107	1OMEG/RY Min	-4.4173	-29.731	-1.4288	-83.9097	-8.3027	-3.2021
Story1	5	107	VB241	2.5956	2.1218	59.8662	0.7245	3.0346	0.0916
Story1	5	107	VB242	2.6206	-0.3024	52.3508	7.1468	3.3041	-0.5671
Story1	5	107	VB243	2.3911	2.02	55.0821	0.9346	2.7817	0.0996
Story1	5	107	VB244POS	2.2729	1.8118	52.4911	0.9171	2.65	0.088
Story1	5	107	VB245X Max	25.1673	8.1027	56.547	18.8639	45.7141	2.7736
Story1	5	107	VB245X Min	-20.7291	-4.6682	46.0797	-17.0456	-40.5339	-2.6082
Story1	5	107	VB245Y Max	3.6915	11.6276	51.7896	28.879	5.3577	1.15
Story1	5	107	VB245Y Min	0.7467	-8.1931	50.8371	-27.0607	-0.1774	-0.9847
Story1	5	107	VB246POS	1.6686	1.364	38.4854	0.4657	1.9508	0.0589
Story1	5	107	VB247X Max	24.9679	5.6961	43.5792	24.4772	45.7354	2.0923
Story1	5	107	VB247X Min	-20.9285	-7.0747	33.1119	-11.4323	-40.5126	-3.2895
Story1	5	107	VB247Y Max	3.4921	9.221	38.8218	34.4924	5.379	0.4687
Story1	5	107	VB247Y Min	0.5473	-10.5996	37.8693	-21.4474	-0.1561	-1.666
Story1	5	107	VB245CORTX Max	48.1155	14.4881	61.7806	36.8186	88.8381	5.4645
Story1	5	107	VB245CORTX Min	-43.6773	-11.0536	40.8461	-35.0003	-83.6579	-5.2992
Story1	5	107	VB245CORTY Max	5.1639	21.5379	52.2659	56.8489	8.1253	2.2174
Story1	5	107	VB245CORTY Min	-0.7257	-18.1034	50.3608	-55.0306	-2.945	-2.052
Story1	5	107	VB247CORTX Max	47.9161	12.0815	48.8128	42.4319	88.8594	4.7832
Story1	5	107	VB247CORTX Min	-43.8767	-13.4601	27.8783	-29.387	-83.6366	-5.9805
Story1	5	107	VB247CORTY Max	4.9646	19.1314	39.2981	62.4622	8.1466	1.5361
Story1	5	107	VB247CORTY Min	-0.9251	-20.51	37.393	-49.4173	-2.9237	-2.7333
Story1	5	107	CB241	2.5956	2.1218	59.8662	0.7245	3.0346	0.0916
Story1	5	107	CB242	2.6206	-0.3024	52.3508	7.1468	3.3041	-0.5671
Story1	5	107	CB243	2.3911	2.02	55.0821	0.9346	2.7817	0.0996
Story1	5	107	CB244	2.2729	1.8118	52.4911	0.9171	2.65	0.088
Story1	5	107	CB245VX Max	25.609	11.0758	56.6898	27.2549	46.5444	3.0938
Story1	5	107	CB245VX Min	-21.1708	-7.6413	45.9368	-25.4365	-41.3641	-2.9284
Story1	5	107	CB245VY Max	10.576	13.5432	53.3597	34.2655	18.2949	1.9573
Story1	5	107	CB245VY Min	-6.1378	-10.1087	49.267	-32.4471	-13.1146	-1.792
Story1	5	107	CB246POS	2.0197	-0.6893	38.3456	6.5225	2.6114	-0.5986

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	5	107	CB247VX Max	25.4097	8.6692	43.7221	32.8682	46.5657	2.4125
Story1	5	107	CB247VX Min	-21.3702	-10.0478	32.9691	-19.8232	-41.3428	-3.6097
Story1	5	107	CB247VY Max	10.3766	11.1367	40.3919	39.8788	18.3162	1.276
Story1	5	107	CB247VY Min	-6.3372	-12.5153	36.2992	-26.8338	-13.0933	-2.4732
Story1	5	107	CB245VCORTX Max	72.3889	29.7928	67.4428	79.9463	134.4529	9.1161
Story1	5	107	CB245VCORTX Min	-67.9507	-26.3583	35.1838	-78.1279	-129.2727	-8.9507
Story1	5	107	CB245VCORTY Max	27.2898	37.1951	57.4524	100.9781	49.7044	5.7066
Story1	5	107	CB245VCORTY Min	-22.8516	-33.7606	45.1743	-99.1598	-44.5242	-5.5412
Story1	5	107	CB247VCORTX Max	72.1895	27.3862	54.4751	85.5596	134.4742	8.4348
Story1	5	107	CB247VCORTX Min	-68.1501	-28.7648	22.216	-72.5146	-129.2514	-9.632
Story1	5	107	CB247VCORTY Max	27.0904	34.7886	44.4846	106.5914	49.7258	5.0253
Story1	5	107	CB247VCORTY Min	-23.0509	-36.1672	32.2065	-93.5465	-44.5029	-6.2225
Story1	5	107	B231	1.854	1.5156	42.7616	0.5175	2.1675	0.0654
Story1	5	107	B232	1.8483	1.4141	42.761	0.8057	2.1566	0.0696
Story1	5	107	B233	1.9615	1.7048	45.1171	0.5333	2.2873	0.076
Story1	5	107	B234	1.9558	1.6033	45.1165	0.8215	2.2763	0.0802
Story1	5	107	B235POS	1.854	1.5156	42.7616	0.5175	2.1675	0.0654
Story1	5	107	B235NEG	1.854	1.5156	42.7616	0.5175	2.1675	0.0654
Story1	5	107	B236X Max	17.9177	5.9854	46.4251	13.0858	32.3543	1.9491
Story1	5	107	B236X Min	-14.2097	-2.9542	39.0981	-12.0508	-28.0193	-1.8182
Story1	5	107	B236Y Max	2.8847	8.4528	43.095	20.0964	4.1048	0.8126
Story1	5	107	B236Y Min	0.8233	-5.4217	42.4282	-19.0614	0.2302	-0.6817
Story1	5	107	B237POS	1.9304	1.5814	44.5278	0.7455	2.2491	0.0765
Story1	5	107	B238X Max	13.9782	4.9337	47.2754	10.1718	24.8892	1.4892
Story1	5	107	B238X Min	-10.1175	-1.771	41.7801	-8.6807	-20.391	-1.3362
Story1	5	107	B238Y Max	2.7034	6.7843	44.7778	15.4297	3.7021	0.6368
Story1	5	107	B238Y Min	1.1573	-3.6215	44.2777	-13.9387	0.7962	-0.4839
Story1	5	107	B239POS	1.1124	0.9093	25.657	0.3105	1.3005	0.0393
Story1	5	107	B23-10X Max	17.1761	5.3791	29.3205	12.8788	31.4873	1.9229
Story1	5	107	B23-10X Min	-14.9513	-3.5604	21.9934	-12.2578	-28.8863	-1.8444
Story1	5	107	B23-10Y Max	2.1431	7.8466	25.9903	19.8894	3.2378	0.7864
Story1	5	107	B23-10Y Min	0.0817	-6.0279	25.3236	-19.2684	-0.6368	-0.7079
Story1	5	107	B237NEG	1.9304	1.5814	44.5278	0.7455	2.2491	0.0765
Story1	5	107	B239NEG	1.1124	0.9093	25.657	0.3105	1.3005	0.0393
Story1	5	107	VB244NEG	2.2729	1.8118	52.4911	0.9171	2.65	0.088
Story1	5	107	VB246NEG	2.0197	-0.6893	38.3456	6.5225	2.6114	-0.5986
Story1	5	107	CB246NEG	1.6686	1.364	38.4854	0.4657	1.9508	0.0589
Story1	5	107	C1	2.9664	2.4249	68.4185	0.828	3.4681	0.1047
Story1	5	107	C2	2.7687	2.271	63.8696	1.2414	3.2195	0.1166
Story1	5	107	C3	2.3579	0.061	47.8021	5.7779	2.9437	-0.4385
Story1	5	107	C4	1.9539	-0.3043	38.3718	5.3868	2.4876	-0.4753
Story1	6	16	DEAD	-4.3308	3.2505	42.2405	-3.5096	-5.1592	0.3969
Story1	6	16	LR	-0.3129	0.2955	2.291	-0.3763	-0.3785	0.0576
Story1	6	16	LIVE	-0.0051	-0.3056	-0.1966	0.6241	-0.01	-0.0296
Story1	6	16	1/RX Max	17.4882	23.7953	13.4408	49.3307	36.6178	1.8908

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	6	16	1/RX Min	-17.4882	-23.7953	-13.4408	-49.3307	-36.6178	-1.8908
Story1	6	16	1/RY Max	1.1789	23.4225	13.3747	48.971	2.4155	1.0008
Story1	6	16	1/RY Min	-1.1789	-23.4225	-13.3747	-48.971	-2.4155	-1.0008
Story1	6	16	1OMEG/RX Max	52.4647	71.386	40.3224	147.992	109.8533	5.6724
Story1	6	16	1OMEG/RX Min	-52.4647	-71.386	-40.3224	-147.992	-109.8533	-5.6724
Story1	6	16	1OMEG/RY Max	3.5368	70.2676	40.1241	146.913	7.2466	3.0023
Story1	6	16	1OMEG/RY Min	-3.5368	-70.2676	-40.1241	-146.913	-7.2466	-3.0023
Story1	6	16	VB241	-6.0631	4.5506	59.1367	-4.9134	-7.2229	0.5557
Story1	6	16	VB242	-5.0888	-6.0676	45.9874	16.4461	-5.8339	-0.1745
Story1	6	16	VB243	-5.7027	4.0677	54.1576	-4.1895	-6.8066	0.5389
Story1	6	16	VB244POS	-5.3585	3.7427	51.6375	-3.7756	-6.3903	0.4755
Story1	6	16	VB245X Max	12.2862	27.3903	63.9328	45.7433	30.4167	2.3375
Story1	6	16	VB245X Min	-22.6902	-20.2004	37.0512	-52.9181	-42.8189	-1.4441
Story1	6	16	VB245Y Max	-4.0231	27.0175	63.8667	45.3836	-3.7855	1.4474
Story1	6	16	VB245Y Min	-6.3809	-19.8276	37.1173	-52.5584	-8.6166	-0.5541
Story1	6	16	VB246POS	-3.8977	2.9254	38.0164	-3.1586	-4.6433	0.3572
Story1	6	16	VB247X Max	13.8633	17.0938	45.925	66.0193	32.5369	1.6157
Story1	6	16	VB247X Min	-21.1132	-30.4968	19.0435	-32.6421	-40.6987	-2.1658
Story1	6	16	VB247Y Max	-2.446	16.7211	45.8589	65.6596	-1.6654	0.7257
Story1	6	16	VB247Y Min	-4.8039	-30.124	19.1096	-32.2824	-6.4964	-1.2758
Story1	6	16	VB245CORTX Max	29.7744	51.1856	77.3736	95.074	67.0345	4.2283
Story1	6	16	VB245CORTX Min	-40.1785	-43.9958	23.6104	-102.2488	-79.4366	-3.3349
Story1	6	16	VB245CORTY Max	-2.8442	50.44	77.2414	94.3546	-1.37	2.4482
Story1	6	16	VB245CORTY Min	-7.5599	-43.2502	23.7426	-101.5294	-11.0322	-1.5548
Story1	6	16	VB247CORTX Max	31.3515	40.8892	59.3658	115.35	69.1547	3.5065
Story1	6	16	VB247CORTX Min	-38.6014	-54.2922	5.6027	-81.9728	-77.3165	-4.0566
Story1	6	16	VB247CORTY Max	-1.2671	40.1436	59.2336	114.6306	0.7502	1.7265
Story1	6	16	VB247CORTY Min	-5.9828	-53.5466	5.7349	-81.2534	-8.912	-2.2765
Story1	6	16	CB241	-6.0631	4.5506	59.1367	-4.9134	-7.2229	0.5557
Story1	6	16	CB242	-5.0888	-6.0676	45.9874	16.4461	-5.8339	-0.1745
Story1	6	16	CB243	-5.7027	4.0677	54.1576	-4.1895	-6.8066	0.5389
Story1	6	16	CB244	-5.3585	3.7427	51.6375	-3.7756	-6.3903	0.4755
Story1	6	16	CB245VX Max	12.6399	34.417	67.9452	60.4346	31.1414	2.6377
Story1	6	16	CB245VX Min	-23.0439	-27.2272	33.0388	-67.6094	-43.5435	-1.7443
Story1	6	16	CB245VY Max	1.2234	34.1561	67.8989	60.1828	7.1998	2.0147
Story1	6	16	CB245VY Min	-11.6274	-26.9662	33.0851	-67.3576	-19.6019	-1.1213
Story1	6	16	CB246POS	-3.6249	-6.7015	32.4843	16.6886	-4.0809	-0.275
Story1	6	16	CB247VX Max	14.217	24.1206	49.9374	80.7106	33.2615	1.916
Story1	6	16	CB247VX Min	-21.4668	-37.5236	15.0311	-47.3334	-41.4233	-2.466
Story1	6	16	CB247VY Max	2.8004	23.8597	49.8912	80.4588	9.32	1.293
Story1	6	16	CB247VY Min	-10.0503	-37.2626	15.0773	-47.0816	-17.4818	-1.843
Story1	6	16	CB245VCORTX Max	48.3237	96.0612	102.8516	188.4785	105.8263	7.0197
Story1	6	16	CB245VCORTX Min	-58.7277	-88.8714	-1.8676	-195.6534	-118.2284	-6.1263
Story1	6	16	CB245VCORTY Max	14.0741	95.2784	102.7128	187.7232	34.0016	5.1507
Story1	6	16	CB245VCORTY Min	-24.4782	-88.0885	-1.7288	-194.8981	-46.4037	-4.2573

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	6	16	CB247VCORTX Max	49.9008	85.7648	84.8438	208.7546	107.9464	6.298
Story1	6	16	CB247VCORTX Min	-57.1506	-99.1678	-19.8753	-175.3774	-116.1082	-6.8481
Story1	6	16	CB247VCORTY Max	15.6512	84.982	84.7051	207.9992	36.1217	4.4289
Story1	6	16	CB247VCORTY Min	-22.9011	-98.3849	-19.7366	-174.6221	-44.2835	-4.979
Story1	6	16	B231	-4.3308	3.2505	42.2405	-3.5096	-5.1592	0.3969
Story1	6	16	B232	-4.3359	2.9448	42.0439	-2.8855	-5.1692	0.3673
Story1	6	16	B233	-4.6437	3.5459	44.5315	-3.8859	-5.5377	0.4546
Story1	6	16	B234	-4.6488	3.2403	44.3349	-3.2618	-5.5477	0.4249
Story1	6	16	B235POS	-4.3308	3.2505	42.2405	-3.5096	-5.1592	0.3969
Story1	6	16	B235NEG	-4.3308	3.2505	42.2405	-3.5096	-5.1592	0.3969
Story1	6	16	B236X Max	7.911	19.9072	51.649	31.0219	20.4732	1.7205
Story1	6	16	B236X Min	-16.5725	-13.4063	32.8319	-38.0411	-30.7917	-0.9266
Story1	6	16	B236Y Max	-3.5055	19.6462	51.6028	30.7701	-3.4683	1.0975
Story1	6	16	B236Y Min	-5.156	-13.1453	32.8782	-37.7893	-6.8501	-0.3036
Story1	6	16	B237POS	-4.5693	3.2428	43.8113	-3.3237	-5.4506	0.4179
Story1	6	16	B238X Max	4.612	15.7354	50.8677	22.5749	13.7738	1.4106
Story1	6	16	B238X Min	-13.7506	-9.2497	36.7549	-29.2224	-24.6749	-0.5747
Story1	6	16	B238Y Max	-3.9504	15.5397	50.833	22.386	-4.1824	0.9433
Story1	6	16	B238Y Min	-5.1882	-9.054	36.7896	-29.0335	-6.7187	-0.1075
Story1	6	16	B239POS	-2.5985	1.9503	25.3443	-2.1057	-3.0955	0.2382
Story1	6	16	B23-10X Max	9.6433	18.607	34.7528	32.4257	22.5369	1.5617
Story1	6	16	B23-10X Min	-14.8402	-14.7065	15.9357	-36.6372	-28.728	-1.0854
Story1	6	16	B23-10Y Max	-1.7732	18.3461	34.7066	32.174	-1.4046	0.9387
Story1	6	16	B23-10Y Min	-3.4237	-14.4455	15.982	-36.3855	-4.7864	-0.4624
Story1	6	16	B237NEG	-4.5693	3.2428	43.8113	-3.3237	-5.4506	0.4179
Story1	6	16	B239NEG	-2.5985	1.9503	25.3443	-2.1057	-3.0955	0.2382
Story1	6	16	VB244NEG	-5.3585	3.7427	51.6375	-3.7756	-6.3903	0.4755
Story1	6	16	VB246NEG	-3.6249	-6.7015	32.4843	16.6886	-4.0809	-0.275
Story1	6	16	CB246NEG	-3.8977	2.9254	38.0164	-3.1586	-4.6433	0.3572
Story1	6	16	C1	-6.9292	5.2007	67.5848	-5.6153	-8.2547	0.6351
Story1	6	16	C2	-6.6038	4.5334	62.6972	-4.4922	-7.8833	0.6033
Story1	6	16	C3	-4.7362	-4.3015	42.6076	12.5099	-5.4645	-0.0532
Story1	6	16	C4	-3.6761	-4.8964	33.5215	12.9672	-4.1863	-0.1565
Story1	7	29	DEAD	1.8686	-2.4533	42.2903	3.5201	1.081	-0.1478
Story1	7	29	LR	0.2048	-0.1329	2.243	0.1714	0.1243	-0.016
Story1	7	29	LIVE	-0.0447	-0.2011	0.6159	0.4429	-0.1011	0.0136
Story1	7	29	1/RX Max	11.4904	31.7039	2.9776	60.3181	31.911	2.7218
Story1	7	29	1/RX Min	-11.4904	-31.7039	-2.9776	-60.3181	-31.911	-2.7218
Story1	7	29	1/RY Max	1.3639	30.3463	1.8956	57.6272	3.6147	0.712
Story1	7	29	1/RY Min	-1.3639	-30.3463	-1.8956	-57.6272	-3.6147	-0.712
Story1	7	29	1OMEG/RX Max	34.4711	95.1117	8.9327	180.9543	95.7329	8.1654
Story1	7	29	1OMEG/RX Min	-34.4711	-95.1117	-8.9327	-180.9543	-95.7329	-8.1654
Story1	7	29	1OMEG/RY Max	4.0918	91.039	5.6869	172.8816	10.844	2.136
Story1	7	29	1OMEG/RY Min	-4.0918	-91.039	-5.6869	-172.8816	-10.844	-2.136
Story1	7	29	VB241	2.616	-3.4346	59.2064	4.9282	1.5134	-0.2069

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	7	29	VB242	2.2267	-15.372	57.0722	28.2308	1.0573	-0.0041
Story1	7	29	VB243	2.5252	-3.3577	54.953	4.9413	1.395	-0.1894
Story1	7	29	VB244POS	2.2999	-3.2115	52.4857	4.7527	1.2583	-0.1717
Story1	7	29	VB245X Max	13.6879	28.5588	54.3418	64.9851	33.1071	2.5581
Story1	7	29	VB245X Min	-9.2928	-34.8489	48.3866	-55.6511	-30.7148	-2.8855
Story1	7	29	VB245Y Max	3.5615	27.2013	53.2599	62.2942	4.8108	0.5483
Story1	7	29	VB245Y Min	0.8336	-33.4914	49.4686	-52.9602	-2.4185	-0.8757
Story1	7	29	VB246POS	1.6817	-2.208	38.0613	3.1681	0.9729	-0.133
Story1	7	29	VB247X Max	13.1257	17.4561	45.2558	86.6986	32.7436	2.7483
Story1	7	29	VB247X Min	-9.855	-45.9517	39.3007	-33.9376	-31.0783	-2.6953
Story1	7	29	VB247Y Max	2.9993	16.0986	44.1739	84.0077	4.4473	0.7385
Story1	7	29	VB247Y Min	0.2714	-44.5941	40.3826	-31.2467	-2.782	-0.6855
Story1	7	29	VB245CORTX Max	25.1783	60.2627	57.3194	125.3032	65.018	5.2799
Story1	7	29	VB245CORTX Min	-20.7832	-66.5528	45.4091	-115.9692	-62.6258	-5.6073
Story1	7	29	VB245CORTY Max	4.9255	57.5476	55.1555	119.9214	8.4254	1.2603
Story1	7	29	VB245CORTY Min	-0.5303	-63.8377	47.573	-110.5873	-6.0332	-1.5877
Story1	7	29	VB247CORTX Max	24.6161	49.16	48.2334	147.0167	64.6545	5.4701
Story1	7	29	VB247CORTX Min	-21.3454	-77.6555	36.3231	-94.2557	-62.9893	-5.4171
Story1	7	29	VB247CORTY Max	4.3632	46.4449	46.0695	141.6349	8.0619	1.4506
Story1	7	29	VB247CORTY Min	-1.0925	-74.9404	38.487	-88.8739	-6.3967	-1.3975
Story1	7	29	CB241	2.616	-3.4346	59.2064	4.9282	1.5134	-0.2069
Story1	7	29	CB242	2.2267	-15.372	57.0722	28.2308	1.0573	-0.0041
Story1	7	29	CB243	2.5252	-3.3577	54.953	4.9413	1.395	-0.1894
Story1	7	29	CB244	2.2999	-3.2115	52.4857	4.7527	1.2583	-0.1717
Story1	7	29	CB245VX Max	14.0971	37.6627	54.9105	82.2733	34.1915	2.7717
Story1	7	29	CB245VX Min	-9.702	-43.9528	47.818	-72.9392	-31.7992	-3.0991
Story1	7	29	CB245VY Max	7.0086	36.7124	54.1531	80.3896	14.3841	1.3648
Story1	7	29	CB245VY Min	-2.6135	-43.0025	48.5753	-71.0556	-11.9918	-1.6923
Story1	7	29	CB246POS	1.6353	-14.2478	42.2783	26.3805	0.8326	0.0265
Story1	7	29	CB247VX Max	13.5349	26.56	45.8245	103.9868	33.828	2.9619
Story1	7	29	CB247VX Min	-10.2642	-55.0556	38.732	-51.2258	-32.1627	-2.9089
Story1	7	29	CB247VY Max	6.4464	25.6097	45.0672	102.1031	14.0206	1.5551
Story1	7	29	CB247VY Min	-3.1757	-54.1053	39.4893	-49.3421	-12.3553	-1.502
Story1	7	29	CB245VCORTX Max	37.8962	119.2783	62.003	237.4858	100.1822	8.6425
Story1	7	29	CB245VCORTX Min	-33.5011	-125.5684	40.7254	-228.1518	-97.79	-8.97
Story1	7	29	CB245VCORTY Max	16.6307	116.4274	59.7309	231.8349	40.76	4.4219
Story1	7	29	CB245VCORTY Min	-12.2356	-122.7175	42.9975	-222.5008	-38.3677	-4.7494
Story1	7	29	CB247VCORTX Max	37.334	108.1756	52.9171	259.1993	99.8187	8.8328
Story1	7	29	CB247VCORTX Min	-34.0633	-136.6711	31.6394	-206.4383	-98.1535	-8.7797
Story1	7	29	CB247VCORTY Max	16.0685	105.3247	50.645	253.5483	40.3965	4.6122
Story1	7	29	CB247VCORTY Min	-12.7978	-133.8202	33.9115	-200.7873	-38.7312	-4.5591
Story1	7	29	B231	1.8686	-2.4533	42.2903	3.5201	1.081	-0.1478
Story1	7	29	B232	1.8238	-2.6544	42.9062	3.963	0.9799	-0.1342
Story1	7	29	B233	2.0733	-2.5862	44.5333	3.6916	1.2054	-0.1638
Story1	7	29	B234	2.0286	-2.7873	45.1492	4.1344	1.1042	-0.1502

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	7	29	B235POS	1.8686	-2.4533	42.2903	3.5201	1.081	-0.1478
Story1	7	29	B235NEG	1.8686	-2.4533	42.2903	3.5201	1.081	-0.1478
Story1	7	29	B236X Max	9.9118	19.7394	44.3746	45.7428	23.4187	1.7575
Story1	7	29	B236X Min	-6.1747	-24.646	40.206	-38.7025	-21.2566	-2.053
Story1	7	29	B236Y Max	2.8233	18.7891	43.6173	43.8592	3.6113	0.3506
Story1	7	29	B236Y Min	0.9138	-23.6957	40.9634	-36.8189	-1.4492	-0.6462
Story1	7	29	B237POS	1.9886	-2.7038	44.4344	3.9809	1.0984	-0.1496
Story1	7	29	B238X Max	8.021	13.9408	45.9977	35.6479	17.8517	1.2793
Story1	7	29	B238X Min	-4.0438	-19.3483	42.8712	-27.6861	-15.6548	-1.5786
Story1	7	29	B238Y Max	2.7047	13.228	45.4297	34.2351	2.9961	0.2242
Story1	7	29	B238Y Min	1.2725	-18.6356	43.4392	-26.2734	-0.7993	-0.5234
Story1	7	29	B239POS	1.1211	-1.472	25.3742	2.1121	0.6486	-0.0887
Story1	7	29	B23-10X Max	9.1644	20.7208	27.4585	44.3348	22.9863	1.8166
Story1	7	29	B23-10X Min	-6.9221	-23.6647	23.2899	-40.1106	-21.6891	-1.9939
Story1	7	29	B23-10Y Max	2.0759	19.7705	26.7011	42.4511	3.1789	0.4098
Story1	7	29	B23-10Y Min	0.1664	-22.7144	24.0472	-38.2269	-1.8816	-0.5871
Story1	7	29	B237NEG	1.9886	-2.7038	44.4344	3.9809	1.0984	-0.1496
Story1	7	29	B239NEG	1.1211	-1.472	25.3742	2.1121	0.6486	-0.0887
Story1	7	29	VB244NEG	2.2999	-3.2115	52.4857	4.7527	1.2583	-0.1717
Story1	7	29	VB246NEG	1.6353	-14.2478	42.2783	26.3805	0.8326	0.0265
Story1	7	29	CB246NEG	1.6817	-2.208	38.0613	3.1681	0.9729	-0.133
Story1	7	29	C1	2.9897	-3.9253	67.6645	5.6322	1.7297	-0.2364
Story1	7	29	C2	2.8881	-4.0024	64.0665	5.9725	1.5529	-0.211
Story1	7	29	C3	2.1298	-12.6353	51.4377	23.0523	1.0525	-0.0307
Story1	7	29	C4	1.644	-11.9903	41.4876	22.0282	0.8589	-0.0034
Story1	8	113	DEAD	0.1883	-6.043	70.6869	7.7246	0.8949	0.0875
Story1	8	113	LR	-0.0025	-0.6561	6.5547	0.8093	0.0651	0.0079
Story1	8	113	LIVE	0.0398	-0.1139	0.279	0.2403	0.0712	0.0119
Story1	8	113	1/RX Max	19.8557	21.1304	17.2753	40.1702	39.3938	3.3059
Story1	8	113	1/RX Min	-19.8557	-21.1304	-17.2753	-40.1702	-39.3938	-3.3059
Story1	8	113	1/RY Max	1.1212	33.439	2.1233	63.6177	2.2696	1.0598
Story1	8	113	1/RY Min	-1.1212	-33.439	-2.1233	-63.6177	-2.2696	-1.0598
Story1	8	113	1OMEG/RX Max	59.5671	63.3912	51.8259	120.5107	118.1813	9.9176
Story1	8	113	1OMEG/RX Min	-59.5671	-63.3912	-51.8259	-120.5107	-118.1813	-9.9176
Story1	8	113	1OMEG/RY Max	3.3637	100.3171	6.3699	190.8531	6.8088	3.1793
Story1	8	113	1OMEG/RY Min	-3.3637	-100.3171	-6.3699	-190.8531	-6.8088	-3.1793
Story1	8	113	VB241	0.2636	-8.4602	98.9616	10.8144	1.2529	0.1225
Story1	8	113	VB242	0.0493	-18.9987	92.8283	31.7846	0.7444	0.8235
Story1	8	113	VB243	0.2618	-8.4152	95.5907	10.8046	1.2493	0.1297
Story1	8	113	VB244POS	0.2645	-7.6935	88.3806	9.9144	1.1777	0.1209
Story1	8	113	VB245X Max	20.1215	13.7649	102.3785	49.68	40.5389	3.4228
Story1	8	113	VB245X Min	-19.5899	-28.4959	67.8279	-30.6604	-38.2486	-3.1889
Story1	8	113	VB245Y Max	1.387	26.0736	87.2265	73.1275	3.4147	1.1767
Story1	8	113	VB245Y Min	-0.8555	-40.8045	82.9799	-54.1079	-1.1245	-0.9428
Story1	8	113	VB246POS	0.1694	-5.4387	63.6182	6.9521	0.8054	0.0787

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	8	113	VB247X Max	19.7861	4.4548	85.1738	68.8484	39.7232	4.08
Story1	8	113	VB247X Min	-19.9253	-37.806	50.6232	-11.4921	-39.0643	-2.5317
Story1	8	113	VB247Y Max	1.0516	16.7635	70.0218	92.2959	2.599	1.834
Story1	8	113	VB247Y Min	-1.1908	-50.1146	65.7752	-34.9395	-1.9402	-0.2856
Story1	8	113	VB245CORTX Max	39.9772	34.8953	119.6538	89.8502	79.9326	6.7286
Story1	8	113	VB245CORTX Min	-39.4456	-49.6263	50.5526	-70.8307	-77.6424	-6.4948
Story1	8	113	VB245CORTY Max	2.5082	59.5126	89.3498	136.7452	5.6843	2.2365
Story1	8	113	VB245CORTY Min	-1.9767	-74.2436	80.8566	-117.7256	-3.3941	-2.0026
Story1	8	113	VB247CORTX Max	39.6418	25.5852	102.4491	109.0186	79.1169	7.3859
Story1	8	113	VB247CORTX Min	-39.781	-58.9364	33.3479	-51.6623	-78.4581	-5.8375
Story1	8	113	VB247CORTY Max	2.1728	50.2025	72.1451	155.9135	4.8686	2.8938
Story1	8	113	VB247CORTY Min	-2.3121	-83.5537	63.6519	-98.5572	-4.2098	-1.3454
Story1	8	113	CB241	0.2636	-8.4602	98.9616	10.8144	1.2529	0.1225
Story1	8	113	CB242	0.0493	-18.9987	92.8283	31.7846	0.7444	0.8235
Story1	8	113	CB243	0.2618	-8.4152	95.5907	10.8046	1.2493	0.1297
Story1	8	113	CB244	0.2645	-7.6935	88.3806	9.9144	1.1777	0.1209
Story1	8	113	CB245VX Max	20.4578	23.7966	103.0155	68.7653	41.2197	3.7407
Story1	8	113	CB245VX Min	-19.9263	-38.5276	67.1909	-49.7458	-38.9295	-3.5069
Story1	8	113	CB245VY Max	7.3437	32.4127	92.4091	85.1785	15.2328	2.1685
Story1	8	113	CB245VY Min	-6.8122	-47.1437	77.7973	-66.159	-12.9426	-1.9346
Story1	8	113	CB246POS	-0.0696	-16.6756	67.8985	28.6782	0.3294	0.7742
Story1	8	113	CB247VX Max	20.1224	14.4866	85.8108	87.9337	40.4041	4.398
Story1	8	113	CB247VX Min	-20.2617	-47.8377	49.9862	-30.5774	-39.7452	-2.8496
Story1	8	113	CB247VY Max	7.0083	23.1026	75.2044	104.3469	14.4172	2.8257
Story1	8	113	CB247VY Min	-7.1476	-56.4537	60.5926	-46.9906	-13.7583	-1.2773
Story1	8	113	CB245VCORTX Max	60.842	86.1209	138.8401	187.2764	121.369	10.9883
Story1	8	113	CB245VCORTX Min	-60.3104	-100.8518	31.3663	-168.2568	-119.0788	-10.7544
Story1	8	113	CB245VCORTY Max	21.4996	111.969	107.0209	236.516	43.4083	6.2715
Story1	8	113	CB245VCORTY Min	-20.968	-126.7	63.1855	-217.4965	-41.1181	-6.0377
Story1	8	113	CB247VCORTX Max	60.5066	76.8108	121.6354	206.4448	120.5533	11.6455
Story1	8	113	CB247VCORTX Min	-60.6458	-110.1619	14.1616	-149.0884	-119.8945	-10.0972
Story1	8	113	CB247VCORTY Max	21.1642	102.6589	89.8162	255.6844	42.5926	6.9288
Story1	8	113	CB247VCORTY Min	-21.3034	-136.0101	45.9808	-198.3281	-41.9337	-5.3804
Story1	8	113	B231	0.1883	-6.043	70.6869	7.7246	0.8949	0.0875
Story1	8	113	B232	0.2281	-6.1569	70.9658	7.9649	0.9661	0.0994
Story1	8	113	B233	0.1858	-6.6991	77.2415	8.5339	0.96	0.0954
Story1	8	113	B234	0.2256	-6.813	77.5205	8.7741	1.0312	0.1074
Story1	8	113	B235POS	0.1883	-6.043	70.6869	7.7246	0.8949	0.0875
Story1	8	113	B235NEG	0.1883	-6.043	70.6869	7.7246	0.8949	0.0875
Story1	8	113	B236X Max	14.0873	8.7483	82.7796	35.8438	28.4705	2.4016
Story1	8	113	B236X Min	-13.7107	-20.8343	58.5942	-20.3946	-26.6807	-2.2266
Story1	8	113	B236Y Max	0.9731	17.3643	72.1732	52.257	2.4836	0.8293
Story1	8	113	B236Y Min	-0.5966	-29.4503	69.2006	-36.8078	-0.6938	-0.6543
Story1	8	113	B237POS	0.2163	-6.6205	75.8121	8.5117	0.9971	0.1024
Story1	8	113	B238X Max	10.6405	4.473	84.8816	29.6011	21.6789	1.838

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	8	113	B238X Min	-10.208	-17.7139	66.7426	-12.5776	-19.6846	-1.6332
Story1	8	113	B238Y Max	0.8049	10.935	76.9268	41.911	2.1887	0.6588
Story1	8	113	B238Y Min	-0.3724	-24.176	74.6974	-24.8875	-0.1944	-0.454
Story1	8	113	B239POS	0.113	-3.6258	42.4121	4.6348	0.5369	0.0525
Story1	8	113	B23-10X Max	14.012	11.1655	54.5048	32.7539	28.1126	2.3666
Story1	8	113	B23-10X Min	-13.786	-18.4171	30.3194	-23.4844	-27.0387	-2.2616
Story1	8	113	B23-10Y Max	0.8978	19.7815	43.8984	49.1671	2.1257	0.7943
Story1	8	113	B23-10Y Min	-0.6719	-27.0331	40.9258	-39.8976	-1.0518	-0.6893
Story1	8	113	B237NEG	0.2163	-6.6205	75.8121	8.5117	0.9971	0.1024
Story1	8	113	B239NEG	0.113	-3.6258	42.4121	4.6348	0.5369	0.0525
Story1	8	113	VB244NEG	0.2645	-7.6935	88.3806	9.9144	1.1777	0.1209
Story1	8	113	VB246NEG	-0.0696	-16.6756	67.8985	28.6782	0.3294	0.7742
Story1	8	113	CB246NEG	0.1694	-5.4387	63.6182	6.9521	0.8054	0.0787
Story1	8	113	C1	0.3012	-9.6688	113.099	12.3594	1.4318	0.14
Story1	8	113	C2	0.327	-9.7692	110.5788	12.5986	1.4846	0.1563
Story1	8	113	C3	0.0542	-16.3202	86.3925	26.835	0.7333	0.6737
Story1	8	113	C4	-0.0248	-14.5687	67.0959	24.6045	0.4187	0.6438
Story1	9	114	DEAD	1.7583	-12.0427	73.9185	14.9952	2.7654	-0.1896
Story1	9	114	LR	0.1759	-1.396	6.9787	1.716	0.2776	-0.0249
Story1	9	114	LIVE	0.0325	-0.089	0.0705	0.1871	0.0628	0.002
Story1	9	114	1/RX Max	23.0721	11.6607	12.4016	23.4048	43.2039	2.5733
Story1	9	114	1/RX Min	-23.0721	-11.6607	-12.4016	-23.4048	-43.2039	-2.5733
Story1	9	114	1/RY Max	1.3818	23.5192	14.395	47.3647	2.5791	1.4953
Story1	9	114	1/RY Min	-1.3818	-23.5192	-14.395	-47.3647	-2.5791	-1.4953
Story1	9	114	1OMEG/RX Max	69.2163	34.9822	37.2048	70.2144	129.6118	7.72
Story1	9	114	1OMEG/RX Min	-69.2163	-34.9822	-37.2048	-70.2144	-129.6118	-7.72
Story1	9	114	1OMEG/RY Max	4.1455	70.5575	43.185	142.0941	7.7373	4.4858
Story1	9	114	1OMEG/RY Min	-4.1455	-70.5575	-43.185	-142.0941	-7.7373	-4.4858
Story1	9	114	VB241	2.4616	-16.8598	103.4858	20.9933	3.8716	-0.2654
Story1	9	114	VB242	1.9637	-20.7029	95.9768	30.1404	3.0257	0.8492
Story1	9	114	VB243	2.424	-16.7739	99.9387	20.9268	3.8255	-0.2654
Story1	9	114	VB244POS	2.2304	-15.2383	92.262	19.0393	3.5201	-0.238
Story1	9	114	VB245X Max	25.2146	-2.8795	101.1742	41.5861	46.5852	2.3478
Story1	9	114	VB245X Min	-20.9296	-26.201	76.3711	-5.2235	-39.8226	-2.7989
Story1	9	114	VB245Y Max	3.5243	8.9789	103.1677	65.546	5.9604	1.2697
Story1	9	114	VB245Y Min	0.7606	-38.0594	74.3777	-29.1834	0.8022	-1.7208
Story1	9	114	VB246POS	1.5824	-10.8385	66.5266	13.4957	2.4889	-0.1706
Story1	9	114	VB247X Max	24.3683	-4.589	82.6006	47.8893	45.1607	3.4887
Story1	9	114	VB247X Min	-21.7759	-27.9105	57.7974	1.0797	-41.2471	-1.658
Story1	9	114	VB247Y Max	2.678	7.2694	84.594	71.8492	4.5359	2.4106
Story1	9	114	VB247Y Min	-0.0856	-39.7689	55.804	-22.8802	-0.6223	-0.5799
Story1	9	114	VB245CORTX Max	48.2867	8.7812	113.5758	64.9909	89.7891	4.9211
Story1	9	114	VB245CORTX Min	-44.0017	-37.8617	63.9695	-28.6283	-83.0265	-5.3722
Story1	9	114	VB245CORTY Max	4.9061	32.4981	117.5627	112.9107	8.5395	2.765
Story1	9	114	VB245CORTY Min	-0.6212	-61.5786	59.9827	-76.5481	-1.7769	-3.216

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	9	114	VB247CORTX Max	47.4404	7.0717	95.0022	71.2941	88.3646	6.062
Story1	9	114	VB247CORTX Min	-44.848	-39.5712	45.3959	-22.3251	-84.451	-4.2313
Story1	9	114	VB247CORTY Max	4.0598	30.7886	98.989	119.2139	7.115	3.9059
Story1	9	114	VB247CORTY Min	-1.4675	-63.2881	41.409	-70.2449	-3.2014	-2.0751
Story1	9	114	CB241	2.4616	-16.8598	103.4858	20.9933	3.8716	-0.2654
Story1	9	114	CB242	1.9637	-20.7029	95.9768	30.1404	3.0257	0.8492
Story1	9	114	CB243	2.424	-16.7739	99.9387	20.9268	3.8255	-0.2654
Story1	9	114	CB244	2.2304	-15.2383	92.262	19.0393	3.5201	-0.238
Story1	9	114	CB245VX Max	25.6291	4.1762	105.4927	55.7955	47.3589	2.7964
Story1	9	114	CB245VX Min	-21.3442	-33.2567	72.0526	-19.4329	-40.5963	-3.2474
Story1	9	114	CB245VY Max	10.4459	12.4772	106.8881	72.5674	18.9216	2.0417
Story1	9	114	CB245VY Min	-6.161	-41.5576	70.6572	-36.2048	-12.159	-2.4928
Story1	9	114	CB246POS	1.2962	-16.2497	70.199	24.4845	1.9568	0.9154
Story1	9	114	CB247VX Max	24.7828	2.4668	86.9191	62.0987	45.9344	3.9373
Story1	9	114	CB247VX Min	-22.1905	-34.9662	53.4789	-13.1297	-42.0209	-2.1065
Story1	9	114	CB247VY Max	9.5996	10.7677	88.3145	78.8707	17.4971	3.1826
Story1	9	114	CB247VY Min	-7.0073	-43.2671	52.0836	-29.9016	-13.5835	-1.3519
Story1	9	114	CB245VCORTX Max	72.6024	41.6092	138.9329	131.0239	135.3142	8.8402
Story1	9	114	CB245VCORTX Min	-68.3175	-70.6897	38.6124	-94.6613	-128.5516	-9.2912
Story1	9	114	CB245VCORTY Max	27.0528	66.512	143.1191	181.3397	50.0021	6.5762
Story1	9	114	CB245VCORTY Min	-22.7679	-95.5924	34.4262	-144.9771	-43.2395	-7.0273
Story1	9	114	CB247VCORTX Max	71.7561	39.8997	120.3593	137.3272	133.8897	9.9811
Story1	9	114	CB247VCORTX Min	-69.1638	-72.3992	20.0388	-88.3581	-129.9761	-8.1504
Story1	9	114	CB247VCORTY Max	26.2065	64.8025	124.5455	187.6429	48.5776	7.7171
Story1	9	114	CB247VCORTY Min	-23.6142	-97.3019	15.8526	-138.6739	-44.664	-5.8864
Story1	9	114	B231	1.7583	-12.0427	73.9185	14.9952	2.7654	-0.1896
Story1	9	114	B232	1.7908	-12.1317	73.989	15.1823	2.8282	-0.1876
Story1	9	114	B233	1.9342	-13.4388	80.8972	16.7111	3.043	-0.2145
Story1	9	114	B234	1.9667	-13.5277	80.9677	16.8982	3.1058	-0.2125
Story1	9	114	B235POS	1.7583	-12.0427	73.9185	14.9952	2.7654	-0.1896
Story1	9	114	B235NEG	1.7583	-12.0427	73.9185	14.9952	2.7654	-0.1896
Story1	9	114	B236X Max	17.9088	-3.8802	82.5996	31.3786	33.0082	1.6117
Story1	9	114	B236X Min	-14.3922	-20.2052	65.2373	-1.3882	-27.4773	-1.9909
Story1	9	114	B236Y Max	2.7256	4.4207	83.995	48.1505	4.5708	0.8571
Story1	9	114	B236Y Min	0.791	-28.5062	63.842	-18.1601	0.96	-1.2363
Story1	9	114	B237POS	1.9146	-13.1565	79.2054	16.4225	3.0207	-0.2068
Story1	9	114	B238X Max	14.0275	-7.0346	85.7162	28.71	25.7028	1.1442
Story1	9	114	B238X Min	-10.1982	-19.2784	72.6946	4.1349	-19.6613	-1.5578
Story1	9	114	B238Y Max	2.6401	-0.8089	86.7628	41.2889	4.3747	0.5782
Story1	9	114	B238Y Min	1.1892	-25.5041	71.648	-8.444	1.6667	-0.9918
Story1	9	114	B239POS	1.055	-7.2256	44.3511	8.9971	1.6592	-0.1138
Story1	9	114	B23-10X Max	17.2054	0.9369	53.0322	25.3805	31.902	1.6876
Story1	9	114	B23-10X Min	-15.0955	-15.3882	35.67	-7.3862	-28.5835	-1.9151
Story1	9	114	B23-10Y Max	2.0222	9.2378	54.4276	42.1524	3.4646	0.9329
Story1	9	114	B23-10Y Min	0.0877	-23.6891	34.2746	-24.1582	-0.1461	-1.1604

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	9	114	B237NEG	1.9146	-13.1565	79.2054	16.4225	3.0207	-0.2068
Story1	9	114	B239NEG	1.055	-7.2256	44.3511	8.9971	1.6592	-0.1138
Story1	9	114	VB244NEG	2.2304	-15.2383	92.262	19.0393	3.5201	-0.238
Story1	9	114	VB246NEG	1.2962	-16.2497	70.199	24.4845	1.9568	0.9154
Story1	9	114	CB246NEG	1.5824	-10.8385	66.5266	13.4957	2.4889	-0.1706
Story1	9	114	C1	2.8132	-19.2684	118.2695	23.9923	4.4247	-0.3034
Story1	9	114	C2	2.816	-19.3843	115.4696	24.2284	4.4503	-0.3045
Story1	9	114	C3	1.884	-18.8747	89.5754	26.9719	2.9138	0.6403
Story1	9	114	C4	1.3499	-15.2351	69.5105	22.4241	2.0566	0.7117
Story1	10	115	DEAD	-0.6425	-15.0742	75.1045	19.6338	-0.0725	-0.3992
Story1	10	115	LR	-0.0662	-1.8015	7.4728	2.3115	-0.0087	-0.0319
Story1	10	115	LIVE	0.0396	-0.2201	0.2125	0.4632	0.0717	-0.1081
Story1	10	115	1/RX Max	22.5302	9.5271	9.9111	19.2368	42.5499	2.9855
Story1	10	115	1/RX Min	-22.5302	-9.5271	-9.9111	-19.2368	-42.5499	-2.9855
Story1	10	115	1/RY Max	1.3672	20.0721	13.1205	40.7136	2.5588	0.9954
Story1	10	115	1/RY Min	-1.3672	-20.0721	-13.1205	-40.7136	-2.5588	-0.9954
Story1	10	115	1OMEG/RX Max	67.5906	28.5812	29.7334	57.7104	127.6497	8.9564
Story1	10	115	1OMEG/RX Min	-67.5906	-28.5812	-29.7334	-57.7104	-127.6497	-8.9564
Story1	10	115	1OMEG/RY Max	4.1015	60.2163	39.3616	122.1409	7.6765	2.9861
Story1	10	115	1OMEG/RY Min	-4.1015	-60.2163	-39.3616	-122.1409	-7.6765	-2.9861
Story1	10	115	VB241	-0.8995	-21.1038	105.1463	27.4874	-0.1015	-0.5589
Story1	10	115	VB242	-1.0086	-23.1087	97.09	33.3348	-0.4786	-1.6669
Story1	10	115	VB243	-0.8372	-21.1915	102.2944	27.7221	-0.0292	-0.6382
Story1	10	115	VB244POS	-0.7644	-19.2099	94.0743	25.1795	-0.0196	-0.6031
Story1	10	115	VB245X Max	21.7989	-8.782	100.249	43.2606	42.5346	2.3983
Story1	10	115	VB245X Min	-23.2615	-27.8362	80.4267	4.787	-42.5652	-3.5726
Story1	10	115	VB245Y Max	0.6358	1.763	103.4584	64.7374	2.5435	0.4082
Story1	10	115	VB245Y Min	-2.0985	-38.3812	77.2173	-16.6898	-2.5741	-1.5825
Story1	10	115	VB246POS	-0.5782	-13.5667	67.594	17.6704	-0.0653	-0.3593
Story1	10	115	VB247X Max	21.684	-7.8064	80.3934	44.7846	41.9826	1.6273
Story1	10	115	VB247X Min	-23.3764	-26.8606	60.5711	6.311	-43.1172	-4.3437
Story1	10	115	VB247Y Max	0.521	2.7386	83.6028	66.2614	1.9915	-0.3628
Story1	10	115	VB247Y Min	-2.2133	-37.4056	57.3617	-15.1658	-3.1261	-2.3536
Story1	10	115	VB245CORTX Max	44.3291	0.745	110.1602	62.4974	85.0845	5.3838
Story1	10	115	VB245CORTX Min	-45.7917	-37.3632	70.5156	-14.4498	-85.1151	-6.5581
Story1	10	115	VB245CORTY Max	2.003	21.8351	116.579	105.451	5.1024	1.4036
Story1	10	115	VB245CORTY Min	-3.4657	-58.4533	64.0968	-57.4035	-5.133	-2.5779
Story1	10	115	VB247CORTX Max	44.2143	1.7206	90.3046	64.0214	84.5325	4.6127
Story1	10	115	VB247CORTX Min	-45.9066	-36.3876	50.66	-12.9258	-85.6671	-7.3292
Story1	10	115	VB247CORTY Max	1.8882	22.8107	96.7233	106.9751	4.5503	0.6325
Story1	10	115	VB247CORTY Min	-3.5805	-57.4777	44.2412	-55.8794	-5.685	-3.349
Story1	10	115	CB241	-0.8995	-21.1038	105.1463	27.4874	-0.1015	-0.5589
Story1	10	115	CB242	-1.0086	-23.1087	97.09	33.3348	-0.4786	-1.6669
Story1	10	115	CB243	-0.8372	-21.1915	102.2944	27.7221	-0.0292	-0.6382
Story1	10	115	CB244	-0.7644	-19.2099	94.0743	25.1795	-0.0196	-0.6031

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	10	115	CB245VX Max	22.209	-2.7604	104.1852	55.4747	43.3022	2.6969
Story1	10	115	CB245VX Min	-23.6717	-33.8578	76.4906	-7.4271	-43.3328	-3.8712
Story1	10	115	CB245VY Max	7.3949	4.6211	106.4318	70.5084	15.3085	1.3039
Story1	10	115	CB245VY Min	-8.8576	-41.2393	74.244	-22.4609	-15.3391	-2.4782
Story1	10	115	CB246POS	-0.8462	-17.3335	70.4823	25.5478	-0.5673	-1.3582
Story1	10	115	CB247VX Max	22.0942	-1.7848	84.3296	56.9987	42.7502	1.9259
Story1	10	115	CB247VX Min	-23.7865	-32.8822	56.635	-5.9031	-43.8849	-4.6423
Story1	10	115	CB247VY Max	7.2801	5.5967	86.5761	72.0325	14.7565	0.5328
Story1	10	115	CB247VY Min	-8.9724	-40.2637	54.3884	-20.9369	-15.8911	-3.2492
Story1	10	115	CB245VCORTX Max	68.0898	28.337	131.8798	118.3764	129.9373	9.2651
Story1	10	115	CB245VCORTX Min	-69.5524	-64.9552	48.796	-70.3289	-129.9679	-10.4394
Story1	10	115	CB245VCORTY Max	23.6474	50.4816	138.6195	163.4778	45.9561	5.0859
Story1	10	115	CB245VCORTY Min	-25.11	-87.0998	42.0562	-115.4302	-45.9867	-6.2602
Story1	10	115	CB247VCORTX Max	67.9749	29.3126	112.0242	119.9005	129.3853	8.494
Story1	10	115	CB247VCORTX Min	-69.6672	-63.9796	28.9403	-68.8048	-130.5199	-11.2105
Story1	10	115	CB247VCORTY Max	23.5325	51.4572	118.7639	165.0018	45.4041	4.3148
Story1	10	115	CB247VCORTY Min	-25.2249	-86.1242	22.2006	-113.9062	-46.5387	-7.0313
Story1	10	115	B231	-0.6425	-15.0742	75.1045	19.6338	-0.0725	-0.3992
Story1	10	115	B232	-0.6028	-15.2943	75.317	20.097	-0.0008	-0.5073
Story1	10	115	B233	-0.7087	-16.8757	82.5773	21.9453	-0.0812	-0.4311
Story1	10	115	B234	-0.669	-17.0958	82.7898	22.4085	-0.0095	-0.5392
Story1	10	115	B235POS	-0.6425	-15.0742	75.1045	19.6338	-0.0725	-0.3992
Story1	10	115	B235NEG	-0.6425	-15.0742	75.1045	19.6338	-0.0725	-0.3992
Story1	10	115	B236X Max	15.1287	-8.4052	82.0423	33.0996	29.7124	1.6906
Story1	10	115	B236X Min	-16.4136	-21.7431	68.1667	6.1681	-29.8575	-2.4891
Story1	10	115	B236Y Max	0.3145	-1.0237	84.2889	48.1334	1.7187	0.2975
Story1	10	115	B236Y Min	-1.5995	-29.1246	65.9201	-8.8657	-1.8637	-1.096
Story1	10	115	B237POS	-0.6624	-16.5904	80.8685	21.7148	-0.0252	-0.5042
Story1	10	115	B238X Max	11.166	-11.5887	86.0718	31.8141	22.3135	1.0631
Story1	10	115	B238X Min	-12.4907	-21.5921	75.6651	11.6155	-22.3639	-2.0716
Story1	10	115	B238Y Max	0.0554	-6.0525	87.7567	43.0895	1.3182	0.0183
Story1	10	115	B238Y Min	-1.3802	-27.1283	73.9802	0.3402	-1.3686	-1.0268
Story1	10	115	B239POS	-0.3855	-9.0445	45.0627	11.7803	-0.0435	-0.2395
Story1	10	115	B23-10X Max	15.3857	-2.3756	52.0005	25.2461	29.7414	1.8503
Story1	10	115	B23-10X Min	-16.1566	-15.7134	38.1249	-1.6855	-29.8284	-2.3294
Story1	10	115	B23-10Y Max	0.5715	5.006	54.2471	40.2798	1.7477	0.4572
Story1	10	115	B23-10Y Min	-1.3425	-23.095	35.8783	-16.7192	-1.8347	-0.9363
Story1	10	115	B237NEG	-0.6624	-16.5904	80.8685	21.7148	-0.0252	-0.5042
Story1	10	115	B239NEG	-0.3855	-9.0445	45.0627	11.7803	-0.0435	-0.2395
Story1	10	115	VB244NEG	-0.7644	-19.2099	94.0743	25.1795	-0.0196	-0.6031
Story1	10	115	VB246NEG	-0.8462	-17.3335	70.4823	25.5478	-0.5673	-1.3582
Story1	10	115	CB246NEG	-0.5782	-13.5667	67.594	17.6704	-0.0653	-0.3593
Story1	10	115	C1	-1.028	-24.1187	120.1672	31.4141	-0.116	-0.6387
Story1	10	115	C2	-0.9446	-24.5406	118.2113	32.2043	0.0057	-0.7969
Story1	10	115	C3	-0.9229	-21.429	91.0075	30.469	-0.397	-1.3975

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	10	115	C4	-0.7959	-16.6272	69.9407	24.0708	-0.4732	-1.1709
Story1	11	116	DEAD	6.4987	-3.1771	66.1259	5.7213	8.4186	0.9695
Story1	11	116	LR	0.6929	-0.2688	5.5005	0.4416	0.8939	0.1458
Story1	11	116	LIVE	0.0105	-0.7113	-0.3071	1.4611	0.0372	-0.0873
Story1	11	116	1/RX Max	22.178	16.0027	11.7602	32.0317	42.1098	3.4957
Story1	11	116	1/RX Min	-22.178	-16.0027	-11.7602	-32.0317	-42.1098	-3.4957
Story1	11	116	1/RY Max	1.246	24.3518	17.4265	48.961	2.4088	2.0481
Story1	11	116	1/RY Min	-1.246	-24.3518	-17.4265	-48.961	-2.4088	-2.0481
Story1	11	116	1OMEG/RX Max	66.5341	48.0081	35.2805	96.0952	126.3293	10.4872
Story1	11	116	1OMEG/RX Min	-66.5341	-48.0081	-35.2805	-96.0952	-126.3293	-10.4872
Story1	11	116	1OMEG/RY Max	3.7379	73.0554	52.2796	146.8831	7.2264	6.1444
Story1	11	116	1OMEG/RY Min	-3.7379	-73.0554	-52.2796	-146.8831	-7.2264	-6.1444
Story1	11	116	VB241	9.0982	-4.4479	92.5763	8.0098	11.786	1.3573
Story1	11	116	VB242	7.8356	-14.7871	78.029	29.3411	10.039	-0.1775
Story1	11	116	VB243	8.9177	-4.9539	87.8448	9.0331	11.5698	1.3094
Story1	11	116	VB244POS	8.1554	-4.6582	81.7942	8.5474	10.5865	1.149
Story1	11	116	VB245X Max	29.987	11.4789	90.8041	40.3583	52.2493	4.5718
Story1	11	116	VB245X Min	-14.3691	-20.5265	67.2838	-23.7051	-31.9703	-2.4196
Story1	11	116	VB245Y Max	9.0549	19.828	96.4705	57.2876	12.5483	3.1242
Story1	11	116	VB245Y Min	6.563	-28.8756	61.6174	-40.6344	7.7307	-0.972
Story1	11	116	VB246POS	5.8489	-2.8594	59.5133	5.1491	7.5767	0.8725
Story1	11	116	VB247X Max	27.7008	3.4412	67.6925	57.0979	49.1168	3.0942
Story1	11	116	VB247X Min	-16.6553	-28.5642	44.1722	-6.9656	-35.1028	-3.8973
Story1	11	116	VB247Y Max	6.7687	11.7903	73.3589	74.0272	9.4158	1.6466
Story1	11	116	VB247Y Min	4.2768	-36.9133	38.5058	-23.8949	4.5982	-2.4497
Story1	11	116	VB245CORTX Max	52.1651	27.4816	102.5643	72.3901	94.3591	8.0676
Story1	11	116	VB245CORTX Min	-36.5471	-36.5292	55.5236	-55.7369	-74.0801	-5.9154
Story1	11	116	VB245CORTY Max	10.3009	44.1798	113.8971	106.2487	14.9571	5.1724
Story1	11	116	VB245CORTY Min	5.3171	-53.2274	44.1909	-89.5955	5.3219	-3.0202
Story1	11	116	VB247CORTX Max	49.8789	19.4439	79.4527	89.1297	91.2266	6.5899
Story1	11	116	VB247CORTX Min	-38.8333	-44.5669	32.4121	-38.9973	-77.2125	-7.393
Story1	11	116	VB247CORTY Max	8.0147	36.1421	90.7855	122.9883	11.8246	3.6947
Story1	11	116	VB247CORTY Min	3.0308	-61.2651	21.0793	-72.8559	2.1894	-4.4978
Story1	11	116	CB241	9.0982	-4.4479	92.5763	8.0098	11.786	1.3573
Story1	11	116	CB242	7.8356	-14.7871	78.029	29.3411	10.039	-0.1775
Story1	11	116	CB243	8.9177	-4.9539	87.8448	9.0331	11.5698	1.3094
Story1	11	116	CB244	8.1554	-4.6582	81.7942	8.5474	10.5865	1.149
Story1	11	116	CB245VX Max	30.3608	18.7845	96.0321	55.0467	52.9719	5.1863
Story1	11	116	CB245VX Min	-14.7429	-27.832	62.0558	-38.3935	-32.6929	-3.0341
Story1	11	116	CB245VY Max	15.7083	24.6288	99.9985	66.8972	25.1812	4.1729
Story1	11	116	CB245VY Min	-0.0904	-33.6764	58.0894	-50.244	-4.9022	-2.0208
Story1	11	116	CB246POS	5.5228	-12.5615	55.9324	25.0662	7.007	-0.4015
Story1	11	116	CB247VX Max	28.0746	10.7467	72.9205	71.7862	49.8394	3.7086
Story1	11	116	CB247VX Min	-17.0291	-35.8698	38.9442	-21.6539	-35.8254	-4.5117
Story1	11	116	CB247VY Max	13.4221	16.5911	76.887	83.6367	22.0487	2.6953

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	11	116	CB247VY Min	-2.3766	-41.7141	34.9778	-33.5044	-8.0347	-3.4984
Story1	11	116	CB245VCORTX Max	75.4645	65.4009	130.0083	148.4868	138.6367	13.4066
Story1	11	116	CB245VCORTX Min	-59.8465	-74.4485	28.0796	-131.8336	-118.3577	-11.2544
Story1	11	116	CB245VCORTY Max	31.5071	82.9341	141.9077	184.0383	55.2647	10.3666
Story1	11	116	CB245VCORTY Min	-15.8891	-91.9816	16.1802	-167.3851	-34.9857	-8.2145
Story1	11	116	CB247VCORTX Max	73.1783	57.3632	106.8967	165.2264	135.5043	11.929
Story1	11	116	CB247VCORTX Min	-62.1327	-82.4862	4.968	-115.094	-121.4902	-12.7321
Story1	11	116	CB247VCORTY Max	29.2209	74.8963	118.7962	200.7779	52.1322	8.889
Story1	11	116	CB247VCORTY Min	-18.1754	-100.0194	-6.9314	-150.6455	-38.1181	-9.6921
Story1	11	116	B231	6.4987	-3.1771	66.1259	5.7213	8.4186	0.9695
Story1	11	116	B232	6.5092	-3.8884	65.8188	7.1823	8.4558	0.8822
Story1	11	116	B233	7.1917	-3.4459	71.6264	6.1628	9.3125	1.1153
Story1	11	116	B234	7.2022	-4.1572	71.3193	7.6239	9.3497	1.028
Story1	11	116	B235POS	6.4987	-3.1771	66.1259	5.7213	8.4186	0.9695
Story1	11	116	B235NEG	6.4987	-3.1771	66.1259	5.7213	8.4186	0.9695
Story1	11	116	B236X Max	22.0234	8.0248	74.358	28.1435	37.8954	3.4165
Story1	11	116	B236X Min	-9.0259	-14.379	57.8938	-16.701	-21.0582	-1.4775
Story1	11	116	B236Y Max	7.3709	13.8692	78.3245	39.994	10.1047	2.4032
Story1	11	116	B236Y Min	5.6266	-20.2234	53.9273	-28.5515	6.7325	-0.4642
Story1	11	116	B237POS	7.0263	-3.9122	70.021	7.1483	9.1169	1.0134
Story1	11	116	B238X Max	18.6698	4.4893	76.195	23.9649	31.2246	2.8486
Story1	11	116	B238X Min	-4.6172	-12.3136	63.8469	-9.6684	-12.9907	-0.8219
Story1	11	116	B238Y Max	7.6804	8.8725	79.1699	32.8528	10.3815	2.0886
Story1	11	116	B238Y Min	6.3722	-16.6969	60.872	-18.5563	7.8523	-0.0619
Story1	11	116	B239POS	3.8992	-1.9063	39.6755	3.4328	5.0512	0.5817
Story1	11	116	B23-10X Max	19.4239	9.2956	47.9077	25.855	34.528	3.0287
Story1	11	116	B23-10X Min	-11.6254	-13.1081	31.4434	-18.9895	-24.4257	-1.8653
Story1	11	116	B23-10Y Max	4.7714	15.14	51.8741	37.7055	6.7373	2.0154
Story1	11	116	B23-10Y Min	3.0271	-18.9525	27.477	-30.84	3.365	-0.852
Story1	11	116	B237NEG	7.0263	-3.9122	70.021	7.1483	9.1169	1.0134
Story1	11	116	B239NEG	3.8992	-1.9063	39.6755	3.4328	5.0512	0.5817
Story1	11	116	VB244NEG	8.1554	-4.6582	81.7942	8.5474	10.5865	1.149
Story1	11	116	VB246NEG	5.5228	-12.5615	55.9324	25.0662	7.007	-0.4015
Story1	11	116	CB246NEG	5.8489	-2.8594	59.5133	5.1491	7.5767	0.8725
Story1	11	116	C1	10.398	-5.0833	105.8015	9.154	13.4698	1.5512
Story1	11	116	C2	10.2941	-6.1141	101.405	11.2443	13.3689	1.4567
Story1	11	116	C3	7.4632	-12.3522	73.215	24.3764	9.5756	0.0736
Story1	11	116	C4	5.5839	-10.7424	56.6038	21.3317	7.1138	-0.1627
Story1	12	30	DEAD	-8.4446	-2.0443	71.2393	2.7613	-9.2566	-1.0149
Story1	12	30	LR	-0.8688	-0.1181	3.9424	0.1131	-0.9525	-0.1406
Story1	12	30	LIVE	0.0386	-0.3066	0.3868	0.6269	0.0707	0.0378
Story1	12	30	1/RX Max	16.7889	29.6659	7.5107	56.3754	35.7144	1.2752
Story1	12	30	1/RX Min	-16.7889	-29.6659	-7.5107	-56.3754	-35.7144	-1.2752
Story1	12	30	1/RY Max	0.9512	29.7791	2.1282	56.5883	2.0613	0.988
Story1	12	30	1/RY Min	-0.9512	-29.7791	-2.1282	-56.5883	-2.0613	-0.988

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	12	30	1OMEG/RX Max	50.3666	88.9976	22.5322	169.1263	107.1433	3.8255
Story1	12	30	1OMEG/RX Min	-50.3666	-88.9976	-22.5322	-169.1263	-107.1433	-3.8255
Story1	12	30	1OMEG/RY Max	2.8536	89.3372	6.3846	169.7648	6.1839	2.9639
Story1	12	30	1OMEG/RY Min	-2.8536	-89.3372	-6.3846	-169.7648	-6.1839	-2.9639
Story1	12	30	VB241	-11.8224	-2.8621	99.735	3.8658	-12.9592	-1.4209
Story1	12	30	VB242	-10.6748	-14.349	92.2462	26.3174	-11.8469	-0.8991
Story1	12	30	VB243	-11.485	-2.9488	92.1819	4.1215	-12.5612	-1.4051
Story1	12	30	VB244POS	-10.5293	-2.8189	87.8452	3.997	-11.5135	-1.2504
Story1	12	30	VB245X Max	6.694	26.906	93.3847	60.3159	24.6772	0.0951
Story1	12	30	VB245X Min	-26.8837	-32.4257	78.3633	-52.435	-46.7517	-2.4553
Story1	12	30	VB245Y Max	-9.1437	27.0192	88.0022	60.5287	-8.976	-0.1921
Story1	12	30	VB245Y Min	-11.0461	-32.5389	83.7458	-52.6478	-13.0985	-2.1681
Story1	12	30	VB246POS	-7.6001	-1.8399	64.1154	2.4852	-8.3309	-0.9134
Story1	12	30	VB247X Max	9.0201	16.4798	75.795	80.8048	27.0077	0.6905
Story1	12	30	VB247X Min	-24.5576	-42.8519	60.7735	-31.9461	-44.4211	-1.8599
Story1	12	30	VB247Y Max	-6.8175	16.593	70.4124	81.0176	-6.6454	0.4033
Story1	12	30	VB247Y Min	-8.7199	-42.9651	66.1561	-32.1589	-10.768	-1.5727
Story1	12	30	VB245CORTX Max	23.4828	56.5719	100.8954	116.6913	60.3916	1.3703
Story1	12	30	VB245CORTX Min	-43.6726	-62.0916	70.8525	-108.8104	-82.4661	-3.7305
Story1	12	30	VB245CORTY Max	-8.1925	56.7983	90.1304	117.117	-6.9147	0.7959
Story1	12	30	VB245CORTY Min	-11.9973	-62.3179	81.6176	-109.2361	-15.1598	-3.1561
Story1	12	30	VB247CORTX Max	25.809	46.1457	83.3057	137.1802	62.7222	1.9656
Story1	12	30	VB247CORTX Min	-41.3464	-72.5178	53.2628	-88.3215	-80.1356	-3.1351
Story1	12	30	VB247CORTY Max	-5.8663	46.3721	72.5406	137.6059	-4.5841	1.3912
Story1	12	30	VB247CORTY Min	-9.6711	-72.7441	64.0279	-88.7471	-12.8293	-2.5607
Story1	12	30	CB241	-11.8224	-2.8621	99.735	3.8658	-12.9592	-1.4209
Story1	12	30	CB242	-10.6748	-14.349	92.2462	26.3174	-11.8469	-0.8991
Story1	12	30	CB243	-11.485	-2.9488	92.1819	4.1215	-12.5612	-1.4051
Story1	12	30	CB244	-10.5293	-2.8189	87.8452	3.997	-11.5135	-1.2504
Story1	12	30	CB245VX Max	6.9793	35.8398	94.0232	77.2924	25.2956	0.3915
Story1	12	30	CB245VX Min	-27.1691	-41.3594	77.7248	-69.4115	-47.3701	-2.7517
Story1	12	30	CB245VY Max	-4.107	35.919	90.2554	77.4413	1.7384	0.1904
Story1	12	30	CB245VY Min	-16.0827	-41.4386	81.4926	-69.5604	-23.8129	-2.5506
Story1	12	30	CB246POS	-7.7687	-13.186	68.2843	24.4294	-8.7067	-0.5847
Story1	12	30	CB247VX Max	9.3055	25.4136	76.4334	97.7813	27.6261	0.9868
Story1	12	30	CB247VX Min	-24.843	-51.7856	60.1351	-48.9225	-45.0395	-2.1563
Story1	12	30	CB247VY Max	-1.7809	25.4928	72.6657	97.9303	4.0689	0.7858
Story1	12	30	CB247VY Min	-13.7566	-51.8648	63.9029	-49.0715	-21.4823	-1.9553
Story1	12	30	CB245VCORTX Max	41.1278	113.0389	110.3215	223.9962	97.9612	3.5346
Story1	12	30	CB245VCORTX Min	-61.3175	-118.5586	61.4264	-216.1153	-120.0357	-5.8948
Story1	12	30	CB245VCORTY Max	7.8687	113.2766	99.0182	224.4431	27.2896	2.9315
Story1	12	30	CB245VCORTY Min	-28.0585	-118.7963	72.7298	-216.5622	-49.3641	-5.2917
Story1	12	30	CB247VCORTX Max	43.4539	102.6127	92.7318	244.4851	100.2918	4.13
Story1	12	30	CB247VCORTX Min	-58.9914	-128.9848	43.8367	-195.6263	-117.7052	-5.2995
Story1	12	30	CB247VCORTY Max	10.1948	102.8504	81.4285	244.932	29.6201	3.5269

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story1	12	30	CB247VCORTY Min	-25.7323	-129.2225	55.14	-196.0733	-47.0336	-4.6963
Story1	12	30	B231	-8.4446	-2.0443	71.2393	2.7613	-9.2566	-1.0149
Story1	12	30	B232	-8.406	-2.351	71.6261	3.3882	-9.1859	-0.9771
Story1	12	30	B233	-9.3134	-2.1624	75.1817	2.8744	-10.2091	-1.1555
Story1	12	30	B234	-9.2748	-2.4691	75.5686	3.5013	-10.1384	-1.1178
Story1	12	30	B235POS	-8.4446	-2.0443	71.2393	2.7613	-9.2566	-1.0149
Story1	12	30	B235NEG	-8.4446	-2.0443	71.2393	2.7613	-9.2566	-1.0149
Story1	12	30	B236X Max	3.3076	18.7218	76.4968	42.2241	15.7435	-0.1223
Story1	12	30	B236X Min	-20.1968	-22.8105	65.9818	-36.7015	-34.2567	-1.9075
Story1	12	30	B236Y Max	-7.7787	18.801	72.729	42.3731	-7.8137	-0.3233
Story1	12	30	B236Y Min	-9.1104	-22.8897	69.7496	-36.8505	-10.6995	-1.7065
Story1	12	30	B237POS	-9.0673	-2.3629	74.4862	3.3163	-9.9179	-1.0921
Story1	12	30	B238X Max	-0.2531	13.2117	78.4294	32.9134	8.8321	-0.4226
Story1	12	30	B238X Min	-17.8814	-17.9375	70.5431	-26.2808	-28.668	-1.7615
Story1	12	30	B238Y Max	-8.5679	13.2711	75.6035	33.0251	-8.8358	-0.5734
Story1	12	30	B238Y Min	-9.5666	-17.9969	73.3689	-26.3925	-11.0001	-1.6107
Story1	12	30	B239POS	-5.0667	-1.2266	42.7436	1.6568	-5.5539	-0.6089
Story1	12	30	B23-10X Max	6.6855	19.5395	48.0011	41.1196	19.4462	0.2837
Story1	12	30	B23-10X Min	-16.8189	-21.9927	37.4861	-37.806	-30.5541	-1.5016
Story1	12	30	B23-10Y Max	-4.4009	19.6187	44.2333	41.2686	-4.111	0.0827
Story1	12	30	B23-10Y Min	-5.7326	-22.072	41.2539	-37.955	-6.9968	-1.3005
Story1	12	30	B237NEG	-9.0673	-2.3629	74.4862	3.3163	-9.9179	-1.0921
Story1	12	30	B239NEG	-5.0667	-1.2266	42.7436	1.6568	-5.5539	-0.6089
Story1	12	30	VB244NEG	-10.5293	-2.8189	87.8452	3.997	-11.5135	-1.2504
Story1	12	30	VB246NEG	-7.7687	-13.186	68.2843	24.4294	-8.7067	-0.5847
Story1	12	30	CB246NEG	-7.6001	-1.8399	64.1154	2.4852	-8.3309	-0.9134
Story1	12	30	C1	-13.5113	-3.271	113.9829	4.4181	-14.8105	-1.6238
Story1	12	30	C2	-13.2338	-3.5841	107.0948	5.1239	-14.4583	-1.5958
Story1	12	30	C3	-10.0644	-11.7671	83.6778	21.402	-11.1488	-0.9344
Story1	12	30	C4	-7.7371	-11.0586	67.5026	20.3148	-8.6362	-0.6464
Base	13	31	DEAD	5.9899	11.1848	232.0559	-9.7294	-3.3168	-0.2001
Base	13	31	LR	-0.0866	0.0178	7.2212	-0.0236	-0.4111	0.0009
Base	13	31	LIVE	1.2113	7.0715	38.563	-6.3505	0.7514	-0.1073
Base	13	31	1/RX Max	62.4542	62.5099	106.3765	119.6598	14.1545	4.377
Base	13	31	1/RX Min	-62.4542	-62.5099	-106.3765	-119.6598	-14.1545	-4.377
Base	13	31	1/RY Max	9.0367	48.2834	21.3428	102.4307	2.8244	4.471
Base	13	31	1/RY Min	-9.0367	-48.2834	-21.3428	-102.4307	-2.8244	-4.471
Base	13	31	1OMEG/RX Max	187.3627	187.5297	319.1294	358.9795	42.4636	13.131
Base	13	31	1OMEG/RX Min	-187.3627	-187.5297	-319.1294	-358.9795	-42.4636	-13.131
Base	13	31	1OMEG/RY Max	27.11	144.8502	64.0285	307.2921	8.4731	13.4129
Base	13	31	1OMEG/RY Min	-27.11	-144.8502	-64.0285	-307.2921	-8.4731	-13.4129
Base	13	31	VB241	8.3859	15.6587	324.8783	-13.6211	-4.6435	-0.2801
Base	13	31	VB242	7.6283	-146.5106	327.6019	81.7243	-2.6716	-4.9564
Base	13	31	VB243	8.2607	20.5217	328.584	-18.0635	-3.8865	-0.346
Base	13	31	VB244POS	8.3559	20.5021	320.6407	-18.0376	-3.4343	-0.347

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	13	31	VB245X Max	70.8534	83.0031	423.4065	101.634	10.9258	4.0296
Base	13	31	VB245X Min	-54.055	-42.0167	210.6536	-137.6856	-17.3833	-4.7244
Base	13	31	VB245Y Max	17.4359	68.7766	338.3729	84.4049	-0.4044	4.1235
Base	13	31	VB245Y Min	-0.6374	-27.7902	295.6872	-120.4565	-6.0531	-4.8184
Base	13	31	VB246POS	5.3909	10.0663	208.8503	-8.7564	-2.9851	-0.1801
Base	13	31	VB247X Max	66.3907	-98.6794	299.0502	214.4756	11.4814	-0.3481
Base	13	31	VB247X Min	-58.5177	-223.6992	86.2973	-24.8441	-16.8277	-9.1021
Base	13	31	VB247Y Max	12.9732	-112.9059	214.0166	197.2465	0.1512	-0.2541
Base	13	31	VB247Y Min	-5.1001	-209.4727	171.3309	-7.6149	-5.4975	-9.196
Base	13	31	VB245CORTX Max	133.3077	145.5131	529.783	221.2939	25.0803	8.4066
Base	13	31	VB245CORTX Min	-116.5092	-104.5266	104.2771	-257.3455	-31.5378	-9.1014
Base	13	31	VB245CORTY Max	26.4725	117.06	359.7157	186.8356	2.42	8.5945
Base	13	31	VB245CORTY Min	-9.6741	-76.0736	274.3444	-222.8872	-8.8775	-9.2893
Base	13	31	VB247CORTX Max	128.845	-36.1694	405.4266	334.1355	25.6359	4.0289
Base	13	31	VB247CORTX Min	-120.9719	-286.2091	-20.0792	-144.5039	-30.9822	-13.4791
Base	13	31	VB247CORTY Max	22.0098	-64.6225	235.3594	299.6771	2.9756	4.2168
Base	13	31	VB247CORTY Min	-14.1368	-257.7561	149.9881	-110.0456	-8.3219	-13.667
Base	13	31	CB241	8.3859	15.6587	324.8783	-13.6211	-4.6435	-0.2801
Base	13	31	CB242	7.6283	-146.5106	327.6019	81.7243	-2.6716	-4.9564
Base	13	31	CB243	8.2607	20.5217	328.584	-18.0635	-3.8865	-0.346
Base	13	31	CB244	8.3559	20.5021	320.6407	-18.0376	-3.4343	-0.347
Base	13	31	CB245VX Max	73.5644	97.4882	429.8094	132.3633	11.7731	5.3709
Base	13	31	CB245VX Min	-56.766	-56.5017	204.2507	-168.4148	-18.2306	-6.0657
Base	13	31	CB245VY Max	36.1721	87.5296	370.2858	120.3028	3.842	5.4366
Base	13	31	CB245VY Min	-19.3737	-46.5431	263.7743	-156.3544	-10.2995	-6.1315
Base	13	31	CB246POS	3.9365	-161.1893	192.6737	94.8158	-2.6732	-4.7251
Base	13	31	CB247VX Max	69.1017	-84.1943	305.453	245.2048	12.3287	0.9932
Base	13	31	CB247VX Min	-61.2287	-238.1842	79.8944	-55.5733	-17.675	-10.4434
Base	13	31	CB247VY Max	31.7094	-94.1529	245.9295	233.1444	4.3976	1.059
Base	13	31	CB247VY Min	-23.8364	-228.2256	139.418	-43.5129	-9.7439	-10.5091
Base	13	31	CB245VCORTX Max	203.8949	251.478	655.368	433.1413	41.7768	16.8075
Base	13	31	CB245VCORTX Min	-187.0964	-210.4916	-21.3079	-469.1929	-48.2343	-17.5023
Base	13	31	CB245VCORTY Max	91.718	221.6024	476.7974	396.9601	17.9835	17.0047
Base	13	31	CB245VCORTY Min	-74.9195	-180.6159	157.2627	-433.0117	-24.441	-17.6996
Base	13	31	CB247VCORTX Max	199.4322	69.7955	531.0116	545.9829	42.3324	12.4298
Base	13	31	CB247VCORTX Min	-191.5592	-392.1741	-145.6642	-356.3514	-47.6787	-21.88
Base	13	31	CB247VCORTY Max	87.2553	39.9199	352.4411	509.8017	18.5391	12.6271
Base	13	31	CB247VCORTY Min	-79.3823	-362.2984	32.9064	-320.1701	-23.8854	-22.0773
Base	13	31	B231	5.9899	11.1848	232.0559	-9.7294	-3.3168	-0.2001
Base	13	31	B232	7.2012	18.2563	270.6189	-16.0799	-2.5654	-0.3074
Base	13	31	B233	5.9034	11.2026	239.2771	-9.753	-3.7278	-0.1992
Base	13	31	B234	7.1147	18.274	277.8401	-16.1035	-2.9765	-0.3065
Base	13	31	B235POS	5.9899	11.1848	232.0559	-9.7294	-3.3168	-0.2001
Base	13	31	B235NEG	5.9899	11.1848	232.0559	-9.7294	-3.3168	-0.2001
Base	13	31	B236X Max	49.7079	54.9417	306.5194	74.0325	6.5914	2.8638

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	13	31	B236X Min	-37.728	-32.5722	157.5924	-93.4913	-13.2249	-3.264
Base	13	31	B236Y Max	12.3156	44.9832	246.9959	61.9721	-1.3397	2.9296
Base	13	31	B236Y Min	-0.3357	-22.6136	217.1159	-81.4309	-5.2938	-3.3298
Base	13	31	B237POS	6.8335	16.5017	266.394	-14.51	-3.0616	-0.2799
Base	13	31	B238X Max	39.622	49.3194	322.2417	48.3114	4.3696	2.018
Base	13	31	B238X Min	-25.955	-16.316	210.5464	-77.3314	-10.4927	-2.5779
Base	13	31	B238Y Max	11.5777	41.8505	277.599	39.2661	-1.5788	2.0673
Base	13	31	B238Y Min	2.0892	-8.8471	255.1891	-68.2861	-4.5444	-2.6272
Base	13	31	B239POS	3.5939	6.7109	139.2335	-5.8376	-1.9901	-0.1201
Base	13	31	B23-10X Max	47.3119	50.4678	213.6971	77.9243	7.9181	2.9438
Base	13	31	B23-10X Min	-40.124	-37.0461	64.77	-89.5995	-11.8982	-3.184
Base	13	31	B23-10Y Max	9.9196	40.5093	154.1735	65.8638	-0.013	3.0096
Base	13	31	B23-10Y Min	-2.7317	-27.0875	124.2936	-77.5391	-3.9671	-3.2497
Base	13	31	B237NEG	6.8335	16.5017	266.394	-14.51	-3.0616	-0.2799
Base	13	31	B239NEG	3.5939	6.7109	139.2335	-5.8376	-1.9901	-0.1201
Base	13	31	VB244NEG	8.3559	20.5021	320.6407	-18.0376	-3.4343	-0.347
Base	13	31	VB246NEG	3.9365	-161.1893	192.6737	94.8158	-2.6732	-4.7251
Base	13	31	CB246NEG	5.3909	10.0663	208.8503	-8.7564	-2.9851	-0.1801
Base	13	31	C1	9.5839	17.8957	371.2894	-15.567	-5.3068	-0.3202
Base	13	31	C2	10.298	27.7104	402.7114	-24.4571	-4.065	-0.4611
Base	13	31	C3	6.5656	-116.1862	289.3212	64.4831	-2.7975	-3.9823
Base	13	31	C4	4.2092	-129.0789	195.7068	75.396	-2.7316	-3.8729
Base	14	33	DEAD	3.2515	7.5905	205.3949	-5.0724	6.5629	0.0215
Base	14	33	LR	0.7159	-0.0152	5.0192	0.0063	0.6158	-0.0002
Base	14	33	LIVE	-1.6984	4.6522	28.2597	-3.3147	1.911	0.0184
Base	14	33	1/RX Max	104.6816	50.5712	24.4791	110.5961	27.6256	1.6997
Base	14	33	1/RX Min	-104.6816	-50.5712	-24.4791	-110.5961	-27.6256	-1.6997
Base	14	33	1/RY Max	15.1367	61.281	22.7859	136.2924	4.2274	0.4878
Base	14	33	1/RY Min	-15.1367	-61.281	-22.7859	-136.2924	-4.2274	-0.4878
Base	14	33	1OMEG/RX Max	314.0449	151.7136	73.4373	331.7882	82.8768	5.099
Base	14	33	1OMEG/RX Min	-314.0449	-151.7136	-73.4373	-331.7882	-82.8768	-5.099
Base	14	33	1OMEG/RY Max	45.41	183.8429	68.3578	408.8772	12.6822	1.4635
Base	14	33	1OMEG/RY Min	-45.41	-183.8429	-68.3578	-408.8772	-12.6822	-1.4635
Base	14	33	VB241	4.5521	10.6268	287.5529	-7.1014	9.1881	0.0301
Base	14	33	VB242	-10.9513	-242.1476	271.2077	132.671	8.4193	-0.1974
Base	14	33	VB243	3.3488	13.7366	282.7643	-9.3915	10.7718	0.0438
Base	14	33	VB244POS	2.5614	13.7533	277.2432	-9.3984	10.0944	0.0441
Base	14	33	VB245X Max	106.8851	64.3321	299.2126	101.1945	37.4121	1.7438
Base	14	33	VB245X Min	-102.4782	-36.8103	250.2545	-119.9977	-17.8391	-1.6555
Base	14	33	VB245Y Max	17.3401	75.0418	297.5195	126.8908	14.0139	0.532
Base	14	33	VB245Y Min	-12.9332	-47.5201	251.9476	-145.694	5.5591	-0.4437
Base	14	33	VB246POS	2.9264	6.8315	184.8554	-4.5652	5.9066	0.0194
Base	14	33	VB247X Max	95.1144	-201.2895	186.3432	250.0891	30.7105	1.4666
Base	14	33	VB247X Min	-114.2489	-302.4319	137.385	28.897	-24.5407	-1.9327
Base	14	33	VB247Y Max	5.5694	-190.5798	184.65	275.7855	7.3123	0.2548

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	14	33	VB247Y Min	-24.7039	-313.1417	139.0782	3.2007	-1.1425	-0.7209
Base	14	33	VB245CORTX Max	211.5667	114.9033	323.6917	211.7905	65.0377	3.4435
Base	14	33	VB245CORTX Min	-207.1598	-87.3816	225.7754	-230.5938	-45.4647	-3.3551
Base	14	33	VB245CORTY Max	32.4768	136.3228	320.3054	263.1832	18.2413	1.0199
Base	14	33	VB245CORTY Min	-28.0699	-108.801	229.1617	-281.9864	1.3317	-0.9315
Base	14	33	VB247CORTX Max	199.796	-150.7183	210.8223	360.6852	58.3361	3.1662
Base	14	33	VB247CORTX Min	-218.9305	-353.0031	112.9059	-81.6991	-52.1663	-3.6324
Base	14	33	VB247CORTY Max	20.7061	-129.2988	207.436	412.0779	11.5397	0.7426
Base	14	33	VB247CORTY Min	-39.8406	-374.4226	116.2922	-133.0918	-5.3699	-1.2088
Base	14	33	CB241	4.5521	10.6268	287.5529	-7.1014	9.1881	0.0301
Base	14	33	CB242	-10.9513	-242.1476	271.2077	132.671	8.4193	-0.1974
Base	14	33	CB243	3.3488	13.7366	282.7643	-9.3915	10.7718	0.0438
Base	14	33	CB244	2.5614	13.7533	277.2432	-9.3984	10.0944	0.0441
Base	14	33	CB245VX Max	111.4261	82.7164	306.0484	142.0822	38.6804	1.8902
Base	14	33	CB245VX Min	-107.0192	-55.1946	243.4187	-160.8854	-19.1073	-1.8018
Base	14	33	CB245VY Max	48.7446	90.2132	304.8632	160.0696	22.3016	1.0419
Base	14	33	CB245VY Min	-44.3377	-62.6914	244.6039	-178.8729	-2.7285	-0.9536
Base	14	33	CB246POS	-9.5672	-251.8607	161.8641	139.4931	3.0849	-0.2331
Base	14	33	CB247VX Max	99.6554	-182.9052	193.179	290.9769	31.9787	1.6129
Base	14	33	CB247VX Min	-118.7899	-320.8162	130.5492	-11.9907	-25.8089	-2.0791
Base	14	33	CB247VY Max	36.9739	-175.4084	191.9938	308.9643	15.6	0.7647
Base	14	33	CB247VY Min	-56.1084	-328.313	131.7344	-29.9782	-9.4302	-1.2308
Base	14	33	CB245VCORTX Max	329.8713	220.6274	368.6782	445.0498	96.468	5.5822
Base	14	33	CB245VCORTX Min	-325.4645	-193.1056	180.7889	-463.853	-76.8949	-5.4939
Base	14	33	CB245VCORTY Max	141.8269	243.1179	365.1225	499.0121	47.3318	3.0374
Base	14	33	CB245VCORTY Min	-137.4201	-215.5961	184.3446	-517.8153	-27.7587	-2.9491
Base	14	33	CB247VCORTX Max	318.1007	-44.9942	255.8087	593.9445	89.7664	5.305
Base	14	33	CB247VCORTX Min	-337.2351	-458.7272	67.9195	-314.9584	-83.5966	-5.7711
Base	14	33	CB247VCORTY Max	130.0562	-22.5037	252.2531	647.9068	40.6302	2.7602
Base	14	33	CB247VCORTY Min	-149.1907	-481.2177	71.4751	-368.9206	-34.4603	-3.2263
Base	14	33	B231	3.2515	7.5905	205.3949	-5.0724	6.5629	0.0215
Base	14	33	B232	1.5531	12.2428	233.6546	-8.3871	8.474	0.0399
Base	14	33	B233	3.9674	7.5754	210.4141	-5.0661	7.1787	0.0213
Base	14	33	B234	2.269	12.2276	238.6738	-8.3808	9.0898	0.0396
Base	14	33	B235POS	3.2515	7.5905	205.3949	-5.0724	6.5629	0.0215
Base	14	33	B235NEG	3.2515	7.5905	205.3949	-5.0724	6.5629	0.0215
Base	14	33	B236X Max	76.5287	42.9904	222.5303	72.3448	25.9009	1.2113
Base	14	33	B236X Min	-70.0256	-27.8093	188.2595	-82.4897	-12.775	-1.1682
Base	14	33	B236Y Max	13.8472	50.4872	221.345	90.3322	9.5221	0.363
Base	14	33	B236Y Min	-7.3442	-35.3061	189.4447	-100.4771	3.6037	-0.32
Base	14	33	B237POS	2.5146	11.0683	230.3541	-7.5537	8.4581	0.0351
Base	14	33	B238X Max	57.4725	37.6182	243.2056	50.5092	22.9615	0.9274
Base	14	33	B238X Min	-52.4432	-15.4815	217.5026	-65.6166	-6.0454	-0.8572
Base	14	33	B238Y Max	10.4614	43.2408	242.3167	63.9998	10.6774	0.2912
Base	14	33	B238Y Min	-5.4321	-21.1042	218.3915	-79.1072	6.2387	-0.221

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	14	33	B239POS	1.9509	4.5543	123.2369	-3.0435	3.9378	0.0129
Base	14	33	B23-10X Max	75.228	39.9542	140.3723	74.3738	23.2757	1.2027
Base	14	33	B23-10X Min	-71.3262	-30.8455	106.1016	-80.4607	-15.4002	-1.1769
Base	14	33	B23-10Y Max	12.5466	47.451	139.1871	92.3612	6.8969	0.3544
Base	14	33	B23-10Y Min	-8.6448	-38.3423	107.2868	-98.4482	0.9786	-0.3286
Base	14	33	B237NEG	2.5146	11.0683	230.3541	-7.5537	8.4581	0.0351
Base	14	33	B239NEG	1.9509	4.5543	123.2369	-3.0435	3.9378	0.0129
Base	14	33	VB244NEG	2.5614	13.7533	277.2432	-9.3984	10.0944	0.0441
Base	14	33	VB246NEG	-9.5672	-251.8607	161.8641	139.4931	3.0849	-0.2331
Base	14	33	CB246NEG	2.9264	6.8315	184.8554	-4.5652	5.9066	0.0194
Base	14	33	C1	5.2024	12.1449	328.6318	-8.1159	10.5007	0.0344
Base	14	33	C2	2.8818	18.5098	344.127	-12.7256	13.4837	0.0609
Base	14	33	C3	-7.8384	-193.0482	239.8686	105.6859	7.8681	-0.1562
Base	14	33	C4	-7.2247	-203.3559	166.175	112.4821	3.614	-0.1857
Base	15	35	DEAD	-2.2719	2.3257	121.6604	0.3036	-2.1811	-0.0074
Base	15	35	LR	-0.4557	-0.051	1.8773	0.0445	-0.1874	-0.0007
Base	15	35	LIVE	-1.3784	1.3922	9.5113	0.0655	-1.367	-0.0038
Base	15	35	1/RX Max	100.2803	25.0862	21.7028	54.1137	27.726	1.6927
Base	15	35	1/RX Min	-100.2803	-25.0862	-21.7028	-54.1137	-27.726	-1.6927
Base	15	35	1/RY Max	14.9355	54.6052	29.8236	119.3621	6.3155	0.426
Base	15	35	1/RY Min	-14.9355	-54.6052	-29.8236	-119.3621	-6.3155	-0.426
Base	15	35	1OMEG/RX Max	300.841	75.2585	65.1084	162.341	83.1781	5.0782
Base	15	35	1OMEG/RX Min	-300.841	-75.2585	-65.1084	-162.341	-83.1781	-5.0782
Base	15	35	1OMEG/RY Max	44.8065	163.8157	89.4707	358.0864	18.9466	1.2779
Base	15	35	1OMEG/RY Min	-44.8065	-163.8157	-89.4707	-358.0864	-18.9466	-1.2779
Base	15	35	VB241	-3.1807	3.256	170.3245	0.4251	-3.0536	-0.0103
Base	15	35	VB242	3.0396	-215.9943	144.6704	125.7506	-5.4464	0.0589
Base	15	35	VB243	-4.8338	4.1014	158.5075	0.5011	-4.2841	-0.0138
Base	15	35	VB244POS	-4.3325	4.1575	156.4424	0.4521	-4.078	-0.013
Base	15	35	VB245X Max	96.1756	29.2692	177.2065	54.5435	23.7417	1.6801
Base	15	35	VB245X Min	-104.385	-20.9031	133.801	-53.6838	-31.7104	-1.7053
Base	15	35	VB245Y Max	10.8308	58.7883	185.3273	119.792	2.3312	0.4134
Base	15	35	VB245Y Min	-19.0402	-50.4222	125.6802	-118.9323	-10.2999	-0.4386
Base	15	35	VB246POS	-2.0448	2.0932	109.4943	0.2733	-1.963	-0.0066
Base	15	35	VB247X Max	106.4347	-193.8078	113.7183	179.6461	25.2149	1.7602
Base	15	35	VB247X Min	-94.1259	-243.9801	70.3127	71.4188	-30.2372	-1.6252
Base	15	35	VB247Y Max	21.0899	-164.2888	121.8391	244.8946	3.8044	0.4935
Base	15	35	VB247Y Min	-8.7811	-273.4992	62.192	6.1703	-8.8267	-0.3585
Base	15	35	VB245CORTX Max	196.4559	54.3554	198.9093	108.6572	51.4677	3.3728
Base	15	35	VB245CORTX Min	-204.6654	-45.9893	112.0982	-107.7975	-59.4364	-3.398
Base	15	35	VB245CORTY Max	25.7663	113.3935	215.1509	239.1541	8.6468	0.8393
Base	15	35	VB245CORTY Min	-33.9757	-105.0274	95.8566	-238.2945	-16.6154	-0.8646
Base	15	35	VB247CORTX Max	206.715	-168.7217	135.4211	233.7598	52.9409	3.4529
Base	15	35	VB247CORTX Min	-194.4063	-269.0663	48.61	17.3051	-57.9632	-3.3179
Base	15	35	VB247CORTY Max	36.0254	-109.6835	151.6627	364.2567	10.1199	0.9195

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	15	35	VB247CORTY Min	-23.7166	-328.1044	32.3684	-113.1918	-15.1423	-0.7844
Base	15	35	CB241	-3.1807	3.256	170.3245	0.4251	-3.0536	-0.0103
Base	15	35	CB242	3.0396	-215.9943	144.6704	125.7506	-5.4464	0.0589
Base	15	35	CB243	-4.8338	4.1014	158.5075	0.5011	-4.2841	-0.0138
Base	15	35	CB244	-4.3325	4.1575	156.4424	0.4521	-4.078	-0.013
Base	15	35	CB245VX Max	100.6563	45.6508	186.1536	90.3521	25.6363	1.8079
Base	15	35	CB245VX Min	-108.8657	-37.2847	124.8539	-89.4925	-33.605	-1.8331
Base	15	35	CB245VY Max	40.9149	66.3141	191.8382	136.0261	10.649	0.9212
Base	15	35	CB245VY Min	-49.1243	-57.948	119.1694	-135.1664	-18.6177	-0.9464
Base	15	35	CB246POS	6.1544	-218.894	92.0155	125.5325	-2.5112	0.0675
Base	15	35	CB247VX Max	110.9154	-177.4263	122.6654	215.4548	27.1095	1.888
Base	15	35	CB247VX Min	-98.6066	-260.3617	61.3657	35.6102	-32.1319	-1.753
Base	15	35	CB247VY Max	51.174	-156.7629	128.3499	261.1287	12.1222	1.0013
Base	15	35	CB247VY Min	-38.8652	-281.0251	55.6811	-10.0638	-17.1445	-0.8663
Base	15	35	CB245VCORTX Max	310.1782	128.5862	247.4533	270.1968	84.8777	5.4489
Base	15	35	CB245VCORTX Min	-318.3876	-120.2201	63.5542	-269.3371	-92.8464	-5.4741
Base	15	35	CB245VCORTY Max	130.9541	190.5763	264.507	407.2186	39.9157	2.7887
Base	15	35	CB245VCORTY Min	-139.1635	-182.2102	46.5005	-406.3589	-47.8844	-2.814
Base	15	35	CB247VCORTX Max	320.4373	-94.4908	183.9651	395.2994	86.3509	5.529
Base	15	35	CB247VCORTX Min	-308.1285	-343.2972	0.066	-144.2345	-91.3732	-5.394
Base	15	35	CB247VCORTY Max	141.2132	-32.5008	201.0188	532.3212	41.3889	2.8689
Base	15	35	CB247VCORTY Min	-128.9044	-405.2872	-16.9877	-281.2563	-46.4112	-2.7338
Base	15	35	B231	-2.2719	2.3257	121.6604	0.3036	-2.1811	-0.0074
Base	15	35	B232	-3.6503	3.7179	131.1717	0.3691	-3.5481	-0.0111
Base	15	35	B233	-2.7276	2.2747	123.5377	0.3481	-2.3685	-0.0081
Base	15	35	B234	-4.106	3.6669	133.049	0.4136	-3.7355	-0.0119
Base	15	35	B235POS	-2.2719	2.3257	121.6604	0.3036	-2.1811	-0.0074
Base	15	35	B235NEG	-2.2719	2.3257	121.6604	0.3036	-2.1811	-0.0074
Base	15	35	B236X Max	67.9243	19.886	136.8523	38.1832	17.2271	1.1775
Base	15	35	B236X Min	-72.4682	-15.2346	106.4684	-37.5759	-21.5894	-1.1923
Base	15	35	B236Y Max	8.1829	40.5494	142.5369	83.8571	2.2398	0.2908
Base	15	35	B236Y Min	-12.7268	-35.8979	100.7839	-83.2499	-6.602	-0.3056
Base	15	35	B237POS	-3.6475	3.3316	130.2019	0.3861	-3.3469	-0.0107
Base	15	35	B238X Max	48.9997	16.5018	141.5958	28.7958	11.2093	0.8779
Base	15	35	B238X Min	-56.2946	-9.8386	118.8079	-28.0235	-17.9031	-0.8994
Base	15	35	B238Y Max	4.1937	31.9993	145.8592	63.0513	-0.0312	0.2129
Base	15	35	B238Y Min	-11.4886	-25.3362	114.5445	-62.279	-6.6626	-0.2344
Base	15	35	B239POS	-1.3632	1.3954	72.9962	0.1822	-1.3087	-0.0044
Base	15	35	B23-10X Max	68.8331	18.9557	88.1882	38.0617	18.0995	1.1805
Base	15	35	B23-10X Min	-71.5594	-16.1649	57.8043	-37.6974	-20.7169	-1.1893
Base	15	35	B23-10Y Max	9.0917	39.6191	93.8727	83.7357	3.1122	0.2938
Base	15	35	B23-10Y Min	-11.818	-36.8282	52.1197	-83.3713	-5.7296	-0.3026
Base	15	35	B237NEG	-3.6475	3.3316	130.2019	0.3861	-3.3469	-0.0107
Base	15	35	B239NEG	-1.3632	1.3954	72.9962	0.1822	-1.3087	-0.0044
Base	15	35	VB244NEG	-4.3325	4.1575	156.4424	0.4521	-4.078	-0.013

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	15	35	VB246NEG	6.1544	-218.894	92.0155	125.5325	-2.5112	0.0675
Base	15	35	CB246NEG	-2.0448	2.0932	109.4943	0.2733	-1.963	-0.0066
Base	15	35	C1	-3.6351	3.7212	194.6566	0.4858	-3.4898	-0.0118
Base	15	35	C2	-6.2986	5.536	189.6852	0.6121	-5.696	-0.018
Base	15	35	C3	1.8262	-172.631	128.3378	100.667	-4.7183	0.0458
Base	15	35	C4	4.617	-177.4589	95.2928	102.0464	-2.4084	0.0536
Base	16	37	DEAD	11.0333	2.9318	133.7856	-0.5244	2.5332	-0.027
Base	16	37	LR	0.6139	-0.0388	2.2083	0.0264	0.1986	-0.0004
Base	16	37	LIVE	5.3353	1.7598	16.8965	-0.4166	1.1002	-0.0156
Base	16	37	1/RX Max	114.3774	21.2376	14.8151	46.0422	24.7423	1.6872
Base	16	37	1/RX Min	-114.3774	-21.2376	-14.8151	-46.0422	-24.7423	-1.6872
Base	16	37	1/RY Max	21.2201	54.7063	28.1522	119.3745	3.4284	0.4926
Base	16	37	1/RY Min	-21.2201	-54.7063	-28.1522	-119.3745	-3.4284	-0.4926
Base	16	37	1OMEG/RX Max	343.1323	63.7129	44.4453	138.1265	74.227	5.0615
Base	16	37	1OMEG/RX Min	-343.1323	-63.7129	-44.4453	-138.1265	-74.227	-5.0615
Base	16	37	1OMEG/RY Max	63.6602	164.1189	84.4567	358.1234	10.2853	1.4778
Base	16	37	1OMEG/RY Min	-63.6602	-164.1189	-84.4567	-358.1234	-10.2853	-1.4778
Base	16	37	VB241	15.4467	4.1046	187.2998	-0.7342	3.5464	-0.0377
Base	16	37	VB242	16.8565	-215.7285	172.8475	125.2815	5.506	-0.3815
Base	16	37	VB243	19.5576	5.2159	180.9725	-1.0036	4.4578	-0.0486
Base	16	37	VB244POS	18.8822	5.2586	178.5433	-1.0327	4.2393	-0.0482
Base	16	37	VB245X Max	132.9527	26.5156	192.2542	44.9963	28.8824	1.6392
Base	16	37	VB245X Min	-95.8021	-15.9597	162.6241	-47.0881	-20.6023	-1.7351
Base	16	37	VB245Y Max	39.7954	59.9843	205.5914	118.3286	7.5685	0.4446
Base	16	37	VB245Y Min	-2.6448	-49.4283	149.2869	-120.4204	0.7116	-0.5406
Base	16	37	VB246POS	9.93	2.6387	120.407	-0.472	2.2798	-0.0243
Base	16	37	VB247X Max	119.0805	-198.1667	119.3884	172.1344	27.6287	1.339
Base	16	37	VB247X Min	-109.6744	-240.642	89.7582	80.0501	-21.856	-2.0354
Base	16	37	VB247Y Max	25.9231	-164.698	132.7256	245.4667	6.3148	0.1444
Base	16	37	VB247Y Min	-16.517	-274.1106	76.4211	6.7177	-0.5421	-0.8408
Base	16	37	VB245CORTX Max	247.3301	47.7532	207.0693	91.0384	53.6247	3.3264
Base	16	37	VB245CORTX Min	-210.1796	-37.1973	147.809	-93.1302	-45.3447	-3.4223
Base	16	37	VB245CORTY Max	61.0154	114.6906	233.7436	237.703	10.9969	0.9373
Base	16	37	VB245CORTY Min	-23.8648	-104.1347	121.1347	-239.7949	-2.7168	-1.0332
Base	16	37	VB247CORTX Max	233.4579	-176.9291	134.2035	218.1765	52.371	3.0262
Base	16	37	VB247CORTX Min	-224.0518	-261.8796	74.9432	34.0079	-46.5983	-3.7225
Base	16	37	VB247CORTY Max	47.1432	-109.9917	160.8778	364.8412	9.7432	0.637
Base	16	37	VB247CORTY Min	-37.7371	-328.8169	48.2689	-112.6567	-3.9705	-1.3334
Base	16	37	CB241	15.4467	4.1046	187.2998	-0.7342	3.5464	-0.0377
Base	16	37	CB242	16.8565	-215.7285	172.8475	125.2815	5.506	-0.3815
Base	16	37	CB243	19.5576	5.2159	180.9725	-1.0036	4.4578	-0.0486
Base	16	37	CB244	18.8822	5.2586	178.5433	-1.0327	4.2393	-0.0482
Base	16	37	CB245VX Max	139.3187	42.9275	200.6999	80.8086	29.9109	1.787
Base	16	37	CB245VX Min	-102.1682	-32.3715	154.1784	-82.9004	-21.6308	-1.8829
Base	16	37	CB245VY Max	74.1086	66.3556	210.0359	132.1412	14.9912	0.9508

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	16	37	CB245VY Min	-36.958	-55.7996	144.8424	-134.233	-6.7111	-1.0467
Base	16	37	CB246POS	4.7031	-219.4043	104.5733	126.0922	2.8864	-0.3482
Base	16	37	CB247VX Max	125.4465	-181.7548	127.8341	207.9467	28.6572	1.4868
Base	16	37	CB247VX Min	-116.0404	-257.0538	81.3126	44.2377	-22.8845	-2.1831
Base	16	37	CB247VY Max	60.2364	-158.3267	137.1701	259.2793	13.7375	0.6506
Base	16	37	CB247VY Min	-50.8302	-280.4819	71.9766	-7.0949	-7.9648	-1.3469
Base	16	37	CB245VCORTX Max	380.8056	118.2265	247.2214	244.5176	81.4527	5.4569
Base	16	37	CB245VCORTX Min	-343.655	-107.6706	107.6569	-246.6094	-73.1726	-5.5529
Base	16	37	CB245VCORTY Max	185.1752	188.5108	275.2294	398.5155	36.6934	2.9483
Base	16	37	CB245VCORTY Min	-148.0246	-177.9548	79.6489	-400.6073	-28.4134	-3.0443
Base	16	37	CB247VCORTX Max	366.9334	-106.4558	174.3556	371.6557	80.199	5.1567
Base	16	37	CB247VCORTX Min	-357.5273	-332.3529	34.791	-119.4713	-74.4263	-5.8531
Base	16	37	CB247VCORTY Max	171.3029	-36.1715	202.3636	525.6536	35.4398	2.6481
Base	16	37	CB247VCORTY Min	-161.8968	-402.6371	6.7831	-273.4691	-29.667	-3.3445
Base	16	37	B231	11.0333	2.9318	133.7856	-0.5244	2.5332	-0.027
Base	16	37	B232	16.3686	4.6916	150.682	-0.941	3.6334	-0.0426
Base	16	37	B233	11.6473	2.893	135.9939	-0.498	2.7318	-0.0274
Base	16	37	B234	16.9825	4.6528	152.8904	-0.9146	3.832	-0.043
Base	16	37	B235POS	11.0333	2.9318	133.7856	-0.5244	2.5332	-0.027
Base	16	37	B235NEG	11.0333	2.9318	133.7856	-0.5244	2.5332	-0.027
Base	16	37	B236X Max	91.0975	17.7982	144.1561	31.7051	19.8528	1.1541
Base	16	37	B236X Min	-69.0308	-11.9345	123.415	-32.7539	-14.7865	-1.208
Base	16	37	B236Y Max	25.8874	41.2263	153.4921	83.0377	4.9331	0.3179
Base	16	37	B236Y Min	-3.8207	-35.3626	114.079	-84.0866	0.1333	-0.3718
Base	16	37	B237POS	15.4952	4.2226	148.1142	-0.8171	3.5073	-0.039
Base	16	37	B238X Max	75.5434	15.3723	155.8921	23.3551	16.497	0.8468
Base	16	37	B238X Min	-44.5529	-6.9272	140.3362	-24.9892	-9.4824	-0.9248
Base	16	37	B238Y Max	26.6358	32.9434	162.8941	61.8545	5.3072	0.2196
Base	16	37	B238Y Min	4.3547	-24.4982	133.3343	-63.4887	1.7074	-0.2976
Base	16	37	B239POS	6.62	1.7591	80.2713	-0.3147	1.5199	-0.0162
Base	16	37	B23-10X Max	86.6842	16.6254	90.6419	31.9149	18.8395	1.1649
Base	16	37	B23-10X Min	-73.4442	-13.1072	69.9008	-32.5442	-15.7997	-1.1972
Base	16	37	B23-10Y Max	21.4741	40.0535	99.9779	83.2475	3.9198	0.3287
Base	16	37	B23-10Y Min	-8.234	-36.5353	60.5648	-83.8768	-0.88	-0.361
Base	16	37	B237NEG	15.4952	4.2226	148.1142	-0.8171	3.5073	-0.039
Base	16	37	B239NEG	6.62	1.7591	80.2713	-0.3147	1.5199	-0.0162
Base	16	37	VB244NEG	18.8822	5.2586	178.5433	-1.0327	4.2393	-0.0482
Base	16	37	VB246NEG	4.7031	-219.4043	104.5733	126.0922	2.8864	-0.3482
Base	16	37	CB246NEG	9.93	2.6387	120.407	-0.472	2.2798	-0.0243
Base	16	37	C1	17.6534	4.6909	214.0569	-0.8391	4.053	-0.0431
Base	16	37	C2	25.5603	7.0302	219.778	-1.3975	5.7545	-0.065
Base	16	37	C3	15.0184	-172.3531	152.2621	100.2013	4.8076	-0.308
Base	16	37	C4	5.6831	-177.7713	107.5422	102.3614	2.7726	-0.2874
Base	17	39	DEAD	11.5326	12.1198	217.973	-9.8387	12.6775	-0.0269
Base	17	39	LR	-0.3705	0.0573	5.671	-0.0733	-0.4216	-0.0005

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	17	39	LIVE	10.3046	7.2733	46.8545	-6.0255	11.136	-0.0128
Base	17	39	1/RX Max	109.334	50.1501	15.9492	101.834	31.0376	1.875
Base	17	39	1/RX Min	-109.334	-50.1501	-15.9492	-101.834	-31.0376	-1.875
Base	17	39	1/RY Max	20.5367	72.0205	24.0888	146.7976	3.6796	0.5513
Base	17	39	1/RY Min	-20.5367	-72.0205	-24.0888	-146.7976	-3.6796	-0.5513
Base	17	39	1OMEG/RX Max	328.0019	150.4504	47.8475	305.5019	93.1129	5.625
Base	17	39	1OMEG/RX Min	-328.0019	-150.4504	-47.8475	-305.5019	-93.1129	-5.625
Base	17	39	1OMEG/RY Max	61.6102	216.0616	72.2663	440.3928	11.0387	1.6539
Base	17	39	1OMEG/RY Min	-61.6102	-216.0616	-72.2663	-440.3928	-11.0387	-1.6539
Base	17	39	VB241	16.1457	16.9677	305.1623	-13.7742	17.7485	-0.0376
Base	17	39	VB242	29.8486	-240.821	308.2221	132.2014	32.0105	-0.0574
Base	17	39	VB243	23.551	21.9087	317.4957	-17.9492	25.6745	-0.0459
Base	17	39	VB244POS	23.9586	21.8457	311.2576	-17.8686	26.1382	-0.0454
Base	17	39	VB245X Max	133.4778	71.9671	324.3713	84.002	57.3866	1.8299
Base	17	39	VB245X Min	-85.1901	-28.3331	292.473	-119.6659	-4.6886	-1.9201
Base	17	39	VB245Y Max	44.6805	93.8376	332.5109	128.9656	30.0286	0.5062
Base	17	39	VB245Y Min	3.6071	-50.2035	284.3334	-164.6295	22.6694	-0.5964
Base	17	39	VB246POS	10.3794	10.9078	196.1757	-8.8548	11.4097	-0.0242
Base	17	39	VB247X Max	119.4206	-205.9727	180.9767	246.6644	41.638	1.8465
Base	17	39	VB247X Min	-99.2474	-306.273	149.0783	42.9965	-20.4373	-1.9035
Base	17	39	VB247Y Max	30.6233	-184.1023	189.1163	291.6281	14.2799	0.5228
Base	17	39	VB247Y Min	-10.4501	-328.1434	140.9387	-1.9671	6.9208	-0.5798
Base	17	39	VB245CORTX Max	242.8117	122.1173	340.3205	185.836	88.4243	3.7049
Base	17	39	VB245CORTX Min	-194.5241	-78.4832	276.5238	-221.4999	-35.7263	-3.7951
Base	17	39	VB245CORTY Max	65.2173	165.8581	356.5997	275.7632	33.7082	1.0575
Base	17	39	VB245CORTY Min	-16.9297	-122.2241	260.2446	-311.4271	18.9898	-1.1477
Base	17	39	VB247CORTX Max	228.7545	-155.8226	196.9258	348.4984	72.6756	3.7215
Base	17	39	VB247CORTX Min	-208.5813	-356.4231	133.1291	-58.8375	-51.4749	-3.7785
Base	17	39	VB247CORTY Max	51.1601	-112.0818	213.205	438.4256	17.9595	1.0741
Base	17	39	VB247CORTY Min	-30.9869	-400.164	116.85	-148.7647	3.2412	-1.1311
Base	17	39	CB241	16.1457	16.9677	305.1623	-13.7742	17.7485	-0.0376
Base	17	39	CB242	29.8486	-240.821	308.2221	132.2014	32.0105	-0.0574
Base	17	39	CB243	23.551	21.9087	317.4957	-17.9492	25.6745	-0.0459
Base	17	39	CB244	23.9586	21.8457	311.2576	-17.8686	26.1382	-0.0454
Base	17	39	CB245VX Max	139.6388	93.5733	331.5979	128.0413	58.4905	1.9953
Base	17	39	CB245VX Min	-91.3512	-49.9393	285.2463	-163.7052	-5.7925	-2.0855
Base	17	39	CB245VY Max	77.4807	108.8826	337.2957	159.5158	39.3399	1.0687
Base	17	39	CB245VY Min	-29.1931	-65.2486	279.5486	-195.1797	13.3581	-1.1589
Base	17	39	CB246POS	10.0866	-256.1229	165.0275	144.8305	10.6003	-0.0285
Base	17	39	CB247VX Max	125.5816	-184.3666	188.2033	290.7037	42.7419	2.0119
Base	17	39	CB247VX Min	-105.4084	-327.8791	141.8517	-1.0428	-21.5412	-2.0689
Base	17	39	CB247VY Max	63.4235	-169.0573	193.901	322.1782	23.5912	1.0853
Base	17	39	CB247VY Min	-43.2503	-343.1884	136.154	-32.5173	-2.3905	-1.1423
Base	17	39	CB245VCORTX Max	370.6287	237.0859	377.9495	419.7878	122.7736	6.076
Base	17	39	CB245VCORTX Min	-322.3411	-193.4518	238.8947	-455.4517	-70.0755	-6.1662

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	17	39	CB245VCORTY Max	184.1545	283.0138	395.0427	514.2114	65.3216	3.2963
Base	17	39	CB245VCORTY Min	-135.8669	-239.3797	221.8016	-549.8753	-12.6236	-3.3865
Base	17	39	CB247VCORTX Max	356.5715	-40.854	234.5549	582.4502	107.0249	6.0926
Base	17	39	CB247VCORTX Min	-336.3983	-471.3917	95.5001	-292.7893	-85.8242	-6.1497
Base	17	39	CB247VCORTY Max	170.0973	5.0739	251.648	676.8738	49.573	3.3128
Base	17	39	CB247VCORTY Min	-149.9241	-517.3196	78.4069	-387.2129	-28.3723	-3.3699
Base	17	39	B231	11.5326	12.1198	217.973	-9.8387	12.6775	-0.0269
Base	17	39	B232	21.8373	19.3931	264.8275	-15.8642	23.8135	-0.0397
Base	17	39	B233	11.1621	12.1771	223.644	-9.912	12.2559	-0.0274
Base	17	39	B234	21.4668	19.4504	270.4985	-15.9375	23.3919	-0.0403
Base	17	39	B235POS	11.5326	12.1198	217.973	-9.8387	12.6775	-0.0269
Base	17	39	B235NEG	11.5326	12.1198	217.973	-9.8387	12.6775	-0.0269
Base	17	39	B236X Max	88.0664	47.2249	229.1375	61.4451	34.4038	1.2856
Base	17	39	B236X Min	-65.0011	-22.9853	206.8086	-81.1225	-9.0489	-1.3394
Base	17	39	B236Y Max	25.9083	62.5342	234.8352	92.9196	15.2532	0.359
Base	17	39	B236Y Min	-2.8431	-38.2946	201.1109	-112.597	10.1018	-0.4128
Base	17	39	B237POS	18.9832	17.6177	257.3671	-14.4128	20.7133	-0.0369
Base	17	39	B238X Max	76.3836	43.9466	265.7405	39.0501	37.0081	0.9475
Base	17	39	B238X Min	-38.4171	-8.7111	248.9938	-67.8756	4.4186	-1.0213
Base	17	39	B238Y Max	29.765	55.4285	270.0137	62.656	22.6451	0.2525
Base	17	39	B238Y Min	8.2015	-20.193	244.7205	-91.4815	18.7815	-0.3263
Base	17	39	B239POS	6.9196	7.2719	130.7838	-5.9032	7.6065	-0.0161
Base	17	39	B23-10X Max	83.4533	42.377	141.9482	65.3806	29.3328	1.2964
Base	17	39	B23-10X Min	-69.6142	-27.8332	119.6194	-77.187	-14.1199	-1.3286
Base	17	39	B23-10Y Max	21.2953	57.6863	147.646	96.8551	10.1822	0.3698
Base	17	39	B23-10Y Min	-7.4561	-43.1425	113.9217	-108.6615	5.0308	-0.402
Base	17	39	B237NEG	18.9832	17.6177	257.3671	-14.4128	20.7133	-0.0369
Base	17	39	B239NEG	6.9196	7.2719	130.7838	-5.9032	7.6065	-0.0161
Base	17	39	VB244NEG	23.9586	21.8457	311.2576	-17.8686	26.1382	-0.0454
Base	17	39	VB246NEG	10.0866	-256.1229	165.0275	144.8305	10.6003	-0.0285
Base	17	39	CB246NEG	10.3794	10.9078	196.1757	-8.8548	11.4097	-0.0242
Base	17	39	C1	18.4522	19.3917	348.7569	-15.742	20.2839	-0.043
Base	17	39	C2	33.0337	29.4297	394.4556	-24.1421	35.9631	-0.0604
Base	17	39	C3	24.5908	-191.5156	271.1857	104.8112	26.3784	-0.0488
Base	17	39	C4	10.1415	-206.0546	170.8678	116.0145	10.7521	-0.0277
Base	18	41	DEAD	-27.6488	8.5522	176.8531	-7.0752	-21.4773	0.2138
Base	18	41	LR	-0.1962	-0.0208	6.3625	0.0108	0.2704	-0.0006
Base	18	41	LIVE	-14.2756	5.0573	30.8885	-4.2509	-14.3762	0.1195
Base	18	41	1/RX Max	78.2915	61.4649	105.642	112.9745	17.6333	3.5902
Base	18	41	1/RX Min	-78.2915	-61.4649	-105.642	-112.9745	-17.6333	-3.5902
Base	18	41	1/RY Max	18.4312	53.5259	35.5818	107.4222	9.3642	4.454
Base	18	41	1/RY Min	-18.4312	-53.5259	-35.5818	-107.4222	-9.3642	-4.454
Base	18	41	1OMEG/RX Max	234.8744	184.3946	316.926	338.9234	52.9	10.7705
Base	18	41	1OMEG/RX Min	-234.8744	-184.3946	-316.926	-338.9234	-52.9	-10.7705
Base	18	41	1OMEG/RY Max	55.2936	160.5776	106.7453	322.2665	28.0925	13.3621

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	18	41	1OMEG/RY Min	-55.2936	-160.5776	-106.7453	-322.2665	-28.0925	-13.3621
Base	18	41	VB241	-38.7083	11.973	247.5944	-9.9052	-30.0683	0.2994
Base	18	41	VB242	-48.4542	-158.7855	249.6941	95.3054	-45.142	4.9413
Base	18	41	VB243	-47.768	15.2866	253.2923	-12.7238	-39.7163	0.3751
Base	18	41	VB244POS	-47.5522	15.3094	246.2935	-12.7357	-40.0138	0.3758
Base	18	41	VB245X Max	30.8373	76.7847	348.7542	100.2334	-22.5157	3.9662
Base	18	41	VB245X Min	-125.7456	-46.145	137.4702	-125.7155	-57.7823	-3.2141
Base	18	41	VB245Y Max	-29.023	68.8457	278.694	94.6811	-30.7848	4.8301
Base	18	41	VB245Y Min	-65.8853	-38.206	207.5305	-120.1633	-49.5132	-4.078
Base	18	41	VB246POS	-24.8839	7.6969	159.1678	-6.3676	-19.3296	0.1925
Base	18	41	VB247X Max	61.0709	-107.9675	249.6773	217.1985	1.8012	8.2765
Base	18	41	VB247X Min	-95.512	-230.8972	38.3933	-8.7505	-33.4655	1.0962
Base	18	41	VB247Y Max	1.2106	-115.9065	179.6171	211.6462	-6.4679	9.1404
Base	18	41	VB247Y Min	-35.6518	-222.9582	108.4535	-3.1982	-25.1963	0.2323
Base	18	41	VB245CORTX Max	109.1288	138.2496	454.3962	213.2079	-4.8823	7.5564
Base	18	41	VB245CORTX Min	-204.0371	-107.6099	31.8283	-238.69	-75.4156	-6.8043
Base	18	41	VB245CORTY Max	-10.5918	122.3716	314.2758	202.1033	-21.4206	9.2841
Base	18	41	VB245CORTY Min	-84.3165	-91.7319	171.9487	-227.5854	-58.8773	-8.532
Base	18	41	VB247CORTX Max	139.3624	-46.5026	355.3193	330.1729	19.4345	11.8667
Base	18	41	VB247CORTX Min	-173.8035	-292.3621	-67.2487	-121.725	-51.0988	-2.494
Base	18	41	VB247CORTY Max	19.6418	-62.3807	215.1988	319.0684	2.8962	13.5944
Base	18	41	VB247CORTY Min	-54.0829	-276.4841	72.8717	-110.6204	-34.5605	-4.2217
Base	18	41	CB241	-38.7083	11.973	247.5944	-9.9052	-30.0683	0.2994
Base	18	41	CB242	-48.4542	-158.7855	249.6941	95.3054	-45.142	4.9413
Base	18	41	CB243	-47.768	15.2866	253.2923	-12.7238	-39.7163	0.3751
Base	18	41	CB244	-47.5522	15.3094	246.2935	-12.7357	-40.0138	0.3758
Base	18	41	CB245VX Max	36.3667	92.8425	359.4288	132.4601	-19.7064	5.3024
Base	18	41	CB245VX Min	-131.275	-62.2028	126.7957	-157.9422	-60.5916	-4.5503
Base	18	41	CB245VY Max	-5.5355	87.2852	310.3866	128.5735	-25.4948	5.9071
Base	18	41	CB245VY Min	-89.3728	-56.6455	175.8379	-154.0556	-54.8032	-5.155
Base	18	41	CB246POS	-17.2206	-169.4324	144.0353	104.224	-15.8321	4.6863
Base	18	41	CB247VX Max	66.6003	-91.9098	260.3518	249.4251	4.6105	9.6127
Base	18	41	CB247VX Min	-101.0414	-246.955	27.7188	-40.9771	-36.2747	-0.24
Base	18	41	CB247VY Max	24.6981	-97.4671	211.3097	245.5385	-1.1779	10.2174
Base	18	41	CB247VY Min	-59.1392	-241.3977	76.7609	-37.0905	-30.4863	-0.8447
Base	18	41	CB245VCORTX Max	204.0083	247.8877	592.0618	422.8623	21.1788	15.1552
Base	18	41	CB245VCORTX Min	-298.9166	-217.248	-105.8373	-448.3445	-101.4767	-14.4031
Base	18	41	CB245VCORTY Max	78.3017	231.2158	444.9354	411.2025	3.8135	16.9693
Base	18	41	CB245VCORTY Min	-173.21	-200.5761	41.2891	-436.6846	-84.1115	-16.2172
Base	18	41	CB247VCORTX Max	234.2419	63.1355	492.9849	539.8274	45.4956	19.4654
Base	18	41	CB247VCORTX Min	-268.683	-402.0002	-204.9143	-331.3794	-77.1599	-10.0928
Base	18	41	CB247VCORTY Max	108.5353	46.4636	345.8584	528.1676	28.1304	21.2796
Base	18	41	CB247VCORTY Min	-142.9765	-385.3283	-57.7878	-319.7196	-59.7947	-11.9069
Base	18	41	B231	-27.6488	8.5522	176.8531	-7.0752	-21.4773	0.2138
Base	18	41	B232	-41.9244	13.6094	207.7416	-11.326	-35.8535	0.3333

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	18	41	B233	-27.845	8.5313	183.2156	-7.0644	-21.2069	0.2132
Base	18	41	B234	-42.1206	13.5886	214.1041	-11.3153	-35.5831	0.3327
Base	18	41	B235POS	-27.6488	8.5522	176.8531	-7.0752	-21.4773	0.2138
Base	18	41	B235NEG	-27.6488	8.5522	176.8531	-7.0752	-21.4773	0.2138
Base	18	41	B236X Max	27.1552	51.5776	250.8025	72.007	-9.134	2.7269
Base	18	41	B236X Min	-82.4528	-34.4733	102.9037	-86.1573	-33.8207	-2.2993
Base	18	41	B236Y Max	-14.747	46.0202	201.7604	68.1204	-14.9224	3.3317
Base	18	41	B236Y Min	-40.5506	-28.9159	151.9459	-82.2707	-28.0323	-2.904
Base	18	41	B237POS	-38.5026	12.3295	204.7914	-10.2552	-32.0566	0.303
Base	18	41	B238X Max	2.6004	44.5986	260.2534	49.0564	-22.7991	2.1878
Base	18	41	B238X Min	-79.6056	-19.9396	149.3293	-69.5668	-41.3141	-1.5819
Base	18	41	B238Y Max	-28.8263	40.4306	223.4718	46.1414	-27.1405	2.6413
Base	18	41	B238Y Min	-48.179	-15.7716	186.1109	-66.6519	-36.9728	-2.0354
Base	18	41	B239POS	-16.5893	5.1313	106.1119	-4.2451	-12.8864	0.1283
Base	18	41	B23-10X Max	38.2147	48.1567	180.0613	74.837	-0.5431	2.6414
Base	18	41	B23-10X Min	-71.3933	-37.8941	32.1625	-83.3272	-25.2297	-2.3848
Base	18	41	B23-10Y Max	-3.6875	42.5994	131.0191	70.9504	-6.3315	3.2461
Base	18	41	B23-10Y Min	-29.4911	-32.3368	81.2046	-79.4406	-19.4413	-2.9895
Base	18	41	B237NEG	-38.5026	12.3295	204.7914	-10.2552	-32.0566	0.303
Base	18	41	B239NEG	-16.5893	5.1313	106.1119	-4.2451	-12.8864	0.1283
Base	18	41	VB244NEG	-47.5522	15.3094	246.2935	-12.7357	-40.0138	0.3758
Base	18	41	VB246NEG	-17.2206	-169.4324	144.0353	104.224	-15.8321	4.6863
Base	18	41	CB246NEG	-24.8839	7.6969	159.1678	-6.3676	-19.3296	0.1925
Base	18	41	C1	-44.2381	13.6834	282.965	-11.3203	-34.3637	0.3421
Base	18	41	C2	-63.3103	20.535	310.9211	-17.1134	-54.048	0.5014
Base	18	41	C3	-41.4244	-126.277	221.271	75.617	-37.8086	3.9718
Base	18	41	C4	-18.6574	-136.2206	146.8726	83.4881	-16.4879	3.8437
Base	19	45	DEAD	3.1824	-5.3024	280.1469	6.4239	3.4747	0.0166
Base	19	45	LR	-0.1852	0.0127	8.5065	-0.0141	-0.1995	0.0007
Base	19	45	LIVE	3.9191	-3.7378	83.9915	4.4175	4.2581	0.005
Base	19	45	1/RX Max	8.103	28.9608	25.3162	48.6429	14.9154	1.7841
Base	19	45	1/RX Min	-8.103	-28.9608	-25.3162	-48.6429	-14.9154	-1.7841
Base	19	45	1/RY Max	2.2026	23.1793	6.8489	39.0771	4.2828	0.5262
Base	19	45	1/RY Min	-2.2026	-23.1793	-6.8489	-39.0771	-4.2828	-0.5262
Base	19	45	1OMEG/RX Max	24.3091	86.8823	75.9486	145.9286	44.7461	5.3524
Base	19	45	1OMEG/RX Min	-24.3091	-86.8823	-75.9486	-145.9286	-44.7461	-5.3524
Base	19	45	1OMEG/RY Max	6.6078	69.5379	20.5467	117.2313	12.8485	1.5786
Base	19	45	1OMEG/RY Min	-6.6078	-69.5379	-20.5467	-117.2313	-12.8485	-1.5786
Base	19	45	VB241	4.4554	-7.4233	392.2057	8.9934	4.8645	0.0232
Base	19	45	VB242	9.9726	-34.72	484.3636	51.8311	10.8736	0.028
Base	19	45	VB243	7.4418	-10.0803	433.7782	12.1036	8.1086	0.026
Base	19	45	VB244POS	7.6455	-10.0943	424.4211	12.1191	8.328	0.0252
Base	19	45	VB245X Max	15.8411	18.8601	445.484	60.769	23.3431	1.809
Base	19	45	VB245X Min	-0.365	-39.0614	394.8516	-36.5168	-6.4876	-1.7592
Base	19	45	VB245Y Max	9.9406	13.0787	427.0167	51.2032	12.7106	0.5511

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	19	45	VB245Y Min	5.5354	-33.2799	413.3189	-26.951	4.1449	-0.5013
Base	19	45	VB246POS	2.8642	-4.7721	252.1322	5.7815	3.1272	0.0149
Base	19	45	VB247X Max	10.9429	1.8057	286.9961	91.4859	18.0333	1.7989
Base	19	45	VB247X Min	-5.2632	-56.1159	236.3637	-5.7999	-11.7974	-1.7694
Base	19	45	VB247Y Max	5.0424	-3.9758	268.5288	81.9201	7.4008	0.5409
Base	19	45	VB247Y Min	0.6372	-50.3344	254.831	3.7659	-1.1649	-0.5115
Base	19	45	VB245CORTX Max	23.9441	47.8209	470.8002	109.4118	38.2584	3.5932
Base	19	45	VB245CORTX Min	-8.4681	-68.0222	369.5354	-85.1596	-21.403	-3.5434
Base	19	45	VB245CORTY Max	12.1432	36.258	433.8656	90.2803	16.9934	1.0773
Base	19	45	VB245CORTY Min	3.3328	-56.4592	406.47	-66.0281	-0.138	-1.0275
Base	19	45	VB247CORTX Max	19.0459	30.7665	312.3122	140.1287	32.9487	3.583
Base	19	45	VB247CORTX Min	-13.3662	-85.0767	211.0475	-54.4427	-26.7128	-3.5536
Base	19	45	VB247CORTY Max	7.245	19.2035	275.3777	120.9972	11.6836	1.0671
Base	19	45	VB247CORTY Min	-1.5654	-73.5137	247.9821	-35.3112	-5.4477	-1.0377
Base	19	45	CB241	4.4554	-7.4233	392.2057	8.9934	4.8645	0.0232
Base	19	45	CB242	9.9726	-34.72	484.3636	51.8311	10.8736	0.028
Base	19	45	CB243	7.4418	-10.0803	433.7782	12.1036	8.1086	0.026
Base	19	45	CB244	7.6455	-10.0943	424.4211	12.1191	8.328	0.0252
Base	19	45	CB245VX Max	16.5019	25.8139	447.5387	72.4921	24.6279	1.9669
Base	19	45	CB245VX Min	-1.0258	-46.0152	392.797	-48.2399	-7.7725	-1.9171
Base	19	45	CB245VY Max	12.3715	21.7669	434.6115	65.7961	17.1852	1.0863
Base	19	45	CB245VY Min	3.1045	-41.9682	405.7241	-41.5439	-0.3297	-1.0366
Base	19	45	CB246POS	2.8398	-27.1551	261.6799	42.843	3.1179	0.0147
Base	19	45	CB247VX Max	11.6037	8.7595	289.0507	103.209	19.3182	1.9567
Base	19	45	CB247VX Min	-5.924	-63.0697	234.309	-17.523	-13.0823	-1.9273
Base	19	45	CB247VY Max	7.4733	4.7124	276.1236	96.513	11.8754	1.0762
Base	19	45	CB247VY Min	-1.7937	-59.0226	247.2361	-10.827	-5.6395	-1.0467
Base	19	45	CB245VCORTX Max	34.0295	97.6431	502.2804	193.2241	57.0284	5.8509
Base	19	45	CB245VCORTX Min	-18.5534	-117.8444	338.0553	-168.9719	-40.1729	-5.8011
Base	19	45	CB245VCORTY Max	21.6386	85.5019	463.499	173.136	34.7001	3.2092
Base	19	45	CB245VCORTY Min	-6.1625	-105.7032	376.8366	-148.8838	-17.8446	-3.1594
Base	19	45	CB247VCORTX Max	29.1313	80.5886	343.7924	223.941	51.7186	5.8407
Base	19	45	CB247VCORTX Min	-23.4516	-134.8988	179.5673	-138.255	-45.4827	-5.8113
Base	19	45	CB247VCORTY Max	16.7404	68.4475	305.0111	203.8529	29.3903	3.199
Base	19	45	CB247VCORTY Min	-11.0607	-122.7577	218.3486	-118.1669	-23.1544	-3.1696
Base	19	45	B231	3.1824	-5.3024	280.1469	6.4239	3.4747	0.0166
Base	19	45	B232	7.1015	-9.0402	364.1384	10.8413	7.7328	0.0216
Base	19	45	B233	2.9973	-5.2896	288.6534	6.4098	3.2752	0.0173
Base	19	45	B234	6.9164	-9.0274	372.6449	10.8273	7.5333	0.0223
Base	19	45	B235POS	3.1824	-5.3024	280.1469	6.4239	3.4747	0.0166
Base	19	45	B235NEG	3.1824	-5.3024	280.1469	6.4239	3.4747	0.0166
Base	19	45	B236X Max	8.8546	14.9702	297.8683	40.4739	13.9154	1.2655
Base	19	45	B236X Min	-2.4897	-25.5749	262.4256	-27.6261	-6.9661	-1.2323
Base	19	45	B236Y Max	4.7242	10.9232	284.9412	33.7778	6.4726	0.3849
Base	19	45	B236Y Min	1.6406	-21.5279	275.3527	-20.9301	0.4767	-0.3517

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	19	45	B237POS	5.9829	-8.0962	349.5204	9.7264	6.5187	0.0209
Base	19	45	B238X Max	10.237	7.1082	362.8114	35.2639	14.3492	0.9575
Base	19	45	B238X Min	1.7288	-23.3006	336.2294	-15.8111	-1.3119	-0.9158
Base	19	45	B238Y Max	7.1393	4.073	353.1161	30.2419	8.7671	0.2971
Base	19	45	B238Y Min	4.8265	-20.2653	345.9248	-10.7891	4.2702	-0.2554
Base	19	45	B239POS	1.9095	-3.1814	168.0882	3.8543	2.0848	0.01
Base	19	45	B23-10X Max	7.5816	17.0911	185.8095	37.9043	12.5255	1.2589
Base	19	45	B23-10X Min	-3.7627	-23.454	150.3668	-30.1957	-8.356	-1.2389
Base	19	45	B23-10Y Max	3.4513	13.0441	172.8824	31.2083	5.0828	0.3783
Base	19	45	B23-10Y Min	0.3676	-19.4069	163.2939	-23.4997	-0.9132	-0.3584
Base	19	45	B237NEG	5.9829	-8.0962	349.5204	9.7264	6.5187	0.0209
Base	19	45	B239NEG	1.9095	-3.1814	168.0882	3.8543	2.0848	0.01
Base	19	45	VB244NEG	7.6455	-10.0943	424.4211	12.1191	8.328	0.0252
Base	19	45	VB246NEG	2.8398	-27.1551	261.6799	42.843	3.1179	0.0147
Base	19	45	CB246NEG	2.8642	-4.7721	252.1322	5.7815	3.1272	0.0149
Base	19	45	C1	5.0919	-8.4838	448.2351	10.2782	5.5595	0.0266
Base	19	45	C2	10.8031	-13.756	549.4523	16.4792	11.7643	0.0329
Base	19	45	C3	8.1015	-28.242	420.1898	42.0306	8.8361	0.0245
Base	19	45	C4	2.8444	-22.9583	259.8897	35.894	3.1197	0.0148
Base	20	47	DEAD	-2.7214	-2.2373	243.0874	3.0626	-2.9573	0.0003
Base	20	47	LR	0.1152	0.0412	6.2115	-0.0466	0.125	0
Base	20	47	LIVE	-2.108	-1.7447	80.0644	2.2439	-2.2908	-0.0004
Base	20	47	1/RX Max	9.3242	16.8148	20.6492	28.0477	16.5644	1.7964
Base	20	47	1/RX Min	-9.3242	-16.8148	-20.6492	-28.0477	-16.5644	-1.7964
Base	20	47	1/RY Max	2.6812	22.2079	8.8048	37.3601	4.8277	0.5301
Base	20	47	1/RY Min	-2.6812	-22.2079	-8.8048	-37.3601	-4.8277	-0.5301
Base	20	47	1OMEG/RX Max	27.9726	50.4445	61.9475	84.1432	49.6933	5.3891
Base	20	47	1OMEG/RX Min	-27.9726	-50.4445	-61.9475	-84.1432	-49.6933	-5.3891
Base	20	47	1OMEG/RY Max	8.0435	66.6236	26.4144	112.0804	14.483	1.5903
Base	20	47	1OMEG/RY Min	-8.0435	-66.6236	-26.4144	-112.0804	-14.483	-1.5903
Base	20	47	VB241	-3.8099	-3.1322	340.3223	4.2876	-4.1402	0.0004
Base	20	47	VB242	-6.327	-28.428	440.7366	45.0472	-6.8486	-0.0252
Base	20	47	VB243	-5.1893	-4.3634	381.7078	5.8445	-5.6396	-0.0001
Base	20	47	VB244POS	-5.3161	-4.4088	374.8751	5.8957	-5.777	-0.0001
Base	20	47	VB245X Max	3.9505	12.3854	392.4185	33.9667	10.7249	1.7963
Base	20	47	VB245X Min	-14.6979	-21.2443	351.1201	-22.1287	-22.404	-1.7964
Base	20	47	VB245Y Max	-2.6925	17.7784	380.5741	43.2791	-1.0119	0.5301
Base	20	47	VB245Y Min	-8.0549	-26.6373	362.9645	-31.4411	-10.6672	-0.5302
Base	20	47	VB246POS	-2.4492	-2.0136	218.7786	2.7563	-2.6616	0.0003
Base	20	47	VB247X Max	7.1289	-8.1712	257.2506	68.6091	14.2058	1.7717
Base	20	47	VB247X Min	-11.5195	-41.8008	215.9523	12.5137	-18.9231	-1.8211
Base	20	47	VB247Y Max	0.4858	-2.7781	245.4063	77.9215	2.469	0.5054
Base	20	47	VB247Y Min	-4.8765	-47.1939	227.7967	3.2013	-7.1863	-0.5548
Base	20	47	VB245CORTX Max	13.2747	29.2002	413.0676	62.0145	27.2893	3.5927
Base	20	47	VB245CORTX Min	-24.0221	-38.0591	330.4709	-50.1764	-38.9684	-3.5928

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	20	47	VB245CORTY Max	-0.0113	39.9863	389.3789	80.6393	3.8158	1.0602
Base	20	47	VB245CORTY Min	-10.736	-48.8452	354.1597	-68.8012	-15.4949	-1.0603
Base	20	47	VB247CORTX Max	16.453	8.6437	277.8998	96.6569	30.7702	3.5681
Base	20	47	VB247CORTX Min	-20.8437	-58.6157	195.3031	-15.5341	-35.4875	-3.6174
Base	20	47	VB247CORTY Max	3.167	19.4298	254.2111	115.2817	7.2967	1.0355
Base	20	47	VB247CORTY Min	-7.5577	-69.4018	218.9919	-34.1588	-12.014	-1.0849
Base	20	47	CB241	-3.8099	-3.1322	340.3223	4.2876	-4.1402	0.0004
Base	20	47	CB242	-6.327	-28.428	440.7366	45.0472	-6.8486	-0.0252
Base	20	47	CB243	-5.1893	-4.3634	381.7078	5.8445	-5.6396	-0.0001
Base	20	47	CB244	-5.3161	-4.4088	374.8751	5.8957	-5.777	-0.0001
Base	20	47	CB245VX Max	4.7549	19.0478	395.0599	45.1748	12.1732	1.9554
Base	20	47	CB245VX Min	-15.5022	-27.9066	348.4787	-33.3368	-23.8523	-1.9555
Base	20	47	CB245VY Max	0.1048	22.8229	386.7688	51.6935	3.9575	1.069
Base	20	47	CB245VY Min	-10.8521	-31.6818	356.7697	-39.8554	-15.6365	-1.0691
Base	20	47	CB246POS	-2.1953	-24.986	236.6015	40.5614	-2.3586	-0.0247
Base	20	47	CB247VX Max	7.9332	-1.5088	259.8921	79.8172	15.6541	1.9307
Base	20	47	CB247VX Min	-12.3239	-48.4632	213.3108	1.3056	-20.3714	-1.9801
Base	20	47	CB247VY Max	3.2831	2.2663	251.601	86.3359	7.4384	1.0443
Base	20	47	CB247VY Min	-7.6738	-52.2383	221.6019	-5.213	-12.1557	-1.0937
Base	20	47	CB245VCORTX Max	25.0119	66.0022	441.6411	123.6863	48.1986	5.8662
Base	20	47	CB245VCORTX Min	-35.7593	-74.861	301.8974	-111.8483	-59.8777	-5.8663
Base	20	47	CB245VCORTY Max	11.0616	77.3276	416.768	143.2423	23.5515	3.207
Base	20	47	CB245VCORTY Min	-21.809	-86.1864	326.7706	-131.4043	-35.2306	-3.2071
Base	20	47	CB247VCORTX Max	28.1903	45.4456	306.4733	158.3287	51.6795	5.8416
Base	20	47	CB247VCORTX Min	-32.581	-95.4176	166.7296	-77.2059	-56.3968	-5.8909
Base	20	47	CB247VCORTY Max	14.24	56.771	281.6001	177.8847	27.0324	3.1824
Base	20	47	CB247VCORTY Min	-18.6306	-106.743	191.6028	-96.7619	-31.7497	-3.2317
Base	20	47	B231	-2.7214	-2.2373	243.0874	3.0626	-2.9573	0.0003
Base	20	47	B232	-4.8294	-3.982	323.1518	5.3065	-5.2481	-0.0001
Base	20	47	B233	-2.6061	-2.1961	249.2989	3.016	-2.8323	0.0003
Base	20	47	B234	-4.7142	-3.9407	329.3634	5.2599	-5.1231	-0.0001
Base	20	47	B235POS	-2.7214	-2.2373	243.0874	3.0626	-2.9573	0.0003
Base	20	47	B235NEG	-2.7214	-2.2373	243.0874	3.0626	-2.9573	0.0003
Base	20	47	B236X Max	3.8056	9.5331	257.5418	22.696	8.6378	1.2577
Base	20	47	B236X Min	-9.2483	-14.0077	228.6329	-16.5708	-14.5524	-1.2572
Base	20	47	B236Y Max	-0.8445	13.3082	249.2507	29.2147	0.4221	0.3714
Base	20	47	B236Y Min	-4.5982	-17.7828	236.924	-23.0895	-6.3367	-0.3708
Base	20	47	B237POS	-4.216	-3.5149	307.7944	4.7106	-4.5816	-1.187E-05
Base	20	47	B238X Max	0.6792	5.3129	318.6352	19.4356	4.1147	0.9431
Base	20	47	B238X Min	-9.1112	-12.3427	296.9535	-10.0145	-13.278	-0.9431
Base	20	47	B238Y Max	-2.8084	8.1443	312.4169	24.3246	-2.0471	0.2783
Base	20	47	B238Y Min	-5.6236	-15.174	303.1718	-14.9035	-7.1162	-0.2783
Base	20	47	B239POS	-1.6328	-1.3424	145.8524	1.8375	-1.7744	0.0002
Base	20	47	B23-10X Max	4.8941	10.428	160.3068	21.471	9.8207	1.2576
Base	20	47	B23-10X Min	-8.1597	-13.1128	131.398	-17.7959	-13.3695	-1.2573

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	20	47	B23-10Y Max	0.244	14.2031	152.0158	27.9896	1.605	0.3712
Base	20	47	B23-10Y Min	-3.5096	-16.8879	139.6891	-24.3145	-5.1538	-0.3709
Base	20	47	B237NEG	-4.216	-3.5149	307.7944	4.7106	-4.5816	-1.187E-05
Base	20	47	B239NEG	-1.6328	-1.3424	145.8524	1.8375	-1.7744	0.0002
Base	20	47	VB244NEG	-5.3161	-4.4088	374.8751	5.8957	-5.777	-0.0001
Base	20	47	VB246NEG	-2.1953	-24.986	236.6015	40.5614	-2.3586	-0.0247
Base	20	47	CB246NEG	-2.4492	-2.0136	218.7786	2.7563	-2.6616	0.0003
Base	20	47	C1	-4.3542	-3.5797	388.9398	4.9001	-4.7317	0.0005
Base	20	47	C2	-7.1977	-6.028	486.9915	8.0231	-7.8221	-0.0003
Base	20	47	C3	-5.2051	-22.9075	379.9333	36.2724	-5.635	-0.0202
Base	20	47	C4	-2.2429	-20.6787	233.2597	33.473	-2.4154	-0.02
Base	21	49	DEAD	0.0487	-0.9498	105.7802	1.6562	0.0552	0.0041
Base	21	49	LR	-0.0497	0.0595	2.2526	-0.0669	-0.054	0.0003
Base	21	49	LIVE	0.2986	-0.7835	27.0465	1.1983	0.3246	0.0006
Base	21	49	1/RX Max	10.7428	10.2778	15.803	17.2654	18.2098	1.7771
Base	21	49	1/RX Min	-10.7428	-10.2778	-15.803	-17.2654	-18.2098	-1.7771
Base	21	49	1/RY Max	3.1571	21.5935	15.6787	36.487	5.3386	0.5237
Base	21	49	1/RY Min	-3.1571	-21.5935	-15.6787	-36.487	-5.3386	-0.5237
Base	21	49	1OMEG/RX Max	32.2285	30.8333	47.4089	51.7963	54.6293	5.3312
Base	21	49	1OMEG/RX Min	-32.2285	-30.8333	-47.4089	-51.7963	-54.6293	-5.3312
Base	21	49	1OMEG/RY Max	9.4714	64.7806	47.036	109.4609	16.0157	1.571
Base	21	49	1OMEG/RY Min	-9.4714	-64.7806	-47.036	-109.4609	-16.0157	-1.571
Base	21	49	VB241	0.0682	-1.3297	148.0923	2.3187	0.0772	0.0057
Base	21	49	VB242	0.2139	-24.3368	186.3946	40.6378	0.2549	0.0037
Base	21	49	VB243	0.2775	-1.8281	157.587	3.0788	0.3044	0.0059
Base	21	49	VB244POS	0.3322	-1.8935	155.1091	3.1524	0.3638	0.0056
Base	21	49	VB245X Max	11.0999	8.3545	169.7857	20.4512	18.6006	1.7825
Base	21	49	VB245X Min	-10.3858	-12.201	138.1798	-14.0797	-17.819	-1.7716
Base	21	49	VB245Y Max	3.5142	19.6703	169.6614	39.6728	5.7294	0.5291
Base	21	49	VB245Y Min	-2.8001	-23.5168	138.3041	-33.3012	-4.9478	-0.5182
Base	21	49	VB246POS	0.0438	-0.8548	95.2022	1.4906	0.0497	0.0037
Base	21	49	VB247X Max	10.4892	-12.5502	126.0628	55.5224	17.9558	1.7786
Base	21	49	VB247X Min	-10.9964	-33.1057	94.4569	20.9915	-18.4638	-1.7756
Base	21	49	VB247Y Max	2.9035	-1.2345	125.9385	74.744	5.0846	0.5251
Base	21	49	VB247Y Min	-3.4107	-44.4215	94.5811	1.77	-5.5926	-0.5222
Base	21	49	VB245CORTX Max	21.8427	18.6322	185.5887	37.7167	36.8103	3.5596
Base	21	49	VB245CORTX Min	-21.1286	-22.4788	122.3768	-31.3451	-36.0288	-3.5487
Base	21	49	VB245CORTY Max	6.6713	41.2638	185.3401	76.1597	11.0679	1.0528
Base	21	49	VB245CORTY Min	-5.9572	-45.1103	122.6254	-69.7882	-10.2864	-1.0419
Base	21	49	VB247CORTX Max	21.2321	-2.2725	141.8658	72.7879	36.1656	3.5556
Base	21	49	VB247CORTX Min	-21.7393	-43.3835	78.6539	3.7261	-36.6735	-3.5527
Base	21	49	VB247CORTY Max	6.0607	20.3591	141.6172	111.2309	10.4232	1.0488
Base	21	49	VB247CORTY Min	-6.5679	-66.0151	78.9025	-34.717	-10.9311	-1.0458
Base	21	49	CB241	0.0682	-1.3297	148.0923	2.3187	0.0772	0.0057
Base	21	49	CB242	0.2139	-24.3368	186.3946	40.6378	0.2549	0.0037

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	21	49	CB243	0.2775	-1.8281	157.587	3.0788	0.3044	0.0059
Base	21	49	CB244	0.3322	-1.8935	155.1091	3.1524	0.3638	0.0056
Base	21	49	CB245VX Max	12.047	14.8325	174.4893	31.3973	20.2021	1.9396
Base	21	49	CB245VX Min	-11.3329	-18.6791	133.4762	-25.0258	-19.4206	-1.9287
Base	21	49	CB245VY Max	6.737	22.7536	174.4023	44.8524	11.1923	1.0622
Base	21	49	CB245VY Min	-6.0229	-26.6001	133.5632	-38.4808	-10.4107	-1.0513
Base	21	49	CB246POS	-0.2536	-22.828	110.2598	38.257	-0.254	0.0015
Base	21	49	CB247VX Max	11.4364	-6.0722	130.7664	66.4685	19.5574	1.9357
Base	21	49	CB247VX Min	-11.9436	-39.5838	89.7533	10.0454	-20.0653	-1.9327
Base	21	49	CB247VY Max	6.1264	1.8489	130.6794	79.9236	10.5475	1.0583
Base	21	49	CB247VY Min	-6.6336	-47.5049	89.8403	-3.4096	-11.0555	-1.0553
Base	21	49	CB245VCORTX Max	35.427	48.3442	215.5025	87.8204	59.8248	5.808
Base	21	49	CB245VCORTX Min	-34.7129	-52.1907	92.4631	-81.4488	-59.0432	-5.7971
Base	21	49	CB245VCORTY Max	19.497	72.1073	215.2415	128.1856	32.7953	3.1758
Base	21	49	CB245VCORTY Min	-18.7829	-75.9539	92.7241	-121.814	-32.0137	-3.1649
Base	21	49	CB247VCORTX Max	34.8164	27.4395	171.7795	122.8916	59.18	5.804
Base	21	49	CB247VCORTX Min	-35.3236	-73.0954	48.7401	-46.3776	-59.688	-5.8011
Base	21	49	CB247VCORTY Max	18.8864	51.2026	171.5185	163.2568	32.1505	3.1718
Base	21	49	CB247VCORTY Min	-19.3936	-96.8586	49.0011	-86.7428	-32.6585	-3.1689
Base	21	49	B231	0.0487	-0.9498	105.7802	1.6562	0.0552	0.0041
Base	21	49	B232	0.3473	-1.7333	132.8267	2.8545	0.3798	0.0046
Base	21	49	B233	-0.001	-0.8903	108.0328	1.5894	0.0012	0.0043
Base	21	49	B234	0.2976	-1.6738	135.0793	2.7877	0.3258	0.0049
Base	21	49	B235POS	0.0487	-0.9498	105.7802	1.6562	0.0552	0.0041
Base	21	49	B235NEG	0.0487	-0.9498	105.7802	1.6562	0.0552	0.0041
Base	21	49	B236X Max	7.5687	6.2446	116.8423	13.742	12.802	1.248
Base	21	49	B236X Min	-7.4713	-8.1442	94.7181	-10.4296	-12.6917	-1.2399
Base	21	49	B236Y Max	2.2587	14.1657	116.7553	27.1971	3.7922	0.3706
Base	21	49	B236Y Min	-2.1613	-16.0653	94.8051	-23.8847	-3.6818	-0.3625
Base	21	49	B237POS	0.2354	-1.4928	127.7546	2.5048	0.2581	0.0047
Base	21	49	B238X Max	5.8753	3.903	136.0511	11.5692	9.8182	0.9377
Base	21	49	B238X Min	-5.4046	-6.8886	119.458	-6.5595	-9.302	-0.9283
Base	21	49	B238Y Max	1.8928	9.8438	135.9859	21.6605	3.0609	0.2796
Base	21	49	B238Y Min	-1.4221	-12.8294	119.5232	-16.6508	-2.5446	-0.2702
Base	21	49	B239POS	0.0292	-0.5699	63.4681	0.9937	0.0331	0.0024
Base	21	49	B23-10X Max	7.5492	6.6245	74.5302	13.0795	12.7799	1.2464
Base	21	49	B23-10X Min	-7.4908	-7.7643	52.406	-11.0921	-12.7137	-1.2415
Base	21	49	B23-10Y Max	2.2392	14.5456	74.4432	26.5346	3.7701	0.369
Base	21	49	B23-10Y Min	-2.1808	-15.6854	52.493	-24.5472	-3.7039	-0.3641
Base	21	49	B237NEG	0.2354	-1.4928	127.7546	2.5048	0.2581	0.0047
Base	21	49	B239NEG	0.0292	-0.5699	63.4681	0.9937	0.0331	0.0024
Base	21	49	VB244NEG	0.3322	-1.8935	155.1091	3.1524	0.3638	0.0056
Base	21	49	VB246NEG	-0.2536	-22.828	110.2598	38.257	-0.254	0.0015
Base	21	49	CB246NEG	0.0438	-0.8548	95.2022	1.4906	0.0497	0.0037
Base	21	49	C1	0.0779	-1.5197	169.2483	2.6499	0.0883	0.0065

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	21	49	C2	0.4913	-2.5606	197.9008	4.2422	0.5373	0.0071
Base	21	49	C3	0.1317	-19.5026	160.6182	32.6004	0.1614	0.0036
Base	21	49	C4	-0.1978	-18.708	107.4365	31.3633	-0.1971	0.0019
Base	22	51	DEAD	0.0119	-1.0826	106.2473	1.7953	0.0081	-0.0004
Base	22	51	LR	0.0488	0.0547	2.1486	-0.0623	0.0526	0.0001
Base	22	51	LIVE	-0.2325	-0.8604	27.9311	1.2832	-0.2527	-0.0007
Base	22	51	1/RX Max	10.4955	8.422	11.9274	14.2479	17.8921	1.8028
Base	22	51	1/RX Min	-10.4955	-8.422	-11.9274	-14.2479	-17.8921	-1.8028
Base	22	51	1/RY Max	3.1048	21.1907	16.4654	35.935	5.2722	0.5311
Base	22	51	1/RY Min	-3.1048	-21.1907	-16.4654	-35.935	-5.2722	-0.5311
Base	22	51	1OMEG/RX Max	31.4865	25.266	35.7821	42.7436	53.6763	5.4085
Base	22	51	1OMEG/RX Min	-31.4865	-25.266	-35.7821	-42.7436	-53.6763	-5.4085
Base	22	51	1OMEG/RY Max	9.3144	63.572	49.3963	107.8051	15.8165	1.5934
Base	22	51	1OMEG/RY Min	-9.3144	-63.572	-49.3963	-107.8051	-15.8165	-1.5934
Base	22	51	VB241	0.0167	-1.5157	148.7462	2.5134	0.0113	-0.0006
Base	22	51	VB242	-0.0569	-24.6924	186.4823	41.0757	-0.0533	-0.0275
Base	22	51	VB243	-0.1401	-2.072	158.8657	3.3377	-0.1588	-0.0011
Base	22	51	VB244POS	-0.1938	-2.1322	156.5022	3.4063	-0.2167	-0.0011
Base	22	51	VB245X Max	10.2774	6.2625	167.3552	17.6853	17.6491	1.8017
Base	22	51	VB245X Min	-10.7137	-10.5815	143.5005	-10.8104	-18.1351	-1.804
Base	22	51	VB245Y Max	2.8866	19.0311	171.8933	39.3725	5.0292	0.53
Base	22	51	VB245Y Min	-3.3229	-23.3502	138.9624	-32.4976	-5.5151	-0.5323
Base	22	51	VB246POS	0.0107	-0.9744	95.6225	1.6157	0.0073	-0.0004
Base	22	51	VB247X Max	10.7826	-14.5963	120.7714	52.7631	18.2143	1.7766
Base	22	51	VB247X Min	-10.2084	-31.4403	96.9166	24.2674	-17.5699	-1.8291
Base	22	51	VB247Y Max	3.3919	-1.8277	125.3094	74.4502	5.5944	0.5049
Base	22	51	VB247Y Min	-2.8177	-44.209	92.3785	2.5802	-4.9499	-0.5574
Base	22	51	VB245CORTX Max	20.7729	14.6845	179.2826	31.9332	35.5412	3.6045
Base	22	51	VB245CORTX Min	-21.2092	-19.0035	131.5731	-25.0582	-36.0272	-3.6069
Base	22	51	VB245CORTY Max	5.9914	40.2218	188.3587	75.3075	10.3013	1.0611
Base	22	51	VB245CORTY Min	-6.4277	-44.5408	122.497	-68.4326	-10.7873	-1.0635
Base	22	51	VB247CORTX Max	21.2781	-6.1743	132.6987	67.0109	36.1064	3.5794
Base	22	51	VB247CORTX Min	-20.704	-39.8623	84.9892	10.0195	-35.462	-3.632
Base	22	51	VB247CORTY Max	6.4966	19.363	141.7748	110.3853	10.8665	1.036
Base	22	51	VB247CORTY Min	-5.9225	-65.3996	75.9131	-33.3548	-10.2221	-1.0886
Base	22	51	CB241	0.0167	-1.5157	148.7462	2.5134	0.0113	-0.0006
Base	22	51	CB242	-0.0569	-24.6924	186.4823	41.0757	-0.0533	-0.0275
Base	22	51	CB243	-0.1401	-2.072	158.8657	3.3377	-0.1588	-0.0011
Base	22	51	CB244	-0.1938	-2.1322	156.5022	3.4063	-0.2167	-0.0011
Base	22	51	CB245VX Max	11.2088	12.6197	172.2948	28.4658	19.2308	1.961
Base	22	51	CB245VX Min	-11.6451	-16.9387	138.5608	-21.5909	-19.7167	-1.9634
Base	22	51	CB245VY Max	6.0353	21.5577	175.4715	43.6469	10.3968	1.0708
Base	22	51	CB245VY Min	-6.4716	-25.8768	135.3842	-36.7719	-10.8827	-1.0732
Base	22	51	CB246POS	0.2871	-23.0183	108.844	38.5152	0.3222	-0.0263
Base	22	51	CB247VX Max	11.714	-8.2391	125.711	63.5436	19.796	1.9359

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	22	51	CB247VX Min	-11.1399	-37.7975	91.977	13.4869	-19.1515	-1.9885
Base	22	51	CB247VY Max	6.5405	0.6989	128.8876	78.7246	10.962	1.0457
Base	22	51	CB247VY Min	-5.9664	-46.7356	88.8003	-1.6942	-10.3175	-1.0983
Base	22	51	CB245VCORTX Max	34.0627	42.178	206.0289	78.5225	58.1783	5.8854
Base	22	51	CB245VCORTX Min	-34.499	-46.4971	104.8268	-71.6476	-58.6642	-5.8877
Base	22	51	CB245VCORTY Max	18.5422	68.9922	215.5588	124.0656	31.6764	3.2148
Base	22	51	CB245VCORTY Min	-18.9785	-73.3113	95.2969	-117.1907	-32.1623	-3.2172
Base	22	51	CB247VCORTX Max	34.5679	21.3192	159.445	113.6003	58.7435	5.8603
Base	22	51	CB247VCORTX Min	-33.9938	-67.3559	58.2429	-36.5699	-58.099	-5.9128
Base	22	51	CB247VCORTY Max	19.0474	48.1334	168.9749	159.1434	32.2416	3.1897
Base	22	51	CB247VCORTY Min	-18.4733	-94.1701	48.713	-82.1129	-31.5971	-3.2423
Base	22	51	B231	0.0119	-1.0826	106.2473	1.7953	0.0081	-0.0004
Base	22	51	B232	-0.2205	-1.943	134.1784	3.0784	-0.2446	-0.0011
Base	22	51	B233	0.0607	-1.0279	108.3959	1.7329	0.0607	-0.0003
Base	22	51	B234	-0.1718	-1.8883	136.327	3.0161	-0.192	-0.001
Base	22	51	B235POS	0.0119	-1.0826	106.2473	1.7953	0.0081	-0.0004
Base	22	51	B235NEG	0.0119	-1.0826	106.2473	1.7953	0.0081	-0.0004
Base	22	51	B236X Max	7.3588	4.8128	114.5964	11.7688	12.5326	1.2616
Base	22	51	B236X Min	-7.3349	-6.978	97.8981	-8.1782	-12.5164	-1.2624
Base	22	51	B236Y Max	2.1853	13.7508	117.7731	26.9498	3.6986	0.3714
Base	22	51	B236Y Min	-2.1614	-15.9161	94.7214	-23.3593	-3.6824	-0.3722
Base	22	51	B237POS	-0.1258	-1.6869	128.8071	2.7109	-0.142	-0.0009
Base	22	51	B238X Max	5.3843	2.7347	135.069	10.191	9.2514	0.9456
Base	22	51	B238X Min	-5.636	-6.1084	122.5452	-4.7692	-9.5353	-0.9474
Base	22	51	B238Y Max	1.5042	9.4382	137.4514	21.5768	2.6259	0.278
Base	22	51	B238Y Min	-1.7559	-12.812	120.1627	-16.155	-2.9098	-0.2797
Base	22	51	B239POS	0.0071	-0.6496	63.7484	1.0772	0.0049	-0.0002
Base	22	51	B23-10X Max	7.354	5.2458	72.0975	11.0507	12.5293	1.2617
Base	22	51	B23-10X Min	-7.3397	-6.545	55.3992	-8.8963	-12.5196	-1.2622
Base	22	51	B23-10Y Max	2.1805	14.1839	75.2742	26.2317	3.6954	0.3716
Base	22	51	B23-10Y Min	-2.1662	-15.483	52.2225	-24.0774	-3.6857	-0.3721
Base	22	51	B237NEG	-0.1258	-1.6869	128.8071	2.7109	-0.142	-0.0009
Base	22	51	B239NEG	0.0071	-0.6496	63.7484	1.0772	0.0049	-0.0002
Base	22	51	VB244NEG	-0.1938	-2.1322	156.5022	3.4063	-0.2167	-0.0011
Base	22	51	VB246NEG	0.2871	-23.0183	108.844	38.5152	0.3222	-0.0263
Base	22	51	CB246NEG	0.0107	-0.9744	95.6225	1.6157	0.0073	-0.0004
Base	22	51	C1	0.0191	-1.7322	169.9956	2.8724	0.0129	-0.0007
Base	22	51	C2	-0.2956	-2.8853	199.8818	4.5888	-0.3288	-0.0016
Base	22	51	C3	-0.0015	-19.8032	160.6389	32.9673	0.0044	-0.0219
Base	22	51	C4	0.2353	-18.8851	106.365	31.5966	0.2632	-0.0214
Base	23	53	DEAD	2.3782	-1.9114	230.7124	2.6977	2.582	-0.0054
Base	23	53	LR	-0.1209	0.0378	5.9052	-0.0441	-0.1316	-0.0007
Base	23	53	LIVE	1.9338	-1.3621	83.9675	1.8308	2.102	-0.0001
Base	23	53	1/RX Max	9.6023	14.0409	21.7115	23.4841	16.8557	1.8254
Base	23	53	1/RX Min	-9.6023	-14.0409	-21.7115	-23.4841	-16.8557	-1.8254

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	23	53	1/RY Max	2.8244	22.0119	20.3743	36.9606	4.961	0.5378
Base	23	53	1/RY Min	-2.8244	-22.0119	-20.3743	-36.9606	-4.961	-0.5378
Base	23	53	1OMEG/RX Max	28.8069	42.1228	65.1345	70.4522	50.567	5.4762
Base	23	53	1OMEG/RX Min	-28.8069	-42.1228	-65.1345	-70.4522	-50.567	-5.4762
Base	23	53	1OMEG/RY Max	8.4733	66.0357	61.123	110.8818	14.8829	1.6135
Base	23	53	1OMEG/RY Min	-8.4733	-66.0357	-61.123	-110.8818	-14.8829	-1.6135
Base	23	53	VB241	3.3294	-2.676	322.9974	3.7768	3.6148	-0.0075
Base	23	53	VB242	6.1449	-27.5985	441.3055	44.2614	6.6907	-0.013
Base	23	53	VB243	4.5941	-3.5953	370.2707	4.9975	4.9899	-0.0077
Base	23	53	VB244POS	4.7271	-3.637	363.775	5.046	5.1346	-0.0069
Base	23	53	VB245X Max	14.3899	10.3851	382.5339	28.5522	22.0561	1.8188
Base	23	53	VB245X Min	-4.8147	-17.6968	339.1109	-18.416	-11.6553	-1.832
Base	23	53	VB245Y Max	7.612	18.356	381.1967	42.0287	10.1614	0.5313
Base	23	53	VB245Y Min	1.9631	-25.6678	340.4481	-31.8925	0.2394	-0.5444
Base	23	53	VB246POS	2.1403	-1.7203	207.6412	2.428	2.3238	-0.0048
Base	23	53	VB247X Max	12.0002	-10.8237	256.5027	64.029	19.4744	1.8145
Base	23	53	VB247X Min	-7.2044	-38.9055	213.0797	17.0608	-14.237	-1.8363
Base	23	53	VB247Y Max	5.2223	-2.8527	255.1655	77.5055	7.5797	0.5269
Base	23	53	VB247Y Min	-0.4266	-46.8765	214.4169	3.5843	-2.3423	-0.5487
Base	23	53	VB245CORTX Max	23.9922	24.426	404.2454	52.0362	38.9118	3.6442
Base	23	53	VB245CORTX Min	-14.417	-31.7377	317.3994	-41.9001	-28.5109	-3.6574
Base	23	53	VB245CORTY Max	10.4364	40.3679	401.5711	78.9893	15.1224	1.0691
Base	23	53	VB245CORTY Min	-0.8613	-47.6797	320.0738	-68.8531	-4.7215	-1.0823
Base	23	53	VB247CORTX Max	21.6025	3.2173	278.2141	87.513	36.33	3.6399
Base	23	53	VB247CORTX Min	-16.8067	-52.9464	191.3682	-6.4233	-31.0926	-3.6617
Base	23	53	VB247CORTY Max	8.0467	19.1592	275.5398	114.4661	12.5406	1.0648
Base	23	53	VB247CORTY Min	-3.251	-68.8884	194.0425	-33.3763	-7.3032	-1.0866
Base	23	53	CB241	3.3294	-2.676	322.9974	3.7768	3.6148	-0.0075
Base	23	53	CB242	6.1449	-27.5985	441.3055	44.2614	6.6907	-0.013
Base	23	53	CB243	4.5941	-3.5953	370.2707	4.9975	4.9899	-0.0077
Base	23	53	CB244	4.7271	-3.637	363.775	5.046	5.1346	-0.0069
Base	23	53	CB245VX Max	15.2372	16.9886	388.6462	39.6403	23.5444	1.9802
Base	23	53	CB245VX Min	-5.6621	-24.3004	332.9986	-29.5042	-13.1435	-1.9933
Base	23	53	CB245VY Max	10.4927	22.5683	387.7102	49.0739	15.2181	1.0789
Base	23	53	CB245VY Min	-0.9176	-29.8801	333.9347	-38.9377	-4.8173	-1.092
Base	23	53	CB246POS	2.3979	-24.8646	234.7912	40.5449	2.6187	-0.0109
Base	23	53	CB247VX Max	12.8475	-4.2201	262.615	75.1171	20.9627	1.9759
Base	23	53	CB247VX Min	-8.0518	-45.5091	206.9674	5.9726	-15.7253	-1.9977
Base	23	53	CB247VY Max	8.103	1.3596	261.6789	84.5507	12.6364	1.0746
Base	23	53	CB247VY Min	-3.3072	-51.0888	207.9034	-3.4609	-7.399	-1.0964
Base	23	53	CB245VCORTX Max	36.1364	58.2776	444.2938	108.7849	60.2323	5.9537
Base	23	53	CB245VCORTX Min	-26.5613	-65.5894	277.3511	-98.6487	-49.8315	-5.9669
Base	23	53	CB245VCORTY Max	21.9029	75.0167	441.4857	137.0856	35.2534	3.2498
Base	23	53	CB245VCORTY Min	-12.3278	-82.3284	280.1591	-126.9494	-24.8526	-3.263
Base	23	53	CB247VCORTX Max	33.7467	37.0689	318.2625	144.2617	57.6506	5.9494

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	23	53	CB247VCORTX Min	-28.951	-86.7981	151.3198	-63.1719	-52.4132	-5.9712
Base	23	53	CB247VCORTY Max	19.5132	53.808	315.4545	172.5624	32.6717	3.2455
Base	23	53	CB247VCORTY Min	-14.7175	-103.5371	154.1279	-91.4726	-27.4343	-3.2673
Base	23	53	B231	2.3782	-1.9114	230.7124	2.6977	2.582	-0.0054
Base	23	53	B232	4.3119	-3.2736	314.6799	4.5285	4.684	-0.0055
Base	23	53	B233	2.2572	-1.8736	236.6176	2.6536	2.4504	-0.0061
Base	23	53	B234	4.191	-3.2358	320.5851	4.4844	4.5524	-0.0062
Base	23	53	B235POS	2.3782	-1.9114	230.7124	2.6977	2.582	-0.0054
Base	23	53	B235NEG	2.3782	-1.9114	230.7124	2.6977	2.582	-0.0054
Base	23	53	B236X Max	9.0998	7.9172	245.9105	19.1366	14.381	1.2724
Base	23	53	B236X Min	-4.3435	-11.7401	215.5144	-13.7411	-9.2169	-1.2832
Base	23	53	B236Y Max	4.3553	13.4969	244.9745	28.5702	6.0547	0.3711
Base	23	53	B236Y Min	0.4011	-17.3198	216.4504	-23.1747	-0.8906	-0.3819
Base	23	53	B237POS	3.7378	-2.9047	298.1169	4.0378	4.0598	-0.006
Base	23	53	B238X Max	8.779	4.4668	309.5155	16.3669	12.909	0.9524
Base	23	53	B238X Min	-1.3034	-10.2762	286.7184	-8.2914	-4.7894	-0.9643
Base	23	53	B238Y Max	5.2206	8.6516	308.8134	23.4421	6.6643	0.2764
Base	23	53	B238Y Min	2.255	-14.4609	287.4204	-15.3665	1.4553	-0.2884
Base	23	53	B239POS	1.4269	-1.1469	138.4275	1.6186	1.5492	-0.0032
Base	23	53	B23-10X Max	8.1485	8.6818	153.6255	18.0575	13.3482	1.2746
Base	23	53	B23-10X Min	-5.2947	-10.9755	123.2294	-14.8202	-10.2498	-1.281
Base	23	53	B23-10Y Max	3.404	14.2615	152.6895	27.4911	5.0219	0.3733
Base	23	53	B23-10Y Min	-0.5502	-16.5552	124.1654	-24.2538	-1.9235	-0.3797
Base	23	53	B237NEG	3.7378	-2.9047	298.1169	4.0378	4.0598	-0.006
Base	23	53	B239NEG	1.4269	-1.1469	138.4275	1.6186	1.5492	-0.0032
Base	23	53	VB244NEG	4.7271	-3.637	363.775	5.046	5.1346	-0.0069
Base	23	53	VB246NEG	2.3979	-24.8646	234.7912	40.5449	2.6187	-0.0109
Base	23	53	CB246NEG	2.1403	-1.7203	207.6412	2.428	2.3238	-0.0048
Base	23	53	C1	3.8051	-3.0583	369.1399	4.3164	4.1312	-0.0086
Base	23	53	C2	6.4113	-4.9274	475.7809	6.8142	6.9645	-0.0089
Base	23	53	C3	5.0235	-22.2176	379.005	35.6131	5.4691	-0.0115
Base	23	53	C4	2.3496	-20.525	229.7006	33.398	2.5634	-0.0098
Base	24	55	DEAD	-5.6979	-1.9925	181.5235	2.7864	-6.2096	0.0115
Base	24	55	LR	0.1687	0.0174	6.728	-0.0221	0.1812	0.0015
Base	24	55	LIVE	-4.0216	-1.2349	45.8418	1.6935	-4.3693	0.0003
Base	24	55	1/RX Max	6.3778	25.7358	18.5291	43.608	13.1072	1.8154
Base	24	55	1/RX Min	-6.3778	-25.7358	-18.5291	-43.608	-13.1072	-1.8154
Base	24	55	1/RY Max	2.0898	22.0988	7.5345	37.6268	3.9862	0.5348
Base	24	55	1/RY Min	-2.0898	-22.0988	-7.5345	-37.6268	-3.9862	-0.5348
Base	24	55	1OMEG/RX Max	19.1334	77.2074	55.5873	130.824	39.3216	5.4461
Base	24	55	1OMEG/RX Min	-19.1334	-77.2074	-55.5873	-130.824	-39.3216	-5.4461
Base	24	55	1OMEG/RY Max	6.2695	66.2963	22.6034	112.8803	11.9585	1.6045
Base	24	55	1OMEG/RY Min	-6.2695	-66.2963	-22.6034	-112.8803	-11.9585	-1.6045
Base	24	55	VB241	-7.977	-2.7895	254.1329	3.9009	-8.6934	0.0161
Base	24	55	VB242	-13.9248	-26.9027	307.2853	43.5131	-15.1332	0.018

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	24	55	VB243	-10.5892	-3.5981	274.4348	5.0017	-11.5309	0.0165
Base	24	55	VB244POS	-10.7747	-3.6172	267.034	5.0261	-11.7302	0.0148
Base	24	55	VB245X Max	-4.4813	22.1099	282.1991	48.6451	1.2864	1.8294
Base	24	55	VB245X Min	-17.2369	-29.3617	245.1409	-38.5709	-24.928	-1.8013
Base	24	55	VB245Y Max	-8.7692	18.4728	271.2045	42.6639	-7.8346	0.5489
Base	24	55	VB245Y Min	-12.9489	-25.7247	256.1355	-32.5897	-15.807	-0.5208
Base	24	55	VB246POS	-5.1281	-1.7932	163.3711	2.5077	-5.5886	0.0103
Base	24	55	VB247X Max	0.5126	1.3981	194.6464	83.5867	6.7371	1.8286
Base	24	55	VB247X Min	-12.243	-50.0735	157.5882	-3.6293	-19.4773	-1.8021
Base	24	55	VB247Y Max	-3.7753	-2.2389	183.6518	77.6054	-2.3839	0.5481
Base	24	55	VB247Y Min	-7.955	-46.4365	168.5828	2.3519	-10.3562	-0.5216
Base	24	55	VB245CORTX Max	1.8966	47.8457	300.7282	92.2531	14.3936	3.6448
Base	24	55	VB245CORTX Min	-23.6147	-55.0976	226.6118	-82.1789	-38.0352	-3.6166
Base	24	55	VB245CORTY Max	-6.6794	40.5716	278.7389	80.2907	-3.8485	1.0838
Base	24	55	VB245CORTY Min	-15.0387	-47.8235	248.601	-70.2164	-19.7931	-1.0556
Base	24	55	VB247CORTX Max	6.8905	27.1339	213.1755	127.1946	19.8443	3.644
Base	24	55	VB247CORTX Min	-18.6208	-75.8093	139.0591	-47.2373	-32.5844	-3.6174
Base	24	55	VB247CORTY Max	-1.6855	19.8598	191.1862	115.2322	1.6023	1.083
Base	24	55	VB247CORTY Min	-10.0448	-68.5352	161.0484	-35.2749	-14.3424	-1.0564
Base	24	55	CB241	-7.977	-2.7895	254.1329	3.9009	-8.6934	0.0161
Base	24	55	CB242	-13.9248	-26.9027	307.2853	43.5131	-15.1332	0.018
Base	24	55	CB243	-10.5892	-3.5981	274.4348	5.0017	-11.5309	0.0165
Base	24	55	CB244	-10.7747	-3.6172	267.034	5.0261	-11.7302	0.0148
Base	24	55	CB245VX Max	-3.8543	28.7395	284.4594	59.9331	2.4822	1.9899
Base	24	55	CB245VX Min	-17.8638	-35.9914	242.8805	-49.8589	-26.1238	-1.9617
Base	24	55	CB245VY Max	-6.8559	26.1936	276.7632	55.7463	-3.9025	1.0935
Base	24	55	CB245VY Min	-14.8622	-33.4454	250.5768	-45.672	-19.7391	-1.0654
Base	24	55	CB246POS	-5.8652	-24.3377	176.1173	39.9787	-6.3701	0.0133
Base	24	55	CB247VX Max	1.1396	8.0277	196.9068	94.8747	7.933	1.9891
Base	24	55	CB247VX Min	-12.8699	-56.7031	155.3279	-14.9174	-20.6731	-1.9625
Base	24	55	CB247VY Max	-1.862	5.4818	189.2105	90.6878	1.5483	1.0927
Base	24	55	CB247VY Min	-9.8684	-54.1572	163.0241	-10.7305	-14.2884	-1.0662
Base	24	55	CB245VCORTX Max	10.1552	93.4704	326.0384	169.7252	31.0883	5.9415
Base	24	55	CB245VCORTX Min	-31.8734	-100.7222	201.3016	-159.651	-54.7299	-5.9134
Base	24	55	CB245VCORTY Max	1.1505	85.8326	302.9496	157.1646	11.9342	3.2524
Base	24	55	CB245VCORTY Min	-22.8686	-93.0844	224.3904	-147.0904	-35.5757	-3.2243
Base	24	55	CB247VCORTX Max	15.1491	72.7586	238.4857	204.6667	36.5391	5.9407
Base	24	55	CB247VCORTX Min	-26.8795	-121.434	113.7489	-124.7094	-49.2792	-5.9141
Base	24	55	CB247VCORTY Max	6.1444	65.1208	215.3969	192.1062	17.3849	3.2517
Base	24	55	CB247VCORTY Min	-17.8747	-113.7962	136.8377	-112.1488	-30.125	-3.2251
Base	24	55	B231	-5.6979	-1.9925	181.5235	2.7864	-6.2096	0.0115
Base	24	55	B232	-9.7195	-3.2274	227.3653	4.4799	-10.5789	0.0118
Base	24	55	B233	-5.5292	-1.9751	188.2515	2.7642	-6.0284	0.013
Base	24	55	B234	-9.5508	-3.21	234.0933	4.4577	-10.3977	0.0133
Base	24	55	B235POS	-5.6979	-1.9925	181.5235	2.7864	-6.2096	0.0115

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	24	55	B235NEG	-5.6979	-1.9925	181.5235	2.7864	-6.2096	0.0115
Base	24	55	B236X Max	-1.2334	16.0226	194.4938	33.3119	2.9655	1.2822
Base	24	55	B236X Min	-10.1624	-20.0076	168.5531	-27.7392	-15.3846	-1.2593
Base	24	55	B236Y Max	-4.235	13.4766	186.7976	29.1251	-3.4193	0.3859
Base	24	55	B236Y Min	-7.1608	-17.4616	176.2493	-23.5524	-8.9999	-0.3629
Base	24	55	B237POS	-8.5876	-2.9057	220.9508	4.0399	-9.3506	0.0129
Base	24	55	B238X Max	-5.2392	10.6056	230.6786	26.9341	-2.4694	0.9659
Base	24	55	B238X Min	-11.9359	-16.417	211.2231	-18.8543	-16.2319	-0.9402
Base	24	55	B238Y Max	-7.4904	8.6962	224.9064	23.7939	-7.2579	0.2937
Base	24	55	B238Y Min	-9.6847	-14.5075	216.9952	-15.7142	-11.4434	-0.2679
Base	24	55	B239POS	-3.4187	-1.1955	108.9141	1.6718	-3.7257	0.0069
Base	24	55	B23-10X Max	1.0457	16.8196	121.8845	32.1974	5.4493	1.2776
Base	24	55	B23-10X Min	-7.8832	-19.2106	95.9437	-28.8538	-12.9008	-1.2639
Base	24	55	B23-10Y Max	-1.9558	14.2736	114.1882	28.0105	-0.9354	0.3813
Base	24	55	B23-10Y Min	-4.8816	-16.6646	103.64	-24.6669	-6.516	-0.3675
Base	24	55	B237NEG	-8.5876	-2.9057	220.9508	4.0399	-9.3506	0.0129
Base	24	55	B239NEG	-3.4187	-1.1955	108.9141	1.6718	-3.7257	0.0069
Base	24	55	VB244NEG	-10.7747	-3.6172	267.034	5.0261	-11.7302	0.0148
Base	24	55	VB246NEG	-5.8652	-24.3377	176.1173	39.9787	-6.3701	0.0133
Base	24	55	CB246NEG	-5.1281	-1.7932	163.3711	2.5077	-5.5886	0.0103
Base	24	55	C1	-9.1166	-3.188	290.4376	4.4582	-9.9353	0.0184
Base	24	55	C2	-14.527	-4.8593	343.5016	6.7422	-15.8132	0.0192
Base	24	55	C3	-11.5042	-21.6861	268.086	35.0418	-12.506	0.0168
Base	24	55	C4	-5.727	-20.1106	173.7274	32.9529	-6.2235	0.0127
Base	25	59	DEAD	7.4317	1.2773	153.4222	-0.7358	8.0704	0.0083
Base	25	59	LR	-0.0312	-0.018	2.3465	0.0191	-0.0339	0.0005
Base	25	59	LIVE	4.367	0.8825	43.0348	-0.6077	4.7423	0.0011
Base	25	59	1/RX Max	14.1649	26.2036	12.6623	45.6204	26.4324	1.7606
Base	25	59	1/RX Min	-14.1649	-26.2036	-12.6623	-45.6204	-26.4324	-1.7606
Base	25	59	1/RY Max	4.1311	20.6714	14.2728	36.3557	7.7542	0.5197
Base	25	59	1/RY Min	-4.1311	-20.6714	-14.2728	-36.3557	-7.7542	-0.5197
Base	25	59	1OMEG/RX Max	42.4946	78.6107	37.987	136.8611	79.2972	5.2819
Base	25	59	1OMEG/RX Min	-42.4946	-78.6107	-37.987	-136.8611	-79.2972	-5.2819
Base	25	59	1OMEG/RY Max	12.3933	62.0142	42.8183	109.0671	23.2626	1.559
Base	25	59	1OMEG/RY Min	-12.3933	-62.0142	-42.8183	-109.0671	-23.2626	-1.559
Base	25	59	VB241	10.4044	1.7882	214.7911	-1.0302	11.2986	0.0117
Base	25	59	VB242	15.9985	-17.5087	255.6892	33.0621	17.4446	-0.0171
Base	25	59	VB243	13.2351	2.3865	230.8959	-1.4602	14.3726	0.012
Base	25	59	VB244POS	13.2694	2.4063	228.3147	-1.4812	14.4099	0.0114
Base	25	59	VB245X Max	27.4499	28.6188	239.8038	44.1296	40.8592	1.7718
Base	25	59	VB245X Min	-0.8799	-23.7883	214.4792	-47.1111	-12.0056	-1.7495
Base	25	59	VB245Y Max	17.4161	23.0867	241.4143	34.865	22.181	0.5308
Base	25	59	VB245Y Min	9.1539	-18.2561	212.8687	-37.8464	6.6726	-0.5085
Base	25	59	VB246POS	6.6885	1.1496	138.08	-0.6622	7.2634	0.0075
Base	25	59	VB247X Max	20.9623	6.9087	152.2959	79.866	33.8851	1.739

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	25	59	VB247X Min	-7.3674	-45.4985	126.9712	-11.3747	-18.9797	-1.7823
Base	25	59	VB247Y Max	10.9285	1.3765	153.9063	70.6013	15.2069	0.498
Base	25	59	VB247Y Min	2.6663	-39.9663	125.3608	-2.1101	-0.3015	-0.5413
Base	25	59	VB245CORTX Max	41.6148	54.8224	252.4661	89.75	67.2916	3.5324
Base	25	59	VB245CORTX Min	-15.0447	-49.9919	201.8168	-92.7314	-38.438	-3.5101
Base	25	59	VB245CORTY Max	21.5472	43.7581	255.687	71.2207	29.9353	1.0505
Base	25	59	VB245CORTY Min	5.0228	-38.9276	198.596	-74.2021	-1.0816	-1.0282
Base	25	59	VB247CORTX Max	35.1272	33.1122	164.9582	125.4863	60.3175	3.4996
Base	25	59	VB247CORTX Min	-21.5323	-71.7021	114.3089	-56.9951	-45.4121	-3.5429
Base	25	59	VB247CORTY Max	15.0596	22.0479	168.1791	106.957	22.9611	1.0177
Base	25	59	VB247CORTY Min	-1.4647	-60.6377	111.088	-38.4658	-8.0557	-1.061
Base	25	59	CB241	10.4044	1.7882	214.7911	-1.0302	11.2986	0.0117
Base	25	59	CB242	15.9985	-17.5087	255.6892	33.0621	17.4446	-0.0171
Base	25	59	CB243	13.2351	2.3865	230.8959	-1.4602	14.3726	0.012
Base	25	59	CB244	13.2694	2.4063	228.3147	-1.4812	14.4099	0.0114
Base	25	59	CB245VX Max	28.6892	34.8203	244.0856	55.0364	43.1855	1.9277
Base	25	59	CB245VX Min	-2.1192	-29.9897	210.1973	-58.0178	-14.3318	-1.9054
Base	25	59	CB245VY Max	21.6656	30.9477	245.213	48.5511	30.1108	1.059
Base	25	59	CB245VY Min	4.9045	-26.1172	209.07	-51.5325	-1.2571	-1.0367
Base	25	59	CB246POS	6.7974	-19.2949	139.6335	34.2456	7.4527	-0.0217
Base	25	59	CB247VX Max	22.2016	13.1101	156.5777	90.7727	36.2114	1.8949
Base	25	59	CB247VX Min	-8.6068	-51.6999	122.6894	-22.2815	-21.306	-1.9382
Base	25	59	CB247VY Max	15.178	9.2376	157.705	84.2874	23.1366	1.0262
Base	25	59	CB247VY Min	-1.5831	-47.8274	121.5621	-15.7962	-8.2312	-1.0695
Base	25	59	CB245VCORTX Max	59.4976	99.6303	277.974	168.0905	100.7028	5.7607
Base	25	59	CB245VCORTX Min	-32.9276	-94.7997	176.309	-171.0719	-71.8492	-5.7384
Base	25	59	CB245VCORTY Max	38.4267	88.0127	281.3559	148.6348	61.4786	3.1547
Base	25	59	CB245VCORTY Min	-11.8566	-83.1822	172.9271	-151.6162	-32.625	-3.1324
Base	25	59	CB247VCORTX Max	53.01	77.9201	190.466	203.8268	93.7287	5.7279
Base	25	59	CB247VCORTX Min	-39.4152	-116.5099	88.8011	-135.3356	-78.8233	-5.7712
Base	25	59	CB247VCORTY Max	31.9391	66.3025	193.848	184.3711	54.5045	3.1219
Base	25	59	CB247VCORTY Min	-18.3442	-104.8923	85.4191	-115.8798	-39.5991	-3.1652
Base	25	59	B231	7.4317	1.2773	153.4222	-0.7358	8.0704	0.0083
Base	25	59	B232	11.7987	2.1598	196.457	-1.3435	12.8127	0.0095
Base	25	59	B233	7.4005	1.2593	155.7687	-0.7168	8.0366	0.0089
Base	25	59	B234	11.7675	2.1418	198.8036	-1.3245	12.7789	0.01
Base	25	59	B235POS	7.4317	1.2773	153.4222	-0.7358	8.0704	0.0083
Base	25	59	B235NEG	7.4317	1.2773	153.4222	-0.7358	8.0704	0.0083
Base	25	59	B236X Max	17.3471	19.6198	162.2858	31.1984	26.5731	1.2408
Base	25	59	B236X Min	-2.4837	-17.0652	144.5586	-32.6701	-10.4322	-1.2241
Base	25	59	B236Y Max	10.3235	15.7473	163.4132	24.7132	13.4984	0.3721
Base	25	59	B236Y Min	4.54	-13.1927	143.4313	-26.1848	2.6425	-0.3554
Base	25	59	B237POS	10.6836	1.9257	187.4582	-1.1773	11.6018	0.0096
Base	25	59	B238X Max	18.1201	15.6826	194.1059	22.7734	25.4788	0.9339
Base	25	59	B238X Min	3.247	-11.8312	180.8105	-25.128	-2.2752	-0.9147

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	25	59	B238Y Max	12.8524	12.7782	194.9514	17.9094	15.6727	0.2824
Base	25	59	B238Y Min	8.5147	-8.9268	179.965	-20.2641	7.5308	-0.2632
Base	25	59	B239POS	4.459	0.7664	92.0533	-0.4415	4.8423	0.005
Base	25	59	B23-10X Max	14.3744	19.1089	100.917	31.4928	23.3449	1.2374
Base	25	59	B23-10X Min	-5.4564	-17.5761	83.1897	-32.3757	-13.6604	-1.2274
Base	25	59	B23-10Y Max	7.3508	15.2364	102.0443	25.0075	10.2702	0.3688
Base	25	59	B23-10Y Min	1.5673	-13.7036	82.0624	-25.8905	-0.5857	-0.3588
Base	25	59	B237NEG	10.6836	1.9257	187.4582	-1.1773	11.6018	0.0096
Base	25	59	B239NEG	4.459	0.7664	92.0533	-0.4415	4.8423	0.005
Base	25	59	VB244NEG	13.2694	2.4063	228.3147	-1.4812	14.4099	0.0114
Base	25	59	VB246NEG	6.7974	-19.2949	139.6335	34.2456	7.4527	-0.0217
Base	25	59	CB246NEG	6.6885	1.1496	138.08	-0.6622	7.2634	0.0075
Base	25	59	C1	11.8907	2.0437	245.4756	-1.1773	12.9127	0.0134
Base	25	59	C2	17.7752	3.2579	291.9394	-2.0308	19.3029	0.0145
Base	25	59	C3	13.4402	-13.9078	220.4243	26.4002	14.6522	-0.0124
Base	25	59	C4	6.777	-15.4616	139.3423	27.7004	7.4172	-0.0162
Base	26	61	DEAD	-3.3752	1.3033	265.4877	-0.7868	-3.6735	0.0055
Base	26	61	LR	0.0223	-0.0487	6.4576	0.0511	0.0239	0.0005
Base	26	61	LIVE	-2.0142	1.1213	95.9106	-0.8715	-2.1902	0.0004
Base	26	61	1/RX Max	16.9517	15.2886	24.0772	26.3908	29.5763	1.7744
Base	26	61	1/RX Min	-16.9517	-15.2886	-24.0772	-26.3908	-29.5763	-1.7744
Base	26	61	1/RY Max	4.9756	20.2078	14.6565	35.2019	8.6848	0.5233
Base	26	61	1/RY Min	-4.9756	-20.2078	-14.6565	-35.2019	-8.6848	-0.5233
Base	26	61	1OMEG/RX Max	50.8551	45.8657	72.2315	79.1724	88.7289	5.3232
Base	26	61	1OMEG/RX Min	-50.8551	-45.8657	-72.2315	-79.1724	-88.7289	-5.3232
Base	26	61	1OMEG/RY Max	14.9269	60.6235	43.9695	105.6056	26.0545	1.5698
Base	26	61	1OMEG/RY Min	-14.9269	-60.6235	-43.9695	-105.6056	-26.0545	-1.5698
Base	26	61	VB241	-4.7253	1.8246	371.6828	-1.1015	-5.1429	0.0077
Base	26	61	VB242	-7.1389	-17.7996	474.1539	33.4523	-7.7023	-0.0141
Base	26	61	VB243	-6.0288	2.6074	424.828	-1.7339	-6.5601	0.0077
Base	26	61	VB244POS	-6.0533	2.6609	417.7246	-1.7901	-6.5864	0.0072
Base	26	61	VB245X Max	10.8872	17.9738	438.573	24.5751	22.9779	1.7814
Base	26	61	VB245X Min	-23.0162	-12.6033	390.4187	-28.2065	-36.1747	-1.7674
Base	26	61	VB245Y Max	-1.0888	22.8931	429.1523	33.3862	2.0865	0.5302
Base	26	61	VB245Y Min	-11.0401	-17.5225	399.8393	-37.0175	-15.2832	-0.5163
Base	26	61	VB246POS	-3.0377	1.173	238.939	-0.7081	-3.3061	0.0049
Base	26	61	VB247X Max	14.037	-4.6718	261.8991	61.448	26.4684	1.7579
Base	26	61	VB247X Min	-19.8664	-35.2489	213.7448	8.6663	-32.6841	-1.791
Base	26	61	VB247Y Max	2.0609	0.2475	252.4784	70.259	5.577	0.5067
Base	26	61	VB247Y Min	-7.8903	-40.1682	223.1654	-0.1447	-11.7927	-0.5398
Base	26	61	VB245CORTX Max	27.8389	33.2624	462.6502	50.966	52.5542	3.5558
Base	26	61	VB245CORTX Min	-39.9679	-27.8918	366.3415	-54.5973	-65.7509	-3.5419
Base	26	61	VB245CORTY Max	3.8868	43.1009	443.8088	68.5881	10.7713	1.0535
Base	26	61	VB245CORTY Min	-16.0158	-37.7304	385.1829	-72.2194	-23.968	-1.0395
Base	26	61	VB247CORTX Max	30.9887	10.6167	285.9762	87.8388	56.0447	3.5323

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	26	61	VB247CORTX Min	-36.8181	-50.5375	189.6676	-17.7245	-62.2604	-3.5654
Base	26	61	VB247CORTY Max	7.0366	20.4553	267.1349	105.4609	14.2618	1.03
Base	26	61	VB247CORTY Min	-12.866	-60.376	208.5089	-35.3466	-20.4775	-1.0631
Base	26	61	CB241	-4.7253	1.8246	371.6828	-1.1015	-5.1429	0.0077
Base	26	61	CB242	-7.1389	-17.7996	474.1539	33.4523	-7.7023	-0.0141
Base	26	61	CB243	-6.0288	2.6074	424.828	-1.7339	-6.5601	0.0077
Base	26	61	CB244	-6.0533	2.6609	417.7246	-1.7901	-6.5864	0.0072
Base	26	61	CB245VX Max	12.3799	24.0362	442.9699	35.1357	25.5834	1.9384
Base	26	61	CB245VX Min	-24.5089	-18.6656	386.0217	-38.767	-38.7801	-1.9244
Base	26	61	CB245VY Max	3.9967	27.4797	436.3755	41.3035	10.9593	1.0626
Base	26	61	CB245VY Min	-16.1256	-22.1091	392.6162	-44.9348	-24.1561	-1.0486
Base	26	61	CB246POS	-2.9147	-19.9604	237.8219	35.0571	-3.1078	-0.0166
Base	26	61	CB247VX Max	15.5297	1.3905	266.296	72.0085	29.0739	1.9148
Base	26	61	CB247VX Min	-21.3591	-41.3113	209.3478	-1.8942	-35.2896	-1.9479
Base	26	61	CB247VY Max	7.1464	4.834	259.7016	78.1763	14.4499	1.039
Base	26	61	CB247VY Min	-12.9759	-44.7548	215.9423	-8.062	-20.6656	-1.0721
Base	26	61	CB245VCORTX Max	49.2687	66.738	499.9182	109.0384	89.9469	5.8011
Base	26	61	CB245VCORTX Min	-61.3977	-61.3674	329.0735	-112.6698	-103.1436	-5.7872
Base	26	61	CB245VCORTY Max	24.119	77.0684	480.1348	127.5417	46.0748	3.1737
Base	26	61	CB245VCORTY Min	-36.2479	-71.6979	348.8569	-131.173	-59.2715	-3.1598
Base	26	61	CB247VCORTX Max	52.4185	44.0923	323.2442	145.9112	93.4374	5.7776
Base	26	61	CB247VCORTX Min	-58.2479	-84.0131	152.3996	-75.797	-99.6531	-5.8107
Base	26	61	CB247VCORTY Max	27.2687	54.4228	303.4609	164.4145	49.5653	3.1502
Base	26	61	CB247VCORTY Min	-33.0982	-94.3435	172.183	-94.3002	-55.781	-3.1833
Base	26	61	B231	-3.3752	1.3033	265.4877	-0.7868	-3.6735	0.0055
Base	26	61	B232	-5.3894	2.4246	361.3983	-1.6583	-5.8637	0.0059
Base	26	61	B233	-3.3529	1.2546	271.9453	-0.7357	-3.6496	0.0059
Base	26	61	B234	-5.3671	2.3759	367.8559	-1.6072	-5.8398	0.0063
Base	26	61	B235POS	-3.3752	1.3033	265.4877	-0.7868	-3.6735	0.0055
Base	26	61	B235NEG	-3.3752	1.3033	265.4877	-0.7868	-3.6735	0.0055
Base	26	61	B236X Max	8.491	12.0053	282.3417	17.6868	17.0299	1.2476
Base	26	61	B236X Min	-15.2414	-9.3987	248.6337	-19.2604	-24.3769	-1.2366
Base	26	61	B236Y Max	0.1077	15.4488	275.7473	23.8545	2.4059	0.3718
Base	26	61	B236Y Min	-6.8582	-12.8422	255.2282	-25.4281	-9.7528	-0.3608
Base	26	61	B237POS	-4.8692	2.1078	342.2639	-1.4021	-5.2982	0.0061
Base	26	61	B238X Max	4.0305	10.1343	354.9044	12.4531	10.2293	0.9377
Base	26	61	B238X Min	-13.7688	-5.9187	329.6233	-15.2573	-20.8258	-0.9254
Base	26	61	B238Y Max	-2.2569	12.7169	349.9585	17.0789	-0.7387	0.2808
Base	26	61	B238Y Min	-7.4814	-8.5013	334.5692	-19.8831	-9.8577	-0.2686
Base	26	61	B239POS	-2.0251	0.782	159.2926	-0.4721	-2.2041	0.0033
Base	26	61	B23-10X Max	9.8411	11.484	176.1467	18.0015	18.4993	1.2454
Base	26	61	B23-10X Min	-13.8913	-9.92	142.4386	-18.9456	-22.9075	-1.2388
Base	26	61	B23-10Y Max	1.4578	14.9275	169.5522	24.1692	3.8753	0.3696
Base	26	61	B23-10Y Min	-5.5081	-13.3635	149.0331	-25.1134	-8.2835	-0.363
Base	26	61	B237NEG	-4.8692	2.1078	342.2639	-1.4021	-5.2982	0.0061

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	26	61	B239NEG	-2.0251	0.782	159.2926	-0.4721	-2.2041	0.0033
Base	26	61	VB244NEG	-6.0533	2.6609	417.7246	-1.7901	-6.5864	0.0072
Base	26	61	VB246NEG	-2.9147	-19.9604	237.8219	35.0571	-3.1078	-0.0166
Base	26	61	CB246NEG	-3.0377	1.173	238.939	-0.7081	-3.3061	0.0049
Base	26	61	C1	-5.4004	2.0853	424.7804	-1.2589	-5.8776	0.0088
Base	26	61	C2	-8.1116	3.6481	545.7087	-2.4961	-8.8256	0.0091
Base	26	61	C3	-5.9952	-14.1652	408.8997	26.736	-6.4714	-0.0104
Base	26	61	C4	-2.9378	-15.9979	238.0314	28.3512	-3.145	-0.0125
Base	27	63	DEAD	1.4828	1.2403	232.4439	-0.7293	1.6067	-0.0022
Base	27	63	LR	-0.02	-0.1158	6.5283	0.1232	-0.0221	-0.0005
Base	27	63	LIVE	1.0676	1.1375	79.7121	-0.8902	1.1599	0.0001
Base	27	63	1/RX Max	16.6292	9.4094	17.4888	16.3576	29.2124	1.7871
Base	27	63	1/RX Min	-16.6292	-9.4094	-17.4888	-16.3576	-29.2124	-1.7871
Base	27	63	1/RY Max	4.8802	19.7855	9.9143	34.528	8.5788	0.5272
Base	27	63	1/RY Min	-4.8802	-19.7855	-9.9143	-34.528	-8.5788	-0.5272
Base	27	63	1OMEG/RX Max	49.8877	28.2282	52.4663	49.0727	87.6373	5.3613
Base	27	63	1OMEG/RX Min	-49.8877	-28.2282	-52.4663	-49.0727	-87.6373	-5.3613
Base	27	63	1OMEG/RY Max	14.6407	59.3566	29.7428	103.584	25.7365	1.5816
Base	27	63	1OMEG/RY Min	-14.6407	-59.3566	-29.7428	-103.584	-25.7365	-1.5816
Base	27	63	VB241	2.0759	1.7364	325.4215	-1.0211	2.2493	-0.003
Base	27	63	VB242	3.5996	-17.9566	412.4292	33.6591	3.9624	-0.0217
Base	27	63	VB243	2.815	2.4406	369.0901	-1.5683	3.0525	-0.0033
Base	27	63	VB244POS	2.837	2.5679	361.909	-1.7038	3.0769	-0.0027
Base	27	63	VB245X Max	19.4762	12.0352	376.1336	14.5922	32.3004	1.7846
Base	27	63	VB245X Min	-13.7823	-6.7836	341.156	-18.1229	-26.1245	-1.7896
Base	27	63	VB245Y Max	7.7272	22.4114	368.5591	32.7626	11.6667	0.5247
Base	27	63	VB245Y Min	-2.0333	-17.1597	348.7306	-36.2934	-5.4909	-0.5297
Base	27	63	VB246POS	1.3345	1.1163	209.1995	-0.6564	1.446	-0.002
Base	27	63	VB247X Max	18.0858	-10.6813	229.3813	51.5982	30.848	1.7661
Base	27	63	VB247X Min	-15.1727	-29.5001	194.4037	18.8831	-27.5769	-1.8081
Base	27	63	VB247Y Max	6.3368	-0.3052	221.8067	69.7686	10.2144	0.5062
Base	27	63	VB247Y Min	-3.4237	-39.8762	201.9782	0.7126	-6.9432	-0.5482
Base	27	63	VB245CORTX Max	36.1054	21.4447	393.6224	30.9497	61.5128	3.5717
Base	27	63	VB245CORTX Min	-30.4115	-16.193	323.6673	-34.4805	-55.337	-3.5767
Base	27	63	VB245CORTY Max	12.6074	42.1969	378.4733	67.2906	20.2456	1.0519
Base	27	63	VB245CORTY Min	-6.9135	-36.9452	338.8163	-70.8214	-14.0697	-1.0569
Base	27	63	VB247CORTX Max	34.7151	-1.2719	246.87	67.9557	60.0605	3.5532
Base	27	63	VB247CORTX Min	-31.8019	-38.9095	176.9149	2.5255	-56.7893	-3.5952
Base	27	63	VB247CORTY Max	11.2171	19.4803	231.721	104.2966	18.7932	1.0334
Base	27	63	VB247CORTY Min	-8.3039	-59.6618	192.064	-33.8154	-15.5221	-1.0754
Base	27	63	CB241	2.0759	1.7364	325.4215	-1.0211	2.2493	-0.003
Base	27	63	CB242	3.5996	-17.9566	412.4292	33.6591	3.9624	-0.0217
Base	27	63	CB243	2.815	2.4406	369.0901	-1.5683	3.0525	-0.0033
Base	27	63	CB244	2.837	2.5679	361.909	-1.7038	3.0769	-0.0027
Base	27	63	CB245VX Max	20.9402	17.9709	379.1079	24.9506	34.874	1.9428

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	27	63	CB245VX Min	-15.2464	-12.7192	338.1818	-28.4813	-28.6982	-1.9478
Base	27	63	CB245VY Max	12.716	25.2342	373.8057	37.6699	20.4305	1.0608
Base	27	63	CB245VY Min	-7.0221	-19.9825	343.4839	-41.2007	-14.2546	-1.0658
Base	27	63	CB246POS	1.4566	-20.0907	211.8925	35.2406	1.6356	-0.021
Base	27	63	CB247VX Max	19.5499	-4.7457	232.3555	61.9566	33.4217	1.9242
Base	27	63	CB247VX Min	-16.6367	-35.4358	191.4294	8.5247	-30.1505	-1.9663
Base	27	63	CB247VY Max	11.3256	2.5176	227.0534	74.6759	18.9781	1.0423
Base	27	63	CB247VY Min	-8.4124	-42.6991	196.7316	-4.1947	-15.707	-1.0844
Base	27	63	CB245VCORTX Max	57.1269	48.661	420.034	78.3825	98.4462	5.8333
Base	27	63	CB245VCORTX Min	-51.433	-43.4094	297.2557	-81.9133	-92.2704	-5.8383
Base	27	63	CB245VCORTY Max	32.454	70.4509	404.1275	116.5404	55.1156	3.1875
Base	27	63	CB245VCORTY Min	-26.7601	-65.1992	313.1622	-120.0712	-48.9398	-3.1925
Base	27	63	CB247VCORTX Max	55.7365	25.9445	273.2816	115.3885	96.9939	5.8148
Base	27	63	CB247VCORTX Min	-52.8233	-66.1259	150.5033	-44.9073	-93.7227	-5.8568
Base	27	63	CB247VCORTY Max	31.0636	47.7343	257.3751	153.5464	53.6633	3.169
Base	27	63	CB247VCORTY Min	-28.1505	-87.9158	166.4098	-83.0652	-50.3921	-3.2111
Base	27	63	B231	1.4828	1.2403	232.4439	-0.7293	1.6067	-0.0022
Base	27	63	B232	2.5504	2.3778	312.156	-1.6195	2.7666	-0.0021
Base	27	63	B233	1.4628	1.1245	238.9723	-0.6061	1.5846	-0.0027
Base	27	63	B234	2.5304	2.262	318.6844	-1.4963	2.7445	-0.0025
Base	27	63	B235POS	1.4828	1.2403	232.4439	-0.7293	1.6067	-0.0022
Base	27	63	B235NEG	1.4828	1.2403	232.4439	-0.7293	1.6067	-0.0022
Base	27	63	B236X Max	13.1233	7.8269	244.6861	10.721	22.0554	1.2488
Base	27	63	B236X Min	-10.1577	-5.3463	220.2018	-12.1796	-18.8421	-1.2531
Base	27	63	B236Y Max	4.899	15.0902	239.3839	23.4403	7.6118	0.3669
Base	27	63	B236Y Min	-1.9334	-12.6096	225.504	-24.8989	-4.3985	-0.3712
Base	27	63	B237POS	2.2685	2.0066	297.1243	-1.3046	2.46	-0.0025
Base	27	63	B238X Max	10.9989	6.9465	306.3059	7.2831	17.7966	0.9358
Base	27	63	B238X Min	-6.4618	-2.9334	287.9426	-9.8923	-12.8765	-0.9407
Base	27	63	B238Y Max	4.8306	12.394	302.3292	16.8226	6.9639	0.2743
Base	27	63	B238Y Min	-0.2936	-8.3808	291.9193	-19.4318	-2.0439	-0.2792
Base	27	63	B239POS	0.8897	0.7442	139.4664	-0.4376	0.964	-0.0013
Base	27	63	B23-10X Max	12.5301	7.3308	151.7085	11.0127	21.4127	1.2497
Base	27	63	B23-10X Min	-10.7508	-5.8424	127.2242	-11.8879	-19.4847	-1.2523
Base	27	63	B23-10Y Max	4.3058	14.594	146.4063	23.732	6.9692	0.3677
Base	27	63	B23-10Y Min	-2.5265	-13.1057	132.5264	-24.6072	-5.0412	-0.3704
Base	27	63	B237NEG	2.2685	2.0066	297.1243	-1.3046	2.46	-0.0025
Base	27	63	B239NEG	0.8897	0.7442	139.4664	-0.4376	0.964	-0.0013
Base	27	63	VB244NEG	2.837	2.5679	361.909	-1.7038	3.0769	-0.0027
Base	27	63	VB246NEG	1.4566	-20.0907	211.8925	35.2406	1.6356	-0.021
Base	27	63	CB246NEG	1.3345	1.1163	209.1995	-0.6564	1.446	-0.002
Base	27	63	C1	2.3725	1.9845	371.9103	-1.1669	2.5707	-0.0035
Base	27	63	C2	3.8569	3.4733	472.0302	-2.325	4.1836	-0.0037
Base	27	63	C3	2.9956	-14.3555	356.6082	26.9701	3.2951	-0.018
Base	27	63	C4	1.4337	-16.1144	211.3876	28.5099	1.6	-0.0174

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	28	65	DEAD	-1.4029	1.8313	235.2737	-1.377	-1.5306	0.0003
Base	28	65	LR	0.0245	-0.0715	7.0897	0.0744	0.026	0.0003
Base	28	65	LIVE	-1.0639	1.3812	83.2863	-1.154	-1.1557	-0.0013
Base	28	65	1/RX Max	16.6936	8.0453	14.814	13.8601	29.2817	1.7913
Base	28	65	1/RX Min	-16.6936	-8.0453	-14.814	-13.8601	-29.2817	-1.7913
Base	28	65	1/RY Max	4.8986	20.3933	6.2886	35.0967	8.5995	0.5289
Base	28	65	1/RY Min	-4.8986	-20.3933	-6.2886	-35.0967	-8.5995	-0.5289
Base	28	65	1OMEG/RX Max	50.0809	24.1358	44.4421	41.5802	87.8452	5.374
Base	28	65	1OMEG/RX Min	-50.0809	-24.1358	-44.4421	-41.5802	-87.8452	-5.374
Base	28	65	1OMEG/RY Max	14.6959	61.1798	18.8657	105.2902	25.7986	1.5867
Base	28	65	1OMEG/RY Min	-14.6959	-61.1798	-18.8657	-105.2902	-25.7986	-1.5867
Base	28	65	VB241	-1.9641	2.5639	329.3832	-1.9278	-2.1429	0.0004
Base	28	65	VB242	-3.3194	-16.8844	421.3918	32.5422	-3.5614	-0.0115
Base	28	65	VB243	-2.7082	3.4643	376.9583	-2.6874	-2.9508	-0.0005
Base	28	65	VB244POS	-2.7352	3.543	369.1596	-2.7692	-2.9795	-0.0008
Base	28	65	VB245X Max	13.9462	11.624	380.4288	11.0537	26.2892	1.7904
Base	28	65	VB245X Min	-19.4411	-4.4665	350.8007	-16.6665	-32.2742	-1.7923
Base	28	65	VB245Y Max	2.1512	23.972	371.9033	32.2903	5.6071	0.5279
Base	28	65	VB245Y Min	-7.6461	-16.8145	359.3262	-37.9031	-11.592	-0.5298
Base	28	65	VB246POS	-1.2626	1.6482	211.7463	-1.2393	-1.3776	0.0003
Base	28	65	VB247X Max	15.4852	-11.5626	228.8208	48.6246	28.0157	1.7816
Base	28	65	VB247X Min	-17.9021	-27.6532	199.1927	20.9045	-30.5478	-1.8011
Base	28	65	VB247Y Max	3.6901	0.7854	220.2953	69.8613	7.3335	0.5192
Base	28	65	VB247Y Min	-6.1071	-40.0012	207.7181	-0.3322	-9.8656	-0.5386
Base	28	65	VB245CORTX Max	30.6398	19.6692	395.2428	24.9137	55.571	3.5817
Base	28	65	VB245CORTX Min	-36.1348	-12.5118	335.9867	-30.5265	-61.5559	-3.5836
Base	28	65	VB245CORTY Max	7.0498	44.3653	378.1919	67.3871	14.2066	1.0568
Base	28	65	VB245CORTY Min	-12.5447	-37.2078	353.0376	-72.9999	-20.1916	-1.0587
Base	28	65	VB247CORTX Max	32.1788	-3.5174	243.6348	62.4846	57.2974	3.573
Base	28	65	VB247CORTX Min	-34.5958	-35.6984	184.3786	7.0444	-59.8295	-3.5924
Base	28	65	VB247CORTY Max	8.5888	21.1786	226.5838	104.958	15.933	1.0481
Base	28	65	VB247CORTY Min	-11.0057	-60.3944	201.4296	-35.429	-18.4652	-1.0675
Base	28	65	CB241	-1.9641	2.5639	329.3832	-1.9278	-2.1429	0.0004
Base	28	65	CB242	-3.3194	-16.8844	421.3918	32.5422	-3.5614	-0.0115
Base	28	65	CB243	-2.7082	3.4643	376.9583	-2.6874	-2.9508	-0.0005
Base	28	65	CB244	-2.7352	3.543	369.1596	-2.7692	-2.9795	-0.0008
Base	28	65	CB245VX Max	15.4158	17.742	382.3154	21.5827	28.8691	1.9491
Base	28	65	CB245VX Min	-20.9107	-10.5845	348.9141	-27.1955	-34.8541	-1.951
Base	28	65	CB245VY Max	7.1593	26.3856	376.3475	36.4483	14.3916	1.0653
Base	28	65	CB245VY Min	-12.6542	-19.2281	354.882	-42.0612	-20.3765	-1.0672
Base	28	65	CB246POS	-1.2085	-19.6079	214.0067	34.7645	-1.2661	-0.0097
Base	28	65	CB247VX Max	16.9548	-5.4447	230.7073	59.1536	30.5955	1.9403
Base	28	65	CB247VX Min	-19.3717	-33.7711	197.3061	10.3754	-33.1276	-1.9597
Base	28	65	CB247VY Max	8.6982	3.199	224.7395	74.0193	16.118	1.0566
Base	28	65	CB247VY Min	-11.1152	-42.4147	203.2739	-4.4902	-18.6501	-1.076

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	28	65	CB245VCORTX Max	51.7423	46.0684	415.7166	70.3608	92.5923	5.8491
Base	28	65	CB245VCORTX Min	-57.2372	-38.911	315.5129	-75.9737	-98.5772	-5.851
Base	28	65	CB245VCORTY Max	26.9727	71.9993	397.8131	114.9579	49.1597	3.1979
Base	28	65	CB245VCORTY Min	-32.4676	-64.8418	333.4164	-120.5707	-55.1447	-3.1998
Base	28	65	CB247VCORTX Max	53.2812	22.8818	264.1085	107.9318	94.3187	5.8403
Base	28	65	CB247VCORTX Min	-55.6982	-62.0976	163.9049	-38.4027	-96.8508	-5.8597
Base	28	65	CB247VCORTY Max	28.5117	48.8127	246.205	152.5288	50.8861	3.1892
Base	28	65	CB247VCORTY Min	-30.9286	-88.0284	181.8084	-82.9997	-53.4183	-3.2086
Base	28	65	B231	-1.4029	1.8313	235.2737	-1.377	-1.5306	0.0003
Base	28	65	B232	-2.4669	3.2125	318.56	-2.531	-2.6864	-0.001
Base	28	65	B233	-1.3784	1.7598	242.3634	-1.3026	-1.5046	0.0005
Base	28	65	B234	-2.4423	3.1409	325.6497	-2.4566	-2.6603	-0.0007
Base	28	65	B235POS	-1.4029	1.8313	235.2737	-1.377	-1.5306	0.0003
Base	28	65	B235NEG	-1.4029	1.8313	235.2737	-1.377	-1.5306	0.0003
Base	28	65	B236X Max	10.2826	7.463	245.6435	8.325	18.9666	1.2542
Base	28	65	B236X Min	-13.0885	-3.8004	224.9039	-11.079	-22.0278	-1.2537
Base	28	65	B236Y Max	2.0261	16.1066	239.6757	23.1907	4.489	0.3705
Base	28	65	B236Y Min	-4.832	-12.444	230.8717	-25.9447	-7.5503	-0.3699
Base	28	65	B237POS	-2.1825	2.8135	303.0557	-2.1867	-2.3779	-0.0005
Base	28	65	B238X Max	6.5817	7.0373	310.8331	5.0898	12.995	0.94
Base	28	65	B238X Min	-10.9467	-1.4102	295.2784	-9.4632	-17.7508	-0.9409
Base	28	65	B238Y Max	0.3893	13.52	306.3572	16.2391	2.1369	0.2772
Base	28	65	B238Y Min	-4.7543	-7.8929	299.7542	-20.6125	-6.8927	-0.2781
Base	28	65	B239POS	-0.8418	1.0988	141.1642	-0.8262	-0.9184	0.0002
Base	28	65	B23-10X Max	10.8438	6.7305	151.534	8.8758	19.5788	1.2541
Base	28	65	B23-10X Min	-12.5273	-4.5329	130.7944	-10.5282	-21.4156	-1.2538
Base	28	65	B23-10Y Max	2.5873	15.3741	145.5662	23.7415	5.1013	0.3704
Base	28	65	B23-10Y Min	-4.2708	-13.1765	136.7622	-25.3939	-6.9381	-0.3701
Base	28	65	B237NEG	-2.1825	2.8135	303.0557	-2.1867	-2.3779	-0.0005
Base	28	65	B239NEG	-0.8418	1.0988	141.1642	-0.8262	-0.9184	0.0002
Base	28	65	VB244NEG	-2.7352	3.543	369.1596	-2.7692	-2.9795	-0.0008
Base	28	65	VB246NEG	-1.2085	-19.6079	214.0067	34.7645	-1.2661	-0.0097
Base	28	65	CB246NEG	-1.2626	1.6482	211.7463	-1.2393	-1.3776	0.0003
Base	28	65	C1	-2.2447	2.9301	376.4379	-2.2032	-2.449	0.0004
Base	28	65	C2	-3.7311	4.7902	483.0224	-3.7631	-4.0634	-0.0013
Base	28	65	C3	-2.7602	-13.4057	364.527	25.9753	-2.964	-0.009
Base	28	65	C4	-1.2186	-15.6224	213.5829	28.0138	-1.287	-0.0078
Base	29	67	DEAD	3.4338	2.2164	291.319	-1.7923	3.7259	0.008
Base	29	67	LR	-0.0592	0.0108	6.4165	-0.0149	-0.065	0.0011
Base	29	67	LIVE	2.4394	1.5613	118.6748	-1.3482	2.652	0.0001
Base	29	67	1/RX Max	16.8549	13.0218	12.2423	22.384	29.462	1.8059
Base	29	67	1/RX Min	-16.8549	-13.0218	-12.2423	-22.384	-29.462	-1.8059
Base	29	67	1/RY Max	4.9458	20.6098	10.3691	35.4506	8.6521	0.5326
Base	29	67	1/RY Min	-4.9458	-20.6098	-10.3691	-35.4506	-8.6521	-0.5326
Base	29	67	1OMEG/RX Max	50.5646	39.0654	36.727	67.1519	88.386	5.4177

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	29	67	1OMEG/RX Min	-50.5646	-39.0654	-36.727	-67.1519	-88.386	-5.4177
Base	29	67	1OMEG/RY Max	14.8374	61.8294	31.1073	106.3518	25.9562	1.5977
Base	29	67	1OMEG/RY Min	-14.8374	-61.8294	-31.1073	-106.3518	-25.9562	-1.5977
Base	29	67	VB241	4.8073	3.1029	407.8466	-2.5092	5.2162	0.0112
Base	29	67	VB242	8.0527	-16.324	537.6681	31.97	8.7916	0.002
Base	29	67	VB243	6.4652	4.2382	478.5239	-3.5228	7.019	0.0114
Base	29	67	VB244POS	6.5304	4.2263	471.4658	-3.5064	7.0906	0.0102
Base	29	67	VB245X Max	23.4149	17.2427	480.4999	18.885	36.585	1.8156
Base	29	67	VB245X Min	-10.2949	-8.8009	456.0152	-25.8829	-22.3389	-1.7962
Base	29	67	VB245Y Max	11.5058	24.8307	478.6267	31.9516	15.7751	0.5422
Base	29	67	VB245Y Min	1.6142	-16.3889	457.8885	-38.9496	-1.529	-0.5229
Base	29	67	VB246POS	3.0904	1.9947	262.1871	-1.6131	3.3533	0.0072
Base	29	67	VB247X Max	20.004	-6.4706	269.4268	57.0563	32.9251	1.8049
Base	29	67	VB247X Min	-13.7058	-32.5142	244.9422	12.2883	-25.9989	-1.8069
Base	29	67	VB247Y Max	8.0949	1.1174	267.5536	70.1229	12.1152	0.5316
Base	29	67	VB247Y Min	-1.7967	-40.1022	246.8154	-0.7783	-5.1889	-0.5335
Base	29	67	VB245CORTX Max	40.2697	30.2646	492.7422	41.269	66.047	3.6215
Base	29	67	VB245CORTX Min	-27.1498	-21.8227	443.7729	-48.2669	-51.8009	-3.6021
Base	29	67	VB245CORTY Max	16.4516	45.4405	488.9958	67.4022	24.4272	1.0748
Base	29	67	VB245CORTY Min	-3.3316	-36.9987	447.5193	-74.4002	-10.1811	-1.0554
Base	29	67	VB247CORTX Max	36.8588	6.5512	281.6691	79.4402	62.3871	3.6108
Base	29	67	VB247CORTX Min	-30.5607	-45.536	232.6998	-10.0956	-55.4608	-3.6128
Base	29	67	VB247CORTY Max	13.0407	21.7272	277.9227	105.5735	20.7672	1.0641
Base	29	67	VB247CORTY Min	-6.7425	-60.712	236.4463	-36.2289	-13.841	-1.0661
Base	29	67	CB241	4.8073	3.1029	407.8466	-2.5092	5.2162	0.0112
Base	29	67	CB242	8.0527	-16.324	537.6681	31.97	8.7916	0.002
Base	29	67	CB243	6.4652	4.2382	478.5239	-3.5228	7.019	0.0114
Base	29	67	CB244	6.5304	4.2263	471.4658	-3.5064	7.0906	0.0102
Base	29	67	CB245VX Max	24.8986	23.4257	483.6106	29.5202	39.1807	1.9753
Base	29	67	CB245VX Min	-11.7787	-14.9838	452.9045	-36.5181	-24.9345	-1.956
Base	29	67	CB245VY Max	16.5622	28.7373	482.2994	38.6668	24.6137	1.084
Base	29	67	CB245VY Min	-3.4423	-20.2954	454.2158	-45.6648	-10.3676	-1.0647
Base	29	67	CB246POS	3.1491	-19.4924	257.1845	34.6723	3.4631	-0.001
Base	29	67	CB247VX Max	21.4877	-0.2877	272.5375	67.6914	35.5207	1.9647
Base	29	67	CB247VX Min	-15.1895	-38.6972	241.8314	1.6532	-28.5945	-1.9667
Base	29	67	CB247VY Max	13.1513	5.0239	271.2263	76.8381	20.9538	1.0733
Base	29	67	CB247VY Min	-6.8532	-44.0088	243.1427	-7.4935	-14.0275	-1.0753
Base	29	67	CB245VCORTX Max	61.5758	61.8352	514.3167	95.5585	103.2959	5.9067
Base	29	67	CB245VCORTX Min	-48.4559	-53.3933	422.1984	-102.5564	-89.0497	-5.8874
Base	29	67	CB245VCORTY Max	36.5668	77.77	510.383	122.9984	59.595	3.2327
Base	29	67	CB245VCORTY Min	-23.4468	-69.3281	426.1321	-129.9963	-45.3489	-3.2133
Base	29	67	CB247VCORTX Max	58.1649	38.1218	303.2436	133.7297	99.6359	5.896
Base	29	67	CB247VCORTX Min	-51.8668	-77.1067	211.1253	-64.3851	-92.7097	-5.898
Base	29	67	CB247VCORTY Max	33.1559	54.0566	299.3099	161.1697	55.9351	3.222
Base	29	67	CB247VCORTY Min	-26.8577	-93.0415	215.0591	-91.8251	-49.0089	-3.224

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	29	67	B231	3.4338	2.2164	291.319	-1.7923	3.7259	0.008
Base	29	67	B232	5.8732	3.7777	409.9938	-3.1405	6.3779	0.0081
Base	29	67	B233	3.3746	2.2272	297.7355	-1.8072	3.6608	0.0091
Base	29	67	B234	5.814	3.7885	416.4103	-3.1554	6.3129	0.0091
Base	29	67	B235POS	3.4338	2.2164	291.319	-1.7923	3.7259	0.008
Base	29	67	B235NEG	3.4338	2.2164	291.319	-1.7923	3.7259	0.008
Base	29	67	B236X Max	15.2322	11.3316	299.8886	13.8765	24.3492	1.2722
Base	29	67	B236X Min	-8.3646	-6.8989	282.7493	-17.4611	-16.8975	-1.2561
Base	29	67	B236Y Max	6.8958	16.6432	298.5774	23.0231	9.7823	0.3808
Base	29	67	B236Y Min	-0.0283	-12.2105	284.0606	-26.6077	-2.3306	-0.3648
Base	29	67	B237POS	5.219	3.3954	385.1374	-2.8146	5.6661	0.0088
Base	29	67	B238X Max	14.0678	10.2319	391.5647	8.9369	21.1337	0.9569
Base	29	67	B238X Min	-3.6299	-3.441	378.7102	-14.5662	-9.8014	-0.9393
Base	29	67	B238Y Max	7.8155	14.2156	390.5812	15.7969	10.2085	0.2884
Base	29	67	B238Y Min	2.6224	-7.4247	379.6937	-21.4262	1.1238	-0.2707
Base	29	67	B239POS	2.0603	1.3298	174.7914	-1.0754	2.2355	0.0048
Base	29	67	B23-10X Max	13.8587	10.4451	183.361	14.5934	22.8589	1.2689
Base	29	67	B23-10X Min	-9.7382	-7.7854	166.2218	-16.7441	-18.3879	-1.2593
Base	29	67	B23-10Y Max	5.5223	15.7567	182.0498	23.74	8.292	0.3776
Base	29	67	B23-10Y Min	-1.4018	-13.097	167.533	-25.8908	-3.8209	-0.368
Base	29	67	B237NEG	5.219	3.3954	385.1374	-2.8146	5.6661	0.0088
Base	29	67	B239NEG	2.0603	1.3298	174.7914	-1.0754	2.2355	0.0048
Base	29	67	VB244NEG	6.5304	4.2263	471.4658	-3.5064	7.0906	0.0102
Base	29	67	VB246NEG	3.1491	-19.4924	257.1845	34.6723	3.4631	-0.001
Base	29	67	CB246NEG	3.0904	1.9947	262.1871	-1.6131	3.3533	0.0072
Base	29	67	C1	5.494	3.5462	466.1104	-2.8677	5.9614	0.0128
Base	29	67	C2	8.8537	5.7755	620.5017	-4.8265	9.6141	0.0131
Base	29	67	C3	6.6991	-12.8502	461.9997	25.4016	7.3114	0.0033
Base	29	67	C4	3.1381	-15.4636	258.1225	27.8688	3.4425	0.0006
Base	30	69	DEAD	-7.6309	1.2746	210.4986	-0.7686	-8.3093	0.0033
Base	30	69	LR	0.1222	-0.0155	6.3721	0.0135	0.1308	0.0001
Base	30	69	LIVE	-5.1149	0.8995	62.1686	-0.6275	-5.5572	0.0014
Base	30	69	1/RX Max	13.5178	24.0837	20.4147	41.7859	25.772	1.7938
Base	30	69	1/RX Min	-13.5178	-24.0837	-20.4147	-41.7859	-25.772	-1.7938
Base	30	69	1/RY Max	3.9435	20.4169	8.1737	35.791	7.5568	0.5291
Base	30	69	1/RY Min	-3.9435	-20.4169	-8.1737	-35.791	-7.5568	-0.5291
Base	30	69	1OMEG/RX Max	40.5535	72.2512	61.2441	125.3577	77.316	5.3815
Base	30	69	1OMEG/RX Min	-40.5535	-72.2512	-61.2441	-125.3577	-77.316	-5.3815
Base	30	69	1OMEG/RY Max	11.8304	61.2506	24.5212	107.3731	22.6704	1.5873
Base	30	69	1OMEG/RY Min	-11.8304	-61.2506	-24.5212	-107.3731	-22.6704	-1.5873
Base	30	69	VB241	-10.6832	1.7845	294.6981	-1.076	-11.633	0.0046
Base	30	69	VB242	-17.1992	-18.0822	356.2952	33.8939	-18.6688	0.0059
Base	30	69	VB243	-14.0765	2.4043	324.9623	-1.5281	-15.3191	0.0055
Base	30	69	VB244POS	-14.2109	2.4213	317.953	-1.543	-15.463	0.0054
Base	30	69	VB245X Max	-0.7541	26.5128	335.1817	40.2362	10.2436	1.7992

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	30	69	VB245X Min	-27.7898	-21.6547	294.3523	-43.3357	-41.3004	-1.7885
Base	30	69	VB245Y Max	-10.3285	22.8459	322.9407	34.2413	-7.9716	0.5345
Base	30	69	VB245Y Min	-18.2154	-17.9878	306.5932	-37.3408	-23.0852	-0.5238
Base	30	69	VB246POS	-6.8678	1.1472	189.4488	-0.6917	-7.4784	0.003
Base	30	69	VB247X Max	6.7306	4.1876	210.9044	76.9076	18.4222	1.7965
Base	30	69	VB247X Min	-20.305	-43.9798	170.075	-6.6643	-33.1218	-1.7911
Base	30	69	VB247Y Max	-2.8437	0.5208	198.6635	70.9127	0.207	0.5318
Base	30	69	VB247Y Min	-10.7307	-40.313	182.316	-0.6694	-14.9066	-0.5264
Base	30	69	VB245CORTX Max	12.7637	50.5965	355.5963	82.0221	36.0156	3.593
Base	30	69	VB245CORTX Min	-41.3076	-45.7384	273.9376	-85.1216	-67.0724	-3.5823
Base	30	69	VB245CORTY Max	-6.385	43.2628	331.1145	70.0323	-0.4148	1.0636
Base	30	69	VB245CORTY Min	-22.1589	-38.4047	298.4195	-73.1318	-30.642	-1.0529
Base	30	69	VB247CORTX Max	20.2484	28.2714	231.3191	118.6935	44.1942	3.5903
Base	30	69	VB247CORTX Min	-33.8228	-68.0636	149.6604	-48.4502	-58.8939	-3.585
Base	30	69	VB247CORTY Max	1.0997	20.9376	206.8372	106.7037	7.7638	1.0609
Base	30	69	VB247CORTY Min	-14.6741	-60.7298	174.1422	-36.4604	-22.4634	-1.0555
Base	30	69	CB241	-10.6832	1.7845	294.6981	-1.076	-11.633	0.0046
Base	30	69	CB242	-17.1992	-18.0822	356.2952	33.8939	-18.6688	0.0059
Base	30	69	CB243	-14.0765	2.4043	324.9623	-1.5281	-15.3191	0.0055
Base	30	69	CB244	-14.2109	2.4213	317.953	-1.543	-15.463	0.0054
Base	30	69	CB245VX Max	0.4289	32.6379	337.6338	50.9735	12.5107	1.9579
Base	30	69	CB245VX Min	-28.9728	-27.7797	291.9002	-54.073	-43.5674	-1.9472
Base	30	69	CB245VY Max	-6.2731	30.0711	329.0651	46.7771	-0.24	1.0726
Base	30	69	CB245VY Min	-22.2708	-25.2129	300.4688	-49.8765	-30.8168	-1.0619
Base	30	69	CB246POS	-6.7872	-19.8961	190.4897	35.1217	-7.3498	0.0027
Base	30	69	CB247VX Max	7.9137	10.3127	213.3565	87.6449	20.6892	1.9552
Base	30	69	CB247VX Min	-21.4881	-50.1049	167.6229	-17.4016	-35.3889	-1.9499
Base	30	69	CB247VY Max	1.2116	7.7459	204.7879	83.4485	7.9386	1.0699
Base	30	69	CB247VY Min	-14.786	-47.5381	176.1916	-13.2051	-22.6382	-1.0646
Base	30	69	CB245VCORTX Max	29.8306	93.0554	383.3674	156.0199	68.5888	5.863
Base	30	69	CB245VCORTX Min	-58.3745	-88.1973	246.1665	-159.1194	-99.6456	-5.8523
Base	30	69	CB245VCORTY Max	9.7245	85.355	357.6614	143.4307	30.3368	3.2071
Base	30	69	CB245VCORTY Min	-38.2684	-80.4969	271.8725	-146.5301	-61.3936	-3.1964
Base	30	69	CB247VCORTX Max	37.3154	70.7303	259.0902	192.6913	76.7674	5.8604
Base	30	69	CB247VCORTX Min	-50.8898	-110.5225	121.8893	-122.448	-91.467	-5.855
Base	30	69	CB247VCORTY Max	17.2092	63.0299	233.3842	180.1021	38.5154	3.2045
Base	30	69	CB247VCORTY Min	-30.7836	-102.8221	147.5953	-109.8587	-53.215	-3.1991
Base	30	69	B231	-7.6309	1.2746	210.4986	-0.7686	-8.3093	0.0033
Base	30	69	B232	-12.7458	2.1741	272.6672	-1.396	-13.8665	0.0047
Base	30	69	B233	-7.5087	1.2592	216.8707	-0.7551	-8.1785	0.0034
Base	30	69	B234	-12.6236	2.1587	279.0393	-1.3825	-13.7357	0.0048
Base	30	69	B235POS	-7.6309	1.2746	210.4986	-0.7686	-8.3093	0.0033
Base	30	69	B235NEG	-7.6309	1.2746	210.4986	-0.7686	-8.3093	0.0033
Base	30	69	B236X Max	1.8316	18.1333	224.7889	28.4816	9.7311	1.259
Base	30	69	B236X Min	-17.0933	-15.584	196.2083	-30.0187	-26.3497	-1.2524

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	30	69	B236Y Max	-4.8704	15.5665	216.2202	24.2852	-3.0196	0.3737
Base	30	69	B236Y Min	-10.3913	-13.0172	204.777	-25.8223	-13.5991	-0.3671
Base	30	69	B237POS	-11.3754	1.9377	261.9042	-1.229	-12.3791	0.0044
Base	30	69	B238X Max	-4.2786	14.5816	272.6219	20.7086	1.1512	0.9462
Base	30	69	B238X Min	-18.4723	-10.7063	251.1864	-23.1666	-25.9094	-0.9374
Base	30	69	B238Y Max	-9.3051	12.6565	266.1954	17.5613	-8.4118	0.2822
Base	30	69	B238Y Min	-13.4457	-8.7812	257.6129	-20.0193	-16.3465	-0.2734
Base	30	69	B239POS	-4.5785	0.7648	126.2992	-0.4611	-4.9856	0.002
Base	30	69	B23-10X Max	4.884	17.6234	140.5895	28.789	13.0548	1.2577
Base	30	69	B23-10X Min	-14.041	-16.0938	112.0089	-29.7113	-23.026	-1.2537
Base	30	69	B23-10Y Max	-1.8181	15.0566	132.0208	24.5926	0.3042	0.3724
Base	30	69	B23-10Y Min	-7.3389	-13.527	120.5775	-25.5149	-10.2754	-0.3684
Base	30	69	B237NEG	-11.3754	1.9377	261.9042	-1.229	-12.3791	0.0044
Base	30	69	B239NEG	-4.5785	0.7648	126.2992	-0.4611	-4.9856	0.002
Base	30	69	VB244NEG	-14.2109	2.4213	317.953	-1.543	-15.463	0.0054
Base	30	69	VB246NEG	-6.7872	-19.8961	190.4897	35.1217	-7.3498	0.0027
Base	30	69	CB246NEG	-6.8678	1.1472	189.4488	-0.6917	-7.4784	0.003
Base	30	69	C1	-12.2094	2.0394	336.7978	-1.2297	-13.2949	0.0053
Base	30	69	C2	-19.1709	3.2874	411.2173	-2.1197	-20.858	0.0071
Base	30	69	C3	-14.3386	-14.3647	309.5884	27.0578	-15.5677	0.0051
Base	30	69	C4	-6.8023	-15.9505	190.2945	28.4067	-7.3739	0.0027
Base	31	73	DEAD	7.09	-3.0643	186.0428	3.9777	7.6895	-0.0016
Base	31	73	LR	-0.0551	0.0086	3.9445	-0.0101	-0.0602	-0.0002
Base	31	73	LIVE	4.2573	-1.6105	52.7261	2.0999	4.6218	-0.0005
Base	31	73	1/RX Max	24.1014	26.8078	55.5188	46.1801	44.8745	1.7101
Base	31	73	1/RX Min	-24.1014	-26.8078	-55.5188	-46.1801	-44.8745	-1.7101
Base	31	73	1/RY Max	7.0717	21.2689	26.2792	36.9934	13.176	0.505
Base	31	73	1/RY Min	-7.0717	-21.2689	-26.2792	-36.9934	-13.176	-0.505
Base	31	73	1OMEG/RX Max	72.3041	80.4233	166.5564	138.5404	134.6236	5.1302
Base	31	73	1OMEG/RX Min	-72.3041	-80.4233	-166.5564	-138.5404	-134.6236	-5.1302
Base	31	73	1OMEG/RY Max	21.2152	63.8068	78.8377	110.9803	39.5281	1.5149
Base	31	73	1OMEG/RY Min	-21.2152	-63.8068	-78.8377	-110.9803	-39.5281	-1.5149
Base	31	73	VB241	9.926	-4.29	260.4599	5.5687	10.7653	-0.0023
Base	31	73	VB242	15.4055	-27.0879	303.4707	43.4214	16.8687	-0.0302
Base	31	73	VB243	12.6772	-5.2739	282.2886	6.8569	13.7528	-0.0028
Base	31	73	VB244POS	12.7378	-5.2833	277.9497	6.8681	13.8191	-0.0026
Base	31	73	VB245X Max	36.8667	21.5201	331.4962	53.0533	58.7237	1.7076
Base	31	73	VB245X Min	-11.336	-32.0954	220.4586	-39.307	-31.0253	-1.7126
Base	31	73	VB245Y Max	19.8371	15.9813	302.2567	43.8666	27.0252	0.5025
Base	31	73	VB245Y Min	5.6936	-26.5566	249.6982	-30.1203	0.6732	-0.5075
Base	31	73	VB246POS	6.381	-2.7579	167.4385	3.5799	6.9205	-0.0015
Base	31	73	VB247X Max	30.5957	3.2116	216.8427	85.0534	52.0716	1.6813
Base	31	73	VB247X Min	-17.6071	-50.404	105.8051	-7.3069	-37.6775	-1.7388
Base	31	73	VB247Y Max	13.5661	-2.3273	187.6031	75.8667	20.3731	0.4762
Base	31	73	VB247Y Min	-0.5774	-44.8651	135.0446	1.8798	-5.979	-0.5337

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	31	73	VB245CORTX Max	60.9681	48.3279	387.015	99.2334	103.5982	3.4176
Base	31	73	VB245CORTX Min	-35.4374	-58.9032	164.9398	-85.4871	-75.8999	-3.4226
Base	31	73	VB245CORTY Max	26.9088	37.2502	328.5359	80.86	40.2012	1.0074
Base	31	73	VB245CORTY Min	-1.3782	-47.8255	223.4189	-67.1137	-12.5029	-1.0124
Base	31	73	VB247CORTX Max	54.6971	30.0193	272.3615	131.2335	96.9461	3.3914
Base	31	73	VB247CORTX Min	-41.7084	-77.2117	50.2863	-53.487	-82.552	-3.4489
Base	31	73	VB247CORTY Max	20.6378	18.9417	213.8824	112.8601	33.5491	0.9812
Base	31	73	VB247CORTY Min	-7.6492	-66.1341	108.7654	-35.1136	-19.155	-1.0387
Base	31	73	CB241	9.926	-4.29	260.4599	5.5687	10.7653	-0.0023
Base	31	73	CB242	15.4055	-27.0879	303.4707	43.4214	16.8687	-0.0302
Base	31	73	CB243	12.6772	-5.2739	282.2886	6.8569	13.7528	-0.0028
Base	31	73	CB244	12.7378	-5.2833	277.9497	6.8681	13.8191	-0.0026
Base	31	73	CB245VX Max	38.9882	27.9008	339.38	64.1513	62.6765	1.8591
Base	31	73	CB245VX Min	-13.4576	-38.4761	212.5748	-50.405	-34.9781	-1.8641
Base	31	73	CB245VY Max	27.0675	24.0236	318.9123	57.7206	40.4876	1.0155
Base	31	73	CB245VY Min	-1.5368	-34.5989	233.0425	-43.9743	-12.7892	-1.0205
Base	31	73	CB246POS	6.4943	-23.5962	161.3239	38.8732	7.1971	-0.0288
Base	31	73	CB247VX Max	32.7172	9.5922	224.7264	96.1514	56.0244	1.8328
Base	31	73	CB247VX Min	-19.7286	-56.7846	97.9213	-18.4049	-41.6303	-1.8903
Base	31	73	CB247VY Max	20.7965	5.7151	204.2588	89.7207	33.8355	0.9892
Base	31	73	CB247VY Min	-7.8078	-52.9075	118.389	-11.9742	-19.4413	-1.0467
Base	31	73	CB245VCORTX Max	91.434	94.2777	466.1851	178.7076	160.3312	5.5822
Base	31	73	CB245VCORTX Min	-65.9034	-104.853	85.7697	-164.9613	-132.6328	-5.5872
Base	31	73	CB245VCORTY Max	55.6718	82.6461	404.7821	159.4155	93.7643	3.0515
Base	31	73	CB245VCORTY Min	-30.1411	-93.2214	147.1728	-145.6693	-66.066	-3.0565
Base	31	73	CB247VCORTX Max	85.163	75.9691	351.5316	210.7077	153.6791	5.5559
Base	31	73	CB247VCORTX Min	-72.1744	-123.1615	-28.8839	-132.9613	-139.2849	-5.6134
Base	31	73	CB247VCORTY Max	49.4008	64.3376	290.1285	191.4156	87.1122	3.0252
Base	31	73	CB247VCORTY Min	-36.4122	-111.53	32.5192	-113.6692	-72.7181	-3.0827
Base	31	73	B231	7.09	-3.0643	186.0428	3.9777	7.6895	-0.0016
Base	31	73	B232	11.3473	-4.6748	238.7689	6.0776	12.3113	-0.0022
Base	31	73	B233	7.0349	-3.0557	189.9873	3.9675	7.6293	-0.0018
Base	31	73	B234	11.2923	-4.6662	242.7134	6.0675	12.2511	-0.0024
Base	31	73	B235POS	7.09	-3.0643	186.0428	3.9777	7.6895	-0.0016
Base	31	73	B235NEG	7.09	-3.0643	186.0428	3.9777	7.6895	-0.0016
Base	31	73	B236X Max	23.961	15.7011	224.9059	36.3037	39.1017	1.1954
Base	31	73	B236X Min	-9.781	-21.8297	147.1796	-28.3484	-23.7227	-1.1987
Base	31	73	B236Y Max	12.0402	11.8239	204.4382	29.8731	16.9127	0.3518
Base	31	73	B236Y Min	2.1398	-17.9526	167.6473	-21.9177	-1.5337	-0.3551
Base	31	73	B237POS	10.2417	-4.2657	228.5457	5.545	11.1107	-0.0022
Base	31	73	B238X Max	22.8949	9.8084	257.6931	29.7896	34.6698	0.8956
Base	31	73	B238X Min	-2.4115	-18.3398	199.3983	-18.6996	-12.4485	-0.9
Base	31	73	B238Y Max	13.9544	6.9005	242.3423	24.9666	18.0281	0.2629
Base	31	73	B238Y Min	6.529	-15.4319	214.7491	-13.8765	4.1933	-0.2673
Base	31	73	B239POS	4.254	-1.8386	111.6257	2.3866	4.6137	-0.001

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	31	73	B23-10X Max	21.125	16.9268	150.4888	34.7127	36.0259	1.1961
Base	31	73	B23-10X Min	-12.617	-20.604	72.7625	-29.9395	-26.7985	-1.198
Base	31	73	B23-10Y Max	9.2042	13.0497	130.0211	28.282	13.8369	0.3525
Base	31	73	B23-10Y Min	-0.6962	-16.7268	93.2302	-23.5088	-4.6095	-0.3545
Base	31	73	B237NEG	10.2417	-4.2657	228.5457	5.545	11.1107	-0.0022
Base	31	73	B239NEG	4.254	-1.8386	111.6257	2.3866	4.6137	-0.001
Base	31	73	VB244NEG	12.7378	-5.2833	277.9497	6.8681	13.8191	-0.0026
Base	31	73	VB246NEG	6.4943	-23.5962	161.3239	38.8732	7.1971	-0.0288
Base	31	73	CB246NEG	6.381	-2.7579	167.4385	3.5799	6.9205	-0.0015
Base	31	73	C1	11.344	-4.9029	297.6684	6.3643	12.3032	-0.0026
Base	31	73	C2	17.0698	-7.0132	356.7999	9.1214	18.52	-0.0035
Base	31	73	C3	12.914	-21.9386	262.9916	35.0862	14.134	-0.0245
Base	31	73	C4	6.4731	-19.689	162.4704	32.2557	7.1452	-0.0236
Base	32	75	DEAD	-4.319	-4.4232	272.1274	5.4422	-4.7132	0.0023
Base	32	75	LR	0.0319	0.1223	10.6692	-0.1339	0.0336	-0.0002
Base	32	75	LIVE	-2.6799	-2.7895	82.9691	3.3779	-2.9159	0.0012
Base	32	75	1/RX Max	28.4068	15.1916	25.6028	26.3358	49.6278	1.7294
Base	32	75	1/RX Min	-28.4068	-15.1916	-25.6028	-26.3358	-49.6278	-1.7294
Base	32	75	1/RY Max	8.3337	20.1956	24.821	35.2057	14.5784	0.5101
Base	32	75	1/RY Min	-8.3337	-20.1956	-24.821	-35.2057	-14.5784	-0.5101
Base	32	75	1OMEG/RX Max	85.2204	45.5748	76.8083	79.0075	148.8835	5.1881
Base	32	75	1OMEG/RX Min	-85.2204	-45.5748	-76.8083	-79.0075	-148.8835	-5.1881
Base	32	75	1OMEG/RY Max	25.0011	60.5868	74.4631	105.6171	43.7352	1.5304
Base	32	75	1OMEG/RY Min	-25.0011	-60.5868	-74.4631	-105.6171	-43.7352	-1.5304
Base	32	75	VB241	-6.0465	-6.1925	380.9784	7.6191	-6.5985	0.0032
Base	32	75	VB242	-9.1122	-30.949	458.4641	47.7045	-9.782	-0.0276
Base	32	75	VB243	-7.8115	-7.9017	426.5926	9.6943	-8.5179	0.0036
Base	32	75	VB244POS	-7.8467	-8.0363	414.8565	9.8416	-8.5549	0.0038
Base	32	75	VB245X Max	20.5442	7.0941	435.1247	36.2443	41.0561	1.7333
Base	32	75	VB245X Min	-36.2694	-23.289	383.9192	-16.4273	-58.1996	-1.7255
Base	32	75	VB245Y Max	0.4711	12.0982	434.343	45.1142	6.0067	0.514
Base	32	75	VB245Y Min	-16.1963	-28.293	384.7009	-25.2972	-23.1502	-0.5062
Base	32	75	VB246POS	-3.8871	-3.9809	244.9147	4.898	-4.2419	0.002
Base	32	75	VB247X Max	24.8621	-10.0284	264.3436	67.07	45.9085	1.6993
Base	32	75	VB247X Min	-31.9515	-40.4115	213.138	14.3983	-53.3472	-1.7595
Base	32	75	VB247Y Max	4.789	-5.0243	263.5619	75.9398	10.8591	0.4801
Base	32	75	VB247Y Min	-11.8784	-45.4155	213.9198	5.5285	-18.2978	-0.5402
Base	32	75	VB245CORTX Max	48.951	22.2857	460.7275	62.5801	90.6839	3.4627
Base	32	75	VB245CORTX Min	-64.6763	-38.4806	358.3164	-42.7631	-107.8274	-3.4549
Base	32	75	VB245CORTY Max	8.8047	32.2938	459.164	80.3199	20.5851	1.0241
Base	32	75	VB245CORTY Min	-24.53	-48.4886	359.8799	-60.5029	-37.7286	-1.0164
Base	32	75	VB247CORTX Max	53.2689	5.1632	289.9464	93.4058	95.5363	3.4287
Base	32	75	VB247CORTX Min	-60.3583	-55.6031	187.5353	-11.9375	-102.975	-3.4888
Base	32	75	VB247CORTY Max	13.1227	15.1713	288.3829	111.1455	25.4375	0.9902
Base	32	75	VB247CORTY Min	-20.2121	-65.6111	189.0987	-29.6772	-32.8762	-1.0503

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	32	75	CB241	-6.0465	-6.1925	380.9784	7.6191	-6.5985	0.0032
Base	32	75	CB242	-9.1122	-30.949	458.4641	47.7045	-9.782	-0.0276
Base	32	75	CB243	-7.8115	-7.9017	426.5926	9.6943	-8.5179	0.0036
Base	32	75	CB244	-7.8467	-8.0363	414.8565	9.8416	-8.5549	0.0038
Base	32	75	CB245VX Max	23.0443	13.1528	442.571	46.806	45.4296	1.8863
Base	32	75	CB245VX Min	-38.7696	-29.3477	376.4728	-26.989	-62.5731	-1.8785
Base	32	75	CB245VY Max	8.9931	16.6556	442.0238	53.0149	20.895	1.0328
Base	32	75	CB245VY Min	-24.7184	-32.8505	377.0201	-33.1979	-38.0385	-1.025
Base	32	75	CB246POS	-3.5447	-25.2199	238.7408	40.7342	-3.7194	-0.0301
Base	32	75	CB247VX Max	27.3622	-3.9697	271.7899	77.6317	50.282	1.8524
Base	32	75	CB247VX Min	-34.4516	-46.4702	205.6917	3.8366	-57.7207	-1.9125
Base	32	75	CB247VY Max	13.311	-0.4669	271.2427	83.8406	25.7474	0.9989
Base	32	75	CB247VY Min	-20.4004	-49.973	206.2389	-2.3723	-33.1861	-1.059
Base	32	75	CB245VCORTX Max	84.8581	55.6534	508.6692	120.6011	153.4323	5.6511
Base	32	75	CB245VCORTX Min	-100.5834	-71.8482	310.3747	-100.7841	-170.5758	-5.6434
Base	32	75	CB245VCORTY Max	42.7046	66.1618	507.0276	139.2278	79.8285	3.0907
Base	32	75	CB245VCORTY Min	-58.4298	-82.3567	312.0163	-119.4108	-96.972	-3.0829
Base	32	75	CB247VCORTX Max	89.1761	38.5309	337.8881	151.4267	158.2847	5.6172
Base	32	75	CB247VCORTX Min	-96.2655	-88.9707	139.5935	-69.9584	-165.7234	-5.6773
Base	32	75	CB247VCORTY Max	47.0225	49.0393	336.2465	170.0535	84.6809	3.0567
Base	32	75	CB247VCORTY Min	-54.1119	-99.4792	141.2352	-88.5851	-92.1196	-3.1169
Base	32	75	B231	-4.319	-4.4232	272.1274	5.4422	-4.7132	0.0023
Base	32	75	B232	-6.9988	-7.2128	355.0965	8.8201	-7.6291	0.0034
Base	32	75	B233	-4.287	-4.3009	282.7966	5.3083	-4.6796	0.0021
Base	32	75	B234	-6.9669	-7.0904	365.7656	8.6862	-7.5955	0.0032
Base	32	75	B235POS	-4.319	-4.4232	272.1274	5.4422	-4.7132	0.0023
Base	32	75	B235NEG	-4.319	-4.4232	272.1274	5.4422	-4.7132	0.0023
Base	32	75	B236X Max	15.5658	6.2109	290.0494	23.8773	30.0263	1.2128
Base	32	75	B236X Min	-24.2037	-15.0574	254.2055	-12.9929	-39.4527	-1.2083
Base	32	75	B236Y Max	1.5146	9.7137	289.5021	30.0862	5.4917	0.3594
Base	32	75	B236Y Min	-10.1525	-18.5602	254.7527	-19.2018	-14.9181	-0.3548
Base	32	75	B237POS	-6.3049	-6.4236	342.3561	7.8752	-6.8749	0.003
Base	32	75	B238X Max	8.6087	1.5519	355.7975	21.7015	19.1797	0.9109
Base	32	75	B238X Min	-21.2185	-14.3992	328.9146	-5.9511	-32.9295	-0.9049
Base	32	75	B238Y Max	-1.9297	4.179	355.3871	26.3582	0.7788	0.2708
Base	32	75	B238Y Min	-10.6801	-17.0263	329.325	-10.6078	-14.5286	-0.2648
Base	32	75	B239POS	-2.5914	-2.6539	163.2764	3.2653	-2.8279	0.0014
Base	32	75	B23-10X Max	17.2934	7.9802	181.1984	21.7004	31.9116	1.2119
Base	32	75	B23-10X Min	-22.4761	-13.2881	145.3545	-15.1698	-37.5674	-1.2092
Base	32	75	B23-10Y Max	3.2422	11.483	180.6512	27.9093	7.377	0.3584
Base	32	75	B23-10Y Min	-8.425	-16.7909	145.9017	-21.3787	-13.0328	-0.3557
Base	32	75	B237NEG	-6.3049	-6.4236	342.3561	7.8752	-6.8749	0.003
Base	32	75	B239NEG	-2.5914	-2.6539	163.2764	3.2653	-2.8279	0.0014
Base	32	75	VB244NEG	-7.8467	-8.0363	414.8565	9.8416	-8.5549	0.0038
Base	32	75	VB246NEG	-3.5447	-25.2199	238.7408	40.7342	-3.7194	-0.0301

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	32	75	CB246NEG	-3.8871	-3.9809	244.9147	4.898	-4.2419	0.002
Base	32	75	C1	-6.9103	-7.0772	435.4039	8.7075	-7.5411	0.0036
Base	32	75	C2	-10.5481	-10.7268	540.1634	13.1338	-11.4983	0.0048
Base	32	75	C3	-7.6504	-25.0496	400.6516	38.5355	-8.2202	-0.0221
Base	32	75	C4	-3.6089	-21.2376	239.8984	34.0149	-3.8173	-0.024
Base	33	77	DEAD	1.4421	-6.2388	170.0352	7.4117	1.5501	0.0243
Base	33	77	LR	-0.0186	0.1805	6.931	-0.197	-0.0214	0.0026
Base	33	77	LIVE	0.971	-4.0851	39.3817	4.7846	1.0535	0.0026
Base	33	77	1/RX Max	27.5758	8.0993	24.2589	14.9316	48.7925	1.7728
Base	33	77	1/RX Min	-27.5758	-8.0993	-24.2589	-14.9316	-48.7925	-1.7728
Base	33	77	1/RY Max	8.0911	16.6542	26.7425	31.1122	14.3328	0.5233
Base	33	77	1/RY Min	-8.0911	-16.6542	-26.7425	-31.1122	-14.3328	-0.5233
Base	33	77	1OMEG/RX Max	82.7274	24.2978	72.7766	44.7948	146.3774	5.3184
Base	33	77	1OMEG/RX Min	-82.7274	-24.2978	-72.7766	-44.7948	-146.3774	-5.3184
Base	33	77	1OMEG/RY Max	24.2733	49.9625	80.2276	93.3367	42.9983	1.5698
Base	33	77	1OMEG/RY Min	-24.2733	-49.9625	-80.2276	-93.3367	-42.9983	-1.5698
Base	33	77	VB241	2.0189	-8.7343	238.0492	10.3764	2.1702	0.034
Base	33	77	VB242	3.4569	-33.6333	277.474	50.6834	3.8656	0.0079
Base	33	77	VB243	2.6717	-11.2828	254.5134	13.3635	2.8794	0.0358
Base	33	77	VB244POS	2.6922	-11.4814	246.8893	13.5801	2.9029	0.033
Base	33	77	VB245X Max	30.2772	-3.4723	267.6827	28.6102	51.7061	1.8045
Base	33	77	VB245X Min	-24.8744	-19.6709	219.165	-1.253	-45.8789	-1.7411
Base	33	77	VB245Y Max	10.7925	5.0826	270.1664	44.7908	17.2464	0.555
Base	33	77	VB245Y Min	-5.3897	-28.2258	216.6813	-17.4336	-11.4191	-0.4915
Base	33	77	VB246POS	1.2978	-5.6149	153.0317	6.6705	1.3951	0.0219
Base	33	77	VB247X Max	29.0558	-17.2165	184.2462	55.8346	50.5182	1.768
Base	33	77	VB247X Min	-26.0958	-33.415	135.7285	25.9714	-47.0668	-1.7776
Base	33	77	VB247Y Max	9.5711	-8.6616	186.7299	72.0152	16.0585	0.5184
Base	33	77	VB247Y Min	-6.6111	-41.9699	133.2448	9.7908	-12.6071	-0.5281
Base	33	77	VB245CORTX Max	57.853	4.627	291.9416	43.5418	100.4986	3.5774
Base	33	77	VB245CORTX Min	-52.4502	-27.7702	194.9061	-16.1846	-94.6713	-3.5139
Base	33	77	VB245CORTY Max	18.8836	21.7367	296.9089	75.9031	31.5792	1.0782
Base	33	77	VB245CORTY Min	-13.4808	-44.8799	189.9388	-48.5458	-25.7519	-1.0148
Base	33	77	VB247CORTX Max	56.6316	-9.1172	208.5051	70.7662	99.3107	3.5408
Base	33	77	VB247CORTX Min	-53.6716	-41.5143	111.4696	11.0398	-95.8592	-3.5504
Base	33	77	VB247CORTY Max	17.6622	7.9926	213.4725	103.1274	30.3913	1.0417
Base	33	77	VB247CORTY Min	-14.7022	-58.6241	106.5023	-21.3215	-26.9398	-1.0513
Base	33	77	CB241	2.0189	-8.7343	238.0492	10.3764	2.1702	0.034
Base	33	77	CB242	3.4569	-33.6333	277.474	50.6834	3.8656	0.0079
Base	33	77	CB243	2.6717	-11.2828	254.5134	13.3635	2.8794	0.0358
Base	33	77	CB244	2.6922	-11.4814	246.8893	13.5801	2.9029	0.033
Base	33	77	CB245VX Max	32.7046	1.5239	275.7055	37.9439	56.0059	1.9615
Base	33	77	CB245VX Min	-27.3017	-24.6671	211.1422	-10.5866	-50.1787	-1.898
Base	33	77	CB245VY Max	19.0653	7.5124	277.4441	49.2703	31.8842	1.0868
Base	33	77	CB245VY Min	-13.6624	-30.6556	209.4036	-21.9131	-26.0569	-1.0234

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	33	77	CB246POS	1.48	-25.3158	159.9874	40.903	1.7257	-0.0048
Base	33	77	CB247VX Max	31.4831	-12.2202	192.269	65.1682	54.818	1.925
Base	33	77	CB247VX Min	-28.5231	-38.4113	127.7057	16.6377	-51.3666	-1.9346
Base	33	77	CB247VY Max	17.8438	-6.2318	194.0076	76.4947	30.6963	1.0503
Base	33	77	CB247VY Min	-14.8838	-44.3997	125.9672	5.3113	-27.2448	-1.0599
Base	33	77	CB245VCORTX Max	92.7108	27.715	340.2688	86.4744	162.1906	5.8211
Base	33	77	CB245VCORTX Min	-87.3079	-50.8582	146.5789	-59.1172	-156.3633	-5.7576
Base	33	77	CB245VCORTY Max	51.7929	45.6803	345.4845	120.4537	89.8252	3.197
Base	33	77	CB245VCORTY Min	-46.3901	-68.8235	141.3632	-93.0965	-83.9979	-3.1336
Base	33	77	CB247VCORTX Max	91.4894	13.9708	256.8323	113.6988	161.0027	5.7846
Base	33	77	CB247VCORTX Min	-88.5294	-64.6023	63.1425	-31.8928	-157.5512	-5.7942
Base	33	77	CB247VCORTY Max	50.5715	31.9361	262.048	147.6781	88.6373	3.1605
Base	33	77	CB247VCORTY Min	-47.6115	-82.5676	57.9267	-65.8721	-85.1858	-3.1701
Base	33	77	B231	1.4421	-6.2388	170.0352	7.4117	1.5501	0.0243
Base	33	77	B232	2.413	-10.3239	209.4168	12.1963	2.6036	0.0269
Base	33	77	B233	1.4235	-6.0583	176.9661	7.2147	1.5287	0.0269
Base	33	77	B234	2.3945	-10.1434	216.3478	11.9993	2.5822	0.0294
Base	33	77	B235POS	1.4421	-6.2388	170.0352	7.4117	1.5501	0.0243
Base	33	77	B235NEG	1.4421	-6.2388	170.0352	7.4117	1.5501	0.0243
Base	33	77	B236X Max	20.7451	-0.5693	187.0164	17.8638	35.7049	1.2653
Base	33	77	B236X Min	-17.861	-11.9083	153.054	-3.0404	-32.6046	-1.2167
Base	33	77	B236Y Max	7.1058	5.4192	188.755	29.1902	11.5831	0.3906
Base	33	77	B236Y Min	-4.2217	-17.8967	151.3154	-14.3669	-8.4828	-0.342
Base	33	77	B237POS	2.1564	-9.1672	204.7696	10.8524	2.3242	0.0281
Base	33	77	B238X Max	16.6337	-4.9151	217.5055	18.6915	27.9402	0.9589
Base	33	77	B238X Min	-12.3209	-13.4193	192.0337	3.0133	-23.2919	-0.9026
Base	33	77	B238Y Max	6.4042	-0.4238	218.8095	27.1863	9.8489	0.3029
Base	33	77	B238Y Min	-2.0915	-17.9106	190.7298	-5.4815	-5.2005	-0.2466
Base	33	77	B239POS	0.8652	-3.7433	102.0211	4.447	0.9301	0.0146
Base	33	77	B23-10X Max	20.1683	1.9262	119.0023	14.8991	35.0848	1.2556
Base	33	77	B23-10X Min	-18.4378	-9.4128	85.0399	-6.0051	-33.2247	-1.2264
Base	33	77	B23-10Y Max	6.529	7.9147	120.7409	26.2256	10.963	0.3809
Base	33	77	B23-10Y Min	-4.7985	-15.4012	83.3013	-17.3316	-9.1029	-0.3517
Base	33	77	B237NEG	2.1564	-9.1672	204.7696	10.8524	2.3242	0.0281
Base	33	77	B239NEG	0.8652	-3.7433	102.0211	4.447	0.9301	0.0146
Base	33	77	VB244NEG	2.6922	-11.4814	246.8893	13.5801	2.9029	0.033
Base	33	77	VB246NEG	1.48	-25.3158	159.9874	40.903	1.7257	-0.0048
Base	33	77	CB246NEG	1.2978	-5.6149	153.0317	6.6705	1.3951	0.0219
Base	33	77	C1	2.3073	-9.982	272.0563	11.8587	2.4802	0.0389
Base	33	77	C2	3.638	-15.3721	316.7807	18.1753	3.9247	0.0427
Base	33	77	C3	2.879	-27.3093	243.3816	41.0404	3.2132	0.0107
Base	33	77	C4	1.4458	-21.6218	158.6832	34.4844	1.6637	0.0002
Base	34	79	DEAD	-0.8196	-5.8174	209.2179	6.9423	-0.9054	0.0232
Base	34	79	LR	-0.0101	0.1015	10.4205	-0.1122	-0.0124	0.0025
Base	34	79	LIVE	-0.3618	-3.5018	63.0059	4.1502	-0.3929	0.0029

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	34	79	1/RX Max	28.5477	7.648	19.4927	13.4229	49.9084	1.7973
Base	34	79	1/RX Min	-28.5477	-7.648	-19.4927	-13.4229	-49.9084	-1.7973
Base	34	79	1/RY Max	8.3834	19.2903	11.6945	33.8847	14.6658	0.5306
Base	34	79	1/RY Min	-8.3834	-19.2903	-11.6945	-33.8847	-14.6658	-0.5306
Base	34	79	1OMEG/RX Max	85.6432	22.944	58.478	40.2686	149.7252	5.392
Base	34	79	1OMEG/RX Min	-85.6432	-22.944	-58.478	-40.2686	-149.7252	-5.392
Base	34	79	1OMEG/RY Max	25.1502	57.8708	35.0835	101.6542	43.9975	1.5918
Base	34	79	1OMEG/RY Min	-25.1502	-57.8708	-35.0835	-101.6542	-43.9975	-1.5918
Base	34	79	VB241	-1.1475	-8.1443	292.905	9.7192	-1.2676	0.0324
Base	34	79	VB242	-1.4739	-33.6596	344.792	50.7334	-1.5121	0.0202
Base	34	79	VB243	-1.3615	-10.3202	330.7401	12.3015	-1.4991	0.0347
Base	34	79	VB244POS	-1.3504	-10.4319	319.2776	12.4249	-1.4855	0.0319
Base	34	79	VB245X Max	27.2024	-2.8346	333.56	25.9039	48.429	1.828
Base	34	79	VB245X Min	-29.8931	-18.1306	294.5747	-0.9419	-51.3877	-1.7666
Base	34	79	VB245Y Max	7.038	8.8076	325.7619	46.3657	13.1865	0.5613
Base	34	79	VB245Y Min	-9.7287	-29.7729	302.3729	-21.4038	-16.1452	-0.4999
Base	34	79	VB246POS	-0.7377	-5.2357	188.2961	6.2481	-0.8149	0.0209
Base	34	79	VB247X Max	27.9036	-18.7143	195.4996	55.4893	49.3027	1.8047
Base	34	79	VB247X Min	-29.1918	-34.0103	156.5143	28.6436	-50.5141	-1.79
Base	34	79	VB247Y Max	7.7393	-7.072	187.7014	75.9512	14.0601	0.538
Base	34	79	VB247Y Min	-9.0275	-45.6525	164.3124	8.1817	-15.2715	-0.5232
Base	34	79	VB245CORTX Max	55.7501	4.8134	353.0527	39.3267	98.3374	3.6254
Base	34	79	VB245CORTX Min	-58.4408	-25.7786	275.082	-14.3648	-101.2961	-3.564
Base	34	79	VB245CORTY Max	15.4214	28.0979	337.4564	80.2505	27.8523	1.0919
Base	34	79	VB245CORTY Min	-18.1121	-49.0631	290.6784	-55.2885	-30.811	-1.0305
Base	34	79	VB247CORTX Max	56.4513	-11.0663	214.9923	68.9122	99.2111	3.602
Base	34	79	VB247CORTX Min	-57.7395	-41.6583	137.0216	15.2207	-100.4225	-3.5873
Base	34	79	VB247CORTY Max	16.1227	12.2182	199.3959	109.836	28.726	1.0686
Base	34	79	VB247CORTY Min	-17.4109	-64.9428	152.6179	-25.703	-29.9374	-1.0538
Base	34	79	CB241	-1.1475	-8.1443	292.905	9.7192	-1.2676	0.0324
Base	34	79	CB242	-1.4739	-33.6596	344.792	50.7334	-1.5121	0.0202
Base	34	79	CB243	-1.3615	-10.3202	330.7401	12.3015	-1.4991	0.0347
Base	34	79	CB244	-1.3504	-10.4319	319.2776	12.4249	-1.4855	0.0319
Base	34	79	CB245VX Max	29.7174	2.9524	337.0684	36.0693	52.8288	1.9872
Base	34	79	CB245VX Min	-32.4081	-23.9177	291.0664	-11.1073	-55.7875	-1.9258
Base	34	79	CB245VY Max	15.6024	11.102	331.6097	50.3926	28.159	1.1005
Base	34	79	CB245VY Min	-18.2931	-32.0673	296.5251	-25.4306	-31.1177	-1.0391
Base	34	79	CB246POS	-0.6441	-26.3623	176.0069	42.0665	-0.6057	0.0074
Base	34	79	CB247VX Max	30.4186	-12.9272	199.008	65.6548	53.7024	1.9639
Base	34	79	CB247VX Min	-31.7068	-39.7973	153.0059	18.4782	-54.9138	-1.9492
Base	34	79	CB247VY Max	16.3036	-4.7776	193.5492	79.9781	29.0327	1.0772
Base	34	79	CB247VY Min	-17.5918	-47.9469	158.4646	4.1548	-30.2441	-1.0624
Base	34	79	CB245VCORTX Max	91.8429	29.8226	383.0704	83.2459	161.4451	5.9003
Base	34	79	CB245VCORTX Min	-94.5336	-50.7878	245.0643	-58.2839	-164.4038	-5.8388
Base	34	79	CB245VCORTY Max	49.4978	54.2713	366.6943	126.2158	87.4357	3.2401

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	34	79	CB245VCORTY Min	-52.1885	-75.2366	261.4405	-101.2538	-90.3944	-3.1787
Base	34	79	CB247VCORTX Max	92.5441	13.9429	245.01	112.8313	162.3187	5.8769
Base	34	79	CB247VCORTX Min	-93.8323	-66.6675	107.0039	-28.6984	-163.5301	-5.8622
Base	34	79	CB247VCORTY Max	50.199	38.3917	228.6339	155.8013	88.3094	3.2168
Base	34	79	CB247VCORTY Min	-51.4872	-91.1162	123.38	-71.6684	-89.5208	-3.202
Base	34	79	B231	-0.8196	-5.8174	209.2179	6.9423	-0.9054	0.0232
Base	34	79	B232	-1.1814	-9.3191	272.2238	11.0925	-1.2983	0.0261
Base	34	79	B233	-0.8297	-5.7159	219.6383	6.8301	-0.9178	0.0256
Base	34	79	B234	-1.1915	-9.2176	282.6443	10.9803	-1.3106	0.0285
Base	34	79	B235POS	-0.8196	-5.8174	209.2179	6.9423	-0.9054	0.0232
Base	34	79	B235NEG	-0.8196	-5.8174	209.2179	6.9423	-0.9054	0.0232
Base	34	79	B236X Max	19.1638	-0.4638	222.8627	16.3383	34.0305	1.2813
Base	34	79	B236X Min	-20.803	-11.171	195.573	-2.4537	-35.8413	-1.235
Base	34	79	B236Y Max	5.0487	7.6858	217.404	30.6616	9.3607	0.3946
Base	34	79	B236Y Min	-6.688	-19.3206	201.0317	-16.777	-11.1715	-0.3482
Base	34	79	B237POS	-1.0985	-8.3676	264.2877	9.9708	-1.2093	0.0272
Base	34	79	B238X Max	13.889	-4.3524	274.5213	17.0178	24.9926	0.9708
Base	34	79	B238X Min	-16.0861	-12.3828	254.054	2.9238	-27.4112	-0.9164
Base	34	79	B238Y Max	3.3027	1.7598	270.4273	27.7603	6.4902	0.3058
Base	34	79	B238Y Min	-5.4998	-18.495	258.1481	-7.8187	-8.9089	-0.2514
Base	34	79	B239POS	-0.4918	-3.4904	125.5307	4.1654	-0.5432	0.0139
Base	34	79	B23-10X Max	19.4916	1.8632	139.1756	13.5614	34.3926	1.272
Base	34	79	B23-10X Min	-20.4752	-8.844	111.8859	-5.2306	-35.4791	-1.2442
Base	34	79	B23-10Y Max	5.3766	10.0127	133.7169	27.8847	9.7228	0.3853
Base	34	79	B23-10Y Min	-6.3601	-16.9936	117.3446	-19.5539	-10.8093	-0.3575
Base	34	79	B237NEG	-1.0985	-8.3676	264.2877	9.9708	-1.2093	0.0272
Base	34	79	B239NEG	-0.4918	-3.4904	125.5307	4.1654	-0.5432	0.0139
Base	34	79	VB244NEG	-1.3504	-10.4319	319.2776	12.4249	-1.4855	0.0319
Base	34	79	VB246NEG	-0.6441	-26.3623	176.0069	42.0665	-0.6057	0.0074
Base	34	79	CB246NEG	-0.7377	-5.2357	188.2961	6.2481	-0.8149	0.0209
Base	34	79	C1	-1.3114	-9.3078	334.7486	11.1077	-1.4486	0.0371
Base	34	79	C2	-1.7797	-13.9248	417.7299	16.5839	-1.9565	0.0416
Base	34	79	C3	-1.2618	-27.3619	303.8332	41.1128	-1.302	0.0204
Base	34	79	C4	-0.6616	-22.401	178.3112	35.3505	-0.6449	0.0099
Base	35	81	DEAD	1.9635	-9.1494	158.8465	10.5522	2.1232	-0.0252
Base	35	81	LR	0.0498	-0.1277	3.9327	0.1354	0.0529	-0.0027
Base	35	81	LIVE	1.4201	-5.1522	67.624	5.9443	1.5449	-0.0027
Base	35	81	1/RX Max	28.2328	11.6749	17.3752	20.9058	49.5886	1.8004
Base	35	81	1/RX Min	-28.2328	-11.6749	-17.3752	-20.9058	-49.5886	-1.8004
Base	35	81	1/RY Max	8.2819	17.447	13.4031	31.9932	14.5637	0.5314
Base	35	81	1/RY Min	-8.2819	-17.447	-13.4031	-31.9932	-14.5637	-0.5314
Base	35	81	1OMEG/RX Max	84.6985	35.0247	52.1256	62.7173	148.7657	5.4013
Base	35	81	1OMEG/RX Min	-84.6985	-35.0247	-52.1256	-62.7173	-148.7657	-5.4013
Base	35	81	1OMEG/RY Max	24.8456	52.341	40.2092	95.9796	43.6911	1.5943
Base	35	81	1OMEG/RY Min	-24.8456	-52.341	-40.2092	-95.9796	-43.6911	-1.5943

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	35	81	VB241	2.7489	-12.8091	222.3851	14.7731	2.9725	-0.0352
Base	35	81	VB242	4.847	-38.8903	308.1652	56.4543	5.3486	-0.0387
Base	35	81	VB243	3.856	-16.3357	264.532	18.8235	4.1774	-0.0373
Base	35	81	VB244POS	3.8012	-16.1952	260.2061	18.6746	4.1192	-0.0343
Base	35	81	VB245X Max	32.0091	-4.4565	275.615	39.5127	53.6813	1.7675
Base	35	81	VB245X Min	-24.4565	-27.8063	240.8646	-2.2989	-45.4958	-1.8333
Base	35	81	VB245Y Max	12.0582	1.3156	271.6429	50.6001	18.6565	0.4985
Base	35	81	VB245Y Min	-4.5056	-33.5784	244.8367	-13.3863	-10.4709	-0.5644
Base	35	81	VB246POS	1.7671	-8.2344	142.9618	9.497	1.9109	-0.0227
Base	35	81	VB247X Max	30.1937	-16.1632	167.7217	64.616	51.8019	1.7749
Base	35	81	VB247X Min	-26.272	-39.513	132.9713	22.8044	-47.3752	-1.8259
Base	35	81	VB247Y Max	10.2427	-10.3911	163.7496	75.7034	16.777	0.506
Base	35	81	VB247Y Min	-6.321	-45.2851	136.9434	11.717	-12.3504	-0.5569
Base	35	81	VB245CORTX Max	60.242	7.2184	292.9902	60.4184	103.2699	3.568
Base	35	81	VB245CORTX Min	-52.6894	-39.4812	223.4894	-23.2047	-95.0843	-3.6338
Base	35	81	VB245CORTY Max	20.3401	18.7626	285.0459	82.5933	33.2202	1.03
Base	35	81	VB245CORTY Min	-12.7875	-51.0254	231.4337	-45.3795	-25.0346	-1.0958
Base	35	81	VB247CORTX Max	58.4265	-4.4883	185.0969	85.5217	101.3904	3.5754
Base	35	81	VB247CORTX Min	-54.5048	-51.1879	115.5961	1.8986	-96.9638	-3.6264
Base	35	81	VB247CORTY Max	18.5246	7.0559	177.1526	107.6966	31.3407	1.0374
Base	35	81	VB247CORTY Min	-14.6029	-62.7321	123.5404	-20.2762	-26.9141	-1.0884
Base	35	81	CB241	2.7489	-12.8091	222.3851	14.7731	2.9725	-0.0352
Base	35	81	CB242	4.847	-38.8903	308.1652	56.4543	5.3486	-0.0387
Base	35	81	CB243	3.856	-16.3357	264.532	18.8235	4.1774	-0.0373
Base	35	81	CB244	3.8012	-16.1952	260.2061	18.6746	4.1192	-0.0343
Base	35	81	CB245VX Max	34.4937	0.7776	279.6359	49.1106	58.0504	1.927
Base	35	81	CB245VX Min	-26.9411	-33.0404	236.8437	-11.8968	-49.8649	-1.9928
Base	35	81	CB245VY Max	20.528	4.8181	276.8554	56.8718	33.533	1.0387
Base	35	81	CB245VY Min	-12.9754	-37.0809	239.6242	-19.658	-25.3475	-1.1045
Base	35	81	CB246POS	1.9608	-27.8381	150.3465	43.7102	2.2133	-0.0255
Base	35	81	CB247VX Max	32.6782	-10.9291	171.7426	74.2139	56.171	1.9344
Base	35	81	CB247VX Min	-28.7566	-44.7471	128.9504	13.2065	-51.7444	-1.9854
Base	35	81	CB247VY Max	18.7126	-6.8886	168.9621	81.9751	31.6536	1.0461
Base	35	81	CB247VY Min	-14.7909	-48.7876	131.7309	5.4453	-27.227	-1.0971
Base	35	81	CB245VCORTX Max	95.9285	34.5956	322.4282	110.1181	165.9658	5.8467
Base	35	81	CB245VCORTX Min	-88.3759	-66.8584	194.0514	-72.9043	-157.7802	-5.9125
Base	35	81	CB245VCORTY Max	54.0315	46.717	314.0867	133.4017	92.4136	3.1818
Base	35	81	CB245VCORTY Min	-46.4789	-78.9798	202.3929	-96.1879	-84.2281	-3.2476
Base	35	81	CB247VCORTX Max	94.113	22.8889	214.5349	135.2214	164.0863	5.8541
Base	35	81	CB247VCORTX Min	-90.1913	-78.5651	86.1581	-47.801	-159.6597	-5.9051
Base	35	81	CB247VCORTY Max	52.216	35.0103	206.1934	158.505	90.5341	3.1892
Base	35	81	CB247VCORTY Min	-48.2943	-90.6865	94.4996	-71.0846	-86.1075	-3.2402
Base	35	81	B231	1.9635	-9.1494	158.8465	10.5522	2.1232	-0.0252
Base	35	81	B232	3.3836	-14.3015	226.4705	16.4964	3.6681	-0.0279
Base	35	81	B233	2.0133	-9.277	162.7791	10.6876	2.1761	-0.0279

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	35	81	B234	3.4334	-14.4292	230.4032	16.6318	3.7211	-0.0306
Base	35	81	B235POS	1.9635	-9.1494	158.8465	10.5522	2.1232	-0.0252
Base	35	81	B235NEG	1.9635	-9.1494	158.8465	10.5522	2.1232	-0.0252
Base	35	81	B236X Max	21.7264	-0.9769	171.0091	25.1862	36.8352	1.2351
Base	35	81	B236X Min	-17.7995	-17.3218	146.6839	-4.0818	-32.5888	-1.2855
Base	35	81	B236Y Max	7.7608	3.0635	168.2286	32.9474	12.3178	0.3468
Base	35	81	B236Y Min	-3.8338	-21.3623	149.4644	-11.843	-8.0714	-0.3972
Base	35	81	B237POS	3.0659	-13.1092	212.514	15.1119	3.3216	-0.0292
Base	35	81	B238X Max	17.8882	-6.9799	221.636	26.0874	29.3556	0.916
Base	35	81	B238X Min	-11.7563	-19.2386	203.392	4.1364	-22.7124	-0.9745
Base	35	81	B238Y Max	7.4139	-3.9496	219.5506	31.9083	10.9675	0.2498
Base	35	81	B238Y Min	-1.282	-22.2689	205.4774	-1.6845	-4.3244	-0.3082
Base	35	81	B239POS	1.1781	-5.4896	95.3079	6.3313	1.2739	-0.0151
Base	35	81	B23-10X Max	20.9411	2.6828	107.4705	20.9654	35.9859	1.2452
Base	35	81	B23-10X Min	-18.5849	-13.662	83.1453	-8.3027	-33.4381	-1.2754
Base	35	81	B23-10Y Max	6.9754	6.7233	104.69	28.7266	11.4685	0.3569
Base	35	81	B23-10Y Min	-4.6192	-17.7025	85.9258	-16.0639	-8.9207	-0.3871
Base	35	81	B237NEG	3.0659	-13.1092	212.514	15.1119	3.3216	-0.0292
Base	35	81	B239NEG	1.1781	-5.4896	95.3079	6.3313	1.2739	-0.0151
Base	35	81	VB244NEG	3.8012	-16.1952	260.2061	18.6746	4.1192	-0.0343
Base	35	81	VB246NEG	1.9608	-27.8381	150.3465	43.7102	2.2133	-0.0255
Base	35	81	CB246NEG	1.7671	-8.2344	142.9618	9.497	1.9109	-0.0227
Base	35	81	C1	3.1416	-14.639	254.1544	16.8835	3.3971	-0.0403
Base	35	81	C2	5.2478	-21.7849	344.0314	25.1084	5.6888	-0.0445
Base	35	81	C3	4.0982	-32.048	264.2891	46.2323	4.5166	-0.0356
Base	35	81	C4	1.9245	-24.1624	148.9619	37.2952	2.1566	-0.025
Base	36	83	DEAD	-4.849	-4.5456	127.8604	5.5594	-5.283	-0.025
Base	36	83	LR	-0.1033	0.0327	3.4413	-0.0382	-0.1136	-0.0028
Base	36	83	LIVE	-3.2647	-2.878	37.3838	3.4767	-3.5452	-0.0044
Base	36	83	1/RX Max	22.243	23.7867	35.3834	41.3896	43.0403	1.658
Base	36	83	1/RX Min	-22.243	-23.7867	-35.3834	-41.3896	-43.0403	-1.658
Base	36	83	1/RY Max	6.5169	20.4445	12.2738	35.7761	12.625	0.4935
Base	36	83	1/RY Min	-6.5169	-20.4445	-12.2738	-35.7761	-12.625	-0.4935
Base	36	83	1OMEG/RX Max	66.729	71.3602	106.1501	124.1687	129.121	4.974
Base	36	83	1OMEG/RX Min	-66.729	-71.3602	-106.1501	-124.1687	-129.121	-4.974
Base	36	83	1OMEG/RY Max	19.5506	61.3336	36.8213	107.3283	37.8751	1.4804
Base	36	83	1OMEG/RY Min	-19.5506	-61.3336	-36.8213	-107.3283	-37.8751	-1.4804
Base	36	83	VB241	-6.7886	-6.3638	179.0046	7.7832	-7.3962	-0.0351
Base	36	83	VB242	-11.1367	-31.3474	203.1087	48.2457	-12.0655	0.0267
Base	36	83	VB243	-9.2488	-8.2804	196.3224	10.0869	-10.0665	-0.0389
Base	36	83	VB244POS	-9.1351	-8.3164	192.537	10.1289	-9.9416	-0.0359
Base	36	83	VB245X Max	13.1595	15.4541	226.1997	51.5375	33.1556	1.6235
Base	36	83	VB245X Min	-31.3265	-32.1194	155.433	-31.2416	-52.9251	-1.6925
Base	36	83	VB245Y Max	-2.5666	12.1119	203.0901	45.9241	2.7403	0.459
Base	36	83	VB245Y Min	-15.6004	-28.7772	178.5426	-25.6281	-22.5098	-0.5279

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	36	83	VB246POS	-4.3641	-4.091	115.0744	5.0035	-4.7547	-0.0225
Base	36	83	VB247X Max	17.8362	-1.6086	138.5992	82.4238	38.2889	1.7007
Base	36	83	VB247X Min	-26.6498	-49.1821	67.8325	-0.3553	-47.7918	-1.6153
Base	36	83	VB247Y Max	2.11	-4.9508	115.4896	76.8104	7.8736	0.5361
Base	36	83	VB247Y Min	-10.9237	-45.8399	90.9421	5.2582	-17.3765	-0.4508
Base	36	83	VB245CORTX Max	35.4025	39.2408	261.5831	92.9271	76.1959	3.2815
Base	36	83	VB245CORTX Min	-53.5695	-55.9062	120.0496	-72.6311	-95.9654	-3.3505
Base	36	83	VB245CORTY Max	3.9502	32.5564	215.3639	81.7002	15.3653	0.9524
Base	36	83	VB245CORTY Min	-22.1172	-49.2218	166.2688	-61.4042	-35.1348	-1.0214
Base	36	83	VB247CORTX Max	40.0792	22.1782	173.9826	123.8134	81.3292	3.3587
Base	36	83	VB247CORTX Min	-48.8928	-72.9688	32.4491	-41.7448	-90.8322	-3.2733
Base	36	83	VB247CORTY Max	8.6269	15.4937	127.7634	112.5865	20.4986	1.0296
Base	36	83	VB247CORTY Min	-17.4405	-66.2844	78.6683	-30.5179	-30.0016	-0.9442
Base	36	83	CB241	-6.7886	-6.3638	179.0046	7.7832	-7.3962	-0.0351
Base	36	83	CB242	-11.1367	-31.3474	203.1087	48.2457	-12.0655	0.0267
Base	36	83	CB243	-9.2488	-8.2804	196.3224	10.0869	-10.0665	-0.0389
Base	36	83	CB244	-9.1351	-8.3164	192.537	10.1289	-9.9416	-0.0359
Base	36	83	CB245VX Max	15.1146	21.5874	229.8818	62.2704	36.9431	1.7716
Base	36	83	CB245VX Min	-33.2815	-38.2528	151.7508	-41.9744	-56.7126	-1.8405
Base	36	83	CB245VY Max	4.1063	19.2479	213.7051	58.341	15.6524	0.9564
Base	36	83	CB245VY Min	-22.2733	-35.9133	167.9276	-38.045	-35.4219	-1.0253
Base	36	83	CB246POS	-4.4068	-25.3953	103.2158	41.0343	-4.7515	0.0427
Base	36	83	CB247VX Max	19.7912	4.5248	142.2813	93.1567	42.0764	1.8487
Base	36	83	CB247VX Min	-28.6049	-55.3154	64.1503	-11.0881	-51.5793	-1.7634
Base	36	83	CB247VY Max	8.7829	2.1852	126.1046	89.2273	20.7857	1.0335
Base	36	83	CB247VY Min	-17.5966	-52.9759	80.3271	-7.1587	-30.2886	-0.9482
Base	36	83	CB245VCORTX Max	63.5107	81.4276	308.0128	166.5151	130.5988	5.3836
Base	36	83	CB245VCORTX Min	-81.6777	-98.093	73.6198	-146.2192	-150.3683	-5.4526
Base	36	83	CB245VCORTY Max	30.4858	74.409	259.4827	154.7269	66.7267	2.9381
Base	36	83	CB245VCORTY Min	-48.6528	-91.0744	122.15	-134.4309	-86.4962	-3.007
Base	36	83	CB247VCORTX Max	68.1873	64.365	220.4123	197.4014	135.7321	5.4608
Base	36	83	CB247VCORTX Min	-77.001	-115.1557	-13.9807	-115.3328	-145.235	-5.3754
Base	36	83	CB247VCORTY Max	35.1625	57.3464	171.8822	185.6132	71.8599	3.0152
Base	36	83	CB247VCORTY Min	-43.9761	-108.137	34.5495	-103.5446	-81.3629	-2.9299
Base	36	83	B231	-4.849	-4.5456	127.8604	5.5594	-5.283	-0.025
Base	36	83	B232	-8.1137	-7.4236	165.2442	9.0361	-8.8282	-0.0295
Base	36	83	B233	-4.9523	-4.5129	131.3017	5.5212	-5.3966	-0.0278
Base	36	83	B234	-8.217	-7.3909	168.6855	8.9979	-8.9417	-0.0322
Base	36	83	B235POS	-4.849	-4.5456	127.8604	5.5594	-5.283	-0.025
Base	36	83	B235NEG	-4.849	-4.5456	127.8604	5.5594	-5.283	-0.025
Base	36	83	B236X Max	10.7211	12.1051	152.6288	34.5321	24.8453	1.1356
Base	36	83	B236X Min	-20.4191	-21.1963	103.092	-23.4133	-35.4112	-1.1856
Base	36	83	B236Y Max	-0.2872	9.7656	136.452	30.6027	3.5545	0.3204
Base	36	83	B236Y Min	-9.4108	-18.8568	119.2688	-19.4839	-14.1205	-0.3705
Base	36	83	B237POS	-7.375	-6.6796	158.4792	8.1383	-8.0271	-0.0304

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	36	83	B238X Max	4.3026	5.8085	177.0555	29.8678	14.5691	0.84
Base	36	83	B238X Min	-19.0526	-19.1676	139.903	-13.5912	-30.6232	-0.9009
Base	36	83	B238Y Max	-3.9536	4.0538	164.923	26.9207	-1.3989	0.2286
Base	36	83	B238Y Min	-10.7963	-17.413	152.0355	-10.6442	-14.6552	-0.2895
Base	36	83	B239POS	-2.9094	-2.7274	76.7162	3.3356	-3.1698	-0.015
Base	36	83	B23-10X Max	12.6607	13.9234	101.4846	32.3083	26.9584	1.1456
Base	36	83	B23-10X Min	-18.4795	-19.3781	51.9479	-25.637	-33.298	-1.1756
Base	36	83	B23-10Y Max	1.6524	11.5838	85.3079	28.3789	5.6677	0.3304
Base	36	83	B23-10Y Min	-7.4712	-17.0385	68.1246	-21.7076	-12.0073	-0.3604
Base	36	83	B237NEG	-7.375	-6.6796	158.4792	8.1383	-8.0271	-0.0304
Base	36	83	B239NEG	-2.9094	-2.7274	76.7162	3.3356	-3.1698	-0.015
Base	36	83	VB244NEG	-9.1351	-8.3164	192.537	10.1289	-9.9416	-0.0359
Base	36	83	VB246NEG	-4.4068	-25.3953	103.2158	41.0343	-4.7515	0.0427
Base	36	83	CB246NEG	-4.3641	-4.091	115.0744	5.0035	-4.7547	-0.0225
Base	36	83	C1	-7.7584	-7.2729	204.5766	8.895	-8.4528	-0.0401
Base	36	83	C2	-12.5142	-11.2009	248.4073	13.6286	-13.6161	-0.0473
Base	36	83	C3	-9.4367	-25.4583	177.0228	39.0633	-10.2278	0.0167
Base	36	83	C4	-4.3988	-21.4008	105.4393	34.2785	-4.7521	0.0304
Base	37	87	DEAD	4.5212	-1.9102	96.5169	2.7224	4.8946	0.0003
Base	37	87	LR	-0.0553	-0.0033	1.2309	0.0027	-0.0604	-0.0003
Base	37	87	LIVE	2.5105	-0.9801	15.0566	1.4147	2.7208	0.0022
Base	37	87	1/RX Max	27.2212	23.8843	18.9592	42.9508	52.6434	1.6748
Base	37	87	1/RX Min	-27.2212	-23.8843	-18.9592	-42.9508	-52.6434	-1.6748
Base	37	87	1/RY Max	7.9311	18.9895	37.6876	34.4975	15.4115	0.4963
Base	37	87	1/RY Min	-7.9311	-18.9895	-37.6876	-34.4975	-15.4115	-0.4963
Base	37	87	1OMEG/RX Max	81.6636	71.6529	56.8775	128.8524	157.9302	5.0245
Base	37	87	1OMEG/RX Min	-81.6636	-71.6529	-56.8775	-128.8524	-157.9302	-5.0245
Base	37	87	1OMEG/RY Max	23.7934	56.9686	113.0629	103.4926	46.2345	1.489
Base	37	87	1OMEG/RY Min	-23.7934	-56.9686	-113.0629	-103.4926	-46.2345	-1.489
Base	37	87	VB241	6.3296	-2.6743	135.1236	3.8114	6.8525	0.0004
Base	37	87	VB242	9.9334	-23.3922	150.3016	39.3789	10.9816	-0.044
Base	37	87	VB243	7.8475	-3.2776	132.8463	4.6859	8.4978	0.0021
Base	37	87	VB244POS	7.9083	-3.274	131.4923	4.6829	8.5642	0.0024
Base	37	87	VB245X Max	35.1571	20.6119	149.836	47.6324	61.2377	1.6773
Base	37	87	VB245X Min	-19.2853	-27.1566	111.9177	-38.2692	-44.0491	-1.6723
Base	37	87	VB245Y Max	15.867	15.7172	168.5645	39.1791	24.0058	0.4989
Base	37	87	VB245Y Min	0.0048	-22.2619	93.1892	-29.8159	-6.8172	-0.4938
Base	37	87	VB246POS	4.0691	-1.7192	86.8652	2.4502	4.4052	0.0003
Base	37	87	VB247X Max	31.8091	2.6349	115.5997	79.2481	57.8335	1.6274
Base	37	87	VB247X Min	-22.6333	-45.1336	77.6814	-6.6534	-47.4533	-1.7223
Base	37	87	VB247Y Max	12.519	-2.2598	134.3281	70.7949	20.6016	0.4489
Base	37	87	VB247Y Min	-3.3432	-40.2389	58.9529	1.7998	-10.2214	-0.5438
Base	37	87	VB245CORTX Max	62.3783	44.4962	168.7952	90.5832	113.8811	3.3522
Base	37	87	VB245CORTX Min	-46.5065	-51.0409	92.9585	-81.22	-96.6925	-3.3471
Base	37	87	VB245CORTY Max	23.7982	34.7067	206.2521	73.6766	39.4173	0.9952

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	37	87	VB245CORTY Min	-7.9263	-41.2514	55.5016	-64.3135	-22.2286	-0.9901
Base	37	87	VB247CORTX Max	59.0303	26.5192	134.5588	122.1989	110.4769	3.3022
Base	37	87	VB247CORTX Min	-49.8545	-69.0179	58.7222	-49.6042	-100.0967	-3.3971
Base	37	87	VB247CORTY Max	20.4502	16.7297	172.0158	105.2924	36.0131	0.9452
Base	37	87	VB247CORTY Min	-11.2744	-59.2284	21.2653	-32.6977	-25.6329	-1.0401
Base	37	87	CB241	6.3296	-2.6743	135.1236	3.8114	6.8525	0.0004
Base	37	87	CB242	9.9334	-23.3922	150.3016	39.3789	10.9816	-0.044
Base	37	87	CB243	7.8475	-3.2776	132.8463	4.6859	8.4978	0.0021
Base	37	87	CB244	7.9083	-3.274	131.4923	4.6829	8.5642	0.0024
Base	37	87	CB245VX Max	37.5365	26.3088	161.1423	57.9816	65.8612	1.8262
Base	37	87	CB245VX Min	-21.6646	-32.8535	100.6114	-48.6185	-48.6725	-1.8212
Base	37	87	CB245VY Max	24.0334	22.8825	174.2522	52.0643	39.7989	1.0013
Base	37	87	CB245VY Min	-8.1616	-29.4272	87.5015	-42.7012	-22.6102	-0.9963
Base	37	87	CB246POS	4.5879	-21.2494	96.6405	36.2974	5.1901	-0.0474
Base	37	87	CB247VX Max	34.1884	8.3318	126.906	89.5974	62.457	1.7763
Base	37	87	CB247VX Min	-25.0126	-50.8305	66.3751	-17.0027	-52.0767	-1.8712
Base	37	87	CB247VY Max	20.6854	4.9055	140.0159	83.6801	36.3946	0.9513
Base	37	87	CB247VY Min	-11.5096	-47.4042	53.2652	-11.0854	-26.0144	-1.0462
Base	37	87	CB245VCORTX Max	96.7375	85.4711	221.6732	164.5817	180.3949	5.4737
Base	37	87	CB245VCORTX Min	-80.8657	-92.0158	40.0805	-155.2185	-163.2062	-5.4686
Base	37	87	CB245VCORTY Max	56.2284	75.1921	261.0029	146.8298	102.2079	2.9989
Base	37	87	CB245VCORTY Min	-40.3566	-81.7368	0.7507	-137.4667	-85.0192	-2.9938
Base	37	87	CB247VCORTX Max	93.3895	67.4941	187.4369	196.1975	176.9907	5.4237
Base	37	87	CB247VCORTX Min	-84.2137	-109.9928	5.8442	-123.6028	-166.6104	-5.5186
Base	37	87	CB247VCORTY Max	52.8804	57.2151	226.7666	178.4456	98.8037	2.9489
Base	37	87	CB247VCORTY Min	-43.7046	-99.7138	-33.4856	-105.8509	-88.4234	-3.0438
Base	37	87	B231	4.5212	-1.9102	96.5169	2.7224	4.8946	0.0003
Base	37	87	B232	7.0317	-2.8903	111.5735	4.1371	7.6154	0.0025
Base	37	87	B233	4.4659	-1.9135	97.7478	2.7251	4.8343	3.678E-05
Base	37	87	B234	6.9764	-2.8936	112.8044	4.1398	7.5551	0.0022
Base	37	87	B235POS	4.5212	-1.9102	96.5169	2.7224	4.8946	0.0003
Base	37	87	B235NEG	4.5212	-1.9102	96.5169	2.7224	4.8946	0.0003
Base	37	87	B236X Max	23.576	14.8088	109.7883	32.788	41.745	1.1727
Base	37	87	B236X Min	-14.5337	-18.6292	83.2455	-27.3431	-31.9558	-1.1721
Base	37	87	B236Y Max	10.073	11.3825	122.8982	26.8707	15.6827	0.3477
Base	37	87	B236Y Min	-1.0306	-15.2029	70.1355	-21.4259	-5.8934	-0.3471
Base	37	87	B237POS	6.3626	-2.6477	108.7325	3.7854	6.8899	0.0017
Base	37	87	B238X Max	20.6537	9.8915	118.6861	26.3346	34.5277	0.881
Base	37	87	B238X Min	-7.9285	-15.187	98.7789	-18.7637	-20.7478	-0.8776
Base	37	87	B238Y Max	10.5265	7.3218	128.5185	21.8966	14.981	0.2623
Base	37	87	B238Y Min	2.1988	-12.6172	88.9465	-14.3258	-1.2011	-0.2588
Base	37	87	B239POS	2.7127	-1.1461	57.9101	1.6334	2.9368	0.0002
Base	37	87	B23-10X Max	21.7675	15.5729	71.1815	31.699	39.7871	1.1726
Base	37	87	B23-10X Min	-16.3421	-17.8651	44.6387	-28.4321	-33.9136	-1.1722
Base	37	87	B23-10Y Max	8.2645	12.1465	84.2915	25.7817	13.7248	0.3476

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	37	87	B23-10Y Min	-2.8391	-14.4388	31.5288	-22.5148	-7.8513	-0.3473
Base	37	87	B237NEG	6.3626	-2.6477	108.7325	3.7854	6.8899	0.0017
Base	37	87	B239NEG	2.7127	-1.1461	57.9101	1.6334	2.9368	0.0002
Base	37	87	VB244NEG	7.9083	-3.274	131.4923	4.6829	8.5642	0.0024
Base	37	87	VB246NEG	4.5879	-21.2494	96.6405	36.2974	5.1901	-0.0474
Base	37	87	CB246NEG	4.0691	-1.7192	86.8652	2.4502	4.4052	0.0003
Base	37	87	C1	7.2339	-3.0563	154.427	4.3559	7.8314	0.0005
Base	37	87	C2	10.5036	-4.346	162.8124	6.2209	11.3752	0.0037
Base	37	87	C3	8.305	-18.8885	130.011	31.7505	9.1727	-0.0354
Base	37	87	C4	4.4906	-17.5874	94.8076	29.951	5.0429	-0.0385
Base	38	89	DEAD	-3.2417	-1.827	100.275	2.6177	-3.5544	0.0158
Base	38	89	LR	0.0334	-0.131	2.3749	0.1412	0.0353	0.0009
Base	38	89	LIVE	-1.8182	-0.794	16.9146	1.2082	-1.9824	0.0045
Base	38	89	1/RX Max	33.4684	13.8876	34.3929	24.9554	59.3396	1.6702
Base	38	89	1/RX Min	-33.4684	-13.8876	-34.3929	-24.9554	-59.3396	-1.6702
Base	38	89	1/RY Max	9.8473	17.1109	39.5968	31.8396	17.4472	0.5042
Base	38	89	1/RY Min	-9.8473	-17.1109	-39.5968	-31.8396	-17.4472	-0.5042
Base	38	89	1OMEG/RX Max	100.4053	41.6628	103.1787	74.8661	178.0188	5.0105
Base	38	89	1OMEG/RX Min	-100.4053	-41.6628	-103.1787	-74.8661	-178.0188	-5.0105
Base	38	89	1OMEG/RY Max	29.5419	51.3328	118.7905	95.5188	52.3415	1.5126
Base	38	89	1OMEG/RY Min	-29.5419	-51.3328	-118.7905	-95.5188	-52.3415	-1.5126
Base	38	89	VB241	-4.5384	-2.5578	140.3849	3.6648	-4.9762	0.0222
Base	38	89	VB242	-6.6806	-22.8341	158.3113	38.8365	-7.1219	0.1839
Base	38	89	VB243	-5.6548	-3.196	141.0445	4.5754	-6.1912	0.0249
Base	38	89	VB244POS	-5.6915	-3.0519	138.432	4.42	-6.23	0.0239
Base	38	89	VB245X Max	27.7602	10.9012	171.6374	29.3048	53.0919	1.6936
Base	38	89	VB245X Min	-39.1767	-16.874	102.8516	-20.6059	-65.5873	-1.6467
Base	38	89	VB245Y Max	4.1391	14.1245	176.8414	36.189	11.1995	0.5277
Base	38	89	VB245Y Min	-15.5555	-20.0973	97.6477	-27.4902	-23.6949	-0.4807
Base	38	89	VB246POS	-2.9175	-1.6443	90.2475	2.3559	-3.199	0.0143
Base	38	89	VB247X Max	30.6527	-7.0624	134.3709	61.0028	56.4382	1.8417
Base	38	89	VB247X Min	-36.2842	-34.8376	65.5851	11.092	-62.241	-1.4986
Base	38	89	VB247Y Max	7.0316	-3.8391	139.5748	67.887	14.5457	0.6757
Base	38	89	VB247Y Min	-12.663	-38.0609	60.3812	4.2078	-20.3486	-0.3327
Base	38	89	VB245CORTX Max	61.2287	24.7888	206.0303	54.2602	112.4315	3.3638
Base	38	89	VB245CORTX Min	-72.6451	-30.7616	68.4587	-45.5613	-124.9269	-3.3169
Base	38	89	VB245CORTY Max	13.9864	31.2354	216.4382	68.0286	28.6466	1.0318
Base	38	89	VB245CORTY Min	-25.4028	-37.2083	58.0509	-59.3298	-41.142	-0.9849
Base	38	89	VB247CORTX Max	64.1212	6.8252	168.7638	85.9582	115.7778	3.5119
Base	38	89	VB247CORTX Min	-69.7526	-48.7252	31.1922	-13.8633	-121.5806	-3.1688
Base	38	89	VB247CORTY Max	16.8788	13.2718	179.1717	99.7266	31.9929	1.1799
Base	38	89	VB247CORTY Min	-22.5103	-55.1719	20.7843	-27.6318	-37.7957	-0.8368
Base	38	89	CB241	-4.5384	-2.5578	140.3849	3.6648	-4.9762	0.0222
Base	38	89	CB242	-6.6806	-22.8341	158.3113	38.8365	-7.1219	0.1839
Base	38	89	CB243	-5.6548	-3.196	141.0445	4.5754	-6.1912	0.0249

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	38	89	CB244	-5.6915	-3.0519	138.432	4.42	-6.23	0.0239
Base	38	89	CB245VX Max	30.7144	16.0345	183.5165	38.8567	58.3261	1.8449
Base	38	89	CB245VX Min	-42.1309	-22.0073	90.9726	-30.1578	-70.8214	-1.7979
Base	38	89	CB245VY Max	14.1796	18.2908	187.1592	43.6756	29.0013	1.0287
Base	38	89	CB245VY Min	-25.596	-24.2636	87.3298	-34.9768	-41.4967	-0.9818
Base	38	89	CB246POS	-2.8157	-20.95	99.978	36.0474	-2.9014	0.1715
Base	38	89	CB247VX Max	33.6069	-1.9291	146.2499	70.5547	61.6723	1.993
Base	38	89	CB247VX Min	-39.2384	-39.9709	53.7061	1.5402	-67.4752	-1.6499
Base	38	89	CB247VY Max	17.0721	0.3272	149.8927	75.3736	32.3476	1.1768
Base	38	89	CB247VY Min	-22.7035	-42.2272	50.0633	-3.2788	-38.1504	-0.8337
Base	38	89	CB245VCORTX Max	103.5597	54.0762	276.0604	107.8712	187.4736	5.4878
Base	38	89	CB245VCORTX Min	-114.9761	-60.049	-1.5713	-99.1723	-199.969	-5.4408
Base	38	89	CB245VCORTY Max	53.9552	60.8452	286.9886	122.328	99.4994	3.0392
Base	38	89	CB245VCORTY Min	-65.3717	-66.818	-12.4996	-113.6292	-111.9948	-2.9922
Base	38	89	CB247VCORTX Max	106.4522	36.1126	238.7938	139.5692	190.8199	5.6358
Base	38	89	CB247VCORTX Min	-112.0836	-78.0126	-38.8378	-67.4744	-196.6227	-5.2927
Base	38	89	CB247VCORTY Max	56.8477	42.8816	249.7221	154.026	102.8457	3.1872
Base	38	89	CB247VCORTY Min	-62.4792	-84.7816	-49.7661	-81.9312	-108.6485	-2.8442
Base	38	89	B231	-3.2417	-1.827	100.275	2.6177	-3.5544	0.0158
Base	38	89	B232	-5.0599	-2.621	117.1895	3.8259	-5.5368	0.0203
Base	38	89	B233	-3.2083	-1.958	102.6499	2.7589	-3.5191	0.0167
Base	38	89	B234	-5.0265	-2.752	119.5645	3.9671	-5.5015	0.0212
Base	38	89	B235POS	-3.2417	-1.827	100.275	2.6177	-3.5544	0.0158
Base	38	89	B235NEG	-3.2417	-1.827	100.275	2.6177	-3.5544	0.0158
Base	38	89	B236X Max	20.1862	7.8943	124.35	20.0864	37.9833	1.185
Base	38	89	B236X Min	-26.6696	-11.5483	76.1999	-14.8511	-45.0921	-1.1533
Base	38	89	B236Y Max	3.6514	10.1507	127.9927	24.9054	8.6586	0.3688
Base	38	89	B236Y Min	-10.1348	-13.8046	72.5572	-19.67	-15.7674	-0.3371
Base	38	89	B237POS	-4.5803	-2.5208	114.7421	3.6298	-5.0147	0.0199
Base	38	89	B238X Max	12.9906	4.7702	132.7984	16.7313	26.1386	0.8967
Base	38	89	B238X Min	-22.1512	-9.8117	96.6858	-9.4718	-36.168	-0.857
Base	38	89	B238Y Max	0.5895	6.4625	135.5304	20.3456	4.145	0.2846
Base	38	89	B238Y Min	-9.7501	-11.504	93.9538	-13.086	-14.1745	-0.2448
Base	38	89	B239POS	-1.945	-1.0962	60.165	1.5706	-2.1326	0.0095
Base	38	89	B23-10X Max	21.4829	8.6251	84.24	19.0394	39.4051	1.1786
Base	38	89	B23-10X Min	-25.3729	-10.8175	36.0899	-15.8982	-43.6704	-1.1596
Base	38	89	B23-10Y Max	4.9481	10.8815	87.8828	23.8583	10.0804	0.3624
Base	38	89	B23-10Y Min	-8.8381	-13.0738	32.4472	-20.7171	-14.3456	-0.3434
Base	38	89	B237NEG	-4.5803	-2.5208	114.7421	3.6298	-5.0147	0.0199
Base	38	89	B239NEG	-1.945	-1.0962	60.165	1.5706	-2.1326	0.0095
Base	38	89	VB244NEG	-5.6915	-3.0519	138.432	4.42	-6.23	0.0239
Base	38	89	VB246NEG	-2.8157	-20.95	99.978	36.0474	-2.9014	0.1715
Base	38	89	CB246NEG	-2.9175	-1.6443	90.2475	2.3559	-3.199	0.0143
Base	38	89	C1	-5.1867	-2.9232	160.4399	4.1883	-5.687	0.0253
Base	38	89	C2	-7.5725	-4.1303	173.1771	5.9588	-8.2862	0.0313

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	38	89	C3	-5.6069	-18.5469	137.7637	31.4291	-5.9864	0.1493
Base	38	89	C4	-2.8348	-17.3302	98.1535	29.7302	-2.9572	0.142
Base	39	91	DEAD	0.7494	-0.4644	17.1128	0.9909	0.7878	0.0181
Base	39	91	LR	-0.006	-0.0378	0.1519	0.0278	-0.0071	0.0018
Base	39	91	LIVE	0.3245	-0.1741	-2.7303	0.4828	0.3471	0.0059
Base	39	91	1/RX Max	35.1676	3.6396	12.7812	9.0651	60.8279	2.038
Base	39	91	1/RX Min	-35.1676	-3.6396	-12.7812	-9.0651	-60.8279	-2.038
Base	39	91	1/RY Max	10.3679	7.9784	3.928	20.0716	17.9242	0.6297
Base	39	91	1/RY Min	-10.3679	-7.9784	-3.928	-20.0716	-17.9242	-0.6297
Base	39	91	1OMEG/RX Max	105.5028	10.9187	38.3437	27.1954	182.4837	6.1139
Base	39	91	1OMEG/RX Min	-105.5028	-10.9187	-38.3437	-27.1954	-182.4837	-6.1139
Base	39	91	1OMEG/RY Max	31.1038	23.9351	11.7839	60.2147	53.7727	1.8891
Base	39	91	1OMEG/RY Min	-31.1038	-23.9351	-11.7839	-60.2147	-53.7727	-1.8891
Base	39	91	VB241	1.0491	-0.6502	23.9579	1.3873	1.103	0.0253
Base	39	91	VB242	1.7285	-8.6391	16.0942	21.0327	2.0201	0.2273
Base	39	91	VB243	1.2141	-0.7919	18.048	1.7163	1.2812	0.0306
Base	39	91	VB244POS	1.2207	-0.7503	17.881	1.6858	1.289	0.0286
Base	39	91	VB245X Max	36.3913	2.9081	30.5862	10.7371	62.1204	2.0656
Base	39	91	VB245X Min	-33.9439	-4.371	5.0238	-7.3932	-59.5354	-2.0103
Base	39	91	VB245Y Max	11.5916	7.2469	21.733	21.7435	19.2167	0.6574
Base	39	91	VB245Y Min	-9.1442	-8.7098	13.877	-18.3996	-16.6317	-0.602
Base	39	91	VB246POS	0.6744	-0.418	15.4015	0.8918	0.709	0.0163
Base	39	91	VB247X Max	36.1551	-4.5627	28.0342	29.0142	62.0598	2.2494
Base	39	91	VB247X Min	-34.1801	-11.8419	2.4717	10.8839	-59.596	-1.8265
Base	39	91	VB247Y Max	11.3555	-0.2239	19.1809	40.0206	19.1561	0.8411
Base	39	91	VB247Y Min	-9.3804	-16.1806	11.325	-0.1225	-16.6923	-0.4182
Base	39	91	VB245CORTX Max	71.5589	6.5477	43.3675	19.8022	122.9483	4.1036
Base	39	91	VB245CORTX Min	-69.1115	-8.0106	-7.7574	-16.4584	-120.3633	-4.0483
Base	39	91	VB245CORTY Max	21.9595	15.2253	25.661	41.815	37.141	1.287
Base	39	91	VB245CORTY Min	-19.5122	-16.6882	9.9491	-38.4712	-34.5559	-1.2317
Base	39	91	VB247CORTX Max	71.3228	-0.9231	40.8154	38.0794	122.8877	4.2874
Base	39	91	VB247CORTX Min	-69.3477	-15.4814	-10.3095	1.8188	-120.4239	-3.8645
Base	39	91	VB247CORTY Max	21.7234	7.7545	23.1089	60.0922	37.0804	1.4708
Base	39	91	VB247CORTY Min	-19.7483	-24.159	7.397	-20.1941	-34.6165	-1.0479
Base	39	91	CB241	1.0491	-0.6502	23.9579	1.3873	1.103	0.0253
Base	39	91	CB242	1.7285	-8.6391	16.0942	21.0327	2.0201	0.2273
Base	39	91	CB243	1.2141	-0.7919	18.048	1.7163	1.2812	0.0306
Base	39	91	CB244	1.2207	-0.7503	17.881	1.6858	1.289	0.0286
Base	39	91	CB245VX Max	39.5017	5.3016	31.7646	16.7585	67.4977	2.2545
Base	39	91	CB245VX Min	-37.0543	-6.7645	3.8454	-13.4147	-64.9126	-2.1992
Base	39	91	CB245VY Max	22.1419	8.3388	25.5674	24.463	37.4651	1.2687
Base	39	91	CB245VY Min	-19.6945	-9.8017	10.0427	-21.1192	-34.8801	-1.2134
Base	39	91	CB246POS	0.9875	-8.2023	15.2529	19.9491	1.2319	0.2115
Base	39	91	CB247VX Max	39.2655	-2.1692	29.2125	35.0357	67.4371	2.4383
Base	39	91	CB247VX Min	-37.2905	-14.2354	1.2933	4.8624	-64.9732	-2.0154

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	39	91	CB247VY Max	21.9057	0.868	23.0153	42.7402	37.4045	1.4525
Base	39	91	CB247VY Min	-19.9307	-17.2725	7.4906	-2.842	-34.9407	-1.0296
Base	39	91	CB245VCORTX Max	116.0577	17.3678	59.6839	46.9318	199.908	6.7083
Base	39	91	CB245VCORTX Min	-113.6103	-18.8307	-24.0738	-43.5879	-197.323	-6.6529
Base	39	91	CB245VCORTY Max	63.9783	26.4793	41.092	70.0452	109.8103	3.7509
Base	39	91	CB245VCORTY Min	-61.5309	-27.9422	-5.482	-66.7014	-107.2252	-3.6956
Base	39	91	CB247VCORTX Max	115.8215	9.897	57.1318	65.2089	199.8474	6.8921
Base	39	91	CB247VCORTX Min	-113.8465	-26.3015	-26.6259	-25.3108	-197.3836	-6.4692
Base	39	91	CB247VCORTY Max	63.7422	19.0084	38.54	88.3224	109.7497	3.9347
Base	39	91	CB247VCORTY Min	-61.7671	-35.413	-8.0341	-48.4242	-107.2858	-3.5118
Base	39	91	B231	0.7494	-0.4644	17.1128	0.9909	0.7878	0.0181
Base	39	91	B232	1.0738	-0.6386	14.3825	1.4737	1.135	0.024
Base	39	91	B233	0.7434	-0.5022	17.2647	1.0187	0.7808	0.0199
Base	39	91	B234	1.0678	-0.6763	14.5343	1.5015	1.1279	0.0259
Base	39	91	B235POS	0.7494	-0.4644	17.1128	0.9909	0.7878	0.0181
Base	39	91	B235NEG	0.7494	-0.4644	17.1128	0.9909	0.7878	0.0181
Base	39	91	B236X Max	25.3667	2.0833	26.0596	7.3365	43.3674	1.4447
Base	39	91	B236X Min	-23.868	-3.0121	8.1659	-5.3547	-41.7917	-1.4085
Base	39	91	B236Y Max	8.0069	5.1204	19.8624	15.041	13.3348	0.4589
Base	39	91	B236Y Min	-6.5082	-6.0493	14.3632	-13.0592	-11.7591	-0.4227
Base	39	91	B237POS	0.9882	-0.6234	15.179	1.3739	1.0429	0.0239
Base	39	91	B238X Max	19.4512	1.2874	21.8891	6.1331	32.9775	1.0939
Base	39	91	B238X Min	-17.4748	-2.5341	8.4688	-3.3854	-30.8918	-1.046
Base	39	91	B238Y Max	6.4314	3.5653	17.2411	11.9114	10.4531	0.3545
Base	39	91	B238Y Min	-4.4549	-4.812	13.1168	-9.1637	-8.3673	-0.3067
Base	39	91	B239POS	0.4496	-0.2787	10.2677	0.5945	0.4727	0.0109
Base	39	91	B23-10X Max	25.0669	2.2691	19.2145	6.9402	43.0522	1.4374
Base	39	91	B23-10X Min	-24.1677	-2.8264	1.3208	-5.7511	-42.1068	-1.4157
Base	39	91	B23-10Y Max	7.7072	5.3062	13.0173	14.6446	13.0197	0.4516
Base	39	91	B23-10Y Min	-6.8079	-5.8635	7.5181	-13.4555	-12.0743	-0.4299
Base	39	91	B237NEG	0.9882	-0.6234	15.179	1.3739	1.0429	0.0239
Base	39	91	B239NEG	0.4496	-0.2787	10.2677	0.5945	0.4727	0.0109
Base	39	91	VB244NEG	1.2207	-0.7503	17.881	1.6858	1.289	0.0286
Base	39	91	VB246NEG	0.9875	-8.2023	15.2529	19.9491	1.2319	0.2115
Base	39	91	CB246NEG	0.6744	-0.418	15.4015	0.8918	0.709	0.0163
Base	39	91	C1	1.199	-0.7431	27.3804	1.5855	1.2605	0.029
Base	39	91	C2	1.5905	-1.0105	19.5746	2.2553	1.6811	0.0385
Base	39	91	C3	1.445	-6.9863	14.5492	16.9398	1.6808	0.1851
Base	39	91	C4	0.9288	-6.7427	15.2808	16.3758	1.1339	0.1749
Base	40	93	DEAD	-0.624	-0.4631	19.5245	1.1201	-0.6956	-0.0025
Base	40	93	LR	-0.0395	-0.1829	1.4314	0.1962	-0.0429	-0.0011
Base	40	93	LIVE	-0.0944	0.2293	-3.653	0.0954	-0.1057	-0.0013
Base	40	93	1/RX Max	34.395	6.8276	13.723	12.5225	59.6405	0.8085
Base	40	93	1/RX Min	-34.395	-6.8276	-13.723	-12.5225	-59.6405	-0.8085
Base	40	93	1/RY Max	10.1237	17.1096	21.7222	31.4679	17.5557	0.2673

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	40	93	1/RY Min	-10.1237	-17.1096	-21.7222	-31.4679	-17.5557	-0.2673
Base	40	93	1OMEG/RX Max	103.185	20.4827	41.1689	37.5674	178.9216	2.4255
Base	40	93	1OMEG/RX Min	-103.185	-20.4827	-41.1689	-37.5674	-178.9216	-2.4255
Base	40	93	1OMEG/RY Max	30.3711	51.3289	65.1667	94.4038	52.6671	0.8019
Base	40	93	1OMEG/RY Min	-30.3711	-51.3289	-65.1667	-94.4038	-52.6671	-0.8019
Base	40	93	VB241	-0.8736	-0.6484	27.3343	1.5682	-0.9739	-0.0035
Base	40	93	VB242	-0.6063	-16.7483	35.6863	32.2799	-0.5066	0.1325
Base	40	93	VB243	-0.9064	-0.6191	22.0667	1.7536	-1.0091	-0.006
Base	40	93	VB244POS	-0.8629	-0.4179	20.4921	1.5377	-0.9619	-0.0048
Base	40	93	VB245X Max	33.5518	6.5012	33.4994	13.9621	58.7001	0.8042
Base	40	93	VB245X Min	-35.2382	-7.154	6.0535	-11.0829	-60.5809	-0.8128
Base	40	93	VB245Y Max	9.2805	16.7832	41.4987	32.9075	16.6153	0.263
Base	40	93	VB245Y Min	-10.9669	-17.4361	-1.9458	-30.0283	-18.4961	-0.2715
Base	40	93	VB246POS	-0.5616	-0.4168	17.5721	1.0081	-0.626	-0.0022
Base	40	93	VB247X Max	34.1466	-10.0573	48.681	44.2155	59.5332	0.9443
Base	40	93	VB247X Min	-34.6434	-23.7124	21.2351	19.1706	-59.7479	-0.6727
Base	40	93	VB247Y Max	9.8753	0.2248	56.6802	63.161	17.4483	0.4031
Base	40	93	VB247Y Min	-10.3721	-33.9945	13.2358	0.2251	-17.6631	-0.1315
Base	40	93	VB245CORTX Max	67.9468	13.3287	47.2224	26.4846	118.3407	1.6127
Base	40	93	VB245CORTX Min	-69.6332	-13.9816	-7.6695	-23.6054	-120.2215	-1.6213
Base	40	93	VB245CORTY Max	19.4042	33.8929	63.2209	64.3755	34.171	0.5303
Base	40	93	VB245CORTY Min	-21.0906	-34.5457	-23.668	-61.4963	-36.0518	-0.5388
Base	40	93	VB247CORTX Max	68.5416	-3.2297	62.4039	56.738	119.1737	1.7528
Base	40	93	VB247CORTX Min	-69.0384	-30.54	7.5121	6.6481	-119.3884	-1.4812
Base	40	93	VB247CORTY Max	19.999	17.3344	78.4025	94.6289	35.004	0.6704
Base	40	93	VB247CORTY Min	-20.4958	-51.1042	-8.4865	-31.2428	-35.2187	-0.3988
Base	40	93	CB241	-0.8736	-0.6484	27.3343	1.5682	-0.9739	-0.0035
Base	40	93	CB242	-0.6063	-16.7483	35.6863	32.2799	-0.5066	0.1325
Base	40	93	CB243	-0.9064	-0.6191	22.0667	1.7536	-1.0091	-0.006
Base	40	93	CB244	-0.8629	-0.4179	20.4921	1.5377	-0.9619	-0.0048
Base	40	93	CB245VX Max	36.5889	11.6341	40.0161	23.4025	63.9668	0.8844
Base	40	93	CB245VX Min	-38.2753	-12.2869	-0.4632	-20.5233	-65.8476	-0.893
Base	40	93	CB245VY Max	19.599	18.8315	45.6156	36.6643	34.5075	0.5056
Base	40	93	CB245VY Min	-21.2854	-19.4843	-6.0627	-33.7851	-36.3883	-0.5141
Base	40	93	CB246POS	-0.2484	-16.8849	34.958	31.6931	-0.1074	0.1358
Base	40	93	CB247VX Max	37.1837	-4.9244	55.1976	53.6559	64.7999	1.0245
Base	40	93	CB247VX Min	-37.6805	-28.8453	14.7184	9.7302	-65.0146	-0.7529
Base	40	93	CB247VY Max	20.1938	2.2731	60.7971	66.9177	35.3405	0.6457
Base	40	93	CB247VY Min	-20.6906	-36.0428	9.1189	-3.5316	-35.5552	-0.374
Base	40	93	CB245VCORTX Max	111.4531	35.555	80.4953	67.3282	193.7813	2.6618
Base	40	93	CB245VCORTX Min	-113.1395	-36.2079	-40.9424	-64.449	-195.6621	-2.6703
Base	40	93	CB245VCORTY Max	60.4834	57.1473	97.2938	107.1136	105.4032	1.5253
Base	40	93	CB245VCORTY Min	-62.1698	-57.8002	-57.7409	-104.2344	-107.284	-1.5338
Base	40	93	CB247VCORTX Max	112.0479	18.9966	95.6769	97.5817	194.6144	2.8019
Base	40	93	CB247VCORTX Min	-112.5447	-52.7663	-25.7609	-34.1955	-194.8291	-2.5302

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	40	93	CB247VCORTY Max	61.0782	40.5889	112.4754	137.3671	106.2362	1.6653
Base	40	93	CB247VCORTY Min	-61.575	-74.3586	-42.5594	-73.981	-106.4509	-1.3937
Base	40	93	B231	-0.624	-0.4631	19.5245	1.1201	-0.6956	-0.0025
Base	40	93	B232	-0.7184	-0.2338	15.8716	1.2156	-0.8013	-0.0038
Base	40	93	B233	-0.6635	-0.646	20.9559	1.3164	-0.7386	-0.0036
Base	40	93	B234	-0.7579	-0.4167	17.3029	1.4118	-0.8442	-0.0049
Base	40	93	B235POS	-0.624	-0.4631	19.5245	1.1201	-0.6956	-0.0025
Base	40	93	B235NEG	-0.624	-0.4631	19.5245	1.1201	-0.6956	-0.0025
Base	40	93	B236X Max	23.4525	4.3162	29.1306	9.8859	41.0528	0.5635
Base	40	93	B236X Min	-24.7005	-5.2424	9.9184	-7.6456	-42.444	-0.5684
Base	40	93	B236Y Max	6.4626	11.5136	34.7301	23.1477	11.5934	0.1846
Base	40	93	B236Y Min	-7.7106	-12.4399	4.319	-20.9074	-12.9846	-0.1896
Base	40	93	B237POS	-0.7244	-0.4283	17.8583	1.3389	-0.8071	-0.0043
Base	40	93	B238X Max	17.3329	3.1562	25.0629	7.9132	30.5042	0.4202
Base	40	93	B238X Min	-18.7818	-4.0128	10.6538	-5.2354	-32.1184	-0.4287
Base	40	93	B238Y Max	4.5905	8.5543	29.2625	17.8596	8.4097	0.136
Base	40	93	B238Y Min	-6.0394	-9.4109	6.4542	-15.1818	-10.0238	-0.1446
Base	40	93	B239POS	-0.3744	-0.2779	11.7147	0.6721	-0.4174	-0.0015
Base	40	93	B23-10X Max	23.7021	4.5014	21.3208	9.4378	41.331	0.5645
Base	40	93	B23-10X Min	-24.4509	-5.0572	2.1086	-8.0937	-42.1657	-0.5674
Base	40	93	B23-10Y Max	6.7122	11.6989	26.9203	22.6996	11.8716	0.1856
Base	40	93	B23-10Y Min	-7.461	-12.2546	-3.4909	-21.3555	-12.7064	-0.1886
Base	40	93	B237NEG	-0.7244	-0.4283	17.8583	1.3389	-0.8071	-0.0043
Base	40	93	B239NEG	-0.3744	-0.2779	11.7147	0.6721	-0.4174	-0.0015
Base	40	93	VB244NEG	-0.8629	-0.4179	20.4921	1.5377	-0.9619	-0.0048
Base	40	93	VB246NEG	-0.2484	-16.8849	34.958	31.6931	-0.1074	0.1358
Base	40	93	CB246NEG	-0.5616	-0.4168	17.5721	1.0081	-0.626	-0.0022
Base	40	93	C1	-0.9984	-0.741	31.2392	1.7922	-1.113	-0.004
Base	40	93	C2	-1.1012	-0.5694	23.5576	2.0641	-1.2265	-0.0075
Base	40	93	C3	-0.576	-13.6013	31.5659	26.0975	-0.5057	0.1048
Base	40	93	C4	-0.3071	-13.7971	31.6981	25.9396	-0.2046	0.1099
Base	41	95	DEAD	0.9436	-0.2699	22.3634	0.807	1.0132	0.0259
Base	41	95	LR	0.1917	-0.0268	1.71	0.0169	0.2087	0.0028
Base	41	95	LIVE	0.0799	-0.0467	0.123	0.3808	0.085	0.0032
Base	41	95	1/RX Max	34.249	4.359	7.1711	11.1181	59.3048	1.631
Base	41	95	1/RX Min	-34.249	-4.359	-7.1711	-11.1181	-59.3048	-1.631
Base	41	95	1/RY Max	10.083	7.3362	2.146	18.7083	17.4589	0.7087
Base	41	95	1/RY Min	-10.083	-7.3362	-2.146	-18.7083	-17.4589	-0.7087
Base	41	95	1OMEG/RX Max	102.747	13.0769	21.5132	33.3543	177.9143	4.893
Base	41	95	1OMEG/RX Min	-102.747	-13.0769	-21.5132	-33.3543	-177.9143	-4.893
Base	41	95	1OMEG/RY Max	30.2489	22.0087	6.4379	56.125	52.3766	2.1261
Base	41	95	1OMEG/RY Min	-30.2489	-22.0087	-6.4379	-56.125	-52.3766	-2.1261
Base	41	95	VB241	1.3211	-0.3779	31.3088	1.1298	1.4185	0.0362
Base	41	95	VB242	1.5865	-6.9854	28.1538	18.7152	1.8873	0.698
Base	41	95	VB243	1.5189	-0.4135	29.695	1.3761	1.6347	0.0388

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	41	95	VB244POS	1.3081	-0.384	27.8141	1.3575	1.4052	0.0357
Base	41	95	VB245X Max	35.4613	3.9883	34.1301	12.4672	60.6056	1.6653
Base	41	95	VB245X Min	-33.0367	-4.7296	19.788	-9.769	-58.004	-1.5967
Base	41	95	VB245Y Max	11.2952	6.9656	29.105	20.0575	18.7597	0.743
Base	41	95	VB245Y Min	-8.8707	-7.7069	24.8131	-17.3592	-16.158	-0.6744
Base	41	95	VB246POS	0.8493	-0.2429	20.1271	0.7263	0.9119	0.0233
Base	41	95	VB247X Max	35.3288	-2.4573	27.5641	28.9736	60.6478	2.3147
Base	41	95	VB247X Min	-33.1693	-11.1752	13.222	6.7374	-57.9618	-0.9473
Base	41	95	VB247Y Max	11.1627	0.52	22.539	36.5638	18.8019	1.3924
Base	41	95	VB247Y Min	-9.0032	-14.1525	18.2471	-0.8529	-16.1158	-0.025
Base	41	95	VB245CORTX Max	69.7103	8.3473	41.3012	23.5853	119.9104	3.2963
Base	41	95	VB245CORTX Min	-67.2858	-9.0885	12.6169	-20.8871	-117.3087	-3.2277
Base	41	95	VB245CORTY Max	21.3782	14.3018	31.251	38.7658	36.2185	1.4517
Base	41	95	VB245CORTY Min	-18.9537	-15.0431	22.6671	-36.0676	-33.6169	-1.3831
Base	41	95	VB247CORTX Max	69.5778	1.9016	34.7352	40.0916	119.9526	3.9457
Base	41	95	VB247CORTX Min	-67.4183	-15.5342	6.0509	-4.3807	-117.2665	-2.5783
Base	41	95	VB247CORTY Max	21.2457	7.8562	24.685	55.2722	36.2607	2.1011
Base	41	95	VB247CORTY Min	-19.0862	-21.4887	16.1011	-19.5612	-33.5747	-0.7337
Base	41	95	CB241	1.3211	-0.3779	31.3088	1.1298	1.4185	0.0362
Base	41	95	CB242	1.5865	-6.9854	28.1538	18.7152	1.8873	0.698
Base	41	95	CB243	1.5189	-0.4135	29.695	1.3761	1.6347	0.0388
Base	41	95	CB244	1.3081	-0.384	27.8141	1.3575	1.4052	0.0357
Base	41	95	CB245VX Max	38.4862	6.1892	34.7739	18.0797	65.8432	1.8779
Base	41	95	CB245VX Min	-36.0616	-6.9304	19.1442	-15.3815	-63.2416	-1.8093
Base	41	95	CB245VY Max	21.57	8.2733	31.2563	23.3929	36.5511	1.2323
Base	41	95	CB245VY Min	-19.1454	-9.0145	22.6618	-20.6947	-33.9495	-1.1637
Base	41	95	CB246POS	1.0798	-6.8163	20.3931	17.8555	1.343	0.6837
Base	41	95	CB247VX Max	38.3537	-0.2565	28.2079	34.5861	65.8854	2.5273
Base	41	95	CB247VX Min	-36.1942	-13.3761	12.5782	1.1249	-63.1994	-1.1599
Base	41	95	CB247VY Max	21.4374	1.8276	24.6903	39.8992	36.5933	1.8817
Base	41	95	CB247VY Min	-19.2779	-15.4602	16.0958	-4.1883	-33.9073	-0.5143
Base	41	95	CB245VCORTX Max	113.034	19.3088	50.4036	51.5409	194.9281	5.5651
Base	41	95	CB245VCORTX Min	-110.6095	-20.0501	3.5145	-48.8426	-192.3265	-5.4965
Base	41	95	CB245VCORTY Max	62.2853	25.5611	39.8509	67.4804	107.0517	3.6283
Base	41	95	CB245VCORTY Min	-59.8608	-26.3024	14.0672	-64.7822	-104.45	-3.5597
Base	41	95	CB247VCORTX Max	112.9015	12.8632	43.8376	68.0472	194.9703	6.2145
Base	41	95	CB247VCORTX Min	-110.742	-26.4957	-3.0515	-32.3363	-192.2843	-4.8471
Base	41	95	CB247VCORTY Max	62.1528	19.1155	33.2849	83.9868	107.0939	4.2777
Base	41	95	CB247VCORTY Min	-59.9933	-32.748	7.5012	-48.2758	-104.4078	-2.9103
Base	41	95	B231	0.9436	-0.2699	22.3634	0.807	1.0132	0.0259
Base	41	95	B232	1.0235	-0.3166	22.4864	1.1877	1.0982	0.0291
Base	41	95	B233	1.1353	-0.2967	24.0734	0.8238	1.2219	0.0287
Base	41	95	B234	1.2152	-0.3434	24.1964	1.2046	1.3069	0.0319
Base	41	95	B235POS	0.9436	-0.2699	22.3634	0.807	1.0132	0.0259
Base	41	95	B235NEG	0.9436	-0.2699	22.3634	0.807	1.0132	0.0259

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	41	95	B236X Max	24.9179	2.7813	27.3832	8.5896	42.5265	1.1676
Base	41	95	B236X Min	-23.0307	-3.3212	17.3437	-6.9757	-40.5001	-1.1158
Base	41	95	B236Y Max	8.0017	4.8654	23.8656	13.9028	13.2344	0.522
Base	41	95	B236Y Min	-6.1145	-5.4053	20.8612	-12.2889	-11.208	-0.4702
Base	41	95	B237POS	1.1473	-0.325	23.7381	1.1052	1.2334	0.0304
Base	41	95	B238X Max	19.128	1.9634	27.5029	6.9422	32.3684	0.8867
Base	41	95	B238X Min	-16.8334	-2.6135	19.9733	-4.7318	-29.9016	-0.8258
Base	41	95	B238Y Max	6.4409	3.5265	24.8648	10.9271	10.3993	0.4025
Base	41	95	B238Y Min	-4.1463	-4.1766	22.6115	-8.7167	-7.9325	-0.3416
Base	41	95	B239POS	0.5662	-0.162	13.4181	0.4842	0.6079	0.0155
Base	41	95	B23-10X Max	24.5405	2.8893	18.4378	8.2668	42.1213	1.1572
Base	41	95	B23-10X Min	-23.4081	-3.2132	8.3983	-7.2985	-40.9054	-1.1262
Base	41	95	B23-10Y Max	7.6243	4.9734	14.9202	13.58	12.8291	0.5116
Base	41	95	B23-10Y Min	-6.4919	-5.2973	11.9159	-12.6117	-11.6133	-0.4806
Base	41	95	B237NEG	1.1473	-0.325	23.7381	1.1052	1.2334	0.0304
Base	41	95	B239NEG	0.5662	-0.162	13.4181	0.4842	0.6079	0.0155
Base	41	95	VB244NEG	1.3081	-0.384	27.8141	1.3575	1.4052	0.0357
Base	41	95	VB246NEG	1.0798	-6.8163	20.3931	17.8555	1.343	0.6837
Base	41	95	CB246NEG	0.8493	-0.2429	20.1271	0.7263	0.9119	0.0233
Base	41	95	C1	1.5098	-0.4319	35.7815	1.2911	1.6211	0.0414
Base	41	95	C2	1.7827	-0.5028	34.4248	1.8057	1.9177	0.0465
Base	41	95	C3	1.5228	-5.6362	26.0405	15.0596	1.7846	0.5632
Base	41	95	C4	1.0365	-5.5838	20.3432	14.6437	1.2622	0.5599
Base	42	97	DEAD	-2.2346	-0.6836	16.2309	1.3591	-2.427	-0.0137
Base	42	97	LR	-0.2864	-0.0153	1.3516	0.0138	-0.3091	-0.0019
Base	42	97	LIVE	-0.4002	0.0695	-2.4985	0.2733	-0.4342	-0.0006
Base	42	97	1/RX Max	26.0406	21.0079	8.9012	38.3152	50.2616	1.4244
Base	42	97	1/RX Min	-26.0406	-21.0079	-8.9012	-38.3152	-50.2616	-1.4244
Base	42	97	1/RY Max	7.66	18.1418	16.799	33.2226	14.7893	0.5536
Base	42	97	1/RY Min	-7.66	-18.1418	-16.799	-33.2226	-14.7893	-0.5536
Base	42	97	1OMEG/RX Max	78.1219	63.0236	26.7036	114.9457	150.7849	4.2733
Base	42	97	1OMEG/RX Min	-78.1219	-63.0236	-26.7036	-114.9457	-150.7849	-4.2733
Base	42	97	1OMEG/RY Max	22.98	54.4253	50.397	99.6678	44.368	1.6607
Base	42	97	1OMEG/RY Min	-22.98	-54.4253	-50.397	-99.6678	-44.368	-1.6607
Base	42	97	VB241	-3.1285	-0.9571	22.7232	1.9028	-3.3978	-0.0192
Base	42	97	VB242	-3.2144	-17.3391	30.1185	32.9521	-3.3031	-0.514
Base	42	97	VB243	-3.5399	-0.7753	19.1412	1.9264	-3.8411	-0.0201
Base	42	97	VB244POS	-3.2249	-0.7585	17.6544	1.9112	-3.5011	-0.018
Base	42	97	VB245X Max	22.9589	20.257	25.8798	40.2195	46.915	1.4074
Base	42	97	VB245X Min	-29.1224	-21.7588	8.0774	-36.411	-53.6082	-1.4415
Base	42	97	VB245Y Max	4.5783	17.3909	33.7776	35.1269	11.4428	0.5365
Base	42	97	VB245Y Min	-10.7417	-18.8927	0.1796	-31.3183	-18.1359	-0.5706
Base	42	97	VB246POS	-2.0112	-0.6153	14.6078	1.2232	-2.1843	-0.0123
Base	42	97	VB247X Max	24.2801	3.7703	37.4722	70.4154	48.5359	0.9164
Base	42	97	VB247X Min	-27.8012	-38.2454	19.6698	-6.2151	-51.9874	-1.9325

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	42	97	VB247Y Max	5.8994	0.9042	45.37	65.3228	13.0636	0.0455
Base	42	97	VB247Y Min	-9.4206	-35.3793	11.772	-1.1224	-16.5151	-1.0616
Base	42	97	VB245CORTX Max	48.9996	41.2648	34.781	78.5347	97.1767	2.8319
Base	42	97	VB245CORTX Min	-55.163	-42.7666	-0.8238	-74.7262	-103.8698	-2.8659
Base	42	97	VB245CORTY Max	12.2382	35.5327	50.5766	68.3495	26.2321	1.0901
Base	42	97	VB245CORTY Min	-18.4017	-37.0344	-16.6194	-64.541	-32.9253	-1.1242
Base	42	97	VB247CORTX Max	50.3207	24.7782	46.3734	108.7307	98.7975	2.3409
Base	42	97	VB247CORTX Min	-53.8419	-59.2533	10.7686	-44.5303	-102.249	-3.3569
Base	42	97	VB247CORTY Max	13.5594	19.046	62.169	98.5454	27.8529	0.5991
Base	42	97	VB247CORTY Min	-17.0806	-53.5211	-5.027	-34.345	-31.3044	-1.6152
Base	42	97	CB241	-3.1285	-0.9571	22.7232	1.9028	-3.3978	-0.0192
Base	42	97	CB242	-3.2144	-17.3391	30.1185	32.9521	-3.3031	-0.514
Base	42	97	CB243	-3.5399	-0.7753	19.1412	1.9264	-3.8411	-0.0201
Base	42	97	CB244	-3.2249	-0.7585	17.6544	1.9112	-3.5011	-0.018
Base	42	97	CB245VX Max	25.2569	25.6995	30.9195	50.1863	51.3518	1.5735
Base	42	97	CB245VX Min	-31.4204	-27.2013	3.0377	-46.3778	-58.045	-1.6076
Base	42	97	CB245VY Max	12.3904	23.6932	36.4479	46.6214	26.5212	0.9639
Base	42	97	CB245VY Min	-18.5539	-25.195	-2.4908	-42.8129	-33.2144	-0.9979
Base	42	97	CB246POS	-1.7606	-17.2376	28.571	32.1002	-1.7258	-0.508
Base	42	97	CB247VX Max	26.5781	9.2128	42.5119	80.3822	52.9727	1.0825
Base	42	97	CB247VX Min	-30.0992	-43.688	14.6301	-16.1818	-56.4242	-2.0986
Base	42	97	CB247VY Max	13.7116	7.2066	48.0404	76.8174	28.1421	0.4729
Base	42	97	CB247VY Min	-17.2328	-41.6817	9.1017	-12.617	-31.5936	-1.489
Base	42	97	CB245VCORTX Max	81.9342	78.6003	58.8012	146.7503	160.7487	4.7545
Base	42	97	CB245VCORTX Min	-88.0977	-80.1021	-24.8441	-142.9418	-167.4419	-4.7886
Base	42	97	CB245VCORTY Max	43.3348	72.5815	75.3866	136.0558	86.2569	2.9257
Base	42	97	CB245VCORTY Min	-49.4983	-74.0833	-41.4295	-132.2473	-92.9501	-2.9598
Base	42	97	CB247VCORTX Max	83.2554	62.1136	70.3937	176.9462	162.3695	4.2635
Base	42	97	CB247VCORTX Min	-86.7765	-96.5888	-13.2517	-112.7459	-165.821	-5.2796
Base	42	97	CB247VCORTY Max	44.656	56.0948	86.9791	166.2517	87.8777	2.4347
Base	42	97	CB247VCORTY Min	-48.1771	-90.57	-29.837	-102.0513	-91.3292	-3.4508
Base	42	97	B231	-2.2346	-0.6836	16.2309	1.3591	-2.427	-0.0137
Base	42	97	B232	-2.6348	-0.6142	13.7324	1.6324	-2.8612	-0.0143
Base	42	97	B233	-2.521	-0.6989	17.5825	1.373	-2.7361	-0.0156
Base	42	97	B234	-2.9212	-0.6294	15.084	1.6463	-3.1703	-0.0162
Base	42	97	B235POS	-2.2346	-0.6836	16.2309	1.3591	-2.427	-0.0137
Base	42	97	B235NEG	-2.2346	-0.6836	16.2309	1.3591	-2.427	-0.0137
Base	42	97	B236X Max	15.9938	14.0219	22.4617	28.1798	32.7562	0.9834
Base	42	97	B236X Min	-20.4631	-15.3891	10	-25.4615	-37.6101	-1.0108
Base	42	97	B236Y Max	3.1273	12.0156	27.9902	24.615	7.9256	0.3738
Base	42	97	B236Y Min	-7.5966	-13.3829	4.4716	-21.8967	-12.7795	-0.4012
Base	42	97	B237POS	-2.7495	-0.643	15.3707	1.5745	-2.9844	-0.0156
Base	42	97	B238X Max	10.9218	10.3861	20.0439	21.69	23.4029	0.7322
Base	42	97	B238X Min	-16.4209	-11.6721	10.6976	-18.541	-29.3718	-0.7634
Base	42	97	B238Y Max	1.272	8.8814	24.1902	19.0163	4.78	0.275

Table 5.4 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	42	97	B238Y Min	-6.771	-10.1674	6.5513	-15.8674	-10.7489	-0.3062
Base	42	97	B239POS	-1.3408	-0.4102	9.7385	0.8155	-1.4562	-0.0082
Base	42	97	B23-10X Max	16.8877	14.2953	15.9694	27.6361	33.727	0.9889
Base	42	97	B23-10X Min	-19.5692	-15.1157	3.5077	-26.0052	-36.6393	-1.0053
Base	42	97	B23-10Y Max	4.0212	12.2891	21.4978	24.0713	8.8964	0.3793
Base	42	97	B23-10Y Min	-6.7028	-13.1094	-2.0208	-22.4403	-11.8087	-0.3957
Base	42	97	B237NEG	-2.7495	-0.643	15.3707	1.5745	-2.9844	-0.0156
Base	42	97	B239NEG	-1.3408	-0.4102	9.7385	0.8155	-1.4562	-0.0082
Base	42	97	VB244NEG	-3.2249	-0.7585	17.6544	1.9112	-3.5011	-0.018
Base	42	97	VB246NEG	-1.7606	-17.2376	28.571	32.1002	-1.7258	-0.508
Base	42	97	CB246NEG	-2.0112	-0.6153	14.6078	1.2232	-2.1843	-0.0123
Base	42	97	C1	-3.5754	-1.0938	25.9694	2.1746	-3.8832	-0.022
Base	42	97	C2	-4.2956	-0.865	20.7736	2.3909	-4.6614	-0.0234
Base	42	97	C3	-3.0247	-13.9463	26.745	26.4962	-3.1329	-0.4141
Base	42	97	C4	-1.8076	-14.1209	25.9529	26.3108	-1.8117	-0.4151

5.4 Modal Results

Table 5.5 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad²/sec²
Modal	1	40657456	0	0	0
Modal	2	13.037	0.077	0.482	0.2323
Modal	3	13.026	0.077	0.4823	0.2327
Modal	4	10.174	0.098	0.6176	0.3814
Modal	5	8.942	0.112	0.7027	0.4937
Modal	6	8.504	0.118	0.7388	0.5459
Modal	7	8.323	0.12	0.7549	0.5699
Modal	8	8.093	0.124	0.7764	0.6027
Modal	9	7.942	0.126	0.7911	0.6259
Modal	10	6.762	0.148	0.9292	0.8634
Modal	11	6.618	0.151	0.9494	0.9014
Modal	12	6.172	0.162	1.0179	1.0362
Modal	13	6.159	0.162	1.0201	1.0406
Modal	14	6.037	0.166	1.0407	1.0831
Modal	15	5.512	0.181	1.1399	1.2993
Modal	16	5.16	0.194	1.2177	1.4828
Modal	17	4.789	0.209	1.3119	1.721
Modal	18	4.753	0.21	1.322	1.7477
Modal	19	4.683	0.214	1.3417	1.8003
Modal	20	4.401	0.227	1.4277	2.0382
Modal	21	4.397	0.227	1.4288	2.0416
Modal	22	4.344	0.23	1.4463	2.0917
Modal	23	4.324	0.231	1.4532	2.1117
Modal	24	4.32	0.231	1.4543	2.1151

Table 5.5 - Modal Periods and Frequencies (continued)

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad²/sec²
Modal	25	4.267	0.234	1.4724	2.168
Modal	26	4.207	0.238	1.4937	2.2311
Modal	27	4.189	0.239	1.5001	2.2502
Modal	28	4.158	0.241	1.5112	2.2836
Modal	29	4.108	0.243	1.5294	2.3389
Modal	30	4.101	0.244	1.5321	2.3472
Modal	31	4.022	0.249	1.5623	2.4407
Modal	32	3.619	0.276	1.7364	3.015
Modal	33	3.462	0.289	1.8151	3.2946
Modal	34	3.406	0.294	1.8447	3.4031
Modal	35	2.976	0.336	2.1114	4.4578
Modal	36	2.931	0.341	2.1439	4.5963
Modal	37	2.837	0.352	2.2146	4.9045
Modal	38	2.775	0.36	2.2642	5.1265
Modal	39	2.659	0.376	2.3631	5.5844
Modal	40	2.591	0.386	2.425	5.8804
Modal	41	2.297	0.435	2.7359	7.4851
Modal	42	2.252	0.444	2.7903	7.7859
Modal	43	2.169	0.461	2.8966	8.3904
Modal	44	2.054	0.487	3.0592	9.3586
Modal	45	1.983	0.504	3.1689	10.0419
Modal	46	1.859	0.538	3.379	11.4178
Modal	47	1.858	0.538	3.3819	11.4375
Modal	48	1.831	0.546	3.4314	11.7747
Modal	49	1.702	0.587	3.6906	13.6205
Modal	50	1.323	0.756	4.7495	22.5575
Modal	51	0.445	2.249	14.1284	199.611
Modal	52	0.418	2.393	15.0353	226.0617
Modal	53	0.344	2.911	18.2907	334.5508
Modal	54	0.319	3.136	19.7044	388.2653
Modal	55	0.311	3.218	20.2166	408.7115
Modal	56	0.309	3.233	20.3153	412.71
Modal	57	0.301	3.319	20.8568	435.0074
Modal	58	0.295	3.391	21.307	453.989
Modal	59	0.28	3.576	22.4709	504.9421
Modal	60	0.271	3.684	23.1492	535.8836
Modal	61	0.259	3.868	24.3023	590.6005
Modal	62	0.246	4.064	25.5366	652.1177
Modal	63	0.242	4.124	25.9132	671.4948
Modal	64	0.238	4.195	26.3574	694.7101
Modal	65	0.23	4.349	27.3259	746.7053
Modal	66	0.224	4.455	27.991	783.4963
Modal	67	0.22	4.55	28.5899	817.3818
Modal	68	0.216	4.632	29.1038	847.0337

Table 5.5 - Modal Periods and Frequencies (continued)

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad²/sec²
Modal	69	0.209	4.782	30.0477	902.8641
Modal	70	0.203	4.92	30.9131	955.6222
Modal	71	0.203	4.932	30.99	960.3822
Modal	72	0.2	4.992	31.3674	983.9119
Modal	73	0.198	5.042	31.6807	1003.6694
Modal	74	0.197	5.063	31.8145	1012.1644
Modal	75	0.196	5.11	32.1053	1030.7508
Modal	76	0.193	5.187	32.5923	1062.2556
Modal	77	0.189	5.293	33.2574	1106.0543
Modal	78	0.188	5.312	33.3739	1113.8187
Modal	79	0.184	5.438	34.1705	1167.6263
Modal	80	0.183	5.462	34.3163	1177.608
Modal	81	0.18	5.543	34.8275	1212.9562
Modal	82	0.177	5.634	35.4019	1253.2939
Modal	83	0.176	5.669	35.6216	1268.8951
Modal	84	0.176	5.68	35.687	1273.5585
Modal	85	0.175	5.712	35.8887	1287.9954
Modal	86	0.173	5.789	36.3731	1323.0031
Modal	87	0.173	5.789	36.3759	1323.2061
Modal	88	0.171	5.856	36.7969	1354.0095
Modal	89	0.169	5.92	37.1955	1383.5039
Modal	90	0.166	6.021	37.831	1431.1851
Modal	91	0.166	6.022	37.8359	1431.5545
Modal	92	0.165	6.056	38.0537	1448.0827
Modal	93	0.161	6.221	39.0897	1528.004
Modal	94	0.159	6.281	39.4624	1557.2805
Modal	95	0.159	6.281	39.4629	1557.324
Modal	96	0.159	6.285	39.489	1559.3829
Modal	97	0.154	6.49	40.7761	1662.6863
Modal	98	0.154	6.514	40.9287	1675.161
Modal	99	0.151	6.608	41.5189	1723.816
Modal	100	0.149	6.695	42.0634	1769.3259
Modal	101	0.149	6.731	42.289	1788.3603
Modal	102	0.143	6.993	43.9385	1930.5909
Modal	103	0.141	7.107	44.6539	1993.9744
Modal	104	0.139	7.209	45.2954	2051.67
Modal	105	0.135	7.408	46.544	2166.343
Modal	106	0.134	7.443	46.7628	2186.7618
Modal	107	0.133	7.542	47.387	2245.5312
Modal	108	0.13	7.669	48.1837	2321.6712
Modal	109	0.129	7.765	48.7885	2380.3167
Modal	110	0.128	7.811	49.0771	2408.5665
Modal	111	0.126	7.916	49.7377	2473.8345
Modal	112	0.126	7.917	49.7411	2474.176

Table 5.5 - Modal Periods and Frequencies (continued)

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad²/sec²
Modal	113	0.12	8.312	52.2272	2727.681
Modal	114	0.118	8.484	53.3089	2841.8412
Modal	115	0.111	8.981	56.4272	3184.0239
Modal	116	0.109	9.135	57.3953	3294.2191
Modal	117	0.109	9.211	57.8743	3349.435
Modal	118	0.107	9.353	58.7667	3453.5308
Modal	119	0.106	9.39	59.0015	3481.1758
Modal	120	0.1	9.962	62.5911	3917.6484
Modal	121	0.099	10.058	63.1975	3993.9221
Modal	122	0.089	11.278	70.8612	5021.3158
Modal	123	0.087	11.479	72.1269	5202.2868
Modal	124	0.086	11.642	73.1482	5350.6662
Modal	125	0.078	12.812	80.4983	6479.984
Modal	126	0.067	14.887	93.5387	8749.4902
Modal	127	0.052	19.116	120.1067	14425.6259
Modal	128	0.05	20.118	126.4041	15978.0013
Modal	129	0.049	20.448	128.4793	16506.9314
Modal	130	0.046	21.605	135.746	18426.9847

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	40657456	0	0	0	0	0	0
Modal	2	13.037	0.01	0.0102	0	0.01	0.0102	0
Modal	3	13.026	0.0102	0.01	0	0.0202	0.0202	0
Modal	4	10.174	0.0118	0.0019	0	0.032	0.0221	0
Modal	5	8.942	0.0024	0.004	0	0.0344	0.0261	0
Modal	6	8.504	0	0	0	0.0344	0.0261	0
Modal	7	8.323	0.0091	0.0001	0	0.0436	0.0261	0
Modal	8	8.093	0.0014	0.0061	0	0.0449	0.0322	0
Modal	9	7.942	0.0034	0.0021	0	0.0483	0.0343	0
Modal	10	6.762	0.0008	0.0041	0	0.0491	0.0384	0
Modal	11	6.618	0.0035	0.0009	0	0.0526	0.0393	0
Modal	12	6.172	0.0001	0.0062	0	0.0527	0.0455	0
Modal	13	6.159	0.0064	0.0007	0	0.0592	0.0462	0
Modal	14	6.037	0.0006	0.0009	0	0.0597	0.0471	0
Modal	15	5.512	0	0.0159	0	0.0597	0.063	0
Modal	16	5.16	0.0006	0.0012	0	0.0603	0.0642	0
Modal	17	4.789	0.0116	0	0	0.0719	0.0642	0
Modal	18	4.753	0.0029	0.0054	0	0.0748	0.0696	0
Modal	19	4.683	0	0	0	0.0748	0.0696	0
Modal	20	4.401	0.0051	0.0041	0	0.0799	0.0737	0
Modal	21	4.397	0.0012	0.0059	0	0.0811	0.0795	0
Modal	22	4.344	0.0004	0.006	0	0.0815	0.0856	0

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2, continued)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	23	4.324	0.0053	0.0059	0	0.0867	0.0915	0
Modal	24	4.32	0.006	0.0052	0	0.0927	0.0967	0
Modal	25	4.267	0.0089	0	0	0.1016	0.0967	0
Modal	26	4.207	0	0.0107	0	0.1016	0.1074	0
Modal	27	4.189	0	0	0	0.1016	0.1074	0
Modal	28	4.158	0	0.0009	0	0.1016	0.1083	0
Modal	29	4.108	0.0065	0.0001	0	0.1082	0.1084	0
Modal	30	4.101	6.548E-07	6.227E-07	0	0.1082	0.1084	0
Modal	31	4.022	0.0016	0.0002	0	0.1098	0.1086	0
Modal	32	3.619	2.508E-05	0.0038	0	0.1098	0.1124	0
Modal	33	3.462	4.803E-05	0.0016	0	0.1098	0.114	0
Modal	34	3.406	0.0031	4.996E-05	0	0.1129	0.114	0
Modal	35	2.976	0	0	0	0.1129	0.114	0
Modal	36	2.931	0.0002	0.0001	0	0.1131	0.1141	0
Modal	37	2.837	0.0004	6.332E-07	0	0.1135	0.1141	0
Modal	38	2.775	1.22E-05	0.0004	0	0.1135	0.1145	0
Modal	39	2.659	1.83E-05	0.0001	0	0.1135	0.1146	0
Modal	40	2.591	0	0	0	0.1135	0.1146	0
Modal	41	2.297	0	0	0	0.1135	0.1146	0
Modal	42	2.252	0	0.0005	0	0.1135	0.1151	0
Modal	43	2.169	0.0003	4.062E-06	0	0.1138	0.1151	0
Modal	44	2.054	0.0007	0.0002	0	0.1145	0.1153	0
Modal	45	1.983	0.0004	0	0	0.1149	0.1153	0
Modal	46	1.859	0.0001	0.0009	0	0.115	0.1162	0
Modal	47	1.858	0.0002	0.0004	0	0.1151	0.1166	0
Modal	48	1.831	0.0004	0.0001	0	0.1155	0.1167	0
Modal	49	1.702	0.0003	0	0	0.1158	0.1167	0
Modal	50	1.323	0.0002	3.245E-05	0	0.116	0.1168	0
Modal	51	0.445	0.2371	0.1797	0	0.3531	0.2965	0
Modal	52	0.418	0.0797	0.5784	0	0.4328	0.8749	0
Modal	53	0.344	0.1337	0.0007	0	0.5665	0.8756	0
Modal	54	0.319	0.0002	0.0053	0	0.5667	0.8808	0
Modal	55	0.311	0.0096	0.0006	0	0.5763	0.8814	0
Modal	56	0.309	0.0205	0.0011	0	0.5968	0.8826	0
Modal	57	0.301	0.0101	7.222E-07	0	0.6068	0.8826	0
Modal	58	0.295	0.0011	0.002	0	0.608	0.8846	0
Modal	59	0.28	0.0084	0.0007	0	0.6163	0.8852	0
Modal	60	0.271	0.0003	0.0057	0	0.6166	0.8909	0
Modal	61	0.259	0.0176	0.0013	0	0.6341	0.8923	0
Modal	62	0.246	0.0011	0.0025	0	0.6353	0.8947	0
Modal	63	0.242	0.0009	0.0787	0	0.6362	0.9734	0
Modal	64	0.238	2.623E-06	0	0	0.6362	0.9734	0
Modal	65	0.23	0.003	0.0032	0	0.6391	0.9765	0
Modal	66	0.224	0.0081	0.0088	0	0.6472	0.9854	0
Modal	67	0.22	0.0255	1.236E-05	0	0.6727	0.9854	0

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2, continued)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	68	0.216	0.0018	2.093E-05	0	0.6746	0.9854	0
Modal	69	0.209	0.0012	0.0014	0	0.6757	0.9868	0
Modal	70	0.203	0.0014	5.195E-06	0	0.6772	0.9868	0
Modal	71	0.203	6.778E-06	0	0	0.6772	0.9868	0
Modal	72	0.2	0.0007	2.019E-05	0	0.6779	0.9868	0
Modal	73	0.198	5.395E-06	1.153E-06	0	0.6779	0.9868	0
Modal	74	0.197	0.0017	2.254E-06	0	0.6796	0.9868	0
Modal	75	0.196	0.0001	0.009	0	0.6797	0.9958	0
Modal	76	0.193	4.127E-05	1.251E-06	0	0.6797	0.9958	0
Modal	77	0.189	3.709E-05	1.195E-05	0	0.6797	0.9958	0
Modal	78	0.188	0	0	0	0.6797	0.9958	0
Modal	79	0.184	1.229E-05	1.774E-05	0	0.6798	0.9958	0
Modal	80	0.183	0.0015	6.674E-06	0	0.6812	0.9958	0
Modal	81	0.18	0.0011	0.0001	0	0.6823	0.9959	0
Modal	82	0.177	4.861E-05	0	0	0.6823	0.9959	0
Modal	83	0.176	0.0024	6.54E-06	0	0.6848	0.9959	0
Modal	84	0.176	9.727E-06	0.0034	0	0.6848	0.9993	0
Modal	85	0.175	9.686E-07	4.341E-06	0	0.6848	0.9993	0
Modal	86	0.173	0.0001	9.691E-06	0	0.6849	0.9993	0
Modal	87	0.173	1.942E-06	0.0001	0	0.6849	0.9995	0
Modal	88	0.171	5.081E-06	0.0003	0	0.6849	0.9998	0
Modal	89	0.169	0	0	0	0.6849	0.9998	0
Modal	90	0.166	6.467E-06	1.022E-06	0	0.6849	0.9998	0
Modal	91	0.166	0	0	0	0.6849	0.9998	0
Modal	92	0.165	2.574E-06	2.473E-06	0	0.6849	0.9998	0
Modal	93	0.161	0	0	0	0.6849	0.9998	0
Modal	94	0.159	5.052E-06	0.0001	0	0.6849	0.9998	0
Modal	95	0.159	0.0001	1.573E-06	0	0.685	0.9998	0
Modal	96	0.159	0	0	0	0.685	0.9998	0
Modal	97	0.154	1.548E-05	0	0	0.685	0.9998	0
Modal	98	0.154	0	0	0	0.685	0.9998	0
Modal	99	0.151	9.916E-06	8.392E-06	0	0.685	0.9999	0
Modal	100	0.149	2.199E-05	0	0	0.685	0.9999	0
Modal	101	0.149	3.409E-05	2.174E-05	0	0.6851	0.9999	0
Modal	102	0.143	1.968E-06	5.795E-06	0	0.6851	0.9999	0
Modal	103	0.141	0	0	0	0.6851	0.9999	0
Modal	104	0.139	0	0	0	0.6851	0.9999	0
Modal	105	0.135	0.0001	6.968E-07	0	0.6851	0.9999	0
Modal	106	0.134	1.269E-06	0	0	0.6851	0.9999	0
Modal	107	0.133	0	0	0	0.6851	0.9999	0
Modal	108	0.13	0.0001	2.412E-06	0	0.6852	0.9999	0
Modal	109	0.129	0.0001	5.716E-06	0	0.6853	0.9999	0
Modal	110	0.128	1.018E-06	8.78E-06	0	0.6853	0.9999	0
Modal	111	0.126	7.644E-07	1.195E-05	0	0.6853	0.9999	0
Modal	112	0.126	4.048E-05	0	0	0.6853	0.9999	0

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2, continued)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	113	0.12	3.481E-06	2.378E-06	0	0.6853	0.9999	0
Modal	114	0.118	0.0001	0	0	0.6854	0.9999	0
Modal	115	0.111	0.0001	1.364E-06	0	0.6855	0.9999	0
Modal	116	0.109	0.0004	0	0	0.6859	0.9999	0
Modal	117	0.109	0.0001	0	0	0.686	0.9999	0
Modal	118	0.107	3.024E-06	2.801E-06	0	0.686	0.9999	0
Modal	119	0.106	0.0007	2.234E-05	0	0.6867	0.9999	0
Modal	120	0.1	4.348E-06	8.449E-07	0	0.6867	0.9999	0
Modal	121	0.099	1.333E-05	0	0	0.6867	0.9999	0
Modal	122	0.089	0.0002	0	0	0.6869	0.9999	0
Modal	123	0.087	0.0002	0	0	0.6871	0.9999	0
Modal	124	0.086	5.278E-07	4.087E-05	0	0.6871	1	0
Modal	125	0.078	0.0007	2.278E-06	0	0.6878	1	0
Modal	126	0.067	0.2376	1.381E-06	0	0.9253	1	0
Modal	127	0.052	3.318E-06	0	0	0.9253	1	0
Modal	128	0.05	0	1.602E-06	0	0.9253	1	0
Modal	129	0.049	0	2.322E-06	0	0.9253	1	0
Modal	130	0.046	0.0024	0	0	0.9277	1	0

Table 5.6 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0	0	0.0099	0	0	0.0099
Modal	2	0.0158	0.0153	0.0013	0.0158	0.0153	0.0112
Modal	3	0.0153	0.0157	0.0006	0.0311	0.0311	0.0118
Modal	4	0.0029	0.0182	0.0139	0.034	0.0493	0.0256
Modal	5	0.0061	0.0037	0.0087	0.0401	0.053	0.0343
Modal	6	0	0	0	0.0401	0.053	0.0343
Modal	7	0.0001	0.014	0.0029	0.0402	0.067	0.0373
Modal	8	0.0093	0.0021	0.0146	0.0495	0.0691	0.0519
Modal	9	0.0033	0.0052	0.0152	0.0528	0.0742	0.0671
Modal	10	0.0062	0.0012	0.0043	0.059	0.0755	0.0714
Modal	11	0.0014	0.0054	0.009	0.0604	0.0809	0.0804
Modal	12	0.0095	0.0002	0.0056	0.0699	0.0811	0.086
Modal	13	0.0011	0.0099	0.0001	0.071	0.091	0.0861
Modal	14	0.0013	0.0008	4.474E-05	0.0723	0.0919	0.0861
Modal	15	0.0242	0	0.0013	0.0965	0.0919	0.0874
Modal	16	0.0018	0.0009	0.0003	0.0983	0.0928	0.0877
Modal	17	0	0.0178	0.0032	0.0983	0.1105	0.0909
Modal	18	0.0083	0.0045	0.0005	0.1066	0.115	0.0914
Modal	19	0	0	0	0.1066	0.115	0.0914
Modal	20	0.0062	0.0078	0.0001	0.1128	0.1228	0.0915
Modal	21	0.009	0.0018	0.0001	0.1218	0.1246	0.0916
Modal	22	0.0092	0.0006	0.0036	0.1309	0.1252	0.0952
Modal	23	0.0089	0.0081	0.0003	0.1399	0.1333	0.0955

Table 5.6 - Modal Participating Mass Ratios (Part 2 of 2, continued)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	24	0.0078	0.0092	0.0008	0.1477	0.1425	0.0963
Modal	25	0	0.0137	0.0068	0.1477	0.1562	0.1031
Modal	26	0.0163	0	0.0092	0.164	0.1562	0.1124
Modal	27	0	0	0.0002	0.164	0.1562	0.1126
Modal	28	0.0014	0	0.0008	0.1655	0.1562	0.1134
Modal	29	0.0001	0.0099	0.0009	0.1655	0.1661	0.1143
Modal	30	9.494E-07	1.003E-06	0	0.1655	0.1662	0.1143
Modal	31	0.0003	0.0025	0.0007	0.1659	0.1686	0.115
Modal	32	0.0057	4.293E-05	0.003	0.1716	0.1687	0.118
Modal	33	0.0024	0.0001	0.0008	0.174	0.1687	0.1188
Modal	34	0.0001	0.0047	0.0032	0.1741	0.1734	0.1221
Modal	35	0	0	0	0.1741	0.1734	0.1221
Modal	36	0.0001	0.0003	0.0005	0.1742	0.1737	0.1225
Modal	37	1.003E-06	0.0006	0.0001	0.1742	0.1743	0.1226
Modal	38	0.0006	1.687E-05	0.0003	0.1747	0.1743	0.1229
Modal	39	0.0002	2.873E-05	0.0002	0.175	0.1744	0.1231
Modal	40	0	0	0	0.175	0.1744	0.1231
Modal	41	0	0	0	0.175	0.1744	0.1231
Modal	42	0.0007	0	3.933E-05	0.1757	0.1744	0.1231
Modal	43	5.877E-06	0.0005	0.0004	0.1757	0.1749	0.1235
Modal	44	0.0003	0.001	3.664E-06	0.176	0.1759	0.1235
Modal	45	0	0.0005	0.0001	0.176	0.1764	0.1236
Modal	46	0.0013	0.0002	0.0001	0.1773	0.1766	0.1237
Modal	47	0.0006	0.0002	0.0002	0.1779	0.1768	0.1239
Modal	48	0.0001	0.0006	0.0002	0.178	0.1774	0.1241
Modal	49	0	0.0004	0.0002	0.178	0.1778	0.1243
Modal	50	4.329E-05	0.0003	0.0001	0.1781	0.1782	0.1244
Modal	51	0.0173	0.0136	0.3592	0.1954	0.1917	0.4836
Modal	52	0.0627	0.0087	0.078	0.2581	0.2005	0.5616
Modal	53	0.0006	0.3009	0.2286	0.2587	0.5014	0.7902
Modal	54	0.0003	0.0011	0.0029	0.259	0.5025	0.7932
Modal	55	0.0579	0.0121	0.0156	0.317	0.5146	0.8087
Modal	56	0.0063	0.018	0.0271	0.3232	0.5325	0.8358
Modal	57	1.229E-06	0.0109	0.0019	0.3232	0.5435	0.8377
Modal	58	0.0326	0.0001	0.0001	0.3558	0.5436	0.8378
Modal	59	0.004	0.0001	0.0003	0.3599	0.5436	0.838
Modal	60	0.0015	0.0073	0.0039	0.3614	0.5509	0.8419
Modal	61	0.0138	0.0428	0.0136	0.3751	0.5937	0.8555
Modal	62	0.021	2.232E-06	0.0001	0.3961	0.5937	0.8556
Modal	63	0.4013	5.113E-07	0.0004	0.7974	0.5937	0.8559
Modal	64	9.551E-07	0.0011	0.0004	0.7974	0.5949	0.8563
Modal	65	0.0132	0.0062	0.0056	0.8107	0.601	0.8619
Modal	66	0.0539	0.0518	0.0138	0.8646	0.6528	0.8757
Modal	67	0.0028	0.1088	0.0231	0.8674	0.7617	0.8988
Modal	68	0.0007	0.0047	0.0013	0.8681	0.7664	0.9002

Table 5.6 - Modal Participating Mass Ratios (Part 2 of 2, continued)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	69	0.0018	0.0049	0.0001	0.8699	0.7713	0.9003
Modal	70	0.0005	0.0011	0.0004	0.8704	0.7725	0.9007
Modal	71	0	5.836E-06	1.784E-06	0.8704	0.7725	0.9007
Modal	72	0.0005	0.0006	2.947E-06	0.8709	0.7731	0.9007
Modal	73	1.081E-05	0	0	0.8709	0.7731	0.9007
Modal	74	0.0001	0.0134	0.0023	0.8711	0.7865	0.903
Modal	75	0.0787	0.0003	0.0001	0.9498	0.7868	0.9031
Modal	76	1.413E-05	0.0007	0.0002	0.9498	0.7875	0.9033
Modal	77	0.0001	0.0026	0.0016	0.9498	0.79	0.905
Modal	78	0	0	0	0.9498	0.79	0.905
Modal	79	4.202E-05	0.0001	2.473E-06	0.9499	0.7901	0.905
Modal	80	3.986E-06	0.0029	0.0002	0.9499	0.793	0.9052
Modal	81	0.0004	0.0017	2.971E-05	0.9502	0.7947	0.9052
Modal	82	0	0.0001	3.435E-06	0.9502	0.7948	0.9052
Modal	83	0.0001	0.0056	0.0011	0.9503	0.8003	0.9064
Modal	84	0.0384	0.0001	2.604E-05	0.9888	0.8004	0.9064
Modal	85	3.144E-06	5.031E-06	0	0.9888	0.8004	0.9064
Modal	86	0.0001	0.0002	4.529E-05	0.9889	0.8007	0.9064
Modal	87	0.0017	3.268E-05	6.807E-06	0.9906	0.8007	0.9064
Modal	88	0.0016	0.0001	0	0.9922	0.8007	0.9064
Modal	89	0	0	0	0.9922	0.8007	0.9064
Modal	90	0.0007	5.855E-06	0.0001	0.9929	0.8008	0.9065
Modal	91	0	0	0	0.9929	0.8008	0.9065
Modal	92	3.15E-06	2.919E-06	4.437E-06	0.9929	0.8008	0.9066
Modal	93	6.918E-06	0	0	0.9929	0.8008	0.9066
Modal	94	0.0009	5.679E-07	0	0.9938	0.8008	0.9066
Modal	95	1.978E-05	0.0002	3.301E-05	0.9938	0.8009	0.9066
Modal	96	0	0	0	0.9938	0.8009	0.9066
Modal	97	4.912E-05	3.547E-05	0	0.9938	0.801	0.9066
Modal	98	0	0	0	0.9938	0.801	0.9066
Modal	99	2.584E-05	0.0007	0.0002	0.9939	0.8016	0.9068
Modal	100	0	1.232E-05	0	0.9939	0.8016	0.9068
Modal	101	4.287E-05	3.424E-05	2.252E-05	0.9939	0.8017	0.9068
Modal	102	2.451E-06	0.0001	8.732E-06	0.9939	0.8018	0.9068
Modal	103	0	5.133E-06	0	0.9939	0.8018	0.9068
Modal	104	0	0	0	0.9939	0.8018	0.9068
Modal	105	0.0014	0.0001	1.066E-05	0.9953	0.8019	0.9068
Modal	106	2.714E-05	0	7.927E-07	0.9953	0.8019	0.9068
Modal	107	1.914E-06	0	0	0.9953	0.8019	0.9068
Modal	108	0.0001	0.0001	0.0001	0.9954	0.802	0.9069
Modal	109	4.995E-05	0.0001	0.0001	0.9954	0.8021	0.9069
Modal	110	3.177E-05	7.053E-07	5.116E-06	0.9955	0.8021	0.907
Modal	111	0.0003	0	0	0.9957	0.8021	0.907
Modal	112	0	0.0001	1.512E-05	0.9957	0.8021	0.907
Modal	113	0.0001	9.837E-06	4.209E-06	0.9958	0.8022	0.907

Table 5.6 - Modal Participating Mass Ratios (Part 2 of 2, continued)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	114	2.806E-05	0.0001	0.0001	0.9958	0.8022	0.907
Modal	115	2.637E-06	0.0001	3.443E-05	0.9958	0.8023	0.9071
Modal	116	0.0013	0.0003	0.0001	0.9972	0.8027	0.9072
Modal	117	0	0.0001	2.921E-05	0.9972	0.8028	0.9072
Modal	118	0.0017	1.222E-05	5.884E-06	0.9989	0.8028	0.9072
Modal	119	0.0001	0.0005	0.0004	0.999	0.8033	0.9076
Modal	120	3.84E-05	2.593E-06	7.173E-07	0.999	0.8033	0.9076
Modal	121	9.521E-06	4.468E-06	1.118E-05	0.999	0.8033	0.9077
Modal	122	2.592E-05	0.0008	0.0002	0.9991	0.8041	0.9079
Modal	123	0	0.0002	0.0003	0.9991	0.8044	0.9082
Modal	124	2.548E-06	8.593E-07	0	0.9991	0.8044	0.9082
Modal	125	0.0009	0.0003	0.0003	1	0.8047	0.9085
Modal	126	0	0.1513	0.0706	1	0.956	0.9791
Modal	127	1.293E-06	2.961E-06	6.656E-07	1	0.956	0.9791
Modal	128	1.112E-06	0	0	1	0.956	0.9791
Modal	129	0	0	1.711E-06	1	0.956	0.9791
Modal	130	5.545E-07	0.0015	0.0003	1	0.9575	0.9794

Table 5.7 - Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	100	92.77
Modal	Acceleration	UY	100	100
Modal	Acceleration	UZ	0	0

Table 5.8 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	40657456	0.5	0.5	0	0
Modal	2	13.037	0.493	0.507	0	0
Modal	3	13.026	0.507	0.493	0	0
Modal	4	10.174	0.824	0.132	0	0.044
Modal	5	8.942	0.377	0.623	0	0
Modal	6	8.504	0.5	0.5	0	0
Modal	7	8.323	0.265	0.002	0	0.733
Modal	8	8.093	0.184	0.816	0	0
Modal	9	7.942	0.61	0.39	0	0
Modal	10	6.762	0.165	0.835	0	0
Modal	11	6.618	0.797	0.203	0	0
Modal	12	6.172	0.021	0.979	0	0
Modal	13	6.159	0.596	0.064	0	0.341
Modal	14	6.037	0.022	0.035	0	0.943
Modal	15	5.512	0	1	0	0
Modal	16	5.16	0.018	0.035	0	0.948
Modal	17	4.789	1	0	0	0

Table 5.8 - Modal Direction Factors (continued)

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	18	4.753	0.35	0.65	0	0
Modal	19	4.683	0.648	0.089	0	0.264
Modal	20	4.401	0.557	0.443	0	0
Modal	21	4.397	0.169	0.831	0	0
Modal	22	4.344	0.034	0.527	0	0.439
Modal	23	4.324	0.473	0.527	0	0
Modal	24	4.32	0.539	0.461	0	0
Modal	25	4.267	1	0	0	0
Modal	26	4.207	0	0.404	0	0.596
Modal	27	4.189	0	0	0	1
Modal	28	4.158	0	0.087	0	0.913
Modal	29	4.108	0.991	0.009	0	0
Modal	30	4.101	0.513	0.487	0	0
Modal	31	4.022	0.882	0.118	0	0
Modal	32	3.619	0.007	0.993	0	0
Modal	33	3.462	0.008	0.258	0	0.734
Modal	34	3.406	0.984	0.016	0	0
Modal	35	2.976	0.056	0.451	0	0.492
Modal	36	2.931	0.774	0.226	0	0
Modal	37	2.837	0.998	0.002	0	0
Modal	38	2.775	0.014	0.452	0	0.534
Modal	39	2.659	0.116	0.884	0	0
Modal	40	2.591	0.004	0.126	0	0.871
Modal	41	2.297	0	0.007	0	0.993
Modal	42	2.252	0	1	0	0
Modal	43	2.169	0.988	0.012	0	0
Modal	44	2.054	0.788	0.212	0	0
Modal	45	1.983	1	0	0	0
Modal	46	1.859	0.126	0.873	0	0.001
Modal	47	1.858	0.262	0.691	0	0.046
Modal	48	1.831	0.826	0.173	0	0
Modal	49	1.702	0.999	0	0	0.001
Modal	50	1.323	0.874	0.125	0	0.001
Modal	51	0.445	0.323	0.251	0	0.426
Modal	52	0.418	0.103	0.748	0	0.149
Modal	53	0.344	0.795	0.003	0	0.202
Modal	54	0.319	0.136	0.632	0	0.232
Modal	55	0.311	0.225	0.694	0	0.081
Modal	56	0.309	0.596	0.138	0	0.267
Modal	57	0.301	0.956	0	0	0.044
Modal	58	0.295	0.022	0.675	0	0.303
Modal	59	0.28	0.062	0.037	0	0.901
Modal	60	0.271	0.046	0.046	0	0.909
Modal	61	0.259	0.215	0.052	0	0.733
Modal	62	0.246	0.003	0.062	0	0.936

Table 5.8 - Modal Direction Factors (continued)

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	63	0.242	0.002	0.995	0	0.003
Modal	64	0.238	0.475	0	0	0.524
Modal	65	0.23	0.018	0.031	0	0.951
Modal	66	0.224	0.29	0.305	0	0.405
Modal	67	0.22	0.355	0.007	0	0.638
Modal	68	0.216	0.032	0.003	0	0.964
Modal	69	0.209	0.005	0.003	0	0.992
Modal	70	0.203	0.002	0	0	0.998
Modal	71	0.203	0.071	0.001	0	0.928
Modal	72	0.2	0.026	0.009	0	0.964
Modal	73	0.198	0.077	0.155	0	0.767
Modal	74	0.197	0.668	0.007	0	0.325
Modal	75	0.196	0.004	0.954	0	0.041
Modal	76	0.193	0.002	0	0	0.998
Modal	77	0.189	0.012	0	0	0.988
Modal	78	0.188	0.006	0.103	0	0.89
Modal	79	0.184	0.002	0.002	0	0.997
Modal	80	0.183	0.485	0.001	0	0.514
Modal	81	0.18	0.004	0.001	0	0.995
Modal	82	0.177	0.006	0	0	0.994
Modal	83	0.176	0.849	0.013	0	0.138
Modal	84	0.176	0.002	0.91	0	0.088
Modal	85	0.175	0.307	0.392	0	0.301
Modal	86	0.173	0.591	0.277	0	0.132
Modal	87	0.173	0.016	0.933	0	0.051
Modal	88	0.171	0.007	0.251	0	0.742
Modal	89	0.169	0.012	0.474	0	0.514
Modal	90	0.166	0.015	0.921	0	0.063
Modal	91	0.166	0.015	0.939	0	0.046
Modal	92	0.165	0.006	0.005	0	0.99
Modal	93	0.161	0.001	0.013	0	0.986
Modal	94	0.159	0.005	0.989	0	0.005
Modal	95	0.159	0.856	0.091	0	0.053
Modal	96	0.159	0.164	0.33	0	0.506
Modal	97	0.154	0.017	0.015	0	0.969
Modal	98	0.154	0.003	0.205	0	0.792
Modal	99	0.151	0.002	0	0	0.998
Modal	100	0.149	0.182	0	0	0.817
Modal	101	0.149	0.001	0.001	0	0.999
Modal	102	0.143	0.004	0	0	0.995
Modal	103	0.141	0.001	0	0	0.998
Modal	104	0.139	0.773	0	0	0.227
Modal	105	0.135	0.018	0.129	0	0.853
Modal	106	0.134	0.044	0.798	0	0.158
Modal	107	0.133	0.003	0.05	0	0.946

Table 5.8 - Modal Direction Factors (continued)

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	108	0.13	0.021	0.01	0	0.969
Modal	109	0.129	0.001	0	0	0.999
Modal	110	0.128	0.001	0.019	0	0.98
Modal	111	0.126	0.003	0.973	0	0.024
Modal	112	0.126	0.938	0.003	0	0.058
Modal	113	0.12	0	0.001	0	0.999
Modal	114	0.118	0.075	0.013	0	0.912
Modal	115	0.111	0.005	0	0	0.995
Modal	116	0.109	0.003	0.005	0	0.993
Modal	117	0.109	0.539	0	0	0.461
Modal	118	0.107	0.001	0.1	0	0.899
Modal	119	0.106	0.794	0.065	0	0.141
Modal	120	0.1	0.015	0.092	0	0.893
Modal	121	0.099	0.001	0.001	0	0.998
Modal	122	0.089	0.562	0.016	0	0.422
Modal	123	0.087	0	0	0	1
Modal	124	0.086	0	0.003	0	0.997
Modal	125	0.078	0.003	0.003	0	0.994
Modal	126	0.067	0.997	0	0	0.003
Modal	127	0.052	0.005	0.001	0	0.994
Modal	128	0.05	0	0	0	1
Modal	129	0.049	0	0	0	1
Modal	130	0.046	0.018	0	0	0.982

ANEXO 2 – INDICES DE SOBRE ESFUERZO

INDICE	ITEM	ELEMENTO
2.44	Momento Negativo	VG-204/Story2 Vano 1 Sec. 0 (5.3cm2)
2.37	Momento Negativo	VG-108/Story1 Vano 1 Sec. 0 (5.0cm2)
2.06	Momento Negativo	VG-216/Story2 Vano 4 Sec. 10 (3.8cm2)
2.03	Momento Negativo	VG-207/Story2 Vano 4 Sec. 10 (3.5cm2)
2.02	Momento Negativo	VG-207/Story2 Vano 1 Sec. 0 (3.5cm2)
1.96	Momento Negativo	VG-206/Story2 Vano 1 Sec. 0 (3.2cm2)
1.95	Momento Negativo	VG-216/Story2 Vano 1 Sec. 0 (3.2cm2)
1.91	Momento Negativo	VG-204/Story2 Vano 1 Sec. 2 (3.2cm2)
1.85	Momento Negativo	VG-213/Story2 Vano 4 Sec. 10 (2.8cm2)
1.81	Momento Negativo	VG-206/Story2 Vano 4 Sec. 10 (2.7cm2)
1.81	Momento Negativo	VG-101/Story1 Vano 1 Sec. 0 (2.7cm2)
1.77	Momento Negativo	VG-215/Story2 Vano 1 Sec. 0 (2.5cm2)
1.76	Momento Negativo	VG-101/Story1 Vano 1 Sec. 10 (2.5cm2)
1.73	Momento Negativo	VG-213/Story2 Vano 1 Sec. 0 (2.4cm2)
1.69	Momento Positivo	VG-212/Story2 Vano 1 Sec. 0 (1.4cm2)
1.68	Momento Positivo	VG-111/Story1 Vano 1 Sec. 0 (2.2cm2)
1.68	Momento Negativo	VG-109/Story1 Vano 1 Sec. 0 (2.2cm2)
1.68	Momento Negativo	VG-204/Story2 Vano 4 Sec. 10 (3.6cm2)
1.68	Momento Positivo	VG-109/Story1 Vano 1 Sec. 0 (2.0cm2)
1.65	Momento Negativo	VG-212/Story2 Vano 1 Sec. 0 (2.1cm2)
1.64	Momento Negativo	VG-103/Story1 Vano 6 Sec. 10 (2.1cm2)
1.63	Momento Positivo	VG-110/Story1 Vano 1 Sec. 0 (2.0cm2)
1.62	Momento Negativo	VG-215/Story2 Vano 4 Sec. 10 (2.0cm2)
1.61	Momento Negativo	VG-207/Story2 Vano 4 Sec. 8 (2.0cm2)
1.60	Momento Negativo	VG-216/Story2 Vano 4 Sec. 8 (2.0cm2)
1.60	Momento Negativo	VG-207/Story2 Vano 1 Sec. 2 (1.9cm2)
1.59	Momento Negativo	VG-111/Story1 Vano 5 Sec. 10 (1.9cm2)
1.56	Momento Negativo	VG-103/Story1 Vano 1 Sec. 0 (1.8cm2)
1.54	Momento Negativo	VG-211/Story2 Vano 1 Sec. 10 (1.7cm2)
1.54	Momento Negativo	VG-206/Story2 Vano 1 Sec. 2 (1.7cm2)
1.53	Momento Negativo	VG-203/Story2 Vano 7 Sec. 10 (1.7cm2)
1.53	Momento Negativo	VG-101/Story1 Vano 2 Sec. 0 (1.7cm2)
1.53	Momento Negativo	VG-114/Story1 Vano 4 Sec. 10 (1.7cm2)
1.52	Momento Positivo	VG-207/Story2 Vano 1 Sec. 9 (1.5cm2)
1.52	Momento Negativo	VG-201/Story2 Vano 1 Sec. 10 (1.7cm2)
1.51	Momento Negativo	VG-213/Story2 Vano 4 Sec. 8 (1.6cm2)
1.49	Momento Negativo	VG-212/Story2 Vano 4 Sec. 10 (2.1cm2)
1.49	Momento Negativo	VG-201/Story2 Vano 1 Sec. 0 (1.6cm2)
1.48	Momento Negativo	VG-219/Story2 Vano 1 Sec. 10 (1.5cm2)
1.47	Momento Positivo	VG-109/Story1 Vano 1 Sec. 2 (1.5cm2)
1.45	Momento Negativo	VG-216/Story2 Vano 1 Sec. 2 (1.4cm2)
1.45	Momento Positivo	VG-108/Story1 Vano 1 Sec. 0 (1.5cm2)
1.41	Momento Negativo	VG-108/Story1 Vano 1 Sec. 2 (1.4cm2)
1.41	Momento Negativo	VG-103/Story1 Vano 6 Sec. 0 (1.8cm2)
1.41	Momento Negativo	VG-206/Story2 Vano 4 Sec. 8 (1.3cm2)
1.41	Momento Positivo	VG-114/Story1 Vano 1 Sec. 0 (1.3cm2)
1.41	Momento Negativo	VG-104/Story1 Vano 5 Sec. 10 (1.3cm2)
1.38	Momento Negativo	VG-204/Story2 Vano 1 Sec. 4 (1.2cm2)
1.37	Momento Positivo	VG-211/Story2 Vano 1 Sec. 0 (1.2cm2)
1.37	Momento Negativo	VG-215/Story2 Vano 1 Sec. 2 (1.2cm2)
1.37	Momento Positivo	VG-111/Story1 Vano 1 Sec. 2 (1.2cm2)
1.37	Momento Positivo	VG-109/Story1 Vano 1 Sec. 4 (1.1cm2)
1.37	Momento Positivo	VG-207/Story2 Vano 1 Sec. 8 (1.1cm2)
1.36	Momento Positivo	VG-110/Story1 Vano 1 Sec. 2 (1.1cm2)
1.36	Momento Negativo	VG-202/Story2 Vano 1 Sec. 0 (1.1cm2)
1.36	Momento Negativo	VG-103/Story1 Vano 1 Sec. 10 (1.5cm2)
1.35	Momento Negativo	VG-110/Story1 Vano 3 Sec. 10 (1.1cm2)
1.34	Momento Negativo	VG-111/Story1 Vano 1 Sec. 10 (1.1cm2)
1.34	Momento Negativo	VG-108/Story1 Vano 4 Sec. 10 (1.1cm2)
1.34	Momento Negativo	VG-110/Story1 Vano 1 Sec. 10 (1.1cm2)
1.34	Momento Positivo	VG-207/Story2 Vano 2 Sec. 0 (1.2cm2)
1.33	Momento Negativo	VG-213/Story2 Vano 1 Sec. 2 (1.0cm2)
1.33	Momento Negativo	VG-204/Story2 Vano 4 Sec. 8 (1.6cm2)
1.31	Momento Negativo	VG-103/Story1 Vano 5 Sec. 10 (1.3cm2)
1.31	Momento Negativo	VG-114/Story1 Vano 1 Sec. 10 (0.9cm2)
1.30	Momento Positivo	VG-219/Story2 Vano 1 Sec. 0 (0.9cm2)
1.30	Momento Negativo	VG-108/Story1 Vano 5 Sec. 10 (0.9cm2)
1.30	Momento Negativo	VG-105/Story1 Vano 2 Sec. 0 (1.3cm2)
1.30	Momento Negativo	VG-105/Story1 Vano 2 Sec. 10 (1.2cm2)
1.30	Momento Negativo	VG-109/Story1 Vano 5 Sec. 10 (0.9cm2)
1.30	Momento Negativo	VG-212/Story2 Vano 1 Sec. 2 (0.9cm2)
1.29	Momento Positivo	VG-218/Story2 Vano 1 Sec. 0 (0.9cm2)
1.29	Momento Negativo	VG-111/Story1 Vano 5 Sec. 8 (0.9cm2)
1.29	Momento Negativo	VG-219/Story2 Vano 1 Sec. 0 (0.8cm2)
1.29	Momento Negativo	VG-114/Story1 Vano 3 Sec. 10 (0.9cm2)
1.28	Momento Negativo	VG-111/Story1 Vano 4 Sec. 0 (0.8cm2)

1.27	Momento Negativo	VG-209/Story2	Vano	7	Sec.	10	(0.8cm2)
1.27	Momento Negativo	VG-103/Story1	Vano	3	Sec.	10	(0.8cm2)
1.27	Momento Negativo	VG-103/Story1	Vano	2	Sec.	0	(1.1cm2)
1.26	Momento Negativo	VG-211/Story2	Vano	1	Sec.	0	(0.7cm2)
1.25	Momento Negativo	VG-215/Story2	Vano	4	Sec.	8	(0.8cm2)
1.25	Momento Negativo	VG-212/Story2	Vano	4	Sec.	8	(1.0cm2)
1.25	Momento Negativo	VG-114/Story1	Vano	4	Sec.	0	(0.8cm2)
1.25	Momento Negativo	VG-212/Story2	Vano	8	Sec.	0	(0.8cm2)
1.25	Momento Positivo	VG-113/Story1	Vano	1	Sec.	0	(0.7cm2)
1.24	Momento Negativo	VG-105/Story1	Vano	6	Sec.	0	(1.0cm2)
1.24	Momento Negativo	VG-111/Story1	Vano	1	Sec.	0	(0.7cm2)
1.24	Momento Negativo	VG-104/Story1	Vano	1	Sec.	10	(1.0cm2)
1.23	Momento Negativo	VG-113/Story1	Vano	1	Sec.	10	(0.7cm2)
1.22	Momento Negativo	VG-109/Story1	Vano	1	Sec.	2	(0.7cm2)
1.22	Momento Negativo	VG-203/Story2	Vano	4	Sec.	0	(0.9cm2)
1.22	Momento Negativo	VG-108/Story1	Vano	4	Sec.	0	(0.7cm2)
1.22	Momento Negativo	VG-209/Story2	Vano	4	Sec.	0	(0.9cm2)
1.22	Momento Negativo	VG-103/Story1	Vano	3	Sec.	0	(0.6cm2)
1.21	Momento Negativo	VG-108/Story1	Vano	5	Sec.	0	(0.6cm2)
1.21	Momento Negativo	VG-202/Story2	Vano	1	Sec.	10	(0.6cm2)
1.21	Momento Negativo	VG-203/Story2	Vano	7	Sec.	8	(0.6cm2)
1.19	Momento Positivo	VG-109/Story1	Vano	1	Sec.	10	(0.6cm2)
1.19	Momento Negativo	VG-216/Story2	Vano	4	Sec.	6	(0.6cm2)
1.19	Momento Negativo	VG-113/Story1	Vano	3	Sec.	0	(0.8cm2)
1.19	Momento Negativo	VG-109/Story1	Vano	2	Sec.	10	(0.6cm2)
1.19	Momento Negativo	VG-207/Story2	Vano	4	Sec.	6	(0.6cm2)
1.18	Momento Negativo	VG-110/Story1	Vano	3	Sec.	0	(0.7cm2)
1.18	Momento Negativo	VG-104/Story1	Vano	5	Sec.	0	(0.9cm2)
1.18	Momento Negativo	VG-213/Story2	Vano	4	Sec.	6	(0.5cm2)
1.18	Momento Positivo	VG-114/Story1	Vano	1	Sec.	2	(0.5cm2)
1.17	Momento Negativo	VG-207/Story2	Vano	1	Sec.	4	(0.5cm2)
1.17	Momento Positivo	VG-211/Story2	Vano	1	Sec.	2	(0.5cm2)
1.17	Momento Negativo	VG-111/Story1	Vano	3	Sec.	10	(0.5cm2)
1.17	Momento Negativo	VG-108/Story1	Vano	2	Sec.	10	(0.7cm2)
1.17	Momento Negativo	VG-103/Story1	Vano	2	Sec.	10	(0.5cm2)
1.16	Momento Negativo	VG-105/Story1	Vano	6	Sec.	10	(0.5cm2)
1.16	Momento Negativo	VG-212/Story2	Vano	7	Sec.	10	(0.5cm2)
1.15	Momento Negativo	VG-109/Story1	Vano	4	Sec.	0	(0.6cm2)
1.15	Momento Negativo	VG-212/Story2	Vano	5	Sec.	0	(0.6cm2)
1.15	Momento Negativo	VG-202/Story2	Vano	5	Sec.	10	(0.4cm2)
1.15	Momento Negativo	VG-108/Story1	Vano	3	Sec.	10	(0.4cm2)
1.15	Momento Positivo	VG-212/Story2	Vano	1	Sec.	10	(0.6cm2)
1.15	Momento Positivo	VG-212/Story2	Vano	2	Sec.	0	(0.6cm2)
1.14	Momento Positivo	VG-111/Story1	Vano	5	Sec.	10	(1.0cm2)
1.14	Momento Positivo	VG-113/Story1	Vano	1	Sec.	2	(0.4cm2)
1.14	Momento Positivo	VG-105/Story1	Vano	6	Sec.	6	(0.4cm2)
1.13	Momento Negativo	VG-104/Story1	Vano	1	Sec.	0	(0.4cm2)
1.13	Momento Negativo	VG-203/Story2	Vano	1	Sec.	0	(0.4cm2)
1.13	Momento Positivo	VG-219/Story2	Vano	1	Sec.	2	(0.4cm2)
1.13	Momento Positivo	VG-212/Story2	Vano	1	Sec.	2	(0.4cm2)
1.13	Momento Positivo	VG-212/Story2	Vano	2	Sec.	2	(0.5cm2)
1.12	Momento Negativo	VG-206/Story2	Vano	1	Sec.	4	(0.4cm2)
1.12	Momento Negativo	VG-218/Story2	Vano	1	Sec.	0	(0.3cm2)
1.12	Momento Negativo	VG-110/Story1	Vano	1	Sec.	0	(0.3cm2)
1.12	Momento Negativo	VG-103/Story1	Vano	4	Sec.	0	(0.3cm2)
1.11	Momento Negativo	VG-113/Story1	Vano	3	Sec.	10	(0.3cm2)
1.10	Momento Positivo	VG-212/Story2	Vano	2	Sec.	4	(0.4cm2)
1.10	Momento Positivo	VG-212/Story2	Vano	1	Sec.	8	(0.3cm2)
1.10	Momento Negativo	VG-104/Story1	Vano	3	Sec.	0	(0.3cm2)
1.09	Momento Positivo	VG-111/Story1	Vano	3	Sec.	5	(0.3cm2)
1.09	Momento Positivo	VG-207/Story2	Vano	2	Sec.	2	(0.3cm2)
1.09	Momento Negativo	VG-104/Story1	Vano	3	Sec.	10	(0.3cm2)
1.09	Momento Positivo	VG-109/Story1	Vano	4	Sec.	5	(0.2cm2)
1.09	Momento Negativo	VG-202/Story2	Vano	5	Sec.	0	(0.2cm2)
1.09	Momento Negativo	VG-103/Story1	Vano	5	Sec.	8	(0.3cm2)
1.08	Momento Negativo	VG-210/Story2	Vano	1	Sec.	0	(0.3cm2)
1.08	Momento Negativo	VG-109/Story1	Vano	5	Sec.	0	(0.3cm2)
1.08	Momento Negativo	VG-209/Story2	Vano	3	Sec.	10	(0.2cm2)
1.07	Momento Negativo	VG-111/Story1	Vano	3	Sec.	0	(0.2cm2)
1.07	Momento Negativo	VG-209/Story2	Vano	1	Sec.	0	(0.2cm2)
1.07	Momento Positivo	VG-212/Story2	Vano	10	Sec.	2	(0.2cm2)
1.07	Momento Positivo	VG-207/Story2	Vano	2	Sec.	10	(0.2cm2)
1.07	Momento Positivo	VG-207/Story2	Vano	3	Sec.	0	(0.2cm2)
1.06	Momento Positivo	VG-109/Story1	Vano	1	Sec.	7	(0.1cm2)
1.06	Momento Negativo	VG-114/Story1	Vano	3	Sec.	0	(0.2cm2)
1.06	Momento Negativo	VG-111/Story1	Vano	4	Sec.	2	(0.1cm2)
1.05	Momento Positivo	VG-218/Story2	Vano	1	Sec.	2	(0.1cm2)
1.05	Momento Positivo	VG-104/Story1	Vano	5	Sec.	6	(0.1cm2)
1.05	Momento Positivo	VG-103/Story1	Vano	6	Sec.	6	(0.1cm2)
1.05	Momento Positivo	VG-109/Story1	Vano	2	Sec.	0	(0.1cm2)
1.05	Momento Negativo	VG-114/Story1	Vano	4	Sec.	8	(0.1cm2)
1.04	Momento Negativo	VG-109/Story1	Vano	4	Sec.	10	(0.1cm2)
1.04	Momento Positivo	VG-209/Story2	Vano	5	Sec.	10	(0.1cm2)

1.04	Momento Positivo	VG-209/Story2 Vano 6 Sec. 0 (0.1cm2)
1.04	Momento Positivo	VG-212/Story2 Vano 1 Sec. 6 (0.1cm2)
1.04	Momento Positivo	VG-110/Story1 Vano 3 Sec. 5 (0.1cm2)
1.04	Momento Positivo	VG-212/Story2 Vano 2 Sec. 7 (0.1cm2)
1.03	Momento Negativo	VG-114/Story1 Vano 1 Sec. 0 (0.3cm2)
1.03	Momento Negativo	VG-210/Story2 Vano 5 Sec. 0 (0.1cm2)
1.03	Momento Positivo	VG-114/Story1 Vano 3 Sec. 5 (0.1cm2)
1.03	Momento Negativo	VG-210/Story2 Vano 1 Sec. 10 (0.1cm2)
1.02	Momento Negativo	VG-101/Story1 Vano 2 Sec. 2 (0.1cm2)
1.02	Momento Negativo	VG-101/Story1 Vano 5 Sec. 10 (0.1cm2)
1.02	Momento Positivo	VG-207/Story2 Vano 1 Sec. 6 (0.0cm2)
1.02	Momento Negativo	VG-104/Story1 Vano 4 Sec. 0 (0.1cm2)
1.02	Momento Positivo	VG-212/Story2 Vano 2 Sec. 10 (0.0cm2)
1.02	Momento Positivo	VG-212/Story2 Vano 3 Sec. 0 (0.0cm2)
1.02	Momento Negativo	VG-104/Story1 Vano 2 Sec. 0 (0.0cm2)
1.02	Momento Negativo	VG-206/Story2 Vano 4 Sec. 6 (0.1cm2)
1.02	Momento Negativo	VG-212/Story2 Vano 4 Sec. 6 (0.0cm2)
1.02	Momento Negativo	VG-212/Story2 Vano 11 Sec. 10 (0.0cm2)
1.01	Momento Positivo	VG-213/Story2 Vano 3 Sec. 1 (-0.1cm2)
1.01	Momento Negativo	VG-211/Story2 Vano 2 Sec. 0 (0.1cm2)
1.00	Momento Positivo	VG-101/Story1 Vano 1 Sec. 4 (0.1cm2)
1.00	Momento Negativo	VG-113/Story1 Vano 2 Sec. 10 (-0.1cm2)
1.00	Momento Positivo	VG-101/Story1 Vano 1 Sec. 3 (0.1cm2)
1.00	Momento Negativo	VG-111/Story1 Vano 5 Sec. 6 (0.1cm2)
1.00	Momento Positivo	VG-207/Story2 Vano 2 Sec. 8 (-0.2cm2)
1.00	Momento Positivo	VG-203/Story2 Vano 5 Sec. 10 (-0.1cm2)
1.00	Momento Positivo	VG-209/Story2 Vano 6 Sec. 2 (-0.1cm2)
1.00	Momento Positivo	VG-203/Story2 Vano 6 Sec. 0 (-0.1cm2)
1.00	Momento Negativo	VG-202/Story2 Vano 4 Sec. 10 (0.1cm2)
1.00	Momento Positivo	VG-209/Story2 Vano 6 Sec. 5 (-0.1cm2)
0.99	Momento Negativo	VG-209/Story2 Vano 7 Sec. 8 (0.1cm2)
0.99	Momento Positivo	VG-209/Story2 Vano 6 Sec. 7 (-0.1cm2)
0.99	Momento Negativo	VG-203/Story2 Vano 4 Sec. 2 (-0.1cm2)
0.99	Momento Positivo	VG-207/Story2 Vano 3 Sec. 2 (-0.2cm2)
0.98	Momento Positivo	VG-209/Story2 Vano 6 Sec. 9 (-0.2cm2)
0.98	Momento Negativo	VG-209/Story2 Vano 4 Sec. 2 (-0.2cm2)
0.98	Momento Negativo	VG-204/Story2 Vano 4 Sec. 6 (-0.2cm2)
0.98	Momento Positivo	VG-204/Story2 Vano 3 Sec. 0 (-0.6cm2)
0.98	Momento Negativo	VG-215/Story2 Vano 1 Sec. 4 (0.1cm2)
0.98	Momento Positivo	VG-104/Story1 Vano 1 Sec. 4 (-0.1cm2)
0.98	Momento Positivo	VG-215/Story2 Vano 3 Sec. 0 (-0.4cm2)
0.98	Momento Positivo	VG-206/Story2 Vano 2 Sec. 10 (-0.4cm2)
0.98	Momento Positivo	VG-206/Story2 Vano 3 Sec. 0 (-0.4cm2)
0.97	Momento Positivo	VG-213/Story2 Vano 3 Sec. 2 (-0.3cm2)
0.97	Momento Positivo	VG-215/Story2 Vano 2 Sec. 10 (-0.4cm2)
0.97	Momento Positivo	VG-212/Story2 Vano 10 Sec. 4 (0.1cm2)
0.97	Momento Negativo	VG-212/Story2 Vano 8 Sec. 2 (0.1cm2)
0.97	Momento Negativo	VG-202/Story2 Vano 2 Sec. 0 (0.1cm2)
0.96	Momento Positivo	VG-113/Story1 Vano 3 Sec. 5 (-0.2cm2)
0.96	Momento Positivo	VG-110/Story1 Vano 1 Sec. 4 (0.1cm2)
0.96	Momento Negativo	VG-219/Story2 Vano 2 Sec. 0 (0.1cm2)
0.96	Momento Negativo	VG-216/Story2 Vano 1 Sec. 4 (0.1cm2)
0.96	Momento Negativo	VG-203/Story2 Vano 3 Sec. 10 (-0.3cm2)
0.96	Momento Negativo	VG-212/Story2 Vano 1 Sec. 4 (0.1cm2)
0.96	Momento Negativo	VG-104/Story1 Vano 2 Sec. 10 (0.1cm2)
0.95	Momento Positivo	VG-108/Story1 Vano 1 Sec. 10 (-1.0cm2)
0.95	Momento Positivo	VG-111/Story1 Vano 1 Sec. 4 (0.1cm2)
0.95	Momento Positivo	VG-203/Story2 Vano 6 Sec. 2 (-0.3cm2)
0.95	Momento Positivo	VG-204/Story2 Vano 2 Sec. 10 (-0.9cm2)
0.95	Momento Positivo	VG-209/Story2 Vano 5 Sec. 6 (-0.3cm2)
0.95	Momento Positivo	VG-207/Story2 Vano 2 Sec. 6 (-0.5cm2)
0.94	Momento Positivo	VG-216/Story2 Vano 3 Sec. 2 (-0.8cm2)
0.94	Momento Positivo	VG-204/Story2 Vano 3 Sec. 2 (-0.8cm2)
0.94	Momento Negativo	VG-109/Story1 Vano 3 Sec. 10 (-0.3cm2)
0.94	Momento Negativo	VG-213/Story2 Vano 1 Sec. 4 (0.1cm2)
0.93	Momento Negativo	VG-210/Story2 Vano 4 Sec. 10 (0.1cm2)
0.93	Momento Positivo	VG-213/Story2 Vano 2 Sec. 10 (-0.7cm2)
0.93	Momento Negativo	VG-210/Story2 Vano 5 Sec. 10 (0.1cm2)
0.93	Momento Positivo	VG-113/Story1 Vano 1 Sec. 4 (0.1cm2)
0.93	Momento Negativo	VG-101/Story1 Vano 5 Sec. 0 (0.1cm2)
0.92	Momento Negativo	VG-114/Story1 Vano 2 Sec. 10 (-0.4cm2)
0.92	Momento Positivo	VG-203/Story2 Vano 1 Sec. 0 (0.3cm2)
0.92	Momento Positivo	VG-216/Story2 Vano 3 Sec. 0 (-1.2cm2)
0.92	Momento Positivo	VG-203/Story2 Vano 6 Sec. 5 (-0.4cm2)
0.92	Momento Negativo	VG-113/Story1 Vano 1 Sec. 0 (0.3cm2)
0.92	Momento Positivo	VG-203/Story2 Vano 6 Sec. 7 (-0.4cm2)
0.92	Momento Positivo	VG-215/Story2 Vano 3 Sec. 2 (-0.8cm2)
0.91	Momento Positivo	VG-101/Story1 Vano 5 Sec. 10 (0.1cm2)
0.91	Momento Positivo	VG-206/Story2 Vano 3 Sec. 2 (-0.8cm2)
0.91	Momento Positivo	VG-203/Story2 Vano 6 Sec. 9 (-0.5cm2)
0.91	Momento Positivo	VG-212/Story2 Vano 3 Sec. 2 (-0.5cm2)
0.91	Momento Negativo	VG-101/Story1 Vano 2 Sec. 10 (0.1cm2)
0.91	Momento Positivo	VG-105/Story1 Vano 6 Sec. 7 (0.1cm2)

0.91	Momento Positivo	VG-105/Story1 Vano 2 Sec. 4 (-0.5cm2)
0.90	Momento Positivo	VG-207/Story2 Vano 3 Sec. 4 (-0.7cm2)
0.90	Momento Negativo	VG-101/Story1 Vano 4 Sec. 10 (0.1cm2)
0.90	Momento Positivo	VG-101/Story1 Vano 1 Sec. 0 (0.1cm2)
0.90	Momento Positivo	VG-103/Story1 Vano 1 Sec. 4 (-0.5cm2)
0.90	Momento Negativo	VG-104/Story1 Vano 4 Sec. 10 (-0.7cm2)
0.89	Momento Negativo	VG-210/Story2 Vano 2 Sec. 0 (0.1cm2)
0.89	Momento Negativo	VG-108/Story1 Vano 3 Sec. 0 (-0.5cm2)
0.89	Momento Positivo	VG-216/Story2 Vano 2 Sec. 10 (-1.5cm2)
0.89	Momento Positivo	VG-114/Story1 Vano 1 Sec. 4 (0.1cm2)
0.89	Momento Positivo	VG-213/Story2 Vano 3 Sec. 4 (-0.8cm2)
0.89	Momento Positivo	VG-203/Story2 Vano 5 Sec. 6 (-0.4cm2)
0.89	Momento Negativo	VG-212/Story2 Vano 12 Sec. 0 (-0.6cm2)
0.89	Momento Positivo	VG-201/Story2 Vano 1 Sec. 7 (0.1cm2)
0.89	Momento Negativo	VG-215/Story2 Vano 4 Sec. 6 (0.1cm2)
0.88	Momento Negativo	VG-203/Story2 Vano 7 Sec. 6 (0.1cm2)
0.88	Momento Positivo	VG-108/Story1 Vano 4 Sec. 5 (0.1cm2)
0.88	Momento Positivo	VG-209/Story2 Vano 7 Sec. 0 (-0.6cm2)
0.87	Momento Positivo	VG-206/Story2 Vano 4 Sec. 10 (2.0cm2)
0.87	Momento Positivo	VG-203/Story2 Vano 7 Sec. 0 (-0.7cm2)
0.87	Momento Positivo	VG-201/Story2 Vano 1 Sec. 3 (0.1cm2)
0.87	Momento Positivo	VG-201/Story2 Vano 1 Sec. 5 (0.1cm2)
0.86	Momento Negativo	VG-103/Story1 Vano 5 Sec. 6 (-0.7cm2)
0.86	Momento Positivo	VG-103/Story1 Vano 6 Sec. 7 (-0.4cm2)
0.86	Momento Positivo	VG-216/Story2 Vano 3 Sec. 4 (-1.4cm2)
0.86	Momento Positivo	VG-206/Story2 Vano 2 Sec. 8 (-1.3cm2)
0.85	Momento Positivo	VG-108/Story1 Vano 2 Sec. 0 (-2.0cm2)
0.85	Momento Negativo	VG-101/Story1 Vano 4 Sec. 0 (0.1cm2)
0.85	Momento Positivo	VG-215/Story2 Vano 3 Sec. 4 (-1.2cm2)
0.85	Momento Positivo	VG-213/Story2 Vano 1 Sec. 10 (-1.1cm2)
0.85	Momento Positivo	VG-209/Story2 Vano 5 Sec. 8 (-0.8cm2)
0.85	Momento Negativo	VG-111/Story1 Vano 4 Sec. 4 (0.1cm2)
0.84	Momento Negativo	VG-202/Story2 Vano 2 Sec. 10 (0.1cm2)
0.84	Momento Positivo	VG-206/Story2 Vano 3 Sec. 4 (-1.3cm2)
0.84	Momento Positivo	VG-104/Story1 Vano 5 Sec. 7 (-0.8cm2)
0.84	Momento Negativo	VG-203/Story2 Vano 1 Sec. 10 (0.1cm2)
0.84	Momento Positivo	VG-212/Story2 Vano 10 Sec. 1 (-0.8cm2)
0.84	Momento Positivo	VG-109/Story1 Vano 2 Sec. 2 (0.1cm2)
0.84	Momento Negativo	VG-105/Story1 Vano 3 Sec. 0 (-0.8cm2)
0.83	Momento Positivo	VG-101/Story1 Vano 2 Sec. 10 (0.1cm2)
0.83	Momento Positivo	VG-213/Story2 Vano 1 Sec. 8 (-1.0cm2)
0.83	Momento Negativo	VG-218/Story2 Vano 3 Sec. 10 (0.1cm2)
0.83	Momento Negativo	VG-110/Story1 Vano 2 Sec. 10 (-0.8cm2)
0.83	Momento Positivo	VG-211/Story2 Vano 1 Sec. 4 (0.1cm2)
0.82	Momento Positivo	VG-213/Story2 Vano 3 Sec. 7 (-1.2cm2)
0.82	Momento Negativo	VG-111/Story1 Vano 2 Sec. 10 (-0.8cm2)
0.82	Momento Negativo	VG-219/Story2 Vano 5 Sec. 0 (0.1cm2)
0.82	Momento Positivo	VG-215/Story2 Vano 2 Sec. 8 (-1.7cm2)
0.82	Momento Positivo	VG-204/Story2 Vano 2 Sec. 8 (-2.5cm2)
0.82	Momento Positivo	VG-114/Story1 Vano 4 Sec. 0 (0.1cm2)
0.81	Momento Positivo	VG-212/Story2 Vano 12 Sec. 10 (0.1cm2)
0.81	Momento Positivo	VG-203/Story2 Vano 5 Sec. 8 (-1.0cm2)
0.81	Momento Negativo	VG-202/Story2 Vano 3 Sec. 0 (0.1cm2)
0.81	Momento Positivo	VG-219/Story2 Vano 1 Sec. 4 (0.1cm2)
0.80	Momento Negativo	VG-114/Story1 Vano 4 Sec. 2 (0.1cm2)
0.80	Momento Positivo	VG-213/Story2 Vano 2 Sec. 0 (-1.5cm2)
0.80	Momento Positivo	VG-114/Story1 Vano 4 Sec. 10 (0.1cm2)
0.80	Momento Positivo	VG-204/Story2 Vano 3 Sec. 4 (-2.2cm2)
0.80	Momento Negativo	VG-109/Story1 Vano 3 Sec. 0 (0.1cm2)
0.80	Momento Negativo	VG-212/Story2 Vano 5 Sec. 2 (-0.9cm2)
0.79	Momento Negativo	VG-105/Story1 Vano 1 Sec. 10 (-1.0cm2)
0.79	Momento Positivo	VG-212/Story2 Vano 3 Sec. 4 (-0.9cm2)
0.79	Momento Positivo	VG-213/Story2 Vano 1 Sec. 6 (-1.1cm2)
0.79	Momento Positivo	VG-204/Story2 Vano 1 Sec. 10 (-2.2cm2)
0.79	Momento Negativo	VG-209/Story2 Vano 1 Sec. 10 (0.1cm2)
0.78	Momento Negativo	VG-212/Story2 Vano 11 Sec. 8 (-0.9cm2)
0.78	Momento Positivo	VG-216/Story2 Vano 2 Sec. 8 (-3.0cm2)
0.78	Momento Positivo	VG-202/Story2 Vano 1 Sec. 3 (0.1cm2)
0.78	Momento Positivo	VG-213/Story2 Vano 3 Sec. 9 (-1.5cm2)
0.78	Momento Positivo	VG-218/Story2 Vano 1 Sec. 4 (0.1cm2)
0.78	Momento Positivo	VG-213/Story2 Vano 2 Sec. 8 (-2.0cm2)
0.78	Momento Positivo	VG-101/Story1 Vano 5 Sec. 8 (0.1cm2)
0.78	Momento Positivo	VG-108/Story1 Vano 5 Sec. 10 (0.1cm2)
0.77	Momento Positivo	VG-109/Story1 Vano 5 Sec. 10 (0.1cm2)
0.77	Momento Negativo	VG-109/Story1 Vano 1 Sec. 4 (0.1cm2)
0.77	Momento Positivo	VG-209/Story2 Vano 1 Sec. 0 (0.3cm2)
0.77	Momento Positivo	VG-206/Story2 Vano 3 Sec. 7 (-1.8cm2)
0.77	Momento Positivo	VG-108/Story1 Vano 1 Sec. 8 (-2.7cm2)
0.77	Momento Positivo	VG-215/Story2 Vano 3 Sec. 7 (-1.8cm2)
0.76	Momento Positivo	VG-207/Story2 Vano 3 Sec. 7 (-1.7cm2)
0.76	Momento Positivo	VG-202/Story2 Vano 1 Sec. 4 (0.1cm2)
0.76	Momento Negativo	VG-106/Story1 Vano 1 Sec. 10 (-0.4cm2)
0.76	Momento Positivo	VG-204/Story2 Vano 2 Sec. 0 (-2.6cm2)

0.76	Momento Negativo	VG-109/Story1	Vano	5	Sec.	8	(0.1cm2)
0.76	Momento Positivo	VG-201/Story2	Vano	1	Sec.	9	(0.1cm2)
0.76	Momento Positivo	VG-209/Story2	Vano	5	Sec.	3	(-0.1cm2)
0.76	Momento Negativo	VG-203/Story2	Vano	4	Sec.	4	(-0.9cm2)
0.75	Momento Positivo	VG-216/Story2	Vano	1	Sec.	10	(-2.5cm2)
0.75	Momento Negativo	VG-109/Story1	Vano	2	Sec.	8	(0.1cm2)
0.75	Momento Negativo	VG-203/Story2	Vano	2	Sec.	0	(0.1cm2)
0.75	Momento Negativo	VG-217/Story2	Vano	1	Sec.	10	(0.1cm2)
0.75	Momento Negativo	VG-209/Story2	Vano	4	Sec.	4	(-0.9cm2)
0.75	Momento Positivo	VG-206/Story2	Vano	3	Sec.	9	(-1.9cm2)
0.75	Momento Positivo	VG-212/Story2	Vano	3	Sec.	10	(0.0cm2)
0.75	Momento Positivo	VG-210/Story2	Vano	1	Sec.	3	(0.1cm2)
0.74	Momento Negativo	VG-214/Story2	Vano	1	Sec.	10	(0.1cm2)
0.74	Momento Positivo	VG-215/Story2	Vano	3	Sec.	9	(-1.9cm2)
0.74	Momento Positivo	VG-210/Story2	Vano	5	Sec.	7	(0.1cm2)
0.74	Momento Negativo	VG-212/Story2	Vano	7	Sec.	8	(0.1cm2)
0.74	Momento Positivo	VG-206/Story2	Vano	2	Sec.	0	(-1.8cm2)
0.74	Momento Positivo	VG-201/Story2	Vano	1	Sec.	1	(0.1cm2)
0.74	Momento Positivo	VG-108/Story1	Vano	1	Sec.	2	(-1.9cm2)
0.74	Momento Negativo	VG-114/Story1	Vano	2	Sec.	0	(0.1cm2)
0.74	Momento Negativo	VG-219/Story2	Vano	5	Sec.	10	(0.1cm2)
0.74	Momento Negativo	VG-106/Story1	Vano	2	Sec.	0	(-0.4cm2)
0.74	Momento Negativo	VG-202/Story2	Vano	4	Sec.	0	(0.1cm2)
0.74	Momento Negativo	VG-210/Story2	Vano	2	Sec.	10	(0.1cm2)
0.73	Momento Negativo	VG-106/Story1	Vano	2	Sec.	10	(-0.4cm2)
0.73	Momento Negativo	VG-101/Story1	Vano	3	Sec.	10	(0.1cm2)
0.73	Momento Positivo	VG-103/Story1	Vano	1	Sec.	3	(-1.3cm2)
0.73	Momento Negativo	VG-103/Story1	Vano	2	Sec.	2	(-0.9cm2)
0.73	Momento Positivo	VG-104/Story1	Vano	3	Sec.	5	(0.1cm2)
0.73	Momento Negativo	VG-105/Story1	Vano	5	Sec.	10	(-0.9cm2)
0.73	Momento Positivo	VG-212/Story2	Vano	9	Sec.	10	(-1.6cm2)
0.73	Momento Positivo	VG-216/Story2	Vano	2	Sec.	0	(-2.9cm2)
0.73	Momento Positivo	VG-213/Story2	Vano	1	Sec.	0	(0.2cm2)
0.73	Momento Positivo	VG-206/Story2	Vano	1	Sec.	10	(-1.8cm2)
0.73	Momento Negativo	VG-108/Story1	Vano	5	Sec.	8	(0.1cm2)
0.72	Momento Positivo	VG-213/Story2	Vano	2	Sec.	2	(-2.3cm2)
0.72	Momento Negativo	VG-209/Story2	Vano	7	Sec.	6	(0.1cm2)
0.72	Momento Positivo	VG-204/Story2	Vano	4	Sec.	10	(1.1cm2)
0.72	Momento Positivo	VG-101/Story1	Vano	2	Sec.	0	(0.1cm2)
0.72	Momento Negativo	VG-211/Story2	Vano	5	Sec.	0	(0.1cm2)
0.72	Momento Positivo	VG-204/Story2	Vano	2	Sec.	2	(-3.4cm2)
0.72	Momento Positivo	VG-207/Story2	Vano	3	Sec.	9	(-2.1cm2)
0.72	Momento Negativo	VG-203/Story2	Vano	3	Sec.	0	(0.1cm2)
0.71	Momento Negativo	VG-209/Story2	Vano	3	Sec.	8	(-0.9cm2)
0.71	Momento Positivo	VG-216/Story2	Vano	3	Sec.	7	(-2.5cm2)
0.71	Momento Negativo	VG-203/Story2	Vano	1	Sec.	2	(0.1cm2)
0.71	Momento Negativo	VG-202/Story2	Vano	3	Sec.	10	(0.1cm2)
0.71	Momento Positivo	VG-204/Story2	Vano	2	Sec.	6	(-3.9cm2)
0.71	Momento Positivo	VG-110/Story1	Vano	3	Sec.	7	(-0.7cm2)
0.71	Momento Positivo	VG-215/Story2	Vano	2	Sec.	0	(-2.1cm2)
0.71	Momento Positivo	VG-210/Story2	Vano	1	Sec.	4	(0.1cm2)
0.71	Momento Positivo	VG-207/Story2	Vano	4	Sec.	0	(-2.2cm2)
0.71	Momento Positivo	VG-210/Story2	Vano	5	Sec.	6	(0.1cm2)
0.71	Momento Positivo	VG-206/Story2	Vano	2	Sec.	6	(-2.8cm2)
0.71	Momento Positivo	VG-204/Story2	Vano	3	Sec.	7	(-3.0cm2)
0.71	Momento Positivo	VG-209/Story2	Vano	7	Sec.	2	(-1.3cm2)
0.71	Momento Positivo	VG-216/Story2	Vano	2	Sec.	6	(-4.0cm2)
0.71	Cortante	VG-204/Story2	Vano	1	Sec.	0	(-4.1Ton)
0.71	Momento Positivo	VG-204/Story2	Vano	1	Sec.	8	(-2.6cm2)
0.70	Momento Negativo	VG-218/Story2	Vano	1	Sec.	2	(0.1cm2)
0.70	Momento Positivo	VG-207/Story2	Vano	1	Sec.	3	(-0.1cm2)
0.70	Momento Negativo	VG-211/Story2	Vano	4	Sec.	10	(0.1cm2)
0.70	Momento Negativo	VG-210/Story2	Vano	4	Sec.	0	(0.1cm2)
0.70	Momento Positivo	VG-203/Story2	Vano	5	Sec.	3	(-0.1cm2)
0.70	Momento Positivo	VG-215/Story2	Vano	2	Sec.	6	(-2.9cm2)
0.70	Momento Positivo	VG-113/Story1	Vano	3	Sec.	7	(-1.3cm2)
0.70	Momento Positivo	VG-103/Story1	Vano	6	Sec.	10	(0.1cm2)
0.70	Momento Positivo	VG-101/Story1	Vano	1	Sec.	7	(0.1cm2)
0.70	Momento Negativo	VG-212/Story2	Vano	8	Sec.	4	(0.1cm2)
0.70	Cortante	VG-204/Story2	Vano	1	Sec.	2	(-4.2Ton)
0.70	Cortante	VG-216/Story2	Vano	1	Sec.	0	(-4.2Ton)
0.69	Momento Negativo	VG-210/Story2	Vano	3	Sec.	0	(0.1cm2)
0.69	Cortante	VG-204/Story2	Vano	1	Sec.	4	(-4.3Ton)
0.69	Cortante	VG-216/Story2	Vano	1	Sec.	2	(-4.3Ton)
0.69	Momento Positivo	VG-202/Story2	Vano	1	Sec.	1	(0.1cm2)
0.69	Momento Positivo	VG-216/Story2	Vano	2	Sec.	2	(-3.7cm2)
0.69	Momento Positivo	VG-213/Story2	Vano	2	Sec.	6	(-2.9cm2)
0.69	Momento Negativo	VG-103/Story1	Vano	4	Sec.	2	(0.1cm2)
0.68	Momento Positivo	VG-103/Story1	Vano	2	Sec.	10	(0.1cm2)
0.68	Cortante	VG-216/Story2	Vano	1	Sec.	4	(-4.4Ton)
0.68	Momento Negativo	VG-211/Story2	Vano	6	Sec.	0	(0.1cm2)
0.68	Momento Positivo	VG-212/Story2	Vano	4	Sec.	0	(-0.3cm2)
0.68	Momento Positivo	VG-206/Story2	Vano	2	Sec.	2	(-2.6cm2)

0.68	Momento Positivo	VG-206/Story2	Vano	4	Sec.	0	(-2.3cm2)
0.68	Momento Negativo	VG-211/Story2	Vano	1	Sec.	8	(0.1cm2)
0.68	Momento Positivo	VG-202/Story2	Vano	5	Sec.	7	(0.1cm2)
0.68	Momento Negativo	VG-101/Story1	Vano	3	Sec.	0	(0.1cm2)
0.68	Momento Positivo	VG-101/Story1	Vano	4	Sec.	0	(0.1cm2)
0.68	Cortante	VG-204/Story2	Vano	1	Sec.	7	(-4.5Ton)
0.68	Momento Negativo	VG-113/Story1	Vano	2	Sec.	0	(0.1cm2)
0.67	Momento Positivo	VG-105/Story1	Vano	2	Sec.	3	(-1.0cm2)
0.67	Momento Positivo	VG-204/Story2	Vano	3	Sec.	9	(-3.2cm2)
0.67	Momento Positivo	VG-215/Story2	Vano	1	Sec.	10	(-2.2cm2)
0.67	Cortante	VG-204/Story2	Vano	1	Sec.	9	(-4.6Ton)
0.67	Momento Negativo	VG-209/Story2	Vano	1	Sec.	2	(0.1cm2)
0.67	Momento Negativo	VG-108/Story1	Vano	3	Sec.	8	(0.1cm2)
0.67	Momento Positivo	VG-206/Story2	Vano	1	Sec.	8	(-1.7cm2)
0.67	Cortante	VG-216/Story2	Vano	1	Sec.	7	(-4.6Ton)
0.67	Momento Positivo	VG-216/Story2	Vano	1	Sec.	8	(-2.8cm2)
0.66	Momento Negativo	VG-210/Story2	Vano	3	Sec.	10	(0.1cm2)
0.66	Momento Positivo	VG-203/Story2	Vano	7	Sec.	2	(-1.3cm2)
0.66	Momento Positivo	VG-207/Story2	Vano	1	Sec.	0	(0.8cm2)
0.66	Momento Positivo	VG-212/Story2	Vano	9	Sec.	8	(-1.9cm2)
0.66	Momento Negativo	VG-103/Story1	Vano	2	Sec.	8	(0.1cm2)
0.66	Momento Positivo	VG-108/Story1	Vano	2	Sec.	2	(-3.7cm2)
0.66	Cortante	VG-204/Story2	Vano	4	Sec.	10	(-4.7Ton)
0.66	Cortante	VG-216/Story2	Vano	1	Sec.	9	(-4.7Ton)
0.66	Momento Positivo	VG-210/Story2	Vano	1	Sec.	1	(0.1cm2)
0.66	Momento Positivo	VG-215/Story2	Vano	2	Sec.	2	(-2.9cm2)
0.66	Cortante	VG-216/Story2	Vano	4	Sec.	10	(-4.8Ton)
0.66	Momento Positivo	VG-215/Story2	Vano	4	Sec.	0	(-2.5cm2)
0.66	Momento Positivo	VG-216/Story2	Vano	3	Sec.	9	(-2.9cm2)
0.66	Momento Positivo	VG-204/Story2	Vano	4	Sec.	0	(-3.4cm2)
0.66	Momento Positivo	VG-210/Story2	Vano	5	Sec.	9	(0.1cm2)
0.66	Momento Positivo	VG-104/Story1	Vano	1	Sec.	3	(-1.5cm2)
0.65	Momento Positivo	VG-111/Story1	Vano	3	Sec.	7	(-0.7cm2)
0.65	Cortante	VG-204/Story2	Vano	4	Sec.	8	(-4.8Ton)
0.65	Cortante	VG-216/Story2	Vano	4	Sec.	8	(-4.8Ton)
0.65	Cortante	VG-108/Story1	Vano	1	Sec.	0	(-4.8Ton)
0.65	Momento Positivo	VG-203/Story2	Vano	1	Sec.	2	(0.1cm2)
0.65	Momento Negativo	VG-211/Story2	Vano	5	Sec.	10	(0.1cm2)
0.65	Momento Negativo	VG-209/Story2	Vano	2	Sec.	0	(0.1cm2)
0.65	Momento Positivo	VG-202/Story2	Vano	5	Sec.	9	(0.1cm2)
0.65	Momento Positivo	VG-206/Story2	Vano	1	Sec.	0	(1.4cm2)
0.65	Momento Negativo	VG-211/Story2	Vano	2	Sec.	2	(0.1cm2)
0.65	Momento Negativo	VG-219/Story2	Vano	3	Sec.	0	(0.1cm2)
0.65	Cortante	VG-216/Story2	Vano	4	Sec.	6	(-4.9Ton)
0.65	Momento Positivo	VG-202/Story2	Vano	4	Sec.	0	(0.1cm2)
0.65	Cortante	VG-204/Story2	Vano	4	Sec.	6	(-4.9Ton)
0.65	Momento Positivo	VG-202/Story2	Vano	5	Sec.	6	(0.1cm2)
0.64	Momento Positivo	VG-213/Story2	Vano	4	Sec.	0	(-2.8cm2)
0.64	Cortante	VG-108/Story1	Vano	1	Sec.	2	(-5.0Ton)
0.64	Momento Positivo	VG-107/Story1	Vano	1	Sec.	5	(-0.7cm2)
0.64	Momento Positivo	VG-207/Story2	Vano	4	Sec.	10	(1.3cm2)
0.64	Momento Negativo	VG-219/Story2	Vano	1	Sec.	8	(0.1cm2)
0.64	Momento Positivo	VG-108/Story1	Vano	1	Sec.	4	(-2.7cm2)
0.64	Momento Positivo	VG-104/Story1	Vano	5	Sec.	0	(0.1cm2)
0.64	Cortante	VG-216/Story2	Vano	4	Sec.	3	(-5.0Ton)
0.63	Cortante	VG-108/Story1	Vano	1	Sec.	4	(-5.1Ton)
0.63	Momento Positivo	VG-212/Story2	Vano	9	Sec.	1	(0.1cm2)
0.63	Cortante	VG-216/Story2	Vano	4	Sec.	1	(-5.1Ton)
0.63	Cortante	VG-104/Story1	Vano	5	Sec.	0	(-5.1Ton)
0.63	Cortante	VG-204/Story2	Vano	4	Sec.	3	(-5.1Ton)
0.62	Momento Positivo	VG-111/Story1	Vano	4	Sec.	0	(0.1cm2)
0.62	Momento Negativo	VG-203/Story2	Vano	2	Sec.	10	(0.1cm2)
0.62	Momento Positivo	VG-204/Story2	Vano	1	Sec.	6	(-2.7cm2)
0.62	Cortante	VG-204/Story2	Vano	4	Sec.	1	(-5.3Ton)
0.62	Momento Positivo	VG-203/Story2	Vano	3	Sec.	0	(0.1cm2)
0.62	Momento Positivo	VG-108/Story1	Vano	5	Sec.	8	(0.1cm2)
0.62	Momento Positivo	VG-213/Story2	Vano	1	Sec.	3	(-1.4cm2)
0.62	Momento Positivo	VG-203/Story2	Vano	1	Sec.	10	(0.1cm2)
0.62	Cortante	VG-108/Story1	Vano	2	Sec.	10	(-5.3Ton)
0.61	Momento Negativo	VG-211/Story2	Vano	3	Sec.	0	(0.1cm2)
0.61	Momento Positivo	VG-212/Story2	Vano	10	Sec.	7	(-0.8cm2)
0.61	Momento Positivo	VG-101/Story1	Vano	4	Sec.	10	(0.1cm2)
0.61	Momento Negativo	VG-203/Story2	Vano	3	Sec.	8	(-0.9cm2)
0.61	Momento Positivo	VG-109/Story1	Vano	2	Sec.	4	(0.1cm2)
0.61	Momento Positivo	VG-103/Story1	Vano	6	Sec.	1	(0.1cm2)
0.61	Momento Negativo	VG-218/Story2	Vano	1	Sec.	10	(0.1cm2)
0.61	Momento Positivo	VG-215/Story2	Vano	1	Sec.	8	(-1.9cm2)
0.61	Momento Positivo	VG-109/Story1	Vano	4	Sec.	7	(-0.7cm2)
0.61	Momento Positivo	VG-111/Story1	Vano	5	Sec.	8	(0.1cm2)
0.61	Momento Positivo	VG-219/Story2	Vano	5	Sec.	8	(0.1cm2)
0.61	Momento Positivo	VG-108/Story1	Vano	5	Sec.	0	(0.1cm2)
0.61	Cortante	VG-108/Story1	Vano	2	Sec.	8	(-5.5Ton)
0.61	Momento Negativo	VG-212/Story2	Vano	6	Sec.	0	(0.1cm2)

0.60	Momento Positivo	VG-211/Story2 Vano 6 Sec. 10 (0.1cm2)
0.60	Momento Negativo	VG-209/Story2 Vano 3 Sec. 0 (0.1cm2)
0.60	Momento Negativo	VG-219/Story2 Vano 2 Sec. 2 (0.1cm2)
0.60	Momento Negativo	VG-202/Story2 Vano 2 Sec. 2 (0.1cm2)
0.60	Cortante	VG-108/Story1 Vano 2 Sec. 6 (-5.6Ton)
0.60	Momento Positivo	VG-108/Story1 Vano 4 Sec. 3 (0.1cm2)
0.60	Momento Negativo	VG-111/Story1 Vano 1 Sec. 2 (0.1cm2)
0.60	Momento Positivo	VG-207/Story2 Vano 4 Sec. 2 (-2.9cm2)
0.60	Momento Negativo	VG-105/Story1 Vano 1 Sec. 8 (-1.4cm2)
0.59	Momento Positivo	VG-109/Story1 Vano 5 Sec. 8 (0.1cm2)
0.59	Momento Negativo	VG-212/Story2 Vano 12 Sec. 10 (0.1cm2)
0.59	Momento Negativo	VG-112/Story1 Vano 1 Sec. 0 (-0.7cm2)
0.59	Momento Negativo	VG-114/Story1 Vano 4 Sec. 6 (0.1cm2)
0.59	Momento Positivo	VG-212/Story2 Vano 9 Sec. 6 (-1.9cm2)
0.59	Momento Positivo	VG-212/Story2 Vano 9 Sec. 2 (-0.4cm2)
0.59	Momento Negativo	VG-202/Story2 Vano 4 Sec. 8 (0.1cm2)
0.59	Momento Positivo	VG-219/Story2 Vano 5 Sec. 6 (0.1cm2)
0.59	Momento Positivo	VG-216/Story2 Vano 4 Sec. 0 (-3.7cm2)
0.59	Momento Negativo	VG-108/Story1 Vano 5 Sec. 2 (0.1cm2)
0.59	Momento Negativo	VG-108/Story1 Vano 2 Sec. 8 (-0.9cm2)
0.59	Momento Positivo	VG-103/Story1 Vano 1 Sec. 1 (0.1cm2)
0.59	Momento Positivo	VG-202/Story2 Vano 2 Sec. 10 (0.1cm2)
0.59	Momento Positivo	VG-212/Story2 Vano 8 Sec. 10 (0.1cm2)
0.59	Momento Positivo	VG-101/Story1 Vano 1 Sec. 9 (0.1cm2)
0.59	Momento Positivo	VG-211/Story2 Vano 2 Sec. 0 (0.1cm2)
0.58	Momento Negativo	VG-110/Story1 Vano 1 Sec. 2 (0.1cm2)
0.58	Momento Positivo	VG-103/Story1 Vano 3 Sec. 5 (0.1cm2)
0.58	Momento Positivo	VG-103/Story1 Vano 1 Sec. 7 (-0.9cm2)
0.58	Momento Negativo	VG-219/Story2 Vano 4 Sec. 10 (0.1cm2)
0.58	Momento Positivo	VG-219/Story2 Vano 5 Sec. 9 (0.1cm2)
0.58	Momento Positivo	VG-209/Story2 Vano 3 Sec. 0 (0.1cm2)
0.58	Momento Negativo	VG-101/Story1 Vano 5 Sec. 8 (0.1cm2)
0.58	Momento Positivo	VG-212/Story2 Vano 12 Sec. 8 (0.0cm2)
0.58	Cortante	VG-105/Story1 Vano 2 Sec. 0 (-5.8Ton)
0.58	Momento Positivo	VG-219/Story2 Vano 2 Sec. 0 (0.1cm2)
0.58	Momento Positivo	VG-216/Story2 Vano 1 Sec. 6 (-3.1cm2)
0.58	Momento Positivo	VG-111/Story1 Vano 3 Sec. 3 (-0.6cm2)
0.57	Momento Positivo	VG-109/Story1 Vano 4 Sec. 3 (-0.6cm2)
0.57	Momento Positivo	VG-103/Story1 Vano 3 Sec. 3 (0.1cm2)
0.57	Momento Negativo	VG-217/Story2 Vano 1 Sec. 0 (0.3cm2)
0.57	Momento Negativo	VG-101/Story1 Vano 2 Sec. 8 (0.1cm2)
0.56	Momento Positivo	VG-105/Story1 Vano 2 Sec. 1 (0.1cm2)
0.56	Momento Negativo	VG-109/Story1 Vano 5 Sec. 2 (-0.9cm2)
0.56	Momento Positivo	VG-107/Story1 Vano 1 Sec. 3 (-0.7cm2)
0.56	Momento Positivo	VG-114/Story1 Vano 3 Sec. 7 (-0.7cm2)
0.56	Momento Positivo	VG-103/Story1 Vano 4 Sec. 0 (0.1cm2)
0.56	Momento Positivo	VG-101/Story1 Vano 5 Sec. 6 (0.1cm2)
0.56	Momento Negativo	VG-214/Story2 Vano 1 Sec. 0 (0.3cm2)
0.56	Cortante	VG-104/Story1 Vano 5 Sec. 2 (-6.2Ton)
0.55	Momento Negativo	VG-212/Story2 Vano 4 Sec. 3 (-0.9cm2)
0.55	Momento Negativo	VG-101/Story1 Vano 2 Sec. 4 (0.1cm2)
0.55	Momento Positivo	VG-204/Story2 Vano 4 Sec. 2 (-4.0cm2)
0.55	Momento Positivo	VG-212/Story2 Vano 10 Sec. 9 (-0.9cm2)
0.55	Momento Negativo	VG-212/Story2 Vano 11 Sec. 6 (-0.9cm2)
0.55	Momento Negativo	VG-219/Story2 Vano 4 Sec. 0 (0.1cm2)
0.55	Momento Positivo	VG-212/Story2 Vano 3 Sec. 8 (-1.6cm2)
0.54	Momento Negativo	VG-218/Story2 Vano 2 Sec. 0 (0.1cm2)
0.54	Momento Negativo	VG-111/Story1 Vano 4 Sec. 7 (0.1cm2)
0.54	Momento Positivo	VG-215/Story2 Vano 4 Sec. 2 (-3.1cm2)
0.54	Cortante	VG-206/Story2 Vano 1 Sec. 0 (-6.4Ton)
0.54	Momento Negativo	VG-101/Story1 Vano 4 Sec. 8 (0.1cm2)
0.54	Momento Negativo	VG-212/Story2 Vano 7 Sec. 0 (0.1cm2)
0.54	Cortante	VG-104/Story1 Vano 5 Sec. 10 (-6.4Ton)
0.54	Momento Negativo	VG-210/Story2 Vano 4 Sec. 8 (0.1cm2)
0.54	Momento Positivo	VG-209/Story2 Vano 7 Sec. 4 (-1.9cm2)
0.54	Momento Positivo	VG-206/Story2 Vano 4 Sec. 2 (-3.4cm2)
0.54	Momento Positivo	VG-110/Story1 Vano 3 Sec. 3 (-0.6cm2)
0.54	Momento Positivo	VG-211/Story2 Vano 2 Sec. 2 (0.1cm2)
0.54	Cortante	VG-215/Story2 Vano 1 Sec. 0 (-6.4Ton)
0.54	Momento Positivo	VG-105/Story1 Vano 6 Sec. 0 (0.1cm2)
0.54	Momento Positivo	VG-212/Story2 Vano 5 Sec. 10 (0.1cm2)
0.54	Momento Negativo	VG-106/Story1 Vano 1 Sec. 8 (-0.4cm2)
0.54	Momento Positivo	VG-209/Story2 Vano 1 Sec. 2 (0.1cm2)
0.54	Cortante	VG-206/Story2 Vano 1 Sec. 2 (-6.5Ton)
0.53	Momento Positivo	VG-113/Story1 Vano 3 Sec. 3 (-1.6cm2)
0.53	Cortante	VG-215/Story2 Vano 1 Sec. 2 (-6.5Ton)
0.53	Momento Positivo	VG-215/Story2 Vano 4 Sec. 10 (1.3cm2)
0.53	Momento Positivo	VG-104/Story1 Vano 1 Sec. 7 (-0.5cm2)
0.53	Momento Positivo	VG-109/Story1 Vano 5 Sec. 0 (0.1cm2)
0.53	Momento Positivo	VG-114/Story1 Vano 3 Sec. 3 (-0.6cm2)
0.53	Cortante	VG-206/Story2 Vano 1 Sec. 4 (-6.6Ton)
0.53	Cortante	VG-207/Story2 Vano 1 Sec. 0 (-6.6Ton)
0.52	Momento Positivo	VG-108/Story1 Vano 2 Sec. 4 (-4.1cm2)

0.52	Momento Positivo	VG-212/Story2	Vano	11	Sec.	0	(-0.9cm2)
0.52	Momento Negativo	VG-105/Story1	Vano	4	Sec.	10	(0.1cm2)
0.52	Momento Negativo	VG-104/Story1	Vano	2	Sec.	2	(-0.9cm2)
0.52	Momento Positivo	VG-212/Story2	Vano	7	Sec.	0	(0.1cm2)
0.52	Momento Positivo	VG-101/Story1	Vano	3	Sec.	0	(0.1cm2)
0.52	Momento Positivo	VG-101/Story1	Vano	5	Sec.	0	(0.1cm2)
0.52	Cortante	VG-215/Story2	Vano	1	Sec.	4	(-6.6Ton)
0.52	Momento Positivo	VG-209/Story2	Vano	1	Sec.	10	(0.1cm2)
0.52	Momento Positivo	VG-219/Story2	Vano	2	Sec.	2	(0.1cm2)
0.52	Momento Positivo	VG-207/Story2	Vano	4	Sec.	4	(-2.7cm2)
0.52	Cortante	VG-207/Story2	Vano	1	Sec.	2	(-6.7Ton)
0.52	Momento Negativo	VG-110/Story1	Vano	2	Sec.	0	(0.1cm2)
0.52	Cortante	VG-213/Story2	Vano	4	Sec.	10	(-6.7Ton)
0.52	Momento Positivo	VG-101/Story1	Vano	3	Sec.	10	(0.1cm2)
0.52	Cortante	VG-213/Story2	Vano	1	Sec.	0	(-6.7Ton)
0.52	Cortante	VG-103/Story1	Vano	1	Sec.	10	(-6.7Ton)
0.52	Momento Positivo	VG-206/Story2	Vano	1	Sec.	6	(-1.6cm2)
0.52	Momento Positivo	VG-202/Story2	Vano	1	Sec.	7	(0.1cm2)
0.52	Cortante	VG-207/Story2	Vano	4	Sec.	10	(-6.7Ton)
0.52	Momento Positivo	VG-113/Story1	Vano	3	Sec.	0	(0.1cm2)
0.52	Cortante	VG-113/Story1	Vano	3	Sec.	0	(-6.7Ton)
0.52	Momento Negativo	VG-101/Story1	Vano	4	Sec.	2	(0.1cm2)
0.52	Momento Negativo	VG-210/Story2	Vano	2	Sec.	2	(0.1cm2)
0.51	Momento Negativo	VG-212/Story2	Vano	5	Sec.	4	(-0.6cm2)
0.51	Momento Negativo	VG-218/Story2	Vano	3	Sec.	0	(0.1cm2)
0.51	Momento Positivo	VG-105/Story1	Vano	6	Sec.	3	(-0.4cm2)
0.51	Momento Positivo	VG-211/Story2	Vano	1	Sec.	10	(0.1cm2)
0.51	Cortante	VG-213/Story2	Vano	4	Sec.	8	(-6.8Ton)
0.51	Momento Positivo	VG-110/Story1	Vano	3	Sec.	0	(0.1cm2)
0.51	Momento Positivo	VG-104/Story1	Vano	3	Sec.	3	(0.1cm2)
0.51	Cortante	VG-105/Story1	Vano	6	Sec.	0	(-6.8Ton)
0.51	Cortante	VG-207/Story2	Vano	1	Sec.	4	(-6.8Ton)
0.51	Cortante	VG-207/Story2	Vano	4	Sec.	8	(-6.8Ton)
0.51	Momento Negativo	VG-213/Story2	Vano	4	Sec.	3	(0.1cm2)
0.51	Cortante	VG-213/Story2	Vano	1	Sec.	2	(-6.8Ton)
0.51	Momento Positivo	VG-211/Story2	Vano	6	Sec.	8	(0.1cm2)
0.51	Cortante	VG-213/Story2	Vano	4	Sec.	6	(-6.8Ton)
0.51	Cortante	VG-206/Story2	Vano	1	Sec.	7	(-6.8Ton)
0.51	Momento Positivo	VG-114/Story1	Vano	4	Sec.	8	(0.1cm2)
0.51	Momento Negativo	VG-105/Story1	Vano	4	Sec.	0	(0.1cm2)
0.51	Momento Negativo	VG-108/Story1	Vano	3	Sec.	2	(-0.9cm2)
0.51	Cortante	VG-215/Story2	Vano	1	Sec.	7	(-6.9Ton)
0.51	Cortante	VG-207/Story2	Vano	4	Sec.	6	(-6.9Ton)
0.51	Momento Positivo	VG-103/Story1	Vano	3	Sec.	0	(0.1cm2)
0.51	Momento Negativo	VG-111/Story1	Vano	2	Sec.	0	(0.1cm2)
0.50	Momento Positivo	VG-103/Story1	Vano	6	Sec.	3	(-0.6cm2)
0.50	Momento Positivo	VG-217/Story2	Vano	1	Sec.	7	(0.1cm2)
0.50	Cortante	VG-105/Story1	Vano	2	Sec.	10	(-6.9Ton)
0.50	Momento Negativo	VG-211/Story2	Vano	6	Sec.	10	(0.1cm2)
0.50	Cortante	VG-213/Story2	Vano	1	Sec.	4	(-6.9Ton)
0.50	Momento Positivo	VG-213/Story2	Vano	4	Sec.	2	(-4.1cm2)
0.50	Momento Positivo	VG-214/Story2	Vano	1	Sec.	7	(0.1cm2)
0.50	Cortante	VG-206/Story2	Vano	4	Sec.	10	(-6.9Ton)
0.50	Momento Positivo	VG-111/Story1	Vano	4	Sec.	2	(0.1cm2)
0.50	Momento Positivo	VG-109/Story1	Vano	4	Sec.	0	(0.1cm2)

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0.81	Flexo-Compresión	C-1	Vano	1	Arriba
0.80	Flexo-Compresión	C-2	Vano	1	Arriba
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0.78	Flexo-Compresión	E-3	Vano	1	Abajo
0.78	Flexo-Compresión	B-5	Vano	1	Arriba
0.78	Flexo-Compresión	C-4	Vano	1	Arriba
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0.77	Flexo-Compresión	F-3	Vano	2	Abajo
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0.75	Flexo-Compresión	D-1	Vano	1	Arriba
0.75	Flexo-Compresión	A-1	Vano	1	Arriba
0.74	Flexo-Compresión	B-3	Vano	1	Abajo
0.74	Flexo-Compresión	B-7	Vano	2	Arriba
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