

INFORME DE VULNERABILIDAD GRUPO II EDIFICIO JARDÍN INFANTIL

REALIZAR LA CONTRATACIÓN DE LAS CONSULTORÍAS PARA LA EJECUCIÓN DE LOS ESTUDIOS TÉCNICOS Y PROYECTOS DE RESTAURACIÓN DE VARIOS INMUEBLES QUE HACEN PARTE DEL COMPLEJO HOSPITALARIO SAN JUAN DE DIOS EN LA CIUDAD DE BOGOTÁ, DE ACUERDO CON LO ESTABLECIDO PARA CADA GRUPO

CONSORCIO

CONURMA – RINCÓN - LÓPEZ
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CONTRATO DE CONSULTORÍA NÚMERO 3020 -2022

CONSORCIO RESTAURO SJD
CONTRATO DE INTERVENTORÍA No. 3054 DE 2022

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ENERO DE 2024

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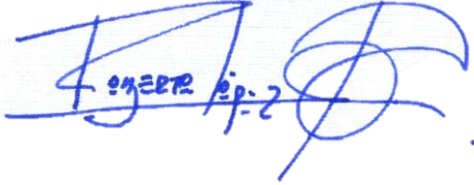
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VERSIÓN	FECHA DE MODIFICACIÓN	CAPÍTULO MODIFICADO	OBSERVACIONES
0.0	06-12-2022		Versión inicial
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2.0	22-02-2023		Ajuste elementos de Cubierta y Cimentación
3.0	28-02-2023		Ajuste de Microzonificación
4.0	31-05-2023		VERSIÓN FINAL
5.0	27-07-2023		Observaciones SIPA - VERSIÓN FINAL
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ANEXOS

ANEXO. INFORME FINAL COMPLEJO HOSPITALARIO SAN JUAN DIOS D

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1 INTRODUCCIÓN

En cumplimiento de la ley 735 de 2002, “Por la cual se declaran monumentos nacionales, el Hospital San Juan de Dios y el Instituto Materno Infantil; se adoptan medidas para la educación universitaria y se dictan otras disposiciones”, establece en su artículo 2 que “El Gobierno Nacional por intermedio del Departamento Nacional de Planeación, el Ministerio de Cultura, el Ministerio de Educación Nacional, acometerá las obras de remodelación, restauración y conservación del bien mencionado y que para el cumplimiento de la ley, fue creada la junta de conservación del monumento nacional integrada por los ministros de Salud, Cultura y Educación Nacional, Alcalde Mayor de Bogotá D.C. y el Gobernador de Cundinamarca o sus delegados.”

Acorde a lo anterior y para continuar con el proceso de recuperación del Complejo Hospitalario San Juan de Dios, se realiza el contrato de consultoría 3020 - 2022 para **REALIZAR LOS ESTUDIOS TÉCNICOS Y PROYECTOS DE RESTAURACIÓN DE LOS CAPILLA, CONVENTO Y JARDÍN INFANTIL LOS CUALES HACEN PARTE DEL COMPLEJO HOSPITALARIOS SAN JUAN DE DIOS DE BOGOTÁ**

Teniendo en cuenta lo anterior, en el presente documento se desarrollarán los siguientes aspectos

- ✓ Diagnóstico de la infraestructura existente de cada una de las edificaciones que conforman los grupos antes mencionados, con base en los respectivos ensayos de laboratorio y patología estructural.
- ✓ Estudio de vulnerabilidad estructural, evaluación y valoración del comportamiento estructural.
- ✓ Descripción de las obras para el reforzamiento estructural de la infraestructura existente.
- ✓ Diseños detallados de las obras para el reforzamiento estructural de la infraestructura existente.

2 OBJETIVOS

2.1 Objetivo General.

El objetivo principal corresponde a realizar los estudios técnicos y proyectos de restauración de varios inmuebles que hacen parte del Complejo Hospitalario San Juan de Dios en la Ciudad de Bogotá

Los proyectos se enmarcan en el contexto relativo a que los inmuebles del Grupo 2, específicamente del edificio de jardín infantil que hacen parte de un Bien de Interés Cultural del ámbito Nacional, por consiguiente, los productos a desarrollar deberán tener como eje transversal el componente patrimonial, implementando los diferentes conceptos normativos y teóricos que se requieren acorde a esta característica

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3 LOCALIZACIÓN GENERAL.

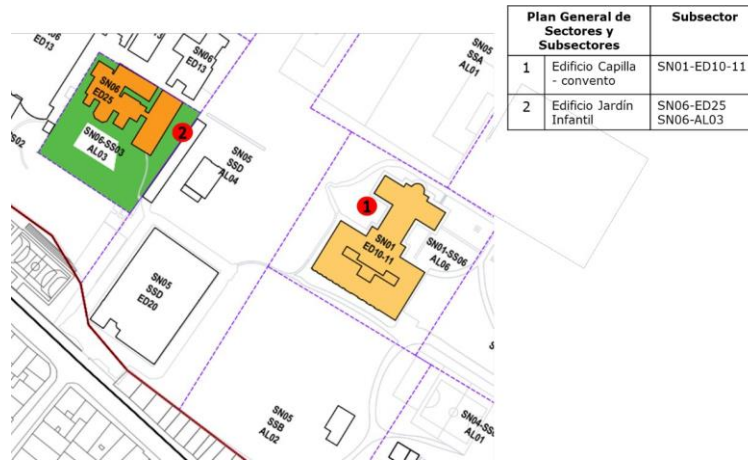


Ilustración 2 localización Grupo 2 - Fuente: PEMP -Junta de conservación del Monumento N° 50.

4 DESCRIPCIÓN GENERAL

4.1 JARDÍN INFANTIL

Para la estructura del jardín infantil, se desconoce la fecha de construcción exacta, esta estructura está constituida a partir de 4 intervenciones distintas, de acuerdo con los análisis y reseñas historias del edificio, El proyecto inicial (1930-1955), cambio de uso ampliaciones (1970-1972), jardín infantil mundo nuevo (1976-1987), Ampliaciones finales (1992 – 2023).

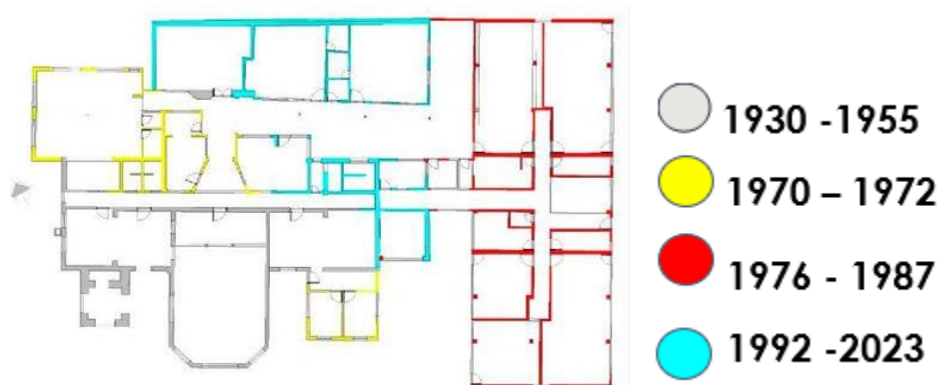


Ilustración 3 Etapas Constructivas Jardín Infantil

Fuente: INVESTIGACIÓN CONSTRUCTIVA, HISTÓRICA Y TIPOLOGICA QUE CONTENGA LA EVOLUCIÓN CONSTRUCTIVA DEL INMUEBLE DEBIDAMENTE GRAFICADA – JARDÍN INFANTIL

En la primera etapa constructiva, el edificio es atravesado transversalmente por una circulación que remata en un espacio ventral ochavado en sus esquinas externas, y que originalmente partió del acceso principal.

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Los volúmenes en esta etapa tienen cubierta a dos y tres aguas con algunas configuraciones en colepató y sus fachadas son de ladrillo, adicionalmente presenta una cornisa de remate contra el alero

La segunda etapa constructiva corresponde con ampliaciones generadas para la conformación por el cambio de uso al jardín infantil, estos elementos tienen un piso de altura y cubierta en teja de barro siendo estas a una sola agua

El volumen de planta regular, que responde a la segunda etapa constructiva, tiene también un piso de altura y cubierta en teja de barro, siendo esta a una sola agua.

El volumen correspondiente a la tercera etapa, corresponde a una estructura en concreto reforzado con columnas y vigas de 0.25x0.25 m, que recibe la cubierta en teja de barro a dos aguas que cuenta con la misma tipología de la estructura fundacional.

La cuarta etapa corresponde a una serie de ampliaciones individuales al jardín infantil, estas resuelven sus fachadas en ladrillo a la vista y plantea una angosta galería sobre el pequeño patio central que finalmente surge de manera residual después de toda la operación constructiva.

En el volumen que hace parte de la primera etapa constructiva, la estructura portante vertical presuntamente está conformada por muros de mampostería en arcilla. En el espacio central de esta área se observan dos columnas de madera de 0.15 x 0.15 m aproximadamente, que soportan una viga en el mismo material y de dimensiones similares, cuya finalidad es contribuir con la cercha de madera en el sostenimiento del sistema de cubierta.

La estructura de cubierta varía de acuerdo con las distintas fases de crecimiento: sobre el cuerpo original, primera fase y sobre la segunda fase, la estructura se compone de cerchas rey en madera y manto de cobertura en teja de barro. En la tercera fase, que incluye el volumen rectangular del costado oriental y la cuarta fase de la zona nor-occidental, se conforma mediante pares o cuchillos sobre elementos de concreto con riostras en madera aserrada en el primer caso, y correas en madera rolliza en el segundo. En los dos espacios, el acabado es en teja de barro. En la última etapa, en la barra de aulas del costado norte, está constituida por vigas metálicas en celosía y acabado en teja de fibro – cemento.

Fecha de Construcción	SXX
Diseñador	Se presume Pablo de la Cruz
Construcción	Desconocido
Usos	<i>Original: posibles usos médicos</i> <i>Ultimo antes del Cierre: jardín infantil</i> <i>Uso actual: Jardín Infantil</i>
Número de Pisos	1
Área construida Primer piso	955,43 m2

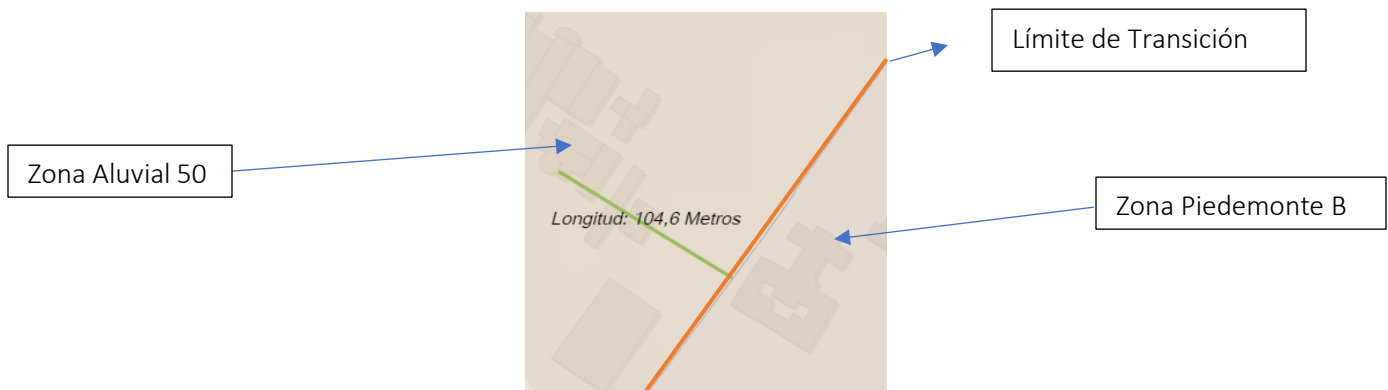
Tabla 1 Información General Jardín Infantil
Fuente: Anexo 7 – anexo técnico específico Grupo

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4.2 CARACTERÍSTICAS DEL USO Y SUELO

De acuerdo con el decreto 523 de 2010 “Microzonificación sísmica de Bogotá” el perfil del suelo encontrado corresponde al tipo Aluvial 50 y Piedemonte B. El cual se encuentra en zona de transición definida en el literal 5.6 “En los límites de cada zona se establece una franja de transición de 100 metros, tomando 50 metros a cada lado de los límites definidos. En esta franja de transición se debe tomar, dependiente del periodo de vibración de la edificación, la aceleración de diseño promedio que resulte de la aplicación de los espectros de diseño de las zonas adyacentes”.

De esta manera, dado que la estructura de jardín infantil se encuentra por fuera del rango de 50 m con respecto a los límites definidos para la microzonificación Sísmica, se adopto un perfil de suelo de aluvial 50.



Las estructuras se clasifican dentro del Grupo de Uso III: Edificaciones de Atención a la Comunidad ($I=1.25$), conforme A.2.5 de NSR-10.

4.3 MATERIALES

Para la evaluación de la estructura se realizaron diversos ensayos de campo con el fin de obtener las resistencias de los materiales que componen la estructura. Los resultados de estos ensayos se pueden consultar en el documento “INFORME FINAL ENSAYOS DE CAMPO COMPLEJO HOSPITALARIO SAN JUAN DE DIOS”. Las resistencias consideradas que se muestran a continuación se obtienen del promedio de estos resultados.

- Elementos de concreto:
 - Ensayo de Extracción de Núcleos

N° Ensayo	Ubicación	Tipo de Toma	Tipo elemento	H/D Núcleo después de refrentado	Resistencia del Núcleo	Observaciones
N-1	JARDIN INFANTIL	-	COLUMNA	1.98	20.8 MPa	
N-2	JARDIN INFANTIL	-	VIGA	2.00	27.8 MPa	
N-3	JARDIN INFANTIL	-	COLUMNA	2.02	2.4 MPa	Resistencia Baja No aplica para referencia

Tabla 2 Resultados del ensayo de extracción de núcleos en el Jardín Infantil

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Teniendo en cuenta los resultados del ensayo de extracción de núcleos en el jardín infantil, se consideran las siguientes resistencias:

Vigas, Columnas y Placas	$F'_c = 24.5 \text{ MPa}$	$E = 23263.81 \text{ MPa}$
Concreto de Limpieza	$F'_c = 14 \text{ MPa}$	$E = 17585.8 \text{ MPa}$

Tabla 3 Resistencia de concretos.

- Acero de Refuerzo con una Resistencia de fluencia de 420 Mpa (4200 Kg/cm²), y un módulo de elasticidad de 200000 Mpa (2000000 Kg/cm²) que cumpla las especificaciones ASTM A706.
- Malla electrosoldada con alambres corrugados que cumplan NTC 2310 (ASTM A497M) con $f_y = 485 \text{ Mpa}$, se permite el uso de alambre liso que cumpla NTC 4002 (ASTM A82M) con $f_y = 485 \text{ Mpa}$.
- Elementos de mampostería:
 - Ensayo de Muretes

N° Ensayo	Ubicación	Tipo de Toma	Tipo elemento	Resistencia del Murete	Observaciones
1	JARDIN INFANTIL	-	MURETE	18.8 MPa	Sin Observaciones
2	JARDIN INFANTIL	-	MURETE	10.7 MPa	

Tabla 4 Resultados del ensayo de muretes en el Jardín Infantil.

- Ensayo de Compresión en Piezas

N° Ensayo	Ubicación	Tipo de Toma	Tipo elemento	Resistencia de la unidad	Observaciones
1	JARDIN INFANTIL	-	PIEZAS	11.7 MPa	Sin Observaciones
2	JARDIN INFANTIL	-	PIEZAS	16.3 MPa	

Tabla 5 Resultados del ensayo de compresión en piezas en el Jardín Infantil.

Teniendo en cuenta los resultados de los ensayos realizados a los elementos de mampostería se consideran las siguientes resistencias:

Resistencia especificada a compresión de la unidad de mampostería maciza	$F'_{cu} = 21.43. \text{ MPa}$	-
Resistencia Nominal a la compresión de la Mampostería maciza	$F'_m = 9.35 \text{ MPa}$	$E = 7012.5 \text{ Mpa}$

Tabla 6 Resistencia de mampostería.

- Para el análisis de cargas muertas se utilizaron los siguientes pesos específicos:

Concreto	2.40 T/m ³
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Mampostería maciza	1.85 T/m ³
Acero de refuerzo	7.80 T/m ³

Tabla 7 Peso de los materiales.

4.4 NORMAS DE DISEÑO

Se han considerado las siguientes normas en el análisis y diseño estructural:

- Reglamento Colombiano de Construcción Sismo Resistente NSR-10. Ley 400 de 1997 (Modificada por la Ley 1229 de 2008 y el Decreto 019 de 2012), Decreto 926 del 19 marzo de 2010, Decreto 092 de 17 enero de 2011 y Decreto 340 del 13 de febrero de 2012.
- Building Code Requirements for Reinforced Concrete, ACI-318.
- ACI 350M-06, Code Requirements for Environmental Engineering Concrete Structures (ACI 350M-06) And Commentary
- ACI 350.3-06, Seismic Design of Liquid-Containing Concrete Structures and Commentary.

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5 INFORMACIÓN PRELIMINAR

5.1 ETAPA 1

“Debe verificarse que la intervención esté cubierta por el alcance dado en A.10.1.3.”

En el numeral A.10.1.3 de NSR-10 se establece que los requisitos del capítulo A.10 pueden ser utilizados en el diagnóstico de la vulnerabilidad sísmica, el diseño, actualizaciones al reglamento y/o la alteración de la estructura de edificaciones existentes antes de la vigencia de la actual norma sismo-resistente del territorio nacional. Por lo anterior, las estructuras que conforman el Complejo Hospitalario San Juan de Dios se encuentran dentro del mencionado alcance, y requieren de la actualización al reglamento.

El propósito de este análisis es establecer que las estructuras estén en capacidad de resistir eventos sísmicos de magnitud baja sin daño en elementos estructurales y no estructurales, eventos sísmicos de magnitud moderada sin daño estructural, pero con algún daño en elementos no estructurales y eventos sísmicos de magnitud alta sin que se presente colapso de la estructura.

5.2 ETAPA 2

“Debe recopilarse y estudiarse la información existente acerca del diseño geotécnico y estructural, así como del proceso de construcción de la edificación original y sus posteriores modificaciones y deben hacerse exploraciones en la edificación, todo esto de acuerdo con A.10.2”

La información recopilada y estudiada acerca del edificio de jardín infantil, en cuanto a su diseño, construcción original y posteriores ampliaciones, debe basarse en los planos estructurales y memorias de diseño estructural originales.

Con base en lo anterior, se han llevado a cabo visitas técnicas de reconocimiento a las instalaciones del Hospital San Juan de Dios, para contar con una inspección visual y generar un análisis cualitativo del estado actual de la estructura. Durante las visitas técnicas efectuadas ha sido posible:

- Recorrer los exteriores e interiores (en zonas permitidas) de la estructura, y a partir de una primera inspección visual, establecer las posibles afectaciones generales en elementos estructurales y no estructurales, tales como: fisuramientos, humedad, filtraciones, pandeo en placas.
- Tomar fotografías para documentación y/o registro fotográfico del estado actual de la estructura. A partir de lo anterior, fue posible obtener fotografías significativas para la determinación de patologías en diferentes elementos estructurales y no estructurales.

El estudio de toda la información recopilada, tanto original como la obtenida a partir de pruebas o ensayos recientes, permite una revisión más eficiente y acertada de las estructuras requeridas bajo un enfoque de vulnerabilidad estructural; y el diagnóstico final permite definir el tipo de intervención más conveniente, aportando las técnicas adecuadas para su preparación y la consiguiente rehabilitación de la unidad constructiva de cada edificación.

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5.2.1 Planos Estructurales

A partir de la información recolectada se generaron esquemas básicos de la distribución de espacios, los cuales fueron utilizados como base para el desarrollo de los elementos de levantamiento estructural.

5.2.2 Memorias de cálculo y estudios de Suelos

A partir de la información recolectada no se encontraron memorias de cálculo o estudios de suelos que permitan identificar la conformación inicial de cada estructura.

5.3 ETAPA 3

“El estado del sistema estructural debe calificarse con respecto a: (a) la calidad del diseño de la estructura original y su sistema de cimentación y de la construcción de la misma y (b) el estado de mantenimiento y conservación. Esta calificación debe hacerse de acuerdo con los requisitos de A.10.2.”

A partir de la información recopilada, relacionada como: planos estructurales de la construcción, registros fotográficos y determinación de patologías mediante inspección visual, se tienen las siguientes calificaciones del estado actual del sistema estructural de las edificaciones objeto del presente estudio:

- Calidad Del Diseño Y La Construcción De La Estructura Original
 - BUENA
- Estado De La Estructura
 - BUENA

6 EVALUACIÓN DE LA ESTRUCTURAS EXISTENTES

La evaluación de las estructuras existentes se realiza a partir de la información mencionada en las etapas previas, y posteriormente analizando los diferentes modelos analíticos planteados para las estructuras, se generan los resultados requeridos para las etapas 4 a 10. A continuación se describe el procedimiento general.

6.1 ETAPA 4

“Deben determinarse unas solicitudes equivalentes de acuerdo con los requisitos de A.10.4.2.”

En esta etapa de estudio se busca determinar las diferentes solicitudes de los elementos estructurales que conforman las edificaciones, de acuerdo con las indicaciones dadas en el Título B de NSR-10, y compararlas con las que es capaz de resistir la sección del elemento en el estado actual

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en que se encuentra. Para esto se debe realizar el análisis estructural pertinente, con base en la configuración geométrica y estructural actual (de acuerdo con los planos obtenidos), en las propiedades de los materiales encontrados y en las cargas estimadas.

La evaluación de cargas de las estructuras se realiza teniendo en cuenta las cargas adicionales permanentes, cargas vivas por uso y ocupación, fuerzas sísmicas que impone el sismo de diseño sobre la edificación, presiones estáticas y dinámicas, verticales y/u horizontales.

Los movimientos sísmicos de diseño se obtienen por medio de los parámetros sísmicos definidos en el Título A de NSR-10, y estos dependen del nivel de amenaza sísmica del lugar donde se encuentran construidas las edificaciones, de las características del suelo entregados por geotecnia y del coeficiente de importancia de la edificación, de acuerdo con su categoría o grupo de uso.

Las estructuras que conforman El Complejo Hospitalario San Juan de Dios se encuentran ubicados en la ciudad Bogotá D.C, Departamento de Cundinamarca, correspondiente a una zona de amenaza sísmica *Intermedia*, de acuerdo con lo establecido en el numeral A.2.1 de NSR-10.

De acuerdo con lo establecido en A.2.5.1 de NSR-10, las estructuras se clasifican como Estructuras de atención a la Comunidad , Grupo de Uso III, con un coeficiente de importancia $I=1.25$.

A partir de los parámetros obtenidos en la definición del movimiento sísmico de diseño, y siguiendo los lineamientos de A.2.6. de NSR-10, se obtiene el espectro elástico de diseño, con el que se determinan las fuerzas sísmicas a ser aplicadas a las estructuras.

Finalmente, se define el método por el cual se obtendrán las fuerzas sísmicas de diseño, que es criterio del ingeniero diseñador, y se selecciona el método de análisis dinámico, estipulado en el capítulo A.5 de NSR-10.

Las cargas de diseño se determinan siguiendo los requisitos de los Títulos A y B de NSR-10, y se definen a continuación:

- *Carga Muerta.* Se debe al peso propio de los elementos estructurales y no-estructurales permanentes durante la vida útil de la estructura (placas, columnas, vigas, acabados, equipos, etc.).
- *Carga Viva.* Cargas no permanentes, móviles o transitorias, debidas al uso y ocupación de la edificación (personal ejecutando labores de construcción o mantenimiento, inmuebles, equipos móviles, etc.).
- *Empuje de Tierra.* El empuje de tierra se asigna a los muros de la estructura que se encuentran enterrados, a partir de las propiedades del material de relleno definidas en el estudio de suelos y el coeficiente de empuje en reposo.
- *Presión Hidrostática.* La presión hidrostática por líquidos se aplica sobre la estructura hidráulica en las placas que tendrán un nivel de agua constante, y en los muros que se encuentre en contacto directo con el nivel de agua N.A.M.A. de la estructura.
- *Sismo de la Estructura.* Se consideran las fuerzas inducidas por el espectro de diseño, reducidas por el coeficiente de capacidad de disipación de energía R , de acuerdo con el sistema estructural

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de resistencia sísmica definido. No se consideran efectos sísmicos para la estructura hidráulica que se encuentra enterrada.

- *Sismo del Relleno.* Se asigna a los muros de la estructura que se encuentran enterrados, a partir de las propiedades del material de relleno definidas en el estudio de suelos y el coeficiente de empuje en sismo (diferencia de los coeficientes de empuje activo dinámico y activo).
- *Presión Hidrodinámica.* La presión hidrodinámica hace referencia al efecto que tiene un evento sísmico en el líquido almacenado. Es importante anotar que adicional a las fuerzas hidrodinámicas, se incluyen en el análisis, las fuerzas inerciales correspondientes a la aceleración de la estructura como tal.

Para determinar las fuerzas y los esfuerzos internos de los elementos que componen cada una de las estructuras: placas, muros, columnas y vigas, se realizó un análisis estructural, siguiendo lo estipulado en el capítulo C.9 de NSR-10, para elementos de concreto reforzado, Capítulo D.4 y D.5 para mampostería y el título F para los elementos metálicos.

Los diferentes casos de carga que se deben tener en cuenta se combinan para obtener las fuerzas internas o solicitaciones equivalentes que se emplean en la evaluación de la estructura existente, de acuerdo con las combinaciones indicadas Título B del Reglamento Colombiano de Construcción Sismo Resistente NSR-10.

6.2 ETAPA 5

“Debe llevarse a cabo un análisis elástico de la estructura y de su sistema de cimentación para las solicitaciones equivalentes definidas en la Etapa 4.”

Utilizando herramientas sistemáticas que actualmente existen, se realizan modelos por computador, mediante el software de análisis estructural ETABS 2015, el cual permite obtener las solicitaciones internas a las que se encuentran sometidos todos y cada uno de los elementos que conforman los sistemas de resistencia de las estructuras, bajo las condiciones de análisis y combinaciones de cargas consideradas.

Para la realización de un modelo que se ajuste al comportamiento real de la estructura, se debe tener claramente identificada la estructura, su comportamiento, su geometría, y se debe tener especial cuidado en la definición de los parámetros estructurales que determinan la respuesta ante las diferentes solicitaciones. A continuación, se presentan algunas de las consideraciones definidas para realizar los análisis estructurales.

6.2.1.1 Materiales

En el software ETABS 2015 se definen las propiedades de los materiales de acuerdo con los resultados obtenidos en los ensayos de campo y de laboratorio efectuados sobre las estructuras, o a partir de la información consignada en los planos originales.

6.2.1.2 Tipos de elementos

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Al momento de elaborar los modelos tridimensionales por computadora, empleando elementos finitos mediante el software ETABS 2015, para los análisis estructurales los muros y placas de la estructura se definen como elementos tipo *Shell*, y las columnas y vigas mediante elementos tipo *frame*, con las secciones y propiedades requeridas de acuerdo con su geometría y material.

6.2.1.3 Condiciones de apoyo

En los modelos realizados de las edificaciones, se suponen apoyos de empotramiento en la base de las columnas y muros pantalla, puesto que los muros de las estructuras enterradas garantizan este tipo de interacción con la estructura superior.

6.2.1.4 Aplicación de cargas

Una vez definidos los materiales, las geometrías de los diferentes elementos estructurales, y estructurado el modelo, se deben asignar las cargas para el análisis, teniendo en cuenta la información obtenida en la Etapa 4, respecto a las cargas bajo las cuales se encuentran sometidas las edificaciones.

Es importante señalar que, en el desarrollo de los diseños estructurales actuales, una premisa básica es la continuidad de los elementos estructurales, lo que implica la construcción de diafragmas rígidos entre los elementos, tales como vigas, columnas o muros, que sean capaces de transmitir las solicitaciones de un elemento a otro.

Una vez definido el modelo por computador de la estructura, en cuanto a lo referido en el punto anterior, se procede al análisis de este y a la verificación del cumplimiento de determinados parámetros contemplados en el reglamento NSR-10, para obtener las diferentes solicitaciones que tiene cada uno de los elementos estructurales.

6.3 ETAPA 6

“La resistencia existente de la estructura debe determinarse utilizando los requisitos de A.10.4.3.3.”

Para el análisis de resistencia existente de los elementos que conforman cada una de las estructuras del Grupo 2, se estudiará el comportamiento de la edificación ante las cargas con que se diseñan, suponiendo parámetros elásticos de los materiales.

En el diseño de muros, placas, vigas y columnas que conforman las estructuras, se obtienen valores de los esfuerzos internos más desfavorables para momento y cortante, de acuerdo con el tipo de sección a analizar, diferenciado por el espesor particular del mismo, con dicha información y con base en las características de los materiales se establecen las resistencias nominales de los elementos con el fin de calcular los índices de sobre esfuerzo de cada uno de los elementos.

Para el análisis de resistencia existente de los elementos de concreto reforzado que conforman los sistemas de resistencia de las estructuras, se utilizó el Método de Esfuerzos de Trabajo - Estado Límite

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de Servicio. A partir de este método, aplicado a los modelos por computador, se estudiará el comportamiento de la estructura ante las cargas con que se diseñan, suponiendo parámetros elásticos de los materiales.

En el caso de columnas y vigas se generan datos de salida con las solicitudes internas de cada elemento, para las combinaciones y envolventes de diseño requeridas particularmente; y a partir del uso del software DC-CAD-2010 se realiza la revisión al diseño estructural, asignado a las secciones los aceros de refuerzo indicados en los planos originales.

En el mismo software, se generan cuadros resumen que presentan los valores máximos de las solicitudes con que se han diseñado finalmente tanto las vigas como las columnas, así como listados con los índices de sobreesfuerzo para flexo-compresión, momento negativo, momento positivo y/o cortante.

6.4 ETAPA 7

“Se debe obtener una resistencia efectiva de la estructura, a partir de la resistencia existente, afectándola por dos coeficientes de reducción de resistencia obtenidos de los resultados de la calificación llevada a cabo en la Etapa 3.”

Con base en la información recopilada (planos estructurales originales, registros fotográficos, determinación de patologías mediante inspección visual, pruebas no destructivas, pruebas destructivas y resultados de ensayos en laboratorios de concreto), y conforme lo indicado en la tabla A.10.4-1 de NSR-10, se determina el estado de la estructura tanto por su calidad del diseño y la construcción de la estructura original como por estado actual de la edificación.

6.5 ETAPA 8

“Debe determinarse un índice de sobreesfuerzo como el máximo cociente obtenido para cualquier elemento o sección de éste, entre las fuerzas internas solicitadas obtenidas del análisis estructural realizado en la Etapa 5 para las solicitudes equivalentes definidas en la Etapa 4 y la resistencia efectiva obtenida en la Etapa 7.”

Una vez efectuados los análisis estructurales sobre los modelos por computador de cada estructura, se determinan las solicitudes internas de los elementos que la conforman, y, calculadas las resistencias efectivas de cada una de las secciones, se puede establecer una relación entre los esfuerzos actuantes y los esfuerzos resistentes. Esta correlación se denomina índice de sobreesfuerzo, y busca establecer la proporción entre la demanda y la capacidad del elemento analizado, a partir de la resistencia efectiva y las solicitudes previstas.

$$\text{Índice de sobreesfuerzos} = \text{Cargas actuantes} / \text{Cargas resistentes}$$

A partir de los valores obtenidos de los índices de sobreesfuerzo para cada uno de los elementos analizados, se determina el grado de vulnerabilidad global de la estructura, como el inverso del mayor

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índice de sobreesfuerzo encontrado. Este valor determina el grado de capacidad de respuesta de la estructura ante las solicitaciones previstas en el análisis estructural.

Para realizar una revisión eficiente de la estructura es necesario que en la etapa de Información Preliminar se cuente con la información necesaria para el análisis.

6.6 ETAPA 9

“Utilizando los desplazamientos horizontales obtenidos en el análisis de la Etapa 5 deben obtenerse las derivas de la estructura.”

Las derivas (Δ) se calculan a partir de los desplazamientos horizontales relativos, entre niveles continuos de cada edificación, obtenidos en la etapa de análisis estructural, utilizando la metodología indicada en A.6 de NSR-10.

La deriva máxima para cualquier piso no puede exceder los límites establecidos en la tabla A.6.4-1 de NSR-10, en la cual la deriva máxima se expresa como un porcentaje de la altura de piso.

Los resultados obtenidos en el análisis computacional para cada estructura, aplicando las combinaciones que incluyen los efectos sísmicos en las dos direcciones, arrojan los valores de deriva máxima.

6.7 ETAPA 10

“Debe determinarse un índice de flexibilidad por efectos horizontales como el máximo cociente entre las derivas obtenidas en la Etapa 9 y las derivas permitidas por el Reglamento en el Capítulo A.6. Igualmente debe determinarse un índice de flexibilidad por efectos verticales como el máximo cociente entre las deflexiones verticales medidas en la edificación y las deflexiones permitidas por el presente Reglamento.”

Un análisis paralelo a la determinación de los índices de sobreesfuerzo es el cálculo del índice de flexibilidad, que busca determinar el grado de deformación de la estructura. Se calcula con base en la relación existente entre los desplazamientos y las deformaciones de la estructura, ante la aplicación de las solicitaciones de carga previstas, y los requisitos de deriva y deflexiones establecidos en NSR -10.

6.7.1 Índices de Vulnerabilidad

Se define como el inverso del índice de sobreesfuerzo, y expresa la vulnerabilidad sísmica de la edificación, y se define como una fracción de la resistencia que tendrían los elementos si fueran constituidos de acuerdo con los requisitos de la actual reglamentación sismo resistente.

A continuación, se presenta los análisis respectivos para el edificio de Jardín infantil en cada una de las etapas antes mencionad

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7 ANÁLISIS DE VULNERABILIDAD CONCRETO

7.1 Análisis Sísmico

DEFINICION DE MOVIMIENTO SISMICO DEL DISEÑO																						
a.- Ubicación del proyecto:	Carrera 10 # 1-59 Sur, Antonio Nariño																					
b.- Zona de amenaza sísmica:	Intermedia																					
c.- Valor de A_a	$A_a = 0.15$																					
d.- Valor de A_v	$A_v = 0.20$																					
e.- Zona de Respuesta Sísmica (Microzonificación):	Aluvial 50																					
f.- Tipo de perfil de suelo:	<table border="1"> <thead> <tr> <th></th> <th>Fa</th> <th>Fv</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> </tr> <tr> <td>X D</td> <td>1.35</td> <td>1.80</td> </tr> <tr> <td>E</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td></td> <td></td> </tr> </tbody> </table>		Fa	Fv	A			B			C			X D	1.35	1.80	E			F		
	Fa	Fv																				
A																						
B																						
C																						
X D	1.35	1.80																				
E																						
F																						
g.- Grupo de uso	III																					
h.- Coeficiente de importancia:	I 1.25																					
i.- Coeficiente de amortig. crítico	C.C.A: 5%																					
j.- Espectro de diseño:	Elástico																					
Observaciones: Según numeral A.6.2.1.2, el coeficiente de importancia a utilizar para el cálculo del desplazamiento horizontal I= 1 y para el diseño III= 1.25																						
Revisó: _____ Ejecutó: _____																						

CARACTERISTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA

- | | | |
|-----|--|--|
| a.- | Sistema estructural: | PORTICO RESISTENTES A MOMENTOS CON CAPACIDAD MODERADA DE DISIPACION DE ENERGIA |
| b.- | Material | CONCRETO |
| c.- | Capacidad de disipación de energía | Moderada (DMO) |
| d.- | Coeficiente de capacidad básica de modificación de respuesta | $R_o = 5.0$ |
| | Coeficiente de Sobre resistencia | $\Omega_0 = 3.0$ |
| e- | Número de edificaciones | 1 |
| f- | Número de pisos | 1 PISO |

Observaciones:

Revisó: _____
Ejecutó: _____

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IRREGULARIDAD DE LA EDIFICACION			
a.- EDIFICACIÓN: 1 PISO			
b.- CONFIGURACION EN PLANTA			
TIPO	DESCRIPCION		Φp
1aP	Irregularidad torsional		1.0
1bP	Irregularidad torsional extrema		1.0
2P	Retrocesos en esquinas		1.0
3P	Discontinuidades en el diafragma		1.0
4P	Desplaz. de elementos verticales		1.0
5P	Sistemas no paralelos		1.0
Φp=	1.0		
c.- CONFIGURACION EN ALTURA			
TIPO	DESCRIPCION		Φa
1aA	Piso flexible (irregularidad en rigidez)		1.0
1bA	Piso flexible (irregularidad extrema en rigidez)		1.0
2A	Distribución masa		1.0
3A	Irregularidad geométrica		1.0
4A	Desplaz. dentro del plano de acción		1.0
5aA	Piso débil- discontinuidad en la resistencia		1.0
5bA	Piso débil- discontinuidad extrema resistencia		1.0
Φa=	1.0		
d.- AUSENCIA DE REDUNDANCIA		ΦRX	1.00
		ΦRY	1.00
e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA			
Ro=		5.0	
f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA			
R= (Φa) x (Φp) x (Φr) x Ro			
RX=		5.00	
RY=		5.00	
g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS			
Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y			
h.- MEZCLA DE SISTEMAS ESTRUCTURALES			
No existe, ni en planta ni en altura.			
Observaciones:			Revisó: _____ Ejecutó: _____

CARACTERISTICAS DEL DISEÑO**a.- METODO DE ANALISIS SISMICO UTILIZADO**

Análisis dinámico elástico espectral

b.- METODO DE ANALISIS ESTRUCTURAL

Análisis matricial: Estructura principal

c.- METODO DE DISEÑO

Resistencia ultima

Observaciones:

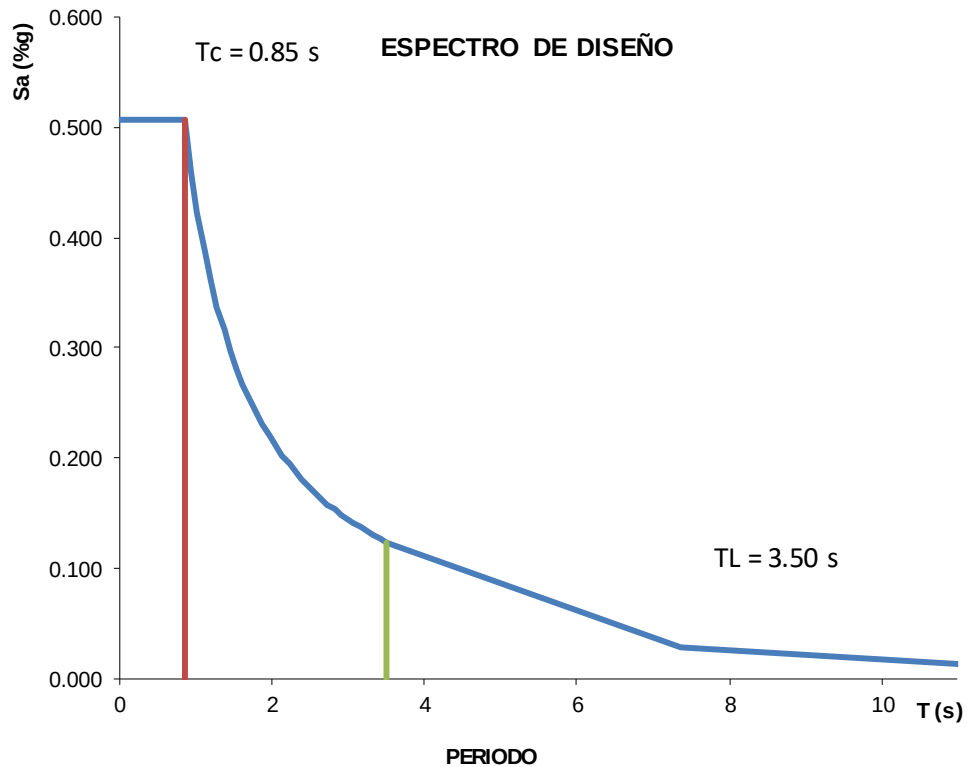
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ESPECTRO SISMICO			
MODELO NSR-10			
a. - PERIODO DE LA ESTRUCTURA			
Ta=	Ct x h ^α	PORTICO RESISTENTES A MOMENTOS CON	
Ct=	0.047	CAPACIDAD MODERADA DE DISIPACION DE	
α=	0.90	ENERGIA	
hn=	4.105 m		
Ta=	0.17	cu= 1.32	Tdinmax 0.22 Tdin: 0.23
b. - PARÁMETROS			
Aa= 0.15	Av= 0.20		
Fa= 1.35	Fv= 1.80		
I = 1.00			
Idis= 1.25			
c. - LIMITES DEL PERIODO			
To=	(0.1*Av*Fv)/(Aa*Fa)	=	0.18
Tc=	(0.48*Av*Fv)/(Aa*Fa)	=	0.85
TL=	TL (Tabla 3., Decreto 523 de 2011)	=	3.50
d. - ESPECTRO PARA PERIODOS MENORES A Tc.			
Sa 1 = 2.5 * Aa * Fa*I=		Sa1= 0.51	
e. - ESPECTRO DE ACELERACIONES EN FUNCION DE T			
Sa 2= $\frac{1.2 * Av * Fv * I}{T}$		Sa 2= 0.43 / T = 1.96	
f. - ESPECTRO PARA PERIODOS MAYORES A T_l.			
Sa 3= $\frac{1.2 * Av * Fv * T_l * I}{T^2}$		Sa 3= 1.51 / T ² = 31.01	
g. - ESPECTRO SISMICO DE DISEÑO			
Sa = 0.51		51% (g)	
Para el diseño el espectro sísmico según NSR-10, entonces Sa=0.51 = 50.625%(g)			
Observaciones:		Revisó: _____ Ejecutó: _____	

ESPECTRO SISMICO DE DISEÑO

CURVAS DE ESPECTROS DE ACUERDO A LA NSR-10

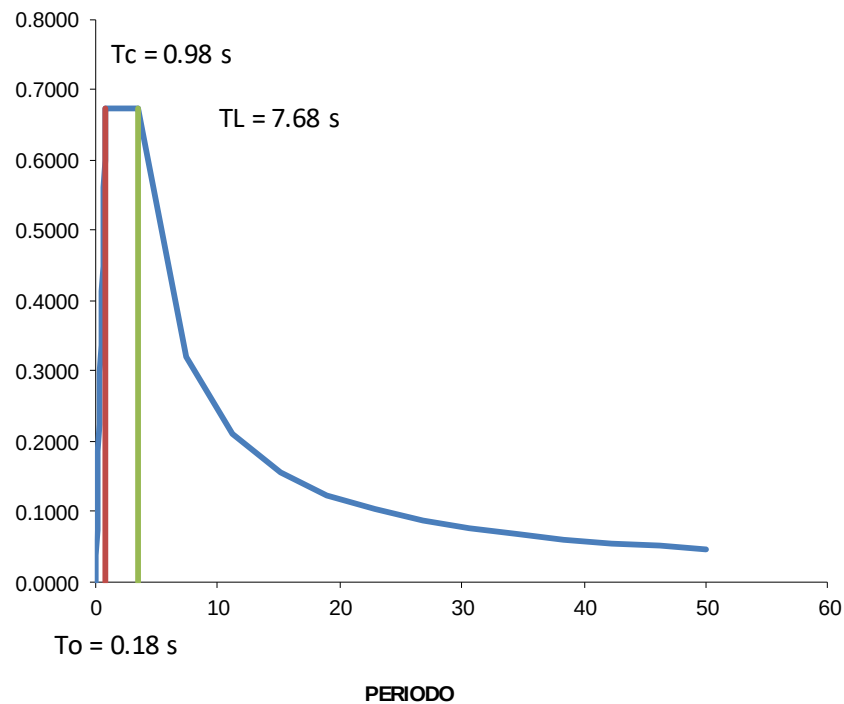


Observaciones:

Revisó: _____
Ejecutó: _____

ESPECTRO ELASTICO DE VELOCIDADES (m/s) DE DISEÑO

i.



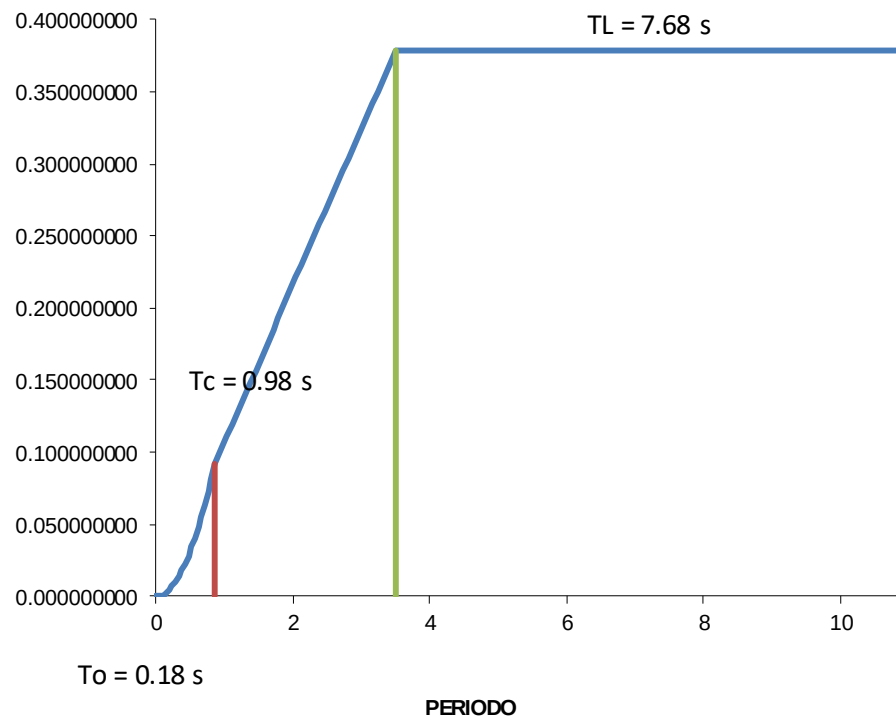
Observaciones:

Revisó: _____
Ejecutó: _____

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ESPECTRO ELASTICO DE DESPLAZAMIENTOS (m) DE DISEÑO

j.



Observaciones:

Revisó: _____
Ejecutó: _____

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7.2 Peso de la estructura

PESO DE LA EDIFICACION						
VOLUMES DE VIGAS Y COLUMNAS						
PISO 1 N +0.00 Area placa = 268.74 m²						
<i>Columnas y pantallas</i>						
ITEM	b (m)	h (m)	H (m)	Cant	V (m3)	Peso (t)
C25X25	0.25	0.25	2.64	27	4.45	10.68
Total				27	4.45	10.68
PISO 2 N +2.64 Area placa = 268.74 m²						
<i>Columnas y pantallas</i>						
ITEM	b (m)	h (m)	H (m)	Cant	V (m3)	Peso (t)
C25X25	0.25	0.25	1.47	9	0.83	1.98
Total				9	0.83	1.98
<i>Vigas de Entrepiso</i>						
ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)	
V25X25	0.25	0.25	75.30	4.71	11.29	
Total				4.71	11.29	
CUBIERTA N +4.1053 Area placa = 268.74 m²						
<i>Vigas Entrepiso</i>						
ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)	
V25X25	0.25	0.25	27.89	1.74	4.18	
Total				1.74	4.18	

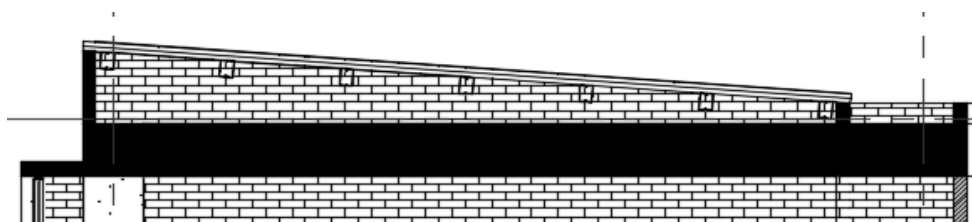
CALCULO DE DENSIDADES	PISO 1	N +0.00
Area de placa	268.74	m ²
CARGAS ADICIONALES	0.000	t/m ²
MUROS CONTENCIÓN	0.000	t/m ²
DENSIDAD DE VIGAS	0.000	t/m ²
DENSIDAD DE COLUMNAS	0.020	t/m ²
DENSIDAD DE VIGUETAS	0.000	t/m ²

CALCULO DE DENSIDADES			PISO 2		N +2.64	
Area de placa			268.74		m ²	
NO ESTRUCTURALES						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
MURO EJE 9	0.15	4.39		1600	0.73	0.77
MURO EJE 9	0.15	5.37		1600	0.74	0.95
MURO EJE 1	0.15	4.39		1600	0.74	0.77
MURO EJE 1	0.15	5.37		1600	0.74	0.95
						3.44

AVALUO DE CARGAS

PISO 2

N +2.64



	t/m ²
Teja de arcilla incluyendo el	0.080
Cielo Raso entramado metálico suspendido afinado en yeso	0.050
Tela asfáltica de una capa	0.033
Sistema de suspensión de madera	0.003
	<hr/> 0.17

NO ESTRUCTURALES	0.013	t/m ²
CARGA MUERTA	0.18	t/m ²
CARGA VIVA O GRANIZO CUBIERTA <15°	0.050	t/m ²
CARGA VIVA O GRANIZO CUBIERTA >15°	0.035	t/m ²

DENSIDADES

VIGAS	0.042	t/m ²
COLUMNAS	0.024	t/m ²
VIGUETAS	0.000	t/m ²
CARGA REAL	0.29	t/m ²
CARGA ULTIMA PARA VIGUETAS	0.28	t/m ²
CARGA PARA ANALISIS SISMICO	0.24	t/m ²

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CALCULO DE DENSIDADES			CUBIERTA		N +4.11	
Area de placa			268.74		m ²	
NO ESTRUCTURALES						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
						0.00
NO ESTRUCTURALES						
			0.000	t/m ²		
MUROS CONTENCION			0.000	t/m2		
DENSIDAD DE VIGAS			0.016	t/m ²		
DENSIDAD DE COLUMNAS			0.004	t/m ²		
DENSIDAD DE VIGUETAS			0.000	t/m ²		

7.3 Centros de Masa y Torsión

TORSION

CENTROS DE MASA Y TORSION ACCIDENTAL

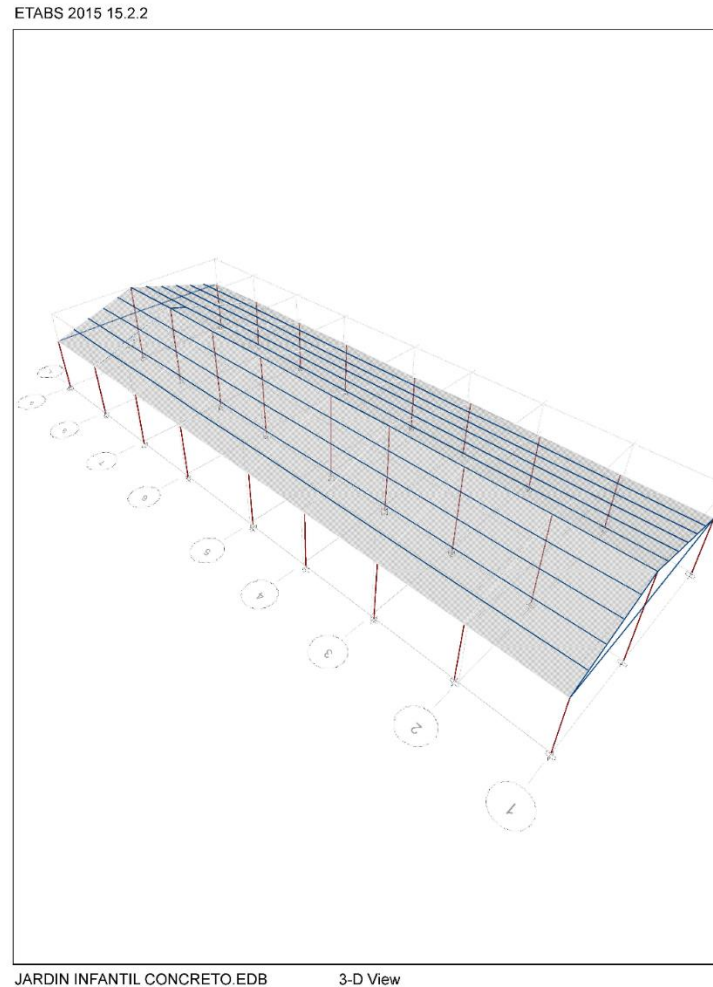
CENTROS DE MASA

CENTRO DE MASA:
N +2.64
X = 4.79
Y= 13.91

EXCENTRICIDAD ACCIDENTAL

Dimensiones	Excentricidad	Excentricidad
N +2.64		
X= 5.05m	ex = 0.25m	e= 0.29m
Y= 5.75m	ey = 0.29m	

7.4 Estructuración



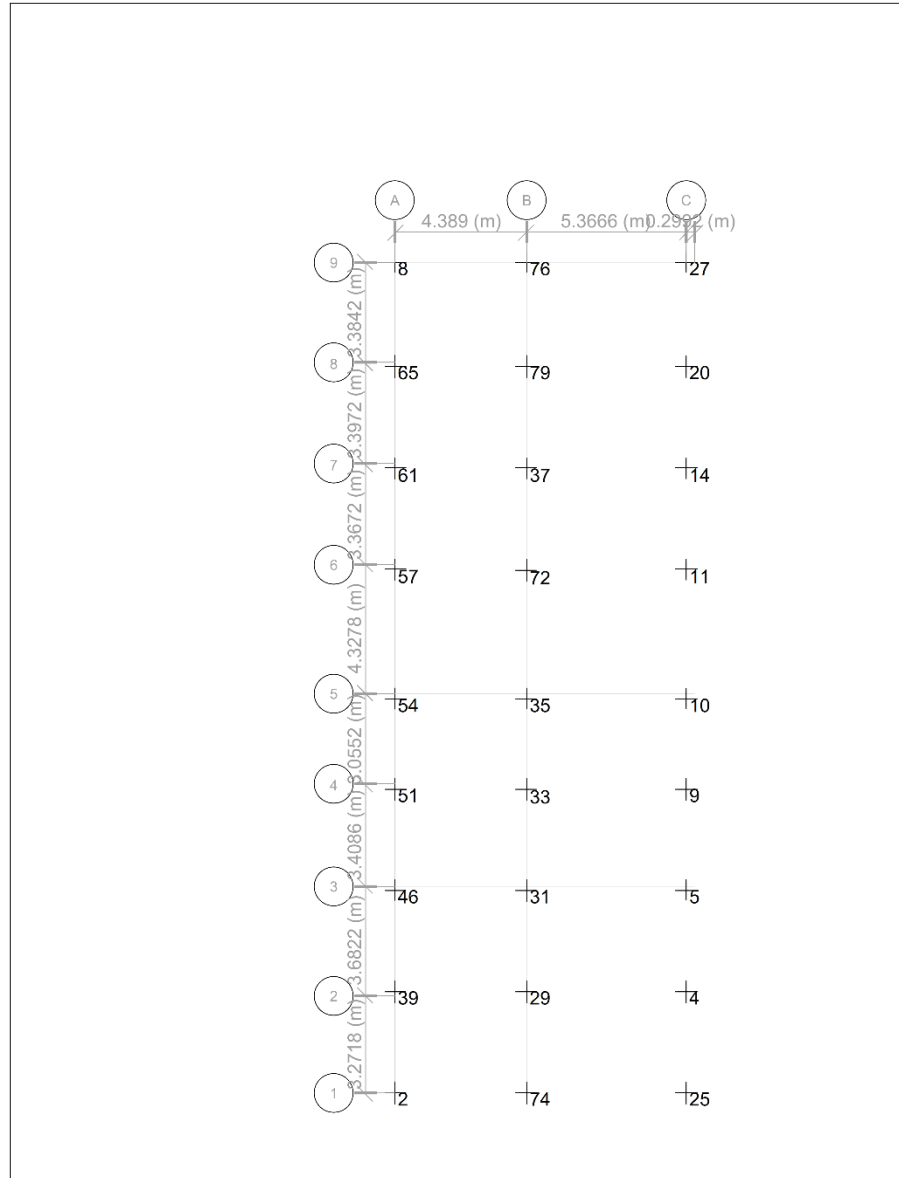
El modelo de la estructura fue hecho con el software ETABS 2015 En este programa se hizo una combinación de herramientas utilizando elementos tipo Frame para la simulación de las vigas, columnas, y elementos tipo Shell para las placas y muros.

Los apoyos de las columnas y muros son apoyos empotrados.

El sistema de cargas de la estructura es estático para cargas muertas y vivas, y dinámico para las fuerzas horizontales.

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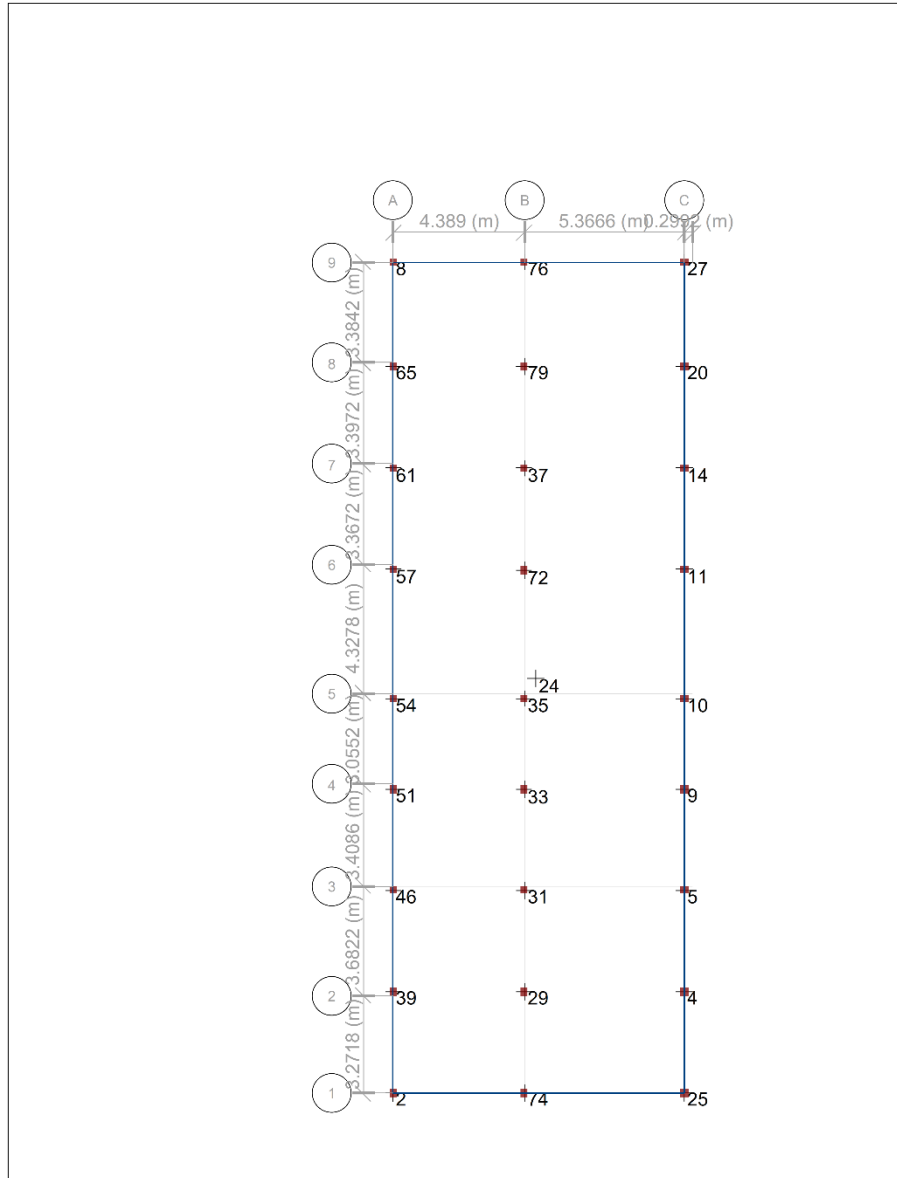
ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETO.EDB Plan View - Base - Z = 0 (m)

Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 37
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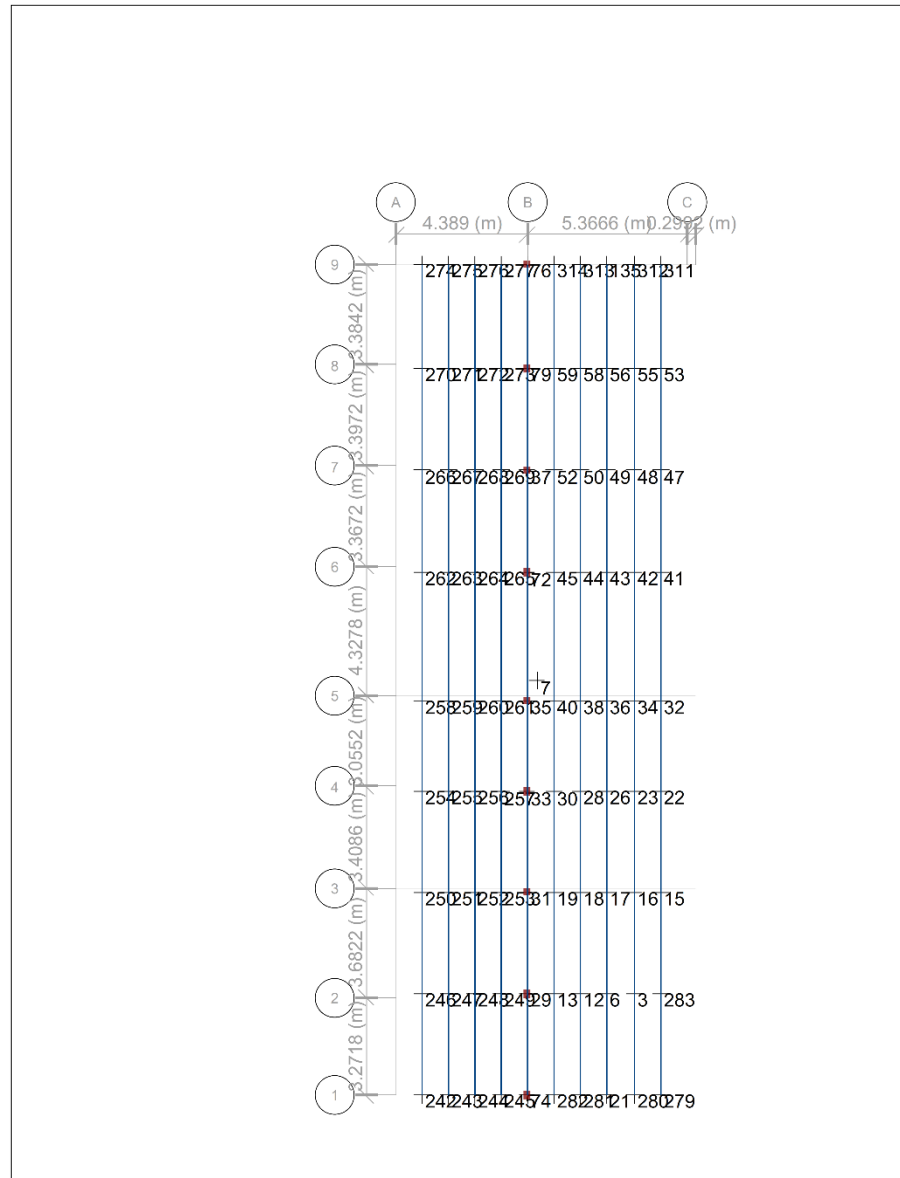
ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETO. 3D View - NE+2.6365 - Z = 2.6365 (m)

Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 38
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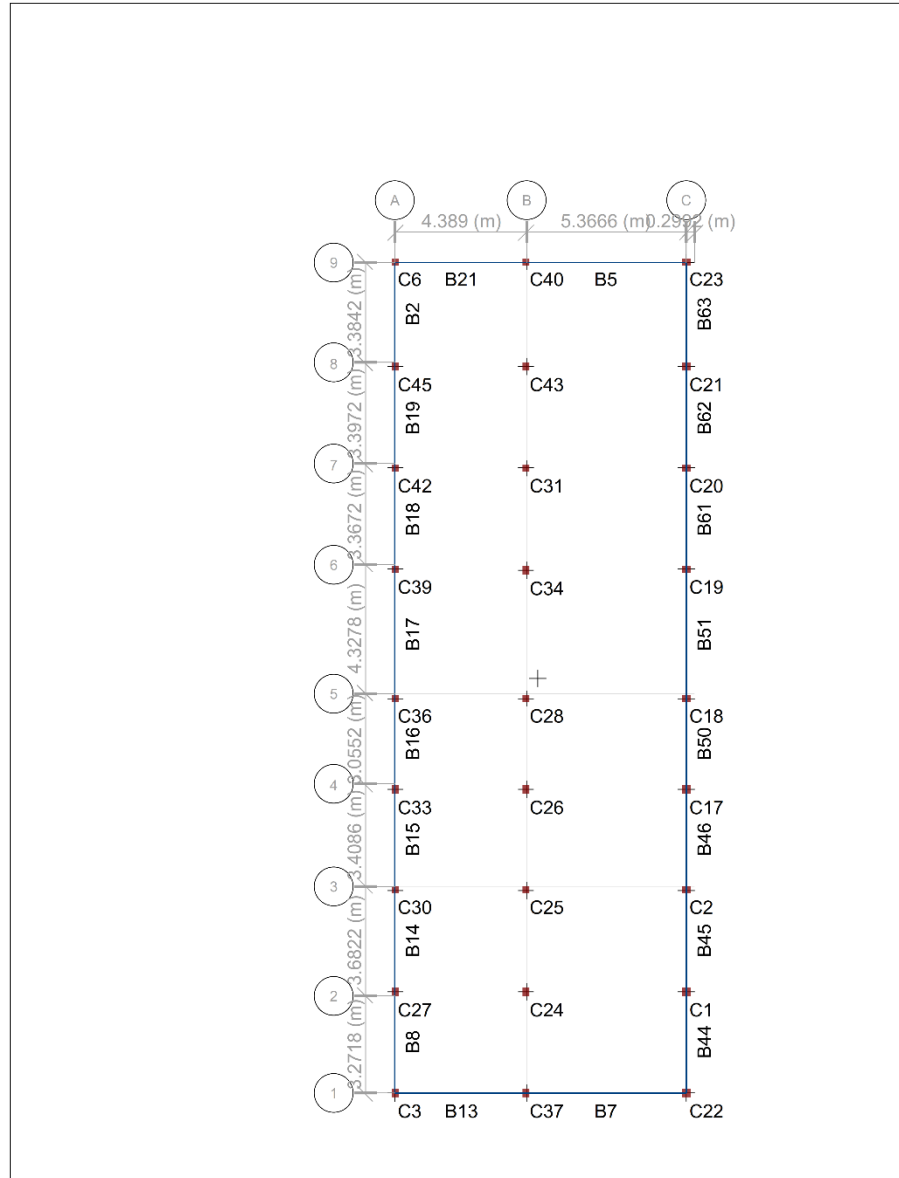
ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETO.PDB View - NE+4.1053 - Z = 4.1053 (m)

Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 39
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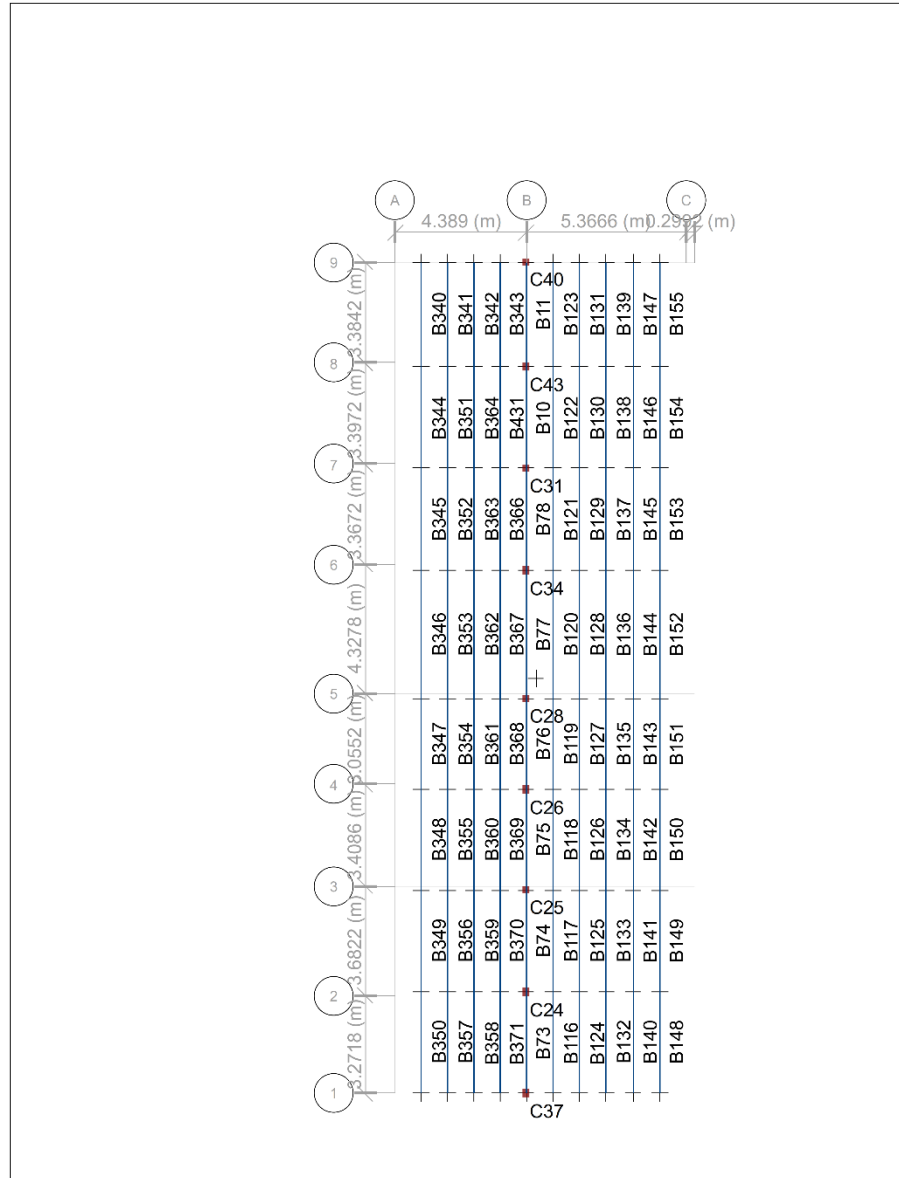
ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETO FIB View - NE+2.6365 - Z = 2.6365 (m)

Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 40
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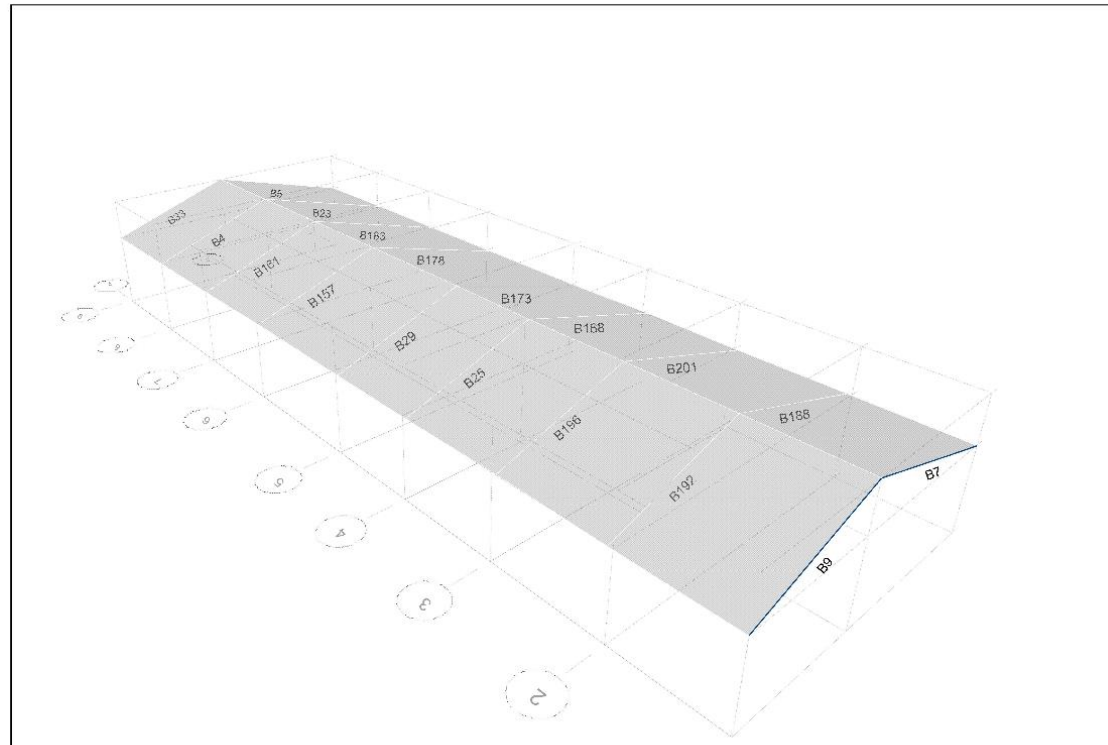
ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETO View - NE+4.1053 - Z = 4.1053 (m)

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ETABS 2015 15.2.2

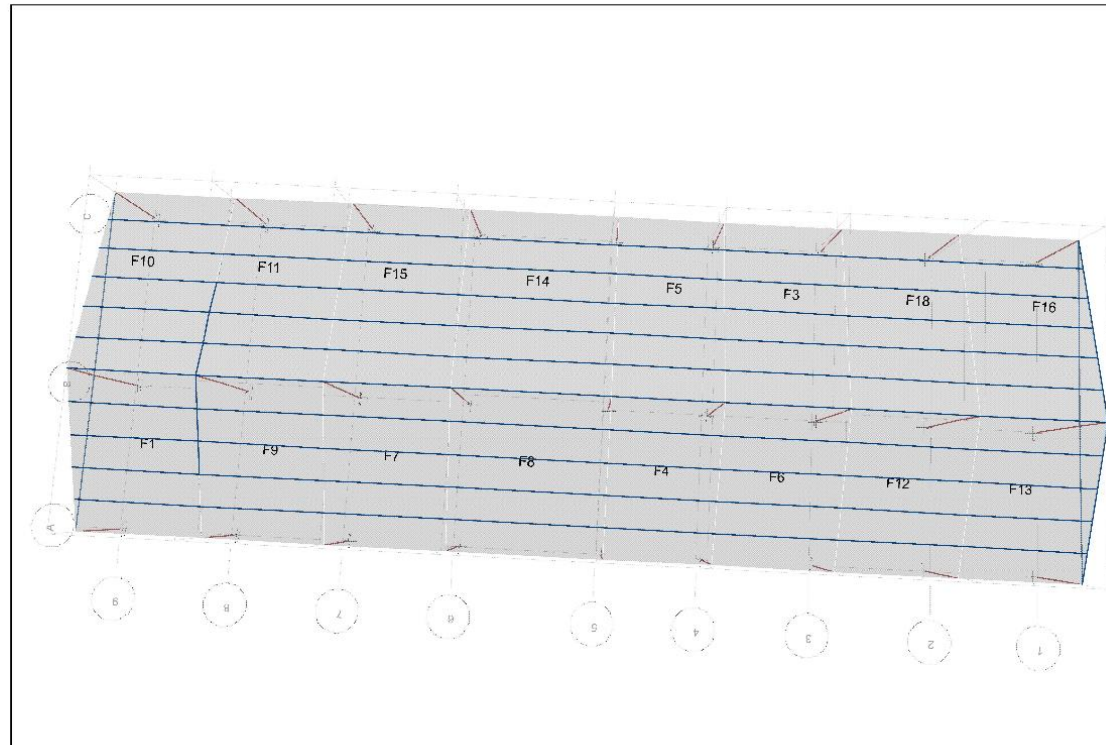


JARDIN INFANTIL CONCRETO.EDB

3-D View

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ETABS 2015 15.2.2

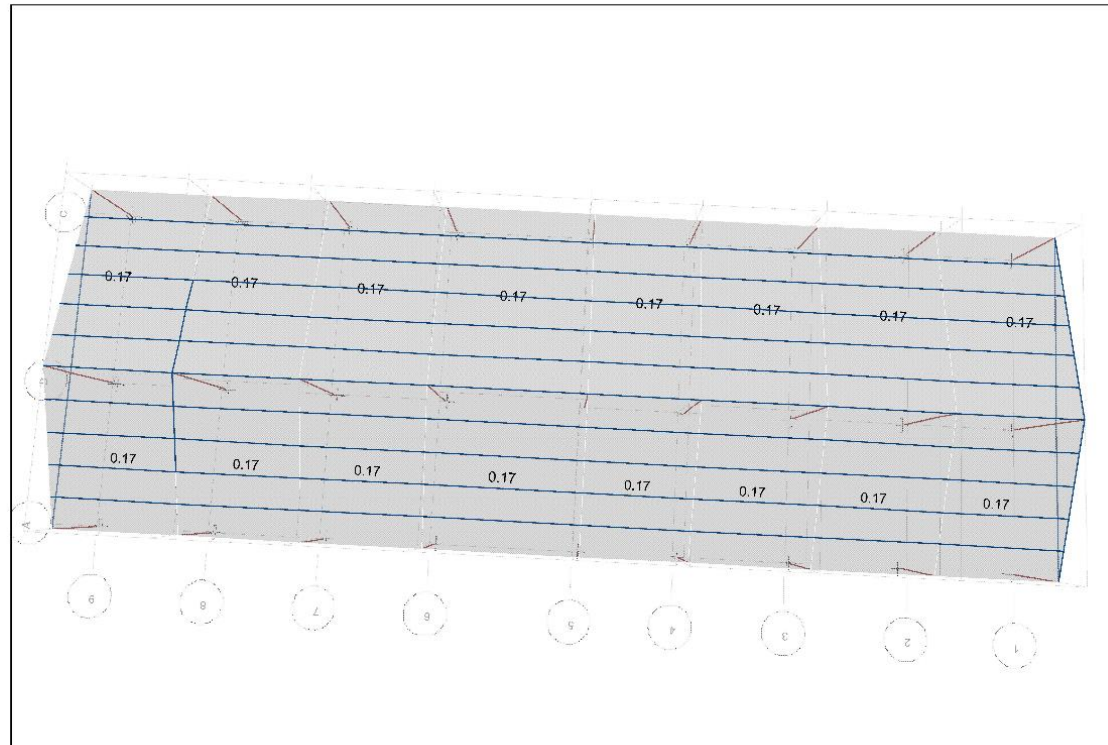


JARDIN INFANTIL CONCRETO.EDB

3-D View

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ETABS 2015 15.2.2

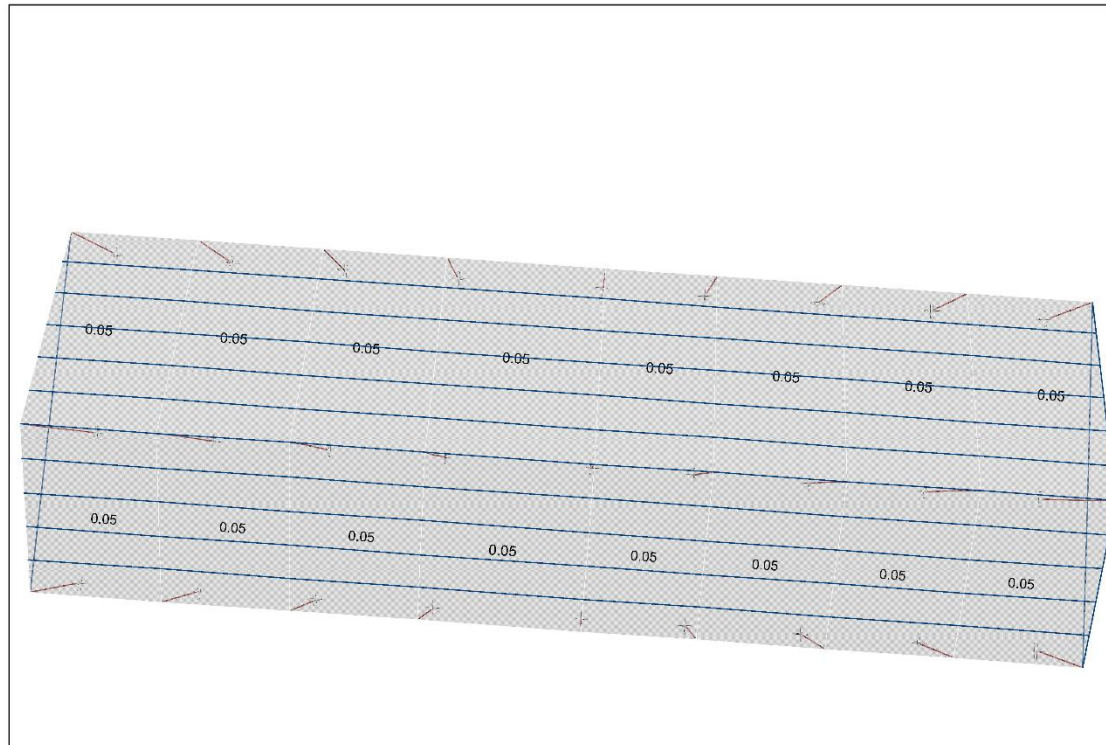


JARDIN INFANTIL CONCRETO.EDB

3-D View Uniform Loads Gravity (CA)

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ETABS 2015 15.2.2

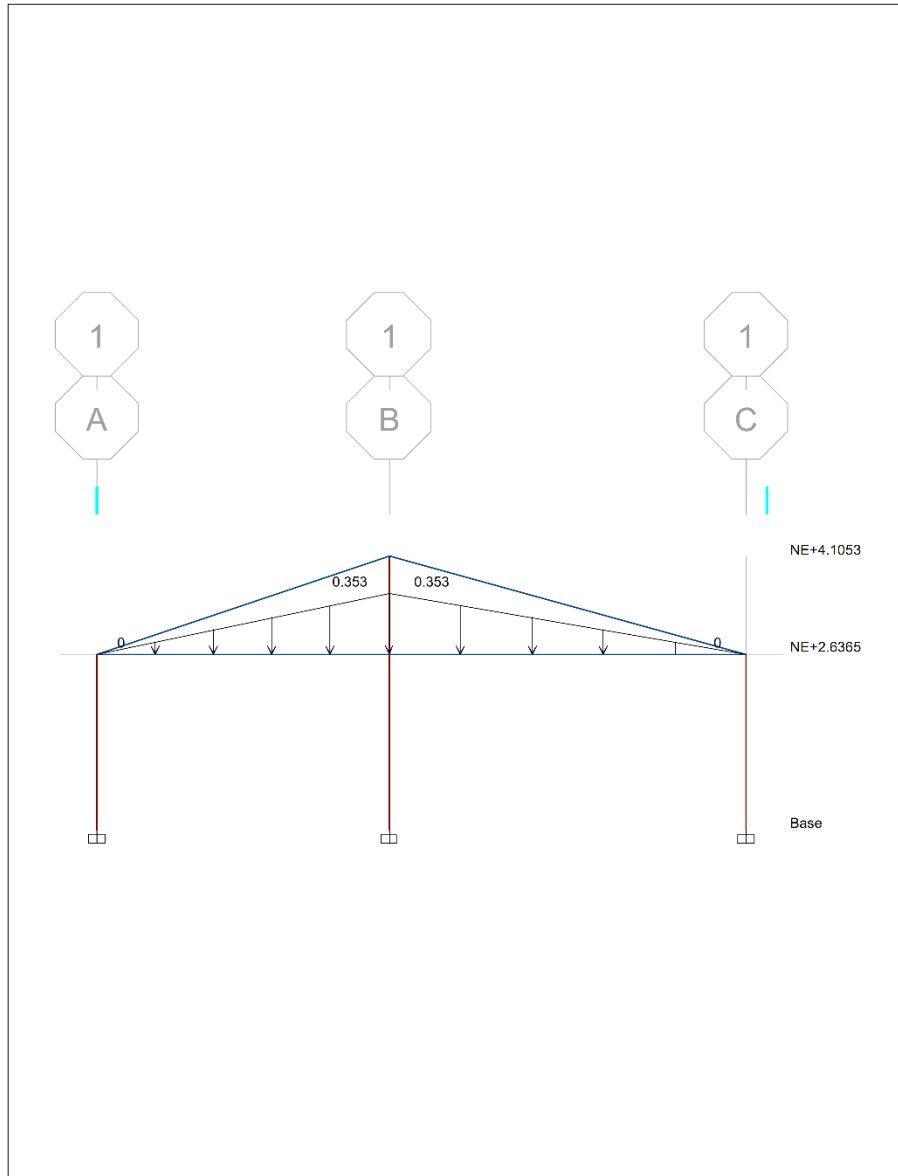


JARDIN INFANTIL CONCRETO.EDB

3-D View Uniform Loads Gravity (CV)

Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 45
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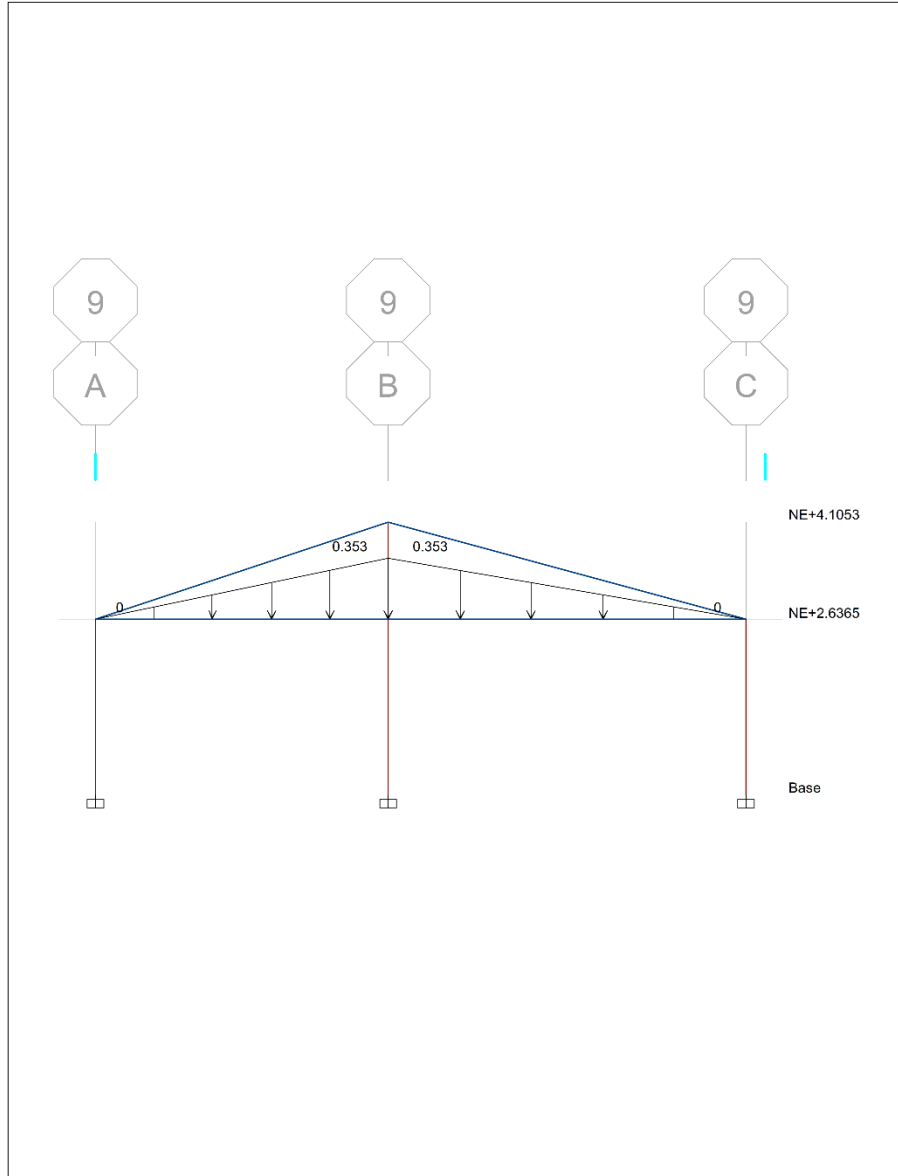
ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETONE View - 1 Frame Span Loads (CA)

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ETABS 2015 15.2.2



JARDIN INFANTIL CONCRETON View - 9 Frame Span Loads (CA)

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RESUMEN DE DENSIDADES POR PISO

Porcentaje de diferencia entre avalúo de cargas y modelo matemático	0.774%	ok es menor que el 5 %
Porcentaje de participaicon de masas en los sentidos principales de la estrucutra		
Sentido X	99.96%	ok
Sentido Y	100.00%	ok

CALIF.estruc.	REGULAR
%AJUSTE V=	0.8

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7.6 Derivas Admisibles

La evaluación de los desplazamientos horizontales de la basílica de nuestra señora del socorro se realiza conforme a los lineamientos de la NSR-10, donde en su capítulo A.6.4.1 establece que la deriva máxima para cualquier piso no puede exceder de los límites de la tabla A.6.4-1, en la cual la deriva máxima se expresa como un porcentaje de la altura de piso.

Tabla A.6.4-1
Derivas máximas como porcentaje de h_{pi}

Estructuras de:	Deriva máxima
concreto reforzado, metálicas, de madera, y de mampostería que cumplen los requisitos de A.6.4.1.3	1.0% $\left(\Delta_{\max}^i \leq 0.010 h_{pi} \right)$
de mampostería que cumplen los requisitos de A.6.4.1.4	0.5% $\left(\Delta_{\max}^i \leq 0.005 h_{pi} \right)$

A continuación, se presenta el cuadro de resumen de los índices de flexibilidad para la estructura.

ÍNDICES DE FLEXIBILIDAD	
COMBINACIÓN 1	0.00%
COMBINACIÓN 2	0.35%
COMBINACIÓN 3	0.35%
COMBINACIÓN 4	0.22%
COMBINACIÓN 5	0.22%
COMBINACIÓN 6	0.35%
COMBINACIÓN 7	0.35%
COMBINACIÓN 8	0.22%
COMBINACIÓN 9	0.22%

DERIVAS ADMISIBLES								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 1 MAX		-0.0074 0.0000	-0.0002 0.0000	0.01	0.00	0.01	2.64	0.00
NE+2.6365	8							
BASE	8							
NE+2.6365	27							
BASE	27							
NE+2.6365	54							
BASE	54							
NE+2.6365	10	-0.0073 0.0000	-0.0001 0.0000	0.01	0.00	0.01	2.64	0.00
BASE	10							
NE+2.6365	2	-0.0072 0.0000	-0.0002 0.0000	0.01	0.00	0.01	2.64	0.00
BASE	2							
NE+2.6365	25	-0.0072 0.0000	-0.0001 0.0000	0.01	0.00	0.01	2.64	0.00
BASE	25							

COMB 2 MAX								
NE+2.6365	8	0.9189	0.0117	0.92	0.01	0.92	2.64	0.35
BASE	8	0.0000	0.0000					
NE+2.6365	27	0.9189	0.0130	0.92	0.01	0.92	2.64	0.35
BASE	27	0.0000	0.0000					
NE+2.6365	54	0.8900	0.0117	0.89	0.01	0.89	2.64	0.34
BASE	54	0.0000	0.0000					
NE+2.6365	10	0.8900	0.0130	0.89	0.01	0.89	2.64	0.34
BASE	10	0.0000	0.0000					
NE+2.6365	2	0.8644	0.0117	0.86	0.01	0.86	2.64	0.33
BASE	2	0.0000	0.0000					
NE+2.6365	25	0.8644	0.0130	0.86	0.01	0.86	2.64	0.33
BASE	25	0.0000	0.0000					
COMB 3 MAX								
NE+2.6365	8	-0.9326	-0.0120	0.93	0.01	0.93	2.64	0.35
BASE	8	0.0000	0.0000					
NE+2.6365	27	-0.9326	-0.0133	0.93	0.01	0.93	2.64	0.35
BASE	27	0.0000	0.0000					
NE+2.6365	54	-0.9036	-0.0120	0.90	0.01	0.90	2.64	0.34
BASE	54	0.0000	0.0000					
NE+2.6365	10	-0.9036	-0.0133	0.90	0.01	0.90	2.64	0.34
BASE	10	0.0000	0.0000					
NE+2.6365	2	-0.8779	-0.0120	0.88	0.01	0.88	2.64	0.33
BASE	2	0.0000	0.0000					
NE+2.6365	25	-0.8779	-0.0133	0.88	0.01	0.88	2.64	0.33
BASE	25	0.0000	0.0000					

COMB 4 MAX								
NE+2.6365 BASE	8 8	0.0385 0.0000	0.5761 0.0000	0.04	0.58	0.58	2.64	0.22
NE+2.6365 BASE	27 27	0.0385 0.0000	0.5797 0.0000	0.04	0.58	0.58	2.64	0.22
NE+2.6365 BASE	54 54	-0.0037 0.0000	0.5761 0.0000	0.00	0.58	0.58	2.64	0.22
NE+2.6365 BASE	10 10	-0.0037 0.0000	0.5797 0.0000	0.00	0.58	0.58	2.64	0.22
NE+2.6365 BASE	2 2	0.0400 0.0000	0.5761 0.0000	0.04	0.58	0.58	2.64	0.00
NE+2.6365 BASE	25 25	0.0400 0.0000	0.5797 0.0000	0.04	0.58	0.58	2.64	0.22
COMB 5 MAX								
NE+2.6365 BASE	8 8	-0.0522 0.0000	-0.5764 0.0000	0.05	0.58	0.58	2.64	0.22
NE+2.6365 BASE	27 27	-0.0522 0.0000	-0.5800 0.0000	0.05	0.58	0.58	2.64	0.22
NE+2.6365 BASE	54 54	-0.0099 0.0000	-0.5764 0.0000	0.01	0.58	0.58	2.64	0.22
NE+2.6365 BASE	10 10	-0.0099 0.0000	-0.5800 0.0000	0.01	0.58	0.58	2.64	0.22
NE+2.6365 BASE	2 2	-0.0535 0.0000	-0.5764 0.0000	0.05	0.58	0.58	2.64	0.22
NE+2.6365 BASE	25 25	-0.0535 0.0000	-0.5800 0.0000	0.05	0.58	0.58	2.64	0.22

COMB 6 MAX								
NE+2.6365	8	0.9212	0.0117	0.92	0.01	0.92	2.64	0.35
BASE	8	0.0000	0.0000					
NE+2.6365	27	0.9212	0.0131	0.92	0.01	0.92	2.64	0.35
BASE	27	0.0000	0.0000					
NE+2.6365	54	0.8923	0.0117	0.89	0.01	0.89	2.64	0.34
BASE	54	0.0000	0.0000					
NE+2.6365	10	0.8923	0.0131	0.89	0.01	0.89	2.64	0.34
BASE	10	0.0000	0.0000					
NE+2.6365	2	0.8667	0.0117	0.87	0.01	0.87	2.64	0.33
BASE	2	0.0000	0.0000					
NE+2.6365	25	0.8667	0.0131	0.87	0.01	0.87	2.64	0.33
BASE	25	0.0000	0.0000					
COMB 7 MAX								
NE+2.6365	8	-0.9303	-0.0119	0.93	0.01	0.93	2.64	0.35
BASE	8	0.0000	0.0000					
NE+2.6365	27	-0.9303	-0.0132	0.93	0.01	0.93	2.64	0.35
BASE	27	0.0000	0.0000					
NE+2.6365	54	-0.9013	-0.0119	0.90	0.01	0.90	2.64	0.34
BASE	54	0.0000	0.0000					
NE+2.6365	10	-0.9013	-0.0132	0.90	0.01	0.90	2.64	0.34
BASE	10	0.0000	0.0000					
NE+2.6365	2	-0.8756	-0.0119	0.88	0.01	0.88	2.64	0.33
BASE	2	0.0000	0.0000					
NE+2.6365	25	-0.8756	-0.0132	0.88	0.01	0.88	2.64	0.33
BASE	25	0.0000	0.0000					

COMB 8 MAX								
NE+2.6365 BASE	8 8	0.0408 0.0000	0.5762 0.0000	0.04	0.58	0.58	2.64	0.22
NE+2.6365 BASE	27 27	0.0408 0.0000	0.5798 0.0000	0.04	0.58	0.58	2.64	0.22
NE+2.6365 BASE	54 54	-0.0014 0.0000	0.5762 0.0000	0.00	0.58	0.58	2.64	0.22
NE+2.6365 BASE	10 10	-0.0014 0.0000	0.5798 0.0000	0.00	0.58	0.58	2.64	0.22
NE+2.6365 BASE	2 2	0.0423 0.0000	0.5762 0.0000	0.04	0.58	0.58	2.64	0.22
NE+2.6365 BASE	25 25	0.0423 0.0000	0.5798 0.0000	0.04	0.58	0.58	2.64	0.22
COMB 9 MAX								
NE+2.6365 BASE	8 8	-0.0499 0.0000	-0.5764 0.0000	0.05	0.58	0.58	2.64	0.22
NE+2.6365 BASE	27 27	-0.0499 0.0000	-0.5799 0.0000	0.05	0.58	0.58	2.64	0.22
NE+2.6365 BASE	54 54	-0.0076 0.0000	-0.5764 0.0000	0.01	0.58	0.58	2.64	0.22
NE+2.6365 BASE	10 10	-0.0076 0.0000	-0.5799 0.0000	0.01	0.58	0.58	2.64	0.22
NE+2.6365 BASE	2 2	-0.0512 0.0000	-0.5764 0.0000	0.05	0.58	0.58	2.64	0.22
NE+2.6365 BASE	25 25	-0.0512 0.0000	-0.5799 0.0000	0.05	0.58	0.58	2.64	0.22

7.6.1 Verificación Irregularidad Torsional

VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL

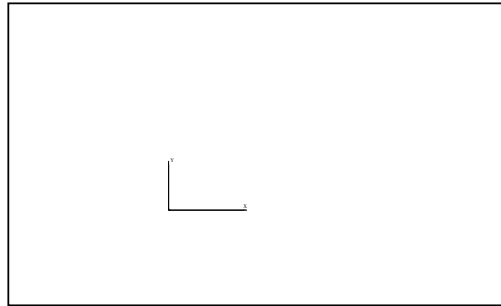
Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal

8

27

2

25



REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X

Caso de Carga: 2

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 27 25

Nudo: 8 2

Nivel	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax
NE+2.6365	0.92	0.86	1.07		NO	0.74	0.92	0.86	1.07		NO	0.74

SISMO EN Y

Caso de Carga: 4

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 8 27

Nudo: 2 25

Nivel	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax
NE+2.6365	0.58	0.58	0.70		NO	0.69	0.58	0.58	0.70		NO	0.69

7.7 Análisis Sísmico del Umbral de Daño

DEFINICION DE MOVIMIENTO SISMICO DE UMBRAL DE DAÑO																							
a.-	Ubicación del proyecto:	Carrera 10 # 1-59 Sur, Antonio Nariño																					
b.-	Zona de amenaza sísmica:	Intermedia																					
c.-	Valor de Ad	Ad = 0.06																					
d.-	Valor de Aod	Aod= 0.09																					
e.-	Zona de Respuesta Sísmica (Microzonificación):	Aluvial 50																					
f.-	Tipo de perfil de suelo:	<table border="1"> <thead> <tr> <th></th> <th>Fa</th> <th>Fv</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>1.5</td> <td>2.5</td> </tr> <tr> <td>E</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td></td> <td></td> </tr> </tbody> </table>		Fa	Fv	A			B			C			D	1.5	2.5	E			F		
	Fa	Fv																					
A																							
B																							
C																							
D	1.5	2.5																					
E																							
F																							
g.-	Grupo de uso	III																					
h.-	Coefficiente de importancia:	I 1.25																					
i.-	Coefficiente de amortig. crítico	C.C.A: 2%																					
j.-	Espectro de diseño:	Elástico																					
Observaciones:		Revisó: _____ Ejecutó: _____																					
Según numeral A.6.2.1.2, el coeficiente de importancia a utilizar para el cálculo del desplazamiento horizontal I= 1 y para el diseño III= 1.25																							

CARACTERISTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA

a.-	Sistema estructural:	PORTICO RESISTENTES A MOMENTOS CON CAPACIDAD MODERADA DE DISIPACION
b.-	Material	CONCRETO
c.-	Capacidad de disipación de energía	Moderada (DMO)
d.-	Coeficiente de capacidad básica de modificación de respuesta	$R_o = 5.0$
	Coeficiente de Sobre resistencia	$\Omega_0 = 3.0$
e-	Número de edificaciones	1
f-	Número de pisos	1 PISO

Observaciones:

Revisó: _____
Ejecutó: _____

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IRREGULARIDAD DE LA EDIFICACION

a.- EDIFICACION: 3 PISOS

b.- CONFIGURACION EN PLANTA

TIPO	DESCRIPCION	ϕp
1aP	Irregularidad torsional	1.0
1bP	Irregularidad torsional extrema	1.0
2P	Retrocesos en esquinas	1.0
3P	Discontinuidades en el diafragma	1.0
4P	Desplaz. de elementos verticales	1.0
5P	Sistemas no paralelos	1.0
$\Phi p=$	1.0	

c.- CONFIGURACION EN ALTURA

TIPO	DESCRIPCION	ϕa
1aA	Piso flexible (irregularidad en rigidez)	1.0
1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
2A	Distribución masa	1.0
3A	Irregularidad geométrica	1.0
4A	Desplaz. dentro del plano de acción	1.0
5aA	Piso débil- discontinuidad en la resistencia	1.0
5bA	Piso débil- discontinuidad extrema resistencia	1.0
Φa	1.0	

d.- AUSENCIA DE REDUNDANCIA ϕRx 1.00
 ϕry 1.00

e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA
 $R_o=$ 5.0

f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA

$R=$ $(\phi a) \times (\phi p) \times (\phi r) \times R_o$
 $RX=$ 5.00
 $RY=$ 5.00

g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS

Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y

h.- MEZCLA DE SISTEMAS ESTRUCTURALES

No existe, ni en planta ni en altura.

Observaciones:

Revisó: _____
Ejecutó: _____

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CARACTERISTICAS DEL DISEÑO

a.- METODO DE ANALISIS SISMICO UTILIZADO

A.D.E. ANALISIS DINAMICO ELASTICO

b.- METODO DE ANALISIS ESTRUCTURAL

Análisis matricial: Estructura principal

c.- METODO DE DISEÑO

Esfuerzos ultimos

Observaciones:

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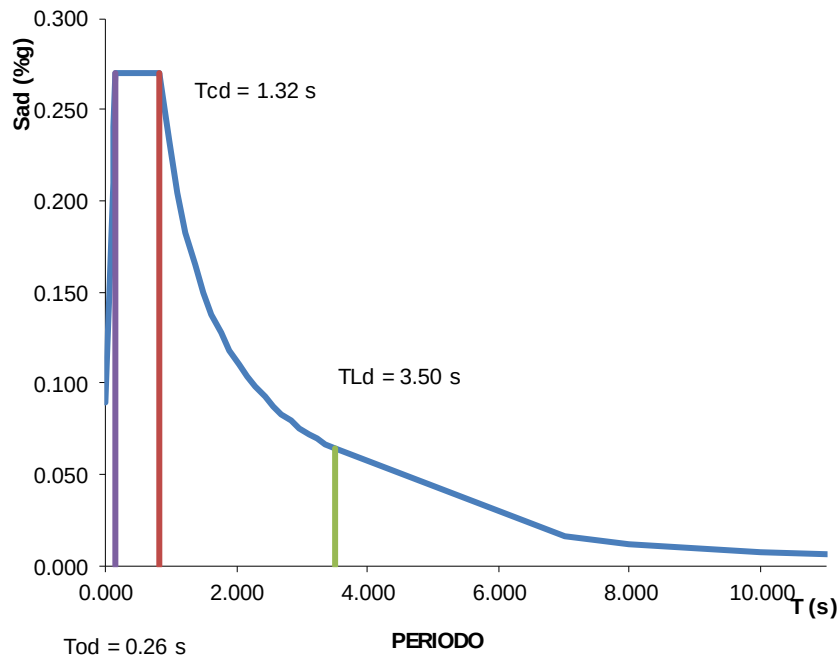
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ESPECTRO SISMICO DE UMBRAL DE DAÑO	
MODELO NSR-10	
a. - PERIODO DE LA ESTRUCTURA	
Ta=	Ct x h ^α PORTICO RESISTENTES A MOMENTOS CON
Ct=	0.047 CAPACIDAD MODERADA DE DISCIPACON DE
α=	0.90 ENERGIA
hn=	4.105 m.
T=	0.22
b. - PARÁMETROS	
Ad= 0.06	Aod= 0.09
Fa= 1.50	Fv= 2.50
I = 1.00	
Idis= 1.25	
c. - LIMITES DEL PERIODO	
Tod= (0.1*Fv)/(Fa)	= 0.17
Tcd= (0.5*Fv)/(Fa)	= 0.83
TLd= TLd	= 3.50
d. - ESPECTRO PARA PERIODOS MENORES A Tod.	
Sa do =	Sado= 0.33
e. - ESPECTRO PARA PERIODOS ENTRE Tod y Tc.	
Sa d1= 3.0 * Ad * Fa =	Sad1= 0.27
f. - ESPECTRO DE ACELERACIONES EN FUNCION DE T	
Sa d2= $\frac{1.5 * Ad * Fv}{T}$	Sa 2= 1.02
g. - ESPECTRO PARA PERIODOS MAYORES A TL.	
Sa d3= $\frac{1.5 * Ad * Fv * TLd}{T^2}$	Sa 3= 0.79 /T ² 16.2
h. - ESPECTRO SISMICO DE DISEÑO	
Sa = 0.27	27% (g)
Para el diseño el espectro sísmico según NSR-10, entonces Sa=0.27 = 27% (g)	
Observaciones:	Revisó: _____ Ejecutó: _____

ESPECTRO SISMICO DE UMBRAL DE DAÑO

CURVAS DE ESPECTROS DE ACUERDO A LA NSR-10

ESPECTRO DE DISEÑO



Observaciones:

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7.8 Análisis de fuerzas Sísmicas del Umbral de Daño ANALISIS DE FUERZA SISMICA UMBRAL DE DAÑO

RESUMEN DE DENSIDADES POR PISO

PISO	AREA (m2)	VIGAS (T/m ²)	PLACA (T/m ²)	VIGUETA (T/m ²)	M. NE (T/m ²)	COLUMNAS (T/m ²)	MURO CONT. (T/m ²)	CUBIERTA (T/m2)	ESCALERAS (T/m2)	TOTAL (T/m ²)	TOTAL (T)
N +4.11	268.74	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	5.18
N -2.64	268.74	0.04	0.00	0.00	0.01	0.02	0.00	0.17	0.00	0.24	65.68
N -0.00	268.74	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	5.34
A. Total	806.21	Peso a cimentación								0.09	76.19

DISTRIBUCION DE CARGAS SISMICAS

CALIF.estruc.

REGULAR

%AJUSTE V=

0.8

PISO	h (m)	h ACUM.	h^k	w (t)	wh^k	Cv (%)	Fx (t)	M (t.m)
N +4.11	1.47	4.11	4.11	5.18	21.25	0.11	6.09	1.75
N -2.64	2.64	2.64	2.64	65.68	173.16	0.89	49.63	14.27
N -0.00	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00
				76.19	194.40	1.00	55.71	16.02

Vd_{x-x} 29.09
Vd_{y-y} 28.78

T= 0.22	
W= 76.19 t	V= 30.2 t
k= 1.00	Sa= 0.40

AJUSTE	%	g
SENTIDO X	1.00	9.81
SENTIDO Y	1.00	9.81

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7.9 Derivas Admisibles del Umbral de Daño

La evaluación de los desplazamientos horizontales para el umbral de daño del edificio de inmunología se realiza conforme a los lineamientos de la NSR-10, donde en su capítulo A.12.5 establece que la deriva máxima para cualquier piso no puede exceder de los límites de la tabla A.12.5-1, en la cual la deriva máxima se expresa como un porcentaje de la altura de piso.

Tabla A.12.5-1
Derivas máximas para el umbral de daño como porcentaje de h_{pi}

Estructuras de:	Deriva máxima
concreto reforzado, metálicas, de madera, y de mampostería que cumplen los requisitos de A.12.5.3.1	$0.40\% \left(\Delta_{\max}^i \leq 0.0040 h_{pi} \right)$
de mampostería que cumplen los requisitos de A.12.5.3.2	$0.20\% \left(\Delta_{\max}^i \leq 0.0020 h_{pi} \right)$

A continuación, se presenta el cuadro de resumen de los índices de flexibilidad para la estructura para el umbral de daño como % absoluto donde el 1% representa el máximo permitido

ÍNDICES DE FLEXIBILIDAD UMBRAL DE DAÑO	
COMBINACIÓN 1	0.01 %
COMBINACIÓN 2	0.47 %
COMBINACIÓN 3	0.48 %
COMBINACIÓN 4	0.30 %
COMBINACIÓN 5	0.30 %
COMBINACIÓN 6	0.47 %
COMBINACIÓN 7	0.48 %
COMBINACIÓN 8	0.30 %
COMBINACIÓN 9	0.30 %

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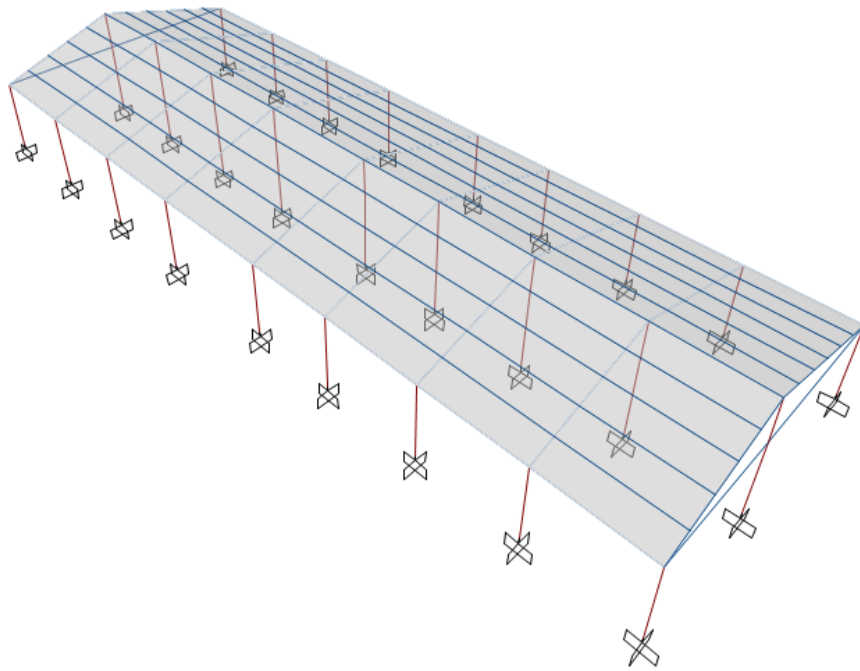
DERIVAS UMBRAL DE DAÑO								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 1 MAX								
NE+2.6365	8							
BASE	8							
NE+2.6365	27							
BASE	27							
NE+2.6365	54							
BASE	54							
NE+2.6365	10	-0.0073	-0.0002	0.01	0.00	0.01	1.05	0.01
BASE	10	0.0000	0.0000					
NE+2.6365	2	-0.0072	-0.0002	0.01	0.00	0.01	1.05	0.01
BASE	2	0.0000	0.0000					
NE+2.6365	25	-0.0072	-0.0001	0.01	0.00	0.01	1.05	0.01
BASE	25	0.0000	0.0000					

COMB 2 MAX								
NE+2.6365 BASE	8 8	0.4969 0.000	0.0069 0.0000	0.50	0.01	0.50	1.05	0.47
NE+2.6365 BASE	27 27	0.4969 0.0000	0.0079 0.0000	0.50	0.01	0.50	1.05	0.47
NE+2.6365 BASE	54 54	0.4787 0.0000	0.0069 0.0000	0.48	0.01	0.48	1.05	0.45
NE+2.6365 BASE	10 10	0.4787 0.0000	0.0079 0.0000	0.48	0.01	0.48	1.05	0.45
NE+2.6365 BASE	2 2	0.4625 0.0000	0.0069 0.0000	0.46	0.01	0.46	1.05	0.44
NE+2.6365 BASE	25 25	0.4625 0.0000	0.0079 0.0000	0.46	0.01	0.46	1.05	0.44
COMB 3 MIN								
NE+2.6365 BASE	8 8	-0.5107 0.0000	-0.0072 0.0000	0.51	0.01	0.51	1.05	0.48
NE+2.6365 BASE	27 27	-0.5107 0.0000	-0.0082 0.0000	0.51	0.01	0.51	1.05	0.48
NE+2.6365 BASE	54 54	-0.4923 0.0000	-0.0072 0.0000	0.49	0.01	0.49	1.05	0.47
NE+2.6365 BASE	10 10	-0.4923 0.0000	-0.0082 0.0000	0.49	0.01	0.49	1.05	0.47
NE+2.6365 BASE	2 2	-0.4760 0.0000	-0.0072 0.0000	0.48	0.01	0.48	1.05	0.45
NE+2.6365 BASE	25 25	-0.4760 0.0000	-0.0082 0.0000	0.48	0.01	0.48	1.05	0.45

COMB 4 MAX								
NE+2.6365 BASE	8 8	0.0526 0.0000	0.3123 0.0000	0.05	0.31	0.32	1.05	0.30
NE+2.6365 BASE	27 27	0.0526 0.0000	0.3109 0.0000	0.05	0.31	0.32	1.05	0.30
NE+2.6365 BASE	54 54	-0.0027 0.0000	0.3123 0.0000	0.00	0.31	0.31	1.05	0.30
NE+2.6365 BASE	10 10	-0.0027 0.0000	0.3109 0.0000	0.00	0.31	0.31	1.05	0.29
NE+2.6365 BASE	2 2	0.0547 0.0000	0.3123 0.0000	0.05	0.31	0.32	1.05	0.30
NE+2.6365 BASE	25 25	0.0547 0.0000	0.3109 0.0000	0.05	0.31	0.32	1.05	0.30
COMB 5 MIN								
NE+2.6365 BASE	8 8	-0.0664 0.0000	-0.3126 0.0000	0.07	0.31	0.32	1.05	0.30
NE+2.6365 BASE	27 27	-0.0664 0.0000	-0.3111 0.0000	0.07	0.31	0.32	1.05	0.30
NE+2.6365 BASE	54 54	-0.0109 0.0000	-0.3126 0.0000	0.01	0.31	0.31	1.05	0.30
NE+2.6365 BASE	10 10	-0.0109 0.0000	-0.3111 0.0000	0.01	0.31	0.31	1.05	0.30
NE+2.6365 BASE	2 2	-0.0682 0.0000	-0.3126 0.0000	0.07	0.31	0.32	1.05	0.30
NE+2.6365 BASE	25 25	-0.0682 0.0000	-0.3111 0.0000	0.07	0.31	0.32	1.05	0.30

COMB 6 MAX								
NE+2.6365 BASE	8 8	0.4993 0.0000	0.0070 0.0000	0.50	0.01	0.50	1.05	0.47
NE+2.6365 BASE	27 27	0.4993 0.0000	0.0080 0.0000	0.50	0.01	0.50	1.05	0.47
NE+2.6365 BASE	54 54	0.4810 0.0000	0.0070 0.0000	0.48	0.01	0.48	1.05	0.46
NE+2.6365 BASE	10 10	0.4810 0.0000	0.0080 0.0000	0.48	0.01	0.48	1.05	0.46
NE+2.6365 BASE	2 2	0.4648 0.0000	0.0070 0.0000	0.46	0.01	0.46	1.05	0.44
NE+2.6365 BASE	25 25	0.4648 0.0000	0.0080 0.0000	0.46	0.01	0.46	1.05	0.44
COMB 7 MIN								
NE+2.6365 BASE	8 8	-0.5083 0.0000	-0.0072 0.0000	0.51	0.01	0.51	1.05	0.48
NE+2.6365 BASE	27 27	-0.5083 0.0000	-0.0081 0.0000	0.51	0.01	0.51	1.05	0.48
NE+2.6365 BASE	54 54	-0.4900 0.0000	-0.0072 0.0000	0.49	0.01	0.49	1.05	0.46
NE+2.6365 BASE	10 10	-0.4900 0.0000	-0.0081 0.0000	0.49	0.01	0.49	1.05	0.46
NE+2.6365 BASE	2 2	-0.4737 0.0000	-0.0072 0.0000	0.47	0.01	0.47	1.05	0.45
NE+2.6365 BASE	25 25	-0.4737 0.0000	-0.0081 0.0000	0.47	0.01	0.47	1.05	0.45

COMB 8 MAX								
NE+2.6365 BASE	8 8	0.0550 0.0000	0.3124 0.0000	0.06	0.31	0.32	1.05	0.30
NE+2.6365 BASE	27 27	0.0550 0.0000	0.3109 0.0000	0.06	0.31	0.32	1.05	0.30
NE+2.6365 BASE	54 54	-0.0004 0.0000	0.3124 0.0000	0.00	0.31	0.31	1.05	0.30
NE+2.6365 BASE	10 10	-0.0004 0.0000	0.3109 0.0000	0.00	0.31	0.31	1.05	0.29
NE+2.6365 BASE	2 2	0.0570 0.0000	0.3124 0.0000	0.06	0.31	0.32	1.05	0.30
NE+2.6365 BASE	25 25	0.0570 0.0000	0.3109 0.0000	0.06	0.31	0.32	1.05	0.30
COMB 9 MIN								
NE+2.6365 BASE	8 8	-0.0640 0.0000	-0.3126 0.0000	0.06	0.31	0.32	1.05	0.30
NE+2.6365 BASE	27 27	-0.0640 0.0000	-0.3111 0.0000	0.06	0.31	0.32	1.05	0.30
NE+2.6365 BASE	54 54	-0.0085 0.0000	-0.3126 0.0000	0.01	0.31	0.31	1.05	0.30
NE+2.6365 BASE	10 10	-0.0085 0.0000	-0.3111 0.0000	0.01	0.31	0.31	1.05	0.30
NE+2.6365 BASE	2 2	-0.0659 0.0000	-0.3126 0.0000	0.07	0.31	0.32	1.05	0.30
NE+2.6365 BASE	25 25	-0.0659 0.0000	-0.3111 0.0000	0.07	0.31	0.32	1.05	0.30

7.10 Análisis Estructural**7.10.1 Datos de Entrada****ETABS® 2015**
Integrated Building Design Software**DATOS DE ENTRADA 1****716-HSJD**

Model File: GRUPO 2- JARDIN INFANTIL CONCRETO, Revision 0

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1 Structure Data

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

Table 1.1 - Program Control

Program Name	Version	Level	License Number	Current Units	Steel Frame Code	Concrete Frame Code	Composite Beam Code	Composite Column Code	Shear Wall Code	Steel Connection Code
ETABS 2015	15.2.2	Ultimate	*145YDWTSYYXPQR6	Varies	AISC 360-10	ACI 318-08	AISC 360-10	AISC 360-10	ACI 318-08	AISC 360-10

1.1 Story Data

Table 1.2 - Story Data

Name	Height m	Elevation m	Master Story	Similar To	Splice Story
NE+4.1053	1.4688	4.1053	No	None	No
NE+2.6365	2.6365	2.6365	No	None	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.3 - Grid Systems

Name	Type	Story Range	X Origin m	Y Origin m	Rotation deg	Bubble Size m	Color
G1	Cartesian	Default	0	0	0	1.25	ffa0a0a0

Table 1.4 - Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate m
G1	X	A	Yes	End	0
G1	X	B	Yes	End	4.389
G1	X	C	Yes	End	9.7556
G1	X	D	No	End	10.0548
G1	Y	1	Yes	Start	0
G1	Y	2	Yes	Start	3.2718
G1	Y	3	Yes	Start	6.954
G1	Y	4	Yes	Start	10.3626
G1	Y	5	Yes	Start	13.4178
G1	Y	6	Yes	Start	17.7456
G1	Y	7	Yes	Start	21.1128
G1	Y	8	Yes	Start	24.51
G1	Y	9	Yes	Start	27.8942

1.3 Mass

Table 1.5 - Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault	Load Pattern	Multiplier
MsSrc1	No	No	Yes	Yes	No	Yes	Yes	PP	1
MsSrc1	No	No	Yes	Yes	No	Yes	Yes	CA	1

Table 1.6 - Centers of Mass and Rigidity

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Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulativ e X tonf-s ² /m	Cumulativ e Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
NE+4.1053	D1	1.58261	1.58261	4.7085	13.9102	1.58261	1.58261	4.7085	13.9102		
NE+2.6365	D1	2.18049	2.18049	4.7901	13.9138	3.7631	3.7631	4.7558	13.9123		

Table 1.7 - Mass Summary by Diaphragm

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	Mass Moment of Inertia tonf-m-s ²	X Mass Center m	Y Mass Center m
NE+4.1053	D1	1.58261	1.58261	116.6145	4.7085	13.9102
NE+2.6365	D1	2.18049	2.18049	273.0578	4.7901	13.9138

Table 1.8 - Mass Summary by Story

Story	UX tonf-s ² /m	UY tonf-s ² /m	UZ tonf-s ² /m
NE+4.1053	4.97762	4.97762	0
NE+2.6365	2.51997	2.51997	0
Base	0.54442	0.54442	0

1.4 Groups

Table 1.9 - Group Definitions

Name	Color
All	Yellow
DERIVAS	Red

Table 1.10 - Group Assignments

Name	Object Type	Unique Name	Label	Story
DERIVAS	Point	101	54	NE+2.6365
DERIVAS	Point	102	10	NE+2.6365
DERIVAS	Point	104	54	Base
DERIVAS	Point	106	10	Base
DERIVAS	Point	4	2	Base
DERIVAS	Point	5	2	NE+2.6365
DERIVAS	Point	11	25	Base
DERIVAS	Point	13	25	NE+2.6365
DERIVAS	Point	17	8	Base
DERIVAS	Point	19	8	NE+2.6365
DERIVAS	Point	21	27	Base
DERIVAS	Point	23	27	NE+2.6365

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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 tonf/m ²	ν	Unit Weight tonf/m ³	Design Strengths
24.5MPA	Concrete	2371438.64	0.2	2.4	Fc=2100 tonf/m ²
A615Gr60	Rebar	20389019.16	0.3	7.85	Fy=42184.18 tonf/m ² , Fu=63276.27 tonf/m ²
SNN MET	Steel	20389019.16	0.3	0	Fy=35153.48 tonf/m ² , Fu=45699.53 tonf/m ²

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
C25X25	24.5MPA	Concrete Rectangular
Correa	SNN MET	Steel Channel
V25X25	24.5MPA	Concrete Rectangular

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness m
CUB	Slab	Membrane	SNN MET	0.0001

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
NE+4.1053	29	6	D1	
NE+4.1053	31	8	D1	
NE+4.1053	33	10	D1	
NE+4.1053	35	12	D1	
NE+4.1053	37	14	D1	
NE+4.1053	72	28	D1	
NE+4.1053	74	31	D1	
NE+4.1053	76	32	D1	
NE+4.1053	79	2	D1	
NE+4.1053	21	318	D1	
NE+4.1053	135	358	D1	
NE+4.1053	242	279	D1	
NE+4.1053	243	280	D1	
NE+4.1053	244	281	D1	
NE+4.1053	245	282	D1	
NE+4.1053	246	283	D1	
NE+4.1053	247	284	D1	
NE+4.1053	248	285	D1	
NE+4.1053	249	286	D1	
NE+4.1053	250	287	D1	
NE+4.1053	251	288	D1	
NE+4.1053	252	289	D1	
NE+4.1053	253	290	D1	
NE+4.1053	254	291	D1	
NE+4.1053	255	292	D1	
NE+4.1053	256	293	D1	
NE+4.1053	257	294	D1	
NE+4.1053	258	295	D1	
NE+4.1053	259	296	D1	
NE+4.1053	260	297	D1	
NE+4.1053	261	298	D1	
NE+4.1053	262	299	D1	
NE+4.1053	263	300	D1	
NE+4.1053	264	301	D1	
NE+4.1053	265	302	D1	
NE+4.1053	266	303	D1	
NE+4.1053	267	304	D1	
NE+4.1053	268	305	D1	
NE+4.1053	269	306	D1	
NE+4.1053	270	307	D1	
NE+4.1053	271	308	D1	
NE+4.1053	272	309	D1	
NE+4.1053	273	310	D1	
NE+4.1053	274	311	D1	
NE+4.1053	275	312	D1	
NE+4.1053	276	313	D1	

Story	Label	Unique Name	Diaphragm	Restraints
NE+4.1053	277	314	D1	
NE+4.1053	279	316	D1	
NE+4.1053	280	317	D1	
NE+4.1053	281	319	D1	
NE+4.1053	282	320	D1	
NE+4.1053	283	321	D1	
NE+4.1053	311	356	D1	
NE+4.1053	312	357	D1	
NE+4.1053	313	359	D1	
NE+4.1053	314	360	D1	
NE+4.1053	3	15	D1	
NE+4.1053	6	20	D1	
NE+4.1053	12	22	D1	
NE+4.1053	13	24	D1	
NE+4.1053	15	25	D1	
NE+4.1053	16	26	D1	
NE+4.1053	17	29	D1	
NE+4.1053	18	33	D1	
NE+4.1053	19	40	D1	
NE+4.1053	22	41	D1	
NE+4.1053	23	42	D1	
NE+4.1053	26	43	D1	
NE+4.1053	28	44	D1	
NE+4.1053	30	45	D1	
NE+4.1053	32	46	D1	
NE+4.1053	34	47	D1	
NE+4.1053	36	48	D1	
NE+4.1053	38	49	D1	
NE+4.1053	40	50	D1	
NE+4.1053	41	51	D1	
NE+4.1053	42	52	D1	
NE+4.1053	43	53	D1	
NE+4.1053	44	54	D1	
NE+4.1053	45	55	D1	
NE+4.1053	47	56	D1	
NE+4.1053	48	57	D1	
NE+4.1053	49	58	D1	
NE+4.1053	50	59	D1	
NE+4.1053	52	60	D1	
NE+4.1053	53	61	D1	
NE+4.1053	55	62	D1	
NE+4.1053	56	63	D1	
NE+4.1053	58	64	D1	
NE+4.1053	59	65	D1	
NE+2.6365	39	71	D1	
NE+2.6365	46	89	D1	
NE+2.6365	51	95	D1	
NE+2.6365	54	101	D1	
NE+2.6365	57	107	D1	
NE+2.6365	61	114	D1	
NE+2.6365	65	121	D1	
NE+2.6365	2	5	D1	
NE+2.6365	8	19	D1	

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Story	Label	Unique Name	Diaphragm	Restraints
NE+2.6365	4	72	D1	
NE+2.6365	5	90	D1	
NE+2.6365	9	96	D1	
NE+2.6365	10	102	D1	
NE+2.6365	11	108	D1	
NE+2.6365	14	115	D1	
NE+2.6365	20	122	D1	
NE+2.6365	25	13	D1	
NE+2.6365	27	23	D1	
NE+2.6365	29	79	D1	
NE+2.6365	31	91	D1	
NE+2.6365	33	34	D1	
NE+2.6365	35	35	D1	
NE+2.6365	37	39	D1	
NE+2.6365	72	38	D1	
NE+2.6365	74	9	D1	
NE+2.6365	76	30	D1	
NE+2.6365	79	16	D1	
Base	39	77	From Area	UX; UY; UZ; RX; RY; RZ
Base	46	92	From Area	UX; UY; UZ; RX; RY; RZ
Base	51	98	From Area	UX; UY; UZ; RX; RY; RZ
Base	54	104	From Area	UX; UY; UZ; RX; RY; RZ
Base	57	110	From Area	UX; UY; UZ; RX; RY; RZ
Base	61	117	From Area	UX; UY; UZ; RX; RY; RZ
Base	65	124	From Area	UX; UY; UZ; RX; RY; RZ
Base	2	4	From Area	UX; UY; UZ; RX; RY; RZ
Base	8	17	From Area	UX; UY; UZ; RX; RY; RZ
Base	4	80	From Area	UX; UY; UZ; RX; RY; RZ
Base	5	94	From Area	UX; UY; UZ; RX; RY; RZ
Base	9	100	From Area	UX; UY; UZ; RX; RY; RZ
Base	10	106	From Area	UX; UY; UZ; RX; RY; RZ
Base	11	112	From Area	UX; UY; UZ; RX; RY; RZ
Base	14	119	From Area	UX; UY; UZ; RX; RY; RZ
Base	20	126	From Area	UX; UY; UZ; RX; RY; RZ
Base	25	11	From Area	UX; UY; UZ; RX; RY; RZ
Base	27	21	From Area	UX; UY; UZ; RX; RY; RZ
Base	29	78	From Area	UX; UY; UZ; RX; RY; RZ
Base	31	93	From Area	UX; UY; UZ; RX; RY; RZ
Base	33	99	From Area	UX; UY; UZ; RX; RY; RZ

Story	Label	Unique Name	Diaphragm	Restraints
Base	35	105	From Area	UX; UY; UZ; RX; RY; RZ
Base	37	118	From Area	UX; UY; UZ; RX; RY; RZ
Base	72	37	From Area	UX; UY; UZ; RX; RY; RZ
Base	74	7	From Area	UX; UY; UZ; RX; RY; RZ
Base	76	27	From Area	UX; UY; UZ; RX; RY; RZ
Base	79	18	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
	Base	39	77	Yes	Yes	Yes	Yes	Yes	Yes
	Base	46	92	Yes	Yes	Yes	Yes	Yes	Yes
	Base	51	98	Yes	Yes	Yes	Yes	Yes	Yes
	Base	54	104	Yes	Yes	Yes	Yes	Yes	Yes
	Base	57	110	Yes	Yes	Yes	Yes	Yes	Yes
	Base	61	117	Yes	Yes	Yes	Yes	Yes	Yes
	Base	65	124	Yes	Yes	Yes	Yes	Yes	Yes
	Base	2	4	Yes	Yes	Yes	Yes	Yes	Yes
	Base	8	17	Yes	Yes	Yes	Yes	Yes	Yes
	Base	4	80	Yes	Yes	Yes	Yes	Yes	Yes
	Base	5	94	Yes	Yes	Yes	Yes	Yes	Yes
	Base	9	100	Yes	Yes	Yes	Yes	Yes	Yes
	Base	10	106	Yes	Yes	Yes	Yes	Yes	Yes
	Base	11	112	Yes	Yes	Yes	Yes	Yes	Yes
	Base	14	119	Yes	Yes	Yes	Yes	Yes	Yes
	Base	20	126	Yes	Yes	Yes	Yes	Yes	Yes
	Base	25	11	Yes	Yes	Yes	Yes	Yes	Yes
	Base	27	21	Yes	Yes	Yes	Yes	Yes	Yes
	Base	29	78	Yes	Yes	Yes	Yes	Yes	Yes
	Base	31	93	Yes	Yes	Yes	Yes	Yes	Yes
	Base	33	99	Yes	Yes	Yes	Yes	Yes	Yes
	Base	35	105	Yes	Yes	Yes	Yes	Yes	Yes
	Base	37	118	Yes	Yes	Yes	Yes	Yes	Yes
	Base	72	37	Yes	Yes	Yes	Yes	Yes	Yes
	Base	74	7	Yes	Yes	Yes	Yes	Yes	Yes
	Base	76	27	Yes	Yes	Yes	Yes	Yes	Yes
	Base	79	18	Yes	Yes	Yes	Yes	Yes	Yes

3.2 Frame Assignments

Table 3.3 - Frame Assignments - Summary

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+4.1053	C24	9	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C25	10	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C26	11	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C28	12	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C31	13	Column	1.4688	C25X25	N/A	11	No

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Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+4.1053	C34	30	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C37	68	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C40	69	Column	1.4688	C25X25	N/A	11	No
NE+4.1053	C43	22	Column	1.4688	C25X25	N/A	11	No
NE+2.6365	C27	43	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C30	50	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C33	53	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C36	56	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C39	59	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C42	62	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C45	65	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C3	2	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C6	5	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C1	45	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C2	52	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C17	55	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C18	58	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C19	61	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C20	64	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C21	67	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C22	4	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C23	6	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C24	44	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C25	51	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C26	54	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C28	57	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C31	63	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C34	26	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C37	3	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C40	7	Column	2.6365	C25X25	N/A	11	No
NE+2.6365	C43	38	Column	2.6365	C25X25	N/A	11	No
NE+4.1053	B73	16	Beam	3.4016	V25X25	N/A	11	No
NE+4.1053	B74	17	Beam	3.4057	V25X25	N/A	11	No
NE+4.1053	B75	18	Beam	3.38301	V25X25	N/A	11	No
NE+4.1053	B76	19	Beam	3.0466	V25X25	N/A	11	No
NE+4.1053	B77	20	Beam	4.3035	V25X25	N/A	11	No
NE+4.1053	B78	150	Beam	3.4314	V25X25	N/A	11	No
NE+4.1053	B5	430	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B7	149	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B10	151	Beam	3.4224	V25X25	N/A	11	No
NE+4.1053	B11	152	Beam	3.5	V25X25	N/A	11	No
NE+4.1053	B9	148	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B33	429	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B340	337	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B341	338	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B342	339	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B343	340	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B344	341	Beam	3.41824	Correa	N/A	11	Yes
NE+4.1053	B345	342	Beam	3.40788	Correa	N/A	11	Yes
NE+4.1053	B346	343	Beam	4.32702	Correa	N/A	11	Yes
NE+4.1053	B347	344	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B348	345	Beam	3.383	Correa	N/A	11	Yes

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Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+4.1053	B349	346	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B350	347	Beam	3.40576	Correa	N/A	11	Yes
NE+4.1053	B351	348	Beam	3.41928	Correa	N/A	11	Yes
NE+4.1053	B352	349	Beam	3.41376	Correa	N/A	11	Yes
NE+4.1053	B353	350	Beam	4.32114	Correa	N/A	11	Yes
NE+4.1053	B354	351	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B355	352	Beam	3.383	Correa	N/A	11	Yes
NE+4.1053	B356	353	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B357	354	Beam	3.40472	Correa	N/A	11	Yes
NE+4.1053	B358	355	Beam	3.40368	Correa	N/A	11	Yes
NE+4.1053	B359	356	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B360	357	Beam	3.383	Correa	N/A	11	Yes
NE+4.1053	B361	358	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B362	359	Beam	4.31526	Correa	N/A	11	Yes
NE+4.1053	B363	360	Beam	3.41964	Correa	N/A	11	Yes
NE+4.1053	B364	361	Beam	3.42032	Correa	N/A	11	Yes
NE+4.1053	B366	363	Beam	3.42552	Correa	N/A	11	Yes
NE+4.1053	B367	364	Beam	4.30938	Correa	N/A	11	Yes
NE+4.1053	B368	365	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B369	366	Beam	3.38301	Correa	N/A	11	Yes
NE+4.1053	B370	367	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B371	368	Beam	3.40264	Correa	N/A	11	Yes
NE+4.1053	B431	428	Beam	3.42136	Correa	N/A	11	Yes
NE+4.1053	B116	133	Beam	3.40247	Correa	N/A	11	Yes
NE+4.1053	B117	134	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B118	135	Beam	3.38301	Correa	N/A	11	Yes
NE+4.1053	B119	136	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B120	137	Beam	4.3084	Correa	N/A	11	Yes
NE+4.1053	B121	138	Beam	3.4265	Correa	N/A	11	Yes
NE+4.1053	B122	139	Beam	3.42153	Correa	N/A	11	Yes
NE+4.1053	B123	140	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B124	141	Beam	3.40333	Correa	N/A	11	Yes
NE+4.1053	B125	142	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B126	143	Beam	3.383	Correa	N/A	11	Yes
NE+4.1053	B127	144	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B128	145	Beam	4.3133	Correa	N/A	11	Yes
NE+4.1053	B129	146	Beam	3.4216	Correa	N/A	11	Yes
NE+4.1053	B130	147	Beam	3.42066	Correa	N/A	11	Yes
NE+4.1053	B131	153	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B132	154	Beam	3.4042	Correa	N/A	11	Yes
NE+4.1053	B133	155	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B134	156	Beam	3.383	Correa	N/A	11	Yes
NE+4.1053	B135	157	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B136	158	Beam	4.3182	Correa	N/A	11	Yes
NE+4.1053	B137	159	Beam	3.4167	Correa	N/A	11	Yes
NE+4.1053	B138	160	Beam	3.4198	Correa	N/A	11	Yes
NE+4.1053	B139	161	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B140	162	Beam	3.40507	Correa	N/A	11	Yes
NE+4.1053	B141	163	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B142	164	Beam	3.383	Correa	N/A	11	Yes
NE+4.1053	B143	165	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B144	166	Beam	4.3231	Correa	N/A	11	Yes

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Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+4.1053	B145	167	Beam	3.4118	Correa	N/A	11	Yes
NE+4.1053	B146	168	Beam	3.41893	Correa	N/A	11	Yes
NE+4.1053	B147	169	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B148	170	Beam	3.40593	Correa	N/A	11	Yes
NE+4.1053	B149	171	Beam	3.4057	Correa	N/A	11	Yes
NE+4.1053	B150	172	Beam	3.383	Correa	N/A	11	Yes
NE+4.1053	B151	173	Beam	3.0466	Correa	N/A	11	Yes
NE+4.1053	B152	174	Beam	4.328	Correa	N/A	11	Yes
NE+4.1053	B153	175	Beam	3.4069	Correa	N/A	11	Yes
NE+4.1053	B154	176	Beam	3.41807	Correa	N/A	11	Yes
NE+4.1053	B155	177	Beam	3.5	Correa	N/A	11	Yes
NE+4.1053	B25	29	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B29	35	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B157	41	Beam	4.62838	Correa	N/A	11	Yes
NE+4.1053	B161	49	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B168	103	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B173	109	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B178	115	Beam	5.56408	Correa	N/A	11	Yes
NE+4.1053	B183	121	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B188	375	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B192	1	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B196	23	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B201	97	Beam	5.56397	Correa	N/A	11	Yes
NE+4.1053	B4	327	Beam	4.62825	Correa	N/A	11	Yes
NE+4.1053	B23	127	Beam	5.56397	Correa	N/A	11	Yes
NE+2.6365	B14	72	Beam	3.4057	V25X25	N/A	11	No
NE+2.6365	B15	73	Beam	3.383	V25X25	N/A	11	No
NE+2.6365	B16	74	Beam	3.0466	V25X25	N/A	11	No
NE+2.6365	B17	75	Beam	4.3329	V25X25	N/A	11	No
NE+2.6365	B18	76	Beam	3.402	V25X25	N/A	11	No
NE+2.6365	B19	77	Beam	3.4172	V25X25	N/A	11	No
NE+2.6365	B2	78	Beam	3.5	V25X25	N/A	11	No
NE+2.6365	B8	71	Beam	3.4068	V25X25	N/A	11	No
NE+2.6365	B44	79	Beam	3.4068	V25X25	N/A	11	No
NE+2.6365	B45	80	Beam	3.4057	V25X25	N/A	11	No
NE+2.6365	B46	81	Beam	3.383	V25X25	N/A	11	No
NE+2.6365	B50	82	Beam	3.0466	V25X25	N/A	11	No
NE+2.6365	B51	83	Beam	4.3329	V25X25	N/A	11	No
NE+2.6365	B61	84	Beam	3.402	V25X25	N/A	11	No
NE+2.6365	B62	85	Beam	3.4172	V25X25	N/A	11	No
NE+2.6365	B63	86	Beam	3.5	V25X25	N/A	11	No
NE+2.6365	B5	181	Beam	5.3666	V25X25	N/A	11	No
NE+2.6365	B7	179	Beam	5.3666	V25X25	N/A	11	No
NE+2.6365	B13	8	Beam	4.389	V25X25	N/A	11	No
NE+2.6365	B21	180	Beam	4.389	V25X25	N/A	11	No

Table 3.4 - Frame Assignments - Releases (Part 1 of 2)

Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+4.1053	C24	9	Column	None	None	None	None	None	None			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+4.105 3	C25	10	Column	None	None	None	None	None	None			
NE+4.105 3	C26	11	Column	None	None	None	None	None	None			
NE+4.105 3	C28	12	Column	None	None	None	None	None	None			
NE+4.105 3	C31	13	Column	None	None	None	None	None	None			
NE+4.105 3	C34	30	Column	None	None	None	None	None	None			
NE+4.105 3	C37	68	Column	None	None	None	None	None	None			
NE+4.105 3	C40	69	Column	None	None	None	None	None	None			
NE+4.105 3	C43	22	Column	None	None	None	None	None	None			
NE+2.636 5	C27	43	Column	None	None	None	None	None	None			
NE+2.636 5	C30	50	Column	None	None	None	None	None	None			
NE+2.636 5	C33	53	Column	None	None	None	None	None	None			
NE+2.636 5	C36	56	Column	None	None	None	None	None	None			
NE+2.636 5	C39	59	Column	None	None	None	None	None	None			
NE+2.636 5	C42	62	Column	None	None	None	None	None	None			
NE+2.636 5	C45	65	Column	None	None	None	None	None	None			
NE+2.636 5	C3	2	Column	None	None	None	None	None	None			
NE+2.636 5	C6	5	Column	None	None	None	None	None	None			
NE+2.636 5	C1	45	Column	None	None	None	None	None	None			
NE+2.636 5	C2	52	Column	None	None	None	None	None	None			
NE+2.636 5	C17	55	Column	None	None	None	None	None	None			
NE+2.636 5	C18	58	Column	None	None	None	None	None	None			
NE+2.636 5	C19	61	Column	None	None	None	None	None	None			
NE+2.636 5	C20	64	Column	None	None	None	None	None	None			
NE+2.636 5	C21	67	Column	None	None	None	None	None	None			
NE+2.636 5	C22	4	Column	None	None	None	None	None	None			
NE+2.636 5	C23	6	Column	None	None	None	None	None	None			
NE+2.636 5	C24	44	Column	None	None	None	None	None	None			
NE+2.636 5	C25	51	Column	None	None	None	None	None	None			
NE+2.636 5	C26	54	Column	None	None	None	None	None	None			
NE+2.636 5	C28	57	Column	None	None	None	None	None	None			
NE+2.636 5	C31	63	Column	None	None	None	None	None	None			
NE+2.636 5	C34	26	Column	None	None	None	None	None	None			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+2.636 5	C37	3	Column	None	None	None	None	None	None			
NE+2.636 5	C40	7	Column	None	None	None	None	None	None			
NE+2.636 5	C43	38	Column	None	None	None	None	None	None			
NE+4.105 3	B73	16	Beam	None	None	None	None	None	None			
NE+4.105 3	B74	17	Beam	None	None	None	None	None	None			
NE+4.105 3	B75	18	Beam	None	None	None	None	None	None			
NE+4.105 3	B76	19	Beam	None	None	None	None	None	None			
NE+4.105 3	B77	20	Beam	None	None	None	None	None	None			
NE+4.105 3	B78	150	Beam	None	None	None	None	None	None			
NE+4.105 3	B5	430	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B7	149	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B10	151	Beam	None	None	None	None	None	None			
NE+4.105 3	B11	152	Beam	None	None	None	None	None	None			
NE+4.105 3	B9	148	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B33	429	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B340	337	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B341	338	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B342	339	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B343	340	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B344	341	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B345	342	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B346	343	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B347	344	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B348	345	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B349	346	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B350	347	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B351	348	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B352	349	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B353	350	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B354	351	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B355	352	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B356	353	Beam	None	None	None	End I	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+4.105 3	B357	354	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B358	355	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B359	356	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B360	357	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B361	358	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B362	359	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B363	360	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B364	361	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B366	363	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B367	364	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B368	365	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B369	366	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B370	367	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B371	368	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B431	428	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B116	133	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B117	134	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B118	135	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B119	136	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B120	137	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B121	138	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B122	139	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B123	140	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B124	141	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B125	142	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B126	143	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B127	144	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B128	145	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B129	146	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B130	147	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B131	153	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B132	154	Beam	None	None	None	End I	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+4.105 3	B133	155	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B134	156	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B135	157	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B136	158	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B137	159	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B138	160	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B139	161	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B140	162	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B141	163	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B142	164	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B143	165	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B144	166	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B145	167	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B146	168	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B147	169	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B148	170	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B149	171	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B150	172	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B151	173	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B152	174	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B153	175	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B154	176	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B155	177	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B25	29	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B29	35	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B157	41	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B161	49	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B168	103	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B173	109	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B178	115	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B183	121	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B188	375	Beam	None	None	None	End I	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+4.105 3	B192	1	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B196	23	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B201	97	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B4	327	Beam	None	None	None	End I	Both	Both			
NE+4.105 3	B23	127	Beam	None	None	None	End I	Both	Both			
NE+2.636 5	B14	72	Beam	None	None	None	None	None	None			
NE+2.636 5	B15	73	Beam	None	None	None	None	None	None			
NE+2.636 5	B16	74	Beam	None	None	None	None	None	None			
NE+2.636 5	B17	75	Beam	None	None	None	None	None	None			
NE+2.636 5	B18	76	Beam	None	None	None	None	None	None			
NE+2.636 5	B19	77	Beam	None	None	None	None	None	None			
NE+2.636 5	B2	78	Beam	None	None	None	None	None	None			
NE+2.636 5	B8	71	Beam	None	None	None	None	None	None			
NE+2.636 5	B44	79	Beam	None	None	None	None	None	None			
NE+2.636 5	B45	80	Beam	None	None	None	None	None	None			
NE+2.636 5	B46	81	Beam	None	None	None	None	None	None			
NE+2.636 5	B50	82	Beam	None	None	None	None	None	None			
NE+2.636 5	B51	83	Beam	None	None	None	None	None	None			
NE+2.636 5	B61	84	Beam	None	None	None	None	None	None			
NE+2.636 5	B62	85	Beam	None	None	None	None	None	None			
NE+2.636 5	B63	86	Beam	None	None	None	None	None	None			
NE+2.636 5	B5	181	Beam	None	None	None	None	None	None			
NE+2.636 5	B7	179	Beam	None	None	None	None	None	None			
NE+2.636 5	B13	8	Beam	None	None	None	None	None	None			
NE+2.636 5	B21	180	Beam	None	None	None	None	None	None			

Table 3.4 - Frame Assignments - Releases (Part 2 of 2)

Story	Label	Unique Name	Partial T I-end tonf-m/rad	Partial M2 I-end tonf-m/rad	Partial M3 I-end tonf-m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf-m/rad	Partial M2 J-end tonf-m/rad	Partial M3 J-end tonf-m/rad
NE+4.105 3	C24	9									
NE+4.105 3	C25	10									
NE+4.105 3	C26	11									

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CONSORCIO

CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+4.105 3	C28	12									
NE+4.105 3	C31	13									
NE+4.105 3	C34	30									
NE+4.105 3	C37	68									
NE+4.105 3	C40	69									
NE+4.105 3	C43	22									
NE+2.636 5	C27	43									
NE+2.636 5	C30	50									
NE+2.636 5	C33	53									
NE+2.636 5	C36	56									
NE+2.636 5	C39	59									
NE+2.636 5	C42	62									
NE+2.636 5	C45	65									
NE+2.636 5	C3	2									
NE+2.636 5	C6	5									
NE+2.636 5	C1	45									
NE+2.636 5	C2	52									
NE+2.636 5	C17	55									
NE+2.636 5	C18	58									
NE+2.636 5	C19	61									
NE+2.636 5	C20	64									
NE+2.636 5	C21	67									
NE+2.636 5	C22	4									
NE+2.636 5	C23	6									
NE+2.636 5	C24	44									
NE+2.636 5	C25	51									
NE+2.636 5	C26	54									
NE+2.636 5	C28	57									
NE+2.636 5	C31	63									
NE+2.636 5	C34	26									
NE+2.636 5	C37	3									

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Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+2.636 5	C40	7									
NE+2.636 5	C43	38									
NE+4.105 3	B73	16									
NE+4.105 3	B74	17									
NE+4.105 3	B75	18									
NE+4.105 3	B76	19									
NE+4.105 3	B77	20									
NE+4.105 3	B78	150									
NE+4.105 3	B5	430									
NE+4.105 3	B7	149									
NE+4.105 3	B10	151									
NE+4.105 3	B11	152									
NE+4.105 3	B9	148									
NE+4.105 3	B33	429									
NE+4.105 3	B340	337									
NE+4.105 3	B341	338									
NE+4.105 3	B342	339									
NE+4.105 3	B343	340									
NE+4.105 3	B344	341									
NE+4.105 3	B345	342									
NE+4.105 3	B346	343									
NE+4.105 3	B347	344									
NE+4.105 3	B348	345									
NE+4.105 3	B349	346									
NE+4.105 3	B350	347									
NE+4.105 3	B351	348									
NE+4.105 3	B352	349									
NE+4.105 3	B353	350									
NE+4.105 3	B354	351									
NE+4.105 3	B355	352									
NE+4.105 3	B356	353									

Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+4.105 3	B357	354									
NE+4.105 3	B358	355									
NE+4.105 3	B359	356									
NE+4.105 3	B360	357									
NE+4.105 3	B361	358									
NE+4.105 3	B362	359									
NE+4.105 3	B363	360									
NE+4.105 3	B364	361									
NE+4.105 3	B366	363									
NE+4.105 3	B367	364									
NE+4.105 3	B368	365									
NE+4.105 3	B369	366									
NE+4.105 3	B370	367									
NE+4.105 3	B371	368									
NE+4.105 3	B431	428									
NE+4.105 3	B116	133									
NE+4.105 3	B117	134									
NE+4.105 3	B118	135									
NE+4.105 3	B119	136									
NE+4.105 3	B120	137									
NE+4.105 3	B121	138									
NE+4.105 3	B122	139									
NE+4.105 3	B123	140									
NE+4.105 3	B124	141									
NE+4.105 3	B125	142									
NE+4.105 3	B126	143									
NE+4.105 3	B127	144									
NE+4.105 3	B128	145									
NE+4.105 3	B129	146									
NE+4.105 3	B130	147									
NE+4.105 3	B131	153									

Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+4.105 3	B132	154									
NE+4.105 3	B133	155									
NE+4.105 3	B134	156									
NE+4.105 3	B135	157									
NE+4.105 3	B136	158									
NE+4.105 3	B137	159									
NE+4.105 3	B138	160									
NE+4.105 3	B139	161									
NE+4.105 3	B140	162									
NE+4.105 3	B141	163									
NE+4.105 3	B142	164									
NE+4.105 3	B143	165									
NE+4.105 3	B144	166									
NE+4.105 3	B145	167									
NE+4.105 3	B146	168									
NE+4.105 3	B147	169									
NE+4.105 3	B148	170									
NE+4.105 3	B149	171									
NE+4.105 3	B150	172									
NE+4.105 3	B151	173									
NE+4.105 3	B152	174									
NE+4.105 3	B153	175									
NE+4.105 3	B154	176									
NE+4.105 3	B155	177									
NE+4.105 3	B25	29									
NE+4.105 3	B29	35									
NE+4.105 3	B157	41									
NE+4.105 3	B161	49									
NE+4.105 3	B168	103									
NE+4.105 3	B173	109									
NE+4.105 3	B178	115									

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Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+4.105 3	B183	121									
NE+4.105 3	B188	375									
NE+4.105 3	B192	1									
NE+4.105 3	B196	23									
NE+4.105 3	B201	97									
NE+4.105 3	B4	327									
NE+4.105 3	B23	127									
NE+2.636 5	B14	72									
NE+2.636 5	B15	73									
NE+2.636 5	B16	74									
NE+2.636 5	B17	75									
NE+2.636 5	B18	76									
NE+2.636 5	B19	77									
NE+2.636 5	B2	78									
NE+2.636 5	B8	71									
NE+2.636 5	B44	79									
NE+2.636 5	B45	80									
NE+2.636 5	B46	81									
NE+2.636 5	B50	82									
NE+2.636 5	B51	83									
NE+2.636 5	B61	84									
NE+2.636 5	B62	85									
NE+2.636 5	B63	86									
NE+2.636 5	B5	181									
NE+2.636 5	B7	179									
NE+2.636 5	B13	8									
NE+2.636 5	B21	180									

3.3 Shell Assignments

Table 3.5 - Shell Assignments - Summary

Story	Label	Unique Name	Section
NE+4.1053	F1	16	CUB

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Story	Label	Unique Name	Section
NE+4.1053	F7	12	CUB
NE+4.1053	F9	14	CUB
NE+4.1053	F8	11	CUB
NE+4.1053	F10	1	CUB
NE+4.1053	F11	3	CUB
NE+4.1053	F4	4	CUB
NE+4.1053	F6	5	CUB
NE+4.1053	F12	6	CUB
NE+4.1053	F13	7	CUB
NE+4.1053	F18	15	CUB
NE+4.1053	F16	8	CUB
NE+4.1053	F3	2	CUB
NE+4.1053	F5	9	CUB
NE+4.1053	F14	10	CUB
NE+4.1053	F15	13	CUB

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	Auto Load
PP	Dead	1	
CA	Dead	0	
CV	Live	0	
W	Wind	0	None

4.2 Applied Loads

4.2.1 Line Loads

Table 4.2 - Frame Loads - Distributed

Story	Label	Unique Name	Design Type	Load Pattern	Load Type	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start m	Absolute Distance End m	Force at Start tonf/m	Force at End tonf/m
NE+2.6365	B5	181	Beam	CA	Force	Gravity	0	1	0	5.3666	0.353	0
NE+2.6365	B7	179	Beam	CA	Force	Gravity	0	1	0	5.3666	0.353	0
NE+2.6365	B13	8	Beam	CA	Force	Gravity	0	1	0	4.389	0	0.353
NE+2.6365	B21	180	Beam	CA	Force	Gravity	0	1	0	4.389	0	0.353

4.2.2 Area Loads

Table 4.3 - Shell Loads - Uniform

Story	Label	Unique Name	Load Pattern	Direction	Load tonf/m ²
NE+4.1053	F1	16	CA	Gravity	0.17
NE+4.1053	F7	12	CA	Gravity	0.17
NE+4.1053	F9	14	CA	Gravity	0.17
NE+4.1053	F8	11	CA	Gravity	0.17
NE+4.1053	F10	1	CA	Gravity	0.17
NE+4.1053	F11	3	CA	Gravity	0.17
NE+4.1053	F4	4	CA	Gravity	0.17
NE+4.1053	F6	5	CA	Gravity	0.17
NE+4.1053	F12	6	CA	Gravity	0.17
NE+4.1053	F13	7	CA	Gravity	0.17
NE+4.1053	F18	15	CA	Gravity	0.17
NE+4.1053	F16	8	CA	Gravity	0.17
NE+4.1053	F3	2	CA	Gravity	0.17
NE+4.1053	F5	9	CA	Gravity	0.17
NE+4.1053	F14	10	CA	Gravity	0.17
NE+4.1053	F15	13	CA	Gravity	0.17
NE+4.1053	F1	16	CV	Gravity	0.05
NE+4.1053	F7	12	CV	Gravity	0.05
NE+4.1053	F9	14	CV	Gravity	0.05
NE+4.1053	F8	11	CV	Gravity	0.05

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Story	Label	Unique Name	Load Pattern	Direction	Load tonf/m²
NE+4.1053	F10	1	CV	Gravity	0.05
NE+4.1053	F11	3	CV	Gravity	0.05
NE+4.1053	F4	4	CV	Gravity	0.05
NE+4.1053	F6	5	CV	Gravity	0.05
NE+4.1053	F12	6	CV	Gravity	0.05
NE+4.1053	F13	7	CV	Gravity	0.05
NE+4.1053	F18	15	CV	Gravity	0.05
NE+4.1053	F16	8	CV	Gravity	0.05
NE+4.1053	F3	2	CV	Gravity	0.05
NE+4.1053	F5	9	CV	Gravity	0.05
NE+4.1053	F14	10	CV	Gravity	0.05
NE+4.1053	F15	13	CV	Gravity	0.05

4.3 Functions

4.3.1 Response Spectrum Functions

Table 4.4 - Response Spectrum Function - User

Name	Period sec	Acceleration	Damping %
ESPDIS	0	0.5062	5
ESPDIS	0.047	0.5062	
ESPDIS	0.095	0.5062	
ESPDIS	0.142	0.5062	
ESPDIS	0.19	0.5062	
ESPDIS	0.237	0.5062	
ESPDIS	0.284	0.5062	
ESPDIS	0.332	0.5062	
ESPDIS	0.379	0.5062	
ESPDIS	0.427	0.5062	
ESPDIS	0.474	0.5062	
ESPDIS	0.522	0.5062	
ESPDIS	0.569	0.5062	
ESPDIS	0.616	0.5062	
ESPDIS	0.664	0.5062	
ESPDIS	0.711	0.5062	
ESPDIS	0.759	0.5062	
ESPDIS	0.806	0.5062	
ESPDIS	0.853	0.5062	
ESPDIS	0.939	0.4602	
ESPDIS	1.024	0.4218	
ESPDIS	1.11	0.3894	
ESPDIS	1.195	0.3616	
ESPDIS	1.28	0.3374	
ESPDIS	1.366	0.3163	
ESPDIS	1.451	0.2977	
ESPDIS	1.536	0.2812	
ESPDIS	1.622	0.2664	
ESPDIS	1.707	0.2531	
ESPDIS	1.793	0.241	
ESPDIS	1.878	0.2301	
ESPDIS	1.963	0.22	
ESPDIS	2.049	0.2109	

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Name	Period sec	Acceleration	Damping %
ESPDIS	2.134	0.2024	
ESPDIS	2.219	0.1947	
ESPDIS	2.305	0.1874	
ESPDIS	2.39	0.1807	
ESPDIS	2.476	0.1745	
ESPDIS	2.561	0.1687	
ESPDIS	2.646	0.1633	
ESPDIS	2.732	0.1581	
ESPDIS	2.817	0.1534	
ESPDIS	2.902	0.1488	
ESPDIS	2.988	0.1446	
ESPDIS	3.073	0.1406	
ESPDIS	3.159	0.1368	
ESPDIS	3.244	0.1332	
ESPDIS	3.329	0.1298	
ESPDIS	3.415	0.1265	
ESPDIS	3.5	0.1234	
ESPDIS	7.375	0.0278	
ESPDIS	11.25	0.0119	
ESPDIS	15.125	0.006609	
ESPDIS	19	0.004188	
ESPDIS	22.875	0.00289	
ESPDIS	26.75	0.002113	
ESPDIS	30.625	0.001612	
ESPDIS	34.5	0.00127	
ESPDIS	38.375	0.001027	
ESPDIS	42.25	0.000847	
ESPDIS	46.125	0.000711	
ESPDIS	50	0.000605	
ESPDAÑO	0	0.09	2
ESPDAÑO	0.028	0.12	
ESPDAÑO	0.056	0.15	
ESPDAÑO	0.083	0.18	
ESPDAÑO	0.111	0.21	
ESPDAÑO	0.139	0.24	
ESPDAÑO	0.167	0.27	
ESPDAÑO	0.196	0.27	
ESPDAÑO	0.225	0.27	
ESPDAÑO	0.254	0.27	
ESPDAÑO	0.283	0.27	
ESPDAÑO	0.312	0.27	
ESPDAÑO	0.341	0.27	
ESPDAÑO	0.37	0.27	
ESPDAÑO	0.399	0.27	
ESPDAÑO	0.428	0.27	
ESPDAÑO	0.457	0.27	
ESPDAÑO	0.486	0.27	
ESPDAÑO	0.515	0.27	
ESPDAÑO	0.544	0.27	
ESPDAÑO	0.573	0.27	
ESPDAÑO	0.601	0.27	
ESPDAÑO	0.63	0.27	
ESPDAÑO	0.659	0.27	

Name	Period sec	Acceleration	Damping %
ESPDAÑO	0.688	0.27	
ESPDAÑO	0.717	0.27	
ESPDAÑO	0.746	0.27	
ESPDAÑO	0.775	0.27	
ESPDAÑO	0.804	0.27	
ESPDAÑO	0.833	0.27	
ESPDAÑO	0.967	0.2328	
ESPDAÑO	1.1	0.2045	
ESPDAÑO	1.233	0.1824	
ESPDAÑO	1.367	0.1646	
ESPDAÑO	1.5	0.15	
ESPDAÑO	1.633	0.1378	
ESPDAÑO	1.767	0.1274	
ESPDAÑO	1.9	0.1184	
ESPDAÑO	2.033	0.1107	
ESPDAÑO	2.167	0.1038	
ESPDAÑO	2.3	0.0978	
ESPDAÑO	2.433	0.0925	
ESPDAÑO	2.567	0.0877	
ESPDAÑO	2.7	0.0833	
ESPDAÑO	2.833	0.0794	
ESPDAÑO	2.967	0.0758	
ESPDAÑO	3.1	0.0726	
ESPDAÑO	3.233	0.0696	
ESPDAÑO	3.367	0.0668	
ESPDAÑO	3.5	0.0643	
ESPDAÑO	7	0.0161	
ESPDAÑO	8	0.0123	
ESPDAÑO	9	0.009722	
ESPDAÑO	10	0.007875	
ESPDAÑO	12	0.005469	
ESPDAÑO	15	0.0035	
ESPDAÑO	30	0.000875	
ESPDAÑO	35	0.000643	
ESPDAÑO	40	0.000492	
ESPDAÑO	50	0.000315	

4.4 Load Cases

Table 4.5 - Load Cases - Summary

Name	Type
PP	Linear Static
CA	Linear Static
CV	Linear Static
W	Linear Static
SX	Response Spectrum
SY	Response Spectrum
SDX	Response Spectrum
SDY	Response Spectrum

Table 4.6 - Load Cases - Static - Linear

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Name	Stiffness From	Mass Source	Load Type	Load Name	Scale Factor	Design Load Type
PP	Preset P-delta	MsSrc1	Load Pattern	PP	1	Program Determined
CA	Preset P-delta	MsSrc1	Load Pattern	CA	1	Program Determined
CV	Preset P-delta	MsSrc1	Load Pattern	CV	1	Program Determined
W	Preset P-delta	MsSrc1	Load Pattern	W	1	Program Determined

Table 4.7 - Load Cases - Modal - Eigen (Part 1 of 2)

Name	Stiffness From	Mass Source	Load Type	Load Name	Target Participation %	Static Correction?	Max Number Modes	Min Number Modes	Frequency Shift cyc/sec	Cutoff Frequency cyc/sec
Modal	Preset P-delta	MsSrc1	Acceleration	UX	99	No	24	18	0	0
Modal			Acceleration	UY	99	No				

Table 4.7 - Load Cases - Modal - Eigen (Part 2 of 2)

Name	Convergence Tolerance	Auto Shift?	Design Load Type
Modal	1E-07	Yes	Program Determined
Modal		No	

Table 4.8 - Load Cases - Response Spectrum (Part 1 of 2)

Name	Mass Source	Load Type	Load Name	Function	Scale Factor	Coordinate System	Angle deg	Modal Case	Modal Combination Method	Include Rigid Response
SX	Previous (MsSrc1)	Acceleration	U1	ESPDIS	9.81	Global	0	Modal	CQC	No
SY	Previous (MsSrc1)	Acceleration	U2	ESPDIS	9.81	Global	0	Modal	CQC	No
SDX	Previous (MsSrc1)	Acceleration	U1	ESPDANO	9.81	Global	0	Modal	CQC	No
SDY	Previous (MsSrc1)	Acceleration	U2	ESPDANO	9.81	Global	0	Modal	CQC	No

Table 4.8 - Load Cases - Response Spectrum (Part 2 of 2)

Name	Directional Combination Method	Design Load Type	Eccentricity Ratio	Eccentricity Overrides	Constant Damping
SX	SRSS	Program Determined	0	No	0.05
SY	SRSS	Program Determined	0	No	0.05
SDX	SRSS	Program Determined	0	No	0.02
SDY	SRSS	Program Determined	0	No	0.02

Table 4.9 - P-delta Options

Automation Method

None

4.5 Load Combinations

Table 4.10 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
CM	PP	1	Linear Add	No
CM	CA	1		No
DER1	CM	1.2	Linear Add	No
DER1	CV	1.6		No

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Name	Load Case/Combo	Scale Factor	Type	Auto
DER2	CM	1.2	Linear Add	No
DER2	CV	1		No
DER2	SX	1		No
DER3	CM	1.2	Linear Add	No
DER3	CV	1		No
DER3	SX	-1		No
DER4	CM	1.2	Linear Add	No
DER4	CV	1		No
DER4	SY	1		No
DER5	CM	1.2	Linear Add	No
DER5	CV	1		No
DER5	SY	-1		No
DER6	CM	0.9	Linear Add	No
DER6	SX	1		No
DER7	CM	0.9	Linear Add	No
DER7	SX	-1		No
DER8	CM	0.9	Linear Add	No
DER8	SY	1		No
DER9	CM	0.9	Linear Add	No
DER9	SY	-1		No
COMB1	CM	1.2	Linear Add	No
COMB1	CV	1.6		No
COMB2	CM	1.2	Linear Add	No
COMB2	CV	1		No
COMB2	SX	0.25		No
COMB2	SY	0.08		No
CIM1	CM	1	Linear Add	No
CIM1	CV	1		No
CIM2	CM	1	Linear Add	No
CIM2	SX	0.18		No
CIM3	CM	1	Linear Add	No
CIM3	SY	0.18		No
CIM4	CM	1	Linear Add	No
CIM4	CV	0.75		No
CIM4	SX	0.13		No
CIM5	CM	1	Linear Add	No
CIM5	CV	0.75		No
CIM5	SY	0.13		No
CIM6	CM	0.6	Linear Add	No
CIM6	SX	0.18		No
CIM7	CM	0.6	Linear Add	No
CIM7	SY	0.18		No
ENVCIM	CIM1	1	Envelope	No
ENVCIM	CIM2	1		No
ENVCIM	CIM3	1		No
ENVCIM	CIM4	1		No
ENVCIM	CIM5	1		No
ENVCIM	CIM6	1		No
ENVCIM	CIM7	1		No
DERUD1	CM	1.2	Linear Add	No
DERUD1	CV	1.6		No
DERUD2	CM	1.2	Linear Add	No
DERUD2	CV	1		No

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Name	Load Case/Combo	Scale Factor	Type	Auto
DERUD2	SDX	1		No
DERUD3	CM	1.2	Linear Add	No
DERUD3	CV	1		No
DERUD3	SDX	-1		No
DERUD4	CM	1.2	Linear Add	No
DERUD4	CV	1		No
DERUD4	SDY	1		No
DERUD5	CM	1.2	Linear Add	No
DERUD5	CV	1		No
DERUD5	SDY	-1		No
DERUD6	CM	0.9	Linear Add	No
DERUD6	SDX	1		No
DERUD7	CM	0.9	Linear Add	No
DERUD7	SDX	-1		No
DERUD8	CM	0.9	Linear Add	No
DERUD8	SDY	1		No
DERUD9	CM	0.9	Linear Add	No
DERUD9	SDY	-1		No
COMBC1	CM	1.2	Linear Add	No
COMBC1	CV	1.6		No
COMBC2	CM	1.35	Linear Add	No
COMBC2	CV	1		No
COMBC2	SX	0.75		No
COMBC2	SY	0.23		No
COMBC4	CM	1.35	Linear Add	No
COMBC4	CV	1		No
COMBC4	SX	0.75		No
COMBC4	SY	-0.23		No
COMBC6	CM	1.35	Linear Add	No
COMBC6	CV	1		No
COMBC6	SX	-0.75		No
COMBC6	SY	0.23		No
COMBC8	CM	1.35	Linear Add	No
COMBC8	CV	1		No
COMBC8	SX	-0.75		No
COMBC8	SY	-0.23		No
COMBC10	CM	1.35	Linear Add	No
COMBC10	CV	1		No
COMBC10	SX	0.23		No
COMBC10	SY	0.75		No
COMBC12	CM	1.35	Linear Add	No
COMBC12	CV	1		No
COMBC12	SX	0.23		No
COMBC12	SY	-0.75		No
COMBC14	CM	1.35	Linear Add	No
COMBC14	CV	1		No
COMBC14	SX	-0.23		No
COMBC14	SY	0.75		No
COMBC16	CM	1.35	Linear Add	No
COMBC16	CV	1		No
COMBC16	SX	-0.23		No
COMBC16	SY	-0.75		No
COMBC3	CM	1.05	Linear Add	No

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Name	Load Case/Combo	Scale Factor	Type	Auto
COMBC3	CV	1		No
COMBC3	SX	0.75		No
COMBC3	SY	0.23		No
COMBC5	CM	1.05	Linear Add	No
COMBC5	CV	1		No
COMBC5	SX	0.75		No
COMBC5	SY	-0.23		No
COMBC7	CM	1.05	Linear Add	No
COMBC7	CV	1		No
COMBC7	SX	-0.75		No
COMBC7	SY	0.23		No
COMBC9	CM	1.05	Linear Add	No
COMBC9	CV	1		No
COMBC9	SX	-0.75		No
COMBC9	SY	-0.23		No
COMBC11	CM	1.05	Linear Add	No
COMBC11	CV	1		No
COMBC11	SX	0.23		No
COMBC11	SY	0.75		No
COMBC13	CM	1.05	Linear Add	No
COMBC13	CV	1		No
COMBC13	SX	0.23		No
COMBC13	SY	-0.75		No
COMBC15	CM	1.05	Linear Add	No
COMBC15	CV	1		No
COMBC15	SX	-0.23		No
COMBC15	SY	0.75		No
COMBC17	CM	1.05	Linear Add	No
COMBC17	CV	1		No
COMBC17	SX	-0.23		No
COMBC17	SY	-0.75		No
COMBC18	CM	1.05	Linear Add	No
COMBC18	SX	0.75		No
COMBC18	SY	0.23		No
COMBC20	CM	1.05	Linear Add	No
COMBC20	SX	0.75		No
COMBC20	SY	-0.23		No
COMBC22	CM	1.05	Linear Add	No
COMBC22	SX	-0.75		No
COMBC22	SY	0.23		No
COMBC24	CM	1.05	Linear Add	No
COMBC24	SX	-0.75		No
COMBC24	SY	-0.23		No
COMBC26	CM	1.05	Linear Add	No
COMBC26	SX	0.23		No
COMBC26	SY	0.75		No
COMBC28	CM	1.05	Linear Add	No
COMBC28	SX	0.23		No
COMBC28	SY	-0.75		No
COMBC30	CM	1.05	Linear Add	No
COMBC30	SX	0.23		No
COMBC30	SY	0.75		No
COMBC32	CM	1.05	Linear Add	No

Name	Load Case/Combo	Scale Factor	Type	Auto
COMBC32	SX	-0.23		No
COMBC32	SY	-0.75		No
COMBC19	CM	0.75	Linear Add	No
COMBC19	SX	0.75		No
COMBC19	SY	0.23		No
COMBC21	CM	0.75	Linear Add	No
COMBC21	SX	0.75		No
COMBC21	SY	-0.23		No
COMBC23	CM	0.75	Linear Add	No
COMBC23	SX	-0.75		No
COMBC23	SY	0.23		No
COMBC25	CM	0.75	Linear Add	No
COMBC25	SX	-0.75		No
COMBC25	SY	-0.23		No
COMBC27	CM	0.75	Linear Add	No
COMBC27	SX	0.23		No
COMBC27	SY	0.75		No
COMBC29	CM	0.75	Linear Add	No
COMBC29	SX	0.23		No
COMBC29	SY	-0.75		No
COMBC31	CM	0.75	Linear Add	No
COMBC31	SX	-0.23		No
COMBC31	SY	0.75		No
COMBC33	CM	0.75	Linear Add	No
COMBC33	SX	-0.23		No
COMBC33	SY	-0.75		No
ENVC	COMBC1	1	Envelope	No
ENVC	COMBC2	1		No
ENVC	COMBC3	1		No
ENVC	COMBC4	1		No
ENVC	COMBC5	1		No
ENVC	COMBC6	1		No
ENVC	COMBC7	1		No
ENVC	COMBC8	1		No
ENVC	COMBC9	1		No
ENVC	COMBC10	1		No
ENVC	COMBC11	1		No
ENVC	COMBC12	1		No
ENVC	COMBC13	1		No
ENVC	COMBC14	1		No
ENVC	COMBC15	1		No
ENVC	COMBC16	1		No
ENVC	COMBC17	1		No
ENVC	COMBC18	1		No
ENVC	COMBC19	1		No
ENVC	COMBC20	1		No
ENVC	COMBC21	1		No
ENVC	COMBC22	1		No
ENVC	COMBC23	1		No
ENVC	COMBC24	1		No
ENVC	COMBC25	1		No
ENVC	COMBC26	1		No
ENVC	COMBC27	1		No

Name	Load Case/Combo	Scale Factor	Type	Auto
ENVC	COMBC28	1		No
ENVC	COMBC29	1		No
ENVC	COMBC30	1		No
ENVC	COMBC31	1		No
ENVC	COMBC32	1		No
ENVC	COMBC33	1		No
COMBV1	CM	1.2	Linear Add	No
COMBV1	CV	1.6		No
COMBV2	CM	1.2	Linear Add	No
COMBV2	CV	1		No
COMBV2	SX	0.5		No
COMBV2	SY	0.15		No
COMBV3	CM	1.2	Linear Add	No
COMBV3	CV	1		No
COMBV3	SX	0.5		No
COMBV3	SY	-0.15		No
COMBV4	CM	1.2	Linear Add	No
COMBV4	CV	1		No
COMBV4	SX	-0.5		No
COMBV4	SY	0.15		No
COMBV5	CM	1.2	Linear Add	No
COMBV5	CV	1		No
COMBV5	SX	-0.5		No
COMBV5	SY	-0.15		No
COMBV6	CM	1.2	Linear Add	No
COMBV6	CV	1		No
COMBV6	SX	0.15		No
COMBV6	SY	0.5		No
COMBV7	CM	1.2	Linear Add	No
COMBV7	CV	1		No
COMBV7	SX	0.15		No
COMBV7	SY	-0.5		No
COMBV8	CM	1.2	Linear Add	No
COMBV8	CV	1		No
COMBV8	SX	-0.15		No
COMBV8	SY	0.5		No
COMBV9	CM	1.2	Linear Add	No
COMBV9	CV	1		No
COMBV9	SX	-0.15		No
COMBV9	SY	-0.5		No
COMBV10	CM	0.9	Linear Add	No
COMBV10	SX	0.5		No
COMBV10	SY	0.15		No
COMBV11	CM	0.9	Linear Add	No
COMBV11	SX	0.5		No
COMBV11	SY	-0.15		No
COMBV12	CM	0.9	Linear Add	No
COMBV12	SX	-0.5		No
COMBV12	SY	0.15		No
COMBV13	CM	0.9	Linear Add	No
COMBV13	SX	-0.5		No
COMBV13	SY	-0.15		No
COMBV14	CM	0.9	Linear Add	No

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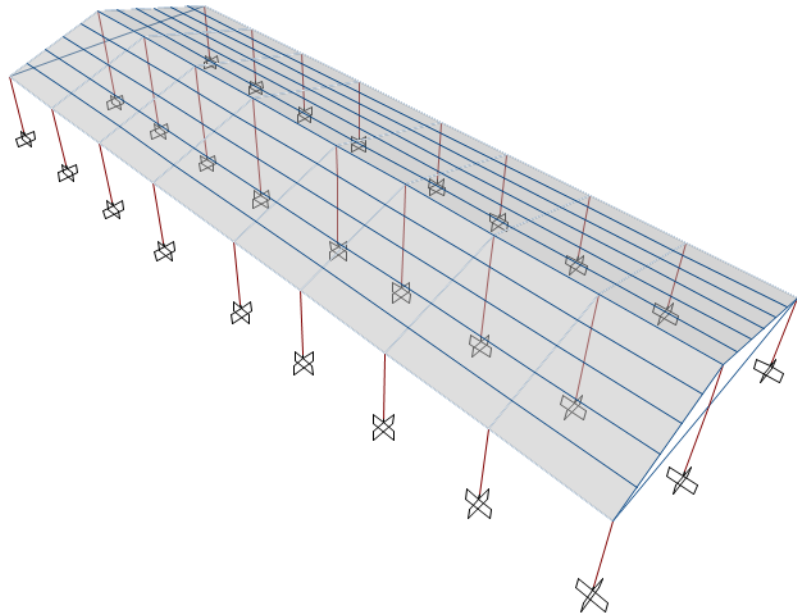
Name	Load Case/Combo	Scale Factor	Type	Auto
COMBV14	SX	0.15		No
COMBV14	SY	0.5		No
COMBV15	CM	0.9	Linear Add	No
COMBV15	SX	0.15		No
COMBV15	SY	-0.5		No
COMBV16	CM	0.9	Linear Add	No
COMBV16	SX	-0.15		No
COMBV16	SY	0.5		No
COMBV17	CM	0.9	Linear Add	No
COMBV17	SX	-0.15		No
COMBV17	SY	-0.5		No
ENVV	COMBV1	1	Envelope	No
ENVV	COMBV2	1		No
ENVV	COMBV3	1		No
ENVV	COMBV4	1		No
ENVV	COMBV5	1		No
ENVV	COMBV6	1		No
ENVV	COMBV7	1		No
ENVV	COMBV8	1		No
ENVV	COMBV9	1		No
ENVV	COMBV10	1		No
ENVV	COMBV11	1		No
ENVV	COMBV12	1		No
ENVV	COMBV13	1		No
ENVV	COMBV14	1		No
ENVV	COMBV15	1		No
ENVV	COMBV16	1		No
ENVV	COMBV17	1		No
COMB3	CM	1.2	Linear Add	No
COMB3	CV	1		No
COMB3	SX	0.25		No
COMB3	SY	-0.08		No
COMB4	CM	1.2	Linear Add	No
COMB4	CV	1		No
COMB4	SX	-0.25		No
COMB4	SY	0.08		No
COMB5	CM	1.2	Linear Add	No
COMB5	CV	1		No
COMB5	SX	-0.25		No
COMB5	SY	-0.08		No
COMB6	CM	1.2	Linear Add	No
COMB6	CV	1		No
COMB6	SX	0.08		No
COMB6	SY	0.25		No
COMB7	CM	1.2	Linear Add	No
COMB7	CV	1		No
COMB7	SX	0.08		No
COMB7	SY	-0.25		No
COMB8	CM	1.2	Linear Add	No
COMB8	CV	1		No
COMB8	SX	-0.08		No
COMB8	SY	0.25		No
COMB9	CM	1.2	Linear Add	No

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Name	Load Case/Combo	Scale Factor	Type	Auto
COMB9	CV	1		No
COMB9	SX	-0.08		No
COMB9	SY	-0.25		No
COMB10	CM	0.9	Linear Add	No
COMB10	SX	0.25		No
COMB10	SY	0.08		No
COMB11	CM	0.9	Linear Add	No
COMB11	SX	0.25		No
COMB11	SY	-0.08		No
COMB12	CM	0.9	Linear Add	No
COMB12	SX	-0.25		No
COMB12	SY	0.08		No
COMB13	CM	0.9	Linear Add	No
COMB13	SX	-0.25		No
COMB13	SY	-0.08		No
COMB14	CM	0.9	Linear Add	No
COMB14	SX	0.08		No
COMB14	SY	0.25		No
COMB15	CM	0.9	Linear Add	No
COMB15	SX	0.08		No
COMB15	SY	-0.25		No
COMB16	CM	0.9	Linear Add	No
COMB16	SX	-0.08		No
COMB16	SY	0.25		No
COMB17	CM	0.9	Linear Add	No
COMB17	SX	-0.08		No
COMB17	SY	-0.25		No
COMB18	CM	1.4	Linear Add	No
ENVDIS	COMB1	1	Envelope	No
ENVDIS	COMB2	1		No
ENVDIS	COMB3	1		No
ENVDIS	COMB4	1		No
ENVDIS	COMB5	1		No
ENVDIS	COMB6	1		No
ENVDIS	COMB7	1		No
ENVDIS	COMB8	1		No
ENVDIS	COMB9	1		No
ENVDIS	COMB10	1		No
ENVDIS	COMB11	1		No
ENVDIS	COMB12	1		No
ENVDIS	COMB13	1		No
ENVDIS	COMB14	1		No
ENVDIS	COMB15	1		No
ENVDIS	COMB16	1		No
ENVDIS	COMB17	1		No
ENVDIS	COMB18	1		No

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DATOS DE ENTRADA 2

716-HSJD

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1. Analysis Results

1.1 Modal Results

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1 Analysis Results

This chapter provides analysis results.

1.1 Modal Results

Table 1.1 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	0.226	4.431	27.8412	775.1304
Modal	2	0.189	5.277	33.1576	1099.4233
Modal	3	0.188	5.324	33.4543	1119.188
Modal	4	0.047	21.492	135.0359	18234.7073
Modal	5	0.043	23.325	146.5575	21479.1068
Modal	6	0.04	24.99	157.017	24654.3248
Modal	7	0.038	26.348	165.548	27406.1373
Modal	8	0.037	26.822	168.5284	28401.8351
Modal	9	0.036	28.135	176.7745	31249.2161
Modal	10	0.035	28.974	182.0462	33140.8122
Modal	11	0.034	29.608	186.0295	34606.9825
Modal	12	0.034	29.753	186.9416	34947.1431
Modal	13	0.033	29.942	188.1296	35392.7446
Modal	14	0.033	30.158	189.4913	35906.9516
Modal	15	0.033	30.722	193.0304	37260.7163
Modal	16	0.032	30.843	193.7915	37555.1539
Modal	17	0.032	30.983	194.6705	37896.603
Modal	18	0.032	31.355	197.0071	38811.7952
Modal	19	0.032	31.477	197.777	39115.7262
Modal	20	0.032	31.675	199.0228	39610.061
Modal	21	0.031	31.842	200.0665	40026.6144
Modal	22	0.031	32.234	202.5331	41019.6441
Modal	23	0.031	32.304	202.9714	41197.3818
Modal	24	0.03	33.475	210.3309	44239.0673

Table 1.2 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	0.226	0.9989	0	0	0.9989	0	0
Modal	2	0.189	0.0005	0.1832	0	0.9994	0.1832	0
Modal	3	0.188	0.0001	0.8122	0	0.9995	0.9954	0
Modal	4	0.047	0.0001	0	0	0.9996	0.9954	0
Modal	5	0.043	2.868E-05	0	0	0.9996	0.9954	0
Modal	6	0.04	1.051E-06	0	0	0.9996	0.9954	0
Modal	7	0.038	0	0	0	0.9996	0.9954	0
Modal	8	0.037	0	0	0	0.9996	0.9954	0
Modal	9	0.036	0	0	0	0.9996	0.9954	0
Modal	10	0.035	1.827E-06	6.351E-07	0	0.9996	0.9954	0
Modal	11	0.034	0	0	0	0.9996	0.9954	0
Modal	12	0.034	0	0	0	0.9996	0.9954	0
Modal	13	0.033	6.419E-07	0	0	0.9996	0.9954	0
Modal	14	0.033	1.601E-06	1.83E-06	0	0.9996	0.9954	0
Modal	15	0.033	7.699E-07	0	0	0.9996	0.9954	0
Modal	16	0.032	6.563E-06	2.21E-06	0	0.9996	0.9954	0
Modal	17	0.032	2.919E-06	8.018E-07	0	0.9996	0.9954	0

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Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	18	0.032	0	0	0	0.9996	0.9954	0
Modal	19	0.032	0	4.624E-06	0	0.9996	0.9954	0
Modal	20	0.032	5.871E-07	0	0	0.9996	0.9954	0
Modal	21	0.031	0	0	0	0.9996	0.9954	0
Modal	22	0.031	0	0.0046	0	0.9996	1	0
Modal	23	0.031	0	0	0	0.9996	1	0
Modal	24	0.03	4.711E-05	0	0	0.9996	1	0

Table 1.2 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0	0.1288	0.0007	0	0.1288	0.0007
Modal	2	0.0256	0.0001	0.8155	0.0256	0.1288	0.8161
Modal	3	0.134	1.314E-05	0.1832	0.1596	0.1288	0.9993
Modal	4	0	0.0004	2.856E-06	0.1596	0.1292	0.9993
Modal	5	0	0.0007	1.279E-06	0.1596	0.13	0.9993
Modal	6	0	0.0093	0	0.1596	0.1393	0.9993
Modal	7	0	0.0001	0	0.1596	0.1394	0.9993
Modal	8	0	0.0003	0	0.1596	0.1397	0.9993
Modal	9	8.176E-07	0.0099	0	0.1596	0.1496	0.9993
Modal	10	1.179E-05	0.0001	9.796E-06	0.1597	0.1497	0.9994
Modal	11	0	0	0	0.1597	0.1497	0.9994
Modal	12	1.408E-05	0	0	0.1597	0.1497	0.9994
Modal	13	8.181E-07	3.236E-05	0	0.1597	0.1497	0.9994
Modal	14	0.0001	0.0001	9.06E-06	0.1597	0.1498	0.9994
Modal	15	4.602E-06	4.159E-05	0	0.1597	0.1498	0.9994
Modal	16	0.0001	0.0004	1.485E-05	0.1598	0.1502	0.9994
Modal	17	0.0001	0.0002	1.601E-05	0.1599	0.1504	0.9994
Modal	18	3.432E-06	0	0	0.1599	0.1504	0.9994
Modal	19	0.0004	8.309E-07	0	0.1603	0.1504	0.9994
Modal	20	3.785E-05	4.609E-05	0	0.1603	0.1504	0.9994
Modal	21	1.963E-06	0.0004	0	0.1603	0.1508	0.9994
Modal	22	0.526	0	7.063E-07	0.6863	0.1508	0.9994
Modal	23	1.048E-06	0	0	0.6863	0.1508	0.9994
Modal	24	9.304E-06	0.0058	8.125E-06	0.6863	0.1567	0.9994

Table 1.3 - Modal Participation Factors

Case	Mode	Period sec	UX tonf-m	UY tonf-m	UZ tonf-m	RX tonf-m	RY tonf-m	RZ tonf-m	Modal Mass tonf-m-s ²	Modal Stiffness tonf-m
Modal	1	0.226	2.736617	-0.001394	0	-0.000191	0.631473	-0.662385	1	775.1304
Modal	2	0.189	0.062656	1.17195	0	-0.28161	0.014214	23.160144	1	1099.42334
Modal	3	0.188	0.028213	-2.467644	0	0.644282	0.006379	10.978084	1	1119.18801
Modal	4	0.047	-0.021256	-6E-06	0	0.000765	0.035528	0.043343	1	18234.70732
Modal	5	0.043	0.014664	6.5E-05	0	-4E-05	-0.047787	-0.029007	1	21479.10679
Modal	6	0.04	-0.002807	9.6E-05	0	0.000676	-0.170007	0.005285	1	24654.32484
Modal	7	0.038	-0.000116	8E-06	0	9.9E-05	0.01919	-0.000354	1	27406.13733
Modal	8	0.037	0.00016	-7E-06	0	-5.9E-05	0.029972	-0.000317	1	28401.83509
Modal	9	0.036	-0.00101	-0.000243	0	-0.001591	-0.174739	0.002121	1	31249.21607
Modal	10	0.035	0.003701	0.002182	0	0.006042	-0.015438	-0.080271	1	33140.81224
Modal	11	0.034	9.2E-05	0.000113	0	0.000624	-0.000484	-0.004515	1	34606.98255
Modal	12	0.034	0.000281	-0.00166	0	-0.006604	-0.001015	-0.000536	1	34947.14313
Modal	13	0.033	0.002194	-0.000321	0	-0.001592	-0.010011	0.000712	1	35392.74462

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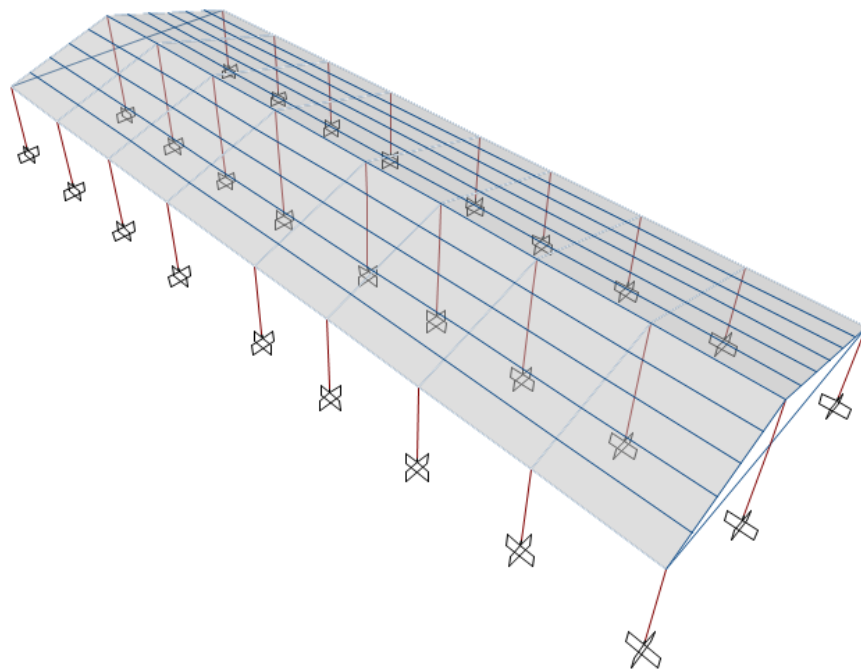
Case	Mode	Period sec	UX tonf-m	UY tonf-m	UZ tonf-m	RX tonf-m	RY tonf-m	RZ tonf-m	Modal Mass tonf-m-s ²	Modal Stiffness tonf-m
Modal	14	0.033	-0.003464	-0.003704	0	-0.014474	0.016056	0.077196	1	35906.95164
Modal	15	0.033	-0.002403	0.000798	0	0.003775	0.011349	-0.0095	1	37260.71633
Modal	16	0.032	0.007015	-0.004071	0	-0.01853	-0.034054	0.098821	1	37555.15394
Modal	17	0.032	-0.004678	0.002452	0	0.015792	0.024722	0.102631	1	37896.60302
Modal	18	0.032	0.000286	-0.000441	0	-0.00326	-0.001062	-0.007763	1	38811.79517
Modal	19	0.032	0.000321	0.005888	0	0.033468	-0.001604	-0.003568	1	39115.72616
Modal	20	0.032	0.002098	0.001687	0	0.010826	-0.011947	0.009028	1	39610.06098
Modal	21	0.031	2.3E-05	0.000355	0	0.002465	0.03516	-0.00052	1	40026.61445
Modal	22	0.031	9.3E-05	0.186349	0	1.276322	-0.001075	-0.021555	1	41019.64407
Modal	23	0.031	-0.000728	0.000246	0	0.001802	0.000317	0.005083	1	41197.3818
Modal	24	0.03	-0.018793	0.000941	0	0.005368	0.134391	-0.073106	1	44239.06733

Table 1.4 - Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	100	99.96
Modal	Acceleration	UY	100	100
Modal	Acceleration	UZ	0	0

Table 1.5 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0.226	0.999	0	0	0.001
Modal	2	0.189	0.001	0.189	0	0.81
Modal	3	0.188	0	0.821	0	0.179
Modal	4	0.047	0.798	0	0	0.202
Modal	5	0.043	0.814	0	0	0.186
Modal	6	0.04	0.717	0.003	0	0.28
Modal	7	0.038	0.024	0.003	0	0.974
Modal	8	0.037	0.84	0.003	0	0.157
Modal	9	0.036	0.638	0.069	0	0.294
Modal	10	0.035	0.072	0.002	0	0.926
Modal	11	0.034	0.014	0.006	0	0.98
Modal	12	0.034	0.057	0.234	0	0.708
Modal	13	0.033	0.987	0.004	0	0.009
Modal	14	0.033	0.059	0.009	0	0.932
Modal	15	0.033	0.682	0.009	0	0.309
Modal	16	0.032	0.144	0.008	0	0.848
Modal	17	0.032	0.07	0.004	0	0.926
Modal	18	0.032	0.05	0.033	0	0.916
Modal	19	0.032	0.013	0.899	0	0.088
Modal	20	0.032	0.621	0.098	0	0.281
Modal	21	0.031	0.699	0.269	0	0.032
Modal	22	0.031	0	1	0	0
Modal	23	0.031	0.521	0.014	0	0.465
Modal	24	0.03	0.751	0	0	0.248



DATOS DE ENTRADA 3

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1.1 Structure Results

1.2 Point Results

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1 Analysis Results

This chapter provides analysis results.

1.1 Structure Results

Table 1.1 - Base Reactions

Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m	X m	Y m	Z m
CV	0	0	13.602	189.7171	-62.3942	0	0	0	0
CM	0	0	76.7804	1069.5328	-355.7181	0	0	0	0
CIM1	0	0	90.3825	1259.25	-418.1122	0	0	0	0
CIM2 Max	9.671	0.0124	76.7804	1069.5672	-323.0495	136.5324	0	0	0
CIM2 Min	-9.671	-0.0124	76.7804	1069.4985	-388.3866	-136.5324	0	0	0
CIM3 Max	0.0124	9.6243	76.7804	1094.5451	-355.6773	46.2405	0	0	0
CIM3 Min	-0.0124	-9.6243	76.7804	1044.5205	-355.7589	-46.2405	0	0	0
CIM4 Max	6.9846	0.009	86.9819	1211.8455	-378.9198	98.6067	0	0	0
CIM4 Min	-6.9846	-0.009	86.9819	1211.7959	-426.1076	-98.6067	0	0	0
CIM5 Max	0.009	6.9509	86.9819	1229.8851	-402.4842	33.3959	0	0	0
CIM5 Min	-0.009	-6.9509	86.9819	1193.7562	-402.5432	-33.3959	0	0	0
CIM6 Max	9.671	0.0124	46.0683	641.7541	-180.7623	136.5324	0	0	0
CIM6 Min	-9.671	-0.0124	46.0683	641.6853	-246.0994	-136.5324	0	0	0
CIM7 Max	0.0124	9.6243	46.0683	666.732	-213.3901	46.2405	0	0	0
CIM7 Min	-0.0124	-9.6243	46.0683	616.7074	-213.4716	-46.2405	0	0	0

Table 1.2 - Centers of Mass and Rigidity

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulative X tonf-s ² /m	Cumulative Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
NE+4.1053	D1	1.58261	1.58261	4.7085	13.9102	1.58261	1.58261	4.7085	13.9102		
NE+2.6365	D1	2.18049	2.18049	4.7901	13.9138	3.7631	3.7631	4.7558	13.9123		

1.2 Point Results

Table 1.3 - Joint Reactions

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	39	77	CV	0.0008	-0.0006	0.4425	0.0004	0.0025	-1.123E-06
Base	39	77	CM	0.0218	-0.0084	2.4101	0.007	0.0299	-7.041E-06
Base	39	77	CIM1	0.0227	-0.0089	2.8526	0.0074	0.0325	-8.165E-06
Base	39	77	CIM2 Max	0.2434	-0.0004	2.567	0.0186	0.5731	0.0009
Base	39	77	CIM2 Min	-0.1997	-0.0163	2.2532	-0.0046	-0.5132	-0.001
Base	39	77	CIM3 Max	0.0312	0.3999	2.4557	0.5916	0.0523	0.0012
Base	39	77	CIM3 Min	0.0125	-0.4167	2.3645	-0.5776	0.0076	-0.0012
Base	39	77	CIM4 Max	0.1825	-0.003	2.8553	0.0157	0.4241	0.0007
Base	39	77	CIM4 Min	-0.1376	-0.0145	2.6286	-0.0011	-0.3604	-0.0007
Base	39	77	CIM5 Max	0.0292	0.2861	2.7749	0.4295	0.048	0.0009
Base	39	77	CIM5 Min	0.0157	-0.3037	2.709	-0.4149	0.0157	-0.0009
Base	39	77	CIM6 Max	0.2347	0.0029	1.603	0.0158	0.5611	0.0009
Base	39	77	CIM6 Min	-0.2085	-0.013	1.2891	-0.0074	-0.5252	-0.001
Base	39	77	CIM7 Max	0.0225	0.4033	1.4917	0.5888	0.0403	0.0012
Base	39	77	CIM7 Min	0.0037	-0.4134	1.4004	-0.5804	-0.0044	-0.0012
Base	46	92	CV	0.0006	0.0003	0.4397	-0.0003	0.0024	-1.123E-06
Base	46	92	CM	0.0068	0.0029	2.3739	-0.0028	0.0169	-7.041E-06
Base	46	92	CIM1	0.0074	0.0032	2.8136	-0.0031	0.0193	-8.165E-06
Base	46	92	CIM2 Max	0.2082	0.0112	2.5308	0.0091	0.5452	0.0009

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CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	46	92	CIM2 Min	-0.1947	-0.0053	2.2171	-0.0147	-0.5114	-0.001
Base	46	92	CIM3 Max	0.0124	0.3984	2.3788	0.5706	0.0315	0.0012
Base	46	92	CIM3 Min	0.0012	-0.3925	2.369	-0.5763	0.0023	-0.0012
Base	46	92	CIM4 Max	0.1527	0.0091	2.8169	0.0056	0.4002	0.0007
Base	46	92	CIM4 Min	-0.1382	-0.0028	2.5904	-0.0116	-0.3628	-0.0007
Base	46	92	CIM5 Max	0.0113	0.2888	2.7072	0.4111	0.0292	0.0009
Base	46	92	CIM5 Min	0.0032	-0.2825	2.7001	-0.4172	0.0082	-0.0009
Base	46	92	CIM6 Max	0.2055	0.01	1.5812	0.0102	0.5384	0.0009
Base	46	92	CIM6 Min	-0.1974	-0.0065	1.2675	-0.0136	-0.5181	-0.001
Base	46	92	CIM7 Max	0.0097	0.3972	1.4292	0.5718	0.0247	0.0012
Base	46	92	CIM7 Min	-0.0015	-0.3937	1.4194	-0.5751	-0.0044	-0.0012
Base	51	98	CV	0.0006	-0.0014	0.4166	0.0011	0.0024	-1.123E-06
Base	51	98	CM	0.0051	-0.0146	2.2471	0.0124	0.0154	-7.041E-06
Base	51	98	CIM1	0.0057	-0.016	2.6638	0.0135	0.0178	-8.165E-06
Base	51	98	CIM2 Max	0.2056	-0.0067	2.4042	0.024	0.5455	0.0009
Base	51	98	CIM2 Min	-0.1955	-0.0225	2.0901	0.0008	-0.5147	-0.001
Base	51	98	CIM3 Max	0.008	0.3895	2.2776	0.5933	0.0232	0.0012
Base	51	98	CIM3 Min	0.0021	-0.4187	2.2167	-0.5685	0.0076	-0.0012
Base	51	98	CIM4 Max	0.1504	-0.0099	2.673	0.0216	0.4001	0.0007
Base	51	98	CIM4 Min	-0.1393	-0.0214	2.4462	0.0049	-0.3656	-0.0007
Base	51	98	CIM5 Max	0.0077	0.2762	2.5816	0.4328	0.0228	0.0009
Base	51	98	CIM5 Min	0.0034	-0.3075	2.5376	-0.4063	0.0116	-0.0009
Base	51	98	CIM6 Max	0.2036	-0.0008	1.5053	0.019	0.5394	0.0009
Base	51	98	CIM6 Min	-0.1975	-0.0167	1.1912	-0.0042	-0.5208	-0.001
Base	51	98	CIM7 Max	0.006	0.3953	1.3788	0.5884	0.0171	0.0012
Base	51	98	CIM7 Min	0.0001	-0.4128	1.3178	-0.5735	0.0015	-0.0012
Base	54	104	CV	0.0007	0.0048	0.4752	-0.0042	0.0024	-1.123E-06
Base	54	104	CM	0.0051	0.0461	2.5505	-0.0403	0.0155	-7.041E-06
Base	54	104	CIM1	0.0058	0.0509	3.0257	-0.0445	0.0179	-8.165E-06
Base	54	104	CIM2 Max	0.2068	0.0553	2.7097	-0.0276	0.549	0.0009
Base	54	104	CIM2 Min	-0.1965	0.0369	2.3913	-0.053	-0.5179	-0.001
Base	54	104	CIM3 Max	0.0058	0.4389	2.6262	0.5309	0.0173	0.0012
Base	54	104	CIM3 Min	0.0044	-0.3467	2.4749	-0.6114	0.0137	-0.0012
Base	54	104	CIM4 Max	0.1513	0.0564	3.0219	-0.0343	0.4026	0.0007
Base	54	104	CIM4 Min	-0.14	0.0431	2.7919	-0.0526	-0.3679	-0.0007
Base	54	104	CIM5 Max	0.0061	0.3334	2.9615	0.369	0.0186	0.0009
Base	54	104	CIM5 Min	0.0051	-0.234	2.8523	-0.4559	0.016	-0.0009
Base	54	104	CIM6 Max	0.2047	0.0369	1.6895	-0.0115	0.5427	0.0009
Base	54	104	CIM6 Min	-0.1986	0.0185	1.3711	-0.0369	-0.5241	-0.001
Base	54	104	CIM7 Max	0.0038	0.4205	1.606	0.547	0.0111	0.0012
Base	54	104	CIM7 Min	0.0024	-0.3651	1.4547	-0.5953	0.0075	-0.0012
Base	57	110	CV	0.0007	-0.0037	0.4969	0.0031	0.0024	-1.123E-06
Base	57	110	CM	0.0054	-0.0359	2.6544	0.0309	0.0158	-7.041E-06
Base	57	110	CIM1	0.0061	-0.0396	3.1513	0.0341	0.0182	-8.165E-06
Base	57	110	CIM2 Max	0.2092	-0.0287	2.8181	0.0419	0.5545	0.0009
Base	57	110	CIM2 Min	-0.1984	-0.0432	2.4908	0.0199	-0.5229	-0.001
Base	57	110	CIM3 Max	0.0079	0.3514	2.7015	0.5973	0.0225	0.0012
Base	57	110	CIM3 Min	0.0028	-0.4232	2.6073	-0.5354	0.0091	-0.0012
Base	57	110	CIM4 Max	0.1531	-0.0335	3.1452	0.0412	0.4067	0.0007
Base	57	110	CIM4 Min	-0.1413	-0.0439	2.9089	0.0253	-0.3715	-0.0007
Base	57	110	CIM5 Max	0.0077	0.241	3.0611	0.4423	0.0225	0.0009
Base	57	110	CIM5 Min	0.0041	-0.3184	2.9931	-0.3758	0.0128	-0.0009
Base	57	110	CIM6 Max	0.207	-0.0143	1.7563	0.0295	0.5482	0.0009

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	57	110	CIM6 Min	-0.2006	-0.0288	1.429	0.0076	-0.5292	-0.001
Base	57	110	CIM7 Max	0.0058	0.3657	1.6397	0.5849	0.0162	0.0012
Base	57	110	CIM7 Min	0.0007	-0.4089	1.5456	-0.5478	0.0027	-0.0012
Base	61	117	CV	0.0006	0.0004	0.4406	-0.0004	0.0024	-1.123E-06
Base	61	117	CM	0.0068	0.0041	2.3591	-0.0038	0.017	-7.041E-06
Base	61	117	CIM1	0.0074	0.0045	2.7996	-0.0042	0.0194	-8.165E-06
Base	61	117	CIM2 Max	0.2145	0.0123	2.5202	0.0081	0.5618	0.0009
Base	61	117	CIM2 Min	-0.201	-0.0042	2.198	-0.0157	-0.5278	-0.001
Base	61	117	CIM3 Max	0.012	0.4016	2.3708	0.5714	0.0305	0.0012
Base	61	117	CIM3 Min	0.0016	-0.3934	2.3474	-0.579	0.0035	-0.0012
Base	61	117	CIM4 Max	0.1573	0.0103	2.8059	0.0045	0.4123	0.0007
Base	61	117	CIM4 Min	-0.1428	-0.0016	2.5731	-0.0127	-0.3747	-0.0007
Base	61	117	CIM5 Max	0.011	0.2915	2.6979	0.4113	0.0286	0.0009
Base	61	117	CIM5 Min	0.0035	-0.2827	2.6811	-0.4195	0.009	-0.0009
Base	61	117	CIM6 Max	0.2118	0.0107	1.5766	0.0096	0.555	0.0009
Base	61	117	CIM6 Min	-0.2037	-0.0058	1.2543	-0.0141	-0.5346	-0.001
Base	61	117	CIM7 Max	0.0093	0.3999	1.4271	0.5729	0.0237	0.0012
Base	61	117	CIM7 Min	-0.0011	-0.3951	1.4038	-0.5775	-0.0033	-0.0012
Base	65	124	CV	0.0008	0.0009	0.4508	-0.0009	0.0026	-1.123E-06
Base	65	124	CM	0.0215	0.0113	2.4492	-0.01	0.0298	-7.041E-06
Base	65	124	CIM1	0.0223	0.0122	2.9	-0.0109	0.0324	-8.165E-06
Base	65	124	CIM2 Max	0.2534	0.0201	2.6156	0.0024	0.5983	0.0009
Base	65	124	CIM2 Min	-0.2103	0.0024	2.2828	-0.0225	-0.5386	-0.001
Base	65	124	CIM3 Max	0.0304	0.418	2.4888	0.5732	0.051	0.0012
Base	65	124	CIM3 Min	0.0126	-0.3955	2.4096	-0.5932	0.0086	-0.0012
Base	65	124	CIM4 Max	0.1896	0.0184	2.9075	-0.0017	0.4423	0.0007
Base	65	124	CIM4 Min	-0.1453	0.0056	2.6671	-0.0197	-0.3788	-0.0007
Base	65	124	CIM5 Max	0.0286	0.3057	2.8159	0.4105	0.0471	0.0009
Base	65	124	CIM5 Min	0.0157	-0.2818	2.7587	-0.4319	0.0164	-0.0009
Base	65	124	CIM6 Max	0.2448	0.0156	1.6359	0.0064	0.5863	0.0009
Base	65	124	CIM6 Min	-0.2189	-0.0021	1.3031	-0.0184	-0.5506	-0.001
Base	65	124	CIM7 Max	0.0218	0.4135	1.5091	0.5772	0.0391	0.0012
Base	65	124	CIM7 Min	0.004	-0.4	1.4299	-0.5892	-0.0033	-0.0012
Base	2	4	CV	0.0024	0.0075	0.2421	-0.0065	0.0039	-1.123E-06
Base	2	4	CM	0.1591	0.0677	1.9434	-0.059	0.1489	-7.041E-06
Base	2	4	CIM1	0.1614	0.0751	2.1855	-0.0655	0.1528	-8.165E-06
Base	2	4	CIM2 Max	0.5765	0.0763	2.2576	-0.0468	0.8593	0.0009
Base	2	4	CIM2 Min	-0.2583	0.0591	1.6291	-0.0711	-0.5614	-0.001
Base	2	4	CIM3 Max	0.1821	0.3876	2.1592	0.449	0.1876	0.0012
Base	2	4	CIM3 Min	0.136	-0.2523	1.7275	-0.5669	0.1103	-0.0012
Base	2	4	CIM4 Max	0.4623	0.0795	2.3519	-0.0551	0.6649	0.0007
Base	2	4	CIM4 Min	-0.1406	0.067	1.898	-0.0726	-0.3612	-0.0007
Base	2	4	CIM5 Max	0.1775	0.3043	2.2808	0.303	0.1798	0.0009
Base	2	4	CIM5 Min	0.1442	-0.1578	1.969	-0.4307	0.1239	-0.0009
Base	2	4	CIM6 Max	0.5128	0.0492	1.4803	-0.0232	0.7997	0.0009
Base	2	4	CIM6 Min	-0.322	0.032	0.8518	-0.0475	-0.621	-0.001
Base	2	4	CIM7 Max	0.1185	0.3605	1.3819	0.4726	0.128	0.0012
Base	2	4	CIM7 Min	0.0724	-0.2794	0.9502	-0.5433	0.0507	-0.0012
Base	8	17	CV	0.0024	-0.0078	0.2493	0.0067	0.004	-1.123E-06
Base	8	17	CM	0.1596	-0.0715	1.9748	0.0617	0.1496	-7.041E-06
Base	8	17	CIM1	0.162	-0.0792	2.2241	0.0684	0.1536	-8.165E-06
Base	8	17	CIM2 Max	0.6043	-0.0664	2.3039	0.0707	0.9055	0.0009
Base	8	17	CIM2 Min	-0.2851	-0.0765	1.6458	0.0527	-0.6063	-0.001

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	8	17	CIM3 Max	0.1819	0.2464	2.1837	0.5678	0.1871	0.0012
Base	8	17	CIM3 Min	0.1372	-0.3893	1.766	-0.4444	0.1121	-0.0012
Base	8	17	CIM4 Max	0.4826	-0.0737	2.3994	0.0732	0.6985	0.0007
Base	8	17	CIM4 Min	-0.1598	-0.0809	1.9242	0.0602	-0.3934	-0.0007
Base	8	17	CIM5 Max	0.1775	0.1522	2.3126	0.4322	0.1797	0.0009
Base	8	17	CIM5 Min	0.1453	-0.3068	2.0109	-0.2988	0.1255	-0.0009
Base	8	17	CIM6 Max	0.5405	-0.0378	1.5139	0.046	0.8457	0.0009
Base	8	17	CIM6 Min	-0.349	-0.0479	0.8559	0.028	-0.6661	-0.001
Base	8	17	CIM7 Max	0.1181	0.2749	1.3937	0.5431	0.1273	0.0012
Base	8	17	CIM7 Min	0.0734	-0.3607	0.9761	-0.469	0.0522	-0.0012
Base	4	80	CV	-0.0009	-0.0005	0.4319	0.0004	0.001	-1.123E-06
Base	4	80	CM	-0.0277	-0.0086	2.3736	0.0072	-0.013	-7.041E-06
Base	4	80	CIM1	-0.0286	-0.009	2.8055	0.0076	-0.012	-8.165E-06
Base	4	80	CIM2 Max	0.1904	0.0004	2.4869	0.0203	0.527	0.0009
Base	4	80	CIM2 Min	-0.2458	-0.0175	2.2602	-0.0058	-0.5531	-0.001
Base	4	80	CIM3 Max	-0.0185	0.4023	2.4165	0.5955	0.0091	0.0012
Base	4	80	CIM3 Min	-0.0369	-0.4195	2.3306	-0.581	-0.0352	-0.0012
Base	4	80	CIM4 Max	0.1291	-0.0024	2.7794	0.0169	0.3778	0.0007
Base	4	80	CIM4 Min	-0.1859	-0.0154	2.6156	-0.0019	-0.4023	-0.0007
Base	4	80	CIM5 Max	-0.0217	0.2878	2.7285	0.4324	0.0038	0.0009
Base	4	80	CIM5 Min	-0.035	-0.3057	2.6665	-0.4173	-0.0283	-0.0009
Base	4	80	CIM6 Max	0.2015	0.0038	1.5375	0.0174	0.5322	0.0009
Base	4	80	CIM6 Min	-0.2347	-0.0141	1.3108	-0.0087	-0.5479	-0.001
Base	4	80	CIM7 Max	-0.0074	0.4057	1.4671	0.5926	0.0143	0.0012
Base	4	80	CIM7 Min	-0.0258	-0.416	1.3812	-0.5839	-0.03	-0.0012
Base	5	94	CV	-0.0011	0.0002	0.4293	-0.0002	0.0009	-1.123E-06
Base	5	94	CM	-0.004	0.0029	2.3378	-0.0027	0.0075	-7.041E-06
Base	5	94	CIM1	-0.0051	0.0031	2.7671	-0.0029	0.0084	-8.165E-06
Base	5	94	CIM2 Max	0.1966	0.012	2.4511	0.0105	0.5351	0.0009
Base	5	94	CIM2 Min	-0.2046	-0.0063	2.2245	-0.0159	-0.52	-0.001
Base	5	94	CIM3 Max	0.0016	0.4004	2.3435	0.574	0.0221	0.0012
Base	5	94	CIM3 Min	-0.0096	-0.3947	2.3321	-0.5794	-0.007	-0.0012
Base	5	94	CIM4 Max	0.14	0.0096	2.7416	0.0067	0.3892	0.0007
Base	5	94	CIM4 Min	-0.1497	-0.0036	2.5779	-0.0124	-0.3728	-0.0007
Base	5	94	CIM5 Max	-0.0008	0.2902	2.6639	0.4136	0.0187	0.0009
Base	5	94	CIM5 Min	-0.0089	-0.2841	2.6556	-0.4193	-0.0023	-0.0009
Base	5	94	CIM6 Max	0.1982	0.0108	1.516	0.0116	0.532	0.0009
Base	5	94	CIM6 Min	-0.203	-0.0074	1.2894	-0.0148	-0.523	-0.001
Base	5	94	CIM7 Max	0.0032	0.3993	1.4084	0.5751	0.0191	0.0012
Base	5	94	CIM7 Min	-0.008	-0.3958	1.3969	-0.5783	-0.01	-0.0012
Base	9	100	CV	-0.0011	-0.0014	0.4026	0.0012	0.0009	-1.123E-06
Base	9	100	CM	-0.0013	-0.015	2.1984	0.0128	0.0099	-7.041E-06
Base	9	100	CIM1	-0.0024	-0.0164	2.601	0.014	0.0108	-8.165E-06
Base	9	100	CIM2 Max	0.1986	-0.0061	2.3118	0.0258	0.5395	0.0009
Base	9	100	CIM2 Min	-0.2013	-0.0239	2.085	-0.0001	-0.5197	-0.001
Base	9	100	CIM3 Max	0.0016	0.3914	2.2307	0.5973	0.0177	0.0012
Base	9	100	CIM3 Min	-0.0043	-0.4215	2.1661	-0.5716	0.0021	-0.0012
Base	9	100	CIM4 Max	0.1423	-0.0096	2.5822	0.0231	0.393	0.0007
Base	9	100	CIM4 Min	-0.1466	-0.0225	2.4184	0.0043	-0.372	-0.0007
Base	9	100	CIM5 Max	-2.547E-05	0.2775	2.5236	0.4358	0.0162	0.0009
Base	9	100	CIM5 Min	-0.0043	-0.3096	2.477	-0.4084	0.0049	-0.0009
Base	9	100	CIM6 Max	0.1992	-0.0001	1.4324	0.0207	0.5355	0.0009
Base	9	100	CIM6 Min	-0.2008	-0.0179	1.2056	-0.0053	-0.5237	-0.001
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CONSORCIO

CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	9	100	CIM7 Max	0.0022	0.3975	1.3513	0.5921	0.0137	0.0012
Base	9	100	CIM7 Min	-0.0037	-0.4155	1.2867	-0.5767	-0.0019	-0.0012
Base	10	106	CV	-0.0012	0.0049	0.4703	-0.0043	0.0008	-1.123E-06
Base	10	106	CM	-0.0014	0.0471	2.5329	-0.041	0.0098	-7.041E-06
Base	10	106	CIM1	-0.0027	0.0519	3.0032	-0.0453	0.0106	-8.165E-06
Base	10	106	CIM2 Max	0.1997	0.057	2.6476	-0.0272	0.5428	0.0009
Base	10	106	CIM2 Min	-0.2025	0.0372	2.4182	-0.0549	-0.5231	-0.001
Base	10	106	CIM3 Max	-0.0007	0.4419	2.6099	0.5333	0.0116	0.0012
Base	10	106	CIM3 Min	-0.0021	-0.3478	2.4559	-0.6154	0.008	-0.0012
Base	10	106	CIM4 Max	0.1429	0.0579	2.9684	-0.0342	0.3953	0.0007
Base	10	106	CIM4 Min	-0.1476	0.0436	2.8027	-0.0542	-0.3745	-0.0007
Base	10	106	CIM5 Max	-0.0019	0.3359	2.9412	0.3706	0.0117	0.0009
Base	10	106	CIM5 Min	-0.0028	-0.2345	2.83	-0.459	0.0091	-0.0009
Base	10	106	CIM6 Max	0.2002	0.0381	1.6345	-0.0108	0.5389	0.0009
Base	10	106	CIM6 Min	-0.2019	0.0183	1.405	-0.0384	-0.5271	-0.001
Base	10	106	CIM7 Max	-0.0002	0.4231	1.5967	0.5497	0.0077	0.0012
Base	10	106	CIM7 Min	-0.0015	-0.3666	1.4427	-0.599	0.0041	-0.0012
Base	11	112	CV	-0.0013	-0.0038	0.4954	0.0032	0.0007	-1.123E-06
Base	11	112	CM	-0.0019	-0.037	2.6483	0.0319	0.0095	-7.041E-06
Base	11	112	CIM1	-0.0031	-0.0408	3.1436	0.0351	0.0102	-8.165E-06
Base	11	112	CIM2 Max	0.2014	-0.0288	2.767	0.0443	0.5477	0.0009
Base	11	112	CIM2 Min	-0.2051	-0.0452	2.5295	0.0195	-0.5287	-0.001
Base	11	112	CIM3 Max	0.0007	0.3522	2.6968	0.6013	0.0162	0.0012
Base	11	112	CIM3 Min	-0.0044	-0.4262	2.5997	-0.5376	0.0028	-0.0012
Base	11	112	CIM4 Max	0.144	-0.0339	3.1056	0.0433	0.3987	0.0007
Base	11	112	CIM4 Min	-0.1496	-0.0457	2.934	0.0254	-0.3787	-0.0007
Base	11	112	CIM5 Max	-0.001	0.2413	3.0549	0.4456	0.0149	0.0009
Base	11	112	CIM5 Min	-0.0047	-0.3209	2.9847	-0.377	0.0052	-0.0009
Base	11	112	CIM6 Max	0.2021	-0.014	1.7077	0.0315	0.5439	0.0009
Base	11	112	CIM6 Min	-0.2043	-0.0304	1.4702	0.0068	-0.5325	-0.001
Base	11	112	CIM7 Max	0.0014	0.367	1.6375	0.5886	0.0124	0.0012
Base	11	112	CIM7 Min	-0.0037	-0.4114	1.5404	-0.5503	-0.001	-0.0012
Base	14	119	CV	-0.0012	0.0004	0.4297	-0.0004	0.0008	-1.123E-06
Base	14	119	CM	-0.004	0.004	2.3206	-0.0037	0.0076	-7.041E-06
Base	14	119	CIM1	-0.0052	0.0044	2.7503	-0.0041	0.0085	-8.165E-06
Base	14	119	CIM2 Max	0.2028	0.0131	2.4367	0.0095	0.5517	0.0009
Base	14	119	CIM2 Min	-0.2109	-0.0051	2.2045	-0.0169	-0.5364	-0.001
Base	14	119	CIM3 Max	0.0011	0.4037	2.3347	0.5749	0.0211	0.0012
Base	14	119	CIM3 Min	-0.0092	-0.3957	2.3065	-0.5822	-0.0059	-0.0012
Base	14	119	CIM4 Max	0.1445	0.0109	2.7267	0.0056	0.4012	0.0007
Base	14	119	CIM4 Min	-0.1543	-0.0023	2.559	-0.0135	-0.3847	-0.0007
Base	14	119	CIM5 Max	-0.0012	0.293	2.6531	0.4139	0.018	0.0009
Base	14	119	CIM5 Min	-0.0086	-0.2844	2.6326	-0.4218	-0.0015	-0.0009
Base	14	119	CIM6 Max	0.2045	0.0115	1.5085	0.011	0.5486	0.0009
Base	14	119	CIM6 Min	-0.2093	-0.0067	1.2762	-0.0154	-0.5395	-0.001
Base	14	119	CIM7 Max	0.0028	0.4021	1.4065	0.5763	0.0181	0.0012
Base	14	119	CIM7 Min	-0.0076	-0.3973	1.3782	-0.5807	-0.0089	-0.0012
Base	20	126	CV	-0.0009	0.0008	0.439	-0.0007	0.001	-1.123E-06
Base	20	126	CM	-0.0272	0.0111	2.4088	-0.0099	-0.0124	-7.041E-06
Base	20	126	CIM1	-0.0281	0.012	2.8477	-0.0106	-0.0114	-8.165E-06
Base	20	126	CIM2 Max	0.201	0.0208	2.5295	0.0038	0.5529	0.0009
Base	20	126	CIM2 Min	-0.2554	0.0014	2.2881	-0.0235	-0.5777	-0.001
Base	20	126	CIM3 Max	-0.0184	0.4204	2.4455	0.577	0.0087	0.0012

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CONSORCIO

CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	20	126	CIM3 Min	-0.0359	-0.3981	2.3721	-0.5967	-0.0335	-0.0012
Base	20	126	CIM4 Max	0.1369	0.0188	2.8252	-0.0005	0.3966	0.0007
Base	20	126	CIM4 Min	-0.1927	0.0048	2.6508	-0.0203	-0.4199	-0.0007
Base	20	126	CIM5 Max	-0.0216	0.3073	2.7645	0.4134	0.0036	0.0009
Base	20	126	CIM5 Min	-0.0342	-0.2838	2.7115	-0.4342	-0.0269	-0.0009
Base	20	126	CIM6 Max	0.2119	0.0164	1.566	0.0078	0.5578	0.0009
Base	20	126	CIM6 Min	-0.2445	-0.003	1.3245	-0.0196	-0.5727	-0.001
Base	20	126	CIM7 Max	-0.0076	0.4159	1.4819	0.5809	0.0136	0.0012
Base	20	126	CIM7 Min	-0.025	-0.4025	1.4086	-0.5927	-0.0285	-0.0012
Base	25	11	CV	0.001	0.0074	0.1982	-0.0064	0.0027	-1.123E-06
Base	25	11	CM	-0.2435	0.0681	1.9227	-0.0593	-0.2003	-7.041E-06
Base	25	11	CIM1	-0.2425	0.0755	2.1209	-0.0657	-0.1976	-8.165E-06
Base	25	11	CIM2 Max	0.1461	0.0771	2.1508	-0.0462	0.486	0.0009
Base	25	11	CIM2 Min	-0.6331	0.0591	1.6947	-0.0723	-0.8865	-0.001
Base	25	11	CIM3 Max	-0.2219	0.3897	2.136	0.4515	-0.1628	0.0012
Base	25	11	CIM3 Min	-0.2651	-0.2535	1.7095	-0.57	-0.2377	-0.0012
Base	25	11	CIM4 Max	0.0386	0.0801	2.2361	-0.0547	0.2974	0.0007
Base	25	11	CIM4 Min	-0.5242	0.0671	1.9067	-0.0735	-0.6939	-0.0007
Base	25	11	CIM5 Max	-0.2272	0.3059	2.2254	0.3048	-0.1712	0.0009
Base	25	11	CIM5 Min	-0.2584	-0.1586	1.9174	-0.433	-0.2253	-0.0009
Base	25	11	CIM6 Max	0.2435	0.0498	1.3817	-0.0225	0.5661	0.0009
Base	25	11	CIM6 Min	-0.5357	0.0319	0.9256	-0.0486	-0.8064	-0.001
Base	25	11	CIM7 Max	-0.1245	0.3624	1.3669	0.4752	-0.0827	0.0012
Base	25	11	CIM7 Min	-0.1677	-0.2807	0.9404	-0.5463	-0.1576	-0.0012
Base	27	21	CV	0.001	-0.0077	0.2031	0.0067	0.0027	-1.123E-06
Base	27	21	CM	-0.2438	-0.0721	1.9465	0.0624	-0.2003	-7.041E-06
Base	27	21	CIM1	-0.2428	-0.0799	2.1496	0.069	-0.1976	-8.165E-06
Base	27	21	CIM2 Max	0.1714	-0.0661	2.1834	0.0728	0.53	0.0009
Base	27	21	CIM2 Min	-0.6591	-0.0781	1.7097	0.052	-0.9306	-0.001
Base	27	21	CIM3 Max	-0.2228	0.2472	2.1533	0.5712	-0.164	0.0012
Base	27	21	CIM3 Min	-0.2648	-0.3915	1.7398	-0.4465	-0.2367	-0.0012
Base	27	21	CIM4 Max	0.0568	-0.0736	2.2699	0.0749	0.3291	0.0007
Base	27	21	CIM4 Min	-0.543	-0.0823	1.9278	0.0599	-0.7257	-0.0007
Base	27	21	CIM5 Max	-0.2279	0.1527	2.2482	0.4349	-0.1721	0.0009
Base	27	21	CIM5 Min	-0.2582	-0.3086	1.9495	-0.3001	-0.2245	-0.0009
Base	27	21	CIM6 Max	0.2689	-0.0373	1.4047	0.0478	0.6101	0.0009
Base	27	21	CIM6 Min	-0.5615	-0.0493	0.9311	0.027	-0.8505	-0.001
Base	27	21	CIM7 Max	-0.1253	0.2761	1.3747	0.5463	-0.0839	0.0012
Base	27	21	CIM7 Min	-0.1673	-0.3626	0.9611	-0.4714	-0.1565	-0.0012
Base	29	78	CV	-0.0008	-3.738E-05	0.7893	-1.303E-05	0.0011	-1.123E-06
Base	29	78	CM	0.0052	0.0015	3.7784	-0.0015	0.0155	-7.041E-06
Base	29	78	CIM1	0.0043	0.0015	4.5677	-0.0015	0.0166	-8.165E-06
Base	29	78	CIM2 Max	0.5266	0.002	3.8218	-0.0007	0.8187	0.0009
Base	29	78	CIM2 Min	-0.5163	0.001	3.735	-0.0023	-0.7878	-0.001
Base	29	78	CIM3 Max	0.0263	0.3063	3.7821	0.4938	0.048	0.0012
Base	29	78	CIM3 Min	-0.016	-0.3033	3.7748	-0.4969	-0.0171	-0.0012
Base	29	78	CIM4 Max	0.3811	0.0018	4.4017	-0.001	0.5964	0.0007
Base	29	78	CIM4 Min	-0.3721	0.0011	4.3391	-0.0021	-0.5638	-0.0007
Base	29	78	CIM5 Max	0.0198	0.2216	4.373	0.3562	0.0398	0.0009
Base	29	78	CIM5 Min	-0.0107	-0.2187	4.3678	-0.3593	-0.0072	-0.0009
Base	29	78	CIM6 Max	0.5245	0.0014	2.3104	-0.0001	0.8125	0.0009
Base	29	78	CIM6 Min	-0.5183	0.0004	2.2237	-0.0017	-0.7939	-0.001
Base	29	78	CIM7 Max	0.0242	0.3057	2.2707	0.4945	0.0418	0.0012
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CONSORCIO

CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	29	78	CIM7 Min	-0.018	-0.3039	2.2634	-0.4963	-0.0233	-0.0012
Base	31	93	CV	-0.0009	-0.0001	0.7867	0.0001	0.0011	-1.123E-06
Base	31	93	CM	0.0046	-0.0005	3.7441	0.0002	0.015	-7.041E-06
Base	31	93	CIM1	0.0037	-0.0007	4.5308	0.0003	0.0161	-8.165E-06
Base	31	93	CIM2 Max	0.5286	-4.624E-05	3.7877	0.001	0.8231	0.0009
Base	31	93	CIM2 Min	-0.5195	-0.0011	3.7006	-0.0006	-0.7931	-0.001
Base	31	93	CIM3 Max	0.019	0.3044	3.7462	0.4957	0.0372	0.0012
Base	31	93	CIM3 Min	-0.0098	-0.3055	3.742	-0.4953	-0.0072	-0.0012
Base	31	93	CIM4 Max	0.3824	-0.0003	4.3656	0.0009	0.5994	0.0007
Base	31	93	CIM4 Min	-0.3745	-0.001	4.3027	-0.0003	-0.5678	-0.0007
Base	31	93	CIM5 Max	0.0143	0.2196	4.3356	0.3581	0.0318	0.0009
Base	31	93	CIM5 Min	-0.0065	-0.2209	4.3326	-0.3576	-0.0003	-0.0009
Base	31	93	CIM6 Max	0.5268	0.0002	2.29	0.0009	0.8171	0.0009
Base	31	93	CIM6 Min	-0.5213	-0.0008	2.2029	-0.0007	-0.7991	-0.001
Base	31	93	CIM7 Max	0.0171	0.3047	2.2486	0.4956	0.0312	0.0012
Base	31	93	CIM7 Min	-0.0117	-0.3053	2.2444	-0.4954	-0.0132	-0.0012
Base	33	99	CV	-0.0009	0.0005	0.7422	-0.0005	0.0011	-1.123E-06
Base	33	99	CM	0.0045	0.0037	3.5536	-0.0035	0.0149	-7.041E-06
Base	33	99	CIM1	0.0036	0.0042	4.2958	-0.0039	0.016	-8.165E-06
Base	33	99	CIM2 Max	0.5323	0.0042	3.5974	-0.0027	0.8289	0.0009
Base	33	99	CIM2 Min	-0.5233	0.0032	3.5099	-0.0043	-0.799	-0.001
Base	33	99	CIM3 Max	0.0123	0.3086	3.5571	0.492	0.0269	0.0012
Base	33	99	CIM3 Min	-0.0033	-0.3012	3.5501	-0.4989	0.0029	-0.0012
Base	33	99	CIM4 Max	0.385	0.0045	4.1418	-0.0033	0.6036	0.0007
Base	33	99	CIM4 Min	-0.3773	0.0037	4.0787	-0.0044	-0.5721	-0.0007
Base	33	99	CIM5 Max	0.0095	0.2243	4.1128	0.354	0.0244	0.0009
Base	33	99	CIM5 Min	-0.0018	-0.2161	4.1077	-0.3616	0.0071	-0.0009
Base	33	99	CIM6 Max	0.5305	0.0027	2.1759	-0.0013	0.823	0.0009
Base	33	99	CIM6 Min	-0.5251	0.0017	2.0884	-0.0029	-0.805	-0.001
Base	33	99	CIM7 Max	0.0105	0.3071	2.1357	0.4933	0.021	0.0012
Base	33	99	CIM7 Min	-0.0051	-0.3027	2.1287	-0.4975	-0.003	-0.0012
Base	35	105	CV	-0.0009	-0.0022	0.8541	0.0019	0.0011	-1.123E-06
Base	35	105	CM	0.0044	-0.0133	4.0185	0.0113	0.0149	-7.041E-06
Base	35	105	CIM1	0.0036	-0.0155	4.8725	0.0132	0.016	-8.165E-06
Base	35	105	CIM2 Max	0.5358	-0.0128	4.0628	0.0121	0.8343	0.0009
Base	35	105	CIM2 Min	-0.5269	-0.0138	3.9741	0.0105	-0.8045	-0.001
Base	35	105	CIM3 Max	0.0063	0.2917	4.0234	0.5068	0.0177	0.0012
Base	35	105	CIM3 Min	0.0026	-0.3183	4.0135	-0.4842	0.0121	-0.0012
Base	35	105	CIM4 Max	0.3875	-0.0146	4.691	0.0133	0.6075	0.0007
Base	35	105	CIM4 Min	-0.3799	-0.0153	4.627	0.0121	-0.5761	-0.0007
Base	35	105	CIM5 Max	0.0051	0.2054	4.6626	0.3706	0.0178	0.0009
Base	35	105	CIM5 Min	0.0025	-0.2352	4.6554	-0.3452	0.0137	-0.0009
Base	35	105	CIM6 Max	0.534	-0.0075	2.4554	0.0076	0.8284	0.0009
Base	35	105	CIM6 Min	-0.5286	-0.0085	2.3668	0.006	-0.8105	-0.001
Base	35	105	CIM7 Max	0.0045	0.297	2.416	0.5023	0.0118	0.0012
Base	35	105	CIM7 Min	0.0008	-0.313	2.4061	-0.4887	0.0061	-0.0012
Base	37	118	CV	-0.0009	-0.0002	0.7912	0.0001	0.0011	-1.123E-06
Base	37	118	CM	0.0045	-0.0007	3.7513	0.0003	0.015	-7.041E-06
Base	37	118	CIM1	0.0036	-0.0008	4.5425	0.0004	0.0161	-8.165E-06
Base	37	118	CIM2 Max	0.5449	-0.0002	3.7964	0.0011	0.8484	0.0009
Base	37	118	CIM2 Min	-0.536	-0.0012	3.7062	-0.0005	-0.8184	-0.001
Base	37	118	CIM3 Max	0.0178	0.3043	3.7525	0.4958	0.0356	0.0012
Base	37	118	CIM3 Min	-0.0089	-0.3056	3.75	-0.4952	-0.0056	-0.0012

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CONSORCIO

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NIT. 901615033-1

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	37	118	CIM4 Max	0.3941	-0.0004	4.3772	0.001	0.6177	0.0007
Base	37	118	CIM4 Min	-0.3865	-0.0011	4.3121	-0.0002	-0.5861	-0.0007
Base	37	118	CIM5 Max	0.0134	0.2195	4.3456	0.3583	0.0306	0.0009
Base	37	118	CIM5 Min	-0.0058	-0.221	4.3438	-0.3575	0.0009	-0.0009
Base	37	118	CIM6 Max	0.5431	0.0001	2.2958	0.001	0.8424	0.0009
Base	37	118	CIM6 Min	-0.5377	-0.0009	2.2057	-0.0006	-0.8244	-0.001
Base	37	118	CIM7 Max	0.016	0.3046	2.252	0.4957	0.0296	0.0012
Base	37	118	CIM7 Min	-0.0107	-0.3054	2.2495	-0.4953	-0.0116	-0.0012
Base	72	37	CV	-0.0009	0.0014	0.8989	-0.0013	0.0011	-1.123E-06
Base	72	37	CM	0.0044	0.0093	4.2009	-0.0083	0.0149	-7.041E-06
Base	72	37	CIM1	0.0035	0.0107	5.0998	-0.0096	0.016	-8.165E-06
Base	72	37	CIM2 Max	0.5407	0.0098	4.2458	-0.0075	0.8421	0.0009
Base	72	37	CIM2 Min	-0.5319	0.0088	4.156	-0.0091	-0.8122	-0.001
Base	72	37	CIM3 Max	0.011	0.3144	4.2111	0.4873	0.0251	0.0012
Base	72	37	CIM3 Min	-0.0022	-0.2958	4.1908	-0.5039	0.0047	-0.0012
Base	72	37	CIM4 Max	0.3911	0.0107	4.9076	-0.0087	0.6131	0.0007
Base	72	37	CIM4 Min	-0.3836	0.01	4.8427	-0.0098	-0.5817	-0.0007
Base	72	37	CIM5 Max	0.0085	0.2307	4.8825	0.3487	0.0231	0.0009
Base	72	37	CIM5 Min	-0.001	-0.21	4.8678	-0.3672	0.0083	-0.0009
Base	72	37	CIM6 Max	0.539	0.0061	2.5655	-0.0042	0.8361	0.0009
Base	72	37	CIM6 Min	-0.5337	0.0051	2.4756	-0.0058	-0.8182	-0.001
Base	72	37	CIM7 Max	0.0093	0.3107	2.5307	0.4906	0.0192	0.0012
Base	72	37	CIM7 Min	-0.004	-0.2995	2.5104	-0.5006	-0.0012	-0.0012
Base	74	7	CV	0.0011	-0.0031	0.3868	0.0026	0.0028	-1.123E-06
Base	74	7	CM	0.0655	-0.0157	4.1025	0.0134	0.0678	-7.041E-06
Base	74	7	CIM1	0.0666	-0.0187	4.4893	0.016	0.0706	-8.165E-06
Base	74	7	CIM2 Max	0.7211	-0.0151	4.189	0.0142	0.9847	0.0009
Base	74	7	CIM2 Min	-0.59	-0.0162	4.016	0.0125	-0.8491	-0.001
Base	74	7	CIM3 Max	0.1006	0.2911	4.1194	0.5105	0.117	0.0012
Base	74	7	CIM3 Min	0.0304	-0.3225	4.0856	-0.4837	0.0187	-0.0012
Base	74	7	CIM4 Max	0.5398	-0.0176	4.4551	0.0159	0.7321	0.0007
Base	74	7	CIM4 Min	-0.4071	-0.0184	4.3302	0.0147	-0.5923	-0.0007
Base	74	7	CIM5 Max	0.0917	0.2036	4.4048	0.3743	0.1054	0.0009
Base	74	7	CIM5 Min	0.041	-0.2396	4.3804	-0.3437	0.0344	-0.0009
Base	74	7	CIM6 Max	0.6948	-0.0089	2.548	0.0089	0.9576	0.0009
Base	74	7	CIM6 Min	-0.6162	-0.0099	2.375	0.0072	-0.8762	-0.001
Base	74	7	CIM7 Max	0.0744	0.2974	2.4784	0.5051	0.0898	0.0012
Base	74	7	CIM7 Min	0.0042	-0.3162	2.4446	-0.4891	-0.0085	-0.0012
Base	76	27	CV	0.0011	0.0031	0.3974	-0.0027	0.0028	-1.123E-06
Base	76	27	CM	0.0656	0.0163	4.146	-0.0144	0.0681	-7.041E-06
Base	76	27	CIM1	0.0667	0.0194	4.5434	-0.0171	0.0709	-8.165E-06
Base	76	27	CIM2 Max	0.7621	0.0168	4.2381	-0.0136	1.0424	0.0009
Base	76	27	CIM2 Min	-0.6308	0.0158	4.0539	-0.0151	-0.9062	-0.001
Base	76	27	CIM3 Max	0.0997	0.323	4.1622	0.4826	0.1158	0.0012
Base	76	27	CIM3 Min	0.0316	-0.2904	4.1298	-0.5114	0.0204	-0.0012
Base	76	27	CIM4 Max	0.5694	0.019	4.5105	-0.0159	0.7738	0.0007
Base	76	27	CIM4 Min	-0.4366	0.0183	4.3775	-0.017	-0.6334	-0.0007
Base	76	27	CIM5 Max	0.091	0.2401	4.4557	0.3425	0.1046	0.0009
Base	76	27	CIM5 Min	0.0418	-0.2029	4.4323	-0.3753	0.0358	-0.0009
Base	76	27	CIM6 Max	0.7358	0.0103	2.5797	-0.0079	1.0151	0.0009
Base	76	27	CIM6 Min	-0.6571	0.0093	2.3955	-0.0094	-0.9334	-0.001
Base	76	27	CIM7 Max	0.0734	0.3165	2.5038	0.4884	0.0885	0.0012
Base	76	27	CIM7 Min	0.0053	-0.2969	2.4714	-0.5056	-0.0068	-0.0012
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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	79	18	CV	-0.0009	-0.0003	0.8027	0.0002	0.0011	-1.123E-06
Base	79	18	CM	0.005	-0.0028	3.833	0.0022	0.0155	-7.041E-06
Base	79	18	CIM1	0.0041	-0.0031	4.6357	0.0024	0.0166	-8.165E-06
Base	79	18	CIM2 Max	0.5508	-0.0023	3.8786	0.003	0.8563	0.0009
Base	79	18	CIM2 Min	-0.5408	-0.0033	3.7874	0.0014	-0.8253	-0.001
Base	79	18	CIM3 Max	0.0251	0.3021	3.8371	0.4976	0.0464	0.0012
Base	79	18	CIM3 Min	-0.0151	-0.3077	3.8289	-0.4932	-0.0154	-0.0012
Base	79	18	CIM4 Max	0.3985	-0.0027	4.468	0.0029	0.6235	0.0007
Base	79	18	CIM4 Min	-0.3898	-0.0034	4.4021	0.0018	-0.5909	-0.0007
Base	79	18	CIM5 Max	0.0189	0.2171	4.438	0.3601	0.0386	0.0009
Base	79	18	CIM5 Min	-0.0102	-0.2232	4.4321	-0.3554	-0.006	-0.0009
Base	79	18	CIM6 Max	0.5488	-0.0012	2.3454	0.0021	0.8501	0.0009
Base	79	18	CIM6 Min	-0.5428	-0.0022	2.2542	0.0005	-0.8315	-0.001
Base	79	18	CIM7 Max	0.0231	0.3032	2.3039	0.4967	0.0402	0.0012
Base	79	18	CIM7 Min	-0.0171	-0.3065	2.2957	-0.4941	-0.0216	-0.0012

E. COMBINACIONES DE DISEÑO DE CIMENTACION

1. 1.00 C.M. + 1.00 C.V.
2. 1.00 C.M. + 0.18 S.X.
3. 1.00 C.M. + 0.18 S.Y.
4. 1.00 C.M. + 0.75 C.V. + 0.13 S.X.
5. 1.00 C.M. + 0.75 C.V. + 0.13 S.Y.
6. 0.60 C.M. + 0.18 S.X.
7. 0.60 C.M. + 0.18 S.Y.

C.M. = Carga Muerta
C.V. = Carga Viva
S.X. = Fuerzas Sísmicas Elásticas en X
S.Y. = Fuerzas Sísmicas Elásticas en Y

R_o = 5.0 PORTICO RESISTENTES A
MOMENTOS CON
 ϕ_p = 1.00 CAPACIDAD MODERADA DE
 ϕ_a = 1.00 DISIPACION DE ENERGIA
 ϕ_{Rx} = 1.00
 ϕ_{Ry} = 1.00
 $R = R_o \phi_a \phi_p \phi_r = 5.00$
 $R = R_o \phi_a \phi_p \phi_r = 5.00$

Sismo X= 1.00
Sismo Y= 1.00
III= 1.25

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.60CM+0.7SX/R
CIM7	0.60CM+0.7SY/R

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7.11 Diseño de elementos – Índices de Sobre esfuerzo

De acuerdo con la información de los modelos matemáticos realizados para el análisis de vulnerabilidad estructural del Jardín Infantil en el Hospital San Juan de Dios, los cuales han sido generados de acuerdo con la información recibida, fue posible generar el estado de esfuerzos para las condiciones de diseño, de esta manera se presentan los siguientes resultados.

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7.11.1 Columnas

Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

A-1 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=2.0Ton (ENVCMIn) Sec= 1.4Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Por Solicitaciones) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.5 P=3.1 Mppal=1.2 Msec=.3T m</p>	<p>F_c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.33 P=2.0 Mppal=.7 Msec=.3T m Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.54 P=3.1 Mppal=-1.2 Msec=-.3T m Relación Mínima Col/Vig=1.2(Viga:B101)</p>

A-2 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=1.0Ton (ENVCMIn) Sec= 1.7Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.0 Mppal=.2 Msec=.8T m</p>	<p>F_c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.26 P=2.3 Mppal=.0 Msec=-.6T m Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.39 P=2.0 Mppal=.2 Msec=.8T m Relación Mínima Col/Vig=.6(Viga:B101)</p>

A-3 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=.9Ton (ENVCMIn) Sec= 1.7Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.2 Mppal=-.3 Msec=-.8T m</p>	<p>F_c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.25 P=2.1 Mppal=.0 Msec=.5T m Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.38 P=2.2 Mppal=-.3 Msec=-.8T m Relación Mínima Col/Vig=.6(Viga:B101)</p>

A-4 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
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Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

A-4 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
<div>NE=2.6365</div> <div></div>	<div></div>	<div>V. Max Ppal=8.Ton (ENVCMIn) Sec=1.7Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</div>	<div></div>	<div>Fc= 24.5 Mpa Cuantia zona superior =0.83 Eficiencia zona superior = 0.26 P=2.1 Mpa=0.0 Msec=-.6T m Cuantia zona inferior =0.83 Eficiencia zona inferior = 0.39 P=1.9 Mpa=2.2 Msec=.8T m Relación Mínima Col/Vig=.6(Viga:B101)</div>

Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

A-7 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
	<p>B= 25H= 25 4#4(0.83%)</p>	<p>V. Max Ppal= .9Ton (ENVCMIn) Sec= 1.7Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.2 Mppal=-.3 Msec=-.8T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.25 P=2.0 Mppal= 0 Msec= .5T m Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.38 P=2.2 Mppal=-.3 Msec=-.8T m Relación Mínima Col/Vig= .6(Viga:B101)</p>

A-8 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
	<p>B= 25H= 25 4#4(0.83%)</p>	<p>V. Max Ppal= 1.0Ton (ENVCMIn) Sec= 1.7Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.3 Mppal=-.3 Msec=-.8T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.26 P=2.1 Mppal= 0 Msec= .6T m Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.39 P=2.3 Mppal=-.3 Msec=-.8T m Relación Mínima Col/Vig= .6(Viga:B101)</p>

A-9 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
	<p>B= 25H= 25 4#4(0.83%)</p>	<p>V. Max Ppal= 2.1Ton (ENVCMIn) Sec= 1.4Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Por Solicitaciones) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.6 P=3.2 Mppal=-1.2 Msec=-.2T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.33 P=2.1 Mppal= .7 Msec= .0T m Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.57 P=3.2 Mppal=-1.2 Msec=-.2T m Relación Mínima Col/Vig= 1.2(Viga:B101)</p>

C-2 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
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Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

C-2 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=1.0Ton (ENVCMMax) Sec= 1.7Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.0 Mppal= .3 Msec=.6T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.26 P=2.3 Mppal= .1 Msec=.6T m</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.40 P=2.0 Mppal= .3 Msec=.8T m</p> <p>Relación Mínima Col/Vig=.6(Viga:B102)</p>

C-3 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=.8Ton (ENVCMMax) Sec= 1.7Ton (ENVCMMin) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.2 Mppal= .3 Msec=.8T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.25 P=2.0 Mppal= .0 Msec=.5T m</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.38 P=2.2 Mppal= .3 Msec=.8T m</p> <p>Relación Mínima Col/Vig=.6(Viga:B102)</p>

C-4 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=.8Ton (ENVCMMax) Sec= 1.7Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=1.9 Mppal= .2 Msec=.8T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.26 P=2.1 Mppal= .0 Msec=.6T m</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.39 P=1.9 Mppal= .2 Msec=.8T m</p> <p>Relación Mínima Col/Vig=.6(Viga:B102)</p>

C-5 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
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Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

C-5 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal= .8Ton (ENVCMáx) Sec= 1.7Ton (ENVCMín) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.27 $P = 3.4 \text{ Mppal} = 0 \text{ Msec} = .6 \text{ T m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.39 $P = 2.4 \text{ Mppal} = .2 \text{ Msec} = -.8 \text{ T m}$</p> <p>Relación Mínima Col/Vig= .6 (Viga:B102)</p>

C-6 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal= .9Ton (ENVCMáx) Sec= 1.7Ton (ENVCMín) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.26 $P = 2.5 \text{ Mppal} = 0 \text{ Msec} = .6 \text{ T m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.39 $P = 2.3 \text{ Mppal} = .2 \text{ Msec} = .8 \text{ T m}$</p> <p>Relación Mínima Col/Vig= .6 (Viga:B102)</p>

C-7 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal= .9Ton (ENVCMáx) Sec= 1.7Ton (ENVCMín) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.25 $P = 2.0 \text{ Mppal} = 0 \text{ Msec} = .5 \text{ T m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.38 $P = 2.2 \text{ Mppal} = .3 \text{ Msec} = -.8 \text{ T m}$</p> <p>Relación Mínima Col/Vig= .6 (Viga:B102)</p>

C-8 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

C-8 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=1.0Ton (ENVCMMax) Sec= 1.7Ton (ENVCMMin) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.4 P=2.3 Mppal=-.3 Msec=-.8T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.26 P=2.1 Mppal=0 Msec=6T m</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.39 P=2.3 Mppal=-.3 Msec=-.8T m</p> <p>Relación Mínima Col/Vig=6(Viga:B102)</p>

C-1 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=2.0Ton (ENVCMMax) Sec= 1.4Ton (ENVCMMin) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.6 P=2.1 Mppal=1.2 Msec=2T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.37 P=2.9 Mppal=-.8 Msec=.0T m</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.57 P=2.1 Mppal=1.2 Msec=.2T m</p> <p>Relación Mínima Col/Vig=1.2(Viga:B102)</p>

C-9 Norma: NSR-10 DMO
Volumen sin nudos= 0.1 m3 Peso del refuerzo= 43.0 Kg Cuantía= 296.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=2.1Ton (ENVCMMax) Sec= 1.4Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>	<p>Máxima eficiencia = 0.6 P=2.1 Mppal=1.3 Msec=.3T m</p>	<p>F'c = 24.5 Mpa Cuantía zona superior = 0.83 Eficiencia zona superior = 0.38 P=3.0 Mppal=-.8 Msec=-.3T m</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.60 P=2.1 Mppal=1.3 Msec=.3T m</p> <p>Relación Mínima Col/Vig=1.2(Viga:B102)</p>

B-2 Norma: NSR-10 DMO
Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

B-2 Norma: NSR-10 DMO
Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
NE+4.1053 0.25(m) 11 3 c50.00c100.00 c50.00 h=1.53(m) NE+2.6365 0.00(m) 11 4 c50.00c100.00 c50.00 h=2.32(m) Base 11 13 c50.00c100.00 c50.00 h=1.00(m)	 B= 25H= 25 4#4(0.83%)	V. Max Ppal=1.7Ton (ENVCMa) Sec= .9Ton (ENVCMa) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))	 Máxima eficiencia = 0.4 P=3.0 Mppal= 8 Msec= .1T m	F'c = 24.5 Mpa Cuantía zona superior =0.83 Eficiencia zona superior = 0.06 P=3.1 Mppal= .1 Msec= .0T m Cuantía zona inferior =0.83 Eficiencia zona inferior = 0.37 P=3.0 Mppal= .8 Msec= .1T m Relación Mínima Col/Vig=.6(Viga:B201)
	 B= 25H= 25 4#4(0.83%)	V. Max Ppal=2.2Ton (ENVCMi) Sec= 1.3Ton (ENVCMi) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))	 Máxima eficiencia = 0.5 P=3.5 Mppal=1.1 Msec= .2T m	F'c = 24.5 Mpa Cuantía zona superior =0.83 Eficiencia zona superior = 0.36 P=3.3 Mppal= .8 Msec= .1T m Cuantía zona inferior =0.83 Eficiencia zona inferior = 0.52 P=3.5 Mppal=1.1 Msec= .2T m

B-3 Norma: NSR-10 DMO
Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3

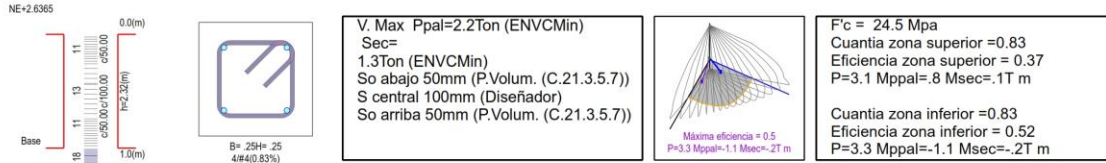
DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
NE+4.1053 0.25(m) 11 3 c50.00c100.00 c50.00 h=1.53(m) NE+2.6365 0.00(m) 11 4 c50.00c100.00 c50.00 h=2.32(m) Base 11 13 c50.00c100.00 c50.00 h=1.00(m)	 B= 25H= 25 4#4(0.83%)	V. Max Ppal=1.7Ton (ENVCMi) Sec= .9Ton (ENVCMi) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))	 Máxima eficiencia = 0.4 P=2.9 Mppal= .8 Msec= .1T m	F'c = 24.5 Mpa Cuantía zona superior =0.83 Eficiencia zona superior = 0.06 P=2.9 Mppal= .1 Msec= .0T m Cuantía zona inferior =0.83 Eficiencia zona inferior = 0.37 P=2.9 Mppal= .8 Msec= .1T m Relación Mínima Col/Vig=.6(Viga:B201)
	 B= 25H= 25 4#4(0.83%)	V. Max Ppal=2.2Ton (ENVCMi) Sec= 1.3Ton (ENVCMi) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))	 Máxima eficiencia = 0.5 P=3.4 Mppal=1.1 Msec= .2T m	F'c = 24.5 Mpa Cuantía zona superior =0.83 Eficiencia zona superior = 0.36 P=3.3 Mppal= .8 Msec= .1T m Cuantía zona inferior =0.83 Eficiencia zona inferior = 0.52 P=3.4 Mppal=1.1 Msec= .2T m

B-4 Norma: NSR-10 DMO
Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
NE+4.1053 0.25(m) 11 3 c50.00c100.00 c50.00 h=1.53(m) NE+2.6365 0.00(m) 11 4 c50.00c100.00 c50.00 h=2.32(m) Base 11 13 c50.00c100.00 c50.00 h=1.00(m)	 B= 25H= 25 4#4(0.83%)	V. Max Ppal=1.7Ton (ENVCMi) Sec= .9Ton (ENVCMa) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))	 Máxima eficiencia = 0.4 P=2.8 Mppal= .8 Msec= .1T m	F'c = 24.5 Mpa Cuantía zona superior =0.83 Eficiencia zona superior = 0.06 P=2.8 Mppal= .1 Msec= .0T m Cuantía zona inferior =0.83 Eficiencia zona inferior = 0.37 P=2.8 Mppal= .8 Msec= .1T m Relación Mínima Col/Vig=.6(Viga:B201)

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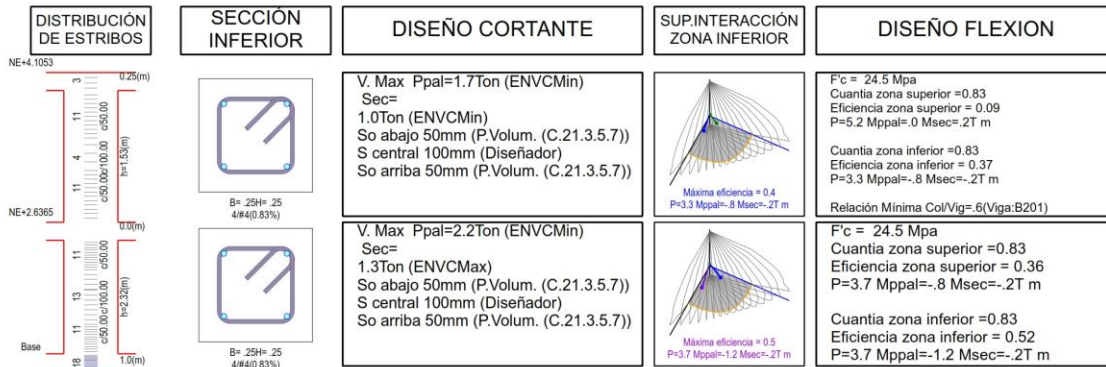
Nombre Principal	716 - HSJD
Nombre Auxiliar	JARDÍN INFANTIL
Propietario	Dirección
DC-CAD3 Licenciado a:	Diseño Arquitectónico
Norma	Contenido
	Código Nimbus
	Memorias de columnas
	NSR-10 DMO



B-B(3)

Norma: NSR-10 DMO

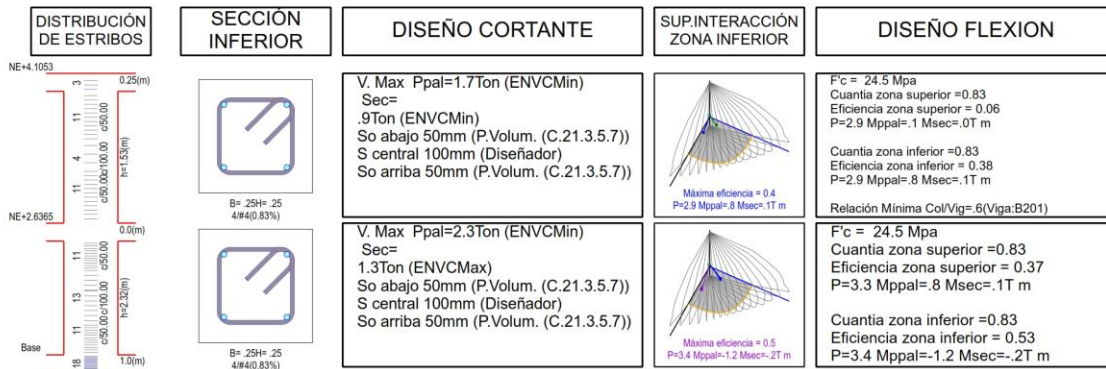
Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3



B-B(4)

Norma: NSR-10 DMO

Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3



B-B(5)

Norma: NSR-10 DMO

Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3



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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de columnas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

B-B(5)

Norma: NSR-10 DMO

Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=1.7Ton (ENVCMIn) Sec= 1.0Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.07 $P=5.5 \text{ Mppal}=0 \text{ Msec}=-.27 \text{ m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.37 $P=3.3 \text{ Mppal}=8 \text{ Msec}=.27 \text{ m}$</p> <p>Relación Mínima Col/Vig=6(Viga:B201)</p>
		<p>V. Max Ppal=2.3Ton (ENVCMIn) Sec= 1.3Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.37 $P=3.7 \text{ Mppal}=8 \text{ Msec}=.27 \text{ m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.52 $P=3.8 \text{ Mppal}=-1.2 \text{ Msec}=-.27 \text{ m}$</p>

B-1

Norma: NSR-10 DMO

Volumen sin nudos= 0.2 m3 Peso del refuerzo= 64.4 Kg Cuantía= 267.4 kg/m3

DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=.8Ton (ENVCMIn) Sec= 1.1Ton (ENVCMIn) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.14 $P=2.4 \text{ Mppal}=0 \text{ Msec}=-.37 \text{ m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.26 $P=2.4 \text{ Mppal}=-.3 \text{ Msec}=-.57 \text{ m}$</p> <p>Relación Mínima Col/Vig=1.2(Viga:B201)</p>
		<p>V. Max Ppal=2.9Ton (ENVCMIn) Sec= 1.3Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.45 $P=3.6 \text{ Mppal}=1.0 \text{ Msec}=-.17 \text{ m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.60 $P=3.8 \text{ Mppal}=-1.4 \text{ Msec}=-.27 \text{ m}$</p> <p>Relación Mínima Col/Vig=1.2(Viga:B103)</p>

B-9

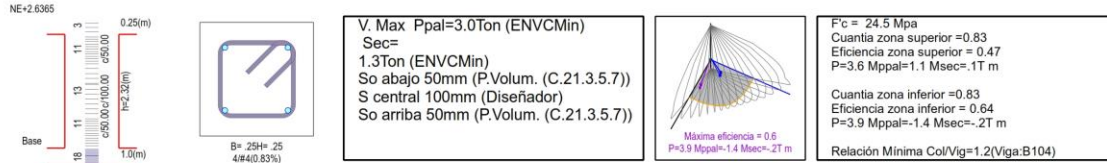
Norma: NSR-10 DMO

Volumen sin nudos= 0.2 m3 Peso del refuerzo= 64.4 Kg Cuantía= 267.4 kg/m3

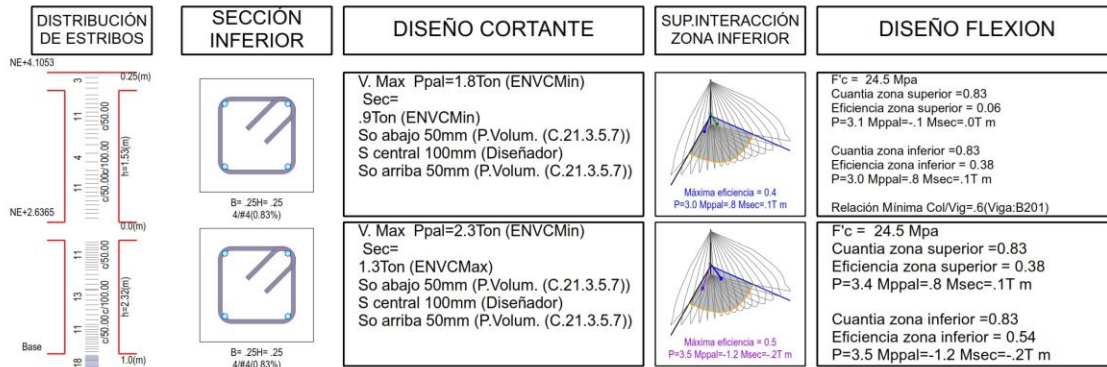
DISTRIBUCIÓN DE ESTRIBOS	SECCIÓN INFERIOR	DISEÑO CORTANTE	SUP.INTERACCIÓN ZONA INFERIOR	DISEÑO FLEXION
		<p>V. Max Ppal=.8Ton (ENVCMIn) Sec= 1.2Ton (ENVCMMax) So abajo 50mm (P.Volum. (C.21.3.5.7)) S central 100mm (Diseñador) So arriba 50mm (P.Volum. (C.21.3.5.7))</p>		<p>$F_c = 24.5 \text{ Mpa}$ Cuantía zona superior = 0.83 Eficiencia zona superior = 0.14 $P=2.5 \text{ Mppal}=0 \text{ Msec}=-.37 \text{ m}$</p> <p>Cuantía zona inferior = 0.83 Eficiencia zona inferior = 0.25 $P=2.5 \text{ Mppal}=-.5 \text{ Msec}=-.17 \text{ m}$</p> <p>Relación Mínima Col/Vig=1.2(Viga:B201)</p>

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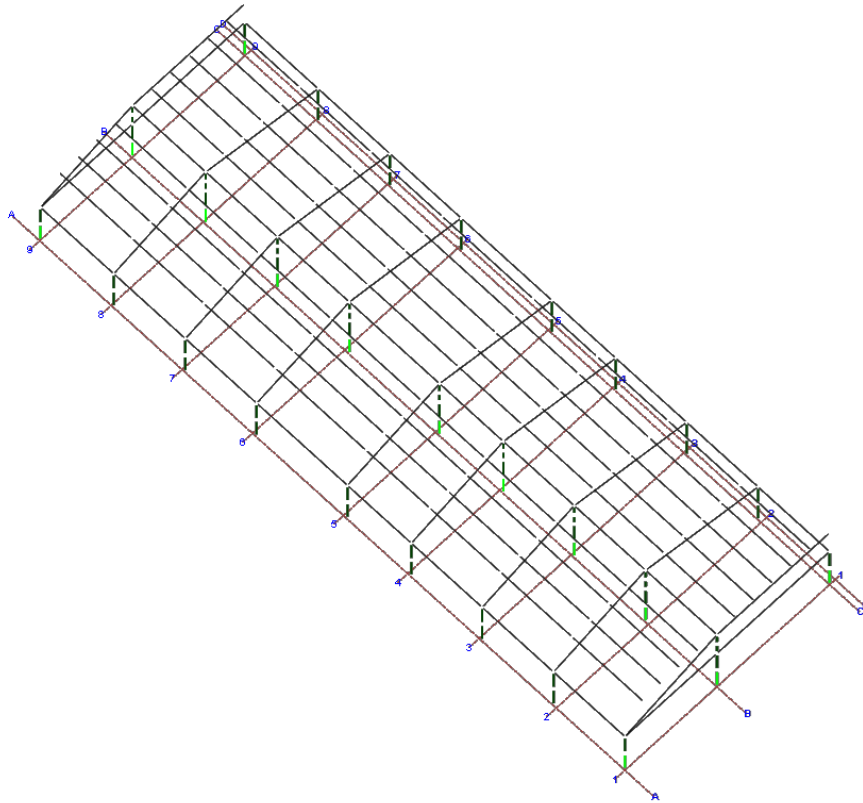
Nombre Principal	716 - HSJD
Nombre Auxiliar	JARDÍN INFANTIL
Propietario	Dirección
DC-CAD3 Licenciado a:	Diseño Arquitectónico
Norma	Contenido
	Código Nimbus
	Memorias de columnas
	NSR-10 DMO



B-8 Norma: NSR-10 DMO
Volumen sin nudos= 0.2 m3 Peso del refuerzo= 61.9 Kg Cuantía= 257.2 kg/m3



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Variables Indices De Sobre esfuerzo

Colores

Sin Diseño ☐

Insuficiente ☐

Indice >

0 ☐

0.5 ☐

0.7 ☐

0.9 ☐

1 ☐

2 ☐

☐ Incluir áreas mínimas de norma en vigas

☐ Tomar el refuerzo a compresión

Coefficientes de reducción de resistencia (≤ 1)

Calidad de diseño y construcción

Estado de la estructura

Aceptar

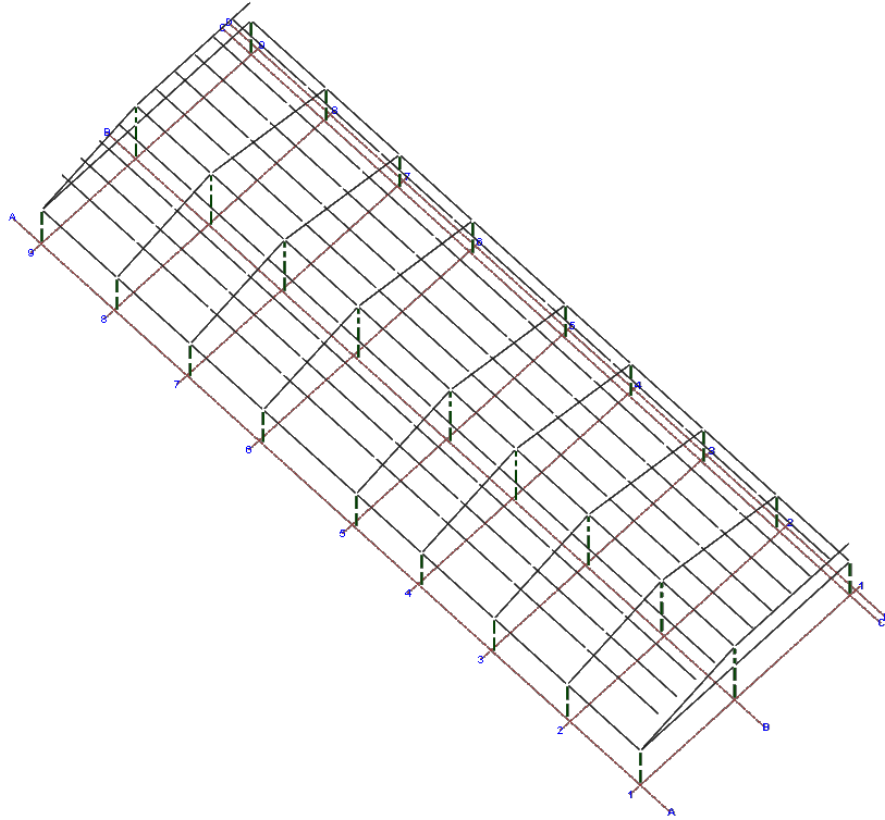
Índices de Sobre esfuerzo por Flexo-Compresión en Columnas			
Columna	Vano	Posición	Índice
A-1	Vano 1	Flexo Compresión Abajo	0.543
A-1	Vano 1	Flexo Compresión Arriba	0.329
A-2	Vano 1	Flexo Compresión Abajo	0.391
A-2	Vano 1	Flexo Compresión Arriba	0.259
A-3	Vano 1	Flexo Compresión Abajo	0.381
A-3	Vano 1	Flexo Compresión Arriba	0.245
A-4	Vano 1	Flexo Compresión Abajo	0.392
A-4	Vano 1	Flexo Compresión Arriba	0.261
A-5	Vano 1	Flexo Compresión Abajo	0.390
A-5	Vano 1	Flexo Compresión Arriba	0.270
A-6	Vano 1	Flexo Compresión Abajo	0.386
A-6	Vano 1	Flexo Compresión Arriba	0.254
A-7	Vano 1	Flexo Compresión Abajo	0.383
A-7	Vano 1	Flexo Compresión Arriba	0.248
A-8	Vano 1	Flexo Compresión Abajo	0.392
A-8	Vano 1	Flexo Compresión Arriba	0.262
A-9	Vano 1	Flexo Compresión Abajo	0.567

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A-9	Vano 1	Flexo Compresión Arriba	0.334
C-2	Vano 1	Flexo Compresión Abajo	0.395
C-2	Vano 1	Flexo Compresión Arriba	0.262
C-3	Vano 1	Flexo Compresión Abajo	0.383
C-3	Vano 1	Flexo Compresión Arriba	0.246
C-4	Vano 1	Flexo Compresión Abajo	0.394
C-4	Vano 1	Flexo Compresión Arriba	0.263
C-5	Vano 1	Flexo Compresión Abajo	0.393
C-5	Vano 1	Flexo Compresión Arriba	0.272
C-6	Vano 1	Flexo Compresión Abajo	0.388
C-6	Vano 1	Flexo Compresión Arriba	0.256
C-7	Vano 1	Flexo Compresión Abajo	0.385
C-7	Vano 1	Flexo Compresión Arriba	0.249
C-8	Vano 1	Flexo Compresión Abajo	0.391
C-8	Vano 1	Flexo Compresión Arriba	0.263
C-1	Vano 1	Flexo Compresión Abajo	0.571
C-1	Vano 1	Flexo Compresión Arriba	0.366
C-9	Vano 1	Flexo Compresión Abajo	0.601
C-9	Vano 1	Flexo Compresión Arriba	0.382
B-2	Vano 1	Flexo Compresión Abajo	0.517
B-2	Vano 1	Flexo Compresión Arriba	0.365
B-2	Vano 2	Flexo Compresión Abajo	0.369
B-2	Vano 2	Flexo Compresión Arriba	0.057
B-3	Vano 1	Flexo Compresión Abajo	0.518
B-3	Vano 1	Flexo Compresión Arriba	0.364
B-3	Vano 2	Flexo Compresión Abajo	0.369
B-3	Vano 2	Flexo Compresión Arriba	0.063
B-4	Vano 1	Flexo Compresión Abajo	0.522
B-4	Vano 1	Flexo Compresión Arriba	0.368
B-4	Vano 2	Flexo Compresión Abajo	0.372
B-4	Vano 2	Flexo Compresión Arriba	0.063
B-B(3)	Vano 1	Flexo Compresión Abajo	0.516
B-B(3)	Vano 1	Flexo Compresión Arriba	0.364
B-B(3)	Vano 2	Flexo Compresión Abajo	0.368
B-B(3)	Vano 2	Flexo Compresión Arriba	0.088
B-B(4)	Vano 1	Flexo Compresión Abajo	0.533
B-B(4)	Vano 1	Flexo Compresión Arriba	0.375
B-B(4)	Vano 2	Flexo Compresión Abajo	0.380
B-B(4)	Vano 2	Flexo Compresión Arriba	0.065
B-B(5)	Vano 1	Flexo Compresión Abajo	0.520

B-B(5)	Vano 1	Flexo Compresión Arriba	0.366
B-B(5)	Vano 2	Flexo Compresión Abajo	0.370
B-B(5)	Vano 2	Flexo Compresión Arriba	0.073
B-1	Vano 1	Flexo Compresión Abajo	0.603
B-1	Vano 1	Flexo Compresión Arriba	0.446
B-1	Vano 2	Flexo Compresión Abajo	0.259
B-1	Vano 2	Flexo Compresión Arriba	0.136
B-9	Vano 1	Flexo Compresión Abajo	0.638
B-9	Vano 1	Flexo Compresión Arriba	0.471
B-9	Vano 2	Flexo Compresión Abajo	0.246
B-9	Vano 2	Flexo Compresión Arriba	0.141
B-8	Vano 1	Flexo Compresión Abajo	0.538
B-8	Vano 1	Flexo Compresión Arriba	0.380
B-8	Vano 2	Flexo Compresión Abajo	0.385
B-8	Vano 2	Flexo Compresión Arriba	0.059

Tabla 8 Índices de sobreesfuerzo por Flexo-Compresión en Columnas



Variables Indices De Sobre esfuerzo

Colores

Sin Diseño ☐

Insuficiente ☐

Indice >

0 ☐

0.5 ☐

0.7 ☐

0.9 ☐

1 ☐

2 ☐

☐ Incluir áreas mínimas de norma en vigas

☐ Tomar el refuerzo a compresión

Coefficientes de reducción de resistencia (<=1)

Calidad de diseño y construcción

Estado de la estructura

Aceptar

Índices de Sobre esfuerzo por cortante en columnas			
Columna	Vano	Posición	Índice
A-1	Vano 1	Cortante Abajo	0.193
A-1	Vano 1	Cortante Arriba	0.193
A-2	Vano 1	Cortante Abajo	0.137
A-2	Vano 1	Cortante Arriba	0.137
A-3	Vano 1	Cortante Abajo	0.132
A-3	Vano 1	Cortante Arriba	0.132
A-4	Vano 1	Cortante Abajo	0.136
A-4	Vano 1	Cortante Arriba	0.136
A-5	Vano 1	Cortante Abajo	0.135
A-5	Vano 1	Cortante Arriba	0.135
A-6	Vano 1	Cortante Abajo	0.133
A-6	Vano 1	Cortante Arriba	0.133
A-7	Vano 1	Cortante Abajo	0.132
A-7	Vano 1	Cortante Arriba	0.132
A-8	Vano 1	Cortante Abajo	0.135
A-8	Vano 1	Cortante Arriba	0.135
A-9	Vano 1	Cortante Abajo	0.206

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A-9	Vano 1	Cortante Arriba	0.206
C-2	Vano 1	Cortante Abajo	0.138
C-2	Vano 1	Cortante Arriba	0.138
C-3	Vano 1	Cortante Abajo	0.132
C-3	Vano 1	Cortante Arriba	0.132
C-4	Vano 1	Cortante Abajo	0.137
C-4	Vano 1	Cortante Arriba	0.137
C-5	Vano 1	Cortante Abajo	0.135
C-5	Vano 1	Cortante Arriba	0.135
C-6	Vano 1	Cortante Abajo	0.134
C-6	Vano 1	Cortante Arriba	0.134
C-7	Vano 1	Cortante Abajo	0.133
C-7	Vano 1	Cortante Arriba	0.133
C-8	Vano 1	Cortante Abajo	0.136
C-8	Vano 1	Cortante Arriba	0.136
C-1	Vano 1	Cortante Abajo	0.158
C-1	Vano 1	Cortante Arriba	0.158
C-9	Vano 1	Cortante Abajo	0.167
C-9	Vano 1	Cortante Arriba	0.167
B-2	Vano 1	Cortante Abajo	0.174
B-2	Vano 1	Cortante Arriba	0.174
B-2	Vano 2	Cortante Abajo	0.134
B-2	Vano 2	Cortante Arriba	0.134
B-3	Vano 1	Cortante Abajo	0.175
B-3	Vano 1	Cortante Arriba	0.175
B-3	Vano 2	Cortante Abajo	0.131
B-3	Vano 2	Cortante Arriba	0.131
B-4	Vano 1	Cortante Abajo	0.175
B-4	Vano 1	Cortante Arriba	0.175
B-4	Vano 2	Cortante Abajo	0.131
B-4	Vano 2	Cortante Arriba	0.131
B-B(3)	Vano 1	Cortante Abajo	0.176
B-B(3)	Vano 1	Cortante Arriba	0.176
B-B(3)	Vano 2	Cortante Abajo	0.131
B-B(3)	Vano 2	Cortante Arriba	0.131
B-B(4)	Vano 1	Cortante Abajo	0.180
B-B(4)	Vano 1	Cortante Arriba	0.180
B-B(4)	Vano 2	Cortante Abajo	0.135
B-B(4)	Vano 2	Cortante Arriba	0.135
B-B(5)	Vano 1	Cortante Abajo	0.178

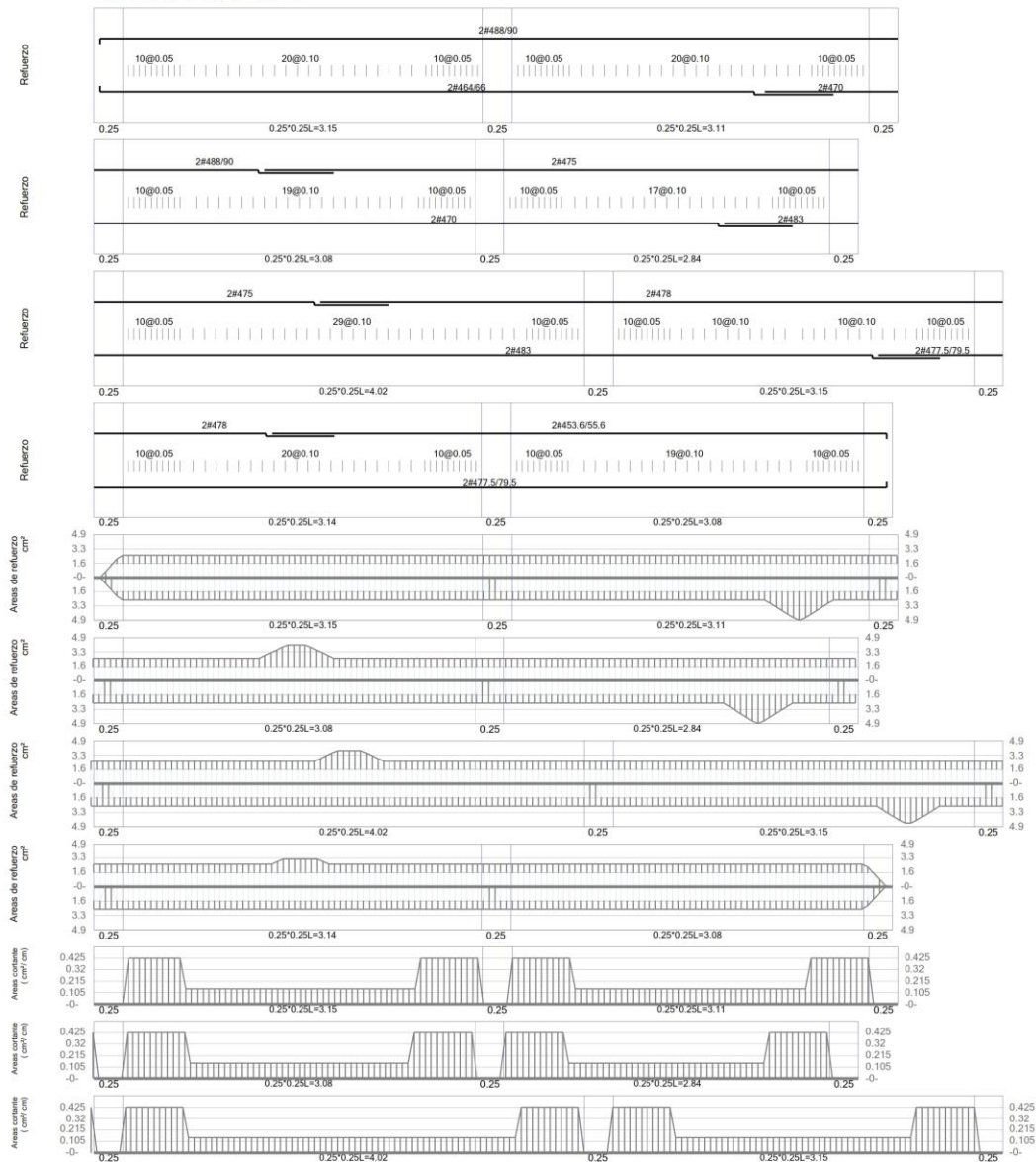
B-B(5)	Vano 1	Cortante Arriba	0.178
B-B(5)	Vano 2	Cortante Abajo	0.133
B-B(5)	Vano 2	Cortante Arriba	0.133
B-1	Vano 1	Cortante Abajo	0.225
B-1	Vano 1	Cortante Arriba	0.225
B-1	Vano 2	Cortante Abajo	0.090
B-1	Vano 2	Cortante Arriba	0.090
B-9	Vano 1	Cortante Abajo	0.238
B-9	Vano 1	Cortante Arriba	0.238
B-9	Vano 2	Cortante Abajo	0.092
B-9	Vano 2	Cortante Arriba	0.092
B-8	Vano 1	Cortante Abajo	0.182
B-8	Vano 1	Cortante Arriba	0.182
B-8	Vano 2	Cortante Abajo	0.140
B-8	Vano 2	Cortante Arriba	0.140

Tabla 9 Índices de sobreesfuerzo por Cortante en Columnas

7.11.2 Vigas

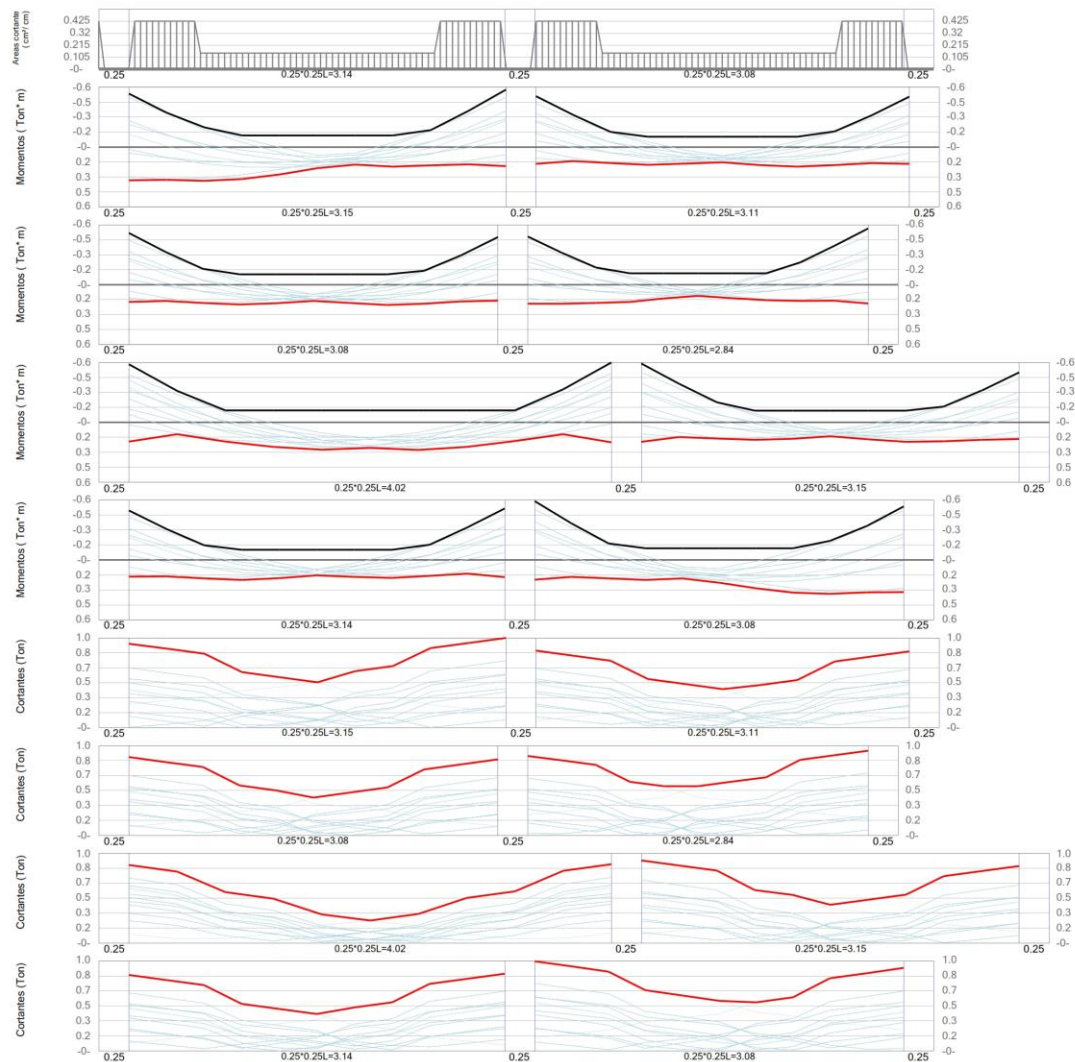
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Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de Vigas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

Eje B101 / NE+2.6365

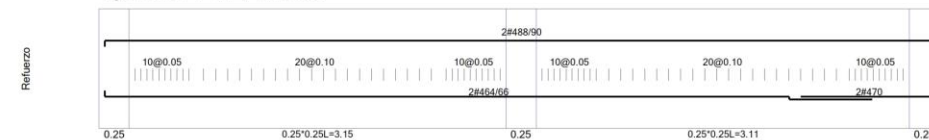


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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de Vigas
DC-CAD3 Licenciado a:	GUEVÁRA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

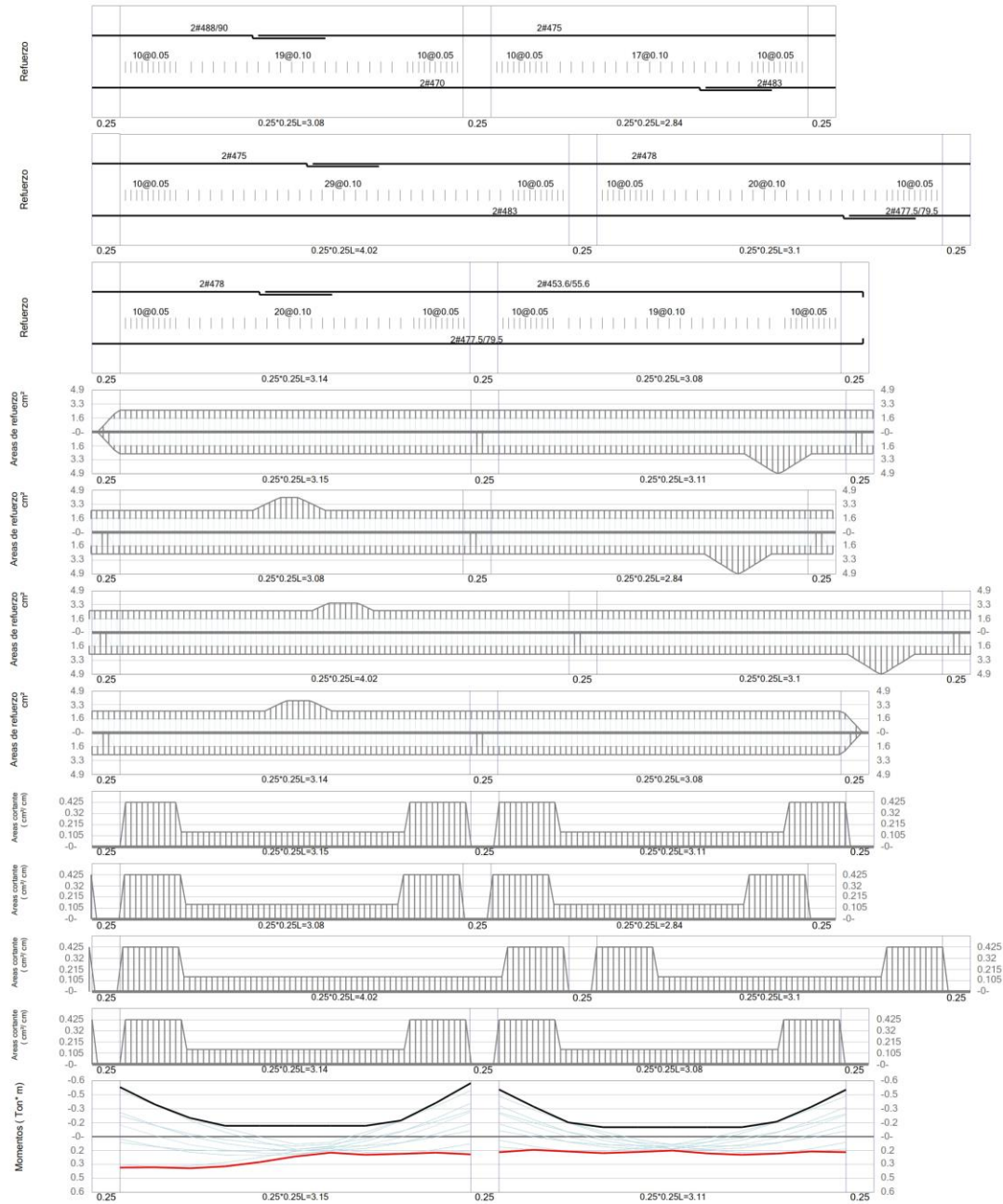


Eje B102 / NE+2.6365



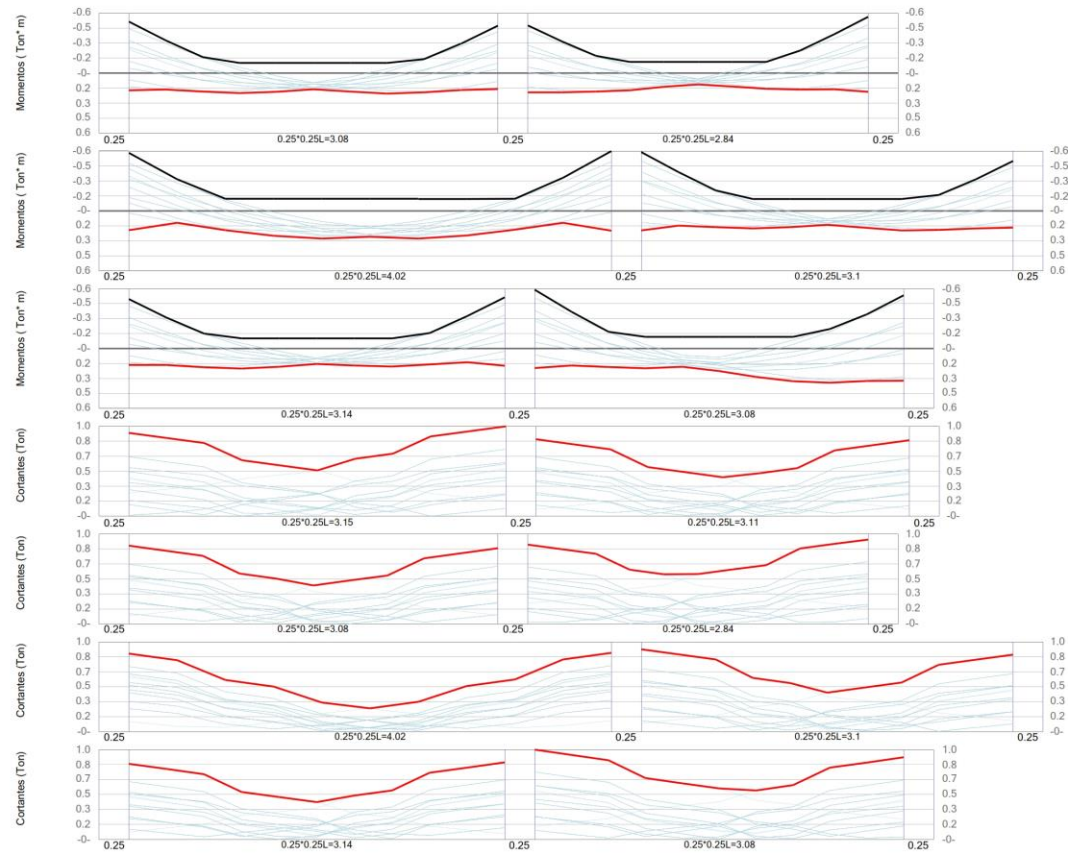
Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 142
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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de Vigas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

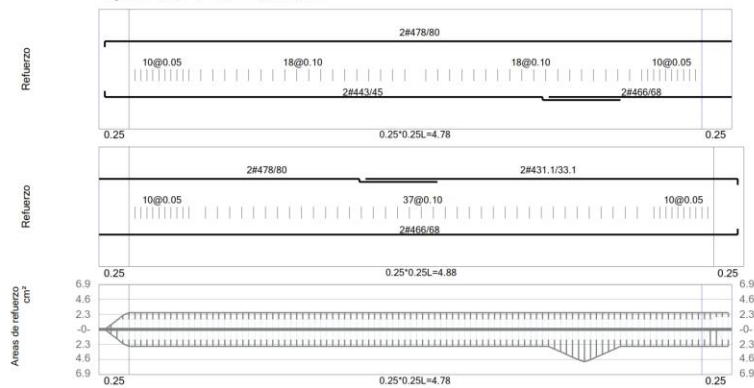


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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de Vigas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

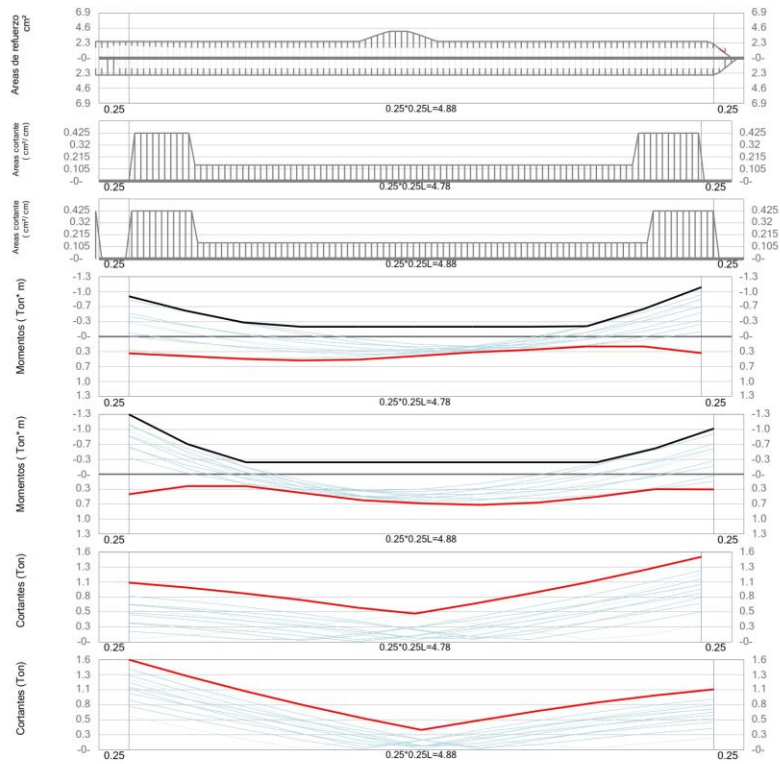


Eje B103 / NE+2.6365

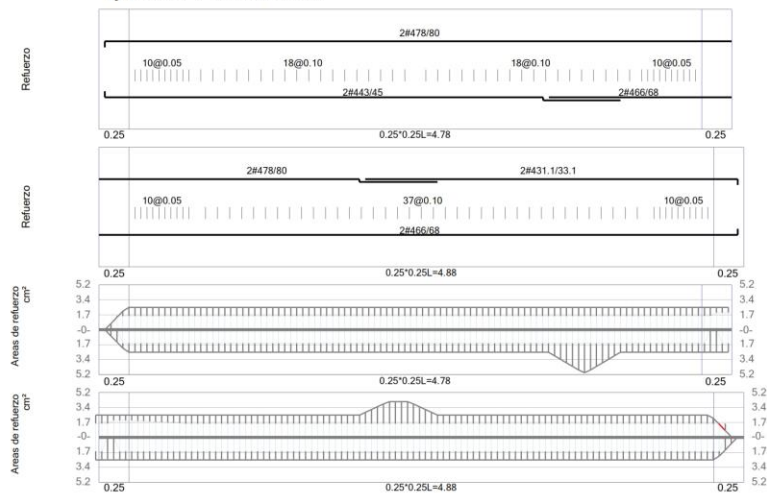


Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 144
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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de Vigas
DC-CAD3 Licenciado a:	GUEVÁRA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

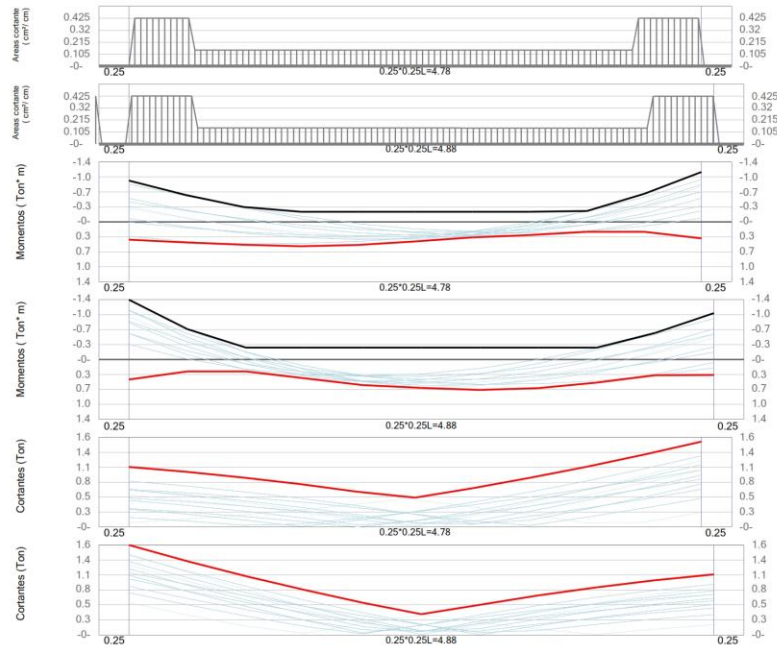


Eje B104 / NE+2.6365

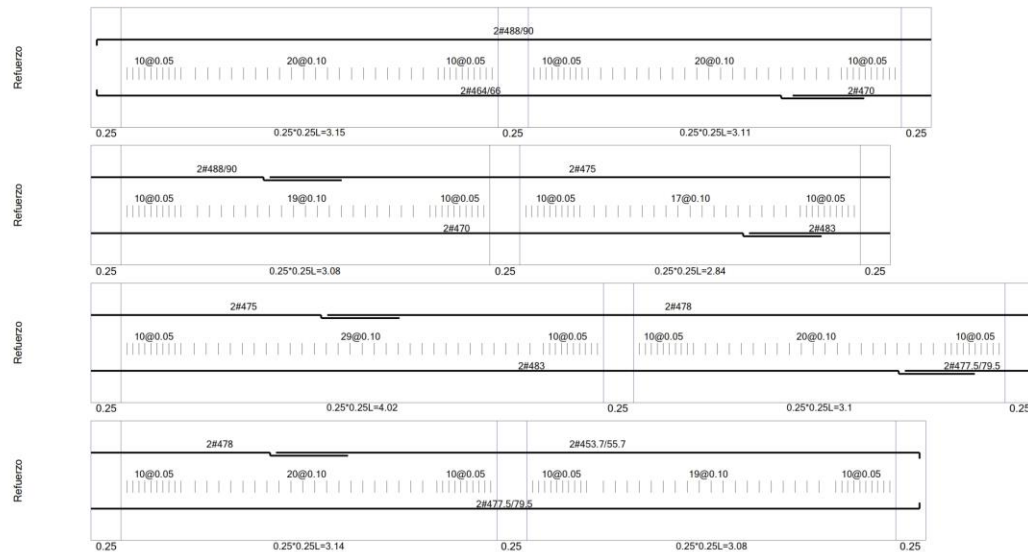


Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 145
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Nombre Principal	716 - HSJD	Dirección	BOGOTÁ D.C.
Nombre Auxiliar	JARDÍN INFANTIL	Diseño Arquitectónico	
Propietario		Contenido	Memorias de Vigas
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Código Nimbus	
Norma	NSR-10 DMO		

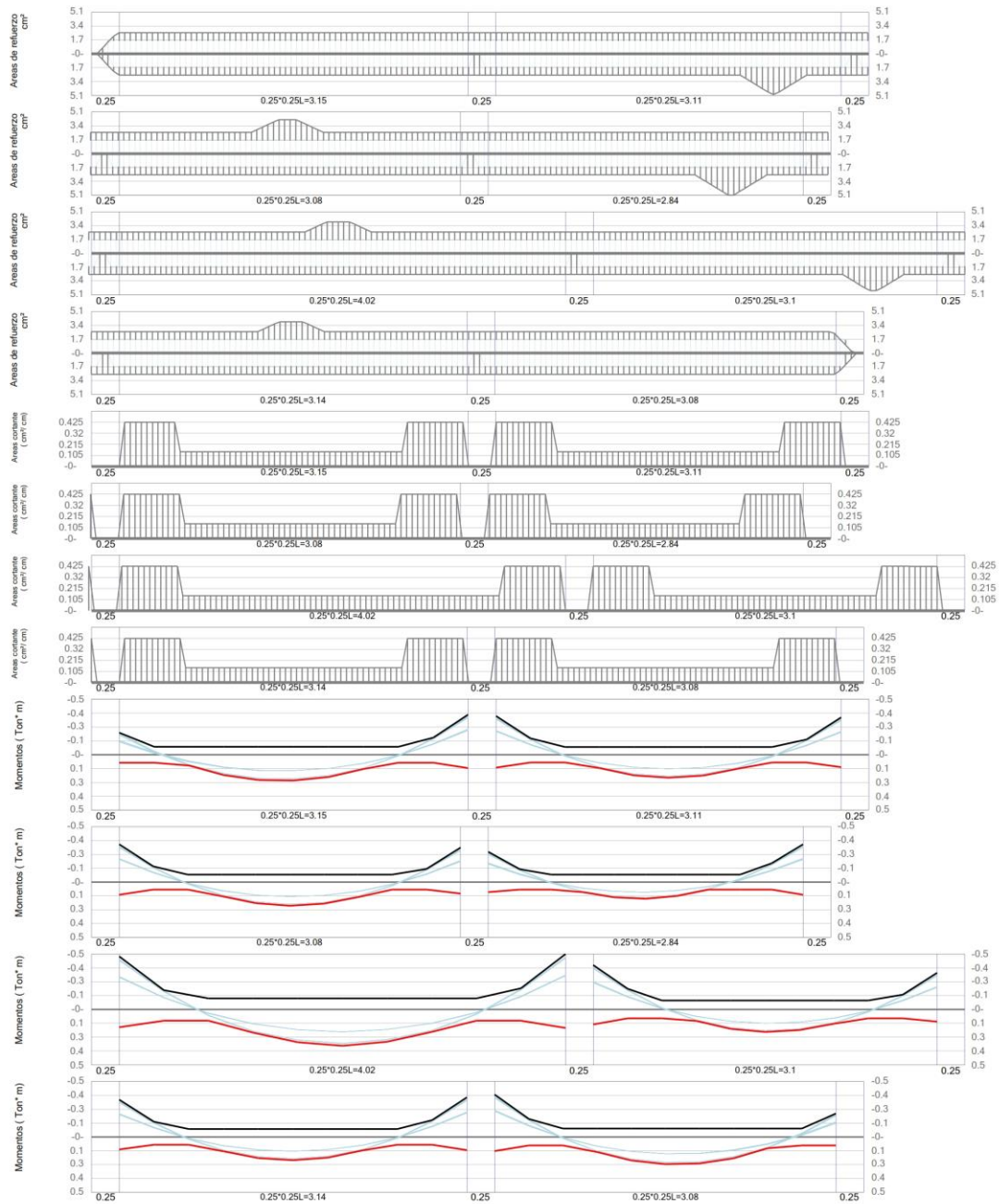


Eje B201 / NE+4.1053



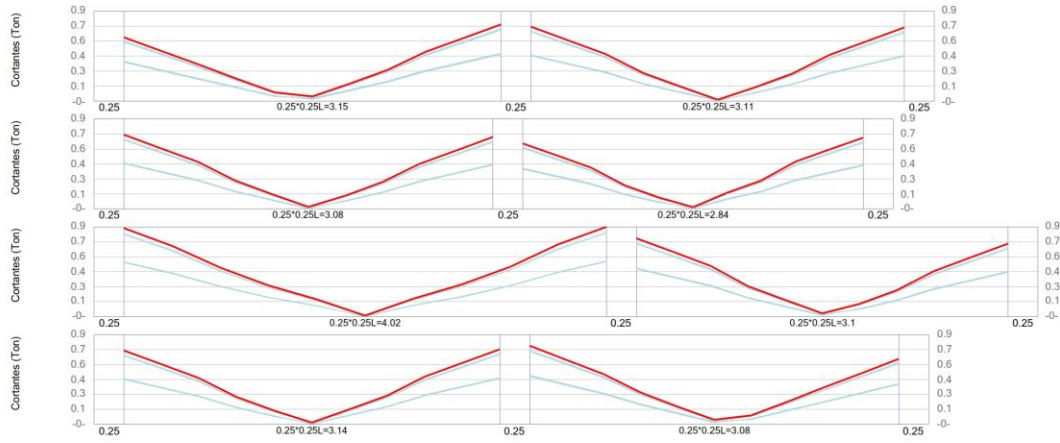
Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 146
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Nombre Principal	716 - HSJD
Nombre Auxiliar	Dirección
Propietario	Diseño Arquitectónico
DC-CAD3 Licenciado a:	Contenido
Norma	Código Nímbus

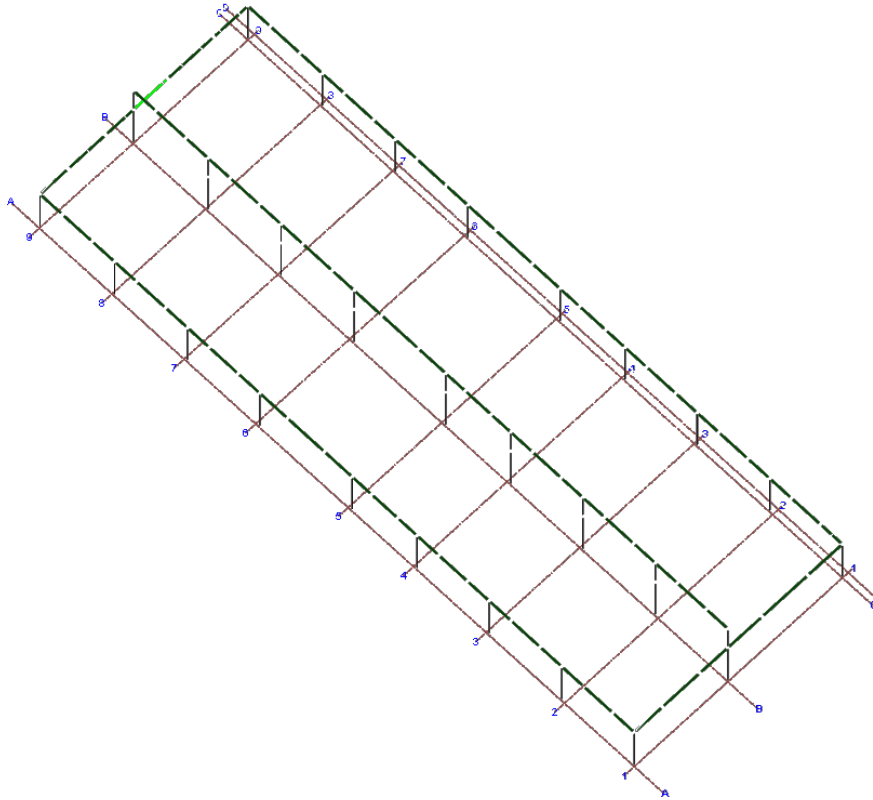


Versión: V 5.1	Fecha: 31/01/2024	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 147
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Nombre Principal	716 - HSJD	
Nombre Auxiliar	JARDÍN INFANTIL	Dirección
Propietario		Diseño Arquitectónico
DC-CAD3 Licenciado a:	GUEVARA ALVAREZ INGENIEROS LTDA.	Contenido
Norma	NSR-10 DMO	Código Nimbus
		Memorias de Vigas



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Variables Índices De Sobreesfuerzo

Colores

Sin Diseño ☐

Insuficiente ☐

Índice >

0 ☐

0.5 ☐

0.7 ☐

0.9 ☐

1 ☐

2 ☐

☐ Incluir áreas mínimas de norma en vigas

☐ Tomar el refuerzo a compresión

Coefficientes de reducción de resistencia (≤ 1)

Calidad de diseño y construcción

Estado de la estructura

Aceptar

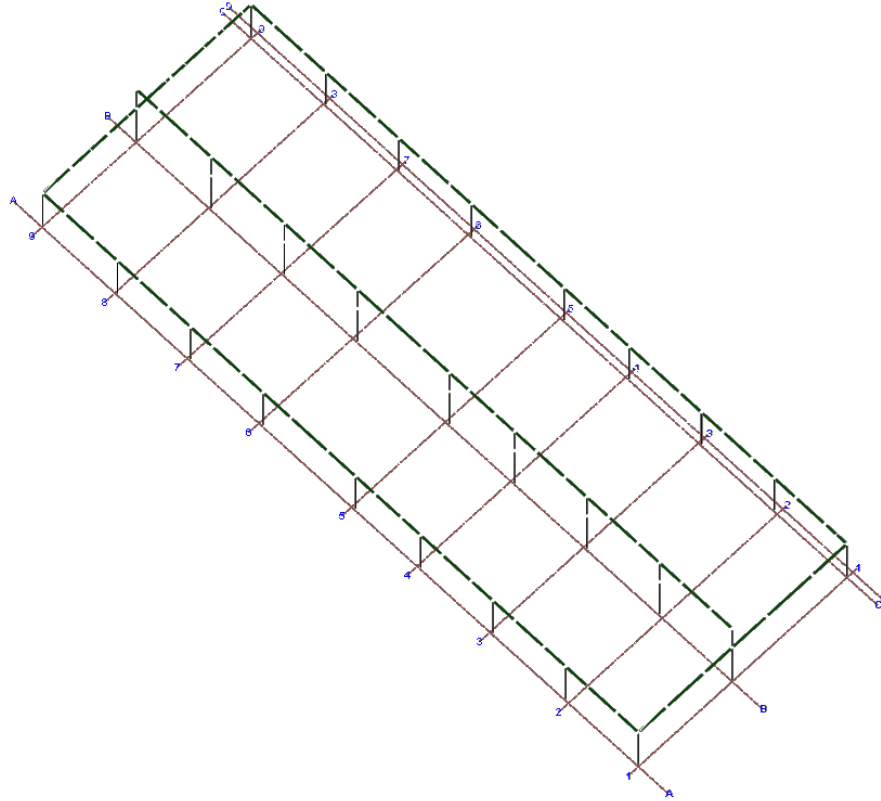
Índices de sobreesfuerzo por Momento Negativo en vigas			
Viga	Vano	Posición	Índice
Eje B101 / NE+2.6365	Vano 1	M Neg Nudo I	0.22
Eje B101 / NE+2.6365	Vano 1	M Neg centro	0.03
Eje B101 / NE+2.6365	Vano 1	M Neg Nudo J	0.23
Eje B101 / NE+2.6365	Vano 2	M Neg Nudo I	0.20
Eje B101 / NE+2.6365	Vano 2	M Neg centro	0.02
Eje B101 / NE+2.6365	Vano 2	M Neg Nudo J	0.20
Eje B101 / NE+2.6365	Vano 3	M Neg Nudo I	0.20
Eje B101 / NE+2.6365	Vano 3	M Neg centro	0.02
Eje B101 / NE+2.6365	Vano 3	M Neg Nudo J	0.19
Eje B101 / NE+2.6365	Vano 4	M Neg Nudo I	0.19
Eje B101 / NE+2.6365	Vano 4	M Neg centro	0.04
Eje B101 / NE+2.6365	Vano 4	M Neg Nudo J	0.22
Eje B101 / NE+2.6365	Vano 5	M Neg Nudo I	0.23
Eje B101 / NE+2.6365	Vano 5	M Neg centro	0.00
Eje B101 / NE+2.6365	Vano 5	M Neg Nudo J	0.24
Eje B101 / NE+2.6365	Vano 6	M Neg Nudo I	0.23
Eje B101 / NE+2.6365	Vano 6	M Neg centro	0.03

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Eje B101 / NE+2.6365	Vano 6	M Neg Nudo J	0.20
Eje B101 / NE+2.6365	Vano 7	M Neg Nudo I	0.20
Eje B101 / NE+2.6365	Vano 7	M Neg centro	0.02
Eje B101 / NE+2.6365	Vano 7	M Neg Nudo J	0.20
Eje B101 / NE+2.6365	Vano 8	M Neg Nudo I	0.23
Eje B101 / NE+2.6365	Vano 8	M Neg centro	0.03
Eje B101 / NE+2.6365	Vano 8	M Neg Nudo J	0.21
Eje B102 / NE+2.6365	Vano 1	M Neg Nudo I	0.22
Eje B102 / NE+2.6365	Vano 1	M Neg centro	0.04
Eje B102 / NE+2.6365	Vano 1	M Neg Nudo J	0.23
Eje B102 / NE+2.6365	Vano 2	M Neg Nudo I	0.20
Eje B102 / NE+2.6365	Vano 2	M Neg centro	0.02
Eje B102 / NE+2.6365	Vano 2	M Neg Nudo J	0.20
Eje B102 / NE+2.6365	Vano 3	M Neg Nudo I	0.20
Eje B102 / NE+2.6365	Vano 3	M Neg centro	0.02
Eje B102 / NE+2.6365	Vano 3	M Neg Nudo J	0.19
Eje B102 / NE+2.6365	Vano 4	M Neg Nudo I	0.19
Eje B102 / NE+2.6365	Vano 4	M Neg centro	0.04
Eje B102 / NE+2.6365	Vano 4	M Neg Nudo J	0.22
Eje B102 / NE+2.6365	Vano 5	M Neg Nudo I	0.23
Eje B102 / NE+2.6365	Vano 5	M Neg centro	0.00
Eje B102 / NE+2.6365	Vano 5	M Neg Nudo J	0.24
Eje B102 / NE+2.6365	Vano 6	M Neg Nudo I	0.23
Eje B102 / NE+2.6365	Vano 6	M Neg centro	0.03
Eje B102 / NE+2.6365	Vano 6	M Neg Nudo J	0.20
Eje B102 / NE+2.6365	Vano 7	M Neg Nudo I	0.19
Eje B102 / NE+2.6365	Vano 7	M Neg centro	0.02
Eje B102 / NE+2.6365	Vano 7	M Neg Nudo J	0.20
Eje B102 / NE+2.6365	Vano 8	M Neg Nudo I	0.23
Eje B102 / NE+2.6365	Vano 8	M Neg centro	0.03
Eje B102 / NE+2.6365	Vano 8	M Neg Nudo J	0.21
Eje B103 / NE+2.6365	Vano 1	M Neg Nudo I	0.35
Eje B103 / NE+2.6365	Vano 1	M Neg centro	0.04
Eje B103 / NE+2.6365	Vano 1	M Neg Nudo J	0.41
Eje B103 / NE+2.6365	Vano 2	M Neg Nudo I	0.49
Eje B103 / NE+2.6365	Vano 2	M Neg centro	0.00
Eje B103 / NE+2.6365	Vano 2	M Neg Nudo J	0.40
Eje B104 / NE+2.6365	Vano 1	M Neg Nudo I	0.37
Eje B104 / NE+2.6365	Vano 1	M Neg centro	0.05
Eje B104 / NE+2.6365	Vano 1	M Neg Nudo J	0.42

Eje B104 / NE+2.6365	Vano 2	M Neg Nudo I	0.50
Eje B104 / NE+2.6365	Vano 2	M Neg centro	0.00
Eje B104 / NE+2.6365	Vano 2	M Neg Nudo J	0.41
Eje B201 / NE+4.1053	Vano 1	M Neg Nudo I	0.08
Eje B201 / NE+4.1053	Vano 1	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 1	M Neg Nudo J	0.14
Eje B201 / NE+4.1053	Vano 2	M Neg Nudo I	0.14
Eje B201 / NE+4.1053	Vano 2	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 2	M Neg Nudo J	0.13
Eje B201 / NE+4.1053	Vano 3	M Neg Nudo I	0.13
Eje B201 / NE+4.1053	Vano 3	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 3	M Neg Nudo J	0.12
Eje B201 / NE+4.1053	Vano 4	M Neg Nudo I	0.11
Eje B201 / NE+4.1053	Vano 4	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 4	M Neg Nudo J	0.13
Eje B201 / NE+4.1053	Vano 5	M Neg Nudo I	0.19
Eje B201 / NE+4.1053	Vano 5	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 5	M Neg Nudo J	0.20
Eje B201 / NE+4.1053	Vano 6	M Neg Nudo I	0.16
Eje B201 / NE+4.1053	Vano 6	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 6	M Neg Nudo J	0.13
Eje B201 / NE+4.1053	Vano 7	M Neg Nudo I	0.13
Eje B201 / NE+4.1053	Vano 7	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 7	M Neg Nudo J	0.14
Eje B201 / NE+4.1053	Vano 8	M Neg Nudo I	0.15
Eje B201 / NE+4.1053	Vano 8	M Neg centro	0.00
Eje B201 / NE+4.1053	Vano 8	M Neg Nudo J	0.09

Tabla 10 Índices de sobreesfuerzo por Momento Negativo en Vigas.



Variables Índices De Sobre esfuerzo

Colores

Sin Diseño ☐

Insuficiente ☐

Índice >

0 ☐

0.5 ☐

0.7 ☐

0.9 ☐

1 ☐

2 ☐

☐ Incluir áreas mínimas de norma en vigas

☐ Tomar el refuerzo a compresión

Coefficientes de reducción de resistencia (≤ 1)

Calidad de diseño y construcción

Estado de la estructura

Aceptar

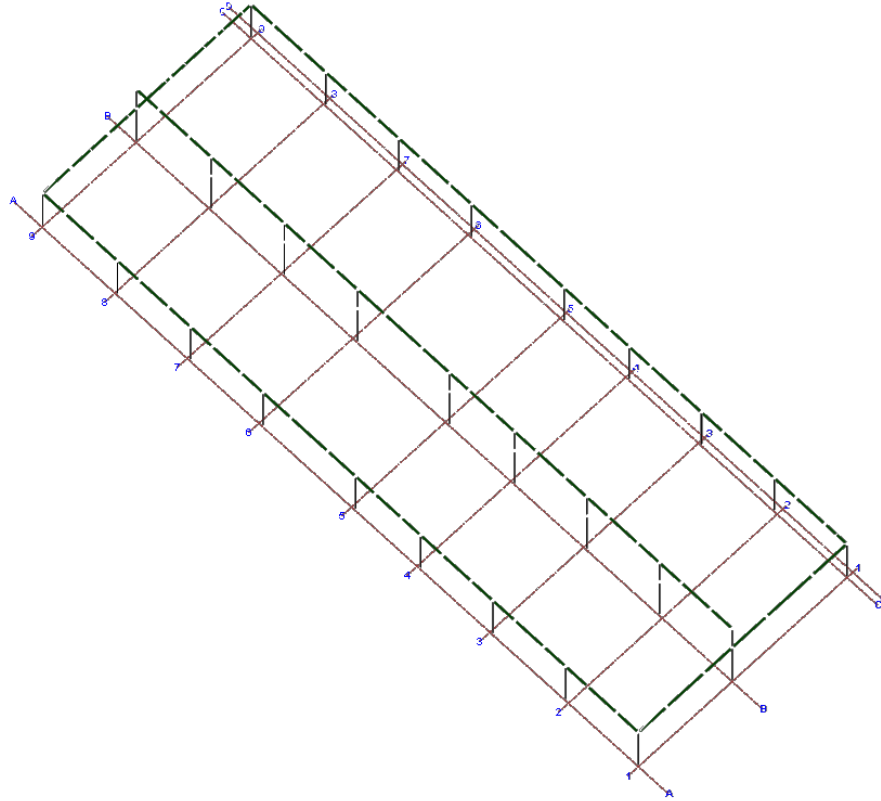
Índices de sobre esfuerzo por Momento Positivo en vigas			
Viga	Vano	Posición	Índice
Eje B101 / NE+2.6365	Vano 1	M Pos Nudo I	0.14
Eje B101 / NE+2.6365	Vano 1	M Pos centro	0.13
Eje B101 / NE+2.6365	Vano 1	M Pos Nudo J	0.07
Eje B101 / NE+2.6365	Vano 2	M Pos Nudo I	0.06
Eje B101 / NE+2.6365	Vano 2	M Pos centro	0.08
Eje B101 / NE+2.6365	Vano 2	M Pos Nudo J	0.06
Eje B101 / NE+2.6365	Vano 3	M Pos Nudo I	0.07
Eje B101 / NE+2.6365	Vano 3	M Pos centro	0.08
Eje B101 / NE+2.6365	Vano 3	M Pos Nudo J	0.08
Eje B101 / NE+2.6365	Vano 4	M Pos Nudo I	0.08
Eje B101 / NE+2.6365	Vano 4	M Pos centro	0.07
Eje B101 / NE+2.6365	Vano 4	M Pos Nudo J	0.06
Eje B101 / NE+2.6365	Vano 5	M Pos Nudo I	0.08
Eje B101 / NE+2.6365	Vano 5	M Pos centro	0.11
Eje B101 / NE+2.6365	Vano 5	M Pos Nudo J	0.07
Eje B101 / NE+2.6365	Vano 6	M Pos Nudo I	0.06
Eje B101 / NE+2.6365	Vano 6	M Pos centro	0.08
Eje B101 / NE+2.6365	Vano 6	M Pos Nudo J	0.06

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Eje B101 / NE+2.6365	Vano 7	M Pos Nudo I	0.07
Eje B101 / NE+2.6365	Vano 7	M Pos centro	0.08
Eje B101 / NE+2.6365	Vano 7	M Pos Nudo J	0.06
Eje B101 / NE+2.6365	Vano 8	M Pos Nudo I	0.07
Eje B101 / NE+2.6365	Vano 8	M Pos centro	0.13
Eje B101 / NE+2.6365	Vano 8	M Pos Nudo J	0.13
Eje B102 / NE+2.6365	Vano 1	M Pos Nudo I	0.14
Eje B102 / NE+2.6365	Vano 1	M Pos centro	0.13
Eje B102 / NE+2.6365	Vano 1	M Pos Nudo J	0.07
Eje B102 / NE+2.6365	Vano 2	M Pos Nudo I	0.06
Eje B102 / NE+2.6365	Vano 2	M Pos centro	0.08
Eje B102 / NE+2.6365	Vano 2	M Pos Nudo J	0.06
Eje B102 / NE+2.6365	Vano 3	M Pos Nudo I	0.07
Eje B102 / NE+2.6365	Vano 3	M Pos centro	0.08
Eje B102 / NE+2.6365	Vano 3	M Pos Nudo J	0.08
Eje B102 / NE+2.6365	Vano 4	M Pos Nudo I	0.08
Eje B102 / NE+2.6365	Vano 4	M Pos centro	0.07
Eje B102 / NE+2.6365	Vano 4	M Pos Nudo J	0.06
Eje B102 / NE+2.6365	Vano 5	M Pos Nudo I	0.08
Eje B102 / NE+2.6365	Vano 5	M Pos centro	0.11
Eje B102 / NE+2.6365	Vano 5	M Pos Nudo J	0.07
Eje B102 / NE+2.6365	Vano 6	M Pos Nudo I	0.06
Eje B102 / NE+2.6365	Vano 6	M Pos centro	0.08
Eje B102 / NE+2.6365	Vano 6	M Pos Nudo J	0.06
Eje B102 / NE+2.6365	Vano 7	M Pos Nudo I	0.07
Eje B102 / NE+2.6365	Vano 7	M Pos centro	0.08
Eje B102 / NE+2.6365	Vano 7	M Pos Nudo J	0.06
Eje B102 / NE+2.6365	Vano 8	M Pos Nudo I	0.07
Eje B102 / NE+2.6365	Vano 8	M Pos centro	0.13
Eje B102 / NE+2.6365	Vano 8	M Pos Nudo J	0.13
Eje B103 / NE+2.6365	Vano 1	M Pos Nudo I	0.18
Eje B103 / NE+2.6365	Vano 1	M Pos centro	0.20
Eje B103 / NE+2.6365	Vano 1	M Pos Nudo J	0.06
Eje B103 / NE+2.6365	Vano 2	M Pos Nudo I	0.08
Eje B103 / NE+2.6365	Vano 2	M Pos centro	0.25
Eje B103 / NE+2.6365	Vano 2	M Pos Nudo J	0.19
Eje B104 / NE+2.6365	Vano 1	M Pos Nudo I	0.19
Eje B104 / NE+2.6365	Vano 1	M Pos centro	0.20
Eje B104 / NE+2.6365	Vano 1	M Pos Nudo J	0.06
Eje B104 / NE+2.6365	Vano 2	M Pos Nudo I	0.08

Eje B104 / NE+2.6365	Vano 2	M Pos centro	0.26
Eje B104 / NE+2.6365	Vano 2	M Pos Nudo J	0.19
Eje B201 / NE+4.1053	Vano 1	M Pos Nudo I	0.04
Eje B201 / NE+4.1053	Vano 1	M Pos centro	0.09
Eje B201 / NE+4.1053	Vano 1	M Pos Nudo J	0.01
Eje B201 / NE+4.1053	Vano 2	M Pos Nudo I	0.01
Eje B201 / NE+4.1053	Vano 2	M Pos centro	0.08
Eje B201 / NE+4.1053	Vano 2	M Pos Nudo J	0.01
Eje B201 / NE+4.1053	Vano 3	M Pos Nudo I	0.01
Eje B201 / NE+4.1053	Vano 3	M Pos centro	0.08
Eje B201 / NE+4.1053	Vano 3	M Pos Nudo J	0.01
Eje B201 / NE+4.1053	Vano 4	M Pos Nudo I	0.00
Eje B201 / NE+4.1053	Vano 4	M Pos centro	0.06
Eje B201 / NE+4.1053	Vano 4	M Pos Nudo J	0.00
Eje B201 / NE+4.1053	Vano 5	M Pos Nudo I	0.02
Eje B201 / NE+4.1053	Vano 5	M Pos centro	0.13
Eje B201 / NE+4.1053	Vano 5	M Pos Nudo J	0.02
Eje B201 / NE+4.1053	Vano 6	M Pos Nudo I	0.00
Eje B201 / NE+4.1053	Vano 6	M Pos centro	0.08
Eje B201 / NE+4.1053	Vano 6	M Pos Nudo J	0.01
Eje B201 / NE+4.1053	Vano 7	M Pos Nudo I	0.01
Eje B201 / NE+4.1053	Vano 7	M Pos centro	0.08
Eje B201 / NE+4.1053	Vano 7	M Pos Nudo J	0.01
Eje B201 / NE+4.1053	Vano 8	M Pos Nudo I	0.01
Eje B201 / NE+4.1053	Vano 8	M Pos centro	0.10
Eje B201 / NE+4.1053	Vano 8	M Pos Nudo J	0.04

Tabla 11 Índices de sobreesfuerzo por Momento Positivo en Vigas.



Variables Índices De Sobreesfuerzo

Colores

Sin Diseño ☐

Insuficiente ☐

Índice >

0 ☐

0.5 ☐

0.7 ☐

0.9 ☐

1 ☐

2 ☐

☐ Incluir áreas mínimas de norma en vigas

☐ Tomar el refuerzo a compresión

Coefficientes de reducción de resistencia (≤ 1)

Calidad de diseño y construcción

Estado de la estructura

Aceptar

Índices de sobreesfuerzo por Cortante en vigas			
Viga	Vano	Posición	Índice
Eje B101 / NE+2.6365	Vano 1	Fuerza Cortante Nudo I	0.06
Eje B101 / NE+2.6365	Vano 1	Fuerza Cortante centro	0.05
Eje B101 / NE+2.6365	Vano 1	Fuerza Cortante Nudo J	0.06
Eje B101 / NE+2.6365	Vano 2	Fuerza Cortante Nudo I	0.05
Eje B101 / NE+2.6365	Vano 2	Fuerza Cortante centro	0.04
Eje B101 / NE+2.6365	Vano 2	Fuerza Cortante Nudo J	0.05
Eje B101 / NE+2.6365	Vano 3	Fuerza Cortante Nudo I	0.05
Eje B101 / NE+2.6365	Vano 3	Fuerza Cortante centro	0.04
Eje B101 / NE+2.6365	Vano 3	Fuerza Cortante Nudo J	0.05
Eje B101 / NE+2.6365	Vano 4	Fuerza Cortante Nudo I	0.06
Eje B101 / NE+2.6365	Vano 4	Fuerza Cortante centro	0.05
Eje B101 / NE+2.6365	Vano 4	Fuerza Cortante Nudo J	0.06
Eje B101 / NE+2.6365	Vano 5	Fuerza Cortante Nudo I	0.04
Eje B101 / NE+2.6365	Vano 5	Fuerza Cortante centro	0.04
Eje B101 / NE+2.6365	Vano 5	Fuerza Cortante Nudo J	0.04
Eje B101 / NE+2.6365	Vano 6	Fuerza Cortante Nudo I	0.06
Eje B101 / NE+2.6365	Vano 6	Fuerza Cortante centro	0.04
Eje B101 / NE+2.6365	Vano 6	Fuerza Cortante Nudo J	0.05
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Eje B101 / NE+2.6365	Vano 7	Fuerza Cortante Nudo I	0.05
Eje B101 / NE+2.6365	Vano 7	Fuerza Cortante centro	0.04
Eje B101 / NE+2.6365	Vano 7	Fuerza Cortante Nudo J	0.05
Eje B101 / NE+2.6365	Vano 8	Fuerza Cortante Nudo I	0.06
Eje B101 / NE+2.6365	Vano 8	Fuerza Cortante centro	0.05
Eje B101 / NE+2.6365	Vano 8	Fuerza Cortante Nudo J	0.06
Eje B102 / NE+2.6365	Vano 1	Fuerza Cortante Nudo I	0.06
Eje B102 / NE+2.6365	Vano 1	Fuerza Cortante centro	0.05
Eje B102 / NE+2.6365	Vano 1	Fuerza Cortante Nudo J	0.06
Eje B102 / NE+2.6365	Vano 2	Fuerza Cortante Nudo I	0.05
Eje B102 / NE+2.6365	Vano 2	Fuerza Cortante centro	0.04
Eje B102 / NE+2.6365	Vano 2	Fuerza Cortante Nudo J	0.05
Eje B102 / NE+2.6365	Vano 3	Fuerza Cortante Nudo I	0.05
Eje B102 / NE+2.6365	Vano 3	Fuerza Cortante centro	0.04
Eje B102 / NE+2.6365	Vano 3	Fuerza Cortante Nudo J	0.05
Eje B102 / NE+2.6365	Vano 4	Fuerza Cortante Nudo I	0.06
Eje B102 / NE+2.6365	Vano 4	Fuerza Cortante centro	0.05
Eje B102 / NE+2.6365	Vano 4	Fuerza Cortante Nudo J	0.06
Eje B102 / NE+2.6365	Vano 5	Fuerza Cortante Nudo I	0.04
Eje B102 / NE+2.6365	Vano 5	Fuerza Cortante centro	0.04
Eje B102 / NE+2.6365	Vano 5	Fuerza Cortante Nudo J	0.04
Eje B102 / NE+2.6365	Vano 6	Fuerza Cortante Nudo I	0.06
Eje B102 / NE+2.6365	Vano 6	Fuerza Cortante centro	0.04
Eje B102 / NE+2.6365	Vano 6	Fuerza Cortante Nudo J	0.05
Eje B102 / NE+2.6365	Vano 7	Fuerza Cortante Nudo I	0.05
Eje B102 / NE+2.6365	Vano 7	Fuerza Cortante centro	0.04
Eje B102 / NE+2.6365	Vano 7	Fuerza Cortante Nudo J	0.05
Eje B102 / NE+2.6365	Vano 8	Fuerza Cortante Nudo I	0.06
Eje B102 / NE+2.6365	Vano 8	Fuerza Cortante centro	0.05
Eje B102 / NE+2.6365	Vano 8	Fuerza Cortante Nudo J	0.06
Eje B103 / NE+2.6365	Vano 1	Fuerza Cortante Nudo I	0.06
Eje B103 / NE+2.6365	Vano 1	Fuerza Cortante centro	0.06
Eje B103 / NE+2.6365	Vano 1	Fuerza Cortante Nudo J	0.08
Eje B103 / NE+2.6365	Vano 2	Fuerza Cortante Nudo I	0.07
Eje B103 / NE+2.6365	Vano 2	Fuerza Cortante centro	0.06
Eje B103 / NE+2.6365	Vano 2	Fuerza Cortante Nudo J	0.06
Eje B104 / NE+2.6365	Vano 1	Fuerza Cortante Nudo I	0.06
Eje B104 / NE+2.6365	Vano 1	Fuerza Cortante centro	0.06
Eje B104 / NE+2.6365	Vano 1	Fuerza Cortante Nudo J	0.08
Eje B104 / NE+2.6365	Vano 2	Fuerza Cortante Nudo I	0.08

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Eje B104 / NE+2.6365	Vano 2	Fuerza Cortante centro	0.06
Eje B104 / NE+2.6365	Vano 2	Fuerza Cortante Nudo J	0.06
Eje B201 / NE+4.1053	Vano 1	Fuerza Cortante Nudo I	0.03
Eje B201 / NE+4.1053	Vano 1	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 1	Fuerza Cortante Nudo J	0.03
Eje B201 / NE+4.1053	Vano 2	Fuerza Cortante Nudo I	0.03
Eje B201 / NE+4.1053	Vano 2	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 2	Fuerza Cortante Nudo J	0.03
Eje B201 / NE+4.1053	Vano 3	Fuerza Cortante Nudo I	0.03
Eje B201 / NE+4.1053	Vano 3	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 3	Fuerza Cortante Nudo J	0.03
Eje B201 / NE+4.1053	Vano 4	Fuerza Cortante Nudo I	0.03
Eje B201 / NE+4.1053	Vano 4	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 4	Fuerza Cortante Nudo J	0.03
Eje B201 / NE+4.1053	Vano 5	Fuerza Cortante Nudo I	0.03
Eje B201 / NE+4.1053	Vano 5	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 5	Fuerza Cortante Nudo J	0.04
Eje B201 / NE+4.1053	Vano 6	Fuerza Cortante Nudo I	0.04
Eje B201 / NE+4.1053	Vano 6	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 6	Fuerza Cortante Nudo J	0.03
Eje B201 / NE+4.1053	Vano 7	Fuerza Cortante Nudo I	0.03
Eje B201 / NE+4.1053	Vano 7	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 7	Fuerza Cortante Nudo J	0.03
Eje B201 / NE+4.1053	Vano 8	Fuerza Cortante Nudo I	0.04
Eje B201 / NE+4.1053	Vano 8	Fuerza Cortante centro	0.02
Eje B201 / NE+4.1053	Vano 8	Fuerza Cortante Nudo J	0.03

Tabla 12 Índices de sobreesfuerzo por Cortante en Vigas.

7.12 Revisión Elementos de Cubierta

De acuerdo con la información fotográfica presentada como parte del levantamiento de la estructura que conforman la cubierta de la edificación, se pueden observar deformaciones y fallas en los elementos de madera, lo cual implica un sobre esfuerzo de los elementos y una posible afectación por agentes medioambientales.



Estado Actual elementos de Cubierta.

No se observan conexiones entre elementos de cubierta en madera y estructura en concreto, los elementos actualmente se encuentran simplemente apoyados, adicionalmente se presenta perdidas de sección en elementos



Estado Actual elementos de Cubierta.

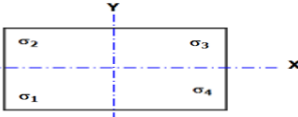
Se observan grandes deformaciones y fallas en las secciones de los elementos de soporte que conforman la estructura principal de cubierta

Lo anterior sumado a la nula existencia de elementos de conexión que permitan un amarre real entre la estructura de cubierta y los elementos de resistencia sísmica como son las vigas y columnas de la estructura, permiten concluir la necesidad de intervención de estos elementos, lo anterior debe ser verificado no solo desde el punto de vista estructural si no como parte del proyecto de adecuación funcional de la edificación.

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7.13 Revisión Cimentación.

De acuerdo con la información obtenida de los levantamientos realizados se presenta zapatas centradas de 1.0x1.0 m con 0.30 m de altura y 0.30 m de acartelamiento, estos elementos se encuentran vinculados por una viga de amarre en ambas direcciones.

ZAPATA: Z-1		CANTIDAD: 27		
		GRAVIT.	GRAVIT.+SISMO	
Carga de la Columna:		2.29 T	1.57 T	
Momento Mxs:		0.06 T.m	0.04 T.m	
Momento Mys:		0.14 T.m	0.83 T.m	
Presión Admisible ($\sigma_{Adm.}$):		9.23 T/m ²	18.46 T/m ²	
Porcentaje de Peso de Cimentación:		12 %	12 %	
Excentricidad en x:	0.06 m	OK	0.47 No Cumple	
Excentricidad en y:	0.02 m	OK	0.02 OK	
Área de Cimentación:	0.28 m ²		0.10 m ²	
Lado Aprox. de la Zapata:	0.53 m		0.31 m	
Materiales				
Concreto:	210 Kg/cm ²			
Acero:	4200 Kg/cm ²			
	L (m) (X)		B (m) (Y)	
Dimensión de la Zapata:	1.00	x	1.00	
Dimensión de la Columna:	0.25	x	0.25	
Acartelamiento:	0.30	m		
Altura de la Zapata:	0.30	m		
Factor de Mayoración:	1.5			
		$\sigma = \frac{P}{A} \pm \frac{6M_x}{AR} \pm \frac{6M_y}{AI}$ 		
Condición	1	2	3	4
q _s (T/m ²)	1.34	3.04	3.80	2.09
q _u (T/m ²)	2.00	4.56	5.69	3.14
REVISIÓN DE ESFUERZOS.				
Según Estudio de Suelos: ES 22055 SAN JUAN DE DIOS - INFORME GENERAL				
Presión Admisible:		9.23 T/m ²		
Presión Neta:	q _{s1x} =	3.16 T/m ²		
Flexión:	Lv=	0.375 m		
	M =	0.25 T/m		
	Mu =	0.38 T.m		
	h =	60 cm		
	d =	53 cm		
			Recubrimiento=	7.5 cm
	Cuantia=	0.0000	(Análisis)	
	As=	0.19 cm ²	(Análisis)	
	Cuantia=	0.0020	(Mínima sobre la sección bruta de concreto)	
	As=	12.00 cm ²	(Mínima)	

Armadura Principal **TOTAL** As = 12.00 cm²
en cada sentido 12.00 cm²/m

REFUERZO A UTILIZAR

#	m
#3	0.06
#4	0.11
X #5	0.17
#6	0.24
#7	0.32
#8	0.42

Se debe utilizar mín. refuerzo #5 C/0.17

REVISIÓN DE CORTANTE:

Revisión a d/2:

V (d/2) =	1.30	T	
Vu =	1.96	T	
d =	0.33	m	
φ Vc =	176.17	T	OK
ó φ Vc =	186.76	T	OK
ó φ Vc =	121.88	T	OK

Revisión a d:

q _{sd} =	3.30	kN/m ²	
V (d)	1.02	T	
Vu	1.54	T	
d	0.09	m	
φ Vc	4.98	T	OK

Transmisión de Esfuerzos de la columna a la zapata:

Carga Producida:	3	T	
Carga Máxima:	145	T	OK

Longitud de Desarrollo necesaria (Refuerzo de la Columna):

Diámetros de las Varillas para utilizar:

# Var.	Ø (cm)
# 3	0.953
# 4	1.270
# 5	1.590
# 6	1.910
# 7	2.220
# 8	2.540

Varilla de las columnas

# 4	1.27 cm
-----	---------

L_{db} = 22.1 cm OK

Como se puede observar los elementos presenta un buen comportamiento ante cargas gravitacionales, sin embargo debido a la existencia de grandes excentricidades se presenta falencias ante la acción sísmica en los elementos.

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ZAPATA: Z-1 **CANTIDAD:** 27

	GRAVIT.+SISMO	GRAVIT.
Carga de la Columna:	1.57 T	5.08 T
Momento Mxs:	0.04 T.m	0.01 T.m
Momento Mys:	0.83 T.m	0.02 T.m
Presión Admisible ($\sigma_{Adm.}$):	18.46 T/m ²	9.23 T/m ²
Porcentaje de Peso de Cimentación:	12.00 %	12 %
Excentricidad en x:	0.47 m	(ex/B)>=1/6 0.00 OK
Excentricidad en y:	0.02 m	O.K 0.00 OK
Área de Cimentación:	0.10 m ²	0.62 m ²
Lado Aprox. de la Zapata:	0.31 m	0.78 m

Materiales

Concreto: 210 Kg/cm²
Acero: 4200 Kg/cm²

	L (m) (X)		B (m) (Y)
Dimensión de la Zapata:	1.00	x	1.00
Distancia m	-0.10		1.00
Dimensión del área efectiva definitivo	-0.29		1.00
Dimensión de la Columna:	0.25	x	0.25
Acartelamiento:	0.30	m	
Altura de la Zapata:	0.30	m	
Factor de Mayoración:	1.5		

REVISIÓN DE ESFUERZOS.

Según Estudio de Suelos: ES 22055 SAN JUAN DE DIOS - INFORME GENERAL

Presión Admisible:	18.46 T/m ²	
Presión Neta:	qs _f = -10.98 T/m ²	O.K
Flexión:	Lv= 0.375 m	
	M = -0.77 T/m	
	Mu = -1.16 T.m	
	h = 60 cm	Recubrimiento= 7.5 cm
	d = 53 cm	
	Cuantia= -0.0001	(Análisis)
	As= -0.58 cm ²	(Análisis)
	Cuantia= 0.0020	(Mínima sobre la sección bruta de concreto)
	As= 12.00 cm ²	(Mínima)

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Armadura Principal **TOTAL:** As = 12.00 cm²
en cada sentido 12.00 cm²/m

REFUERZO A UTILIZAR

#	m
#3	0.06
#4	0.11
X #5	0.17
#6	0.24
#7	0.32
#8	0.42

Se debe utilizar mín. refuerzo #5 C/0.17

REVISIÓN DE CORTANTE:

Revisión a d/2:

V (d/2) =	-4.38	T	
Vu =	-6.57	T	
d =	0.33	m	
φ Vc =	176.17	T	OK
ó φ Vc =	186.76	T	OK
ó φ Vc =	121.88	T	OK

Revisión a d:

V (d)	1.65	T	
Vu	2.47	T	
d	0.09	m	
φ Vc	4.98	T	OK

Transmisión de Esfuerzos de la columna a la zapata:

Carga Producida:	2	T	
Carga Máxima:	145	T	OK

Longitud de Desarrollo necesaria (Refuerzo de la Columna):

Diámetros de las Varillas para utilizar:

# Var.	Ø (cm)
# 3	0.953
# 4	1.270
# 5	1.590
# 6	1.910
# 7	2.220
# 8	2.540

Varilla de las columnas

# 4	1.27 cm
-----	---------

L_{db} = 22.1 cm OK

Como se puede observar, debido a la existencia de excentricidad de carga en la condición con sismo se generan esfuerzos negativos, lo que indica que una porción de la zapata pasa a trabajar a tracción generando una disminución del área de contacto que aumenta la presión al suelo de fundación superando las cargas admisibles establecidas por el estudio de suelos.

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8 ANÁLISIS DE VULNERABILIDAD CONSERVACIÓN

8.1 Análisis sísmico

DEFINICION DE MOVIMIENTO SISMICO DEL DISEÑO																						
a.- Ubicación del proyecto:	Carrera 10 # 1-59 Sur, Antonio Nariño																					
b.- Zona de amenaza sísmica:	Intermedia																					
c.- Valor de A_a	$A_a = 0.15$																					
d.- Valor de A_v	$A_v = 0.20$																					
e.- Zona de Respuesta Sísmica (Microzonificación):	Aluvial 50																					
f.- Tipo de perfil de suelo:	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">x</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30px;"></th> <th style="width: 50px;">Fa</th> <th style="width: 50px;">Fv</th> </tr> </thead> <tbody> <tr><td>A</td><td></td><td></td></tr> <tr><td>B</td><td></td><td></td></tr> <tr><td>C</td><td></td><td></td></tr> <tr><td>D</td><td>1.35</td><td>1.80</td></tr> <tr><td>E</td><td></td><td></td></tr> <tr><td>F</td><td></td><td></td></tr> </tbody> </table> </div>		Fa	Fv	A			B			C			D	1.35	1.80	E			F		
	Fa	Fv																				
A																						
B																						
C																						
D	1.35	1.80																				
E																						
F																						
g.- Grupo de uso	III																					
h.- Coeficiente de importancia:	I 1.25																					
i.- Coeficiente de amortig. crítico	C.C.A: 5%																					
j.- Espectro de diseño:	Elástico																					
Observaciones: Según numeral A.6.2.1.2, el coeficiente de importancia a utilizar para el cálculo del desplazamiento horizontal I= 1 y para el diseño III= 1.25																						
<div style="display: flex; justify-content: flex-end;"> <div style="margin-right: 20px;">Revisó: _____</div> <div>Ejecutó: _____</div> </div>																						

CARACTERÍSTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA

a.-	Sistema estructural:	MUROS DE MAMPOSTERÍA NO REFORZADA
b.-	Material	Bloques de arcilla
c.-	Capacidad de disipación de energía	No tiene capacidad de disipacion de energia
d.-	Coefficiente de capacidad básica de modificación de respuesta	$R_o = 1.0$
	Coefficiente de Sobre resistencia	$\Omega_0 = 2.5$
e.-	Número de edificaciones	1
f.-	Número de pisos	1 PISO Y CUBIERTA

Observaciones:

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Ejecutó: _____

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IRREGULARIDAD DE LA EDIFICACION

a.- EDIFICACIÓN: 1 PISO

b.- CONFIGURACION EN PLANTA

TIPO	DESCRIPCION	ϕp
1aP	Irregularidad torsional	X 0.9
1bP	Irregularidad torsional extrema	1.0
2P	Retrocesos en esquinas	1.0
3P	Discontinuidades en el diafragma	1.0
4P	Desplaz. de elementos verticales	1.0
5P	Sistemas no paralelos	1.0
$\phi p =$	0.9	

c.- CONFIGURACION EN ALTURA

TIPO	DESCRIPCION	ϕa
1aA	Piso flexible (irregularidad en rigidez)	1.0
1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
2A	Distribución masa	1.0
3A	Irregularidad geométrica	1.0
4A	Desplaz. dentro del plano de acción	1.0
5aA	Piso débil- discontinuidad en la resistencia	1.0
5bA	Piso débil- discontinuidad extrema resistencia	1.0
$\phi a =$	1.0	

d.- AUSENCIA DE REDUNDANCIA ϕRX 1.00
 ϕRy 1.00

e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA
 $R_o = 1.0$

f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA

$R = (\phi a) \times (\phi p) \times (\phi r) \times R_o$
 $RX = 1.00$
 $RY = 1.00$

La NSR-10 En su seccion A.10.4.2.4 apartado d, establece que cuando se trate de edificaciones de mamposteria no reforzada, el valor del coeficiente de capacidad de disipacion de energia R' , debe ser igual a la unidad

g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS

Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y

h.- MEZCLA DE SISTEMAS ESTRUCTURALES

No existe, ni en planta ni en altura.

Observaciones:

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Ejecutó: _____

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CARACTERISTICAS DEL DISEÑO**a.- METODO DE ANALISIS SISMICO UTILIZADO**

Análisis dinámico elástico espectral

b.- METODO DE ANALISIS ESTRUCTURAL

Análisis matricial: Estructura principal

c.- METODO DE DISEÑO

Esfuerzos de Trabajo

Observaciones:

Revisó: _____

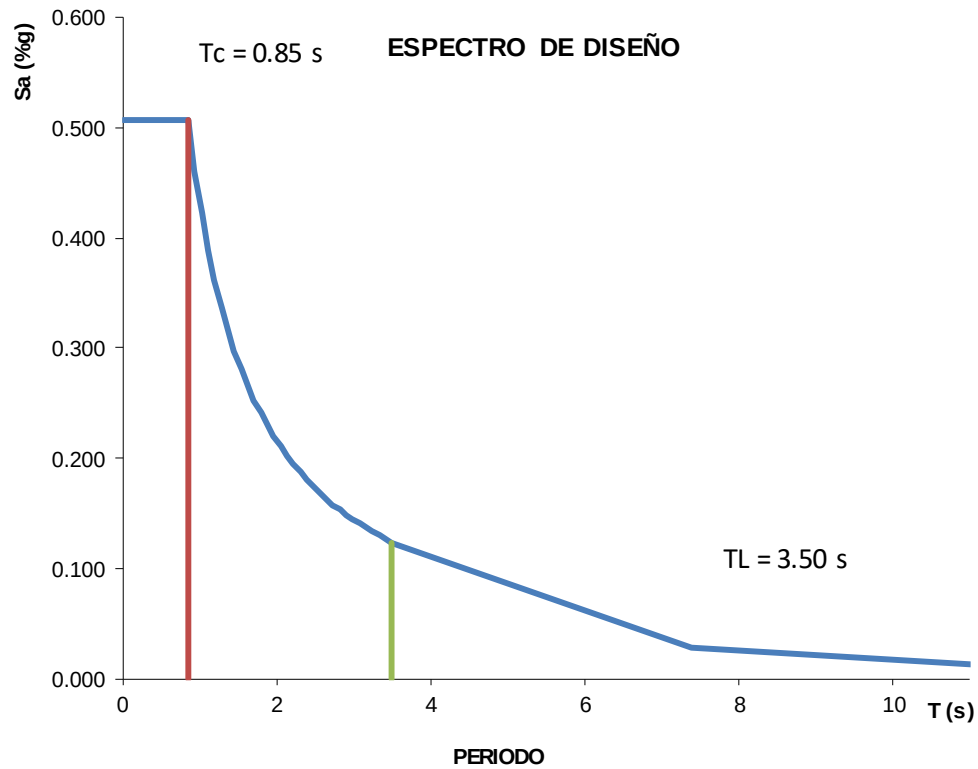
Ejecutó: _____

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ESPECTRO SISMICO	
MODELO NSR-10	
a. - PERIODO DE LA ESTRUCTURA	
$T_a = C_t \times h^\alpha$ $C_t = 0.049$ MUROS DE MAMPOSTERÍA NO REFORZADA $\alpha = 0.75$ $h_n = 3.90 \text{ m}$ $T_a = 0.14$ $c_u = 1.32$ $T_{dinmax} = 0.18$ $T_{din} = 0.05$ $T = 0.05$	
b. - PARÁMETROS	
$A_a = 0.15$ $F_a = 1.35$ $I = 1.00$ $I_{dis} = 1.25$	$A_v = 0.20$ $F_v = 1.80$
c. - LIMITES DEL PERIODO	
$T_o = (0.1 \times A_v \times F_v) / (A_a \times F_a) = 0.18$ $T_c = (0.48 \times A_v \times F_v) / (A_a \times F_a) = 0.85$ $T_L = T_L \text{ (Tabla 3., Decreto 523 de 2010)} = 3.50$	
d. - ESPECTRO PARA PERIODOS MENORES A T_c.	
$S_a 1 = 2.5 \times A_a \times F_a \times I =$	$S_a 1 = 0.51$
e. - ESPECTRO DE ACELERACIONES EN FUNCION DE T	
$S_a 2 = \frac{1.2 \times A_v \times F_v \times I}{T}$	$S_a 2 = 0.43 / T = 9.60$
f. - ESPECTRO PARA PERIODOS MAYORES A T_L.	
$S_a 3 = \frac{1.2 \times A_v \times F_v \times T_L \times I}{T^2}$	$S_a 3 = 1.51 / T^2 = 746.67$
g. - ESPECTRO SISMICO DE DISEÑO	
$S_a = 0.51$ 51% (g)	
Para el diseño el espectro sísmico según NSR-10, entonces $S_a = 0.51 = 50.625\% (g)$	
Observaciones:	Revisó: _____ Ejecutó: _____

ESPECTRO SISMICO DE DISEÑO

CURVAS DE ESPECTROS DE ACUERDO A LA NSR-10



Observaciones:

Revisó: _____

Ejecutó: _____

Versión:

V 5.1

Fecha:

31/01/2024

Documento:

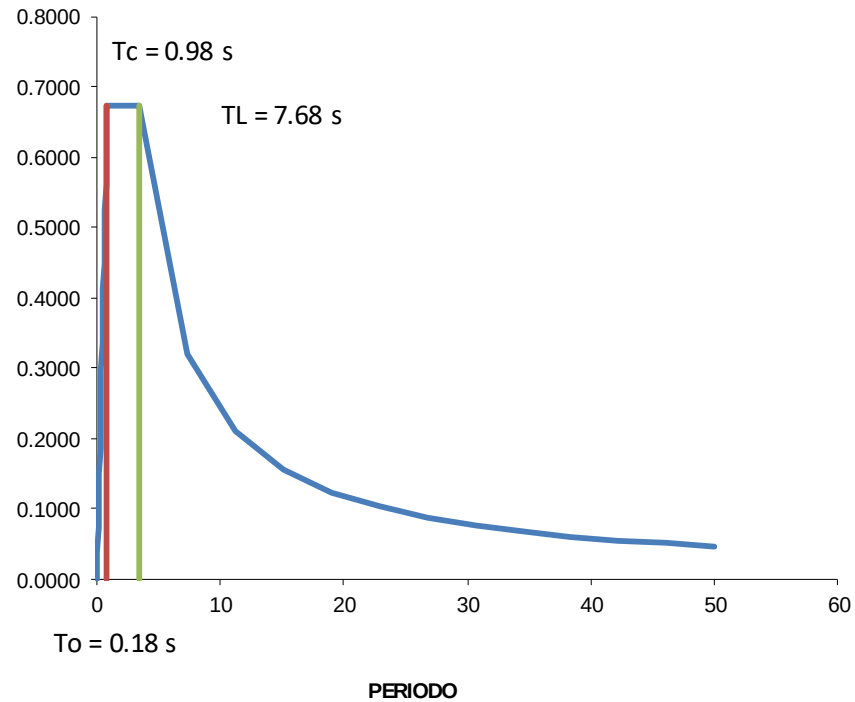
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ESPECTRO ELASTICO DE VELOCIDADES (m/s) DE DISEÑO

i.



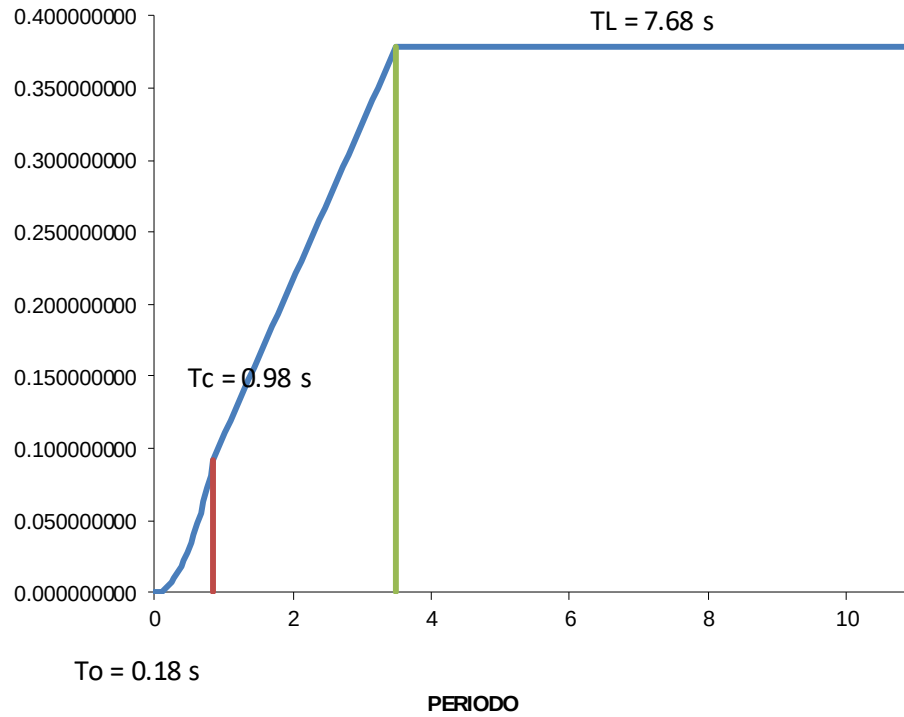
Observaciones:

Revisó: _____

Ejecutó: _____

ESPECTRO ELASTICO DE DESPLAZAMIENTOS (m) DE DISEÑO

j.



Observaciones:

Revisó: _____

Ejecutó: _____

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8.2 Peso de la estructura

PESO DE LA EDIFICACION

VOLUMES DE VIGAS Y COLUMNAS

PISO 1

NE+0.00

Area placa = 234.68 m²

Columnas y pantallas

ITEM	b (m)	h (m)	H (m)	Cant	V (m3)	Peso (t)
C25X25	0.25	0.25	3.90	1	0.24	0.58
C14X14	0.14	0.14	3.90	4	0.31	0.21
M012	0.10	9.62	3.90	1	3.75	6.94
M014	0.14	7.43	3.90	1	4.05	7.50
M015	0.15	9.35	3.90	1	5.46	10.10
M016	0.16	6.73	3.90	1	4.20	7.77
M017	0.17	2.51	3.90	1	1.66	3.07
M018	0.18	4.30	3.90	1	3.01	5.57
M021	0.21	2.83	3.90	1	2.31	4.28
M026	0.26	2.73	3.90	1	2.77	5.12
M028	0.28	1.27	3.90	1	1.39	2.56
M030	0.30	40.58	3.90	1	47.42	87.73
M032	0.32	13.87	3.90	1	17.30	32.00
M033	0.33	2.51	3.90	1	3.22	5.96
M038	0.38	6.86	3.90	1	10.16	18.80
M046	0.46	1.01	3.90	1	1.82	3.36
M070	0.70	1.01	3.90	1	2.77	5.12
Total				20	111.84	206.69

CUBIERTA

NE+3.90

Area placa = 234.68 m²

Vigas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
CERCHA	0.15	0.15	63.04	1.42	0.99
SOLERA	0.15	0.15	177.14	3.99	2.79
Total				3.99	3.78

CALCULO DE DENSIDADES		PISO 1		NE+0.00		
Area de placa		234.68		m ²		
MUROS						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
MUROS NO ESTRUC.						
MUROS FACHADA						
MUROS FACHADA						
					Total	0.00
MUROS NO ESTRUC.		0.000		t/m ²		
MUROS CONTENCIÓN		0.000		t/m ²		
DENSIDAD DE VIGAS		0.000		t/m ²		
DENSIDAD DE COLUMNAS Y PANTALLAS		0.440		t/m ²		
DENSIDAD DE VIGUETAS		0.000		t/m ²		

CALCULO DE DENSIDADES

CUBIERTA

N +3.90

Area de placa

234.68 m²

MUROS DIVISORIOS

	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

MUROS DIVISORIOS

0.000 t/m²

MUROS CONTENCIÓN

0.000 t/m²

DENSIDAD DE VIGAS

0.016 t/m²

DENSIDAD DE COLUMNAS Y PANTALLAS

0.440 t/m²

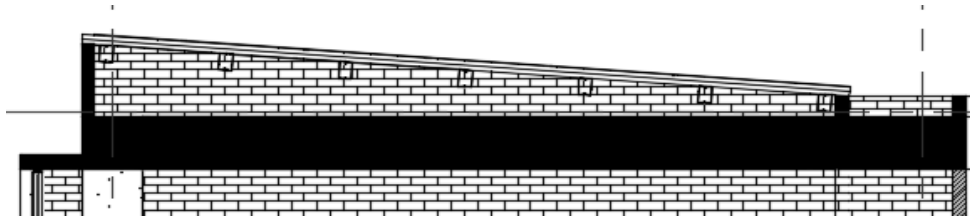
DENSIDAD DE VIGUETAS

0.000 t/m²

AVALUO DE CARGAS

CUBIERTA

N +3.90



	t/m ²
Teja de arcilla incluyendo mortero	0.08
Sistema de suspensión de madera	0.015
Tela asfáltica de una capa	0.003
Cielo Raso entramado metálico suspendido afinado en yeso	0.050
Cerchas en madera	0.033
	<hr/> 0.181

MUROS DIVISORIOS	0.000	t/m ²
CARGA MUERTA	0.18	t/m ²
CARGA VIVA O GRANIZO CUBIERTA <15°	0.050	t/m ²
CARGA VIVA O GRANIZO CUBIERTA >15°	0.035	t/m ²

DENSIDADES

VIGAS	0.016	t/m ²
COLUMNAS	0.440	t/m ²
VIGUETAS	0.000	t/m ²
CARGA REAL	0.69	t/m ²
CARGA ULTIMA PARA VIGUETAS	0.30	t/m ²
CARGA PARA ANALISIS SISMICO	0.64	t/m ²

8.3 Centros de Masa y Torsión

TORSION

CENTROS DE MASA Y TORSION ACCIDENTAL

CENTROS DE MASA

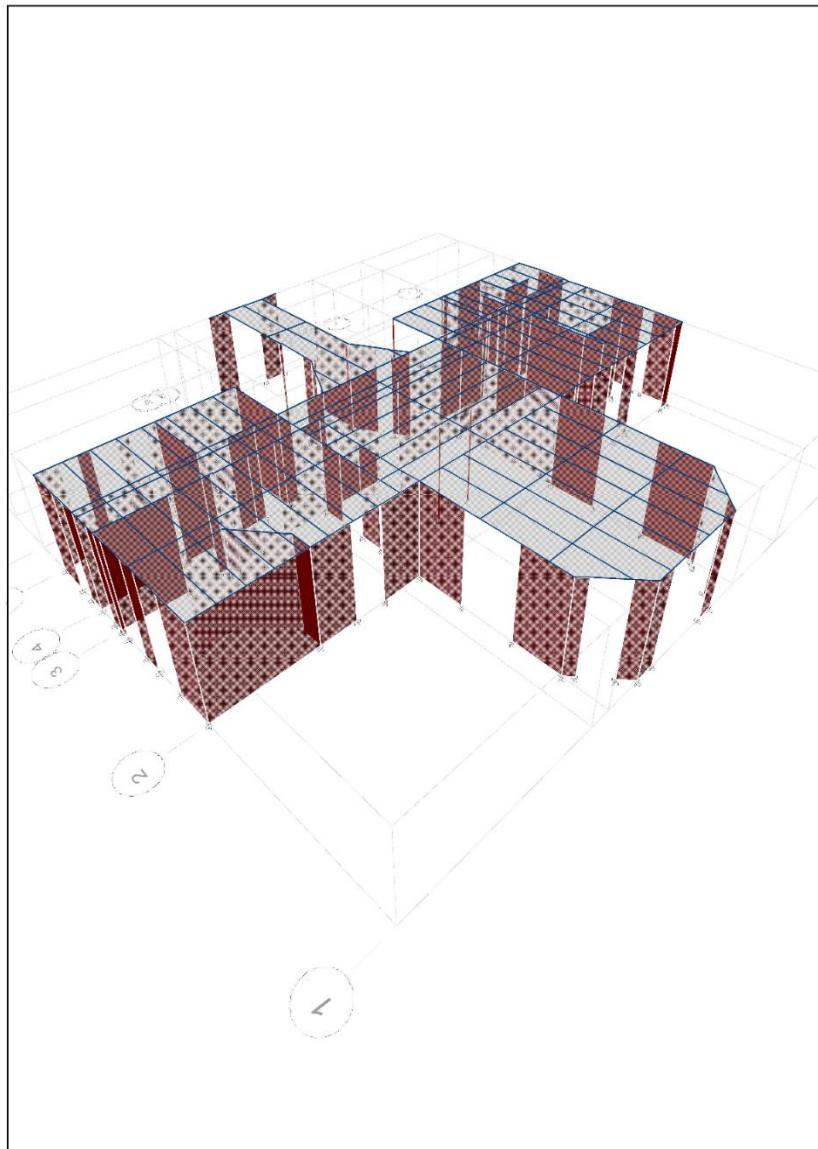
CENTRO DE MASA: **N +3.90**
X = 11.35 **Y = 10.86**

EXCENRICIDADA ACCIDENTAL

Dimensiones	Excentricidad	Excentricidad
N +3.90		
X= 59.04m	ex = 2.95m	e= 2.95m
Y= 16.25m	ey = 0.81m	

8.4 Estructuración

ETABS 2015 15.2.2



JARDIN INFANTIL.EDB

3-D View

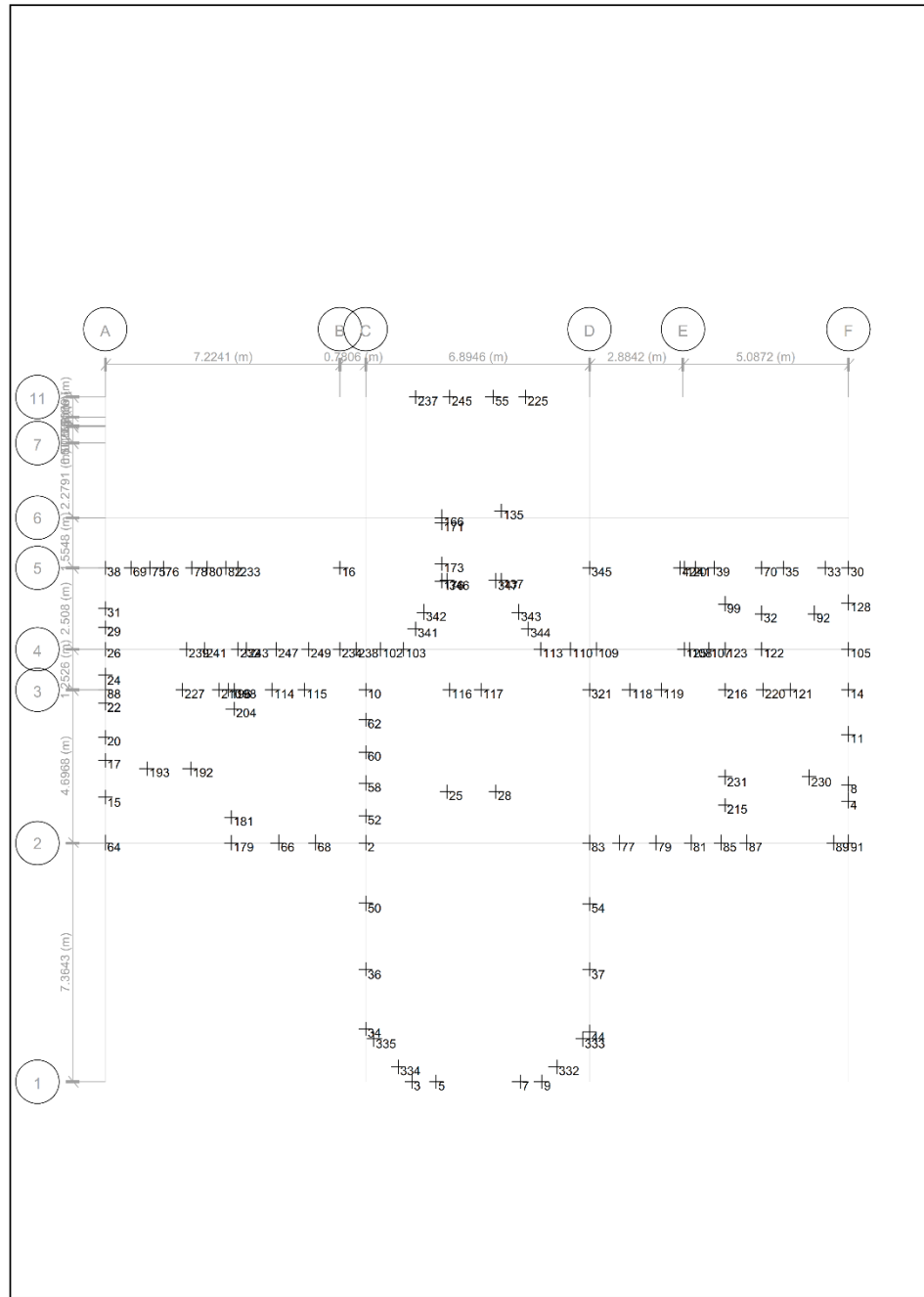
El modelo de la estructura fue hecho con el software ETABS 2015 En este programa se hizo una combinación de herramientas utilizando elementos tipo Frame para la simulación de las vigas, columnas, y elementos tipo Shell para las placas y muros.

Los apoyos de las columnas y muros son apoyos empotrados.

El sistema de cargas de la estructura es estático para cargas muertas y vivas, y dinámico para las fuerzas horizontales.

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ETABS 2015 15.2.2

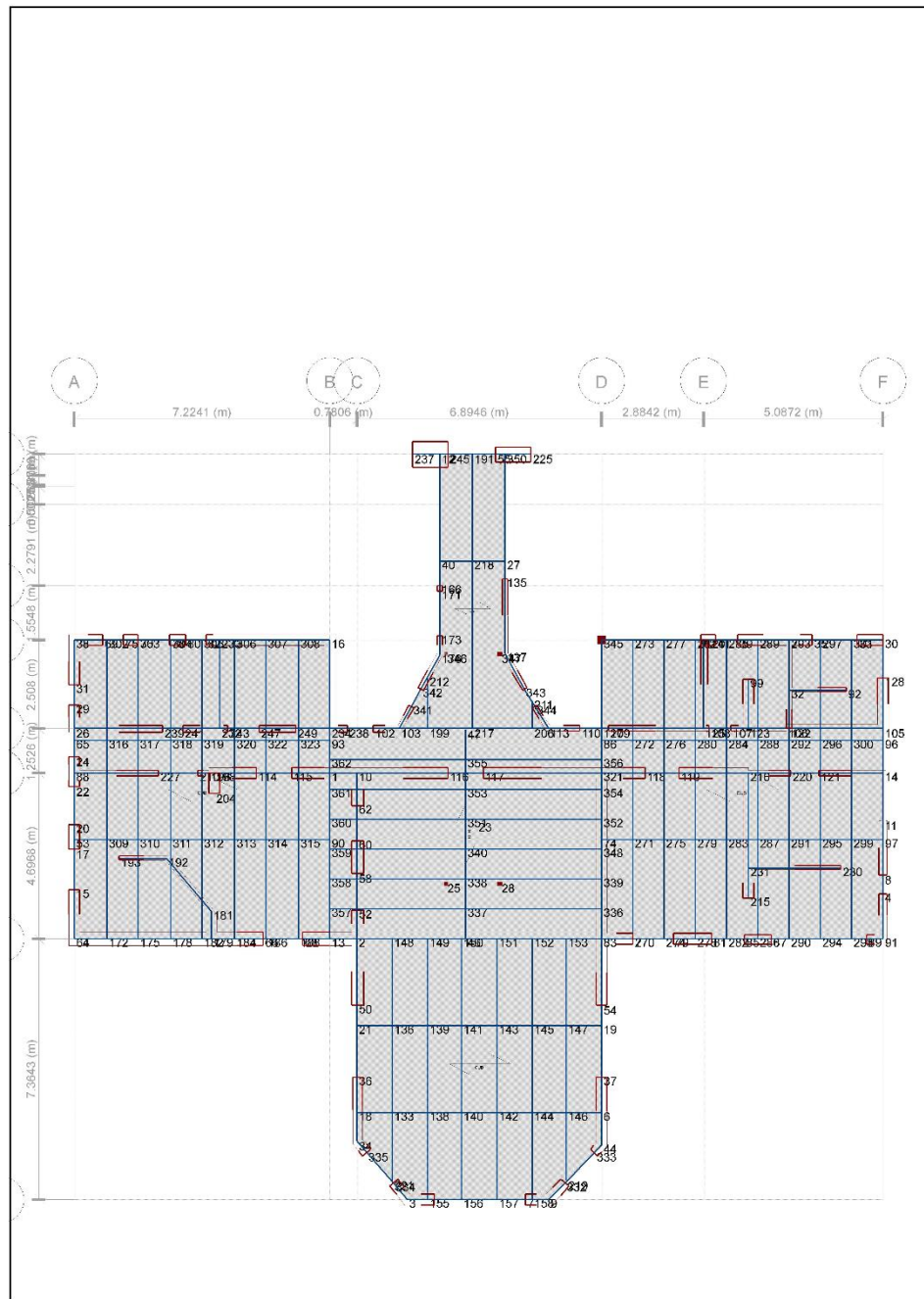


JARDIN INFANTIL.EDB

Plan View - Base - Z = 0 (m)

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ETABS 2015 15.2.2

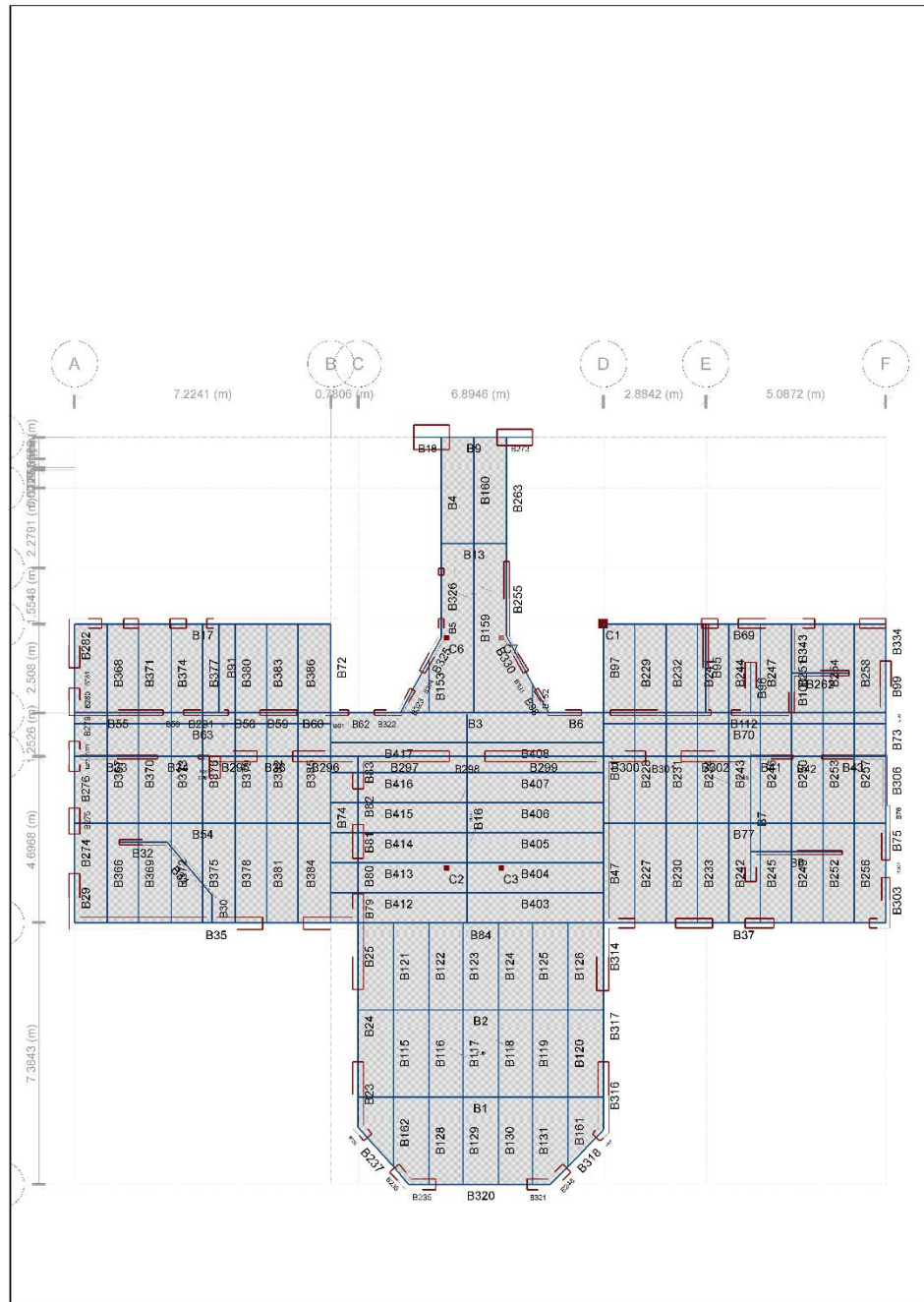


JARDIN INFANTIL.EDB

Plan View - NE+3.8955 - Z = 3.8955 (m)

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ETABS 2015 15.2.2



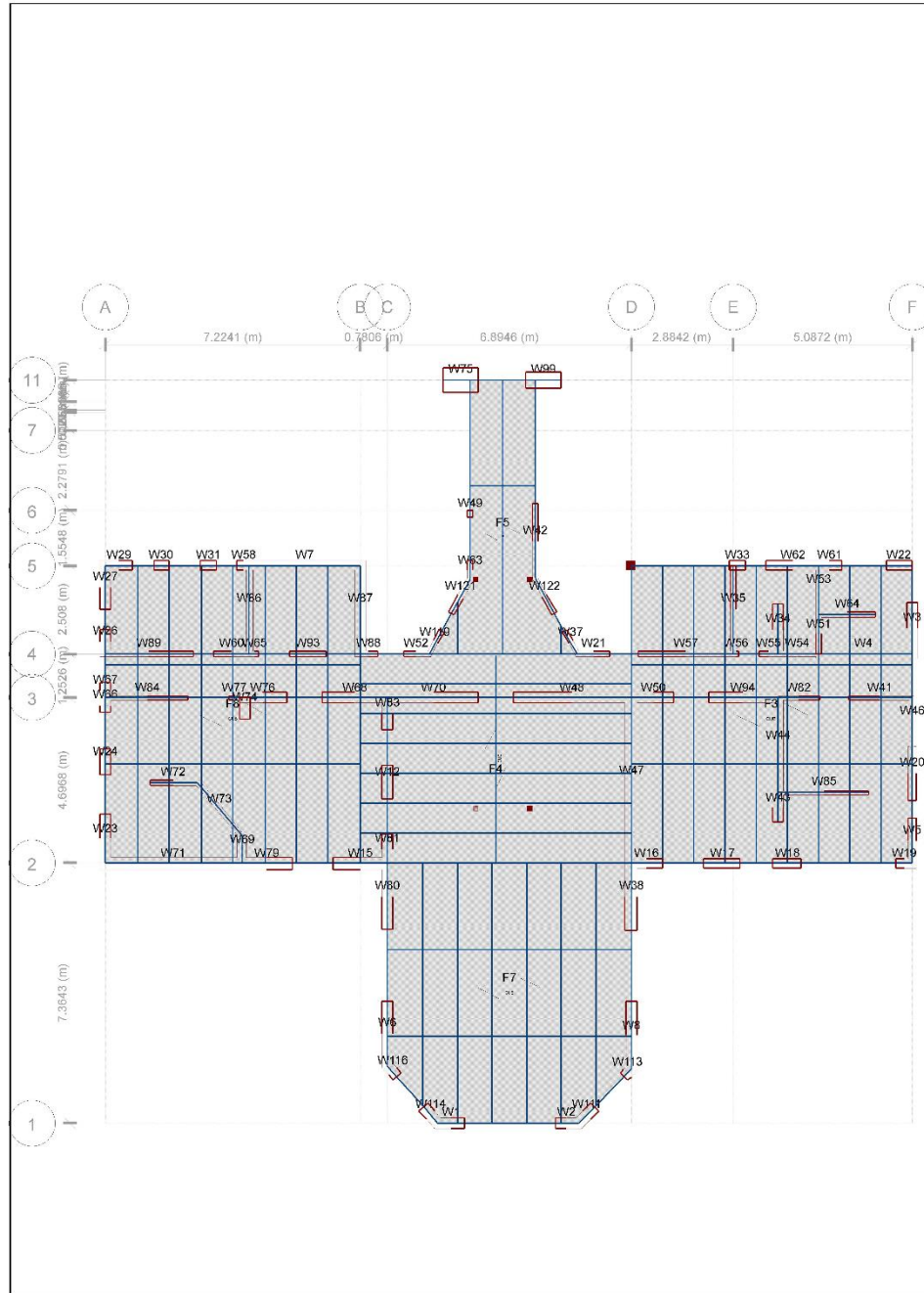
JARDIN INFANTIL.EDB

Plan View - NE+3.8955 - Z = 3.8955 (m)

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ETABS 2015 15.2.2

5/06/2017

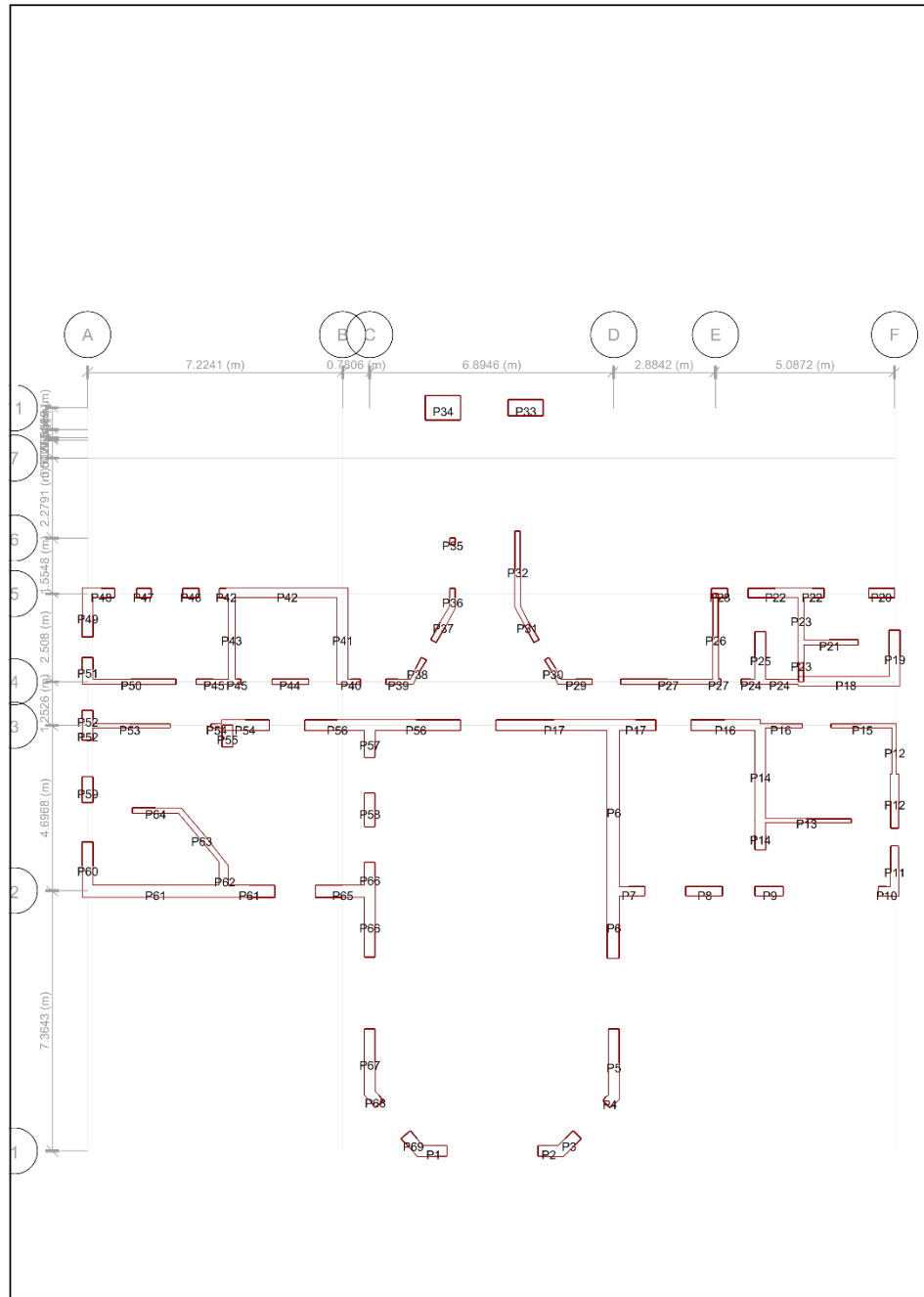


JARDIN INFANTIL.EDB

Plan View - NE+3.8955 - Z = 3.8955 (m)

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ETABS 2015 15.2.2

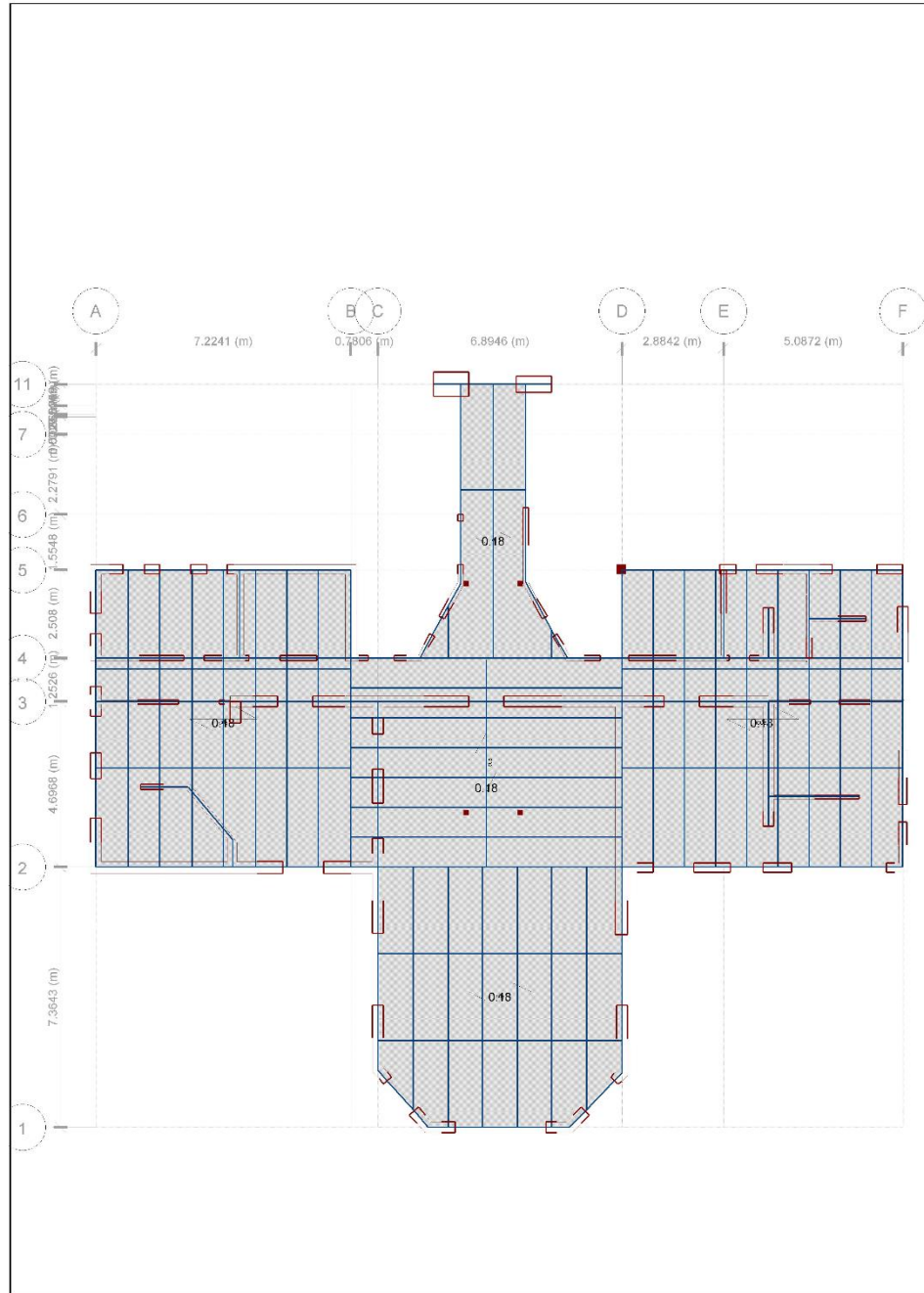


JARDIN INFANTIL.EDB

Plan View - NE+3.8955 - Z = 3.8955 (m)

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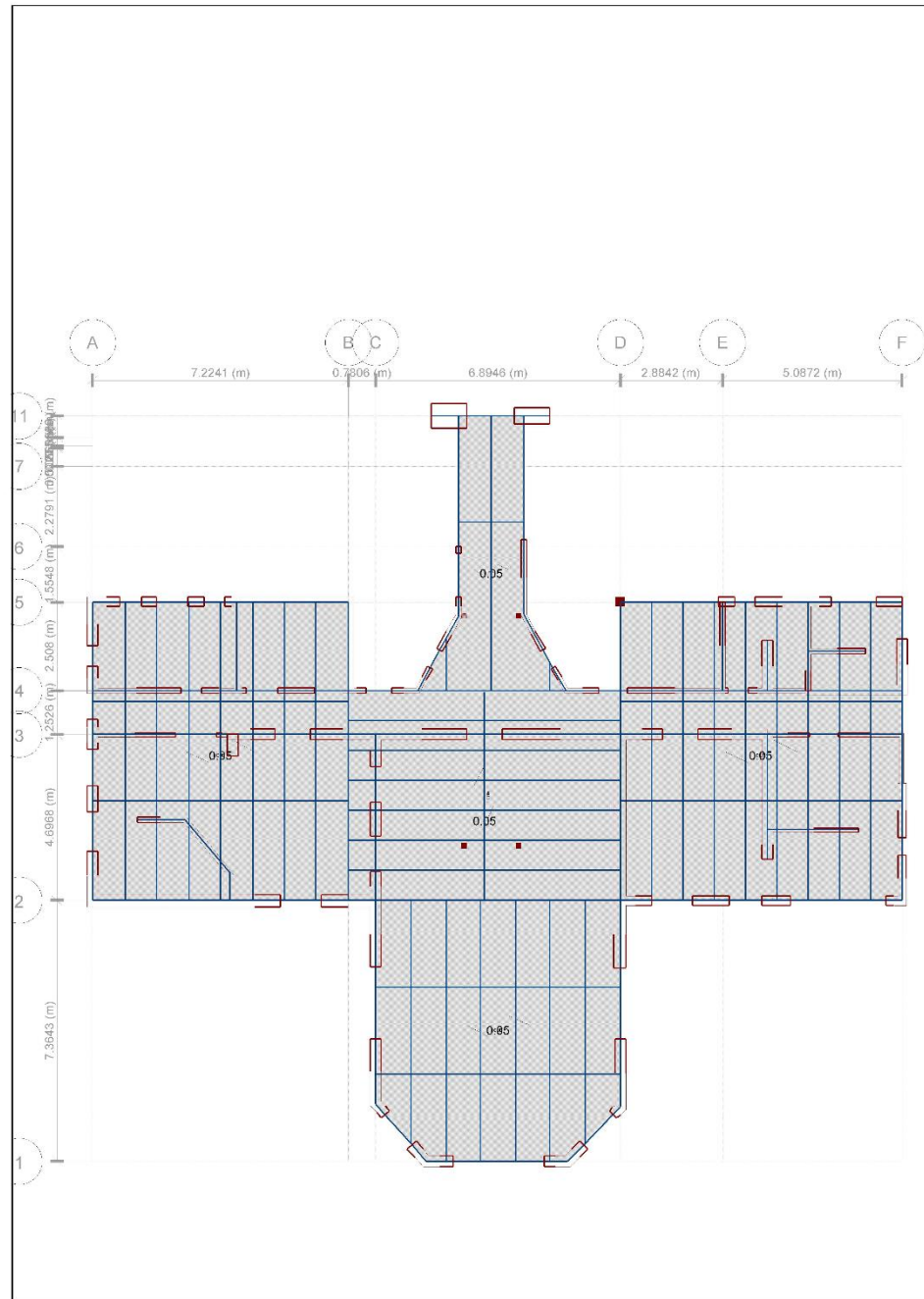
ETABS 2015 15.2.2



JARDIN INFANTIL - Plan View - NE+3.8955 - Z = 3.8955 (m) Uniform Loads Gravity (CA)

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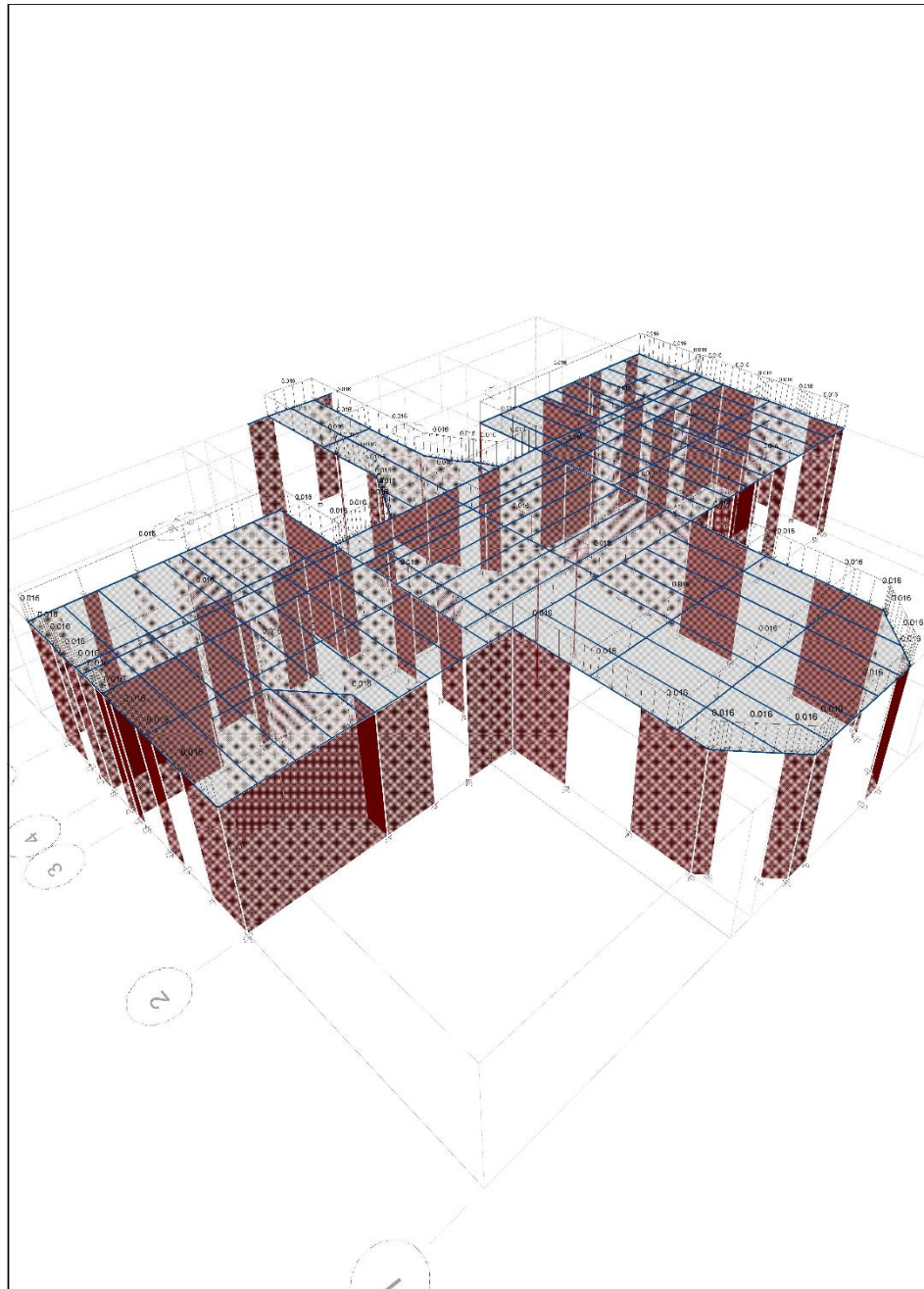
ETABS 2015 15.2.2



JARDIN INFANTIL - Top View - NE+3.8955 - Z = 3.8955 (m) Uniform Loads Gravity (CV)

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ETABS 2015 15.2.2



JARDIN INFANTIL.EDB

3-D View Frame Span Loads (PP)

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8.5 Análisis de fuerzas sísmicas
ANALISIS DE FUERZA SISMICA

RESUMEN DE DENSIDADES POR PISO

PISO	AREA (m2)	VIGAS (T/m²)	PLACA (T/m²)	VIGUETA (T/m²)	M. NE (T/m²)	COLUMNAS (T/m²)	MURO CONT. (T/m²)	CUBIERTA (T/m2)	ESCALERAS (T/m2)	TOTAL (T/m²)	TOTAL (T)
N +3.90	234.68	0.016	0.00	0.000	0.00	0.440	0.00	0.181	0.00	0.64	149.57
N +0.00	234.68	0.000	0.00	0.000	0.00	0.440	0.00	0.00	0.00	0.44	103.34
A. Total	469.37	Peso a cimentación								0.54	252.91
		Peso modelo matematico								0.54	253.23

Porcentaje de diferencia entre avaluo de cargas y modelo matematico 0.125% ok es menor que el 5 %
Porcentaje de participaicon de masas en los sentidos principales de la estrucutra

Sentido X 100.00% ok
Sentido Y 100.00% ok

DISTRIBUCION DE CARGAS SISMICAS

									CALIF.ESTRUC.	IRREGULAR
									%AJUSTE V=	0.9
PISO	h (m)	h ACUM.	h^k	w (t)	wh^k	Cv (%)	Fx (t)	M (t.m)		
N +3.90	3.90	3.90	3.90	149.57	582.65	1.00	184.94	545.95	Vd x-x	92.99
N +0.00	0.00	0.00	0.0	103.34	0.00	0.00			Vd y-y	76.59
				252.91	582.65	1.00	184.94	545.95		
T= 0.05										
W= 253 t V= 184.9 t										
k= 1.00 Sa= 0.73										
									AJUSTE	%
									SENTIDO X	1.79
									SENTIDO Y	2.17

8.6 Derivas Admisibles

La evaluación de los desplazamientos horizontales de la basílica de nuestra señora del socorro se realiza conforme a los lineamientos de la NSR-10, donde en su capítulo A.6.4.1 establece que la deriva máxima para cualquier piso no puede exceder de los límites de la tabla A.6.4-1, en la cual la deriva máxima se expresa como un porcentaje de la altura de piso.

Tabla A.6.4-1
Derivas máximas como porcentaje de h_{pi}

Estructuras de:	Deriva máxima
concreto reforzado, metálicas, de madera, y de mampostería que cumplen los requisitos de A.6.4.1.3	$1.0\% \left(\Delta_{\max}^i \leq 0.010 h_{pi} \right)$
de mampostería que cumplen los requisitos de A.6.4.1.4	$0.5\% \left(\Delta_{\max}^i \leq 0.005 h_{pi} \right)$

A continuación, se presenta el cuadro de resumen de los índices de flexibilidad para la estructura.

ÍNDICES DE FLEXIBILIDAD	
COMBINACIÓN 1	0.00%
COMBINACIÓN 2	0.03%
COMBINACIÓN 3	0.03%
COMBINACIÓN 4	0.05%
COMBINACIÓN 5	0.05%
COMBINACIÓN 6	0.03%
COMBINACIÓN 7	0.03%
COMBINACIÓN 8	0.05%
COMBINACIÓN 9	0.05%

DERIVAS ADMISIBLES								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 1 MAX								
NE+3.8955	38	0.0007	-0.0009	0.00	0.00	0.00	1.95	0.00
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0013	-0.0009	0.00	0.00	0.00	1.95	0.00
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0009	-0.0004	0.00	0.00	0.00	1.95	0.00
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0017	-0.0003	0.00	0.00	0.00	1.95	0.00
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0017	-0.0001	0.00	0.00	0.00	1.95	0.00
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0009	0.0000	0.00	0.00	0.00	1.95	0.00
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0007	0.0005	0.00	0.00	0.00	1.95	0.00
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0013	0.0005	0.00	0.00	0.00	1.95	0.00
BASE	91	0.0000	0.0000					0.00

COMB 2 MAX								
NE+3.8955	38	0.0332	0.0027	0.03	0.00	0.03	1.95	0.02
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0369	0.0027	0.04	0.00	0.04	1.95	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0337	0.0114	0.03	0.01	0.04	1.95	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0440	0.0130	0.04	0.01	0.05	1.95	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0440	0.0198	0.04	0.02	0.05	1.95	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0337	0.0227	0.03	0.02	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0332	0.0361	0.03	0.04	0.05	1.95	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0369	0.0361	0.04	0.04	0.05	1.95	0.03
BASE	91	0.0000	0.0000					0.00
COMB 3 MAX								
NE+3.8955	38	-0.0318	-0.0043	0.03	0.00	0.03	1.95	0.02
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0346	-0.0043	0.03	0.00	0.03	1.95	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0321	-0.0121	0.03	0.01	0.03	1.95	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0408	-0.0136	0.04	0.01	0.04	1.95	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0408	-0.0200	0.04	0.02	0.05	1.95	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0321	-0.0227	0.03	0.02	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0318	-0.0351	0.03	0.04	0.05	1.95	0.02
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0346	-0.0351	0.03	0.04	0.05	1.95	0.03
BASE	91	0.0000	0.0000					0.00

COMB 4 MAX								
NE+3.8955	38	0.0322	0.0846	0.03	0.08	0.09	1.95	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0280	0.0846	0.03	0.08	0.09	1.95	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0240	0.0508	0.02	0.05	0.06	1.95	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0599	0.0477	0.06	0.05	0.08	1.95	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0599	0.0390	0.06	0.04	0.07	1.95	0.04
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0240	0.0379	0.02	0.04	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0322	0.0541	0.03	0.05	0.06	1.95	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0280	0.0541	0.03	0.05	0.06	1.95	0.03
BASE	91	0.0000	0.0000					0.00
COMB 5 MAX								
NE+3.8955	38	-0.0308	-0.0863	0.03	0.09	0.09	1.95	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0257	-0.0863	0.03	0.09	0.09	1.95	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0224	-0.0515	0.02	0.05	0.06	1.95	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0568	-0.0483	0.06	0.05	0.07	1.95	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0568	-0.0391	0.06	0.04	0.07	1.95	0.04
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0224	-0.0379	0.02	0.04	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0308	-0.0531	0.03	0.05	0.06	1.95	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0257	-0.0531	0.03	0.05	0.06	1.95	0.03
BASE	91	0.0000	0.0000					0.00

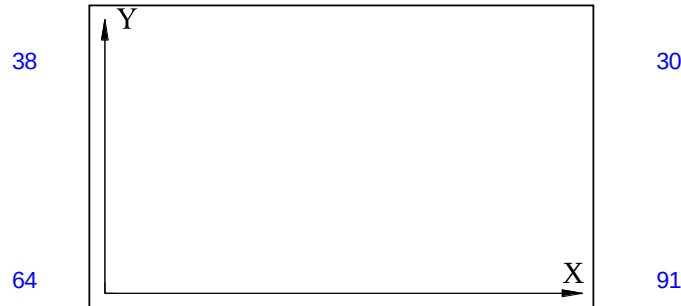
COMB 6 MAX								
NE+3.8955	38	0.0329	0.0030	0.03	0.00	0.03	1.95	0.02
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0365	0.0030	0.04	0.00	0.04	1.95	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0334	0.0115	0.03	0.01	0.04	1.95	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0434	0.0131	0.04	0.01	0.05	1.95	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0434	0.0199	0.04	0.02	0.05	1.95	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0334	0.0227	0.03	0.02	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0329	0.0359	0.03	0.04	0.05	1.95	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0365	0.0359	0.04	0.04	0.05	1.95	0.03
BASE	91	0.0000	0.0000					0.00
COMB 7 MAX								
NE+3.8955	38	-0.0321	-0.0040	0.03	0.00	0.03	1.95	0.02
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0351	-0.0040	0.04	0.00	0.04	1.95	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0324	-0.0119	0.03	0.01	0.03	1.95	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0414	-0.0135	0.04	0.01	0.04	1.95	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0414	-0.0199	0.04	0.02	0.05	1.95	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0324	-0.0227	0.03	0.02	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0321	-0.0353	0.03	0.04	0.05	1.95	0.02
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0351	-0.0353	0.04	0.04	0.05	1.95	0.03
BASE	91	0.0000	0.0000					0.00

COMB 8 MAX								
NE+3.8955	38	0.0319	0.0849	0.03	0.08	0.09	1.95	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0276	0.0849	0.03	0.08	0.09	1.95	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0237	0.0509	0.02	0.05	0.06	1.95	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0593	0.0478	0.06	0.05	0.08	1.95	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0593	0.0390	0.06	0.04	0.07	1.95	0.04
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0237	0.0379	0.02	0.04	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0319	0.0539	0.03	0.05	0.06	1.95	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0276	0.0539	0.03	0.05	0.06	1.95	0.03
BASE	91	0.0000	0.0000					0.00
COMB 9 MAX								
NE+3.8955	38	-0.0311	-0.0859	0.03	0.09	0.09	1.95	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0262	-0.0859	0.03	0.09	0.09	1.95	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0227	-0.0513	0.02	0.05	0.06	1.95	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0574	-0.0481	0.06	0.05	0.07	1.95	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0574	-0.0391	0.06	0.04	0.07	1.95	0.04
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0227	-0.0379	0.02	0.04	0.04	1.95	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0311	-0.0533	0.03	0.05	0.06	1.95	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0262	-0.0533	0.03	0.05	0.06	1.95	0.03
BASE	91	0.0000	0.0000					0.00

8.6.1 Verificación irregularidad torsional

VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal



REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X

Caso de Carga: 2

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 30 91

Nudo: 38 64

Nivel	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax
NE+3.8955	0.05	0.05	0.06		NO	0.74	0.03	0.04	0.04		NO	0.86

SISMO EN Y

Caso de Carga: 5

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 38 30

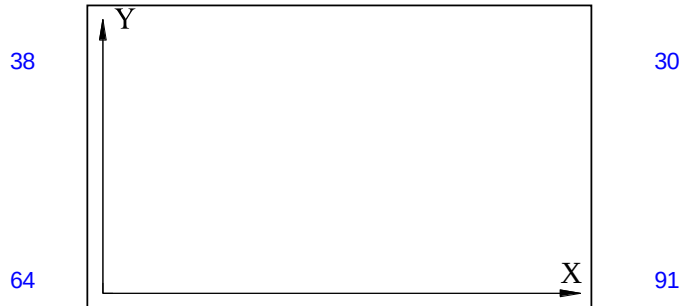
Nudo: 64 91

Nivel	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.2	¿Irregularidad?	Ax
NE+3.8955	0.09	0.06	0.09		SI	1.04	0.09	0.06	0.09		SI	1.00

8.6.2 Verificación irregularidad torsional extrema

VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL EXTREMA

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal



REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X

Caso de Carga: 2

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 30 91

Nudo: 38 64

Nivel	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.4	¿Irregularidad?	Ax	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.4	¿Irregularidad?	Ax
NE+3.8955	0.05	0.05	0.07		NO	0.54	0.03	0.04	0.05		NO	0.55

SISMO EN Y

Caso de Carga: 9

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 38 30

Nudo: 64 91

Nivel	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.4	¿Irregularidad?	Ax	$\Delta 1$ (cm)	$\Delta 2$ (cm)	$(\Delta 1 + \Delta 2)$ 2	x 1.4	¿Irregularidad?	Ax
NE+3.8955	0.09	0.06	0.11		NO	0.69	0.09	0.06	0.10		NO	0.81

8.7 Análisis Sísmico del Umbral de Daño

DEFINICION DE MOVIMIENTO SISMICO DE UMBRAL DE DAÑO																							
a.-	Ubicación del proyecto:	Carrera 10 # 1-59 Sur, Antonio Nariño																					
b.-	Zona de amenaza sísmica:	Intermedia																					
c.-	Valor de Ad	Ad = 0.06																					
d.-	Valor de Aod	Aod= 0.09																					
e.-	Zona de Respuesta Sísmica (Microzonificación):	Aluvial 50																					
f.-	Tipo de perfil de suelo:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 20%;">Fa</th> <th style="width: 20%;">Fv</th> </tr> </thead> <tbody> <tr><td>A</td><td></td><td></td></tr> <tr><td>B</td><td></td><td></td></tr> <tr><td>C</td><td></td><td></td></tr> <tr><td>D</td><td>1.5</td><td>2.5</td></tr> <tr><td>E</td><td></td><td></td></tr> <tr><td>F</td><td></td><td></td></tr> </tbody> </table>		Fa	Fv	A			B			C			D	1.5	2.5	E			F		
	Fa	Fv																					
A																							
B																							
C																							
D	1.5	2.5																					
E																							
F																							
	X																						
g.-	Grupo de uso	III																					
h.-	Coeficiente de importancia:	I 1.25																					
i.-	Coeficiente de amortig. crítico	C.C.A: 2%																					
j.-	Espectro de diseño:	Elástico																					
Observaciones: Según numeral A.6.2.1.2, el coeficiente de importancia a utilizar para el cálculo del desplazamiento horizontal I= 1 y para el diseño III= 1.25		Revisó: _____ Ejecutó: _____																					

CARACTERISTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA

a.-	Sistema estructural:	MUROS DE MAMPOSTERÍA NO REFORZADA
b.-	Material	Bloques de arcilla
c.-	Capacidad de disipación de energía	No tiene capacidad de disipacion de energia
d.-	Coeficiente de capacidad básica de modificación de respuesta	$R_0 = 1.0$
	Coeficiente de Sobre resistencia	$\Omega_0 = 2.5$
e.-	Número de edificaciones	1
f.-	Número de pisos	1 PISO Y CUBIERTA

Observaciones:

Revisó: _____
Ejecutó: _____

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IRREGULARIDAD DE LA EDIFICACION			
a.-	EDIFICACIÓN: 1 PISO		
b.-	CONFIGURACION EN PLANTA		
	TIPO	DESCRIPCION	ϕp
	1aP	Irregularidad torsional	X 0.9
	1bP	Irregularidad torsional extrema	1.0
	2P	Retrocesos en esquinas	1.0
	3P	Discontinuidades en el diafragma	1.0
	4P	Desplaz. de elementos verticales	1.0
	5P	Sistemas no paralelos	1.0
	$\phi p =$	0.9	
c.-	CONFIGURACION EN ALTURA		
	TIPO	DESCRIPCION	ϕa
	1aA	Piso flexible (irregularidad en rigidez)	1.0
	1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
	2A	Distribución masa	1.0
	3A	Irregularidad geométrica	1.0
	4A	Desplaz. dentro del plano de acción	1.0
	5aA	Piso débil- discontinuidad en la resistencia	1.0
	5bA	Piso débil- discontinuidad extrema resistencia	1.0
	ϕa	1.0	
d.-	AUSENCIA DE REDUNDANCIA	ϕRx	1.00
		ϕry	1.00
e.-	COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA $R_o = 1.0$		
f.-	COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA		
	R=	$(\phi a) \times (\phi p) \times (\phi r) \times R_o$	La NSR-10 En su seccion A.10.4.2.4 apartado d, establece que cuando se trate de edificaciones de mamposteria no reforzada, el valor del coeficiente de capacidad de disipacion de energia R', debe ser igual a la unidad
	RX=	1.00	
	RY=	1.00	
g.-	EFECTOS ORTOGONALES EN CARGAS SISMICAS		
	Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y		
h.-	MEZCLA DE SISTEMAS ESTRUCTURALES		
	No existe, ni en planta ni en altura.		
Observaciones:			Revisó: _____ Ejecutó: _____

CARACTERISTICAS DEL DISEÑO

a.- METODO DE ANALISIS SISMICO UTILIZADO

A.D.E. ANALISIS DINAMICO ELASTICO

b.- METODO DE ANALISIS ESTRUCTURAL

Análisis matricial: Estructura principal

c.- METODO DE DISEÑO

Esfuerzos ultimos

Observaciones:

Revisó: _____

Ejecutó: _____

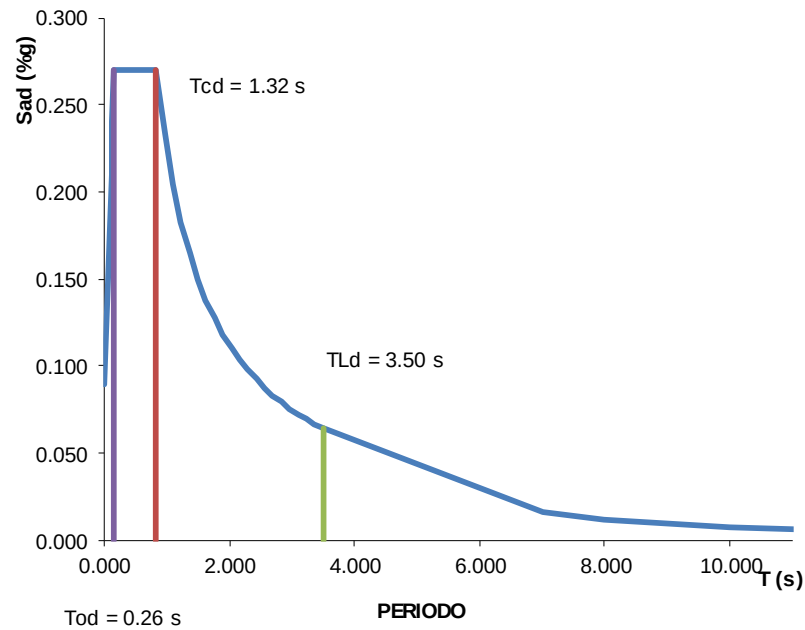
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ESPECTRO SISMICO DE UMBRAL DE DAÑO	
MODELO NSR-10	
a. - PERIODO DE LA ESTRUCTURA	
$T_a = C_t \times h^{\alpha}$ $C_t = 0.049$ MUROS DE MAMPOSTERÍA NO REFORZADA $\alpha = 0.75$ $h_n = 3.90$ m. $T_a = 0.14$ $c_u = 1.32$ $T_{dinma} = 0.18$ $T_{din} = 0.05$ $T = 0.05$	
b. - PARÁMETROS	
$A_d = 0.06$ $F_a = 1.50$ $I = 1.00$ $I_{dis} = 1.25$	$A_{od} = 0.09$ $F_v = 2.50$
c. - LIMITES DEL PERIODO	
$T_{od} = (0.1 \times F_v) / (F_a) = 0.17$ $T_{cd} = (0.5 \times F_v) / (F_a) = 0.83$ $T_{Ld} = T_{Ld} = 3.50$	
d. - ESPECTRO PARA PERIODOS MENORES A T_{od}.	
$S_a d_o =$	$S_{ad} = 0.14$
e. - ESPECTRO PARA PERIODOS ENTRE T_{od} y T_c.	
$S_a d_1 = 3.0 \times A_d \times F_a =$	$S_{ad1} = 0.27$
f. - ESPECTRO DE ACELERACIONES EN FUNCION DE T	
$S_a d_2 = \frac{1.5 \times A_d \times F_v}{T}$	$S_a 2 = 5.00$
g. - ESPECTRO PARA PERIODOS MAYORES A T_L.	
$S_a d_3 = \frac{1.5 \times A_d \times F_v \times T_{Ld}}{T^2}$	$S_a 3 = 0.79 / T^2 = 388.9$
h. - ESPECTRO SISMICO DE DISEÑO	
$S_a = 0.14$ 14% (g)	
Para el diseño el espectro sísmico según NSR-10, entonces $S_a = 0.14 = 13.86\%$ (g)	
Observaciones:	Revisó: _____ Ejecutó: _____

ESPECTRO SISMICO DE UMBRAL DE DAÑO

CURVAS DE ESPECTROS DE ACUERDO A LA NSR-10

ESPECTRO DE DISEÑO



Observaciones:

Revisó: _____

Ejecutó: _____

Versión:

V 5.1

Fecha:

31/01/2024

Documento:

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8.8 Análisis de fuerzas Sísmicas del Umbral de Daño
ANÁLISIS DE FUERZA SISMICA UMBRAL DE DAÑO

RESUMEN DE DENSIDADES POR PISO

PISO	AREA (m2)	VIGAS (T/m ²)	PLACA (T/m ²)	VIGUETA (T/m ²)	M. NE (T/m ²)	COLUMNAS (T/m ²)	MURO CIMEN. (T/m ²)	CUBIERTA (T/m2)	ESCALERAS (T/m2)	TOTAL (T/m ²)	TOTAL (T)
N +3.90	234.68	0.016	0.00	0.00	0.00	0.44	0.00	0.18	0.00	0.64	149.57
N +0.00	234.68	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.44	103.34
A. Total	469.37	Peso a cimentación								0.54	252.91

DISTRIBUCION DE CARGAS SISMICAS

									CALIF.STRUC.	IRREGULAR
									%AJUSTE V=	0.9
PISO	h (m)	h ACUM.	h^k	w (t)	wh^k	Cv (%)	Ex (t)	M (t.m)		
N +3.90	3.90	3.90	3.90	149.57	582.65	1.00	61.06	180.26		
N +0.00	0.00	0.00	0.00	103.34	0.00	0.00	0.00	0.00	Vd x-x	24.03
									Vd y-y	20.67
				252.91	582.65	1.00	61.06	180.26		
T= 0.05									AJUSTE	%
W= 252.91 t									SENTIDO X	2.29
k= 1.00									SENTIDO Y	2.66
V= 61.1 t									g	
Sa= 0.24									22.44	
									26.08	

8.9 Derivas Admisibles del Umbral de Daño

La evaluación de los desplazamientos horizontales para el umbral de daño del edificio de inmunología se realiza conforme a los lineamientos de la NSR-10, donde en su capítulo A.12.5 establece que la deriva máxima para cualquier piso no puede exceder de los límites de la tabla A.12.5-1, en la cual la deriva máxima se expresa como un porcentaje de la altura de piso.

Tabla A.12.5-1
Derivas máximas para el umbral de daño como porcentaje de h_{pi}

Estructuras de:	Deriva máxima
concreto reforzado, metálicas, de madera, y de mampostería que cumplen los requisitos de A.12.5.3.1	0.40% ($\Delta_{max}^i \leq 0.0040 h_{pi}$)
de mampostería que cumplen los requisitos de A.12.5.3.2	0.20% ($\Delta_{max}^i \leq 0.0020 h_{pi}$)

A continuación, se presenta el cuadro de resumen de los índices de flexibilidad para la estructura para el umbral de daño como % absoluto donde el 1% representa el máximo permitido

ÍNDICES DE FLEXIBILIDAD	
COMBINACIÓN 1	0.00 %
COMBINACIÓN 2	0.03 %
COMBINACIÓN 3	0.03 %
COMBINACIÓN 4	0.05 %
COMBINACIÓN 5	0.05 %
COMBINACIÓN 6	0.03 %
COMBINACIÓN 7	0.03 %
COMBINACIÓN 8	0.05 %
COMBINACIÓN 9	0.05 %

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DERIVAS UMBRAL DE DAÑO								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 1 MAX								
NE+3.8955 BASE	38	0.0007	-0.0009	0.00	0.00	0.00	0.78	0.00
	38	0.0000	0.0000					0.00
NE+3.8955 BASE	64	0.0013	-0.0009	0.00	0.00	0.00	0.78	0.00
	64	0.0000	0.0000					0.00
NE+3.8955 BASE	102	0.0009	-0.0004	0.00	0.00	0.00	0.78	0.00
	102	0.0000	0.0000					0.00
NE+3.8955 BASE	3	0.0017	-0.0003	0.00	0.00	0.00	0.78	0.00
	3	0.0000	0.0000					0.00
NE+3.8955 BASE	9	0.0017	-0.0001	0.00	0.00	0.00	0.78	0.00
	9	0.0000	0.0000					0.00
NE+3.8955 BASE	109	0.0009	0.0000	0.00	0.00	0.00	0.78	0.00
	109	0.0000	0.0000					0.00
NE+3.8955 BASE	30	0.0007	0.0005	0.00	0.00	0.00	0.78	0.00
	30	0.0000	0.0000					0.00
NE+3.8955 BASE	91	0.0013	0.0005	0.00	0.00	0.00	0.78	0.00
	91	0.0000	0.0000					0.00

COMB 2 MAX								
NE+3.8955	38	0.0113	0.0007	0.01	0.00	0.01	0.78	0.01
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0135	0.0007	0.01	0.00	0.01	0.78	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0116	0.0052	0.01	0.01	0.01	0.78	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0176	0.0060	0.02	0.01	0.02	0.78	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0176	0.0092	0.02	0.01	0.02	0.78	0.03
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0116	0.0106	0.01	0.01	0.02	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0113	0.0171	0.01	0.02	0.02	0.78	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0135	0.0171	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00
COMB 3 MIN								
NE+3.8955	38	-0.0100	-0.0023	0.01	0.00	0.01	0.78	0.01
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0113	-0.0023	0.01	0.00	0.01	0.78	0.01
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0100	-0.0059	0.01	0.01	0.01	0.78	0.01
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0145	-0.0066	0.01	0.01	0.02	0.78	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0145	-0.0094	0.01	0.01	0.02	0.78	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0100	-0.0106	0.01	0.01	0.01	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0100	-0.0161	0.01	0.02	0.02	0.78	0.02
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0113	-0.0161	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00

COMB 4 MAX								
NE+3.8955	38	0.0135	0.0337	0.01	0.03	0.04	0.78	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0132	0.0337	0.01	0.03	0.04	0.78	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0106	0.0188	0.01	0.02	0.02	0.78	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0265	0.0173	0.03	0.02	0.03	0.78	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0265	0.0127	0.03	0.01	0.03	0.78	0.04
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0106	0.0120	0.01	0.01	0.02	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0135	0.0193	0.01	0.02	0.02	0.78	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0132	0.0193	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00
COMB 5 MIN								
NE+3.8955	38	-0.0122	-0.0354	0.01	0.04	0.04	0.78	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0109	-0.0354	0.01	0.04	0.04	0.78	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0090	-0.0195	0.01	0.02	0.02	0.78	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0234	-0.0179	0.02	0.02	0.03	0.78	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0234	-0.0129	0.02	0.01	0.03	0.78	0.03
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0090	-0.0119	0.01	0.01	0.01	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0122	-0.0183	0.01	0.02	0.02	0.78	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0109	-0.0183	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00

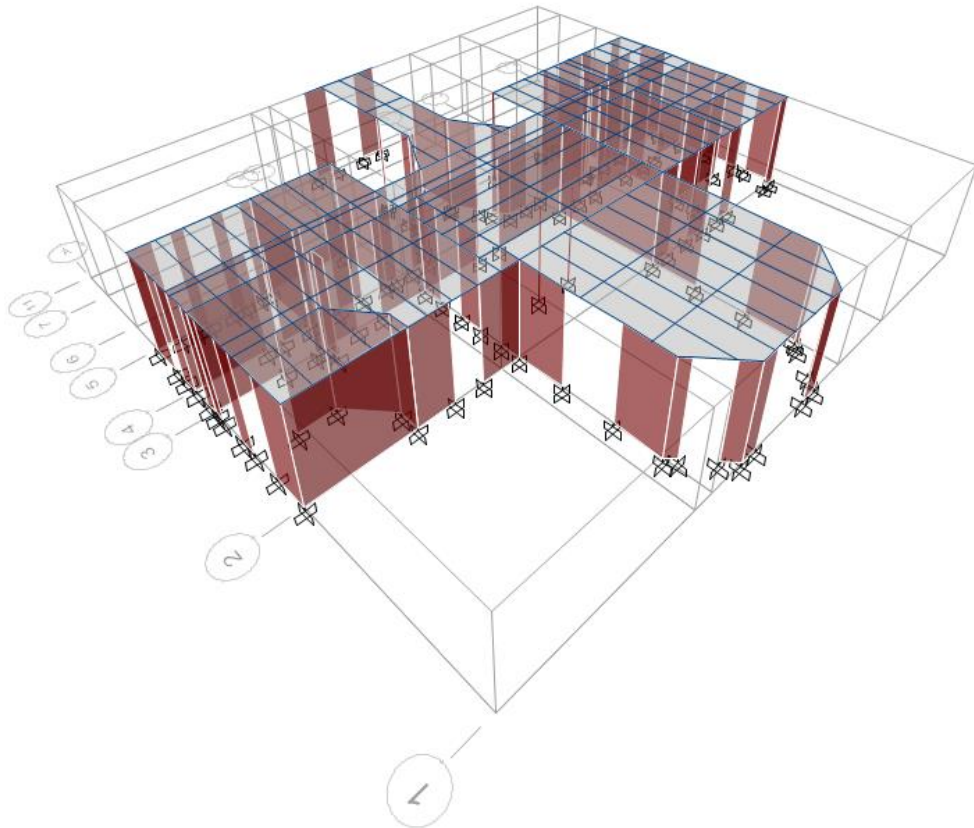
COMB 6 MAX								
NE+3.8955	38	0.0111	0.0010	0.01	0.00	0.01	0.78	0.01
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0131	0.0010	0.01	0.00	0.01	0.78	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0113	0.0053	0.01	0.01	0.01	0.78	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0170	0.0061	0.02	0.01	0.02	0.78	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0170	0.0093	0.02	0.01	0.02	0.78	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0113	0.0106	0.01	0.01	0.02	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0111	0.0169	0.01	0.02	0.02	0.78	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0131	0.0169	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00
COMB 7 MIN								
NE+3.8955	38	-0.0103	-0.0020	0.01	0.00	0.01	0.78	0.01
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0117	-0.0020	0.01	0.00	0.01	0.78	0.02
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0103	-0.0057	0.01	0.01	0.01	0.78	0.02
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0151	-0.0064	0.02	0.01	0.02	0.78	0.02
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0151	-0.0094	0.02	0.01	0.02	0.78	0.02
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0103	-0.0106	0.01	0.01	0.01	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0103	-0.0163	0.01	0.02	0.02	0.78	0.02
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0117	-0.0163	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00

COMB 8 MAX								
NE+3.8955	38	0.0133	0.0340	0.01	0.03	0.04	0.78	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	0.0128	0.0340	0.01	0.03	0.04	0.78	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	0.0103	0.0190	0.01	0.02	0.02	0.78	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	0.0259	0.0175	0.03	0.02	0.03	0.78	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	0.0259	0.0128	0.03	0.01	0.03	0.78	0.04
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	0.0103	0.0120	0.01	0.01	0.02	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	0.0133	0.0191	0.01	0.02	0.02	0.78	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	0.0128	0.0191	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00
COMB 9 MIN								
NE+3.8955	38	-0.0125	-0.0351	0.01	0.04	0.04	0.78	0.05
BASE	38	0.0000	0.0000					0.00
NE+3.8955	64	-0.0114	-0.0351	0.01	0.04	0.04	0.78	0.05
BASE	64	0.0000	0.0000					0.00
NE+3.8955	102	-0.0093	-0.0194	0.01	0.02	0.02	0.78	0.03
BASE	102	0.0000	0.0000					0.00
NE+3.8955	3	-0.0240	-0.0178	0.02	0.02	0.03	0.78	0.04
BASE	3	0.0000	0.0000					0.00
NE+3.8955	9	-0.0240	-0.0129	0.02	0.01	0.03	0.78	0.03
BASE	9	0.0000	0.0000					0.00
NE+3.8955	109	-0.0093	-0.0119	0.01	0.01	0.02	0.78	0.02
BASE	109	0.0000	0.0000					0.00
NE+3.8955	30	-0.0125	-0.0185	0.01	0.02	0.02	0.78	0.03
BASE	30	0.0000	0.0000					0.00
NE+3.8955	91	-0.0114	-0.0185	0.01	0.02	0.02	0.78	0.03
BASE	91	0.0000	0.0000					0.00

8.10 Análisis Estructural

8.10.1 Datos de Entrada

ETABS® 2015
Integrated Building Design Software



DATOS DE ENTRADA 1

716-HSJD

Model File: GRUPO 2- JARDIN INFANTIL MAMPOSTERIA, Revision 0

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1 Structure Data

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

Table 1.1 - Program Control

Program Name	Version	Level	License Number	Current Units	Steel Frame Code	Concrete Frame Code	Composite Beam Code	Composite Column Code	Shear Wall Code	Steel Connection Code
ETABS 2015	15.2.2	Ultimate	*145YDWTSYYPQR6	Varies	AISC 360-10	ACI 318-08	AISC 360-10	AISC 360-10	ACI 318-08	AISC 360-10

1.1 Story Data

Table 1.2 - Story Data

Name	Height m	Elevation m	Master Story	Similar To	Splice Story
NE+3.8955	3.8955	3.8955	No	None	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.3 - Grid Systems

Name	Type	Story Range	X Origin m	Y Origin m	Rotation deg	Bubble Size m	Color
G1	Cartesian	Default	0	0	0	1.25	ffa0a0a0

Table 1.4 - Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate m
G1	X	A	Yes	End	0
G1	X	B	Yes	End	7.2241
G1	X	C	Yes	End	8.0047
G1	X	D	Yes	End	14.8993
G1	X	E	Yes	End	17.7835
G1	X	F	Yes	End	22.8707
G1	Y	1	Yes	Start	0
G1	Y	2	Yes	Start	7.3643
G1	Y	3	Yes	Start	12.0611
G1	Y	4	Yes	Start	13.3137
G1	Y	5	Yes	Start	15.8217
G1	Y	6	Yes	Start	17.3765
G1	Y	7	Yes	Start	19.6556
G1	Y	8	No	Start	20.1583
G1	Y	9	No	Start	20.2151
G1	Y	10	No	Start	20.4702
G1	Y	11	Yes	Start	21.0771

1.3 Mass

Table 1.5 - Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault	Load Pattern	Multiplier
MsSrc1	No	No	Yes	Yes	No	Yes	Yes	PP	1
MsSrc1	No	No	Yes	Yes	No	Yes	Yes	CA	1

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Table 1.6 - Centers of Mass and Rigidity

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulative X tonf-s ² /m	Cumulative Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
NE+3.8955	D1	15.08573	15.08573	11.3431	10.7224	15.08573	15.08573	11.3431	10.7224		

Table 1.7 - Mass Summary by Diaphragm

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	Mass Moment of Inertia tonf-m-s ²	X Mass Center m	Y Mass Center m
NE+3.8955	D1	15.08573	15.08573	957.6005	11.3431	10.7224

Table 1.8 - Mass Summary by Story

Story	UX tonf-s ² /m	UY tonf-s ² /m	UZ tonf-s ² /m
NE+3.8955	15.30469	15.30469	0
Base	10.51774	10.51774	0

1.4 Groups

Table 1.9 - Group Definitions

Name	Color
All	Yellow
DERIVAS	Red

Table 1.10 - Group Assignments

Name	Object Type	Unique Name	Label	Story
DERIVAS	Point	3	3	NE+3.8955
DERIVAS	Point	9	9	NE+3.8955
DERIVAS	Point	11	3	Base
DERIVAS	Point	14	9	Base
DERIVAS	Point	90	64	NE+3.8955
DERIVAS	Point	98	64	Base
DERIVAS	Point	132	91	Base
DERIVAS	Point	133	91	NE+3.8955
DERIVAS	Point	54	38	NE+3.8955
DERIVAS	Point	112	38	Base
DERIVAS	Point	56	30	Base
DERIVAS	Point	71	30	NE+3.8955
DERIVAS	Point	163	102	NE+3.8955
DERIVAS	Point	185	102	Base
DERIVAS	Point	149	109	Base
DERIVAS	Point	192	109	NE+3.8955

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 tonf/m ²	ν	Unit Weight tonf/m ³	Design Strengths
21MPA	Concrete	2153810.58	0.2	2.4	$F_c=2812.28 \text{ tonf/m}^2$
A615Gr60	Rebar	20389019.16	0.3	7.85	$F_y=42184.18 \text{ tonf/m}^2$, $F_u=63276.27 \text{ tonf/m}^2$
M-ES3	Other	1427602.67	0.3	0.7	
Mamp	Other	715127	0.25	1.85	
SNN MET	Steel	20389019.16	0.3	0	$F_y=35153.48 \text{ tonf/m}^2$, $F_u=45699.53 \text{ tonf/m}^2$
SNN-MAD	Other	1427602.67	0.3	0	

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
C14X14	M-ES3	Concrete Rectangular
C25X25	21MPA	Concrete Rectangular
Correa	SNN MET	Steel Channel
SOLERA	SNN-MAD	Concrete Rectangular
TIRANTE	SNN-MAD	Concrete Rectangular

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness m
CUB	Slab	Membrane	SNN MET	0.0001
M012	Wall	Shell-Thin	Mamp	0.12
M014	Wall	Shell-Thin	Mamp	0.14
M015	Wall	Shell-Thin	Mamp	0.15
M016	Wall	Shell-Thin	Mamp	0.16
M017	Wall	Shell-Thin	Mamp	0.17
M018	Wall	Shell-Thin	Mamp	0.18
M021	Wall	Shell-Thin	Mamp	0.21
M026	Wall	Shell-Thin	Mamp	0.26
M028	Wall	Shell-Thin	Mamp	0.28
M030	Wall	Shell-Thin	Mamp	0.3
M032	Wall	Shell-Thin	Mamp	0.32
M033	Wall	Shell-Thin	Mamp	0.33
M038	Wall	Shell-Thin	Mamp	0.38
M046	Wall	Shell-Thin	Mamp	0.46
M070	Wall	Shell-Thin	Mamp	0.7

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
NE+3.8955	2	102	From Area	
NE+3.8955	3	3	From Area	
NE+3.8955	5	5	From Area	
NE+3.8955	7	7	From Area	
NE+3.8955	9	9	From Area	
NE+3.8955	34	42	From Area	
NE+3.8955	36	44	From Area	
NE+3.8955	37	45	From Area	
NE+3.8955	44	55	From Area	
NE+3.8955	50	66	From Area	
NE+3.8955	52	68	From Area	
NE+3.8955	54	74	From Area	
NE+3.8955	58	80	From Area	
NE+3.8955	60	82	From Area	
NE+3.8955	62	84	From Area	
NE+3.8955	64	90	From Area	
NE+3.8955	66	247	From Area	
NE+3.8955	68	94	From Area	
NE+3.8955	77	111	From Area	
NE+3.8955	79	113	From Area	
NE+3.8955	81	115	From Area	
NE+3.8955	83	119	From Area	
NE+3.8955	85	123	From Area	
NE+3.8955	87	125	From Area	
NE+3.8955	89	127	From Area	
NE+3.8955	91	133	From Area	
NE+3.8955	4	2	From Area	
NE+3.8955	8	6	From Area	
NE+3.8955	11	10	From Area	
NE+3.8955	14	198	From Area	
NE+3.8955	15	27	From Area	
NE+3.8955	17	29	From Area	
NE+3.8955	20	31	From Area	
NE+3.8955	22	34	From Area	
NE+3.8955	24	36	From Area	
NE+3.8955	26	38	From Area	
NE+3.8955	29	41	From Area	
NE+3.8955	31	48	From Area	
NE+3.8955	38	54	From Area	
NE+3.8955	69	116	From Area	
NE+3.8955	75	135	From Area	
NE+3.8955	76	136	From Area	
NE+3.8955	78	137	From Area	
NE+3.8955	80	138	From Area	
NE+3.8955	82	216	From Area	
NE+3.8955	88	360	From Area	

Story	Label	Unique Name	Diaphragm	Restraints
NE+3.8955	114	173	From Area	
NE+3.8955	115	174	From Area	
NE+3.8955	116	175	From Area	
NE+3.8955	117	176	From Area	
NE+3.8955	118	177	From Area	
NE+3.8955	119	178	From Area	
NE+3.8955	121	180	From Area	
NE+3.8955	128	206	From Area	
NE+3.8955	30	71	From Area	
NE+3.8955	33	40	From Area	
NE+3.8955	35	108	From Area	
NE+3.8955	39	110	From Area	
NE+3.8955	41	52	From Area	
NE+3.8955	42	53	From Area	
NE+3.8955	16	21	From Area	
NE+3.8955	102	163	From Area	
NE+3.8955	103	164	From Area	
NE+3.8955	179	300	From Area	
NE+3.8955	181	304	From Area	
NE+3.8955	192	315	From Area	
NE+3.8955	193	316	From Area	
NE+3.8955	196	322	From Area	
NE+3.8955	198	324	From Area	
NE+3.8955	204	330	From Area	
NE+3.8955	210	172	From Area	
NE+3.8955	215	342	From Area	
NE+3.8955	216	345	From Area	
NE+3.8955	220	349	From Area	
NE+3.8955	227	359	From Area	
NE+3.8955	230	363	From Area	
NE+3.8955	231	366	From Area	
NE+3.8955	232	367	From Area	
NE+3.8955	233	368	From Area	
NE+3.8955	234	372	From Area	
NE+3.8955	238	376	From Area	
NE+3.8955	239	377	From Area	
NE+3.8955	241	379	From Area	
NE+3.8955	243	381	From Area	
NE+3.8955	247	385	From Area	
NE+3.8955	249	387	From Area	
NE+3.8955	70	427	From Area	
NE+3.8955	92	126	From Area	
NE+3.8955	99	153	From Area	
NE+3.8955	120	195	From Area	
NE+3.8955	135	232	From Area	
NE+3.8955	137	234	From Area	
NE+3.8955	166	280	From Area	
NE+3.8955	171	287	From Area	
NE+3.8955	173	290	From Area	
NE+3.8955	176	293	From Area	
NE+3.8955	237	395	From Area	
NE+3.8955	245	399	From Area	
NE+3.8955	10	275	From Area	

Story	Label	Unique Name	Diaphragm	Restraints
NE+3.8955	32	128	From Area	
NE+3.8955	55	158	From Area	
NE+3.8955	321	274	From Area	
NE+3.8955	225	8	From Area	
NE+3.8955	332	161	From Area	
NE+3.8955	333	167	From Area	
NE+3.8955	334	205	From Area	
NE+3.8955	335	210	From Area	
NE+3.8955	341	250	From Area	
NE+3.8955	342	252	From Area	
NE+3.8955	343	258	From Area	
NE+3.8955	344	260	From Area	
NE+3.8955	345	266	From Area	
NE+3.8955	346	269	From Area	
NE+3.8955	347	272	From Area	
NE+3.8955	350	278	From Area	
NE+3.8955	12	15	From Area	
NE+3.8955	13	16	From Area	
NE+3.8955	1	1	From Area	
NE+3.8955	6	4	From Area	
NE+3.8955	18	20	From Area	
NE+3.8955	19	22	From Area	
NE+3.8955	21	23	From Area	
NE+3.8955	27	28	From Area	
NE+3.8955	40	32	From Area	
NE+3.8955	46	33	From Area	
NE+3.8955	47	35	From Area	
NE+3.8955	53	37	From Area	
NE+3.8955	65	43	From Area	
NE+3.8955	74	62	From Area	
NE+3.8955	86	337	From Area	
NE+3.8955	90	81	From Area	
NE+3.8955	93	83	From Area	
NE+3.8955	96	336	From Area	
NE+3.8955	97	107	From Area	
NE+3.8955	105	97	From Area	
NE+3.8955	106	212	From Area	
NE+3.8955	107	134	From Area	
NE+3.8955	108	148	From Area	
NE+3.8955	109	192	From Area	
NE+3.8955	110	222	From Area	
NE+3.8955	113	224	From Area	
NE+3.8955	122	103	From Area	
NE+3.8955	123	152	From Area	
NE+3.8955	125	181	From Area	
NE+3.8955	127	63	From Area	
NE+3.8955	133	150	From Area	
NE+3.8955	136	151	From Area	
NE+3.8955	138	156	From Area	
NE+3.8955	139	162	From Area	
NE+3.8955	140	179	From Area	
NE+3.8955	141	182	From Area	
NE+3.8955	142	199	From Area	

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Story	Label	Unique Name	Diaphragm	Restraints
NE+3.8955	143	200	From Area	
NE+3.8955	144	202	From Area	
NE+3.8955	145	204	From Area	
NE+3.8955	146	211	From Area	
NE+3.8955	147	213	From Area	
NE+3.8955	148	215	From Area	
NE+3.8955	149	217	From Area	
NE+3.8955	150	219	From Area	
NE+3.8955	151	221	From Area	
NE+3.8955	152	223	From Area	
NE+3.8955	153	225	From Area	
NE+3.8955	155	227	From Area	
NE+3.8955	156	228	From Area	
NE+3.8955	157	229	From Area	
NE+3.8955	158	230	From Area	
NE+3.8955	172	255	From Area	
NE+3.8955	175	448	From Area	
NE+3.8955	178	450	From Area	
NE+3.8955	182	452	From Area	
NE+3.8955	184	454	From Area	
NE+3.8955	186	456	From Area	
NE+3.8955	188	458	From Area	
NE+3.8955	191	285	From Area	
NE+3.8955	199	291	From Area	
NE+3.8955	206	298	From Area	
NE+3.8955	211	308	From Area	
NE+3.8955	212	309	From Area	
NE+3.8955	217	312	From Area	
NE+3.8955	218	313	From Area	
NE+3.8955	219	314	From Area	
NE+3.8955	221	317	From Area	
NE+3.8955	270	402	From Area	
NE+3.8955	271	403	From Area	
NE+3.8955	272	404	From Area	
NE+3.8955	273	407	From Area	
NE+3.8955	274	408	From Area	
NE+3.8955	275	409	From Area	
NE+3.8955	276	410	From Area	
NE+3.8955	277	411	From Area	
NE+3.8955	278	412	From Area	
NE+3.8955	279	413	From Area	
NE+3.8955	280	414	From Area	
NE+3.8955	281	415	From Area	
NE+3.8955	282	416	From Area	
NE+3.8955	283	417	From Area	
NE+3.8955	284	418	From Area	
NE+3.8955	285	419	From Area	
NE+3.8955	286	420	From Area	
NE+3.8955	287	421	From Area	
NE+3.8955	288	422	From Area	
NE+3.8955	289	423	From Area	
NE+3.8955	290	424	From Area	
NE+3.8955	291	425	From Area	

Story	Label	Unique Name	Diaphragm	Restraints
NE+3.8955	294	428	From Area	
NE+3.8955	295	429	From Area	
NE+3.8955	296	430	From Area	
NE+3.8955	297	431	From Area	
NE+3.8955	298	432	From Area	
NE+3.8955	299	433	From Area	
NE+3.8955	300	434	From Area	
NE+3.8955	301	435	From Area	
NE+3.8955	302	460	From Area	
NE+3.8955	303	461	From Area	
NE+3.8955	304	462	From Area	
NE+3.8955	305	463	From Area	
NE+3.8955	306	464	From Area	
NE+3.8955	307	465	From Area	
NE+3.8955	308	466	From Area	
NE+3.8955	309	467	From Area	
NE+3.8955	310	468	From Area	
NE+3.8955	311	469	From Area	
NE+3.8955	312	470	From Area	
NE+3.8955	313	471	From Area	
NE+3.8955	314	472	From Area	
NE+3.8955	315	473	From Area	
NE+3.8955	316	474	From Area	
NE+3.8955	317	475	From Area	
NE+3.8955	318	476	From Area	
NE+3.8955	319	477	From Area	
NE+3.8955	320	478	From Area	
NE+3.8955	322	479	From Area	
NE+3.8955	323	480	From Area	
NE+3.8955	336	481	From Area	
NE+3.8955	337	500	From Area	
NE+3.8955	338	489	From Area	
NE+3.8955	339	490	From Area	
NE+3.8955	340	491	From Area	
NE+3.8955	348	492	From Area	
NE+3.8955	351	493	From Area	
NE+3.8955	352	494	From Area	
NE+3.8955	353	495	From Area	
NE+3.8955	354	496	From Area	
NE+3.8955	355	497	From Area	
NE+3.8955	356	498	From Area	
NE+3.8955	357	499	From Area	
NE+3.8955	358	501	From Area	
NE+3.8955	359	502	From Area	
NE+3.8955	360	503	From Area	
NE+3.8955	361	504	From Area	
NE+3.8955	362	505	From Area	
NE+3.8955	25	30	From Area	
NE+3.8955	28	49	From Area	
NE+3.8955	43	64	From Area	
NE+3.8955	45	65	From Area	
NE+3.8955	48	72	From Area	
NE+3.8955	49	73	From Area	

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Story	Label	Unique Name	Diaphragm	Restraints
NE+3.8955	51	76	From Area	
NE+3.8955	56	426	From Area	
Base	2	101	From Area	UX; UY; UZ; RX; RY; RZ
Base	3	11	From Area	UX; UY; UZ; RX; RY; RZ
Base	5	12	From Area	UX; UY; UZ; RX; RY; RZ
Base	7	13	From Area	UX; UY; UZ; RX; RY; RZ
Base	9	14	From Area	UX; UY; UZ; RX; RY; RZ
Base	34	46	From Area	UX; UY; UZ; RX; RY; RZ
Base	36	47	From Area	UX; UY; UZ; RX; RY; RZ
Base	37	59	From Area	UX; UY; UZ; RX; RY; RZ
Base	44	58	From Area	UX; UY; UZ; RX; RY; RZ
Base	50	248	From Area	UX; UY; UZ; RX; RY; RZ
Base	52	253	From Area	UX; UY; UZ; RX; RY; RZ
Base	54	50	From Area	UX; UY; UZ; RX; RY; RZ
Base	58	86	From Area	UX; UY; UZ; RX; RY; RZ
Base	60	87	From Area	UX; UY; UZ; RX; RY; RZ
Base	62	88	From Area	UX; UY; UZ; RX; RY; RZ
Base	64	98	From Area	UX; UY; UZ; RX; RY; RZ
Base	66	246	From Area	UX; UY; UZ; RX; RY; RZ
Base	68	100	From Area	UX; UY; UZ; RX; RY; RZ
Base	77	118	From Area	UX; UY; UZ; RX; RY; RZ
Base	79	120	From Area	UX; UY; UZ; RX; RY; RZ
Base	81	121	From Area	UX; UY; UZ; RX; RY; RZ
Base	83	117	From Area	UX; UY; UZ; RX; RY; RZ
Base	85	129	From Area	UX; UY; UZ; RX; RY; RZ
Base	87	130	From Area	UX; UY; UZ; RX; RY; RZ
Base	89	131	From Area	UX; UY; UZ; RX; RY; RZ
Base	91	132	From Area	UX; UY; UZ; RX; RY; RZ
Base	4	17	From Area	UX; UY; UZ; RX; RY; RZ
Base	8	18	From Area	UX; UY; UZ; RX; RY; RZ
Base	11	19	From Area	UX; UY; UZ; RX; RY; RZ
Base	14	197	From Area	UX; UY; UZ; RX; RY; RZ
Base	15	57	From Area	UX; UY; UZ; RX; RY; RZ

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Story	Label	Unique Name	Diaphragm	Restraints
Base	17	60	From Area	UX; UY; UZ; RX; RY; RZ
Base	20	61	From Area	UX; UY; UZ; RX; RY; RZ
Base	22	233	From Area	UX; UY; UZ; RX; RY; RZ
Base	24	237	From Area	UX; UY; UZ; RX; RY; RZ
Base	26	67	From Area	UX; UY; UZ; RX; RY; RZ
Base	29	69	From Area	UX; UY; UZ; RX; RY; RZ
Base	31	75	From Area	UX; UY; UZ; RX; RY; RZ
Base	38	112	From Area	UX; UY; UZ; RX; RY; RZ
Base	69	114	From Area	UX; UY; UZ; RX; RY; RZ
Base	75	140	From Area	UX; UY; UZ; RX; RY; RZ
Base	76	141	From Area	UX; UY; UZ; RX; RY; RZ
Base	78	142	From Area	UX; UY; UZ; RX; RY; RZ
Base	80	143	From Area	UX; UY; UZ; RX; RY; RZ
Base	82	193	From Area	UX; UY; UZ; RX; RY; RZ
Base	88	357	From Area	UX; UY; UZ; RX; RY; RZ
Base	114	189	From Area	UX; UY; UZ; RX; RY; RZ
Base	115	243	From Area	UX; UY; UZ; RX; RY; RZ
Base	116	245	From Area	UX; UY; UZ; RX; RY; RZ
Base	117	79	From Area	UX; UY; UZ; RX; RY; RZ
Base	118	93	From Area	UX; UY; UZ; RX; RY; RZ
Base	119	201	From Area	UX; UY; UZ; RX; RY; RZ
Base	121	196	From Area	UX; UY; UZ; RX; RY; RZ
Base	128	209	From Area	UX; UY; UZ; RX; RY; RZ
Base	30	56	From Area	UX; UY; UZ; RX; RY; RZ
Base	33	70	From Area	UX; UY; UZ; RX; RY; RZ
Base	35	96	From Area	UX; UY; UZ; RX; RY; RZ
Base	39	109	From Area	UX; UY; UZ; RX; RY; RZ
Base	41	85	From Area	UX; UY; UZ; RX; RY; RZ
Base	42	91	From Area	UX; UY; UZ; RX; RY; RZ
Base	16	26	From Area	UX; UY; UZ; RX; RY; RZ
Base	102	185	From Area	UX; UY; UZ; RX; RY; RZ
Base	103	194	From Area	UX; UY; UZ; RX; RY; RZ

Story	Label	Unique Name	Diaphragm	Restraints
Base	179	302	From Area	UX; UY; UZ; RX; RY; RZ
Base	181	303	From Area	UX; UY; UZ; RX; RY; RZ
Base	192	318	From Area	UX; UY; UZ; RX; RY; RZ
Base	193	319	From Area	UX; UY; UZ; RX; RY; RZ
Base	196	188	From Area	UX; UY; UZ; RX; RY; RZ
Base	198	332	From Area	UX; UY; UZ; RX; RY; RZ
Base	204	333	From Area	UX; UY; UZ; RX; RY; RZ
Base	210	187	From Area	UX; UY; UZ; RX; RY; RZ
Base	215	78	From Area	UX; UY; UZ; RX; RY; RZ
Base	216	344	From Area	UX; UY; UZ; RX; RY; RZ
Base	220	348	From Area	UX; UY; UZ; RX; RY; RZ
Base	227	358	From Area	UX; UY; UZ; RX; RY; RZ
Base	230	364	From Area	UX; UY; UZ; RX; RY; RZ
Base	231	365	From Area	UX; UY; UZ; RX; RY; RZ
Base	232	369	From Area	UX; UY; UZ; RX; RY; RZ
Base	233	370	From Area	UX; UY; UZ; RX; RY; RZ
Base	234	371	From Area	UX; UY; UZ; RX; RY; RZ
Base	238	184	From Area	UX; UY; UZ; RX; RY; RZ
Base	239	165	From Area	UX; UY; UZ; RX; RY; RZ
Base	241	226	From Area	UX; UY; UZ; RX; RY; RZ
Base	243	231	From Area	UX; UY; UZ; RX; RY; RZ
Base	247	170	From Area	UX; UY; UZ; RX; RY; RZ
Base	249	171	From Area	UX; UY; UZ; RX; RY; RZ
Base	70	106	From Area	UX; UY; UZ; RX; RY; RZ
Base	92	122	From Area	UX; UY; UZ; RX; RY; RZ
Base	99	155	From Area	UX; UY; UZ; RX; RY; RZ
Base	120	186	From Area	UX; UY; UZ; RX; RY; RZ
Base	135	236	From Area	UX; UY; UZ; RX; RY; RZ
Base	137	235	From Area	UX; UY; UZ; RX; RY; RZ
Base	166	284	From Area	UX; UY; UZ; RX; RY; RZ
Base	171	288	From Area	UX; UY; UZ; RX; RY; RZ
Base	173	306	From Area	UX; UY; UZ; RX; RY; RZ

Story	Label	Unique Name	Diaphragm	Restraints
Base	176	305	From Area	UX; UY; UZ; RX; RY; RZ
Base	237	405	From Area	UX; UY; UZ; RX; RY; RZ
Base	245	406	From Area	UX; UY; UZ; RX; RY; RZ
Base	10	244	From Area	UX; UY; UZ; RX; RY; RZ
Base	32	124	From Area	UX; UY; UZ; RX; RY; RZ
Base	55	159	From Area	UX; UY; UZ; RX; RY; RZ
Base	321	51	From Area	UX; UY; UZ; RX; RY; RZ
Base	225	160	From Area	UX; UY; UZ; RX; RY; RZ
Base	332	157	From Area	UX; UY; UZ; RX; RY; RZ
Base	333	166	From Area	UX; UY; UZ; RX; RY; RZ
Base	334	203	From Area	UX; UY; UZ; RX; RY; RZ
Base	335	207	From Area	UX; UY; UZ; RX; RY; RZ
Base	341	249	From Area	UX; UY; UZ; RX; RY; RZ
Base	342	251	From Area	UX; UY; UZ; RX; RY; RZ
Base	343	257	From Area	UX; UY; UZ; RX; RY; RZ
Base	344	259	From Area	UX; UY; UZ; RX; RY; RZ
Base	345	265	From Area	UX; UY; UZ; RX; RY; RZ
Base	346	268	From Area	UX; UY; UZ; RX; RY; RZ
Base	347	271	From Area	UX; UY; UZ; RX; RY; RZ
Base	105	208	From Area	UX; UY; UZ; RX; RY; RZ
Base	106	214	From Area	UX; UY; UZ; RX; RY; RZ
Base	107	105	From Area	UX; UY; UZ; RX; RY; RZ
Base	108	147	From Area	UX; UY; UZ; RX; RY; RZ
Base	109	149	From Area	UX; UY; UZ; RX; RY; RZ
Base	110	240	From Area	UX; UY; UZ; RX; RY; RZ
Base	113	241	From Area	UX; UY; UZ; RX; RY; RZ
Base	122	95	From Area	UX; UY; UZ; RX; RY; RZ
Base	123	154	From Area	UX; UY; UZ; RX; RY; RZ
Base	125	183	From Area	UX; UY; UZ; RX; RY; RZ
Base	25	25	From Area	UX; UY; UZ; RX; RY; RZ
Base	28	39	From Area	UX; UY; UZ; RX; RY; RZ

Table 3.2 - Joint Assignments - Restraints

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Tower	Story	Label	Unique Name	UX	UY	UZ	RX	RY	RZ
	Base	2	101	Yes	Yes	Yes	Yes	Yes	Yes
	Base	3	11	Yes	Yes	Yes	Yes	Yes	Yes
	Base	5	12	Yes	Yes	Yes	Yes	Yes	Yes
	Base	7	13	Yes	Yes	Yes	Yes	Yes	Yes
	Base	9	14	Yes	Yes	Yes	Yes	Yes	Yes
	Base	34	46	Yes	Yes	Yes	Yes	Yes	Yes
	Base	36	47	Yes	Yes	Yes	Yes	Yes	Yes
	Base	37	59	Yes	Yes	Yes	Yes	Yes	Yes
	Base	44	58	Yes	Yes	Yes	Yes	Yes	Yes
	Base	50	248	Yes	Yes	Yes	Yes	Yes	Yes
	Base	52	253	Yes	Yes	Yes	Yes	Yes	Yes
	Base	54	50	Yes	Yes	Yes	Yes	Yes	Yes
	Base	58	86	Yes	Yes	Yes	Yes	Yes	Yes
	Base	60	87	Yes	Yes	Yes	Yes	Yes	Yes
	Base	62	88	Yes	Yes	Yes	Yes	Yes	Yes
	Base	64	98	Yes	Yes	Yes	Yes	Yes	Yes
	Base	66	246	Yes	Yes	Yes	Yes	Yes	Yes
	Base	68	100	Yes	Yes	Yes	Yes	Yes	Yes
	Base	77	118	Yes	Yes	Yes	Yes	Yes	Yes
	Base	79	120	Yes	Yes	Yes	Yes	Yes	Yes
	Base	81	121	Yes	Yes	Yes	Yes	Yes	Yes
	Base	83	117	Yes	Yes	Yes	Yes	Yes	Yes
	Base	85	129	Yes	Yes	Yes	Yes	Yes	Yes
	Base	87	130	Yes	Yes	Yes	Yes	Yes	Yes
	Base	89	131	Yes	Yes	Yes	Yes	Yes	Yes
	Base	91	132	Yes	Yes	Yes	Yes	Yes	Yes
	Base	4	17	Yes	Yes	Yes	Yes	Yes	Yes
	Base	8	18	Yes	Yes	Yes	Yes	Yes	Yes
	Base	11	19	Yes	Yes	Yes	Yes	Yes	Yes
	Base	14	197	Yes	Yes	Yes	Yes	Yes	Yes
	Base	15	57	Yes	Yes	Yes	Yes	Yes	Yes
	Base	17	60	Yes	Yes	Yes	Yes	Yes	Yes
	Base	20	61	Yes	Yes	Yes	Yes	Yes	Yes
	Base	22	233	Yes	Yes	Yes	Yes	Yes	Yes
	Base	24	237	Yes	Yes	Yes	Yes	Yes	Yes
	Base	26	67	Yes	Yes	Yes	Yes	Yes	Yes
	Base	29	69	Yes	Yes	Yes	Yes	Yes	Yes
	Base	31	75	Yes	Yes	Yes	Yes	Yes	Yes
	Base	38	112	Yes	Yes	Yes	Yes	Yes	Yes
	Base	69	114	Yes	Yes	Yes	Yes	Yes	Yes
	Base	75	140	Yes	Yes	Yes	Yes	Yes	Yes
	Base	76	141	Yes	Yes	Yes	Yes	Yes	Yes
	Base	78	142	Yes	Yes	Yes	Yes	Yes	Yes
	Base	80	143	Yes	Yes	Yes	Yes	Yes	Yes
	Base	82	193	Yes	Yes	Yes	Yes	Yes	Yes
	Base	88	357	Yes	Yes	Yes	Yes	Yes	Yes
	Base	114	189	Yes	Yes	Yes	Yes	Yes	Yes
	Base	115	243	Yes	Yes	Yes	Yes	Yes	Yes
	Base	116	245	Yes	Yes	Yes	Yes	Yes	Yes
	Base	117	79	Yes	Yes	Yes	Yes	Yes	Yes
	Base	118	93	Yes	Yes	Yes	Yes	Yes	Yes
	Base	119	201	Yes	Yes	Yes	Yes	Yes	Yes
	Base	121	196	Yes	Yes	Yes	Yes	Yes	Yes

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Tower	Story	Label	Unique Name	UX	UY	UZ	RX	RY	RZ
	Base	128	209	Yes	Yes	Yes	Yes	Yes	Yes
	Base	30	56	Yes	Yes	Yes	Yes	Yes	Yes
	Base	33	70	Yes	Yes	Yes	Yes	Yes	Yes
	Base	35	96	Yes	Yes	Yes	Yes	Yes	Yes
	Base	39	109	Yes	Yes	Yes	Yes	Yes	Yes
	Base	41	85	Yes	Yes	Yes	Yes	Yes	Yes
	Base	42	91	Yes	Yes	Yes	Yes	Yes	Yes
	Base	16	26	Yes	Yes	Yes	Yes	Yes	Yes
	Base	102	185	Yes	Yes	Yes	Yes	Yes	Yes
	Base	103	194	Yes	Yes	Yes	Yes	Yes	Yes
	Base	179	302	Yes	Yes	Yes	Yes	Yes	Yes
	Base	181	303	Yes	Yes	Yes	Yes	Yes	Yes
	Base	192	318	Yes	Yes	Yes	Yes	Yes	Yes
	Base	193	319	Yes	Yes	Yes	Yes	Yes	Yes
	Base	196	188	Yes	Yes	Yes	Yes	Yes	Yes
	Base	198	332	Yes	Yes	Yes	Yes	Yes	Yes
	Base	204	333	Yes	Yes	Yes	Yes	Yes	Yes
	Base	210	187	Yes	Yes	Yes	Yes	Yes	Yes
	Base	215	78	Yes	Yes	Yes	Yes	Yes	Yes
	Base	216	344	Yes	Yes	Yes	Yes	Yes	Yes
	Base	220	348	Yes	Yes	Yes	Yes	Yes	Yes
	Base	227	358	Yes	Yes	Yes	Yes	Yes	Yes
	Base	230	364	Yes	Yes	Yes	Yes	Yes	Yes
	Base	231	365	Yes	Yes	Yes	Yes	Yes	Yes
	Base	232	369	Yes	Yes	Yes	Yes	Yes	Yes
	Base	233	370	Yes	Yes	Yes	Yes	Yes	Yes
	Base	234	371	Yes	Yes	Yes	Yes	Yes	Yes
	Base	238	184	Yes	Yes	Yes	Yes	Yes	Yes
	Base	239	165	Yes	Yes	Yes	Yes	Yes	Yes
	Base	241	226	Yes	Yes	Yes	Yes	Yes	Yes
	Base	243	231	Yes	Yes	Yes	Yes	Yes	Yes
	Base	247	170	Yes	Yes	Yes	Yes	Yes	Yes
	Base	249	171	Yes	Yes	Yes	Yes	Yes	Yes
	Base	70	106	Yes	Yes	Yes	Yes	Yes	Yes
	Base	92	122	Yes	Yes	Yes	Yes	Yes	Yes
	Base	99	155	Yes	Yes	Yes	Yes	Yes	Yes
	Base	120	186	Yes	Yes	Yes	Yes	Yes	Yes
	Base	135	236	Yes	Yes	Yes	Yes	Yes	Yes
	Base	137	235	Yes	Yes	Yes	Yes	Yes	Yes
	Base	166	284	Yes	Yes	Yes	Yes	Yes	Yes
	Base	171	288	Yes	Yes	Yes	Yes	Yes	Yes
	Base	173	306	Yes	Yes	Yes	Yes	Yes	Yes
	Base	176	305	Yes	Yes	Yes	Yes	Yes	Yes
	Base	237	405	Yes	Yes	Yes	Yes	Yes	Yes
	Base	245	406	Yes	Yes	Yes	Yes	Yes	Yes
	Base	10	244	Yes	Yes	Yes	Yes	Yes	Yes
	Base	32	124	Yes	Yes	Yes	Yes	Yes	Yes
	Base	55	159	Yes	Yes	Yes	Yes	Yes	Yes
	Base	321	51	Yes	Yes	Yes	Yes	Yes	Yes
	Base	225	160	Yes	Yes	Yes	Yes	Yes	Yes
	Base	332	157	Yes	Yes	Yes	Yes	Yes	Yes
	Base	333	166	Yes	Yes	Yes	Yes	Yes	Yes
	Base	334	203	Yes	Yes	Yes	Yes	Yes	Yes
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Tower	Story	Label	Unique Name	UX	UY	UZ	RX	RY	RZ
	Base	335	207	Yes	Yes	Yes	Yes	Yes	Yes
	Base	341	249	Yes	Yes	Yes	Yes	Yes	Yes
	Base	342	251	Yes	Yes	Yes	Yes	Yes	Yes
	Base	343	257	Yes	Yes	Yes	Yes	Yes	Yes
	Base	344	259	Yes	Yes	Yes	Yes	Yes	Yes
	Base	345	265	Yes	Yes	Yes	Yes	Yes	Yes
	Base	346	268	Yes	Yes	Yes	Yes	Yes	Yes
	Base	347	271	Yes	Yes	Yes	Yes	Yes	Yes
	Base	105	208	Yes	Yes	Yes	Yes	Yes	Yes
	Base	106	214	Yes	Yes	Yes	Yes	Yes	Yes
	Base	107	105	Yes	Yes	Yes	Yes	Yes	Yes
	Base	108	147	Yes	Yes	Yes	Yes	Yes	Yes
	Base	109	149	Yes	Yes	Yes	Yes	Yes	Yes
	Base	110	240	Yes	Yes	Yes	Yes	Yes	Yes
	Base	113	241	Yes	Yes	Yes	Yes	Yes	Yes
	Base	122	95	Yes	Yes	Yes	Yes	Yes	Yes
	Base	123	154	Yes	Yes	Yes	Yes	Yes	Yes
	Base	125	183	Yes	Yes	Yes	Yes	Yes	Yes
	Base	25	25	Yes	Yes	Yes	Yes	Yes	Yes
	Base	28	39	Yes	Yes	Yes	Yes	Yes	Yes

3.2 Frame Assignments

Table 3.3 - Frame Assignments - Summary

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+3.8955	C1	28	Column	3.8955	C25X25	N/A	11	No
NE+3.8955	C6	30	Column	3.8955	C14X14	N/A	11	No
NE+3.8955	C7	32	Column	3.8955	C14X14	N/A	11	No
NE+3.8955	C2	11	Column	3.8955	C14X14	N/A	11	No
NE+3.8955	C3	12	Column	3.8955	C14X14	N/A	11	No
NE+3.8955	B23	38	Beam	1.824	SOLERA	N/A	11	No
NE+3.8955	B24	39	Beam	2.0406	SOLERA	N/A	11	No
NE+3.8955	B25	40	Beam	1.8695	SOLERA	N/A	11	No
NE+3.8955	B29	91	Beam	1.3908	SOLERA	N/A	11	No
NE+3.8955	B30	44	Beam	0.774	SOLERA	N/A	11	No
NE+3.8955	B31	45	Beam	1.97359	SOLERA	N/A	11	No
NE+3.8955	B33	116	Beam	2.3598	SOLERA	N/A	11	No
NE+3.8955	B34	117	Beam	1.1252	SOLERA	N/A	11	No
NE+3.8955	B36	121	Beam	0.9918	SOLERA	N/A	11	No
NE+3.8955	B41	129	Beam	1.1856	SOLERA	N/A	11	No
NE+3.8955	B42	130	Beam	0.8162	SOLERA	N/A	11	No
NE+3.8955	B43	131	Beam	1.8115	SOLERA	N/A	11	No
NE+3.8955	B55	109	Beam	2.4852	SOLERA	N/A	11	No
NE+3.8955	B56	110	Beam	0.57	SOLERA	N/A	11	No
NE+3.8955	B58	113	Beam	0.8892	SOLERA	N/A	11	No
NE+3.8955	B59	114	Beam	1.0146	SOLERA	N/A	11	No
NE+3.8955	B60	115	Beam	0.9769	SOLERA	N/A	11	No
NE+3.8955	B61	156	Beam	0.4884	SOLERA	N/A	11	No
NE+3.8955	B62	157	Beam	0.7349	SOLERA	N/A	11	No
NE+3.8955	B72	50	Beam	2.508	SOLERA	N/A	11	No
NE+3.8955	B79	151	Beam	0.8209	SOLERA	N/A	11	No

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Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+3.8955	B80	10	Beam	1.0146	SOLERA	N/A	11	No
NE+3.8955	B81	6	Beam	0.9348	SOLERA	N/A	11	No
NE+3.8955	B82	9	Beam	1.0146	SOLERA	N/A	11	No
NE+3.8955	B83	7	Beam	0.9119	SOLERA	N/A	11	No
NE+3.8955	B91	52	Beam	2.508	SOLERA	N/A	11	No
NE+3.8955	B5	162	Beam	0.5244	SOLERA	N/A	11	No
NE+3.8955	B235	34	Beam	0.7524	SOLERA	N/A	11	No
NE+3.8955	B236	35	Beam	0.61978	SOLERA	N/A	11	No
NE+3.8955	B237	36	Beam	1.13374	SOLERA	N/A	11	No
NE+3.8955	B238	37	Beam	0.40815	SOLERA	N/A	11	No
NE+3.8955	B248	59	Beam	0.6514	SOLERA	N/A	11	No
NE+3.8955	B255	69	Beam	2.1318	SOLERA	N/A	11	No
NE+3.8955	B263	80	Beam	3.5068	SOLERA	N/A	11	No
NE+3.8955	B273	90	Beam	0.75	SOLERA	N/A	11	No
NE+3.8955	B274	92	Beam	1.14	SOLERA	N/A	11	No
NE+3.8955	B275	93	Beam	0.7182	SOLERA	N/A	11	No
NE+3.8955	B276	94	Beam	1.0488	SOLERA	N/A	11	No
NE+3.8955	B277	95	Beam	0.3991	SOLERA	N/A	11	No
NE+3.8955	B278	96	Beam	0.4445	SOLERA	N/A	11	No
NE+3.8955	B279	97	Beam	0.808	SOLERA	N/A	11	No
NE+3.8955	B280	98	Beam	0.6744	SOLERA	N/A	11	No
NE+3.8955	B281	99	Beam	0.5814	SOLERA	N/A	11	No
NE+3.8955	B282	100	Beam	1.2522	SOLERA	N/A	11	No
NE+3.8955	B291	111	Beam	1.0362	SOLERA	N/A	11	No
NE+3.8955	B292	112	Beam	0.252	SOLERA	N/A	11	No
NE+3.8955	B293	118	Beam	0.3077	SOLERA	N/A	11	No
NE+3.8955	B294	119	Beam	0.15	SOLERA	N/A	11	No
NE+3.8955	B295	120	Beam	1.1987	SOLERA	N/A	11	No
NE+3.8955	B296	122	Beam	1.8715	SOLERA	N/A	11	No
NE+3.8955	B297	123	Beam	2.5745	SOLERA	N/A	11	No
NE+3.8955	B298	124	Beam	0.9918	SOLERA	N/A	11	No
NE+3.8955	B299	125	Beam	3.3283	SOLERA	N/A	11	No
NE+3.8955	B300	126	Beam	1.2237	SOLERA	N/A	11	No
NE+3.8955	B301	127	Beam	0.969	SOLERA	N/A	11	No
NE+3.8955	B302	128	Beam	1.9654	SOLERA	N/A	11	No
NE+3.8955	B303	132	Beam	1.2906	SOLERA	N/A	11	No
NE+3.8955	B304	133	Beam	0.5073	SOLERA	N/A	11	No
NE+3.8955	B306	135	Beam	1.3599	SOLERA	N/A	11	No
NE+3.8955	B314	143	Beam	1.8923	SOLERA	N/A	11	No
NE+3.8955	B316	145	Beam	1.9266	SOLERA	N/A	11	No
NE+3.8955	B317	146	Beam	2.0178	SOLERA	N/A	11	No
NE+3.8955	B318	147	Beam	1.19159	SOLERA	N/A	11	No
NE+3.8955	B319	148	Beam	0.28598	SOLERA	N/A	11	No
NE+3.8955	B320	149	Beam	2.5671	SOLERA	N/A	11	No
NE+3.8955	B321	150	Beam	0.6726	SOLERA	N/A	11	No
NE+3.8955	B322	158	Beam	0.7296	SOLERA	N/A	11	No
NE+3.8955	B323	159	Beam	0.72879	SOLERA	N/A	11	No
NE+3.8955	B324	160	Beam	0.57765	SOLERA	N/A	11	No
NE+3.8955	B325	161	Beam	1.09319	SOLERA	N/A	11	No
NE+3.8955	B326	163	Beam	1.2654	SOLERA	N/A	11	No
NE+3.8955	B327	164	Beam	0.171	SOLERA	N/A	11	No
NE+3.8955	B330	170	Beam	1.12485	SOLERA	N/A	11	No

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NE+3.8955	B331	171	Beam	0.58055	SOLERA	N/A	11	No
NE+3.8955	B334	174	Beam	1.0739	SOLERA	N/A	11	No
NE+3.8955	B343	183	Beam	1.4015	SOLERA	N/A	11	No
NE+3.8955	B4	8	Beam	3.7006	SOLERA	N/A	11	No
NE+3.8955	B1	1	Beam	6.8946	TIRANTE	N/A	11	Yes
NE+3.8955	B2	3	Beam	6.8946	TIRANTE	N/A	11	Yes
NE+3.8955	B13	207	Beam	1.8426	TIRANTE	N/A	11	Yes
NE+3.8955	B16	355	Beam	5.9129	TIRANTE	N/A	11	Yes
NE+3.8955	B18	15	Beam	0.7664	SOLERA	N/A	11	No
NE+3.8955	B35	41	Beam	8.0047	SOLERA	N/A	11	No
NE+3.8955	B47	21	Beam	2.8191	SOLERA	N/A	11	No
NE+3.8955	B54	309	Beam	7.2241	TIRANTE	N/A	11	Yes
NE+3.8955	B63	317	Beam	7.2241	TIRANTE	N/A	11	Yes
NE+3.8955	B70	251	Beam	7.9714	TIRANTE	N/A	11	Yes
NE+3.8955	B73	237	Beam	0.9414	SOLERA	N/A	11	No
NE+3.8955	B75	56	Beam	1.0212	SOLERA	N/A	11	No
NE+3.8955	B76	57	Beam	0.5178	SOLERA	N/A	11	No
NE+3.8955	B77	220	Beam	7.9714	TIRANTE	N/A	11	Yes
NE+3.8955	B84	61	Beam	6.8946	TIRANTE	N/A	11	Yes
NE+3.8955	B95	76	Beam	2.508	SOLERA	N/A	11	No
NE+3.8955	B97	86	Beam	2.508	SOLERA	N/A	11	No
NE+3.8955	B98	172	Beam	0.74274	SOLERA	N/A	11	No
NE+3.8955	B99	173	Beam	1.4341	SOLERA	N/A	11	No
NE+3.8955	B100	182	Beam	1.1065	SOLERA	N/A	11	No
NE+3.8955	B111	22	Beam	3.1303	SOLERA	N/A	11	No
NE+3.8955	B112	51	Beam	7.9714	SOLERA	N/A	11	No
NE+3.8955	B115	65	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B116	66	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B117	67	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B118	68	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B119	70	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B120	71	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B121	72	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B122	73	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B123	74	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B124	75	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B125	78	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B126	81	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B128	83	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B129	84	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B130	85	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B131	87	Beam	2.45477	Correa	N/A	11	Yes
NE+3.8955	B152	205	Beam	0.78305	Correa	N/A	11	Yes
NE+3.8955	B153	202	Beam	1.4484	Correa	N/A	11	Yes
NE+3.8955	B159	209	Beam	4.7634	Correa	N/A	11	Yes
NE+3.8955	B160	210	Beam	3	Correa	N/A	11	Yes
NE+3.8955	B161	108	Beam	1.9418	Correa	N/A	11	Yes
NE+3.8955	B162	82	Beam	1.95563	Correa	N/A	11	Yes
NE+3.8955	B193	238	Beam	0.3112	SOLERA	N/A	11	No
NE+3.8955	B227	272	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B228	273	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B229	274	Beam	2.8192	Correa	N/A	11	Yes

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Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+3.8955	B230	275	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B231	276	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B232	277	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B233	278	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B234	279	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B241	280	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B242	281	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B243	282	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B244	283	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B245	284	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B246	285	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B247	286	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B249	287	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B252	290	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B253	291	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B254	292	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B256	293	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B257	294	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B258	295	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B366	325	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B367	326	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B368	327	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B369	328	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B370	329	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B371	330	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B372	331	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B373	332	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B374	333	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B375	334	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B376	335	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B377	336	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B378	337	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B379	338	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B380	339	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B381	340	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B382	341	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B383	342	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B384	343	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B385	344	Beam	2.8191	Correa	N/A	11	Yes
NE+3.8955	B386	345	Beam	2.8192	Correa	N/A	11	Yes
NE+3.8955	B403	358	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B404	350	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B405	351	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B406	352	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B407	353	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B408	354	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B412	357	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B413	359	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B414	360	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B415	361	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B416	362	Beam	3.8376	Correa	N/A	11	Yes
NE+3.8955	B417	363	Beam	3.8376	Correa	N/A	11	Yes

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Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Min Number Stations	Releases
NE+3.8955	B3	63	Beam	4.2134	TIRANTE	N/A	11	Yes
NE+3.8955	B6	2	Beam	1.5089	SOLERA	N/A	11	No
NE+3.8955	B9	88	Beam	1.8426	SOLERA	N/A	11	No
NE+3.8955	B17	101	Beam	7.2241	SOLERA	N/A	11	No
NE+3.8955	B37	136	Beam	7.9714	SOLERA	N/A	11	No
NE+3.8955	B69	181	Beam	7.9714	SOLERA	N/A	11	No
NE+3.8955	B74	24	Beam	5.9494	SOLERA	N/A	11	No
NE+3.8955	B10	46	Beam	2.6011	SOLERA	N/A	11	No
NE+3.8955	B11	4	Beam	4.6969	SOLERA	N/A	11	No
NE+3.8955	B12	5	Beam	3.8133	SOLERA	N/A	11	No
NE+3.8955	B14	77	Beam	2.50801	SOLERA	N/A	11	No
NE+3.8955	B15	79	Beam	2.6617	SOLERA	N/A	11	No
NE+3.8955	B7	288	Beam	2.81911	Correa	N/A	11	Yes

Table 3.4 - Frame Assignments - Releases (Part 1 of 2)

Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.8955	C1	28	Column	None	None	None	None	None	None			
NE+3.8955	C6	30	Column	None	None	None	None	None	None			
NE+3.8955	C7	32	Column	None	None	None	None	None	None			
NE+3.8955	C2	11	Column	None	None	None	None	None	None			
NE+3.8955	C3	12	Column	None	None	None	None	None	None			
NE+3.8955	B23	38	Beam	None	None	None	None	None	None			
NE+3.8955	B24	39	Beam	None	None	None	None	None	None			
NE+3.8955	B25	40	Beam	None	None	None	None	None	None			
NE+3.8955	B29	91	Beam	None	None	None	None	None	None			
NE+3.8955	B30	44	Beam	None	None	None	None	None	None			
NE+3.8955	B31	45	Beam	None	None	None	None	None	None			
NE+3.8955	B33	116	Beam	None	None	None	None	None	None			
NE+3.8955	B34	117	Beam	None	None	None	None	None	None			
NE+3.8955	B36	121	Beam	None	None	None	None	None	None			
NE+3.8955	B41	129	Beam	None	None	None	None	None	None			
NE+3.8955	B42	130	Beam	None	None	None	None	None	None			
NE+3.8955	B43	131	Beam	None	None	None	None	None	None			
NE+3.8955	B55	109	Beam	None	None	None	None	None	None			
NE+3.8955	B56	110	Beam	None	None	None	None	None	None			
NE+3.8955	B58	113	Beam	None	None	None	None	None	None			
NE+3.8955	B59	114	Beam	None	None	None	None	None	None			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.895 5	B60	115	Beam	None	None	None	None	None	None			
NE+3.895 5	B61	156	Beam	None	None	None	None	None	None			
NE+3.895 5	B62	157	Beam	None	None	None	None	None	None			
NE+3.895 5	B72	50	Beam	None	None	None	None	None	None			
NE+3.895 5	B79	151	Beam	None	None	None	None	None	None			
NE+3.895 5	B80	10	Beam	None	None	None	None	None	None			
NE+3.895 5	B81	6	Beam	None	None	None	None	None	None			
NE+3.895 5	B82	9	Beam	None	None	None	None	None	None			
NE+3.895 5	B83	7	Beam	None	None	None	None	None	None			
NE+3.895 5	B91	52	Beam	None	None	None	None	None	None			
NE+3.895 5	B5	162	Beam	None	None	None	None	None	None			
NE+3.895 5	B235	34	Beam	None	None	None	None	None	None			
NE+3.895 5	B236	35	Beam	None	None	None	None	None	None			
NE+3.895 5	B237	36	Beam	None	None	None	None	None	None			
NE+3.895 5	B238	37	Beam	None	None	None	None	None	None			
NE+3.895 5	B248	59	Beam	None	None	None	None	None	None			
NE+3.895 5	B255	69	Beam	None	None	None	None	None	None			
NE+3.895 5	B263	80	Beam	None	None	None	None	None	None			
NE+3.895 5	B273	90	Beam	None	None	None	None	None	None			
NE+3.895 5	B274	92	Beam	None	None	None	None	None	None			
NE+3.895 5	B275	93	Beam	None	None	None	None	None	None			
NE+3.895 5	B276	94	Beam	None	None	None	None	None	None			
NE+3.895 5	B277	95	Beam	None	None	None	None	None	None			
NE+3.895 5	B278	96	Beam	None	None	None	None	None	None			
NE+3.895 5	B279	97	Beam	None	None	None	None	None	None			
NE+3.895 5	B280	98	Beam	None	None	None	None	None	None			
NE+3.895 5	B281	99	Beam	None	None	None	None	None	None			
NE+3.895 5	B282	100	Beam	None	None	None	None	None	None			
NE+3.895 5	B291	111	Beam	None	None	None	None	None	None			
NE+3.895 5	B292	112	Beam	None	None	None	None	None	None			
NE+3.895 5	B293	118	Beam	None	None	None	None	None	None			
NE+3.895 5	B294	119	Beam	None	None	None	None	None	None			

Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.895 5	B295	120	Beam	None	None	None	None	None	None			
NE+3.895 5	B296	122	Beam	None	None	None	None	None	None			
NE+3.895 5	B297	123	Beam	None	None	None	None	None	None			
NE+3.895 5	B298	124	Beam	None	None	None	None	None	None			
NE+3.895 5	B299	125	Beam	None	None	None	None	None	None			
NE+3.895 5	B300	126	Beam	None	None	None	None	None	None			
NE+3.895 5	B301	127	Beam	None	None	None	None	None	None			
NE+3.895 5	B302	128	Beam	None	None	None	None	None	None			
NE+3.895 5	B303	132	Beam	None	None	None	None	None	None			
NE+3.895 5	B304	133	Beam	None	None	None	None	None	None			
NE+3.895 5	B306	135	Beam	None	None	None	None	None	None			
NE+3.895 5	B314	143	Beam	None	None	None	None	None	None			
NE+3.895 5	B316	145	Beam	None	None	None	None	None	None			
NE+3.895 5	B317	146	Beam	None	None	None	None	None	None			
NE+3.895 5	B318	147	Beam	None	None	None	None	None	None			
NE+3.895 5	B319	148	Beam	None	None	None	None	None	None			
NE+3.895 5	B320	149	Beam	None	None	None	None	None	None			
NE+3.895 5	B321	150	Beam	None	None	None	None	None	None			
NE+3.895 5	B322	158	Beam	None	None	None	None	None	None			
NE+3.895 5	B323	159	Beam	None	None	None	None	None	None			
NE+3.895 5	B324	160	Beam	None	None	None	None	None	None			
NE+3.895 5	B325	161	Beam	None	None	None	None	None	None			
NE+3.895 5	B326	163	Beam	None	None	None	None	None	None			
NE+3.895 5	B327	164	Beam	None	None	None	None	None	None			
NE+3.895 5	B330	170	Beam	None	None	None	None	None	None			
NE+3.895 5	B331	171	Beam	None	None	None	None	None	None			
NE+3.895 5	B334	174	Beam	None	None	None	None	None	None			
NE+3.895 5	B343	183	Beam	None	None	None	None	None	None			
NE+3.895 5	B4	8	Beam	None	None	None	None	None	None			
NE+3.895 5	B1	1	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B2	3	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B13	207	Beam	None	None	None	End I	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.895 5	B16	355	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B18	15	Beam	None	None	None	None	None	None			
NE+3.895 5	B35	41	Beam	None	None	None	None	None	None			
NE+3.895 5	B47	21	Beam	None	None	None	None	None	None			
NE+3.895 5	B54	309	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B63	317	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B70	251	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B73	237	Beam	None	None	None	None	None	None			
NE+3.895 5	B75	56	Beam	None	None	None	None	None	None			
NE+3.895 5	B76	57	Beam	None	None	None	None	None	None			
NE+3.895 5	B77	220	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B84	61	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B95	76	Beam	None	None	None	None	None	None			
NE+3.895 5	B97	86	Beam	None	None	None	None	None	None			
NE+3.895 5	B98	172	Beam	None	None	None	None	None	None			
NE+3.895 5	B99	173	Beam	None	None	None	None	None	None			
NE+3.895 5	B100	182	Beam	None	None	None	None	None	None			
NE+3.895 5	B111	22	Beam	None	None	None	None	None	None			
NE+3.895 5	B112	51	Beam	None	None	None	None	None	None			
NE+3.895 5	B115	65	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B116	66	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B117	67	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B118	68	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B119	70	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B120	71	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B121	72	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B122	73	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B123	74	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B124	75	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B125	78	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B126	81	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B128	83	Beam	None	None	None	End J	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.895 5	B129	84	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B130	85	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B131	87	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B152	205	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B153	202	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B159	209	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B160	210	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B161	108	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B162	82	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B193	238	Beam	None	None	None	None	None	None			
NE+3.895 5	B227	272	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B228	273	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B229	274	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B230	275	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B231	276	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B232	277	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B233	278	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B234	279	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B241	280	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B242	281	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B243	282	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B244	283	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B245	284	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B246	285	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B247	286	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B249	287	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B252	290	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B253	291	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B254	292	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B256	293	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B257	294	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B258	295	Beam	None	None	None	End J	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.895 5	B366	325	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B367	326	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B368	327	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B369	328	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B370	329	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B371	330	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B372	331	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B373	332	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B374	333	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B375	334	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B376	335	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B377	336	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B378	337	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B379	338	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B380	339	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B381	340	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B382	341	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B383	342	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B384	343	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B385	344	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B386	345	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B403	358	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B404	350	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B405	351	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B406	352	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B407	353	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B408	354	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B412	357	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B413	359	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B414	360	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B415	361	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B416	362	Beam	None	None	None	End J	Both	Both			

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Story	Label	Unique Name	Design Type	P	V2	V3	T	M2	M3	Partial P I-end tonf/m	Partial V2 I-end tonf/m	Partial V3 I-end tonf/m
NE+3.895 5	B417	363	Beam	None	None	None	End J	Both	Both			
NE+3.895 5	B3	63	Beam	None	None	None	End I	Both	Both			
NE+3.895 5	B6	2	Beam	None	None	None	None	None	None			
NE+3.895 5	B9	88	Beam	None	None	None	None	None	None			
NE+3.895 5	B17	101	Beam	None	None	None	None	None	None			
NE+3.895 5	B37	136	Beam	None	None	None	None	None	None			
NE+3.895 5	B69	181	Beam	None	None	None	None	None	None			
NE+3.895 5	B74	24	Beam	None	None	None	None	None	None			
NE+3.895 5	B10	46	Beam	None	None	None	None	None	None			
NE+3.895 5	B11	4	Beam	None	None	None	None	None	None			
NE+3.895 5	B12	5	Beam	None	None	None	None	None	None			
NE+3.895 5	B14	77	Beam	None	None	None	None	None	None			
NE+3.895 5	B15	79	Beam	None	None	None	None	None	None			
NE+3.895 5	B7	288	Beam	None	None	None	End J	Both	Both			

Table 3.4 - Frame Assignments - Releases (Part 2 of 2)

Story	Label	Unique Name	Partial T I-end tonf-m/rad	Partial M2 I-end tonf-m/rad	Partial M3 I-end tonf-m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf-m/rad	Partial M2 J-end tonf-m/rad	Partial M3 J-end tonf-m/rad
NE+3.895 5	C1	28									
NE+3.895 5	C6	30									
NE+3.895 5	C7	32									
NE+3.895 5	C2	11									
NE+3.895 5	C3	12									
NE+3.895 5	B23	38									
NE+3.895 5	B24	39									
NE+3.895 5	B25	40									
NE+3.895 5	B29	91									
NE+3.895 5	B30	44									
NE+3.895 5	B31	45									
NE+3.895 5	B33	116									
NE+3.895 5	B34	117									
NE+3.895 5	B36	121									

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Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+3.895 5	B41	129									
NE+3.895 5	B42	130									
NE+3.895 5	B43	131									
NE+3.895 5	B55	109									
NE+3.895 5	B56	110									
NE+3.895 5	B58	113									
NE+3.895 5	B59	114									
NE+3.895 5	B60	115									
NE+3.895 5	B61	156									
NE+3.895 5	B62	157									
NE+3.895 5	B72	50									
NE+3.895 5	B79	151									
NE+3.895 5	B80	10									
NE+3.895 5	B81	6									
NE+3.895 5	B82	9									
NE+3.895 5	B83	7									
NE+3.895 5	B91	52									
NE+3.895 5	B5	162									
NE+3.895 5	B235	34									
NE+3.895 5	B236	35									
NE+3.895 5	B237	36									
NE+3.895 5	B238	37									
NE+3.895 5	B248	59									
NE+3.895 5	B255	69									
NE+3.895 5	B263	80									
NE+3.895 5	B273	90									
NE+3.895 5	B274	92									
NE+3.895 5	B275	93									
NE+3.895 5	B276	94									
NE+3.895 5	B277	95									
NE+3.895 5	B278	96									

Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+3.895 5	B279	97									
NE+3.895 5	B280	98									
NE+3.895 5	B281	99									
NE+3.895 5	B282	100									
NE+3.895 5	B291	111									
NE+3.895 5	B292	112									
NE+3.895 5	B293	118									
NE+3.895 5	B294	119									
NE+3.895 5	B295	120									
NE+3.895 5	B296	122									
NE+3.895 5	B297	123									
NE+3.895 5	B298	124									
NE+3.895 5	B299	125									
NE+3.895 5	B300	126									
NE+3.895 5	B301	127									
NE+3.895 5	B302	128									
NE+3.895 5	B303	132									
NE+3.895 5	B304	133									
NE+3.895 5	B306	135									
NE+3.895 5	B314	143									
NE+3.895 5	B316	145									
NE+3.895 5	B317	146									
NE+3.895 5	B318	147									
NE+3.895 5	B319	148									
NE+3.895 5	B320	149									
NE+3.895 5	B321	150									
NE+3.895 5	B322	158									
NE+3.895 5	B323	159									
NE+3.895 5	B324	160									
NE+3.895 5	B325	161									
NE+3.895 5	B326	163									

Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+3.895 5	B327	164									
NE+3.895 5	B330	170									
NE+3.895 5	B331	171									
NE+3.895 5	B334	174									
NE+3.895 5	B343	183									
NE+3.895 5	B4	8									
NE+3.895 5	B1	1									
NE+3.895 5	B2	3									
NE+3.895 5	B13	207									
NE+3.895 5	B16	355									
NE+3.895 5	B18	15									
NE+3.895 5	B35	41									
NE+3.895 5	B47	21									
NE+3.895 5	B54	309									
NE+3.895 5	B63	317									
NE+3.895 5	B70	251									
NE+3.895 5	B73	237									
NE+3.895 5	B75	56									
NE+3.895 5	B76	57									
NE+3.895 5	B77	220									
NE+3.895 5	B84	61									
NE+3.895 5	B95	76									
NE+3.895 5	B97	86									
NE+3.895 5	B98	172									
NE+3.895 5	B99	173									
NE+3.895 5	B100	182									
NE+3.895 5	B111	22									
NE+3.895 5	B112	51									
NE+3.895 5	B115	65									
NE+3.895 5	B116	66									
NE+3.895 5	B117	67									

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Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+3.895 5	B118	68									
NE+3.895 5	B119	70									
NE+3.895 5	B120	71									
NE+3.895 5	B121	72									
NE+3.895 5	B122	73									
NE+3.895 5	B123	74									
NE+3.895 5	B124	75									
NE+3.895 5	B125	78									
NE+3.895 5	B126	81									
NE+3.895 5	B128	83									
NE+3.895 5	B129	84									
NE+3.895 5	B130	85									
NE+3.895 5	B131	87									
NE+3.895 5	B152	205									
NE+3.895 5	B153	202									
NE+3.895 5	B159	209									
NE+3.895 5	B160	210									
NE+3.895 5	B161	108									
NE+3.895 5	B162	82									
NE+3.895 5	B193	238									
NE+3.895 5	B227	272									
NE+3.895 5	B228	273									
NE+3.895 5	B229	274									
NE+3.895 5	B230	275									
NE+3.895 5	B231	276									
NE+3.895 5	B232	277									
NE+3.895 5	B233	278									
NE+3.895 5	B234	279									
NE+3.895 5	B241	280									
NE+3.895 5	B242	281									
NE+3.895 5	B243	282									

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Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+3.895 5	B244	283									
NE+3.895 5	B245	284									
NE+3.895 5	B246	285									
NE+3.895 5	B247	286									
NE+3.895 5	B249	287									
NE+3.895 5	B252	290									
NE+3.895 5	B253	291									
NE+3.895 5	B254	292									
NE+3.895 5	B256	293									
NE+3.895 5	B257	294									
NE+3.895 5	B258	295									
NE+3.895 5	B366	325									
NE+3.895 5	B367	326									
NE+3.895 5	B368	327									
NE+3.895 5	B369	328									
NE+3.895 5	B370	329									
NE+3.895 5	B371	330									
NE+3.895 5	B372	331									
NE+3.895 5	B373	332									
NE+3.895 5	B374	333									
NE+3.895 5	B375	334									
NE+3.895 5	B376	335									
NE+3.895 5	B377	336									
NE+3.895 5	B378	337									
NE+3.895 5	B379	338									
NE+3.895 5	B380	339									
NE+3.895 5	B381	340									
NE+3.895 5	B382	341									
NE+3.895 5	B383	342									
NE+3.895 5	B384	343									
NE+3.895 5	B385	344									

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Story	Label	Unique Name	Partial T I- end tonf- m/rad	Partial M2 I-end tonf- m/rad	Partial M3 I-end tonf- m/rad	Partial P J-end tonf/m	Partial V2 J-end tonf/m	Partial V3 J-end tonf/m	Partial T J-end tonf- m/rad	Partial M2 J-end tonf- m/rad	Partial M3 J-end tonf- m/rad
NE+3.895 5	B386	345									
NE+3.895 5	B403	358									
NE+3.895 5	B404	350									
NE+3.895 5	B405	351									
NE+3.895 5	B406	352									
NE+3.895 5	B407	353									
NE+3.895 5	B408	354									
NE+3.895 5	B412	357									
NE+3.895 5	B413	359									
NE+3.895 5	B414	360									
NE+3.895 5	B415	361									
NE+3.895 5	B416	362									
NE+3.895 5	B417	363									
NE+3.895 5	B3	63									
NE+3.895 5	B6	2									
NE+3.895 5	B9	88									
NE+3.895 5	B17	101									
NE+3.895 5	B37	136									
NE+3.895 5	B69	181									
NE+3.895 5	B74	24									
NE+3.895 5	B10	46									
NE+3.895 5	B11	4									
NE+3.895 5	B12	5									
NE+3.895 5	B14	77									
NE+3.895 5	B15	79									
NE+3.895 5	B7	288									

3.3 Shell Assignments

Table 3.5 - Shell Assignments - Summary

Story	Label	Unique Name	Section	Diaphragm	Axis Angle deg	Pier
NE+3.8955	W1	1	M032			P1
NE+3.8955	W2	2	M032			P2

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Story	Label	Unique Name	Section	Diaphragm	Axis Angle deg	Pier
NE+3.8955	W6	7	M030			P67
NE+3.8955	W8	9	M030			P4
NE+3.8955	W12	14	M032			P58
NE+3.8955	W15	18	M038			P65
NE+3.8955	W16	19	M030			P7
NE+3.8955	W17	20	M030			P8
NE+3.8955	W18	21	M028			P9
NE+3.8955	W19	22	M028			P10
NE+3.8955	W5	4	M021			P11
NE+3.8955	W20	5	M021			P12
NE+3.8955	W23	24	M030			P60
NE+3.8955	W24	25	M030			P59
NE+3.8955	W26	27	M030			P51
NE+3.8955	W27	29	M030			P49
NE+3.8955	W29	30	M030			P48
NE+3.8955	W30	31	M030			P47
NE+3.8955	W31	32	M030			P46
NE+3.8955	W41	42	M012			P15
NE+3.8955	W46	23	M012			P3
NE+3.8955	W22	16	M030			P20
NE+3.8955	W33	35	M030			P28
NE+3.8955	W52	53	M016			P38
NE+3.8955	W69	72	M030			P62
NE+3.8955	W72	74	M014			P63
NE+3.8955	W73	75	M014			P63
NE+3.8955	W74	76	M030			P55
NE+3.8955	W76	38	M030			P54
NE+3.8955	W77	37	M012			P30
NE+3.8955	W82	78	M012			P5
NE+3.8955	W84	80	M012			P53
NE+3.8955	W85	81	M012			P13
NE+3.8955	W86	82	M018			P43
NE+3.8955	W87	83	M033			P41
NE+3.8955	W88	52	M016			P40
NE+3.8955	W89	46	M016			P50
NE+3.8955	W93	50	M016			P44
NE+3.8955	W94	43	M030			P16
NE+3.8955	W42	63	M015			P31
NE+3.8955	W49	69	M018			P35
NE+3.8955	W63	71	M018			P36
NE+3.8955	W75	88	M070			P34
NE+3.8955	W61	62	M030			P22
NE+3.8955	W62	65	M030			P22
NE+3.8955	W64	66	M014			P21
NE+3.8955	W99	87	M046			P33
NE+3.8955	W111	11	M032			P2
NE+3.8955	W113	34	M030			P4
NE+3.8955	W114	55	M032			P1
NE+3.8955	W116	67	M030			P67
NE+3.8955	W119	94	M016			P38
NE+3.8955	W121	96	M018			P36
NE+3.8955	W122	100	M015			P31

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Story	Label	Unique Name	Section	Diaphragm	Axis Angle deg	Pier
NE+3.8955	W3	45	M030			P19
NE+3.8955	W4	47	M026			P18
NE+3.8955	W21	60	M015			P29
NE+3.8955	W34	51	M030			P25
NE+3.8955	W35	56	M017			P26
NE+3.8955	W37	102	M015			P29
NE+3.8955	W38	13	M032			P6
NE+3.8955	W43	41	M030			P14
NE+3.8955	W44	48	M030			P14
NE+3.8955	W47	36	M032			P6
NE+3.8955	W48	54	M030			P17
NE+3.8955	W50	57	M030			P17
NE+3.8955	W51	61	M014			P23
NE+3.8955	W53	64	M014			P23
NE+3.8955	W54	68	M015			P24
NE+3.8955	W55	70	M015			P24
NE+3.8955	W56	73	M015			P27
NE+3.8955	W57	77	M015			P27
NE+3.8955	W58	79	M030			P42
NE+3.8955	W60	85	M016			P45
NE+3.8955	W65	86	M016			P45
NE+3.8955	W66	89	M030			P52
NE+3.8955	W67	90	M030			P52
NE+3.8955	W68	93	M030			P56
NE+3.8955	W70	95	M030			P56
NE+3.8955	W71	97	M038			P61
NE+3.8955	W79	98	M038			P61
NE+3.8955	W80	99	M032			P66
NE+3.8955	W81	101	M032			P66
NE+3.8955	W83	15	M032			P57
NE+3.8955	W7	84	M030			P42
NE+3.8955	F3	6	CUB	D1		
NE+3.8955	F7	3	CUB	D1		
NE+3.8955	F8	8	CUB	D1		
NE+3.8955	F4	10	CUB	D1	90	
NE+3.8955	F5	28	CUB	D1		

Table 3.6 - Shell Assignments - Pier/Spandrel

Story	Label	Unique Name	Pier
NE+3.8955	W1	1	P1
NE+3.8955	W2	2	P2
NE+3.8955	W6	7	P67
NE+3.8955	W8	9	P4
NE+3.8955	W12	14	P58
NE+3.8955	W15	18	P65
NE+3.8955	W16	19	P7
NE+3.8955	W17	20	P8
NE+3.8955	W18	21	P9
NE+3.8955	W19	22	P10
NE+3.8955	W5	4	P11
NE+3.8955	W20	5	P12

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Story	Label	Unique Name	Pier
NE+3.8955	W23	24	P60
NE+3.8955	W24	25	P59
NE+3.8955	W26	27	P51
NE+3.8955	W27	29	P49
NE+3.8955	W29	30	P48
NE+3.8955	W30	31	P47
NE+3.8955	W31	32	P46
NE+3.8955	W41	42	P15
NE+3.8955	W46	23	P3
NE+3.8955	W22	16	P20
NE+3.8955	W33	35	P28
NE+3.8955	W52	53	P38
NE+3.8955	W69	72	P62
NE+3.8955	W72	74	P63
NE+3.8955	W73	75	P63
NE+3.8955	W74	76	P55
NE+3.8955	W76	38	P54
NE+3.8955	W77	37	P30
NE+3.8955	W82	78	P5
NE+3.8955	W84	80	P53
NE+3.8955	W85	81	P13
NE+3.8955	W86	82	P43
NE+3.8955	W87	83	P41
NE+3.8955	W88	52	P40
NE+3.8955	W89	46	P50
NE+3.8955	W93	50	P44
NE+3.8955	W94	43	P16
NE+3.8955	W42	63	P31
NE+3.8955	W49	69	P35
NE+3.8955	W63	71	P36
NE+3.8955	W75	88	P34
NE+3.8955	W61	62	P22
NE+3.8955	W62	65	P22
NE+3.8955	W64	66	P21
NE+3.8955	W99	87	P33
NE+3.8955	W111	11	P2
NE+3.8955	W113	34	P4
NE+3.8955	W114	55	P1
NE+3.8955	W116	67	P67
NE+3.8955	W119	94	P38
NE+3.8955	W121	96	P36
NE+3.8955	W122	100	P31
NE+3.8955	W3	45	P19
NE+3.8955	W4	47	P18
NE+3.8955	W21	60	P29
NE+3.8955	W34	51	P25
NE+3.8955	W35	56	P26
NE+3.8955	W37	102	P29
NE+3.8955	W38	13	P6
NE+3.8955	W43	41	P14
NE+3.8955	W44	48	P14
NE+3.8955	W47	36	P6
NE+3.8955	W48	54	P17

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Story	Label	Unique Name	Pier
NE+3.8955	W50	57	P17
NE+3.8955	W51	61	P23
NE+3.8955	W53	64	P23
NE+3.8955	W54	68	P24
NE+3.8955	W55	70	P24
NE+3.8955	W56	73	P27
NE+3.8955	W57	77	P27
NE+3.8955	W58	79	P42
NE+3.8955	W60	85	P45
NE+3.8955	W65	86	P45
NE+3.8955	W66	89	P52
NE+3.8955	W67	90	P52
NE+3.8955	W68	93	P56
NE+3.8955	W70	95	P56
NE+3.8955	W71	97	P61
NE+3.8955	W79	98	P61
NE+3.8955	W80	99	P66
NE+3.8955	W81	101	P66
NE+3.8955	W83	15	P57
NE+3.8955	W7	84	P42

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	Auto Load
PP	Dead	1	
CA	Dead	0	
CV	Live	0	
W	Wind	0	None

4.2 Applied Loads

4.2.1 Line Loads

Table 4.2 - Frame Loads - Distributed

Story	Label	Unique Name	Design Type	Load Pattern	Load Type	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start m	Absolute Distance End m	Force at Start tonf/m	Force at End tonf/m
NE+3.895 5	B23	38	Beam	PP	Force	Gravity	0	1	0	1.824	0.016	0.016
NE+3.895 5	B24	39	Beam	PP	Force	Gravity	0	1	0	2.0406	0.016	0.016
NE+3.895 5	B25	40	Beam	PP	Force	Gravity	0	1	0	1.8695	0.016	0.016
NE+3.895 5	B29	91	Beam	PP	Force	Gravity	0	1	0	1.3908	0.016	0.016
NE+3.895 5	B30	44	Beam	PP	Force	Gravity	0	1	0	0.774	0.016	0.016
NE+3.895 5	B31	45	Beam	PP	Force	Gravity	0	1	0	1.97359	0.016	0.016
NE+3.895 5	B33	116	Beam	PP	Force	Gravity	0	1	0	2.3598	0.016	0.016
NE+3.895 5	B34	117	Beam	PP	Force	Gravity	0	1	0	1.1252	0.016	0.016
NE+3.895 5	B36	121	Beam	PP	Force	Gravity	0	1	0	0.9918	0.016	0.016
NE+3.895 5	B41	129	Beam	PP	Force	Gravity	0	1	0	1.1856	0.016	0.016
NE+3.895 5	B42	130	Beam	PP	Force	Gravity	0	1	0	0.8162	0.016	0.016
NE+3.895 5	B43	131	Beam	PP	Force	Gravity	0	1	0	1.8115	0.016	0.016
NE+3.895 5	B55	109	Beam	PP	Force	Gravity	0	1	0	2.4852	0.016	0.016
NE+3.895 5	B56	110	Beam	PP	Force	Gravity	0	1	0	0.57	0.016	0.016
NE+3.895 5	B58	113	Beam	PP	Force	Gravity	0	1	0	0.8892	0.016	0.016
NE+3.895 5	B59	114	Beam	PP	Force	Gravity	0	1	0	1.0146	0.016	0.016
NE+3.895 5	B60	115	Beam	PP	Force	Gravity	0	1	0	0.9769	0.016	0.016
NE+3.895 5	B61	156	Beam	PP	Force	Gravity	0	1	0	0.4884	0.016	0.016
NE+3.895 5	B62	157	Beam	PP	Force	Gravity	0	1	0	0.7349	0.016	0.016
NE+3.895 5	B72	50	Beam	PP	Force	Gravity	0	1	0	2.508	0.016	0.016

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Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start m	Absolute Distance End m	Force at Start tonf/m	Force at End tonf/m
NE+3.895 5	B79	151	Beam	PP	Force	Gravity	0	1	0	0.8209	0.016	0.016
NE+3.895 5	B80	10	Beam	PP	Force	Gravity	0	1	0	1.0146	0.016	0.016
NE+3.895 5	B81	6	Beam	PP	Force	Gravity	0	1	0	0.9348	0.016	0.016
NE+3.895 5	B82	9	Beam	PP	Force	Gravity	0	1	0	1.0146	0.016	0.016
NE+3.895 5	B83	7	Beam	PP	Force	Gravity	0	1	0	0.9119	0.016	0.016
NE+3.895 5	B91	52	Beam	PP	Force	Gravity	0	1	0	2.508	0.016	0.016
NE+3.895 5	B5	162	Beam	PP	Force	Gravity	0	1	0	0.5244	0.016	0.016
NE+3.895 5	B235	34	Beam	PP	Force	Gravity	0	1	0	0.7524	0.016	0.016
NE+3.895 5	B236	35	Beam	PP	Force	Gravity	0	1	0	0.61978	0.016	0.016
NE+3.895 5	B237	36	Beam	PP	Force	Gravity	0	1	0	1.13374	0.016	0.016
NE+3.895 5	B238	37	Beam	PP	Force	Gravity	0	1	0	0.40815	0.016	0.016
NE+3.895 5	B248	59	Beam	PP	Force	Gravity	0	1	0	0.6514	0.016	0.016
NE+3.895 5	B255	69	Beam	PP	Force	Gravity	0	1	0	2.1318	0.016	0.016
NE+3.895 5	B263	80	Beam	PP	Force	Gravity	0	1	0	3.5068	0.016	0.016
NE+3.895 5	B273	90	Beam	PP	Force	Gravity	0	1	0	0.75	0.016	0.016
NE+3.895 5	B274	92	Beam	PP	Force	Gravity	0	1	0	1.14	0.016	0.016
NE+3.895 5	B275	93	Beam	PP	Force	Gravity	0	1	0	0.7182	0.016	0.016
NE+3.895 5	B276	94	Beam	PP	Force	Gravity	0	1	0	1.0488	0.016	0.016
NE+3.895 5	B277	95	Beam	PP	Force	Gravity	0	1	0	0.3991	0.016	0.016
NE+3.895 5	B278	96	Beam	PP	Force	Gravity	0	1	0	0.4445	0.016	0.016
NE+3.895 5	B279	97	Beam	PP	Force	Gravity	0	1	0	0.808	0.016	0.016
NE+3.895 5	B280	98	Beam	PP	Force	Gravity	0	1	0	0.6744	0.016	0.016
NE+3.895 5	B281	99	Beam	PP	Force	Gravity	0	1	0	0.5814	0.016	0.016
NE+3.895 5	B282	100	Beam	PP	Force	Gravity	0	1	0	1.2522	0.016	0.016
NE+3.895 5	B291	111	Beam	PP	Force	Gravity	0	1	0	1.0362	0.016	0.016
NE+3.895 5	B292	112	Beam	PP	Force	Gravity	0	1	0	0.252	0.016	0.016
NE+3.895 5	B293	118	Beam	PP	Force	Gravity	0	1	0	0.3077	0.016	0.016
NE+3.895 5	B294	119	Beam	PP	Force	Gravity	0	1	0	0.15	0.016	0.016
NE+3.895 5	B295	120	Beam	PP	Force	Gravity	0	1	0	1.1987	0.016	0.016
NE+3.895 5	B296	122	Beam	PP	Force	Gravity	0	1	0	1.8715	0.016	0.016
NE+3.895 5	B297	123	Beam	PP	Force	Gravity	0	1	0	2.5745	0.016	0.016

Story	Label	Unique Name	Design Type	Load Pattern	Load Type	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start m	Absolute Distance End m	Force at Start tonf/m	Force at End tonf/m
NE+3.895 5	B298	124	Beam	PP	Force	Gravity	0	1	0	0.9918	0.016	0.016
NE+3.895 5	B299	125	Beam	PP	Force	Gravity	0	1	0	3.3283	0.016	0.016
NE+3.895 5	B300	126	Beam	PP	Force	Gravity	0	1	0	1.2237	0.016	0.016
NE+3.895 5	B301	127	Beam	PP	Force	Gravity	0	1	0	0.969	0.016	0.016
NE+3.895 5	B302	128	Beam	PP	Force	Gravity	0	1	0	1.9654	0.016	0.016
NE+3.895 5	B303	132	Beam	PP	Force	Gravity	0	1	0	1.2906	0.016	0.016
NE+3.895 5	B304	133	Beam	PP	Force	Gravity	0	1	0	0.5073	0.016	0.016
NE+3.895 5	B306	135	Beam	PP	Force	Gravity	0	1	0	1.3599	0.016	0.016
NE+3.895 5	B314	143	Beam	PP	Force	Gravity	0	1	0	1.8923	0.016	0.016
NE+3.895 5	B316	145	Beam	PP	Force	Gravity	0	1	0	1.9266	0.016	0.016
NE+3.895 5	B317	146	Beam	PP	Force	Gravity	0	1	0	2.0178	0.016	0.016
NE+3.895 5	B318	147	Beam	PP	Force	Gravity	0	1	0	1.19159	0.016	0.016
NE+3.895 5	B319	148	Beam	PP	Force	Gravity	0	1	0	0.28598	0.016	0.016
NE+3.895 5	B320	149	Beam	PP	Force	Gravity	0	1	0	2.5671	0.016	0.016
NE+3.895 5	B321	150	Beam	PP	Force	Gravity	0	1	0	0.6726	0.016	0.016
NE+3.895 5	B322	158	Beam	PP	Force	Gravity	0	1	0	0.7296	0.016	0.016
NE+3.895 5	B323	159	Beam	PP	Force	Gravity	0	1	0	0.72879	0.016	0.016
NE+3.895 5	B324	160	Beam	PP	Force	Gravity	0	1	0	0.57765	0.016	0.016
NE+3.895 5	B325	161	Beam	PP	Force	Gravity	0	1	0	1.09319	0.016	0.016
NE+3.895 5	B326	163	Beam	PP	Force	Gravity	0	1	0	1.2654	0.016	0.016
NE+3.895 5	B327	164	Beam	PP	Force	Gravity	0	1	0	0.171	0.016	0.016
NE+3.895 5	B330	170	Beam	PP	Force	Gravity	0	1	0	1.12485	0.016	0.016
NE+3.895 5	B331	171	Beam	PP	Force	Gravity	0	1	0	0.58055	0.016	0.016
NE+3.895 5	B334	174	Beam	PP	Force	Gravity	0	1	0	1.0739	0.016	0.016
NE+3.895 5	B343	183	Beam	PP	Force	Gravity	0	1	0	1.4015	0.016	0.016
NE+3.895 5	B4	8	Beam	PP	Force	Gravity	0	1	0	3.7006	0.016	0.016
NE+3.895 5	B1	1	Beam	PP	Force	Gravity	0	1	0	6.8946	0.016	0.016
NE+3.895 5	B2	3	Beam	PP	Force	Gravity	0	1	0	6.8946	0.016	0.016
NE+3.895 5	B13	207	Beam	PP	Force	Gravity	0	1	0	1.8426	0.016	0.016
NE+3.895 5	B16	355	Beam	PP	Force	Gravity	0	1	0	5.9129	0.016	0.016
NE+3.895 5	B18	15	Beam	PP	Force	Gravity	0	1	0	0.7664	0.016	0.016

Story	Label	Unique Name	Design Type	Load Pattern	Load Type	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start m	Absolute Distance End m	Force at Start tonf/m	Force at End tonf/m
NE+3.895 5	B35	41	Beam	PP	Force	Gravity	0	1	0	8.0047	0.016	0.016
NE+3.895 5	B47	21	Beam	PP	Force	Gravity	0	1	0	2.8191	0.016	0.016
NE+3.895 5	B54	309	Beam	PP	Force	Gravity	0	1	0	7.2241	0.016	0.016
NE+3.895 5	B63	317	Beam	PP	Force	Gravity	0	1	0	7.2241	0.016	0.016
NE+3.895 5	B70	251	Beam	PP	Force	Gravity	0	1	0	7.9714	0.016	0.016
NE+3.895 5	B73	237	Beam	PP	Force	Gravity	0	1	0	0.9414	0.016	0.016
NE+3.895 5	B75	56	Beam	PP	Force	Gravity	0	1	0	1.0212	0.016	0.016
NE+3.895 5	B76	57	Beam	PP	Force	Gravity	0	1	0	0.5178	0.016	0.016
NE+3.895 5	B77	220	Beam	PP	Force	Gravity	0	1	0	7.9714	0.016	0.016
NE+3.895 5	B84	61	Beam	PP	Force	Gravity	0	1	0	6.8946	0.016	0.016
NE+3.895 5	B95	76	Beam	PP	Force	Gravity	0	1	0	2.508	0.016	0.016
NE+3.895 5	B97	86	Beam	PP	Force	Gravity	0	1	0	2.508	0.016	0.016
NE+3.895 5	B98	172	Beam	PP	Force	Gravity	0	1	0	0.74274	0.016	0.016
NE+3.895 5	B99	173	Beam	PP	Force	Gravity	0	1	0	1.4341	0.016	0.016
NE+3.895 5	B100	182	Beam	PP	Force	Gravity	0	1	0	1.1065	0.016	0.016
NE+3.895 5	B111	22	Beam	PP	Force	Gravity	0	1	0	3.1303	0.016	0.016
NE+3.895 5	B112	51	Beam	PP	Force	Gravity	0	1	0	7.9714	0.016	0.016
NE+3.895 5	B193	238	Beam	PP	Force	Gravity	0	1	0	0.3112	0.016	0.016
NE+3.895 5	B3	63	Beam	PP	Force	Gravity	0	1	0	4.2134	0.016	0.016
NE+3.895 5	B6	2	Beam	PP	Force	Gravity	0	1	0	1.5089	0.016	0.016
NE+3.895 5	B9	88	Beam	PP	Force	Gravity	0	1	0	1.8426	0.016	0.016
NE+3.895 5	B17	101	Beam	PP	Force	Gravity	0	1	0	7.2241	0.016	0.016
NE+3.895 5	B37	136	Beam	PP	Force	Gravity	0	1	0	7.9714	0.016	0.016
NE+3.895 5	B69	181	Beam	PP	Force	Gravity	0	1	0	7.9714	0.016	0.016
NE+3.895 5	B74	24	Beam	PP	Force	Gravity	0	1	0	5.9494	0.016	0.016
NE+3.895 5	B10	46	Beam	PP	Force	Gravity	0	1	0	2.6011	0.016	0.016
NE+3.895 5	B11	4	Beam	PP	Force	Gravity	0	1	0	4.6969	0.016	0.016
NE+3.895 5	B12	5	Beam	PP	Force	Gravity	0	1	0	3.8133	0.016	0.016
NE+3.895 5	B14	77	Beam	PP	Force	Gravity	0	1	0	2.50801	0.016	0.016
NE+3.895 5	B15	79	Beam	PP	Force	Gravity	0	1	0	2.6617	0.016	0.016

4.2.2 Area Loads

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Table 4.3 - Shell Loads - Uniform

Story	Label	Unique Name	Load Pattern	Direction	Load tonf/m ²
NE+3.8955	F3	6	CA	Gravity	0.18
NE+3.8955	F7	3	CA	Gravity	0.18
NE+3.8955	F8	8	CA	Gravity	0.18
NE+3.8955	F4	10	CA	Gravity	0.18
NE+3.8955	F5	28	CA	Gravity	0.18
NE+3.8955	F3	6	CV	Gravity	0.05
NE+3.8955	F7	3	CV	Gravity	0.05
NE+3.8955	F8	8	CV	Gravity	0.05
NE+3.8955	F4	10	CV	Gravity	0.05
NE+3.8955	F5	28	CV	Gravity	0.05

4.3 Functions

4.3.1 Response Spectrum Functions

Table 4.4 - Response Spectrum Function - User

Name	Period sec	Acceleration	Damping %
ESPDIS	0	0.5062	5
ESPDIS	0.047	0.5062	
ESPDIS	0.095	0.5062	
ESPDIS	0.142	0.5062	
ESPDIS	0.19	0.5062	
ESPDIS	0.237	0.5062	
ESPDIS	0.284	0.5062	
ESPDIS	0.332	0.5062	
ESPDIS	0.379	0.5062	
ESPDIS	0.427	0.5062	
ESPDIS	0.474	0.5062	
ESPDIS	0.522	0.5062	
ESPDIS	0.569	0.5062	
ESPDIS	0.616	0.5062	
ESPDIS	0.664	0.5062	
ESPDIS	0.711	0.5062	
ESPDIS	0.759	0.5062	
ESPDIS	0.806	0.5062	
ESPDIS	0.853	0.5062	
ESPDIS	0.939	0.4602	
ESPDIS	1.024	0.4218	
ESPDIS	1.11	0.3894	
ESPDIS	1.195	0.3616	
ESPDIS	1.28	0.3374	
ESPDIS	1.366	0.3163	
ESPDIS	1.451	0.2977	
ESPDIS	1.536	0.2812	
ESPDIS	1.622	0.2664	
ESPDIS	1.707	0.2531	
ESPDIS	1.793	0.241	
ESPDIS	1.878	0.2301	
ESPDIS	1.963	0.22	
ESPDIS	2.049	0.2109	
ESPDIS	2.134	0.2024	

Name	Period sec	Acceleration	Damping %
ESPDIS	2.219	0.1947	
ESPDIS	2.305	0.1874	
ESPDIS	2.39	0.1807	
ESPDIS	2.476	0.1745	
ESPDIS	2.561	0.1687	
ESPDIS	2.646	0.1633	
ESPDIS	2.732	0.1581	
ESPDIS	2.817	0.1534	
ESPDIS	2.902	0.1488	
ESPDIS	2.988	0.1446	
ESPDIS	3.073	0.1406	
ESPDIS	3.159	0.1368	
ESPDIS	3.244	0.1332	
ESPDIS	3.329	0.1298	
ESPDIS	3.415	0.1265	
ESPDIS	3.5	0.1234	
ESPDIS	7.375	0.0278	
ESPDIS	11.25	0.0119	
ESPDIS	15.125	0.006609	
ESPDIS	19	0.004188	
ESPDIS	22.875	0.00289	
ESPDIS	26.75	0.002113	
ESPDIS	30.625	0.001612	
ESPDIS	34.5	0.00127	
ESPDIS	38.375	0.001027	
ESPDIS	42.25	0.000847	
ESPDIS	46.125	0.000711	
ESPDIS	50	0.000605	
ESPDAÑO	0	0.09	2
ESPDAÑO	0.028	0.12	
ESPDAÑO	0.056	0.15	
ESPDAÑO	0.083	0.18	
ESPDAÑO	0.111	0.21	
ESPDAÑO	0.139	0.24	
ESPDAÑO	0.167	0.27	
ESPDAÑO	0.196	0.27	
ESPDAÑO	0.225	0.27	
ESPDAÑO	0.254	0.27	
ESPDAÑO	0.283	0.27	
ESPDAÑO	0.312	0.27	
ESPDAÑO	0.341	0.27	
ESPDAÑO	0.37	0.27	
ESPDAÑO	0.399	0.27	
ESPDAÑO	0.428	0.27	
ESPDAÑO	0.457	0.27	
ESPDAÑO	0.486	0.27	
ESPDAÑO	0.515	0.27	
ESPDAÑO	0.544	0.27	
ESPDAÑO	0.573	0.27	
ESPDAÑO	0.601	0.27	
ESPDAÑO	0.63	0.27	
ESPDAÑO	0.659	0.27	
ESPDAÑO	0.688	0.27	

Name	Period sec	Acceleration	Damping %
ESPDAÑO	0.717	0.27	
ESPDAÑO	0.746	0.27	
ESPDAÑO	0.775	0.27	
ESPDAÑO	0.804	0.27	
ESPDAÑO	0.833	0.27	
ESPDAÑO	0.967	0.2328	
ESPDAÑO	1.1	0.2045	
ESPDAÑO	1.233	0.1824	
ESPDAÑO	1.367	0.1646	
ESPDAÑO	1.5	0.15	
ESPDAÑO	1.633	0.1378	
ESPDAÑO	1.767	0.1274	
ESPDAÑO	1.9	0.1184	
ESPDAÑO	2.033	0.1107	
ESPDAÑO	2.167	0.1038	
ESPDAÑO	2.3	0.0978	
ESPDAÑO	2.433	0.0925	
ESPDAÑO	2.567	0.0877	
ESPDAÑO	2.7	0.0833	
ESPDAÑO	2.833	0.0794	
ESPDAÑO	2.967	0.0758	
ESPDAÑO	3.1	0.0726	
ESPDAÑO	3.233	0.0696	
ESPDAÑO	3.367	0.0668	
ESPDAÑO	3.5	0.0643	
ESPDAÑO	7	0.0161	
ESPDAÑO	8	0.0123	
ESPDAÑO	9	0.009722	
ESPDAÑO	10	0.007875	
ESPDAÑO	12	0.005469	
ESPDAÑO	15	0.0035	
ESPDAÑO	30	0.000875	
ESPDAÑO	35	0.000643	
ESPDAÑO	40	0.000492	
ESPDAÑO	50	0.000315	

4.4 Load Cases

Table 4.5 - Load Cases - Summary

Name	Type
PP	Linear Static
CA	Linear Static
CV	Linear Static
W	Linear Static
SX	Response Spectrum
SY	Response Spectrum
SDX	Response Spectrum
SDY	Response Spectrum

Table 4.6 - Load Cases - Static - Linear

Name	Stiffness From	Mass Source	Load Type	Load Name	Scale Factor	Design Load Type
PP	Preset P-delta	MsSrc1	Load Pattern	PP	1	Program Determined

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Name	Stiffness From	Mass Source	Load Type	Load Name	Scale Factor	Design Load Type
CA	Preset P-delta	MsSrc1	Load Pattern	CA	1	Program Determined
CV	Preset P-delta	MsSrc1	Load Pattern	CV	1	Program Determined
W	Preset P-delta	MsSrc1	Load Pattern	W	1	Program Determined

Table 4.7 - Load Cases - Modal - Ritz

Name	Stiffness From	Mass Source	Load Type	Load Name	Max Cycles	Target Participation %	Max Number Modes	Min Number Modes	Design Load Type
Modal	Preset P-delta	MsSrc1	Acceleration	UX	0	99	24	18	Program Determined
Modal			Acceleration	UY	0	99			

Table 4.8 - Load Cases - Response Spectrum (Part 1 of 2)

Name	Mass Source	Load Type	Load Name	Function	Scale Factor	Coordinate System	Angle deg	Modal Case	Modal Combination Method	Include Rigid Response
SX	Previous (MsSrc1)	Acceleration	U1	ESPDIS	17.56	Global	0	Modal	CQC	No
SY	Previous (MsSrc1)	Acceleration	U2	ESPDIS	21.32	Global	0	Modal	CQC	No
SDX	Previous (MsSrc1)	Acceleration	U1	ESPDANO	22.44	Global	0	Modal	CQC	No
SDY	Previous (MsSrc1)	Acceleration	U2	ESPDANO	26.08	Global	0	Modal	CQC	No

Table 4.8 - Load Cases - Response Spectrum (Part 2 of 2)

Name	Directional Combination Method	Design Load Type	Eccentricity Ratio	Eccentricity Overrides	Constant Damping
SX	SRSS	Program Determined	0	No	0.05
SY	SRSS	Program Determined	0	No	0.05
SDX	SRSS	Program Determined	0	No	0.02
SDY	SRSS	Program Determined	0	No	0.02

Table 4.9 - P-delta Options

Automation Method
None

4.5 Load Combinations

Table 4.10 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
CM	PP	1	Linear Add	No
CM	CA	1		No
DER1	CM	1.2	Linear Add	No
DER1	CV	1.6		No
DER2	CM	1.2	Linear Add	No
DER2	CV	1		No
DER2	SX	1		No
DER3	CM	1.2	Linear Add	No
DER3	CV	1		No
DER3	SX	-1		No
DER4	CM	1.2	Linear Add	No
DER4	CV	1		No

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Name	Load Case/Combo	Scale Factor	Type	Auto
DER4	SY	1		No
DER5	CM	1.2	Linear Add	No
DER5	CV	1		No
DER5	SY	-1		No
DER6	CM	0.9	Linear Add	No
DER6	SX	1		No
DER7	CM	0.9	Linear Add	No
DER7	SX	-1		No
DER8	CM	0.9	Linear Add	No
DER8	SY	1		No
DER9	CM	0.9	Linear Add	No
DER9	SY	-1		No
COMB1	CM	1	Linear Add	No
COMB2	CM	1	Linear Add	No
COMB2	CV	1		No
CIM1	CM	1	Linear Add	No
CIM1	CV	1		No
CIM2	CM	1	Linear Add	No
CIM2	SX	0.88		No
CIM3	CM	1	Linear Add	No
CIM3	SY	0.88		No
CIM4	CM	1	Linear Add	No
CIM4	CV	0.75		No
CIM4	SX	0.66		No
CIM5	CM	1	Linear Add	No
CIM5	CV	0.75		No
CIM5	SY	0.66		No
CIM6	CM	0.6	Linear Add	No
CIM6	SX	0.88		No
CIM7	CM	0.6	Linear Add	No
CIM7	SY	0.88		No
ENVCIM	CIM1	1	Envelope	No
ENVCIM	CIM2	1		No
ENVCIM	CIM3	1		No
ENVCIM	CIM4	1		No
ENVCIM	CIM5	1		No
ENVCIM	CIM6	1		No
ENVCIM	CIM7	1		No
DERUD1	CM	1.2	Linear Add	No
DERUD1	CV	1.6		No
DERUD2	CM	1.2	Linear Add	No
DERUD2	CV	1		No
DERUD2	SDX	1		No
DERUD3	CM	1.2	Linear Add	No
DERUD3	CV	1		No
DERUD3	SDX	-1		No
DERUD4	CM	1.2	Linear Add	No
DERUD4	CV	1		No
DERUD4	SDY	1		No
DERUD5	CM	1.2	Linear Add	No
DERUD5	CV	1		No
DERUD5	SDY	-1		No
DERUD6	CM	0.9	Linear Add	No

Name	Load Case/Combo	Scale Factor	Type	Auto
DERUD6	SDX	1		No
DERUD7	CM	0.9	Linear Add	No
DERUD7	SDX	-1		No
DERUD8	CM	0.9	Linear Add	No
DERUD8	SDY	1		No
DERUD9	CM	0.9	Linear Add	No
DERUD9	SDY	-1		No
COMBC1	CM	1.2	Linear Add	No
COMBC1	CV	1.6		No
COMBC2	CM	1.35	Linear Add	No
COMBC2	CV	1		No
COMBC2	SX	3.13		No
COMBC2	SY	0.94		No
COMBC4	CM	1.35	Linear Add	No
COMBC4	CV	1		No
COMBC4	SX	3.13		No
COMBC4	SY	-0.94		No
COMBC6	CM	1.35	Linear Add	No
COMBC6	CV	1		No
COMBC6	SX	-3.13		No
COMBC6	SY	0.94		No
COMBC8	CM	1.35	Linear Add	No
COMBC8	CV	1		No
COMBC8	SX	-3.13		No
COMBC8	SY	-0.94		No
COMBC10	CM	1.35	Linear Add	No
COMBC10	CV	1		No
COMBC10	SX	0.94		No
COMBC10	SY	3.13		No
COMBC12	CM	1.35	Linear Add	No
COMBC12	CV	1		No
COMBC12	SX	0.94		No
COMBC12	SY	-3.13		No
COMBC14	CM	1.35	Linear Add	No
COMBC14	CV	1		No
COMBC14	SX	-3.13		No
COMBC14	SY	0.94		No
COMBC16	CM	1.35	Linear Add	No
COMBC16	CV	1		No
COMBC16	SX	-0.94		No
COMBC16	SY	-3.13		No
COMBC3	CM	1.05	Linear Add	No
COMBC3	CV	1		No
COMBC3	SX	3.13		No
COMBC3	SY	0.94		No
COMBC5	CM	1.05	Linear Add	No
COMBC5	CV	1		No
COMBC5	SX	3.13		No
COMBC5	SY	-0.94		No
COMBC7	CM	1.05	Linear Add	No
COMBC7	CV	1		No
COMBC7	SX	-3.13		No
COMBC7	SY	0.94		No

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Name	Load Case/Combo	Scale Factor	Type	Auto
COMBC9	CM	1.05	Linear Add	No
COMBC9	CV	1		No
COMBC9	SX	-3.13		No
COMBC9	SY	-0.94		No
COMBC11	CM	1.05	Linear Add	No
COMBC11	CV	1		No
COMBC11	SX	0.94		No
COMBC11	SY	3.13		No
COMBC13	CM	1.05	Linear Add	No
COMBC13	CV	1		No
COMBC13	SX	0.94		No
COMBC13	SY	-3.13		No
COMBC15	CM	1.05	Linear Add	No
COMBC15	CV	1		No
COMBC15	SX	-0.94		No
COMBC15	SY	3.13		No
COMBC17	CM	1.05	Linear Add	No
COMBC17	CV	1		No
COMBC17	SX	-0.94		No
COMBC17	SY	-3.13		No
COMBC18	CM	1.05	Linear Add	No
COMBC18	SX	3.13		No
COMBC18	SY	0.94		No
COMBC20	CM	1.05	Linear Add	No
COMBC20	SX	3.13		No
COMBC20	SY	-0.94		No
COMBC22	CM	1.05	Linear Add	No
COMBC22	SX	-3.13		No
COMBC22	SY	0.94		No
COMBC24	CM	1.05	Linear Add	No
COMBC24	SX	-3.13		No
COMBC24	SY	-0.94		No
COMBC26	CM	1.05	Linear Add	No
COMBC26	SX	0.94		No
COMBC26	SY	3.13		No
COMBC28	CM	1.05	Linear Add	No
COMBC28	SX	0.94		No
COMBC28	SY	-3.13		No
COMBC30	CM	1.05	Linear Add	No
COMBC30	SX	0.94		No
COMBC30	SY	3.13		No
COMBC32	CM	1.05	Linear Add	No
COMBC32	SX	-0.94		No
COMBC32	SY	-3.13		No
COMBC19	CM	0.75	Linear Add	No
COMBC19	SX	3.13		No
COMBC19	SY	0.94		No
COMBC21	CM	0.75	Linear Add	No
COMBC21	SX	3.13		No
COMBC21	SY	-0.94		No
COMBC23	CM	0.75	Linear Add	No
COMBC23	SX	-3.13		No
COMBC23	SY	0.94		No

Name	Load Case/Combo	Scale Factor	Type	Auto
COMBC25	CM	0.75	Linear Add	No
COMBC25	SX	-3.13		No
COMBC25	SY	-0.94		No
COMBC27	CM	0.75	Linear Add	No
COMBC27	SX	0.94		No
COMBC27	SY	3.13		No
COMBC29	CM	0.75	Linear Add	No
COMBC29	SX	0.94		No
COMBC29	SY	-3.13		No
COMBC31	CM	0.75	Linear Add	No
COMBC31	SX	-0.94		No
COMBC31	SY	3.13		No
COMBC33	CM	0.75	Linear Add	No
COMBC33	SX	-0.94		No
COMBC33	SY	-3.13		No
ENVC	COMBC1	1	Envelope	No
ENVC	COMBC2	1		No
ENVC	COMBC3	1		No
ENVC	COMBC4	1		No
ENVC	COMBC5	1		No
ENVC	COMBC6	1		No
ENVC	COMBC7	1		No
ENVC	COMBC8	1		No
ENVC	COMBC9	1		No
ENVC	COMBC10	1		No
ENVC	COMBC11	1		No
ENVC	COMBC12	1		No
ENVC	COMBC13	1		No
ENVC	COMBC14	1		No
ENVC	COMBC15	1		No
ENVC	COMBC16	1		No
ENVC	COMBC17	1		No
ENVC	COMBC18	1		No
ENVC	COMBC19	1		No
ENVC	COMBC20	1		No
ENVC	COMBC21	1		No
ENVC	COMBC22	1		No
ENVC	COMBC23	1		No
ENVC	COMBC24	1		No
ENVC	COMBC25	1		No
ENVC	COMBC26	1		No
ENVC	COMBC27	1		No
ENVC	COMBC28	1		No
ENVC	COMBC29	1		No
ENVC	COMBC30	1		No
ENVC	COMBC31	1		No
ENVC	COMBC32	1		No
ENVC	COMBC33	1		No
COMBV1	CM	1.2	Linear Add	No
COMBV1	CV	1.6		No
COMBV2	CM	1.2	Linear Add	No
COMBV2	CV	1		No
COMBV2	SX	2.5		No

Name	Load Case/Combo	Scale Factor	Type	Auto
COMBV2	SY	0.75		No
COMBV3	CM	1.2	Linear Add	No
COMBV3	CV	1		No
COMBV3	SX	2.5		No
COMBV3	SY	-0.75		No
COMBV4	CM	1.2	Linear Add	No
COMBV4	CV	1		No
COMBV4	SX	-2.5		No
COMBV4	SY	0.75		No
COMBV5	CM	1.2	Linear Add	No
COMBV5	CV	1		No
COMBV5	SX	-2.5		No
COMBV5	SY	-0.75		No
COMBV6	CM	1.2	Linear Add	No
COMBV6	CV	1		No
COMBV6	SX	0.75		No
COMBV6	SY	2.5		No
COMBV7	CM	1.2	Linear Add	No
COMBV7	CV	1		No
COMBV7	SX	0.75		No
COMBV7	SY	-2.5		No
COMBV8	CM	1.2	Linear Add	No
COMBV8	CV	1		No
COMBV8	SX	-0.75		No
COMBV8	SY	2.5		No
COMBV9	CM	1.2	Linear Add	No
COMBV9	CV	1		No
COMBV9	SX	-0.75		No
COMBV9	SY	-2.5		No
COMBV10	CM	0.9	Linear Add	No
COMBV10	SX	2.5		No
COMBV10	SY	0.75		No
COMBV11	CM	0.9	Linear Add	No
COMBV11	SX	2.5		No
COMBV11	SY	-0.75		No
COMBV12	CM	0.9	Linear Add	No
COMBV12	SX	-2.5		No
COMBV12	SY	0.75		No
COMBV13	CM	0.9	Linear Add	No
COMBV13	SX	-2.5		No
COMBV13	SY	-0.75		No
COMBV14	CM	0.9	Linear Add	No
COMBV14	SX	0.75		No
COMBV14	SY	2.5		No
COMBV15	CM	0.9	Linear Add	No
COMBV15	SX	0.75		No
COMBV15	SY	-2.5		No
COMBV16	CM	0.9	Linear Add	No
COMBV16	SX	-0.75		No
COMBV16	SY	2.5		No
COMBV17	CM	0.9	Linear Add	No
COMBV17	SX	-0.75		No
COMBV17	SY	-2.5		No

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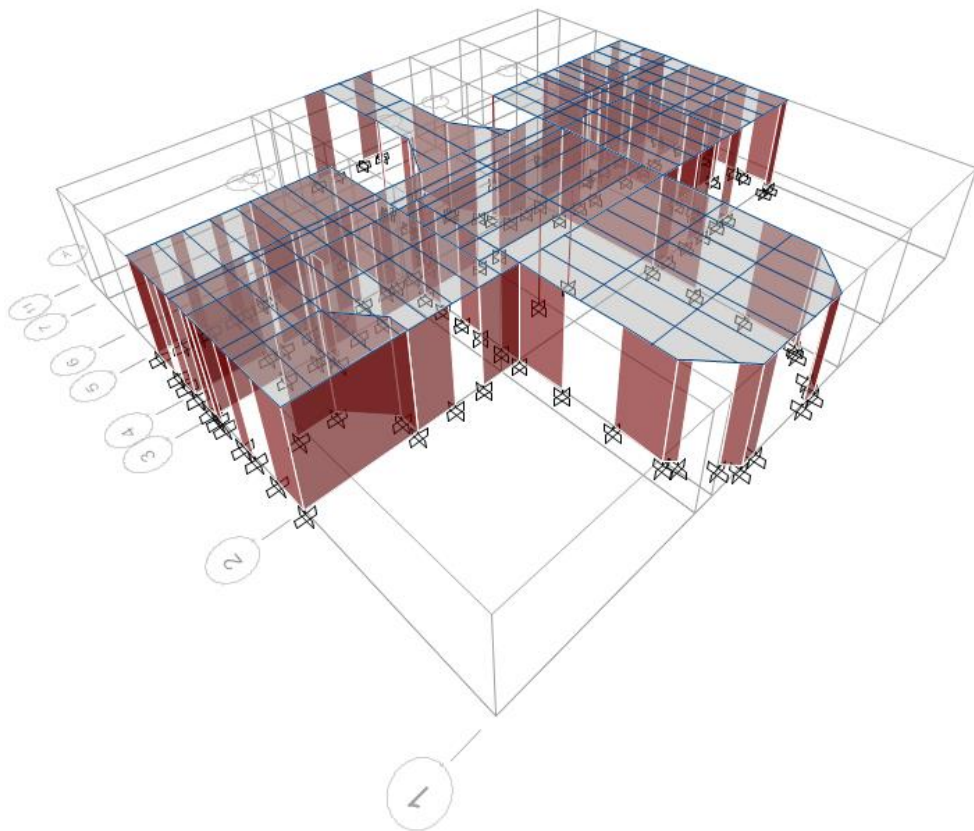
Name	Load Case/Combo	Scale Factor	Type	Auto
ENVV	COMBV1	1	Envelope	No
ENVV	COMBV2	1		No
ENVV	COMBV3	1		No
ENVV	COMBV4	1		No
ENVV	COMBV5	1		No
ENVV	COMBV6	1		No
ENVV	COMBV7	1		No
ENVV	COMBV8	1		No
ENVV	COMBV9	1		No
ENVV	COMBV10	1		No
ENVV	COMBV11	1		No
ENVV	COMBV12	1		No
ENVV	COMBV13	1		No
ENVV	COMBV14	1		No
ENVV	COMBV15	1		No
ENVV	COMBV16	1		No
ENVV	COMBV17	1		No
COMB3	CM	1	Linear Add	No
COMB3	CV	0.75		No
COMB4	CM	1	Linear Add	No
COMB4	SX	0.88		No
COMB4	SY	0.26		No
COMB5	CM	1	Linear Add	No
COMB5	SX	0.88		No
COMB5	SY	-0.26		No
COMB6	CM	1	Linear Add	No
COMB6	SX	-0.88		No
COMB6	SY	0.26		No
COMB7	CM	1	Linear Add	No
COMB7	SX	-0.88		No
COMB7	SY	-0.26		No
COMB8	CM	1	Linear Add	No
COMB8	SX	0.26		No
COMB8	SY	0.88		No
COMB9	CM	1	Linear Add	No
COMB9	SX	0.26		No
COMB9	SY	-0.88		No
COMB10	CM	1	Linear Add	No
COMB10	SX	-0.26		No
COMB10	SY	0.88		No
COMB11	CM	1	Linear Add	No
COMB11	SX	-0.26		No
COMB11	SY	-0.88		No
COMB12	CM	1	Linear Add	No
COMB12	CV	0.75		No
COMB12	SX	0.66		No
COMB12	SY	0.2		No
COMB13	CM	1	Linear Add	No
COMB13	CV	0.75		No
COMB13	SX	0.66		No
COMB13	SY	-0.2		No
COMB14	CM	1	Linear Add	No
COMB14	CV	0.75		No

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Name	Load Case/Combo	Scale Factor	Type	Auto
COMB14	SX	-0.66		No
COMB14	SY	0.2		No
COMB15	CM	1	Linear Add	No
COMB15	CV	0.75		No
COMB15	SX	-0.66		No
COMB15	SY	-0.2		No
COMB16	CM	1	Linear Add	No
COMB16	CV	0.75		No
COMB16	SX	0.2		No
COMB16	SY	0.66		No
COMB17	CM	1	Linear Add	No
COMB17	CV	0.75		No
COMB17	SX	0.2		No
COMB17	SY	-0.66		No
COMB18	CM	1	Linear Add	No
COMB18	CV	0.75		No
COMB18	SX	-0.2		No
COMB18	SY	0.66		No
ENVDIS	COMB1	1	Envelope	No
ENVDIS	COMB2	1		No
ENVDIS	COMB3	1		No
ENVDIS	COMB4	1		No
ENVDIS	COMB5	1		No
ENVDIS	COMB6	1		No
ENVDIS	COMB7	1		No
ENVDIS	COMB8	1		No
ENVDIS	COMB9	1		No
ENVDIS	COMB10	1		No
ENVDIS	COMB11	1		No
ENVDIS	COMB12	1		No
ENVDIS	COMB13	1		No
ENVDIS	COMB14	1		No
ENVDIS	COMB15	1		No
ENVDIS	COMB16	1		No
ENVDIS	COMB17	1		No
ENVDIS	COMB18	1		No
ENVDIS	COMB19	1		No
ENVDIS	COMB20	1		No
ENVDIS	COMB21	1		No
ENVDIS	COMB22	1		No
ENVDIS	COMB23	1		No
ENVDIS	COMB23	1		No
ENVDIS	COMB24	1		No
ENVDIS	COMB25	1		No
ENVDIS	COMB26	1		No
ENVDIS	COMB27	1		No
COMB19	CM	1	Linear Add	No
COMB19	CV	0.75		No
COMB19	SX	-0.2		No
COMB19	SY	-0.66		No
COMB20	CM	0.6	Linear Add	No
COMB20	SX	0.88		No
COMB20	SY	0.26		No

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Name	Load Case/Combo	Scale Factor	Type	Auto
COMB21	CM	0.6	Linear Add	No
COMB21	SX	0.88		No
COMB21	SY	-0.26		No
COMB22	CM	0.6	Linear Add	No
COMB22	SX	-0.88		No
COMB22	SY	0.26		No
COMB23	CM	0.6	Linear Add	No
COMB23	SX	-0.88		No
COMB23	SY	-0.26		No
COMB24	CM	0.6	Linear Add	No
COMB24	SX	0.26		No
COMB24	SY	0.88		No
COMB25	CM	0.6	Linear Add	No
COMB25	SX	0.26		No
COMB25	SY	-0.88		No
COMB26	CM	0.6	Linear Add	No
COMB26	SX	-0.26		No
COMB26	SY	0.88		No
COMB27	CM	0.6	Linear Add	No
COMB27	SX	-0.26		No
COMB27	SY	-0.88		No



DATOS DE ENTRADA 2

716-HSJD

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1. Analysis Results

1.1 Modal Results

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1 Analysis Results

This chapter provides analysis results.

1.1 Modal Results

Table 1.1 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	0.045	22.377	140.5972	19767.5616
Modal	2	0.037	27.292	171.4785	29404.8614
Modal	3	0.033	30.601	192.2745	36969.4858
Modal	4	0.006	163.291	1025.9903	1052656
Modal	5	0.004	240.512	1511.1807	2283667
Modal	6	0.002	507.378	3187.9487	10163017
Modal	7	0.002	523.095	3286.7004	10802399
Modal	8	0.0001088	9191.714	57753.2455	3335437363
Modal	9	6.158E-05	16238.436	102029.104	10410000000

Table 1.2 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	0.045	0.0005	0.3966	0	0.0005	0.3966	0
Modal	2	0.037	0.543	0.2863	0	0.5435	0.6829	0
Modal	3	0.033	0.4565	0.3171	0	1	1	0
Modal	4	0.006	0	2.607E-06	0	1	1	0
Modal	5	0.004	0	0	0	1	1	0
Modal	6	0.002	0	0	0	1	1	0
Modal	7	0.002	0	0	0	1	1	0
Modal	8	0.0001088	0	0	0	1	1	0
Modal	9	6.158E-05	0	0	0	1	1	0

Table 1.2 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0.3966	0.0005	0.6	0.3966	0.0005	0.6
Modal	2	0.2863	0.543	0.1815	0.6829	0.5435	0.7816
Modal	3	0.3171	0.4565	0.2184	1	1	1
Modal	4	2.607E-06	0	0	1	1	1
Modal	5	0	0	0	1	1	1
Modal	6	0	0	0	1	1	1
Modal	7	0	0	0	1	1	1
Modal	8	0	0	0	1	1	1
Modal	9	0	0	0	1	1	1

Table 1.3 - Modal Participation Factors

Case	Mode	Period sec	UX tonf-m	UY tonf-m	UZ tonf-m	RX tonf-m	RY tonf-m	RZ tonf-m	Modal Mass tonf-m-s ²	Modal Stiffness tonf-m
Modal	1	0.045	-0.086135	2.463799	0	-3.909254	-0.136668	-24.268532	1	19767.56163
Modal	2	0.037	-2.882836	-2.093318	0	3.32142	-4.57413	-13.348151	1	29404.8614
Modal	3	0.033	-2.643204	2.202807	0	-3.495144	-4.19391	14.642301	1	36969.48579
Modal	4	0.006	0.000952	-0.006317	0	0.010023	0.001511	-0.01687	1	1052656

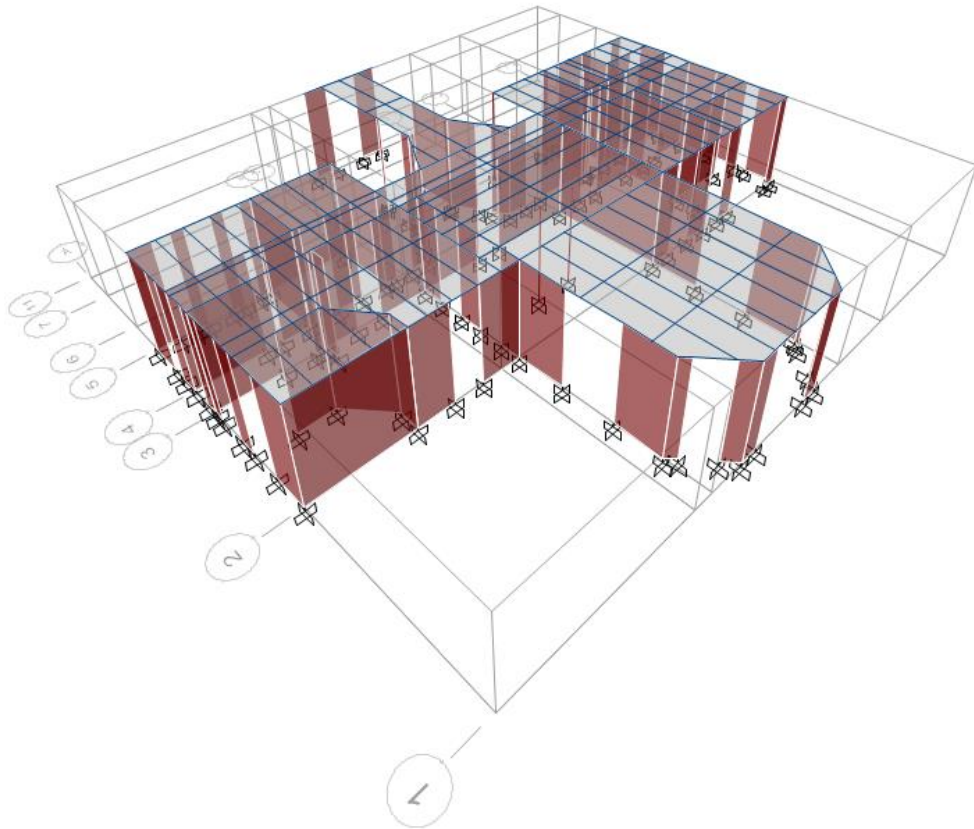
Case	Mode	Period sec	UX tonf-m	UY tonf-m	UZ tonf-m	RX tonf-m	RY tonf-m	RZ tonf-m	Modal Mass tonf-m-s ²	Modal Stiffness tonf-m
Modal	5	0.004	0.000367	-0.001557	0	0.002471	0.000582	-0.015621	1	2283667
Modal	6	0.002	0.000645	-0.000287	0	0.000456	0.001023	-0.004256	1	10163017
Modal	7	0.002	-0.000977	0.000422	0	-0.000669	-0.001551	0.006487	1	10802399
Modal	8	0.0001088	3.611E-08	-3.362E-07	0	1E-06	5.729E-08	-1E-06	1	3335437363
Modal	9	6.158E-05	1.342E-07	-3.419E-08	0	5.425E-08	2.129E-07	-1E-06	1	10410000000

Table 1.4 - Modal Load Participation Ratios

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

Table 1.5 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0.045	0	0.398	0	0.602
Modal	2	0.037	0.542	0.286	0	0.172
Modal	3	0.033	0.456	0.317	0	0.228
Modal	4	0.006	0	0	0	1
Modal	5	0.004	0	0	0	1
Modal	6	0.002	0	0	0	1
Modal	7	0.002	0	0	0	1
Modal	8	0.0001088	0	0	0	1
Modal	9	6.158E-05	0	0	0	1



DATOS DE ENTRADA 3

716-HSJD

Model File: GRUPO 2- JARDIN INFANTIL MAMPOSTERIA, Revision 0

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1. Analysis Results

1.1 Structure Results

1.2 Point Results

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1 Analysis Results

This chapter provides analysis results.

1.1 Structure Results

Table 1.1 - Base Reactions

Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m	X m	Y m	Z m
CV	0	0	11.9725	121.3951	-137.168	0	0	0	0
CM	0	0	253.2315	2783.5037	-2864.1835	0	0	0	0
CIM1	0	0	265.2041	2904.8988	-3001.3515	0	0	0	0
CIM2 Max	146.4819	71.2149	253.2315	3060.9215	-2293.5632	1980.6562	0	0	0
CIM2 Min	-146.4819	-71.2149	253.2315	2506.0859	-3434.8039	-1980.6562	0	0	0
CIM3 Max	86.4637	146.4695	253.2315	3354.0757	-2527.3642	2165.1326	0	0	0
CIM3 Min	-86.4637	-146.4695	253.2315	2212.9318	-3201.0029	-2165.1326	0	0	0
CIM4 Max	109.8614	53.4112	262.2109	3082.6134	-2539.0943	1485.4921	0	0	0
CIM4 Min	-109.8614	-53.4112	262.2109	2666.4867	-3395.0248	-1485.4921	0	0	0
CIM5 Max	64.8478	109.8521	262.2109	3302.479	-2714.445	1623.8495	0	0	0
CIM5 Min	-64.8478	-109.8521	262.2109	2446.6211	-3219.674	-1623.8495	0	0	0
CIM6 Max	146.4819	71.2149	151.9389	1947.52	-1147.8898	1980.6562	0	0	0
CIM6 Min	-146.4819	-71.2149	151.9389	1392.6844	-2289.1305	-1980.6562	0	0	0
CIM7 Max	86.4637	146.4695	151.9389	2240.6742	-1381.6908	2165.1326	0	0	0
CIM7 Min	-86.4637	-146.4695	151.9389	1099.5303	-2055.3294	-2165.1326	0	0	0

Table 1.2 - Centers of Mass and Rigidity

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulative X tonf-s ² /m	Cumulative Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
NE+3.8955	D1	15.08573	15.08573	11.3431	10.7224	15.08573	15.08573	11.3431	10.7224		

1.2 Point Results

Table 1.3 - Joint Reactions

Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	2	101	CV	0.0756	0.05	0.5313	0.0044	0.3493	-0.0002
Base	2	101	CM	-0.3935	0.1863	7.2607	0.0162	1.3112	-0.0006
Base	2	101	CIM1	-0.3179	0.2363	7.792	0.0206	1.6605	-0.0007
Base	2	101	CIM2 Max	-0.1553	1.2901	12.5507	0.4257	2.2593	0.0211
Base	2	101	CIM2 Min	-0.6317	-0.9175	1.9708	-0.3933	0.3631	-0.0222
Base	2	101	CIM3 Max	0.1908	1.7855	10.8997	2.2647	2.1852	0.1031
Base	2	101	CIM3 Min	-0.9778	-1.4129	3.6218	-2.2324	0.4372	-0.1042
Base	2	101	CIM4 Max	-0.1582	1.0516	11.6266	0.3267	2.2843	0.0156
Base	2	101	CIM4 Min	-0.5154	-0.6041	3.6917	-0.2876	0.8621	-0.0169
Base	2	101	CIM5 Max	0.1014	1.4232	10.3884	1.7059	2.2287	0.077
Base	2	101	CIM5 Min	-0.775	-0.9756	4.93	-1.6669	0.9177	-0.0784
Base	2	101	CIM6 Max	0.0021	1.2156	9.6464	0.4192	1.7348	0.0213
Base	2	101	CIM6 Min	-0.4743	-0.992	-0.9335	-0.3998	-0.1614	-0.022
Base	2	101	CIM7 Max	0.3482	1.711	7.9954	2.2583	1.6607	0.1033
Base	2	101	CIM7 Min	-0.8204	-1.4874	0.7175	-2.2388	-0.0873	-0.104
Base	3	11	CV	0.0617	0.0339	0.164	-0.0009	0.004	0.0003
Base	3	11	CM	0.4287	0.558	2.2197	-0.0036	0.0156	0.0012

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	3	11	CIM1	0.4904	0.5918	2.3837	-0.0046	0.0196	0.0015
Base	3	11	CIM2 Max	2.2619	1.553	2.8423	0.0295	0.2255	0.0353
Base	3	11	CIM2 Min	-1.4045	-0.4371	1.5972	-0.0367	-0.1943	-0.033
Base	3	11	CIM3 Max	3.7364	2.2221	3.0781	0.181	0.348	0.0651
Base	3	11	CIM3 Min	-2.879	-1.1062	1.3614	-0.1883	-0.3168	-0.0628
Base	3	11	CIM4 Max	1.8499	1.3296	2.8097	0.0205	0.1761	0.027
Base	3	11	CIM4 Min	-0.8999	-0.1629	1.8758	-0.0291	-0.1388	-0.0242
Base	3	11	CIM5 Max	2.9557	1.8315	2.9865	0.1342	0.2679	0.0493
Base	3	11	CIM5 Min	-2.0058	-0.6647	1.699	-0.1428	-0.2307	-0.0465
Base	3	11	CIM6 Max	2.0904	1.3298	1.9544	0.0309	0.2193	0.0349
Base	3	11	CIM6 Min	-1.576	-0.6603	0.7093	-0.0353	-0.2006	-0.0335
Base	3	11	CIM7 Max	3.5649	1.9989	2.1902	0.1825	0.3418	0.0646
Base	3	11	CIM7 Min	-3.0505	-1.3294	0.4735	-0.1868	-0.323	-0.0632
Base	5	12	CV	-0.0602	4.184E-05	-0.0007	-0.0005	0.0052	-0.0001
Base	5	12	CM	-0.795	0.0002	0.8654	-0.0019	0.0201	-0.0002
Base	5	12	CIM1	-0.8552	0.0002	0.8646	-0.0024	0.0253	-0.0003
Base	5	12	CIM2 Max	0.805	0.0172	3.6181	0.012	0.1485	0.0169
Base	5	12	CIM2 Min	-2.395	-0.0169	-1.8874	-0.0159	-0.1082	-0.0174
Base	5	12	CIM3 Max	2.0751	0.0366	5.3905	0.0414	0.2208	0.0536
Base	5	12	CIM3 Min	-3.6651	-0.0362	-3.6598	-0.0452	-0.1805	-0.054
Base	5	12	CIM4 Max	0.3598	0.013	2.9294	0.0082	0.1203	0.0126
Base	5	12	CIM4 Min	-2.0401	-0.0126	-1.1998	-0.0128	-0.0722	-0.0131
Base	5	12	CIM5 Max	1.3124	0.0275	4.2587	0.0302	0.1745	0.0401
Base	5	12	CIM5 Min	-2.9927	-0.0271	-2.529	-0.0348	-0.1264	-0.0406
Base	5	12	CIM6 Max	1.123	0.0172	3.272	0.0128	0.1404	0.017
Base	5	12	CIM6 Min	-2.077	-0.017	-2.2336	-0.0151	-0.1163	-0.0173
Base	5	12	CIM7 Max	2.3931	0.0365	5.0443	0.0421	0.2127	0.0537
Base	5	12	CIM7 Min	-3.3471	-0.0363	-4.0059	-0.0445	-0.1886	-0.054
Base	7	13	CV	0.0355	0.0002	-0.0535	-0.0005	-0.0068	2.434E-05
Base	7	13	CM	0.7036	0.0009	0.5756	-0.002	-0.0261	0.0001
Base	7	13	CIM1	0.7391	0.0012	0.5221	-0.0025	-0.0329	0.0001
Base	7	13	CIM2 Max	2.7126	0.0109	3.4793	0.0136	0.089	0.0222
Base	7	13	CIM2 Min	-1.3054	-0.009	-2.3281	-0.0176	-0.1411	-0.022
Base	7	13	CIM3 Max	3.1291	0.0454	4.2036	0.0311	0.1214	0.0471
Base	7	13	CIM3 Min	-1.7219	-0.0436	-3.0524	-0.0352	-0.1735	-0.0469
Base	7	13	CIM4 Max	2.237	0.0086	2.7133	0.0093	0.0551	0.0167
Base	7	13	CIM4 Min	-0.7766	-0.0063	-1.6423	-0.0141	-0.1175	-0.0165
Base	7	13	CIM5 Max	2.5493	0.0345	3.2565	0.0224	0.0794	0.0354
Base	7	13	CIM5 Min	-1.0889	-0.0323	-2.1855	-0.0273	-0.1418	-0.0352
Base	7	13	CIM6 Max	2.4312	0.0105	3.249	0.0144	0.0994	0.0222
Base	7	13	CIM6 Min	-1.5869	-0.0094	-2.5583	-0.0168	-0.1307	-0.022
Base	7	13	CIM7 Max	2.8477	0.0451	3.9733	0.0319	0.1318	0.0471
Base	7	13	CIM7 Min	-2.0034	-0.044	-3.2826	-0.0343	-0.1631	-0.047
Base	9	14	CV	-0.027	0.0488	0.1714	-0.0001	-0.0071	0.0003
Base	9	14	CM	-0.2768	0.593	2.1922	-0.0004	-0.0268	0.001
Base	9	14	CIM1	-0.3038	0.6418	2.3636	-0.0005	-0.0339	0.0013
Base	9	14	CIM2 Max	2.1081	1.5806	2.5075	0.0914	0.1857	0.0419
Base	9	14	CIM2 Min	-2.6618	-0.3947	1.877	-0.0922	-0.2393	-0.0399
Base	9	14	CIM3 Max	2.5746	1.8049	3.0841	0.1219	0.2439	0.0501
Base	9	14	CIM3 Min	-3.1283	-0.6189	1.3004	-0.1227	-0.2975	-0.0481

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	9	14	CIM4 Max	1.4916	1.3703	2.5572	0.0684	0.1273	0.0319
Base	9	14	CIM4 Min	-2.0858	-0.1111	2.0843	-0.0693	-0.1915	-0.0295
Base	9	14	CIM5 Max	1.8415	1.5385	2.9897	0.0913	0.171	0.0381
Base	9	14	CIM5 Min	-2.4357	-0.2793	1.6519	-0.0922	-0.2351	-0.0357
Base	9	14	CIM6 Max	2.2188	1.3434	1.6306	0.0915	0.1964	0.0415
Base	9	14	CIM6 Min	-2.551	-0.6318	1.0001	-0.092	-0.2286	-0.0403
Base	9	14	CIM7 Max	2.6853	1.5677	2.2072	0.1221	0.2547	0.0497
Base	9	14	CIM7 Min	-3.0176	-0.8561	0.4235	-0.1226	-0.2868	-0.0485
Base	34	46	CV	0.0638	0.0797	0.2847	-0.0173	-0.0015	0.0001
Base	34	46	CM	0.5927	0.4333	3.5168	-0.0656	-0.0053	0.0005
Base	34	46	CIM1	0.6566	0.513	3.8015	-0.0829	-0.0068	0.0006
Base	34	46	CIM2 Max	1.0732	0.768	4.9037	0.1495	0.1229	0.0079
Base	34	46	CIM2 Min	0.1123	0.0987	2.1299	-0.2806	-0.1336	-0.007
Base	34	46	CIM3 Max	3.6219	2.7157	7.3923	1.09	0.1872	0.0421
Base	34	46	CIM3 Min	-2.4364	-1.8491	-0.3587	-1.2212	-0.1979	-0.0412
Base	34	46	CIM4 Max	1.0009	0.7441	4.7706	0.0827	0.0897	0.0061
Base	34	46	CIM4 Min	0.2803	0.2421	2.6902	-0.2398	-0.1027	-0.005
Base	34	46	CIM5 Max	2.9124	2.2049	6.637	0.7882	0.138	0.0318
Base	34	46	CIM5 Min	-1.6313	-1.2187	0.8237	-0.9453	-0.1509	-0.0307
Base	34	46	CIM6 Max	0.8361	0.5947	3.497	0.1757	0.1251	0.0077
Base	34	46	CIM6 Min	-0.1248	-0.0747	0.7232	-0.2544	-0.1315	-0.0071
Base	34	46	CIM7 Max	3.3848	2.5424	5.9856	1.1163	0.1894	0.0419
Base	34	46	CIM7 Min	-2.6735	-2.0224	-1.7654	-1.195	-0.1958	-0.0413
Base	36	47	CV	-3.8E-05	-0.07	0.1454	-0.0117	-0.0005	-0.0003
Base	36	47	CM	-0.0001	-0.7979	2.5346	-0.0447	-0.0018	-0.001
Base	36	47	CIM1	-0.0002	-0.868	2.68	-0.0564	-0.0022	-0.0013
Base	36	47	CIM2 Max	0.0208	-0.2127	4.1128	0.1565	0.0968	0.0367
Base	36	47	CIM2 Min	-0.021	-1.3832	0.9563	-0.2458	-0.1003	-0.0388
Base	36	47	CIM3 Max	0.0165	2.7402	11.4144	1.0213	0.1044	0.0402
Base	36	47	CIM3 Min	-0.0168	-4.3361	-6.3453	-1.1106	-0.1079	-0.0423
Base	36	47	CIM4 Max	0.0155	-0.4116	3.8273	0.0974	0.0718	0.0271
Base	36	47	CIM4 Min	-0.0158	-1.2894	1.4599	-0.2043	-0.076	-0.0295
Base	36	47	CIM5 Max	0.0123	1.8031	9.3035	0.746	0.0775	0.0297
Base	36	47	CIM5 Min	-0.0126	-3.5041	-4.0163	-0.8529	-0.0818	-0.0322
Base	36	47	CIM6 Max	0.0208	0.1065	3.099	0.1743	0.0975	0.0371
Base	36	47	CIM6 Min	-0.021	-1.064	-0.0575	-0.2279	-0.0996	-0.0384
Base	36	47	CIM7 Max	0.0166	3.0594	10.4006	1.0391	0.1051	0.0406
Base	36	47	CIM7 Min	-0.0167	-4.0169	-7.3591	-1.0927	-0.1072	-0.0418
Base	37	59	CV	-0.0002	-0.0776	0.178	-0.0086	-0.001	-0.0003
Base	37	59	CM	-0.0007	-0.8264	2.7693	-0.0328	-0.0038	-0.001
Base	37	59	CIM1	-0.0009	-0.904	2.9474	-0.0414	-0.0047	-0.0013
Base	37	59	CIM2 Max	0.0215	0.593	6.458	0.4497	0.0998	0.0367
Base	37	59	CIM2 Min	-0.0229	-2.2457	-0.9193	-0.5153	-0.1073	-0.0388
Base	37	59	CIM3 Max	0.0148	1.4424	8.7892	0.7676	0.112	0.0402
Base	37	59	CIM3 Min	-0.0162	-3.0951	-3.2505	-0.8332	-0.1195	-0.0423
Base	37	59	CIM4 Max	0.0159	0.1799	5.6694	0.3226	0.0731	0.0271
Base	37	59	CIM4 Min	-0.0175	-1.9491	0.1364	-0.4011	-0.0821	-0.0295
Base	37	59	CIM5 Max	0.0108	0.817	7.4178	0.5611	0.0823	0.0297
Base	37	59	CIM5 Min	-0.0125	-2.5861	-1.612	-0.6395	-0.0913	-0.0322
Base	37	59	CIM6 Max	0.0218	0.9235	5.3503	0.4628	0.1013	0.0371

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	37	59	CIM6 Min	-0.0227	-1.9152	-2.027	-0.5022	-0.1058	-0.0384
Base	37	59	CIM7 Max	0.0151	1.7729	7.6815	0.7807	0.1135	0.0406
Base	37	59	CIM7 Min	-0.0159	-2.7645	-4.3583	-0.8201	-0.118	-0.0418
Base	44	58	CV	-0.0609	0.0874	0.2915	-0.0151	-0.001	0.0001
Base	44	58	CM	-0.6035	0.4815	3.522	-0.0572	-0.0038	0.0003
Base	44	58	CIM1	-0.6645	0.5689	3.8135	-0.0723	-0.0048	0.0004
Base	44	58	CIM2 Max	0.9535	1.437	5.2853	0.4463	0.1309	0.0241
Base	44	58	CIM2 Min	-2.1606	-0.4739	1.7587	-0.5607	-0.1386	-0.0235
Base	44	58	CIM3 Max	1.8316	1.8509	7.1245	0.7772	0.1544	0.03
Base	44	58	CIM3 Min	-3.0387	-0.8878	-0.0805	-0.8917	-0.162	-0.0294
Base	44	58	CIM4 Max	0.5186	1.2637	5.0631	0.3091	0.0965	0.0182
Base	44	58	CIM4 Min	-1.8171	-0.1695	2.4182	-0.4462	-0.1056	-0.0175
Base	44	58	CIM5 Max	1.1771	1.5741	6.4425	0.5573	0.1141	0.0227
Base	44	58	CIM5 Min	-2.4756	-0.48	1.0388	-0.6944	-0.1232	-0.0219
Base	44	58	CIM6 Max	1.195	1.2444	3.8765	0.4692	0.1325	0.024
Base	44	58	CIM6 Min	-1.9192	-0.6665	0.3499	-0.5378	-0.1371	-0.0236
Base	44	58	CIM7 Max	2.073	1.6583	5.7157	0.8001	0.1559	0.0299
Base	44	58	CIM7 Min	-2.7972	-1.0805	-1.4893	-0.8688	-0.1605	-0.0295
Base	50	248	CV	-0.0001	0.1482	0.2827	0.0034	-0.0003	0.0003
Base	50	248	CM	-0.0005	1.1278	3.2367	0.0131	-0.0009	0.0011
Base	50	248	CIM1	-0.0007	1.2761	3.5194	0.0166	-0.0012	0.0014
Base	50	248	CIM2 Max	0.0398	2.5779	6.0994	0.2943	0.1238	0.0449
Base	50	248	CIM2 Min	-0.0409	-0.3222	0.374	-0.268	-0.1257	-0.0426
Base	50	248	CIM3 Max	0.0665	8.1292	18.3343	1.5881	0.1123	0.041
Base	50	248	CIM3 Min	-0.0676	-5.8735	-11.8609	-1.5618	-0.1142	-0.0387
Base	50	248	CIM4 Max	0.0296	2.3265	5.5958	0.2266	0.0924	0.0342
Base	50	248	CIM4 Min	-0.0309	0.1515	1.3017	-0.1951	-0.0947	-0.0314
Base	50	248	CIM5 Max	0.0496	6.49	14.7719	1.1969	0.0838	0.0312
Base	50	248	CIM5 Min	-0.0509	-4.012	-7.8744	-1.1655	-0.0861	-0.0285
Base	50	248	CIM6 Max	0.04	2.1267	4.8047	0.289	0.1242	0.0444
Base	50	248	CIM6 Min	-0.0407	-0.7733	-0.9207	-0.2732	-0.1253	-0.0431
Base	50	248	CIM7 Max	0.0667	7.678	17.0396	1.5829	0.1127	0.0405
Base	50	248	CIM7 Min	-0.0674	-6.3246	-13.1555	-1.5671	-0.1138	-0.0392
Base	52	253	CV	0.1606	-0.1146	-0.0201	-0.0137	-0.0109	-0.0003
Base	52	253	CM	0.6025	-1.0012	0.8788	-0.0516	-0.041	-0.001
Base	52	253	CIM1	0.7631	-1.1159	0.8587	-0.0653	-0.052	-0.0013
Base	52	253	CIM2 Max	0.6185	1.0013	3.2873	0.0444	0.0104	0.0404
Base	52	253	CIM2 Min	0.5865	-3.0038	-1.5297	-0.1476	-0.0925	-0.0424
Base	52	253	CIM3 Max	0.635	3.8962	9.629	0.4562	-0.0037	0.0276
Base	52	253	CIM3 Min	0.57	-5.8986	-7.8714	-0.5594	-0.0783	-0.0296
Base	52	253	CIM4 Max	0.735	0.4147	2.6701	0.0101	-0.0106	0.0299
Base	52	253	CIM4 Min	0.7109	-2.5891	-0.9427	-0.1339	-0.0878	-0.0323
Base	52	253	CIM5 Max	0.7473	2.5858	7.4264	0.3189	-0.0213	0.0203
Base	52	253	CIM5 Min	0.6985	-4.7603	-5.6989	-0.4427	-0.0772	-0.0227
Base	52	253	CIM6 Max	0.3775	1.4018	2.9358	0.065	0.0268	0.0408
Base	52	253	CIM6 Min	0.3455	-2.6033	-1.8813	-0.1269	-0.0761	-0.042
Base	52	253	CIM7 Max	0.394	4.2967	9.2775	0.4768	0.0127	0.028
Base	52	253	CIM7 Min	0.329	-5.4981	-8.223	-0.5387	-0.0619	-0.0292
Base	54	50	CV	-0.0003	0.066	0.1474	0.0176	-0.0008	0.0003
Base	54	50	CM	-0.0011	0.8149	2.7485	0.0669	-0.0031	0.0011

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	54	50	CIM1	-0.0015	0.8809	2.8959	0.0845	-0.0039	0.0014
Base	54	50	CIM2 Max	0.0381	5.681	12.1741	1.0732	0.1178	0.0449
Base	54	50	CIM2 Min	-0.0404	-4.0511	-6.6772	-0.9395	-0.124	-0.0426
Base	54	50	CIM3 Max	0.0645	8.7262	18.1162	1.7423	0.1055	0.0411
Base	54	50	CIM3 Min	-0.0668	-7.0964	-12.6193	-1.6086	-0.1117	-0.0388
Base	54	50	CIM4 Max	0.0281	4.514	9.9283	0.8349	0.0869	0.0342
Base	54	50	CIM4 Min	-0.0308	-2.7852	-4.2102	-0.6747	-0.0944	-0.0315
Base	54	50	CIM5 Max	0.0478	6.7979	14.3849	1.3367	0.0777	0.0313
Base	54	50	CIM5 Min	-0.0506	-5.0691	-8.6668	-1.1765	-0.0852	-0.0286
Base	54	50	CIM6 Max	0.0386	5.355	11.0747	1.0465	0.119	0.0444
Base	54	50	CIM6 Min	-0.04	-4.3771	-7.7766	-0.9662	-0.1227	-0.0431
Base	54	50	CIM7 Max	0.0649	8.4003	17.0168	1.7156	0.1067	0.0406
Base	54	50	CIM7 Min	-0.0663	-7.4224	-13.7187	-1.6353	-0.1105	-0.0393
Base	58	86	CV	0.1628	0.2658	0.1643	0.014	0.206	0.0003
Base	58	86	CM	0.6043	1.5683	1.7052	0.0521	0.7611	0.0009
Base	58	86	CIM1	0.767	1.8341	1.8696	0.0661	0.967	0.0012
Base	58	86	CIM2 Max	0.6303	1.6463	2.1726	0.0923	0.8225	0.0416
Base	58	86	CIM2 Min	0.5783	1.4904	1.2378	0.0119	0.6996	-0.0398
Base	58	86	CIM3 Max	0.6496	1.9563	3.9057	0.2366	0.8019	0.0266
Base	58	86	CIM3 Min	0.5589	1.1804	-0.4953	-0.1323	0.7202	-0.0247
Base	58	86	CIM4 Max	0.7459	1.8261	2.179	0.0927	0.9616	0.0317
Base	58	86	CIM4 Min	0.7069	1.7092	1.4779	0.0324	0.8695	-0.0294
Base	58	86	CIM5 Max	0.7604	2.0586	3.4789	0.2009	0.9462	0.0204
Base	58	86	CIM5 Min	0.6923	1.4767	0.1781	-0.0757	0.8849	-0.0181
Base	58	86	CIM6 Max	0.3886	1.019	1.4905	0.0715	0.5181	0.0413
Base	58	86	CIM6 Min	0.3366	0.8631	0.5557	-0.0089	0.3952	-0.0401
Base	58	86	CIM7 Max	0.4079	1.3289	3.2237	0.2157	0.4975	0.0263
Base	58	86	CIM7 Min	0.3172	0.5531	-1.1774	-0.1532	0.4157	-0.0251
Base	60	87	CV	0.1605	-0.3462	0.4227	0.0137	0.2133	-0.0002
Base	60	87	CM	0.5941	-1.8689	2.6705	0.0512	0.7932	-0.0009
Base	60	87	CIM1	0.7545	-2.2151	3.0932	0.0649	1.0065	-0.0011
Base	60	87	CIM2 Max	0.6125	-1.7702	3.1572	0.0914	0.8543	0.0392
Base	60	87	CIM2 Min	0.5757	-1.9676	2.1837	0.0111	0.7322	-0.041
Base	60	87	CIM3 Max	0.632	-1.4604	4.8905	0.2356	0.8303	0.0231
Base	60	87	CIM3 Min	0.5561	-2.2774	0.4504	-0.1331	0.7562	-0.0249
Base	60	87	CIM4 Max	0.7282	-2.0545	3.3525	0.0916	0.999	0.029
Base	60	87	CIM4 Min	0.7006	-2.2026	2.6224	0.0314	0.9074	-0.0312
Base	60	87	CIM5 Max	0.7429	-1.8222	4.6525	0.1998	0.981	0.0169
Base	60	87	CIM5 Min	0.686	-2.4349	1.3225	-0.0768	0.9254	-0.0191
Base	60	87	CIM6 Max	0.3749	-1.0226	2.089	0.0709	0.537	0.0396
Base	60	87	CIM6 Min	0.338	-1.22	1.1156	-0.0094	0.4149	-0.0406
Base	60	87	CIM7 Max	0.3944	-0.7128	3.8223	0.2151	0.513	0.0235
Base	60	87	CIM7 Min	0.3185	-1.5298	-0.6178	-0.1536	0.4389	-0.0245
Base	62	88	CV	0.02	0.0557	-0.0165	0.0101	0.0034	0.0002
Base	62	88	CM	0.0726	0.7787	0.9984	0.0376	0.0121	0.0008
Base	62	88	CIM1	0.0926	0.8344	0.9819	0.0476	0.0154	0.0011
Base	62	88	CIM2 Max	0.1011	1.711	2.5418	0.12	0.0838	0.0404
Base	62	88	CIM2 Min	0.044	-0.1537	-0.5451	-0.0449	-0.0596	-0.0387
Base	62	88	CIM3 Max	0.1134	3.8588	6.7336	0.3662	0.0549	0.0244
Base	62	88	CIM3 Min	0.0317	-2.3015	-4.7369	-0.291	-0.0307	-0.0227

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	62	88	CIM4 Max	0.109	1.5197	2.1436	0.107	0.0684	0.0307
Base	62	88	CIM4 Min	0.0661	0.1212	-0.1716	-0.0167	-0.0392	-0.0287
Base	62	88	CIM5 Max	0.1182	3.1305	5.2874	0.2916	0.0467	0.0187
Base	62	88	CIM5 Min	0.0569	-1.4897	-3.3155	-0.2013	-0.0175	-0.0166
Base	62	88	CIM6 Max	0.0721	1.3995	2.1425	0.105	0.079	0.0401
Base	62	88	CIM6 Min	0.015	-0.4651	-0.9444	-0.0599	-0.0644	-0.039
Base	62	88	CIM7 Max	0.0844	3.5473	6.3343	0.3512	0.05	0.024
Base	62	88	CIM7 Min	0.0027	-2.6129	-5.1363	-0.306	-0.0355	-0.023
Base	64	98	CV	-0.0508	0.0104	0.017	-0.0106	-0.0205	0.0006
Base	64	98	CM	0.4868	0.5749	6.9008	-0.0408	-0.0732	0.0021
Base	64	98	CIM1	0.436	0.5853	6.9178	-0.0514	-0.0937	0.0027
Base	64	98	CIM2 Max	14.9028	1.8179	26.503	0.3929	5.1139	0.0381
Base	64	98	CIM2 Min	-13.9292	-0.6681	-12.7014	-0.4745	-5.2603	-0.0339
Base	64	98	CIM3 Max	10.7554	1.696	20.7843	2.3393	3.9029	0.1854
Base	64	98	CIM3 Min	-9.7818	-0.5462	-6.9827	-2.4209	-4.0493	-0.1811
Base	64	98	CIM4 Max	11.2607	1.5149	21.6152	0.2765	3.8017	0.0295
Base	64	98	CIM4 Min	-10.3633	-0.3495	-7.7881	-0.374	-3.9789	-0.0244
Base	64	98	CIM5 Max	8.1501	1.4235	17.3262	1.7363	2.8935	0.14
Base	64	98	CIM5 Min	-7.2527	-0.2581	-3.4991	-1.8338	-3.0707	-0.1349
Base	64	98	CIM6 Max	14.7081	1.5879	23.7427	0.4092	5.1432	0.0373
Base	64	98	CIM6 Min	-14.1239	-0.898	-15.4617	-0.4582	-5.231	-0.0347
Base	64	98	CIM7 Max	10.5606	1.466	18.024	2.3556	3.9322	0.1845
Base	64	98	CIM7 Min	-9.9765	-0.7761	-9.743	-2.4046	-4.02	-0.182
Base	66	246	CV	-0.0857	-0.0003	0.1485	-0.001	-0.0075	-0.0002
Base	66	246	CM	-0.9926	-0.001	2.5535	-0.0036	-0.0282	-0.0008
Base	66	246	CIM1	-1.0783	-0.0013	2.702	-0.0046	-0.0357	-0.001
Base	66	246	CIM2 Max	6.7521	0.0294	17.4831	0.0269	1.2834	0.0124
Base	66	246	CIM2 Min	-8.7373	-0.0314	-12.3761	-0.0341	-1.3398	-0.014
Base	66	246	CIM3 Max	6.0169	0.0468	15.6533	0.3043	1.0622	0.1227
Base	66	246	CIM3 Min	-8.0021	-0.0488	-10.5463	-0.3115	-1.1186	-0.1243
Base	66	246	CIM4 Max	4.7516	0.0216	13.8621	0.0185	0.9499	0.0089
Base	66	246	CIM4 Min	-6.8654	-0.024	-8.5324	-0.0272	-1.0175	-0.0109
Base	66	246	CIM5 Max	4.2002	0.0346	12.4897	0.2266	0.784	0.0917
Base	66	246	CIM5 Min	-6.314	-0.0371	-7.16	-0.2352	-0.8517	-0.0936
Base	66	246	CIM6 Max	7.1491	0.0298	16.4617	0.0283	1.2947	0.0127
Base	66	246	CIM6 Min	-8.3403	-0.031	-13.3975	-0.0326	-1.3285	-0.0137
Base	66	246	CIM7 Max	6.4139	0.0472	14.6319	0.3057	1.0735	0.123
Base	66	246	CIM7 Min	-7.605	-0.0484	-11.5677	-0.3101	-1.1074	-0.124
Base	68	100	CV	0.1577	-0.0303	0.2511	0.027	0.0221	0.0002
Base	68	100	CM	1.2719	-0.1134	3.0841	0.101	0.0835	0.0007
Base	68	100	CIM1	1.4295	-0.1437	3.3352	0.128	0.1056	0.0009
Base	68	100	CIM2 Max	4.8294	-0.1002	11.1446	0.1414	0.8599	0.0174
Base	68	100	CIM2 Min	-2.2857	-0.1266	-4.9764	0.0605	-0.6928	-0.016
Base	68	100	CIM3 Max	5.4306	0.0194	11.4353	0.3792	0.8194	0.1155
Base	68	100	CIM3 Min	-2.8869	-0.2462	-5.267	-0.1772	-0.6524	-0.114
Base	68	100	CIM4 Max	4.0583	-0.1262	9.3178	0.1516	0.6823	0.0134
Base	68	100	CIM4 Min	-1.2781	-0.146	-2.7729	0.0909	-0.4822	-0.0117
Base	68	100	CIM5 Max	4.5092	-0.0365	9.5358	0.3299	0.652	0.0869
Base	68	100	CIM5 Min	-1.729	-0.2357	-2.9909	-0.0874	-0.4519	-0.0852
Base	68	100	CIM6 Max	4.3207	-0.0548	9.9109	0.101	0.8264	0.0172

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	68	100	CIM6 Min	-2.7945	-0.0812	-6.21	0.0201	-0.7262	-0.0163
Base	68	100	CIM7 Max	4.9219	0.0648	10.2016	0.3388	0.786	0.1152
Base	68	100	CIM7 Min	-3.3956	-0.2008	-6.5007	-0.2176	-0.6858	-0.1143
Base	77	118	CV	-0.0888	-0.0001	0.092	-3.473E-05	-0.0011	1.491E-05
Base	77	118	CM	-0.8647	-0.0003	1.3188	-0.0001	-0.0039	0.0001
Base	77	118	CIM1	-0.9535	-0.0003	1.4108	-0.0002	-0.005	0.0001
Base	77	118	CIM2 Max	0.7341	0.0231	4.3736	0.0454	0.1712	0.0232
Base	77	118	CIM2 Min	-2.4635	-0.0236	-1.736	-0.0457	-0.179	-0.0231
Base	77	118	CIM3 Max	0.7849	0.0397	4.1128	0.073	0.1469	0.0369
Base	77	118	CIM3 Min	-2.5142	-0.0402	-1.4751	-0.0733	-0.1546	-0.0368
Base	77	118	CIM4 Max	0.2678	0.0172	3.6789	0.034	0.1266	0.0174
Base	77	118	CIM4 Min	-2.1304	-0.0178	-0.9033	-0.0343	-0.136	-0.0173
Base	77	118	CIM5 Max	0.3059	0.0296	3.4833	0.0547	0.1084	0.0277
Base	77	118	CIM5 Min	-2.1685	-0.0303	-0.7076	-0.055	-0.1178	-0.0275
Base	77	118	CIM6 Max	1.08	0.0232	3.8461	0.0455	0.1728	0.0231
Base	77	118	CIM6 Min	-2.1176	-0.0235	-2.2635	-0.0456	-0.1774	-0.0231
Base	77	118	CIM7 Max	1.1307	0.0398	3.5852	0.0731	0.1484	0.0368
Base	77	118	CIM7 Min	-2.1684	-0.0401	-2.0026	-0.0732	-0.1531	-0.0368
Base	79	120	CV	0.0611	0.0001	0.053	7.996E-06	-0.002	-2.81E-05
Base	79	120	CM	0.7613	0.0003	1.3518	-2.353E-06	-0.0074	-0.0001
Base	79	120	CIM1	0.8224	0.0004	1.4048	5.643E-06	-0.0093	-0.0001
Base	79	120	CIM2 Max	1.11	0.0014	3.028	0.0418	0.1434	0.0249
Base	79	120	CIM2 Min	0.4127	-0.0008	-0.3244	-0.0418	-0.1581	-0.0251
Base	79	120	CIM3 Max	1.0237	0.0344	2.6128	0.0628	0.1061	0.0375
Base	79	120	CIM3 Min	0.499	-0.0338	0.0908	-0.0628	-0.1208	-0.0377
Base	79	120	CIM4 Max	1.0687	0.0012	2.6488	0.0314	0.1043	0.0186
Base	79	120	CIM4 Min	0.5457	-0.0005	0.1344	-0.0314	-0.1219	-0.0188
Base	79	120	CIM5 Max	1.0039	0.0259	2.3373	0.0471	0.0763	0.0281
Base	79	120	CIM5 Min	0.6104	-0.0252	0.4458	-0.0471	-0.094	-0.0283
Base	79	120	CIM6 Max	0.8055	0.0013	2.4873	0.0418	0.1464	0.0249
Base	79	120	CIM6 Min	0.1082	-0.0009	-0.8652	-0.0418	-0.1552	-0.025
Base	79	120	CIM7 Max	0.7192	0.0343	2.0721	0.0628	0.1091	0.0375
Base	79	120	CIM7 Min	0.1944	-0.0339	-0.4499	-0.0628	-0.1179	-0.0377
Base	81	121	CV	-0.0709	-0.0001	0.0907	0.0001	-0.002	4.024E-05
Base	81	121	CM	-0.7978	-0.0002	1.4916	0.0002	-0.0074	0.0001
Base	81	121	CIM1	-0.8687	-0.0003	1.5823	0.0002	-0.0093	0.0002
Base	81	121	CIM2 Max	-0.5192	0.0228	3.0917	0.0439	0.1435	0.0268
Base	81	121	CIM2 Min	-1.0764	-0.0233	-0.1085	-0.0435	-0.1583	-0.0265
Base	81	121	CIM3 Max	-0.5877	0.0426	2.6957	0.0642	0.1062	0.0392
Base	81	121	CIM3 Min	-1.0079	-0.0431	0.2874	-0.0638	-0.1209	-0.0389
Base	81	121	CIM4 Max	-0.642	0.017	2.7597	0.033	0.1043	0.0202
Base	81	121	CIM4 Min	-1.0599	-0.0176	0.3595	-0.0325	-0.122	-0.0198
Base	81	121	CIM5 Max	-0.6934	0.0318	2.4627	0.0482	0.0763	0.0294
Base	81	121	CIM5 Min	-1.0085	-0.0324	0.6565	-0.0477	-0.094	-0.0291
Base	81	121	CIM6 Max	-0.2001	0.0229	2.4951	0.0438	0.1465	0.0268
Base	81	121	CIM6 Min	-0.7573	-0.0232	-0.7052	-0.0436	-0.1553	-0.0266
Base	81	121	CIM7 Max	-0.2685	0.0427	2.0991	0.0641	0.1092	0.0391
Base	81	121	CIM7 Min	-0.6888	-0.043	-0.3092	-0.0639	-0.118	-0.0389
Base	83	117	CV	0.0833	-0.0775	0.6498	-0.0176	-0.0032	-4.631E-06
Base	83	117	CM	0.8449	-0.2972	11.0566	-0.0643	-0.0119	-1.186E-05

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	83	117	CIM1	0.9282	-0.3748	11.7065	-0.0819	-0.0152	-1.649E-05
Base	83	117	CIM2 Max	1.5128	9.8182	17.5063	3.8501	0.5694	0.0217
Base	83	117	CIM2 Min	0.177	-10.4126	4.607	-3.9788	-0.5932	-0.0217
Base	83	117	CIM3 Max	1.7219	17.276	21.1963	6.4958	0.3993	0.0368
Base	83	117	CIM3 Min	-0.0321	-17.8705	0.917	-6.6245	-0.4231	-0.0368
Base	83	117	CIM4 Max	1.4083	7.2312	16.3812	2.8583	0.4216	0.0162
Base	83	117	CIM4 Min	0.4064	-7.9419	6.7068	-3.0133	-0.4503	-0.0163
Base	83	117	CIM5 Max	1.5651	12.8246	19.1487	4.8426	0.2941	0.0276
Base	83	117	CIM5 Min	0.2496	-13.5353	3.9393	-4.9976	-0.3228	-0.0276
Base	83	117	CIM6 Max	1.1748	9.9371	13.0836	3.8759	0.5742	0.0217
Base	83	117	CIM6 Min	-0.161	-10.2937	0.1844	-3.953	-0.5885	-0.0217
Base	83	117	CIM7 Max	1.3839	17.3949	16.7736	6.5216	0.4041	0.0368
Base	83	117	CIM7 Min	-0.3701	-17.7516	-3.5056	-6.5988	-0.4184	-0.0368
Base	85	129	CV	0.0647	0.0004	0.0604	-0.0001	0.001	-4.131E-05
Base	85	129	CM	0.7536	0.0019	1.0517	-0.0005	0.0043	-0.0001
Base	85	129	CIM1	0.8183	0.0024	1.1121	-0.0006	0.0054	-0.0002
Base	85	129	CIM2 Max	0.8274	0.01	1.9294	0.0316	0.0724	0.0227
Base	85	129	CIM2 Min	0.6797	-0.0062	0.174	-0.0326	-0.0637	-0.023
Base	85	129	CIM3 Max	0.8529	0.0301	1.7314	0.046	0.0556	0.033
Base	85	129	CIM3 Min	0.6542	-0.0263	0.372	-0.047	-0.0469	-0.0333
Base	85	129	CIM4 Max	0.8575	0.0083	1.7553	0.0235	0.0561	0.017
Base	85	129	CIM4 Min	0.7467	-0.0038	0.4387	-0.0247	-0.0459	-0.0174
Base	85	129	CIM5 Max	0.8766	0.0234	1.6068	0.0342	0.0435	0.0247
Base	85	129	CIM5 Min	0.7276	-0.0189	0.5872	-0.0355	-0.0333	-0.025
Base	85	129	CIM6 Max	0.526	0.0092	1.5088	0.0318	0.0706	0.0228
Base	85	129	CIM6 Min	0.3783	-0.0069	-0.2467	-0.0324	-0.0654	-0.023
Base	85	129	CIM7 Max	0.5515	0.0293	1.3107	0.0462	0.0539	0.033
Base	85	129	CIM7 Min	0.3528	-0.027	-0.0487	-0.0468	-0.0487	-0.0332
Base	87	130	CV	-0.0581	0.0002	0.0401	-0.0007	0.0011	4.874E-05
Base	87	130	CM	-0.726	0.0009	0.9655	-0.0029	0.0045	0.0002
Base	87	130	CIM1	-0.7841	0.0011	1.0056	-0.0035	0.0056	0.0002
Base	87	130	CIM2 Max	-0.4751	0.0245	2.0046	0.0445	0.0723	0.0241
Base	87	130	CIM2 Min	-0.977	-0.0227	-0.0736	-0.0503	-0.0633	-0.0238
Base	87	130	CIM3 Max	-0.5413	0.0425	1.7339	0.0656	0.0556	0.0348
Base	87	130	CIM3 Min	-0.9108	-0.0407	0.197	-0.0713	-0.0466	-0.0344
Base	87	130	CIM4 Max	-0.5813	0.0188	1.7749	0.0322	0.0562	0.0182
Base	87	130	CIM4 Min	-0.9578	-0.0167	0.2162	-0.0389	-0.0456	-0.0177
Base	87	130	CIM5 Max	-0.631	0.0323	1.5719	0.048	0.0436	0.0262
Base	87	130	CIM5 Min	-0.9082	-0.0302	0.4192	-0.0547	-0.033	-0.0257
Base	87	130	CIM6 Max	-0.1846	0.0242	1.6184	0.0457	0.0705	0.024
Base	87	130	CIM6 Min	-0.6866	-0.0231	-0.4598	-0.0491	-0.0651	-0.0238
Base	87	130	CIM7 Max	-0.2509	0.0422	1.3477	0.0668	0.0538	0.0347
Base	87	130	CIM7 Min	-0.6204	-0.0411	-0.1891	-0.0702	-0.0484	-0.0345
Base	89	131	CV	0.0127	4.919E-05	-0.0515	0.0001	-0.0033	-0.0001
Base	89	131	CM	0.5509	0.0002	0.2797	0.0003	-0.0129	-0.0003
Base	89	131	CIM1	0.5636	0.0002	0.2282	0.0003	-0.0161	-0.0003
Base	89	131	CIM2 Max	2.8203	0.0046	2.3831	0.019	0.0417	0.0272
Base	89	131	CIM2 Min	-1.7185	-0.0042	-1.8238	-0.0184	-0.0674	-0.0277
Base	89	131	CIM3 Max	3.7292	0.0236	3.0706	0.0276	0.0561	0.0407
Base	89	131	CIM3 Min	-2.6274	-0.0232	-2.5112	-0.0271	-0.0819	-0.0412

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	89	131	CIM4 Max	2.2625	0.0035	1.8187	0.0143	0.0256	0.0202
Base	89	131	CIM4 Min	-1.1416	-0.0031	-1.3365	-0.0137	-0.0562	-0.0209
Base	89	131	CIM5 Max	2.9442	0.0178	2.3343	0.0208	0.0364	0.0304
Base	89	131	CIM5 Min	-1.8233	-0.0173	-1.8521	-0.0202	-0.0671	-0.031
Base	89	131	CIM6 Max	2.5999	0.0045	2.2713	0.0189	0.0468	0.0273
Base	89	131	CIM6 Min	-1.9389	-0.0043	-1.9356	-0.0186	-0.0623	-0.0276
Base	89	131	CIM7 Max	3.5089	0.0235	2.9587	0.0275	0.0613	0.0408
Base	89	131	CIM7 Min	-2.8478	-0.0233	-2.6231	-0.0272	-0.0767	-0.0411
Base	91	132	CV	-0.0314	0.0169	0.0896	0.0014	-0.0038	0.0002
Base	91	132	CM	-0.6243	0.441	1.8204	0.0053	-0.0148	0.0006
Base	91	132	CIM1	-0.6556	0.4579	1.91	0.0067	-0.0185	0.0007
Base	91	132	CIM2 Max	1.3491	0.9813	4.1148	0.3571	0.0609	0.0355
Base	91	132	CIM2 Min	-2.5977	-0.0993	-0.474	-0.3466	-0.0905	-0.0344
Base	91	132	CIM3 Max	2.1637	1.2725	5.3269	0.5268	0.0699	0.0487
Base	91	132	CIM3 Min	-3.4123	-0.3905	-1.6861	-0.5163	-0.0994	-0.0475
Base	91	132	CIM4 Max	0.8323	0.8589	3.6083	0.2702	0.0392	0.0269
Base	91	132	CIM4 Min	-2.1278	0.0484	0.1668	-0.2576	-0.0744	-0.0255
Base	91	132	CIM5 Max	1.4432	1.0773	4.5174	0.3975	0.0459	0.0368
Base	91	132	CIM5 Min	-2.7388	-0.17	-0.7423	-0.3848	-0.0811	-0.0354
Base	91	132	CIM6 Max	1.5988	0.8049	3.3866	0.355	0.0668	0.0353
Base	91	132	CIM6 Min	-2.3479	-0.2757	-1.2021	-0.3487	-0.0846	-0.0346
Base	91	132	CIM7 Max	2.4134	1.0961	4.5987	0.5247	0.0758	0.0484
Base	91	132	CIM7 Min	-3.1625	-0.5669	-2.4142	-0.5184	-0.0935	-0.0477
Base	4	17	CV	-0.0003	-0.0246	0.0382	0.0015	-0.0004	-0.0001
Base	4	17	CM	-0.0011	-0.4693	1.1312	0.0054	-0.0016	-0.0003
Base	4	17	CIM1	-0.0014	-0.4938	1.1694	0.0069	-0.002	-0.0003
Base	4	17	CIM2 Max	0.0048	0.7015	4.2079	0.3403	0.0196	0.0113
Base	4	17	CIM2 Min	-0.0071	-1.64	-1.9455	-0.3295	-0.0228	-0.0119
Base	4	17	CIM3 Max	0.0085	1.1803	5.6099	0.5011	0.013	0.0074
Base	4	17	CIM3 Min	-0.0107	-2.1189	-3.3475	-0.4903	-0.0161	-0.0079
Base	4	17	CIM4 Max	0.0031	0.3904	3.4674	0.2577	0.014	0.0084
Base	4	17	CIM4 Min	-0.0058	-1.3658	-1.1476	-0.2446	-0.0178	-0.009
Base	4	17	CIM5 Max	0.0058	0.7495	4.5189	0.3783	0.009	0.0054
Base	4	17	CIM5 Min	-0.0086	-1.7249	-2.1991	-0.3652	-0.0128	-0.0061
Base	4	17	CIM6 Max	0.0052	0.8892	3.7554	0.3381	0.0202	0.0114
Base	4	17	CIM6 Min	-0.0066	-1.4523	-2.398	-0.3316	-0.0221	-0.0118
Base	4	17	CIM7 Max	0.0089	1.368	5.1574	0.4989	0.0136	0.0075
Base	4	17	CIM7 Min	-0.0103	-1.9312	-3.7999	-0.4924	-0.0155	-0.0078
Base	8	18	CV	-0.0017	0.028	0.0414	-0.0005	-0.0017	0.0001
Base	8	18	CM	-0.0068	0.4861	1.3403	-0.0021	-0.0065	0.0003
Base	8	18	CIM1	-0.0085	0.514	1.3817	-0.0026	-0.0081	0.0003
Base	8	18	CIM2 Max	0.0152	3.4641	7.5376	0.6895	0.0319	0.0118
Base	8	18	CIM2 Min	-0.0287	-2.492	-4.857	-0.6937	-0.0448	-0.0112
Base	8	18	CIM3 Max	0.0169	5.123	10.9522	1.0681	0.0194	0.0076
Base	8	18	CIM3 Min	-0.0304	-4.1509	-8.2716	-1.0723	-0.0323	-0.007
Base	8	18	CIM4 Max	0.0084	2.7405	6.0193	0.5163	0.0211	0.009
Base	8	18	CIM4 Min	-0.0245	-1.7265	-3.2766	-0.5212	-0.0365	-0.0083
Base	8	18	CIM5 Max	0.0097	3.9847	8.5803	0.8002	0.0117	0.0058
Base	8	18	CIM5 Min	-0.0258	-2.9706	-5.8376	-0.8051	-0.0271	-0.0051
Base	8	18	CIM6 Max	0.0179	3.2696	7.0014	0.6904	0.0345	0.0117

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	8	18	CIM6 Min	-0.026	-2.6864	-5.3931	-0.6929	-0.0423	-0.0114
Base	8	18	CIM7 Max	0.0196	4.9285	10.4161	1.069	0.022	0.0074
Base	8	18	CIM7 Min	-0.0277	-4.3453	-8.8077	-1.0715	-0.0297	-0.0071
Base	11	19	CV	-0.0008	0.0053	0.0817	-0.0016	-0.0019	-0.0001
Base	11	19	CM	-0.0033	-0.1431	2.0877	-0.0062	-0.0075	-0.0002
Base	11	19	CIM1	-0.0041	-0.1378	2.1694	-0.0078	-0.0094	-0.0003
Base	11	19	CIM2 Max	0.0097	1.1589	3.4651	1.1053	0.0363	0.0089
Base	11	19	CIM2 Min	-0.0162	-1.445	0.7103	-1.1177	-0.0513	-0.0093
Base	11	19	CIM3 Max	0.007	1.835	3.2121	1.7217	0.0199	0.0052
Base	11	19	CIM3 Min	-0.0136	-2.1211	0.9633	-1.7341	-0.0349	-0.0056
Base	11	19	CIM4 Max	0.0058	0.8374	3.182	0.8262	0.0239	0.0066
Base	11	19	CIM4 Min	-0.0136	-1.1156	1.1159	-0.841	-0.0418	-0.0071
Base	11	19	CIM5 Max	0.0038	1.3445	2.9923	1.2885	0.0116	0.0038
Base	11	19	CIM5 Min	-0.0116	-1.6226	1.3056	-1.3033	-0.0295	-0.0043
Base	11	19	CIM6 Max	0.011	1.2161	2.63	1.1078	0.0393	0.009
Base	11	19	CIM6 Min	-0.0149	-1.3878	-0.1248	-1.1152	-0.0483	-0.0093
Base	11	19	CIM7 Max	0.0083	1.8922	2.377	1.7242	0.0229	0.0053
Base	11	19	CIM7 Min	-0.0123	-2.0639	0.1282	-1.7316	-0.0319	-0.0055
Base	14	197	CV	-0.0668	-0.022	0.1461	-0.0003	-0.0101	-5.15E-06
Base	14	197	CM	-0.4656	-0.2997	1.9371	-0.0011	-0.0374	-1.927E-05
Base	14	197	CIM1	-0.5324	-0.3217	2.0832	-0.0014	-0.0474	-2.442E-05
Base	14	197	CIM2 Max	0.1244	1.5423	6.93	0.4294	0.3349	0.0026
Base	14	197	CIM2 Min	-1.0557	-2.1417	-3.0558	-0.4317	-0.4096	-0.0027
Base	14	197	CIM3 Max	-0.0332	2.4033	8.6793	0.6707	0.3381	0.0036
Base	14	197	CIM3 Min	-0.8981	-3.0026	-4.8051	-0.6729	-0.4128	-0.0036
Base	14	197	CIM4 Max	-0.0732	1.0653	5.7913	0.3216	0.2343	0.002
Base	14	197	CIM4 Min	-0.9583	-1.6977	-1.698	-0.3242	-0.3241	-0.002
Base	14	197	CIM5 Max	-0.1914	1.711	7.1033	0.5025	0.2367	0.0027
Base	14	197	CIM5 Min	-0.8401	-2.3434	-3.01	-0.5052	-0.3265	-0.0027
Base	14	197	CIM6 Max	0.3107	1.6622	6.1551	0.4299	0.3498	0.0026
Base	14	197	CIM6 Min	-0.8695	-2.0218	-3.8307	-0.4312	-0.3947	-0.0027
Base	14	197	CIM7 Max	0.153	2.5231	7.9045	0.6711	0.3531	0.0036
Base	14	197	CIM7 Min	-0.7118	-2.8827	-5.58	-0.6725	-0.3979	-0.0036
Base	15	57	CV	0.0003	0.0263	-0.0544	-0.0062	-0.0002	-0.0002
Base	15	57	CM	0.001	-0.4323	1.3044	-0.0239	-0.0008	-0.0008
Base	15	57	CIM1	0.0013	-0.4061	1.25	-0.03	-0.001	-0.001
Base	15	57	CIM2 Max	0.0255	3.0653	7.0058	0.344	0.0926	0.033
Base	15	57	CIM2 Min	-0.0234	-3.93	-4.3971	-0.3918	-0.0942	-0.0346
Base	15	57	CIM3 Max	0.0283	7.7854	18.2033	1.3541	0.0633	0.0213
Base	15	57	CIM3 Min	-0.0262	-8.6501	-15.5946	-1.4018	-0.0649	-0.0229
Base	15	57	CIM4 Max	0.0196	2.2106	5.5397	0.2474	0.0691	0.0244
Base	15	57	CIM4 Min	-0.0171	-3.0359	-3.0125	-0.3045	-0.071	-0.0263
Base	15	57	CIM5 Max	0.0217	5.7507	13.9378	1.005	0.0471	0.0156
Base	15	57	CIM5 Min	-0.0192	-6.5759	-11.4106	-1.062	-0.0491	-0.0176
Base	15	57	CIM6 Max	0.0251	3.2382	6.4841	0.3536	0.0929	0.0333
Base	15	57	CIM6 Min	-0.0238	-3.7571	-4.9188	-0.3823	-0.0939	-0.0343
Base	15	57	CIM7 Max	0.0279	7.9583	17.6815	1.3636	0.0636	0.0216
Base	15	57	CIM7 Min	-0.0266	-8.4771	-16.1163	-1.3923	-0.0646	-0.0226
Base	17	60	CV	0.0006	0.0382	0.0247	0.0004	-0.0003	0.0002
Base	17	60	CM	0.0024	0.6941	0.8834	0.002	-0.001	0.0007

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	17	60	CIM1	0.003	0.7323	0.9081	0.0024	-0.0013	0.0009
Base	17	60	CIM2 Max	0.0235	0.7672	0.9891	0.0088	0.0356	0.0339
Base	17	60	CIM2 Min	-0.0186	0.6211	0.7777	-0.0048	-0.0376	-0.0324
Base	17	60	CIM3 Max	0.0427	1.0187	3.1961	0.1569	0.0212	0.0208
Base	17	60	CIM3 Min	-0.0379	0.3695	-1.4293	-0.1529	-0.0232	-0.0193
Base	17	60	CIM4 Max	0.0187	0.7775	0.9812	0.0074	0.0263	0.0258
Base	17	60	CIM4 Min	-0.0129	0.668	0.8226	-0.0028	-0.0286	-0.024
Base	17	60	CIM5 Max	0.0331	0.9662	2.6365	0.1185	0.0154	0.0159
Base	17	60	CIM5 Min	-0.0274	0.4793	-0.8326	-0.1139	-0.0178	-0.0141
Base	17	60	CIM6 Max	0.0225	0.4895	0.6357	0.008	0.036	0.0336
Base	17	60	CIM6 Min	-0.0196	0.3435	0.4243	-0.0056	-0.0372	-0.0327
Base	17	60	CIM7 Max	0.0418	0.7411	2.8428	0.1561	0.0216	0.0205
Base	17	60	CIM7 Min	-0.0389	0.0919	-1.7827	-0.1537	-0.0228	-0.0196
Base	20	61	CV	0.0005	-0.041	0.0336	0.0004	0.0014	-0.0002
Base	20	61	CM	0.0019	-0.707	0.9262	0.002	0.0055	-0.0007
Base	20	61	CIM1	0.0024	-0.748	0.9598	0.0024	0.0069	-0.0009
Base	20	61	CIM2 Max	0.0161	-0.6255	1.0504	0.0088	0.0527	0.0321
Base	20	61	CIM2 Min	-0.0123	-0.7885	0.802	-0.0048	-0.0417	-0.0335
Base	20	61	CIM3 Max	0.0337	-0.3254	3.281	0.1569	0.0346	0.0187
Base	20	61	CIM3 Min	-0.0299	-1.0885	-1.4286	-0.1529	-0.0235	-0.0202
Base	20	61	CIM4 Max	0.0129	-0.6766	1.0446	0.0074	0.042	0.0238
Base	20	61	CIM4 Min	-0.0084	-0.7988	0.8583	-0.0028	-0.0288	-0.0255
Base	20	61	CIM5 Max	0.0261	-0.4515	2.7175	0.1185	0.0284	0.0137
Base	20	61	CIM5 Min	-0.0215	-1.0239	-0.8147	-0.1139	-0.0152	-0.0154
Base	20	61	CIM6 Max	0.0154	-0.3427	0.6799	0.008	0.0505	0.0324
Base	20	61	CIM6 Min	-0.0131	-0.5057	0.4315	-0.0056	-0.0439	-0.0333
Base	20	61	CIM7 Max	0.0329	-0.0426	2.9105	0.1561	0.0324	0.019
Base	20	61	CIM7 Min	-0.0306	-0.8058	-1.7991	-0.1537	-0.0258	-0.0199
Base	22	233	CV	0.0001	0.042	0.0154	0.0001	0.0004	0.0002
Base	22	233	CM	0.0002	0.6974	0.495	0.0004	0.0017	0.0007
Base	22	233	CIM1	0.0002	0.7393	0.5105	0.0005	0.0021	0.0009
Base	22	233	CIM2 Max	0.0151	2.2914	1.1787	0.0044	0.0298	0.0331
Base	22	233	CIM2 Min	-0.0147	-0.8967	-0.1887	-0.0037	-0.0264	-0.0317
Base	22	233	CIM3 Max	0.034	3.7286	3.8282	0.094	0.0184	0.0203
Base	22	233	CIM3 Min	-0.0336	-2.3339	-2.8382	-0.0933	-0.015	-0.019
Base	22	233	CIM4 Max	0.0114	1.9244	1.0194	0.0035	0.0231	0.0251
Base	22	233	CIM4 Min	-0.0109	-0.4667	-0.0062	-0.0026	-0.019	-0.0235
Base	22	233	CIM5 Max	0.0256	3.0023	3.0065	0.0707	0.0146	0.0156
Base	22	233	CIM5 Min	-0.0251	-1.5446	-1.9933	-0.0698	-0.0105	-0.014
Base	22	233	CIM6 Max	0.015	2.0125	0.9807	0.0043	0.0291	0.0328
Base	22	233	CIM6 Min	-0.0148	-1.1756	-0.3867	-0.0039	-0.0271	-0.032
Base	22	233	CIM7 Max	0.0339	3.4497	3.6302	0.0939	0.0178	0.0201
Base	22	233	CIM7 Min	-0.0337	-2.6128	-3.0362	-0.0935	-0.0157	-0.0193
Base	24	237	CV	0.0002	-0.0329	0.0164	0.0001	0.0005	-0.0002
Base	24	237	CM	0.0008	-0.6631	0.5477	0.0003	0.0018	-0.0006
Base	24	237	CIM1	0.001	-0.696	0.5642	0.0004	0.0022	-0.0008
Base	24	237	CIM2 Max	0.0134	0.9166	1.2997	0.005	0.0317	0.0315
Base	24	237	CIM2 Min	-0.0118	-2.2428	-0.2042	-0.0043	-0.0281	-0.0327
Base	24	237	CIM3 Max	0.0368	1.5237	3.6458	0.1062	0.0214	0.0201
Base	24	237	CIM3 Min	-0.0352	-2.85	-2.5503	-0.1056	-0.0178	-0.0214

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	24	237	CIM4 Max	0.0104	0.497	1.124	0.0039	0.0246	0.0233
Base	24	237	CIM4 Min	-0.0084	-1.8725	-0.0039	-0.0031	-0.0203	-0.0248
Base	24	237	CIM5 Max	0.028	0.9524	2.8836	0.0798	0.0168	0.0148
Base	24	237	CIM5 Min	-0.026	-2.3279	-1.7635	-0.079	-0.0126	-0.0164
Base	24	237	CIM6 Max	0.0131	1.1818	1.0806	0.0048	0.031	0.0317
Base	24	237	CIM6 Min	-0.0121	-1.9776	-0.4233	-0.0045	-0.0289	-0.0325
Base	24	237	CIM7 Max	0.0365	1.789	3.4267	0.1061	0.0207	0.0204
Base	24	237	CIM7 Min	-0.0355	-2.5847	-2.7694	-0.1057	-0.0185	-0.0212
Base	26	67	CV	0.0575	0.0374	0.1436	-0.0068	0.007	0.0002
Base	26	67	CM	0.5063	0.6789	2.7265	-0.0234	0.0276	0.0007
Base	26	67	CIM1	0.5638	0.7163	2.8701	-0.0303	0.0346	0.0009
Base	26	67	CIM2 Max	2.1929	2.403	5.7312	0.0662	0.8957	0.0325
Base	26	67	CIM2 Min	-1.1803	-1.0452	-0.2781	-0.113	-0.8406	-0.0311
Base	26	67	CIM3 Max	1.6961	1.7201	8.8417	0.3132	0.5642	0.0196
Base	26	67	CIM3 Min	-0.6835	-0.3623	-3.3887	-0.3601	-0.509	-0.0182
Base	26	67	CIM4 Max	1.8144	2	5.0877	0.0386	0.684	0.0247
Base	26	67	CIM4 Min	-0.7155	-0.5862	0.5807	-0.0957	-0.6183	-0.023
Base	26	67	CIM5 Max	1.4418	1.4878	7.4206	0.2239	0.4353	0.015
Base	26	67	CIM5 Min	-0.3429	-0.074	-1.7522	-0.281	-0.3696	-0.0133
Base	26	67	CIM6 Max	1.9904	2.1314	4.6406	0.0755	0.8847	0.0322
Base	26	67	CIM6 Min	-1.3828	-1.3168	-1.3687	-0.1036	-0.8516	-0.0314
Base	26	67	CIM7 Max	1.4936	1.4485	7.7511	0.3226	0.5531	0.0193
Base	26	67	CIM7 Min	-0.886	-0.6339	-4.4793	-0.3507	-0.52	-0.0185
Base	29	69	CV	0.0002	-0.0294	0.0106	-0.0008	0.0003	-0.0002
Base	29	69	CM	0.0006	-0.6531	0.7865	-0.0024	0.001	-0.0006
Base	29	69	CIM1	0.0007	-0.6825	0.7971	-0.0032	0.0013	-0.0007
Base	29	69	CIM2 Max	0.0154	1.5823	3.3367	0.0873	0.0432	0.0311
Base	29	69	CIM2 Min	-0.0142	-2.8885	-1.7637	-0.0922	-0.0412	-0.0323
Base	29	69	CIM3 Max	0.0385	1.1832	5.4497	0.2806	0.03	0.0238
Base	29	69	CIM3 Min	-0.0373	-2.4895	-3.8768	-0.2855	-0.028	-0.0249
Base	29	69	CIM4 Max	0.0118	1.0014	2.7071	0.0643	0.0328	0.0231
Base	29	69	CIM4 Min	-0.0104	-2.3517	-1.1182	-0.0704	-0.0305	-0.0245
Base	29	69	CIM5 Max	0.0291	0.7021	4.2918	0.2092	0.023	0.0176
Base	29	69	CIM5 Min	-0.0277	-2.0524	-2.703	-0.2153	-0.0206	-0.0189
Base	29	69	CIM6 Max	0.0152	1.8435	3.0221	0.0883	0.0428	0.0314
Base	29	69	CIM6 Min	-0.0145	-2.6273	-2.0783	-0.0912	-0.0416	-0.0321
Base	29	69	CIM7 Max	0.0383	1.4445	5.1351	0.2816	0.0296	0.024
Base	29	69	CIM7 Min	-0.0376	-2.2282	-4.1914	-0.2845	-0.0284	-0.0247
Base	31	75	CV	-0.0001	0.0214	0.0357	-0.0014	-0.0001	0.0001
Base	31	75	CM	-0.0004	0.6137	1.4962	-0.005	-0.0005	0.0005
Base	31	75	CIM1	-0.0005	0.6351	1.5319	-0.0064	-0.0006	0.0007
Base	31	75	CIM2 Max	0.0184	1.5215	2.9539	0.0798	0.0545	0.0322
Base	31	75	CIM2 Min	-0.0191	-0.2941	0.0385	-0.0898	-0.0555	-0.0311
Base	31	75	CIM3 Max	0.025	5.0445	12.0932	0.9436	0.0514	0.0267
Base	31	75	CIM3 Min	-0.0258	-3.817	-9.1007	-0.9536	-0.0524	-0.0256
Base	31	75	CIM4 Max	0.0136	1.3106	2.6163	0.0575	0.0406	0.0244
Base	31	75	CIM4 Min	-0.0145	-0.0511	0.4297	-0.0696	-0.0418	-0.0231
Base	31	75	CIM5 Max	0.0186	3.9528	9.4707	0.7054	0.0383	0.0203
Base	31	75	CIM5 Min	-0.0195	-2.6933	-6.4247	-0.7175	-0.0395	-0.0189
Base	31	75	CIM6 Max	0.0185	1.276	2.3554	0.0818	0.0547	0.0319

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	31	75	CIM6 Min	-0.019	-0.5396	-0.56	-0.0878	-0.0553	-0.0313
Base	31	75	CIM7 Max	0.0252	4.799	11.4947	0.9456	0.0516	0.0265
Base	31	75	CIM7 Min	-0.0257	-4.0625	-9.6992	-0.9516	-0.0522	-0.0258
Base	38	112	CV	0.0229	-0.0152	0.0465	-0.0015	0.0018	3.267E-05
Base	38	112	CM	0.6189	-0.5919	2.3917	-0.0055	0.0067	0.0001
Base	38	112	CIM1	0.6418	-0.6071	2.4382	-0.007	0.0084	0.0002
Base	38	112	CIM2 Max	0.9971	-0.1407	3.8355	0.0821	0.1948	0.0325
Base	38	112	CIM2 Min	0.2408	-1.0432	0.9478	-0.0931	-0.1814	-0.0323
Base	38	112	CIM3 Max	3.816	-0.2178	7.2707	1.0375	0.3826	0.1079
Base	38	112	CIM3 Min	-2.5781	-0.966	-2.4874	-1.0484	-0.3693	-0.1077
Base	38	112	CIM4 Max	0.9197	-0.2649	3.5095	0.0591	0.1491	0.0245
Base	38	112	CIM4 Min	0.3525	-0.9418	1.3437	-0.0724	-0.1331	-0.0241
Base	38	112	CIM5 Max	3.0339	-0.3228	6.0859	0.7756	0.29	0.081
Base	38	112	CIM5 Min	-1.7617	-0.8839	-1.2327	-0.7888	-0.274	-0.0807
Base	38	112	CIM6 Max	0.7495	0.0961	2.8789	0.0843	0.1921	0.0325
Base	38	112	CIM6 Min	-0.0068	-0.8064	-0.0089	-0.0909	-0.1841	-0.0323
Base	38	112	CIM7 Max	3.5684	0.019	6.3141	1.0396	0.38	0.1079
Base	38	112	CIM7 Min	-2.8257	-0.7293	-3.4441	-1.0462	-0.372	-0.1077
Base	69	114	CV	-0.011	-4.319E-05	-0.0079	-0.0001	0.002	-0.0002
Base	69	114	CM	-0.5746	-0.0002	0.8226	-0.0005	0.0074	-0.0006
Base	69	114	CIM1	-0.5856	-0.0002	0.8147	-0.0007	0.0094	-0.0007
Base	69	114	CIM2 Max	0.4656	0.011	3.0552	0.0036	0.1377	0.002
Base	69	114	CIM2 Min	-1.6149	-0.0113	-1.4101	-0.0047	-0.1229	-0.0032
Base	69	114	CIM3 Max	4.4244	0.0175	7.9175	0.0859	0.3294	0.0788
Base	69	114	CIM3 Min	-5.5736	-0.0178	-6.2723	-0.0869	-0.3146	-0.08
Base	69	114	CIM4 Max	0.1973	0.0082	2.4911	0.0025	0.1066	0.0012
Base	69	114	CIM4 Min	-1.3631	-0.0086	-0.8578	-0.0038	-0.0888	-0.0027
Base	69	114	CIM5 Max	3.1664	0.013	6.1378	0.0641	0.2504	0.0589
Base	69	114	CIM5 Min	-4.3321	-0.0134	-4.5045	-0.0654	-0.2326	-0.0603
Base	69	114	CIM6 Max	0.6955	0.0111	2.7262	0.0038	0.1347	0.0022
Base	69	114	CIM6 Min	-1.385	-0.0113	-1.7391	-0.0045	-0.1258	-0.003
Base	69	114	CIM7 Max	4.6543	0.0175	7.5884	0.0861	0.3264	0.0791
Base	69	114	CIM7 Min	-5.3438	-0.0177	-6.6014	-0.0867	-0.3175	-0.0798
Base	75	140	CV	0.0619	0.0001	0.041	-0.0001	0.0007	0.0002
Base	75	140	CM	0.7691	0.0004	0.6134	-0.0004	0.0027	0.0006
Base	75	140	CIM1	0.831	0.0005	0.6544	-0.0005	0.0034	0.0007
Base	75	140	CIM2 Max	0.9996	0.0117	1.3928	0.0012	0.0438	0.0029
Base	75	140	CIM2 Min	0.5386	-0.011	-0.1659	-0.0019	-0.0384	-0.0017
Base	75	140	CIM3 Max	1.2384	0.046	1.4634	0.0503	0.0522	0.0774
Base	75	140	CIM3 Min	0.2998	-0.0452	-0.2365	-0.051	-0.0468	-0.0763
Base	75	140	CIM4 Max	0.9884	0.009	1.2287	0.0007	0.034	0.0024
Base	75	140	CIM4 Min	0.6427	-0.008	0.0596	-0.0016	-0.0276	-0.001
Base	75	140	CIM5 Max	1.1675	0.0347	1.2816	0.0375	0.0404	0.0583
Base	75	140	CIM5 Min	0.4636	-0.0337	0.0067	-0.0384	-0.0339	-0.057
Base	75	140	CIM6 Max	0.692	0.0116	1.1474	0.0013	0.0427	0.0026
Base	75	140	CIM6 Min	0.231	-0.0111	-0.4113	-0.0018	-0.0395	-0.002
Base	75	140	CIM7 Max	0.9308	0.0458	1.218	0.0504	0.0511	0.0772
Base	75	140	CIM7 Min	-0.0078	-0.0454	-0.4819	-0.0509	-0.0479	-0.0765
Base	76	141	CV	-0.0578	-0.0001	0.0108	-0.0001	0.0007	-0.0001
Base	76	141	CM	-0.7536	-0.0002	0.5007	-0.0003	0.0027	-0.0005

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	76	141	CIM1	-0.8114	-0.0003	0.5116	-0.0004	0.0034	-0.0007
Base	76	141	CIM2 Max	-0.3046	0.0112	1.5739	0.0012	0.0438	0.0018
Base	76	141	CIM2 Min	-1.2027	-0.0116	-0.5724	-0.0019	-0.0384	-0.0029
Base	76	141	CIM3 Max	-0.0219	0.0237	1.8591	0.0475	0.0522	0.0745
Base	76	141	CIM3 Min	-1.4854	-0.0241	-0.8576	-0.0482	-0.0468	-0.0756
Base	76	141	CIM4 Max	-0.4602	0.0083	1.3137	0.0008	0.034	0.0011
Base	76	141	CIM4 Min	-1.1337	-0.0088	-0.296	-0.0016	-0.0276	-0.0024
Base	76	141	CIM5 Max	-0.2482	0.0177	1.5277	0.0355	0.0403	0.0557
Base	76	141	CIM5 Min	-1.3458	-0.0182	-0.5099	-0.0363	-0.0339	-0.057
Base	76	141	CIM6 Max	-0.0031	0.0113	1.3736	0.0014	0.0427	0.002
Base	76	141	CIM6 Min	-0.9012	-0.0115	-0.7727	-0.0018	-0.0395	-0.0026
Base	76	141	CIM7 Max	0.2795	0.0237	1.6588	0.0477	0.0511	0.0748
Base	76	141	CIM7 Min	-1.1839	-0.024	-1.0579	-0.0481	-0.0479	-0.0754
Base	78	142	CV	0.0519	0.0001	0.0041	-0.0001	-0.0011	0.0001
Base	78	142	CM	0.7311	0.0004	0.5133	-0.0003	-0.0041	0.0005
Base	78	142	CIM1	0.783	0.0005	0.5174	-0.0004	-0.0052	0.0006
Base	78	142	CIM2 Max	1.2129	0.0113	1.6566	0.002	0.0425	0.0034
Base	78	142	CIM2 Min	0.2493	-0.0106	-0.63	-0.0027	-0.0506	-0.0024
Base	78	142	CIM3 Max	1.0597	0.0466	1.4224	0.0532	0.0344	0.0719
Base	78	142	CIM3 Min	0.4024	-0.0458	-0.3958	-0.0539	-0.0425	-0.0709
Base	78	142	CIM4 Max	1.1314	0.0087	1.3739	0.0014	0.03	0.0028
Base	78	142	CIM4 Min	0.4087	-0.0078	-0.3411	-0.0022	-0.0398	-0.0016
Base	78	142	CIM5 Max	1.0165	0.0351	1.1982	0.0398	0.0239	0.0542
Base	78	142	CIM5 Min	0.5235	-0.0342	-0.1654	-0.0406	-0.0337	-0.0529
Base	78	142	CIM6 Max	0.9205	0.0112	1.4513	0.0022	0.0441	0.0032
Base	78	142	CIM6 Min	-0.0432	-0.0107	-0.8353	-0.0026	-0.049	-0.0026
Base	78	142	CIM7 Max	0.7673	0.0464	1.2171	0.0534	0.036	0.0717
Base	78	142	CIM7 Min	0.11	-0.046	-0.6011	-0.0538	-0.0409	-0.0711
Base	80	143	CV	-0.058	-0.0001	0.0474	-0.0001	-0.0011	-0.0001
Base	80	143	CM	-0.7539	-0.0002	0.6749	-0.0003	-0.0041	-0.0005
Base	80	143	CIM1	-0.8119	-0.0003	0.7224	-0.0004	-0.0052	-0.0006
Base	80	143	CIM2 Max	-0.5179	0.0116	1.4823	0.0022	0.0425	0.0029
Base	80	143	CIM2 Min	-0.9899	-0.0121	-0.1324	-0.0029	-0.0506	-0.0039
Base	80	143	CIM3 Max	-0.5901	0.0234	1.3991	0.0473	0.0344	0.069
Base	80	143	CIM3 Min	-0.9177	-0.0238	-0.0492	-0.048	-0.0425	-0.07
Base	80	143	CIM4 Max	-0.6204	0.0086	1.316	0.0015	0.03	0.002
Base	80	143	CIM4 Min	-0.9744	-0.0091	0.105	-0.0023	-0.0398	-0.0032
Base	80	143	CIM5 Max	-0.6746	0.0174	1.2536	0.0353	0.024	0.0515
Base	80	143	CIM5 Min	-0.9203	-0.0179	0.1674	-0.0362	-0.0337	-0.0527
Base	80	143	CIM6 Max	-0.2163	0.0117	1.2123	0.0023	0.0441	0.0031
Base	80	143	CIM6 Min	-0.6883	-0.012	-0.4024	-0.0027	-0.049	-0.0037
Base	80	143	CIM7 Max	-0.2885	0.0234	1.1291	0.0475	0.036	0.0692
Base	80	143	CIM7 Min	-0.6162	-0.0237	-0.3192	-0.0479	-0.0409	-0.0698
Base	82	193	CV	0.0105	0.0001	-0.015	4.594E-05	-0.0008	0.0001
Base	82	193	CM	0.5729	0.0002	0.3461	0.0002	-0.0029	0.0005
Base	82	193	CIM1	0.5834	0.0003	0.3311	0.0003	-0.0037	0.0006
Base	82	193	CIM2 Max	3.8606	0.0109	7.0028	0.0143	0.2276	0.0046
Base	82	193	CIM2 Min	-2.7147	-0.0104	-6.3106	-0.0138	-0.2334	-0.0037
Base	82	193	CIM3 Max	2.8372	0.0537	5.8804	0.0836	0.207	0.0676
Base	82	193	CIM3 Min	-1.6914	-0.0532	-5.1882	-0.0831	-0.2128	-0.0666

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	82	193	CIM4 Max	3.0465	0.0083	5.3274	0.0108	0.1694	0.0037
Base	82	193	CIM4 Min	-1.8849	-0.0077	-4.6577	-0.0103	-0.1763	-0.0026
Base	82	193	CIM5 Max	2.279	0.0404	4.4856	0.0628	0.1539	0.0509
Base	82	193	CIM5 Min	-1.1174	-0.0398	-3.8158	-0.0623	-0.1609	-0.0498
Base	82	193	CIM6 Max	3.6314	0.0108	6.8644	0.0142	0.2287	0.0045
Base	82	193	CIM6 Min	-2.9439	-0.0105	-6.4491	-0.0139	-0.2322	-0.0039
Base	82	193	CIM7 Max	2.608	0.0536	5.7419	0.0835	0.2081	0.0674
Base	82	193	CIM7 Min	-1.9205	-0.0533	-5.3266	-0.0832	-0.2116	-0.0668
Base	88	357	CV	0.0656	-0.011	0.1462	0.0012	0.0086	1.062E-05
Base	88	357	CM	0.4613	-0.041	2.5045	0.0044	0.0324	4.001E-05
Base	88	357	CIM1	0.5269	-0.052	2.6508	0.0056	0.0409	0.0001
Base	88	357	CIM2 Max	1.4081	0.1131	5.3536	0.0137	0.6564	0.0003
Base	88	357	CIM2 Min	-0.4855	-0.1951	-0.3445	-0.0049	-0.5917	-0.0002
Base	88	357	CIM3 Max	1.0484	3.7546	4.3417	0.2333	0.4161	0.0053
Base	88	357	CIM3 Min	-0.1258	-3.8366	0.6673	-0.2245	-0.3514	-0.0053
Base	88	357	CIM4 Max	1.2206	0.0663	4.751	0.0123	0.5068	0.0002
Base	88	357	CIM4 Min	-0.1996	-0.1648	0.4774	-0.0017	-0.4292	-0.0001
Base	88	357	CIM5 Max	0.9508	2.7975	3.9921	0.177	0.3266	0.004
Base	88	357	CIM5 Min	0.0702	-2.896	1.2363	-0.1664	-0.249	-0.0039
Base	88	357	CIM6 Max	1.2236	0.1295	4.3518	0.0119	0.6435	0.0002
Base	88	357	CIM6 Min	-0.67	-0.1787	-1.3463	-0.0067	-0.6046	-0.0002
Base	88	357	CIM7 Max	0.8639	3.771	3.3399	0.2316	0.4032	0.0053
Base	88	357	CIM7 Min	-0.3103	-3.8202	-0.3345	-0.2263	-0.3643	-0.0053
Base	114	189	CV	-0.1034	-0.0268	0.1308	0.0187	0.0079	-0.0001
Base	114	189	CM	-0.9183	-0.0999	1.9541	0.0696	0.0298	-0.0004
Base	114	189	CIM1	-1.0217	-0.1267	2.0849	0.0883	0.0377	-0.0005
Base	114	189	CIM2 Max	0.5572	-0.0823	5.7163	0.0848	0.3743	0.0058
Base	114	189	CIM2 Min	-2.3939	-0.1175	-1.8082	0.0545	-0.3148	-0.0066
Base	114	189	CIM3 Max	0.4503	-0.0617	4.9146	0.2015	0.274	0.061
Base	114	189	CIM3 Min	-2.2869	-0.1381	-1.0064	-0.0623	-0.2145	-0.0619
Base	114	189	CIM4 Max	0.1108	-0.1068	4.8739	0.095	0.2942	0.0042
Base	114	189	CIM4 Min	-2.1025	-0.1332	-0.7695	0.0723	-0.2227	-0.0052
Base	114	189	CIM5 Max	0.0306	-0.0914	4.2725	0.1826	0.2189	0.0456
Base	114	189	CIM5 Min	-2.0223	-0.1487	-0.1682	-0.0152	-0.1475	-0.0466
Base	114	189	CIM6 Max	0.9246	-0.0424	4.9347	0.0569	0.3624	0.006
Base	114	189	CIM6 Min	-2.0266	-0.0775	-2.5898	0.0266	-0.3267	-0.0065
Base	114	189	CIM7 Max	0.8176	-0.0217	4.1329	0.1737	0.2621	0.0612
Base	114	189	CIM7 Min	-1.9196	-0.0982	-1.7881	-0.0901	-0.2264	-0.0617
Base	115	243	CV	0.0242	-0.0263	0.0514	0.0273	-0.0116	0.0001
Base	115	243	CM	0.6252	-0.0983	2.2324	0.102	-0.0434	0.0004
Base	115	243	CIM1	0.6494	-0.1246	2.2838	0.1293	-0.055	0.0005
Base	115	243	CIM2 Max	6.358	-0.0811	13.6728	0.1316	1.189	0.0081
Base	115	243	CIM2 Min	-5.1075	-0.1156	-9.208	0.0724	-1.2758	-0.0074
Base	115	243	CIM3 Max	4.0476	0.01	9.0828	0.3009	0.7048	0.058
Base	115	243	CIM3 Min	-2.7971	-0.2066	-4.6179	-0.0968	-0.7916	-0.0573
Base	115	243	CIM4 Max	4.9429	-0.1051	10.8513	0.1447	0.8722	0.0062
Base	115	243	CIM4 Min	-3.6562	-0.131	-6.3093	0.1003	-0.9764	-0.0054
Base	115	243	CIM5 Max	3.2101	-0.0368	7.4087	0.2716	0.5091	0.0437
Base	115	243	CIM5 Min	-1.9234	-0.1993	-2.8668	-0.0267	-0.6133	-0.0428
Base	115	243	CIM6 Max	6.1079	-0.0418	12.7799	0.0908	1.2064	0.008

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	115	243	CIM6 Min	-5.3576	-0.0762	-10.1009	0.0316	-1.2585	-0.0075
Base	115	243	CIM7 Max	3.7975	0.0493	8.1898	0.2601	0.7222	0.0579
Base	115	243	CIM7 Min	-3.0472	-0.1673	-5.5109	-0.1377	-0.7743	-0.0574
Base	116	245	CV	-0.0958	-0.0293	0.2386	0.0338	-0.0059	-4.484E-05
Base	116	245	CM	-0.8922	-0.1073	3.6925	0.124	-0.0228	-0.0002
Base	116	245	CIM1	-0.9879	-0.1366	3.9311	0.1579	-0.0288	-0.0002
Base	116	245	CIM2 Max	6.1118	-0.0816	17.1698	0.1788	1.9374	0.0146
Base	116	245	CIM2 Min	-7.8961	-0.133	-9.7848	0.0693	-1.9831	-0.0149
Base	116	245	CIM3 Max	3.7612	-0.0694	12.6057	0.2981	1.2461	0.0431
Base	116	245	CIM3 Min	-5.5455	-0.1452	-5.2207	-0.0501	-1.2918	-0.0435
Base	116	245	CIM4 Max	4.289	-0.11	13.9794	0.1905	1.4429	0.0109
Base	116	245	CIM4 Min	-6.217	-0.1485	-6.2365	0.1084	-1.4975	-0.0113
Base	116	245	CIM5 Max	2.526	-0.1008	10.5564	0.28	0.9244	0.0323
Base	116	245	CIM5 Min	-4.454	-0.1577	-2.8135	0.0188	-0.979	-0.0327
Base	116	245	CIM6 Max	6.4687	-0.0387	15.6928	0.1292	1.9466	0.0146
Base	116	245	CIM6 Min	-7.5393	-0.0901	-11.2618	0.0197	-1.974	-0.0149
Base	116	245	CIM7 Max	4.1181	-0.0265	11.1287	0.2485	1.2553	0.0432
Base	116	245	CIM7 Min	-5.1887	-0.1023	-6.6977	-0.0997	-1.2826	-0.0434
Base	117	79	CV	0.0008	-0.0286	0.085	0.0349	-0.0225	3.348E-05
Base	117	79	CM	0.5348	-0.1049	3.9356	0.128	-0.0824	0.0001
Base	117	79	CIM1	0.5357	-0.1335	4.0206	0.1629	-0.1049	0.0002
Base	117	79	CIM2 Max	9.0405	-0.0895	18.7725	0.2273	2.7585	0.0165
Base	117	79	CIM2 Min	-7.9708	-0.1203	-10.9013	0.0287	-2.9232	-0.0162
Base	117	79	CIM3 Max	5.9308	-0.0301	13.2699	0.3423	1.6745	0.0411
Base	117	79	CIM3 Min	-4.8611	-0.1797	-5.3988	-0.0863	-1.8392	-0.0408
Base	117	79	CIM4 Max	6.9147	-0.1148	15.127	0.2287	2.0314	0.0124
Base	117	79	CIM4 Min	-5.8438	-0.138	-7.1283	0.0797	-2.2299	-0.0121
Base	117	79	CIM5 Max	4.5824	-0.0703	11.0001	0.3149	1.2184	0.0309
Base	117	79	CIM5 Min	-3.5115	-0.1824	-3.0014	-0.0066	-1.4169	-0.0305
Base	117	79	CIM6 Max	8.8265	-0.0475	17.1982	0.1761	2.7914	0.0164
Base	117	79	CIM6 Min	-8.1847	-0.0784	-12.4756	-0.0225	-2.8903	-0.0163
Base	117	79	CIM7 Max	5.7168	0.0118	11.6957	0.2911	1.7075	0.041
Base	117	79	CIM7 Min	-5.075	-0.1377	-6.973	-0.1375	-1.8063	-0.0409
Base	118	93	CV	-0.0669	-0.0255	0.0761	0.0177	0.0035	1.864E-05
Base	118	93	CM	-0.7799	-0.0948	1.612	0.0658	0.0128	0.0001
Base	118	93	CIM1	-0.8468	-0.1203	1.6881	0.0835	0.0163	0.0001
Base	118	93	CIM2 Max	4.115	-0.049	10.8203	0.1373	0.7178	0.0237
Base	118	93	CIM2 Min	-5.6747	-0.1405	-7.5963	-0.0057	-0.6922	-0.0236
Base	118	93	CIM3 Max	2.8851	-0.0342	8.0527	0.178	0.4601	0.037
Base	118	93	CIM3 Min	-4.4448	-0.1554	-4.8287	-0.0465	-0.4345	-0.0369
Base	118	93	CIM4 Max	2.8411	-0.0796	8.5753	0.1326	0.5441	0.0178
Base	118	93	CIM4 Min	-4.5012	-0.1482	-5.2371	0.0255	-0.5133	-0.0177
Base	118	93	CIM5 Max	1.9187	-0.0685	6.4996	0.1632	0.3509	0.0278
Base	118	93	CIM5 Min	-3.5788	-0.1593	-3.1614	-0.0051	-0.3201	-0.0276
Base	118	93	CIM6 Max	4.4269	-0.0111	10.1755	0.1109	0.7126	0.0237
Base	118	93	CIM6 Min	-5.3628	-0.1026	-8.2411	-0.032	-0.6973	-0.0236
Base	118	93	CIM7 Max	3.197	0.0037	7.4079	0.1517	0.455	0.037
Base	118	93	CIM7 Min	-4.1329	-0.1175	-5.4735	-0.0728	-0.4397	-0.0369
Base	119	201	CV	0.0349	-0.035	0.0951	0.0373	-0.017	-2.973E-05
Base	119	201	CM	0.665	-0.1302	2.4957	0.1387	-0.063	-0.0001

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	119	201	CIM1	0.6999	-0.1651	2.5908	0.1759	-0.08	-0.0001
Base	119	201	CIM2 Max	4.9066	-0.0862	11.3609	0.2598	0.983	0.0251
Base	119	201	CIM2 Min	-3.5765	-0.1741	-6.3695	0.0175	-1.1089	-0.0253
Base	119	201	CIM3 Max	4.4565	-0.0522	9.7677	0.3206	0.6863	0.0376
Base	119	201	CIM3 Min	-3.1265	-0.2081	-4.7763	-0.0432	-0.8122	-0.0379
Base	119	201	CIM4 Max	3.8724	-0.1234	9.216	0.2575	0.7087	0.0188
Base	119	201	CIM4 Min	-2.49	-0.1894	-4.0819	0.0758	-0.8602	-0.019
Base	119	201	CIM5 Max	3.5348	-0.0979	8.0211	0.303	0.4862	0.0282
Base	119	201	CIM5 Min	-2.1525	-0.2149	-2.887	0.0302	-0.6377	-0.0284
Base	119	201	CIM6 Max	4.6406	-0.0341	10.3626	0.2044	1.0082	0.0251
Base	119	201	CIM6 Min	-3.8425	-0.1221	-7.3678	-0.0379	-1.0837	-0.0253
Base	119	201	CIM7 Max	4.1905	-0.0002	8.7694	0.2651	0.7115	0.0377
Base	119	201	CIM7 Min	-3.3925	-0.156	-5.7746	-0.0987	-0.787	-0.0378
Base	121	196	CV	0.0118	-0.0009	0.0291	0.0009	-0.0082	-4.811E-06
Base	121	196	CM	0.2626	-0.0034	0.9061	0.0035	-0.0303	-1.762E-05
Base	121	196	CIM1	0.2744	-0.0043	0.9352	0.0044	-0.0386	-2.243E-05
Base	121	196	CIM2 Max	1.93	0.0033	4.1521	0.0157	0.3423	0.002
Base	121	196	CIM2 Min	-1.4048	-0.0101	-2.3399	-0.0088	-0.4029	-0.002
Base	121	196	CIM3 Max	2.5423	0.0066	4.9211	0.0219	0.3424	0.0029
Base	121	196	CIM3 Min	-2.0171	-0.0133	-3.1089	-0.015	-0.4031	-0.003
Base	121	196	CIM4 Max	1.522	0.001	3.3624	0.0133	0.2429	0.0015
Base	121	196	CIM4 Min	-0.9791	-0.0091	-1.5066	-0.005	-0.316	-0.0015
Base	121	196	CIM5 Max	1.9812	0.0034	3.9392	0.018	0.243	0.0022
Base	121	196	CIM5 Min	-1.4383	-0.0115	-2.0833	-0.0097	-0.3161	-0.0022
Base	121	196	CIM6 Max	1.825	0.0047	3.7897	0.0143	0.3544	0.002
Base	121	196	CIM6 Min	-1.5099	-0.0087	-2.7024	-0.0102	-0.3908	-0.002
Base	121	196	CIM7 Max	2.4373	0.0079	4.5587	0.0206	0.3545	0.0029
Base	121	196	CIM7 Min	-2.1222	-0.012	-3.4713	-0.0164	-0.3909	-0.003
Base	128	209	CV	-0.0006	-0.0378	0.0626	0.0023	-0.0009	-0.0001
Base	128	209	CM	-0.0024	-0.6812	1.8038	0.0088	-0.0037	-0.0005
Base	128	209	CIM1	-0.0029	-0.7191	1.8664	0.0111	-0.0047	-0.0007
Base	128	209	CIM2 Max	0.0345	3.1167	9.2498	0.6144	0.0924	0.0311
Base	128	209	CIM2 Min	-0.0393	-4.4791	-5.6423	-0.5968	-0.0999	-0.0321
Base	128	209	CIM3 Max	0.0595	2.9135	9.8376	0.7358	0.0766	0.0262
Base	128	209	CIM3 Min	-0.0642	-4.2759	-6.23	-0.7182	-0.084	-0.0273
Base	128	209	CIM4 Max	0.0249	2.1388	7.4353	0.4647	0.0677	0.023
Base	128	209	CIM4 Min	-0.0305	-3.558	-3.7338	-0.4437	-0.0766	-0.0243
Base	128	209	CIM5 Max	0.0436	1.9864	7.8761	0.5558	0.0558	0.0194
Base	128	209	CIM5 Min	-0.0492	-3.4056	-4.1746	-0.5347	-0.0647	-0.0207
Base	128	209	CIM6 Max	0.0355	3.3892	8.5283	0.6109	0.0939	0.0313
Base	128	209	CIM6 Min	-0.0383	-4.2066	-6.3638	-0.6003	-0.0984	-0.0319
Base	128	209	CIM7 Max	0.0604	3.1859	9.1161	0.7323	0.078	0.0264
Base	128	209	CIM7 Min	-0.0633	-4.0034	-6.9516	-0.7217	-0.0825	-0.027
Base	30	56	CV	-0.0291	-0.0005	0.0333	0.0001	-0.0011	0.0001
Base	30	56	CM	-0.652	-0.0022	0.9332	0.0003	-0.0041	0.0004
Base	30	56	CIM1	-0.6811	-0.0027	0.9666	0.0004	-0.0052	0.0004
Base	30	56	CIM2 Max	-0.4335	0.0336	1.7615	0.0391	0.0443	0.0349
Base	30	56	CIM2 Min	-0.8705	-0.038	0.105	-0.0385	-0.0525	-0.0342
Base	30	56	CIM3 Max	-0.4754	0.0643	1.7087	0.0588	0.0449	0.0523
Base	30	56	CIM3 Min	-0.8285	-0.0687	0.1578	-0.0582	-0.0531	-0.0516

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	30	56	CIM4 Max	-0.51	0.0242	1.5795	0.0295	0.0314	0.0263
Base	30	56	CIM4 Min	-0.8377	-0.0295	0.3371	-0.0287	-0.0412	-0.0255
Base	30	56	CIM5 Max	-0.5414	0.0473	1.5398	0.0442	0.0318	0.0394
Base	30	56	CIM5 Min	-0.8063	-0.0525	0.3767	-0.0435	-0.0416	-0.0385
Base	30	56	CIM6 Max	-0.1727	0.0345	1.3882	0.039	0.046	0.0347
Base	30	56	CIM6 Min	-0.6097	-0.0371	-0.2683	-0.0386	-0.0509	-0.0343
Base	30	56	CIM7 Max	-0.2146	0.0652	1.3354	0.0587	0.0465	0.0522
Base	30	56	CIM7 Min	-0.5678	-0.0678	-0.2155	-0.0583	-0.0514	-0.0517
Base	33	70	CV	0.0234	-0.0002	0.0063	0.001	-0.0011	-0.0001
Base	33	70	CM	0.6297	-0.0009	0.8292	0.0042	-0.0041	-0.0003
Base	33	70	CIM1	0.653	-0.0011	0.8355	0.0052	-0.0052	-0.0004
Base	33	70	CIM2 Max	0.7321	0.0064	1.515	0.0725	0.0444	0.033
Base	33	70	CIM2 Min	0.5272	-0.0082	0.1435	-0.0641	-0.0527	-0.0336
Base	33	70	CIM3 Max	0.7882	0.0235	1.5759	0.1076	0.045	0.0492
Base	33	70	CIM3 Min	0.4711	-0.0252	0.0825	-0.0991	-0.0532	-0.0498
Base	33	70	CIM4 Max	0.724	0.0044	1.3482	0.0562	0.0315	0.0246
Base	33	70	CIM4 Min	0.5703	-0.0065	0.3196	-0.0463	-0.0413	-0.0254
Base	33	70	CIM5 Max	0.7661	0.0172	1.3939	0.0825	0.0319	0.0367
Base	33	70	CIM5 Min	0.5283	-0.0193	0.2739	-0.0725	-0.0417	-0.0375
Base	33	70	CIM6 Max	0.4803	0.0068	1.1833	0.0708	0.0461	0.0331
Base	33	70	CIM6 Min	0.2753	-0.0078	-0.1882	-0.0658	-0.051	-0.0335
Base	33	70	CIM7 Max	0.5363	0.0238	1.2442	0.1059	0.0466	0.0493
Base	33	70	CIM7 Min	0.2193	-0.0249	-0.2492	-0.1008	-0.0516	-0.0497
Base	35	96	CV	-0.0389	-0.0001	0.035	0.0002	-0.0007	0.0001
Base	35	96	CM	-0.6814	-0.0005	0.8507	0.0007	-0.0025	0.0003
Base	35	96	CIM1	-0.7203	-0.0006	0.8857	0.0009	-0.0032	0.0003
Base	35	96	CIM2 Max	2.0161	0.0264	4.904	0.0591	0.1889	0.0315
Base	35	96	CIM2 Min	-3.379	-0.0274	-3.2026	-0.0576	-0.1938	-0.031
Base	35	96	CIM3 Max	1.752	0.052	4.6013	0.0891	0.1938	0.0459
Base	35	96	CIM3 Min	-3.1149	-0.0531	-2.8999	-0.0876	-0.1988	-0.0453
Base	35	96	CIM4 Max	1.3125	0.0196	3.9169	0.0447	0.1405	0.0238
Base	35	96	CIM4 Min	-2.7338	-0.0208	-2.163	-0.0429	-0.1465	-0.0231
Base	35	96	CIM5 Max	1.1145	0.0388	3.6899	0.0672	0.1442	0.0345
Base	35	96	CIM5 Min	-2.5357	-0.04	-1.9359	-0.0654	-0.1502	-0.0339
Base	35	96	CIM6 Max	2.2887	0.0266	4.5637	0.0588	0.1899	0.0314
Base	35	96	CIM6 Min	-3.1064	-0.0272	-3.5428	-0.0579	-0.1928	-0.0311
Base	35	96	CIM7 Max	2.0246	0.0522	4.261	0.0888	0.1948	0.0458
Base	35	96	CIM7 Min	-2.8423	-0.0528	-3.2401	-0.0879	-0.1978	-0.0454
Base	39	109	CV	0.0172	-0.0005	0.0183	0.0007	-0.0021	-4.859E-05
Base	39	109	CM	0.6014	-0.0022	1.6747	0.0027	-0.0077	-0.0002
Base	39	109	CIM1	0.6186	-0.0027	1.6929	0.0034	-0.0098	-0.0002
Base	39	109	CIM2 Max	3.5759	0.0197	7.9463	0.0945	0.5442	0.0277
Base	39	109	CIM2 Min	-2.3732	-0.024	-4.5969	-0.0891	-0.5597	-0.028
Base	39	109	CIM3 Max	4.1988	0.0434	8.8578	0.1369	0.5755	0.0402
Base	39	109	CIM3 Min	-2.9961	-0.0477	-5.5085	-0.1315	-0.5909	-0.0405
Base	39	109	CIM4 Max	2.8452	0.0139	6.3921	0.0721	0.4046	0.0207
Base	39	109	CIM4 Min	-1.6166	-0.0189	-3.0153	-0.0657	-0.4233	-0.0211
Base	39	109	CIM5 Max	3.3124	0.0316	7.0757	0.1038	0.4281	0.03
Base	39	109	CIM5 Min	-2.0838	-0.0367	-3.699	-0.0974	-0.4467	-0.0305
Base	39	109	CIM6 Max	3.3354	0.0206	7.2764	0.0935	0.5473	0.0277

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	39	109	CIM6 Min	-2.6137	-0.0232	-5.2668	-0.0902	-0.5566	-0.028
Base	39	109	CIM7 Max	3.9583	0.0442	8.188	0.1358	0.5786	0.0402
Base	39	109	CIM7 Min	-3.2366	-0.0468	-6.1784	-0.1325	-0.5878	-0.0405
Base	41	85	CV	-0.0654	-0.0001	0.0964	1.826E-05	-0.0035	4.18E-05
Base	41	85	CM	-0.7864	-0.0003	0.8591	0.0001	-0.0138	0.0002
Base	41	85	CIM1	-0.8519	-0.0004	0.9555	0.0001	-0.0173	0.0002
Base	41	85	CIM2 Max	1.567	0.0206	2.8736	0.031	0.0456	0.027
Base	41	85	CIM2 Min	-3.1398	-0.0212	-1.1554	-0.0308	-0.0732	-0.0267
Base	41	85	CIM3 Max	2.5866	0.0389	3.3275	0.0423	0.0474	0.0394
Base	41	85	CIM3 Min	-4.1594	-0.0395	-1.6093	-0.0421	-0.075	-0.0391
Base	41	85	CIM4 Max	0.9295	0.0153	2.4422	0.0233	0.0281	0.0204
Base	41	85	CIM4 Min	-2.6006	-0.0161	-0.5795	-0.0231	-0.061	-0.02
Base	41	85	CIM5 Max	1.6942	0.029	2.7827	0.0318	0.0295	0.0296
Base	41	85	CIM5 Min	-3.3653	-0.0298	-0.92	-0.0316	-0.0623	-0.0293
Base	41	85	CIM6 Max	1.8815	0.0207	2.5299	0.031	0.0511	0.027
Base	41	85	CIM6 Min	-2.8253	-0.0211	-1.499	-0.0309	-0.0677	-0.0268
Base	41	85	CIM7 Max	2.9011	0.039	2.9839	0.0423	0.053	0.0393
Base	41	85	CIM7 Min	-3.8449	-0.0394	-1.953	-0.0422	-0.0695	-0.0392
Base	42	91	CV	0.0455	0.0001	-0.0457	3.374E-05	-0.0035	-3.671E-05
Base	42	91	CM	0.7086	0.0003	0.3039	0.0001	-0.0138	-0.0001
Base	42	91	CIM1	0.7542	0.0003	0.2582	0.0002	-0.0173	-0.0002
Base	42	91	CIM2 Max	2.8694	0.0044	1.3893	0.0194	0.0455	0.026
Base	42	91	CIM2 Min	-1.4521	-0.0039	-0.7814	-0.0191	-0.0731	-0.0263
Base	42	91	CIM3 Max	3.867	0.0342	1.5698	0.0283	0.0473	0.0384
Base	42	91	CIM3 Min	-2.4497	-0.0337	-0.9619	-0.0281	-0.0749	-0.0387
Base	42	91	CIM4 Max	2.3633	0.0034	1.0836	0.0146	0.0281	0.0195
Base	42	91	CIM4 Min	-0.8778	-0.0028	-0.5444	-0.0143	-0.0609	-0.0198
Base	42	91	CIM5 Max	3.1116	0.0258	1.219	0.0213	0.0294	0.0287
Base	42	91	CIM5 Min	-1.626	-0.0252	-0.6798	-0.021	-0.0623	-0.0291
Base	42	91	CIM6 Max	2.5859	0.0043	1.2677	0.0193	0.0511	0.0261
Base	42	91	CIM6 Min	-1.7355	-0.004	-0.903	-0.0192	-0.0676	-0.0263
Base	42	91	CIM7 Max	3.5836	0.0341	1.4482	0.0283	0.0529	0.0385
Base	42	91	CIM7 Min	-2.7332	-0.0338	-1.0835	-0.0281	-0.0694	-0.0386
Base	16	26	CV	-0.0612	-0.0141	0.1471	-0.0045	-0.0226	-0.0003
Base	16	26	CM	-0.7612	-0.6489	6.9679	-0.0141	-0.0853	-0.001
Base	16	26	CIM1	-0.8224	-0.663	7.115	-0.0186	-0.1079	-0.0012
Base	16	26	CIM2 Max	6.295	0.543	18.448	0.734	2.8207	0.041
Base	16	26	CIM2 Min	-7.8174	-1.8408	-4.5122	-0.7623	-2.9913	-0.0429
Base	16	26	CIM3 Max	8.0041	5.1834	34.6279	3.0598	2.6478	0.0395
Base	16	26	CIM3 Min	-9.5265	-6.4812	-20.6921	-3.088	-2.8184	-0.0415
Base	16	26	CIM4 Max	4.4851	0.2345	15.6883	0.5436	2.0773	0.0303
Base	16	26	CIM4 Min	-6.0992	-1.5534	-1.5318	-0.5786	-2.2817	-0.0326
Base	16	26	CIM5 Max	5.7669	3.7147	27.8232	2.2879	1.9476	0.0292
Base	16	26	CIM5 Min	-7.3811	-5.0337	-13.6668	-2.3229	-2.152	-0.0315
Base	16	26	CIM6 Max	6.5995	0.8026	15.6608	0.7397	2.8548	0.0413
Base	16	26	CIM6 Min	-7.5129	-1.5813	-7.2994	-0.7566	-2.9572	-0.0425
Base	16	26	CIM7 Max	8.3086	5.4429	31.8407	3.0654	2.6819	0.0399
Base	16	26	CIM7 Min	-9.2221	-6.2216	-23.4793	-3.0824	-2.7843	-0.0411
Base	102	185	CV	0.0635	-1.349E-05	0.0645	0.0001	0.0017	1.051E-05
Base	102	185	CM	0.5319	-0.0001	0.6726	0.0003	0.0066	4.005E-05

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	102	185	CIM1	0.5954	-0.0001	0.7371	0.0003	0.0083	0.0001
Base	102	185	CIM2 Max	1.3084	0.0013	2.1586	0.0019	0.0874	0.0018
Base	102	185	CIM2 Min	-0.2447	-0.0014	-0.8133	-0.0014	-0.0743	-0.0017
Base	102	185	CIM3 Max	1.689	0.0065	2.2146	0.0077	0.0714	0.0076
Base	102	185	CIM3 Min	-0.6252	-0.0066	-0.8694	-0.0072	-0.0582	-0.0075
Base	102	185	CIM4 Max	1.1619	0.0009	1.8355	0.0016	0.0685	0.0013
Base	102	185	CIM4 Min	-0.0029	-0.001	-0.3935	-0.001	-0.0527	-0.0012
Base	102	185	CIM5 Max	1.4473	0.0049	1.8775	0.0059	0.0565	0.0057
Base	102	185	CIM5 Min	-0.2883	-0.005	-0.4355	-0.0053	-0.0407	-0.0056
Base	102	185	CIM6 Max	1.0957	0.0013	1.8895	0.0018	0.0848	0.0017
Base	102	185	CIM6 Min	-0.4574	-0.0013	-1.0824	-0.0015	-0.0769	-0.0017
Base	102	185	CIM7 Max	1.4762	0.0065	1.9456	0.0076	0.0687	0.0075
Base	102	185	CIM7 Min	-0.838	-0.0066	-1.1384	-0.0073	-0.0608	-0.0075
Base	103	194	CV	-0.0279	0.046	0.0321	0.0026	0.0003	1.675E-05
Base	103	194	CM	-0.2569	0.4292	0.9798	0.0098	0.0011	0.0001
Base	103	194	CIM1	-0.2849	0.4752	1.012	0.0124	0.0013	0.0001
Base	103	194	CIM2 Max	0.2425	0.7044	1.417	0.0761	0.1212	0.0046
Base	103	194	CIM2 Min	-0.7563	0.1541	0.5427	-0.0565	-0.1191	-0.0045
Base	103	194	CIM3 Max	0.5945	0.6167	2.6222	0.134	0.1247	0.0058
Base	103	194	CIM3 Min	-1.1083	0.2418	-0.6625	-0.1143	-0.1225	-0.0057
Base	103	194	CIM4 Max	0.0967	0.6701	1.3318	0.0615	0.0913	0.0035
Base	103	194	CIM4 Min	-0.6524	0.2574	0.6761	-0.0379	-0.0888	-0.0033
Base	103	194	CIM5 Max	0.3607	0.6043	2.2357	0.1049	0.094	0.0044
Base	103	194	CIM5 Min	-0.9164	0.3231	-0.2278	-0.0813	-0.0914	-0.0042
Base	103	194	CIM6 Max	0.3453	0.5327	1.0251	0.0722	0.1207	0.0046
Base	103	194	CIM6 Min	-0.6536	-0.0176	0.1507	-0.0604	-0.1195	-0.0045
Base	103	194	CIM7 Max	0.6972	0.445	2.2303	0.1301	0.1242	0.0058
Base	103	194	CIM7 Min	-1.0055	0.0701	-1.0545	-0.1183	-0.123	-0.0057
Base	179	302	CV	-0.0541	0.0875	0.3976	-0.0171	-0.0406	0.0002
Base	179	302	CM	-0.2031	0.8599	9.6414	-0.0644	-0.1533	0.0009
Base	179	302	CIM1	-0.2572	0.9474	10.0389	-0.0815	-0.1939	0.0011
Base	179	302	CIM2 Max	11.5112	2.6133	19.7585	0.0463	5.5116	0.0355
Base	179	302	CIM2 Min	-11.9175	-0.8935	-0.4758	-0.1752	-5.8182	-0.0338
Base	179	302	CIM3 Max	10.1434	3.9531	34.6617	2.1036	4.4096	0.0269
Base	179	302	CIM3 Min	-10.5497	-2.2333	-15.379	-2.2325	-4.7162	-0.0252
Base	179	302	CIM4 Max	8.5421	2.2406	17.5274	0.0058	4.065	0.027
Base	179	302	CIM4 Min	-9.0294	-0.3895	2.3517	-0.1603	-4.4324	-0.025
Base	179	302	CIM5 Max	7.5162	3.2454	28.7048	1.5488	3.2384	0.0206
Base	179	302	CIM5 Min	-8.0036	-1.3943	-8.8257	-1.7033	-3.6059	-0.0185
Base	179	302	CIM6 Max	11.5925	2.2694	15.902	0.0721	5.5729	0.0352
Base	179	302	CIM6 Min	-11.8362	-1.2375	-4.3324	-0.1494	-5.7569	-0.0342
Base	179	302	CIM7 Max	10.2246	3.6091	30.8052	2.1294	4.4709	0.0266
Base	179	302	CIM7 Min	-10.4684	-2.5772	-19.2356	-2.2068	-4.6549	-0.0255
Base	181	303	CV	-0.0696	0.0634	0.0985	-0.0254	-0.012	-0.0002
Base	181	303	CM	-0.4242	-0.0963	2.2179	-0.0963	-0.0459	-0.0008
Base	181	303	CIM1	-0.4939	-0.0329	2.3164	-0.1217	-0.0579	-0.001
Base	181	303	CIM2 Max	0.6481	0.5083	6.7552	0.2694	0.3167	0.0306
Base	181	303	CIM2 Min	-1.4966	-0.7009	-2.3194	-0.4621	-0.4085	-0.0321
Base	181	303	CIM3 Max	1.5739	4.5458	8.6845	2.0343	1.0188	0.023
Base	181	303	CIM3 Min	-2.4224	-4.7385	-4.2487	-2.227	-1.1106	-0.0246

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	181	303	CIM4 Max	0.3278	0.4047	5.6947	0.1589	0.217	0.0226
Base	181	303	CIM4 Min	-1.2807	-0.5022	-1.1112	-0.3897	-0.3269	-0.0245
Base	181	303	CIM5 Max	1.0221	3.4328	7.1417	1.4826	0.7436	0.0169
Base	181	303	CIM5 Min	-1.975	-3.5304	-2.5582	-1.7134	-0.8535	-0.0188
Base	181	303	CIM6 Max	0.8178	0.5468	5.8681	0.3079	0.335	0.0309
Base	181	303	CIM6 Min	-1.3269	-0.6624	-3.2066	-0.4235	-0.3901	-0.0318
Base	181	303	CIM7 Max	1.7436	4.5843	7.7974	2.0729	1.0372	0.0234
Base	181	303	CIM7 Min	-2.2527	-4.6999	-5.1359	-2.1885	-1.0923	-0.0243
Base	192	318	CV	-0.0837	0.0045	0.1416	-0.013	-0.0151	-2.092E-05
Base	192	318	CM	-0.4101	-0.1721	2.2151	-0.051	-0.0574	-0.0001
Base	192	318	CIM1	-0.4937	-0.1676	2.3567	-0.064	-0.0725	-0.0001
Base	192	318	CIM2 Max	-0.153	0.5445	3.3321	0.3059	0.5193	0.0025
Base	192	318	CIM2 Min	-0.6672	-0.8886	1.0981	-0.4078	-0.6341	-0.0026
Base	192	318	CIM3 Max	2.4766	4.5979	14.0159	1.2495	1.3152	0.0032
Base	192	318	CIM3 Min	-3.2968	-4.942	-9.5857	-1.3514	-1.4301	-0.0034
Base	192	318	CIM4 Max	-0.28	0.3687	3.1591	0.2069	0.3638	0.0018
Base	192	318	CIM4 Min	-0.6657	-0.7061	1.4836	-0.3284	-0.5012	-0.002
Base	192	318	CIM5 Max	1.6922	3.4087	11.1719	0.9146	0.9607	0.0024
Base	192	318	CIM5 Min	-2.6378	-3.7462	-6.5293	-1.0361	-1.0982	-0.0026
Base	192	318	CIM6 Max	0.0111	0.6133	2.4461	0.3263	0.5422	0.0025
Base	192	318	CIM6 Min	-0.5032	-0.8198	0.2121	-0.3874	-0.6112	-0.0026
Base	192	318	CIM7 Max	2.6406	4.6667	13.1299	1.2699	1.3382	0.0032
Base	192	318	CIM7 Min	-3.1327	-4.8732	-10.4717	-1.331	-1.4071	-0.0033
Base	193	319	CV	0.0601	-0.0013	0.071	0.001	-0.0037	1.539E-05
Base	193	319	CM	0.4793	-0.0043	0.9504	0.003	-0.0137	0.0001
Base	193	319	CIM1	0.5394	-0.0056	1.0214	0.004	-0.0174	0.0001
Base	193	319	CIM2 Max	2.2285	-0.0026	4.4275	0.0045	0.2569	0.0003
Base	193	319	CIM2 Min	-1.2699	-0.0059	-2.5267	0.0015	-0.2843	-0.0002
Base	193	319	CIM3 Max	3.4753	0.0097	5.9905	0.0274	0.3249	0.0079
Base	193	319	CIM3 Min	-2.5166	-0.0183	-4.0897	-0.0214	-0.3524	-0.0078
Base	193	319	CIM4 Max	1.8363	-0.0041	3.6115	0.0048	0.1865	0.0002
Base	193	319	CIM4 Min	-0.7875	-0.0065	-1.6042	0.0026	-0.2194	-0.0001
Base	193	319	CIM5 Max	2.7714	0.0052	4.7837	0.0221	0.2375	0.006
Base	193	319	CIM5 Min	-1.7225	-0.0158	-2.7764	-0.0146	-0.2705	-0.0058
Base	193	319	CIM6 Max	2.0368	-0.0009	4.0473	0.0033	0.2624	0.0003
Base	193	319	CIM6 Min	-1.4616	-0.0042	-2.9069	0.0003	-0.2788	-0.0002
Base	193	319	CIM7 Max	3.2835	0.0114	5.6103	0.0262	0.3304	0.0079
Base	193	319	CIM7 Min	-2.7083	-0.0166	-4.4699	-0.0226	-0.3469	-0.0078
Base	196	188	CV	0.118	-0.0112	0.2169	0.0356	0.008	0.0001
Base	196	188	CM	0.7604	-0.0418	2.4115	0.1324	0.0301	0.0004
Base	196	188	CIM1	0.8784	-0.0531	2.6285	0.168	0.0381	0.0005
Base	196	188	CIM2 Max	1.5227	-0.0337	3.8075	0.1469	0.3941	0.0044
Base	196	188	CIM2 Min	-0.0018	-0.05	1.0156	0.118	-0.334	-0.0036
Base	196	188	CIM3 Max	1.2665	0.0188	3.2907	0.3196	0.2859	0.063
Base	196	188	CIM3 Min	0.2544	-0.1024	1.5324	-0.0547	-0.2258	-0.0621
Base	196	188	CIM4 Max	1.4206	-0.0441	3.6212	0.17	0.3091	0.0035
Base	196	188	CIM4 Min	0.2772	-0.0564	1.5273	0.1483	-0.2369	-0.0025
Base	196	188	CIM5 Max	1.2285	-0.0048	3.2336	0.2995	0.228	0.0474
Base	196	188	CIM5 Min	0.4694	-0.0957	1.9149	0.0187	-0.1558	-0.0464
Base	196	188	CIM6 Max	1.2185	-0.0169	2.8429	0.0939	0.3821	0.0043

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	196	188	CIM6 Min	-0.306	-0.0332	0.051	0.065	-0.346	-0.0037
Base	196	188	CIM7 Max	0.9623	0.0355	2.326	0.2667	0.2739	0.0628
Base	196	188	CIM7 Min	-0.0498	-0.0857	0.5678	-0.1077	-0.2378	-0.0623
Base	198	332	CV	0.0002	-0.1381	0.1715	0.0067	-0.0002	-0.0002
Base	198	332	CM	0.0007	-1.0467	1.2744	0.0246	-0.0008	-0.0007
Base	198	332	CIM1	0.0008	-1.1848	1.4459	0.0313	-0.001	-0.0008
Base	198	332	CIM2 Max	0.0119	0.0354	1.436	0.0626	0.0293	0.0316
Base	198	332	CIM2 Min	-0.0106	-2.1288	1.1129	-0.0135	-0.031	-0.0329
Base	198	332	CIM3 Max	0.0358	0.7121	2.3236	0.16	0.018	0.0195
Base	198	332	CIM3 Min	-0.0345	-2.8054	0.2253	-0.1108	-0.0196	-0.0208
Base	198	332	CIM4 Max	0.0092	-0.3387	1.5242	0.0581	0.0216	0.0234
Base	198	332	CIM4 Min	-0.0076	-1.9618	1.2819	0.0011	-0.0236	-0.025
Base	198	332	CIM5 Max	0.0272	0.1688	2.1899	0.1311	0.0132	0.0143
Base	198	332	CIM5 Min	-0.0256	-2.4693	0.6161	-0.0719	-0.0151	-0.0159
Base	198	332	CIM6 Max	0.0116	0.4541	0.9262	0.0528	0.0297	0.0318
Base	198	332	CIM6 Min	-0.0108	-1.7101	0.6031	-0.0233	-0.0306	-0.0326
Base	198	332	CIM7 Max	0.0355	1.1307	1.8139	0.1501	0.0183	0.0197
Base	198	332	CIM7 Min	-0.0347	-2.3867	-0.2845	-0.1206	-0.0193	-0.0205
Base	204	333	CV	-2.987E-05	0.1003	-0.027	0.0066	0.0002	0.0002
Base	204	333	CM	-0.0001	0.908	0.5462	0.0243	0.0007	0.0007
Base	204	333	CIM1	-0.0001	1.0083	0.5193	0.0309	0.0009	0.0009
Base	204	333	CIM2 Max	0.0142	2.2034	1.8474	0.0624	0.0249	0.0331
Base	204	333	CIM2 Min	-0.0144	-0.3874	-0.7549	-0.0137	-0.0235	-0.0318
Base	204	333	CIM3 Max	0.0337	3.3478	4.0691	0.1595	0.0154	0.0202
Base	204	333	CIM3 Min	-0.0339	-1.5318	-2.9766	-0.1108	-0.014	-0.0189
Base	204	333	CIM4 Max	0.0106	1.9548	1.5019	0.0578	0.019	0.0252
Base	204	333	CIM4 Min	-0.0109	0.0117	-0.4498	0.0007	-0.0173	-0.0235
Base	204	333	CIM5 Max	0.0252	2.8131	3.1681	0.1306	0.0119	0.0155
Base	204	333	CIM5 Min	-0.0255	-0.8466	-2.1161	-0.0721	-0.0102	-0.0138
Base	204	333	CIM6 Max	0.0143	1.8402	1.6289	0.0526	0.0247	0.0329
Base	204	333	CIM6 Min	-0.0144	-0.7506	-0.9734	-0.0235	-0.0238	-0.0321
Base	204	333	CIM7 Max	0.0337	2.9846	3.8506	0.1497	0.0151	0.0199
Base	204	333	CIM7 Min	-0.0339	-1.895	-3.1951	-0.1206	-0.0143	-0.0191
Base	210	187	CV	0.038	-0.0005	0.0292	-0.0046	0.0006	8.069E-06
Base	210	187	CM	0.3551	-0.0017	0.2427	-0.0171	0.0023	3.048E-05
Base	210	187	CIM1	0.3931	-0.0022	0.2719	-0.0216	0.0029	3.855E-05
Base	210	187	CIM2 Max	1.3375	-0.0011	1.2564	-0.0158	0.0267	0.0003
Base	210	187	CIM2 Min	-0.6273	-0.0023	-0.7709	-0.0183	-0.0222	-0.0002
Base	210	187	CIM3 Max	0.9367	0.0025	0.8935	-0.0002	0.0197	0.0044
Base	210	187	CIM3 Min	-0.2266	-0.0059	-0.408	-0.0339	-0.0151	-0.0043
Base	210	187	CIM4 Max	1.1204	-0.0016	1.0248	-0.0195	0.0211	0.0002
Base	210	187	CIM4 Min	-0.3532	-0.0025	-0.4956	-0.0215	-0.0156	-0.0001
Base	210	187	CIM5 Max	0.8198	0.0011	0.7527	-0.0079	0.0158	0.0033
Base	210	187	CIM5 Min	-0.0527	-0.0052	-0.2235	-0.0331	-0.0103	-0.0032
Base	210	187	CIM6 Max	1.1954	-0.0004	1.1593	-0.0089	0.0258	0.0003
Base	210	187	CIM6 Min	-0.7694	-0.0017	-0.868	-0.0115	-0.0231	-0.0002
Base	210	187	CIM7 Max	0.7947	0.0032	0.7964	0.0066	0.0188	0.0044
Base	210	187	CIM7 Min	-0.3686	-0.0052	-0.5051	-0.0271	-0.0161	-0.0043
Base	215	78	CV	2.652E-05	0.0574	0.0671	-0.0022	0.0003	0.0002
Base	215	78	CM	0.0001	0.7524	1.1863	-0.0084	0.0013	0.0008

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	215	78	CIM1	0.0002	0.8098	1.2534	-0.0106	0.0017	0.001
Base	215	78	CIM2 Max	0.0207	4.9477	8.4214	0.4249	0.0577	0.0347
Base	215	78	CIM2 Min	-0.0204	-3.4428	-6.0488	-0.4417	-0.055	-0.0331
Base	215	78	CIM3 Max	0.0389	6.5885	11.645	0.6328	0.0377	0.0235
Base	215	78	CIM3 Min	-0.0386	-5.0836	-9.2724	-0.6496	-0.035	-0.0219
Base	215	78	CIM4 Max	0.0156	3.9419	6.663	0.3149	0.0439	0.0264
Base	215	78	CIM4 Min	-0.0153	-2.351	-4.1897	-0.335	-0.0407	-0.0245
Base	215	78	CIM5 Max	0.0292	5.1725	9.0807	0.4709	0.0289	0.018
Base	215	78	CIM5 Min	-0.0289	-3.5815	-6.6074	-0.4909	-0.0257	-0.0161
Base	215	78	CIM6 Max	0.0206	4.6467	7.9469	0.4283	0.0572	0.0344
Base	215	78	CIM6 Min	-0.0205	-3.7438	-6.5234	-0.4383	-0.0556	-0.0334
Base	215	78	CIM7 Max	0.0388	6.2875	11.1705	0.6362	0.0372	0.0232
Base	215	78	CIM7 Min	-0.0387	-5.3846	-9.7469	-0.6462	-0.0356	-0.0222
Base	216	344	CV	-0.109	-0.0864	0.4769	0.0394	-0.0198	-0.0001
Base	216	344	CM	-0.7234	-0.8601	7.3616	0.1481	-0.0727	-0.0005
Base	216	344	CIM1	-0.8325	-0.9465	7.8385	0.1876	-0.0925	-0.0006
Base	216	344	CIM2 Max	-0.0037	4.232	17.7538	2.2851	1.3599	0.036
Base	216	344	CIM2 Min	-1.4432	-5.9522	-3.0306	-1.9888	-1.5053	-0.0369
Base	216	344	CIM3 Max	-0.0865	6.7156	21.8744	3.3212	0.8745	0.0414
Base	216	344	CIM3 Min	-1.3603	-8.4358	-7.1511	-3.0249	-1.0199	-0.0424
Base	216	344	CIM4 Max	-0.2654	2.8941	15.5134	1.7804	0.9869	0.0268
Base	216	344	CIM4 Min	-1.345	-4.744	-0.0748	-1.425	-1.162	-0.0279
Base	216	344	CIM5 Max	-0.3275	4.7568	18.6039	2.5575	0.6229	0.0308
Base	216	344	CIM5 Min	-1.2829	-6.6067	-3.1653	-2.2021	-0.798	-0.032
Base	216	344	CIM6 Max	0.2856	4.576	14.8092	2.2259	1.389	0.0362
Base	216	344	CIM6 Min	-1.1538	-5.6082	-5.9752	-2.0481	-1.4763	-0.0368
Base	216	344	CIM7 Max	0.2028	7.0596	18.9297	3.2619	0.9036	0.0416
Base	216	344	CIM7 Min	-1.071	-8.0918	-10.0958	-3.0841	-0.9908	-0.0422
Base	220	348	CV	-0.0391	-0.0004	0.0547	0.0002	-0.0016	4.213E-06
Base	220	348	CM	-0.3591	-0.0013	0.7188	0.0009	-0.0057	1.538E-05
Base	220	348	CIM1	-0.3982	-0.0017	0.7735	0.0011	-0.0072	1.959E-05
Base	220	348	CIM2 Max	1.5856	0.0044	4.1803	0.0076	0.2305	0.002
Base	220	348	CIM2 Min	-2.3037	-0.007	-2.7428	-0.0059	-0.2419	-0.0019
Base	220	348	CIM3 Max	1.1214	0.0065	3.0893	0.0105	0.1427	0.0028
Base	220	348	CIM3 Min	-1.8395	-0.0092	-1.6518	-0.0087	-0.154	-0.0028
Base	220	348	CIM4 Max	1.0701	0.0027	3.3559	0.0061	0.1703	0.0015
Base	220	348	CIM4 Min	-1.8469	-0.0059	-1.8364	-0.004	-0.184	-0.0014
Base	220	348	CIM5 Max	0.7219	0.0043	2.5377	0.0083	0.1044	0.0021
Base	220	348	CIM5 Min	-1.4987	-0.0075	-1.0182	-0.0061	-0.1181	-0.0021
Base	220	348	CIM6 Max	1.7292	0.0049	3.8928	0.0073	0.2328	0.0019
Base	220	348	CIM6 Min	-2.1601	-0.0065	-3.0303	-0.0062	-0.2396	-0.0019
Base	220	348	CIM7 Max	1.265	0.0071	2.8018	0.0101	0.145	0.0028
Base	220	348	CIM7 Min	-1.6959	-0.0086	-1.9393	-0.0091	-0.1518	-0.0028
Base	227	358	CV	-0.0174	-0.0013	0.0845	0.0014	0.0034	-8.894E-06
Base	227	358	CM	-0.281	-0.0047	1.3486	0.0052	0.0124	-3.355E-05
Base	227	358	CIM1	-0.2984	-0.006	1.4331	0.0066	0.0158	-4.245E-05
Base	227	358	CIM2 Max	1.6732	-0.0037	5.3462	0.0062	0.6058	0.0001
Base	227	358	CIM2 Min	-2.2351	-0.0056	-2.6489	0.0042	-0.581	-0.0002
Base	227	358	CIM3 Max	0.901	0.0133	3.7802	0.0395	0.3754	0.0046
Base	227	358	CIM3 Min	-1.463	-0.0227	-1.083	-0.0291	-0.3506	-0.0047

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	227	358	CIM4 Max	1.1716	-0.0049	4.4101	0.0071	0.46	0.0001
Base	227	358	CIM4 Min	-1.7596	-0.0064	-1.5862	0.0055	-0.4301	-0.0002
Base	227	358	CIM5 Max	0.5924	0.0079	3.2357	0.032	0.2872	0.0035
Base	227	358	CIM5 Min	-1.1805	-0.0191	-0.4117	-0.0194	-0.2573	-0.0035
Base	227	358	CIM6 Max	1.7856	-0.0018	4.8067	0.0041	0.6008	0.0001
Base	227	358	CIM6 Min	-2.1227	-0.0038	-3.1883	0.0021	-0.586	-0.0002
Base	227	358	CIM7 Max	1.0134	0.0152	3.2408	0.0374	0.3704	0.0046
Base	227	358	CIM7 Min	-1.3506	-0.0208	-1.6224	-0.0311	-0.3556	-0.0047
Base	230	364	CV	-0.0265	0.0011	0.1426	-0.0013	0.003	5.249E-06
Base	230	364	CM	-0.3121	0.005	1.6713	-0.0058	0.0118	1.925E-05
Base	230	364	CIM1	-0.3386	0.0061	1.8139	-0.0071	0.0148	2.45E-05
Base	230	364	CIM2 Max	2.3285	0.0106	6.7506	0.0059	0.7815	0.0021
Base	230	364	CIM2 Min	-2.9527	-0.0007	-3.4079	-0.0174	-0.758	-0.0021
Base	230	364	CIM3 Max	1.4782	0.0137	4.9584	0.0114	0.4845	0.0031
Base	230	364	CIM3 Min	-2.1024	-0.0038	-1.6158	-0.0229	-0.4609	-0.0031
Base	230	364	CIM4 Max	1.6484	0.01	5.5877	0.002	0.5914	0.0016
Base	230	364	CIM4 Min	-2.3124	0.0016	-2.0311	-0.0154	-0.5633	-0.0015
Base	230	364	CIM5 Max	1.0107	0.0124	4.2436	0.0061	0.3686	0.0023
Base	230	364	CIM5 Min	-1.6747	-0.0007	-0.687	-0.0196	-0.3405	-0.0023
Base	230	364	CIM6 Max	2.4533	0.0086	6.082	0.0082	0.7768	0.0021
Base	230	364	CIM6 Min	-2.8279	-0.0027	-4.0765	-0.0151	-0.7627	-0.0021
Base	230	364	CIM7 Max	1.603	0.0117	4.2899	0.0137	0.4798	0.0031
Base	230	364	CIM7 Min	-1.9776	-0.0057	-2.2843	-0.0206	-0.4656	-0.0031
Base	231	365	CV	0.0943	0.0263	0.3747	-0.0092	0.0104	-3.344E-06
Base	231	365	CM	0.5745	0.095	6.4047	-0.036	0.041	-1.214E-05
Base	231	365	CIM1	0.6688	0.1213	6.7794	-0.0452	0.0514	-1.548E-05
Base	231	365	CIM2 Max	1.8918	4.0247	13.2908	2.1344	1.0017	0.0018
Base	231	365	CIM2 Min	-0.7429	-3.8347	-0.4814	-2.2063	-0.9197	-0.0018
Base	231	365	CIM3 Max	1.3735	5.5667	15.8737	3.1742	0.6247	0.0026
Base	231	365	CIM3 Min	-0.2245	-5.3766	-3.0643	-3.2461	-0.5428	-0.0026
Base	231	365	CIM4 Max	1.6332	3.062	11.8503	1.5849	0.7693	0.0013
Base	231	365	CIM4 Min	-0.3428	-2.8325	1.5212	-1.6707	-0.6718	-0.0014
Base	231	365	CIM5 Max	1.2445	4.2185	13.7875	2.3647	0.4866	0.002
Base	231	365	CIM5 Min	0.046	-3.989	-0.416	-2.4505	-0.389	-0.002
Base	231	365	CIM6 Max	1.662	3.9867	10.729	2.1488	0.9853	0.0018
Base	231	365	CIM6 Min	-0.9727	-3.8727	-3.0433	-2.1919	-0.9361	-0.0018
Base	231	365	CIM7 Max	1.1437	5.5287	13.3118	3.1886	0.6083	0.0026
Base	231	365	CIM7 Min	-0.4543	-5.4146	-5.6262	-3.2318	-0.5592	-0.0026
Base	232	369	CV	-0.003	0.0222	0.1098	-0.0117	-0.0024	3.5E-05
Base	232	369	CM	-0.0121	0.4012	2.8085	-0.0407	-0.0091	0.0001
Base	232	369	CIM1	-0.0151	0.4233	2.9184	-0.0524	-0.0115	0.0002
Base	232	369	CIM2 Max	0.4549	2.4898	5.8331	0.4365	0.2515	0.007
Base	232	369	CIM2 Min	-0.4792	-1.6874	-0.2161	-0.5179	-0.2697	-0.0068
Base	232	369	CIM3 Max	0.9234	9.4746	20.3288	2.8613	0.3532	0.005
Base	232	369	CIM3 Min	-0.9477	-8.6722	-14.7117	-2.9428	-0.3713	-0.0047
Base	232	369	CIM4 Max	0.3359	1.9842	5.1594	0.3084	0.1846	0.0053
Base	232	369	CIM4 Min	-0.3647	-1.1486	0.6224	-0.4074	-0.2063	-0.005
Base	232	369	CIM5 Max	0.6873	7.2228	16.0311	2.127	0.2608	0.0038
Base	232	369	CIM5 Min	-0.716	-6.3872	-10.2493	-2.226	-0.2826	-0.0035
Base	232	369	CIM6 Max	0.4598	2.3293	4.7097	0.4528	0.2551	0.007

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	232	369	CIM6 Min	-0.4743	-1.8479	-1.3395	-0.5017	-0.266	-0.0068
Base	232	369	CIM7 Max	0.9283	9.3141	19.2054	2.8776	0.3568	0.0049
Base	232	369	CIM7 Min	-0.9428	-8.8327	-15.8351	-2.9265	-0.3677	-0.0048
Base	233	370	CV	-0.0378	-0.0259	0.0854	0.0012	-0.008	-2.88E-05
Base	233	370	CM	-0.1415	-0.425	5.7717	0.0065	-0.0288	-0.0001
Base	233	370	CIM1	-0.1792	-0.4509	5.8571	0.0077	-0.0368	-0.0001
Base	233	370	CIM2 Max	4.7988	0.6903	10.8767	0.5117	2.6362	0.0067
Base	233	370	CIM2 Min	-5.0817	-1.5402	0.6666	-0.4988	-2.6937	-0.0069
Base	233	370	CIM3 Max	4.2272	6.4889	21.6977	3.2739	2.4446	0.0065
Base	233	370	CIM3 Min	-4.5101	-7.3389	-10.1543	-3.2609	-2.5021	-0.0067
Base	233	370	CIM4 Max	3.5354	0.392	9.6645	0.3863	1.964	0.005
Base	233	370	CIM4 Min	-3.875	-1.2808	2.007	-0.3715	-2.0335	-0.0052
Base	233	370	CIM5 Max	3.1067	4.741	17.7803	2.4579	1.8203	0.0048
Base	233	370	CIM5 Min	-3.4463	-5.6298	-6.1088	-2.4431	-1.8898	-0.0051
Base	233	370	CIM6 Max	4.8554	0.8602	8.5681	0.5091	2.6477	0.0067
Base	233	370	CIM6 Min	-5.0251	-1.3702	-1.642	-0.5014	-2.6822	-0.0069
Base	233	370	CIM7 Max	4.2838	6.6589	19.389	3.2713	2.4561	0.0065
Base	233	370	CIM7 Min	-4.4535	-7.1689	-12.463	-3.2635	-2.4906	-0.0067
Base	234	371	CV	0.02	0.0415	0.1067	-0.0064	-0.0008	0.0002
Base	234	371	CM	0.3636	0.738	3.6909	-0.0227	-0.0026	0.0008
Base	234	371	CIM1	0.3836	0.7796	3.7975	-0.0291	-0.0034	0.0011
Base	234	371	CIM2 Max	0.9192	4.0846	8.5725	0.6948	0.2256	0.043
Base	234	371	CIM2 Min	-0.192	-2.6085	-1.1908	-0.7402	-0.2308	-0.0413
Base	234	371	CIM3 Max	3.0971	8.0388	18.6372	2.725	0.1449	0.0276
Base	234	371	CIM3 Min	-2.3699	-6.5628	-11.2555	-2.7704	-0.1501	-0.0259
Base	234	371	CIM4 Max	0.7953	3.2791	7.4321	0.5106	0.168	0.0326
Base	234	371	CIM4 Min	-0.0381	-1.7407	0.1096	-0.5656	-0.1744	-0.0306
Base	234	371	CIM5 Max	2.4287	6.2448	14.9806	2.0333	0.1075	0.0211
Base	234	371	CIM5 Min	-1.6715	-4.7064	-7.4389	-2.0883	-0.1138	-0.0191
Base	234	371	CIM6 Max	0.7738	3.7894	7.0961	0.7039	0.2267	0.0426
Base	234	371	CIM6 Min	-0.3375	-2.9037	-2.6671	-0.7311	-0.2298	-0.0416
Base	234	371	CIM7 Max	2.9517	7.7436	17.1608	2.7341	0.1459	0.0273
Base	234	371	CIM7 Min	-2.5153	-6.858	-12.7318	-2.7613	-0.1491	-0.0263
Base	238	184	CV	-0.0193	-8.897E-06	0.0069	-2.035E-05	0.0002	-1.178E-05
Base	238	184	CM	-0.36	-3.441E-05	0.3084	-0.0001	0.0008	-4.482E-05
Base	238	184	CIM1	-0.3793	-4.33E-05	0.3152	-0.0001	0.001	-0.0001
Base	238	184	CIM2 Max	0.4061	0.0021	1.508	0.002	0.0499	0.0015
Base	238	184	CIM2 Min	-1.126	-0.0022	-0.8913	-0.0022	-0.0483	-0.0016
Base	238	184	CIM3 Max	2.7315	0.0041	2.8415	0.0073	0.0622	0.0078
Base	238	184	CIM3 Min	-3.4515	-0.0042	-2.2248	-0.0075	-0.0606	-0.0079
Base	238	184	CIM4 Max	0.2001	0.0016	1.2132	0.0015	0.0378	0.0011
Base	238	184	CIM4 Min	-0.9489	-0.0017	-0.5862	-0.0017	-0.0359	-0.0012
Base	238	184	CIM5 Max	1.9442	0.0031	2.2134	0.0055	0.047	0.0059
Base	238	184	CIM5 Min	-2.6931	-0.0032	-1.5864	-0.0056	-0.0451	-0.006
Base	238	184	CIM6 Max	0.55	0.0021	1.3846	0.0021	0.0496	0.0015
Base	238	184	CIM6 Min	-0.982	-0.0022	-1.0146	-0.0022	-0.0486	-0.0016
Base	238	184	CIM7 Max	2.8755	0.0041	2.7182	0.0073	0.0619	0.0079
Base	238	184	CIM7 Min	-3.3075	-0.0042	-2.3481	-0.0074	-0.0609	-0.0079
Base	239	165	CV	-0.0302	0.0074	0.1085	-0.0086	-0.002	-2.086E-05
Base	239	165	CM	-0.4015	0.0258	1.86	-0.0299	-0.0078	-0.0001

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	239	165	CIM1	-0.4317	0.0333	1.9685	-0.0386	-0.0097	-0.0001
Base	239	165	CIM2 Max	2.0729	0.0286	6.6897	-0.0275	0.8578	0.0003
Base	239	165	CIM2 Min	-2.8759	0.0231	-2.9696	-0.0324	-0.8734	-0.0005
Base	239	165	CIM3 Max	1.0986	0.0472	4.747	0.0291	0.532	0.0109
Base	239	165	CIM3 Min	-1.9016	0.0045	-1.0269	-0.089	-0.5475	-0.011
Base	239	165	CIM4 Max	1.4317	0.0335	5.5637	-0.0346	0.6399	0.0002
Base	239	165	CIM4 Min	-2.2799	0.0294	-1.6809	-0.0383	-0.6584	-0.0004
Base	239	165	CIM5 Max	0.7009	0.0474	4.1066	0.0079	0.3956	0.0081
Base	239	165	CIM5 Min	-1.5492	0.0154	-0.2238	-0.0807	-0.4141	-0.0083
Base	239	165	CIM6 Max	2.2335	0.0182	5.9457	-0.0155	0.8609	0.0004
Base	239	165	CIM6 Min	-2.7153	0.0128	-3.7137	-0.0204	-0.8703	-0.0005
Base	239	165	CIM7 Max	1.2592	0.0369	4.0029	0.0411	0.5351	0.0109
Base	239	165	CIM7 Min	-1.741	-0.0059	-1.7709	-0.077	-0.5444	-0.011
Base	241	226	CV	0.0246	0.0028	0.0145	-0.0013	-0.002	1.987E-05
Base	241	226	CM	0.3823	0.0098	0.6611	-0.0044	-0.0074	0.0001
Base	241	226	CIM1	0.4069	0.0126	0.6756	-0.0057	-0.0094	0.0001
Base	241	226	CIM2 Max	1.5115	0.0119	3.129	-0.0014	0.185	0.0006
Base	241	226	CIM2 Min	-0.7469	0.0077	-1.8068	-0.0074	-0.1998	-0.0004
Base	241	226	CIM3 Max	3.7307	0.0279	5.835	0.0226	0.2749	0.0107
Base	241	226	CIM3 Min	-2.9662	-0.0083	-4.5128	-0.0314	-0.2898	-0.0105
Base	241	226	CIM4 Max	1.2476	0.0135	2.5229	-0.0031	0.1354	0.0005
Base	241	226	CIM4 Min	-0.4462	0.0103	-1.179	-0.0076	-0.1532	-0.0003
Base	241	226	CIM5 Max	2.912	0.0255	4.5524	0.0149	0.2029	0.008
Base	241	226	CIM5 Min	-2.1106	-0.0016	-3.2085	-0.0256	-0.2206	-0.0079
Base	241	226	CIM6 Max	1.3586	0.008	2.8645	0.0004	0.188	0.0005
Base	241	226	CIM6 Min	-0.8999	0.0038	-2.0712	-0.0056	-0.1969	-0.0005
Base	241	226	CIM7 Max	3.5778	0.024	5.5705	0.0244	0.2779	0.0106
Base	241	226	CIM7 Min	-3.1191	-0.0122	-4.7772	-0.0297	-0.2868	-0.0105
Base	243	231	CV	-0.0345	0.0003	0.0217	0.0037	-0.0004	-1.764E-05
Base	243	231	CM	-0.419	0.001	0.2296	0.0132	-0.0014	-0.0001
Base	243	231	CIM1	-0.4534	0.0012	0.2513	0.017	-0.0018	-0.0001
Base	243	231	CIM2 Max	0.1892	0.0029	1.8218	0.017	0.0397	0.0007
Base	243	231	CIM2 Min	-1.0271	-0.001	-1.3626	0.0094	-0.0424	-0.0008
Base	243	231	CIM3 Max	2.0089	0.004	1.8723	0.0156	0.0598	0.0097
Base	243	231	CIM3 Min	-2.8468	-0.0021	-1.4131	0.0108	-0.0626	-0.0099
Base	243	231	CIM4 Max	0.0113	0.0026	1.44	0.0189	0.0291	0.0005
Base	243	231	CIM4 Min	-0.9009	-0.0003	-0.9482	0.0132	-0.0325	-0.0007
Base	243	231	CIM5 Max	1.3761	0.0035	1.478	0.0178	0.0442	0.0073
Base	243	231	CIM5 Min	-2.2657	-0.0011	-0.9862	0.0142	-0.0476	-0.0074
Base	243	231	CIM6 Max	0.3567	0.0025	1.7299	0.0117	0.0402	0.0007
Base	243	231	CIM6 Min	-0.8595	-0.0014	-1.4544	0.0041	-0.0419	-0.0008
Base	243	231	CIM7 Max	2.1765	0.0036	1.7805	0.0103	0.0603	0.0098
Base	243	231	CIM7 Min	-2.6792	-0.0025	-1.505	0.0055	-0.062	-0.0098
Base	247	170	CV	0.0424	0.0063	0.0573	-0.0067	0.0025	1.609E-05
Base	247	170	CM	0.4527	0.0225	0.8129	-0.024	0.0094	0.0001
Base	247	170	CIM1	0.4951	0.0288	0.8701	-0.0307	0.012	0.0001
Base	247	170	CIM2 Max	0.6484	0.0239	1.7485	-0.021	0.0987	0.001
Base	247	170	CIM2 Min	0.257	0.0211	-0.1228	-0.0271	-0.0798	-0.0009
Base	247	170	CIM3 Max	0.6606	0.0381	1.5204	-0.0016	0.0706	0.0093
Base	247	170	CIM3 Min	0.2448	0.0068	0.1053	-0.0464	-0.0517	-0.0092

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	247	170	CIM4 Max	0.6313	0.0283	1.5575	-0.0268	0.0783	0.0008
Base	247	170	CIM4 Min	0.3377	0.0261	0.1541	-0.0313	-0.0556	-0.0007
Base	247	170	CIM5 Max	0.6404	0.0389	1.3865	-0.0123	0.0572	0.007
Base	247	170	CIM5 Min	0.3285	0.0155	0.3252	-0.0458	-0.0345	-0.0069
Base	247	170	CIM6 Max	0.4673	0.0149	1.4234	-0.0113	0.0949	0.001
Base	247	170	CIM6 Min	0.0759	0.0121	-0.4479	-0.0175	-0.0836	-0.0009
Base	247	170	CIM7 Max	0.4795	0.0292	1.1953	0.008	0.0668	0.0093
Base	247	170	CIM7 Min	0.0637	-0.0022	-0.2198	-0.0368	-0.0555	-0.0092
Base	249	171	CV	-0.0269	0.0055	0.0149	-0.0085	0.0026	-1.433E-05
Base	249	171	CM	-0.3953	0.0195	0.6553	-0.0306	0.0096	-0.0001
Base	249	171	CIM1	-0.4222	0.025	0.6702	-0.0392	0.0121	-0.0001
Base	249	171	CIM2 Max	-0.1797	0.0224	1.612	-0.0261	0.0988	0.0011
Base	249	171	CIM2 Min	-0.6108	0.0166	-0.3013	-0.0351	-0.0797	-0.0013
Base	249	171	CIM3 Max	-0.26	0.0263	1.2695	-0.0067	0.0711	0.0086
Base	249	171	CIM3 Min	-0.5305	0.0127	0.0411	-0.0546	-0.052	-0.0087
Base	249	171	CIM4 Max	-0.2538	0.0258	1.384	-0.0337	0.0785	0.0008
Base	249	171	CIM4 Min	-0.5771	0.0214	-0.051	-0.0404	-0.0555	-0.001
Base	249	171	CIM5 Max	-0.314	0.0287	1.1271	-0.0191	0.0577	0.0064
Base	249	171	CIM5 Min	-0.5169	0.0185	0.2058	-0.055	-0.0347	-0.0066
Base	249	171	CIM6 Max	-0.0216	0.0146	1.3498	-0.0139	0.095	0.0012
Base	249	171	CIM6 Min	-0.4527	0.0088	-0.5635	-0.0229	-0.0835	-0.0012
Base	249	171	CIM7 Max	-0.1019	0.0185	1.0074	0.0056	0.0673	0.0087
Base	249	171	CIM7 Min	-0.3724	0.0049	-0.221	-0.0423	-0.0558	-0.0087
Base	70	106	CV	0.0075	-0.0207	0.0983	0.0028	-0.0028	-1.355E-05
Base	70	106	CM	0.0286	-0.3289	3.4098	0.0108	-0.0102	-0.0001
Base	70	106	CIM1	0.0361	-0.3496	3.5081	0.0136	-0.013	-0.0001
Base	70	106	CIM2 Max	1.6225	1.5576	9.5116	0.7191	0.7181	0.0032
Base	70	106	CIM2 Min	-1.5653	-2.2155	-2.692	-0.6974	-0.7385	-0.0033
Base	70	106	CIM3 Max	1.4204	2.4946	12.4107	1.0759	0.7465	0.0031
Base	70	106	CIM3 Min	-1.3632	-3.1524	-5.5911	-1.0542	-0.7669	-0.0032
Base	70	106	CIM4 Max	1.2297	1.0704	8.0599	0.5441	0.5339	0.0023
Base	70	106	CIM4 Min	-1.1612	-1.7594	-1.0929	-0.5183	-0.5586	-0.0025
Base	70	106	CIM5 Max	1.0781	1.7732	10.2342	0.8117	0.5552	0.0023
Base	70	106	CIM5 Min	-1.0096	-2.4621	-3.2672	-0.7859	-0.5799	-0.0024
Base	70	106	CIM6 Max	1.611	1.6892	8.1477	0.7148	0.7222	0.0032
Base	70	106	CIM6 Min	-1.5768	-2.0839	-4.056	-0.7018	-0.7344	-0.0032
Base	70	106	CIM7 Max	1.4089	2.6262	11.0468	1.0716	0.7506	0.0031
Base	70	106	CIM7 Min	-1.3747	-3.0209	-6.9551	-1.0586	-0.7628	-0.0031
Base	92	122	CV	-0.0178	0.0003	0.0329	-0.0003	0.0039	8.533E-06
Base	92	122	CM	-0.3176	0.0011	0.9476	-0.001	0.0145	3.131E-05
Base	92	122	CIM1	-0.3355	0.0014	0.9805	-0.0013	0.0183	3.984E-05
Base	92	122	CIM2 Max	1.4277	0.0084	4.6209	0.0123	0.3811	0.0034
Base	92	122	CIM2 Min	-2.063	-0.0063	-2.7257	-0.0143	-0.3522	-0.0033
Base	92	122	CIM3 Max	1.2083	0.0136	4.1082	0.0194	0.3306	0.005
Base	92	122	CIM3 Min	-1.8436	-0.0114	-2.213	-0.0214	-0.3017	-0.0049
Base	92	122	CIM4 Max	0.978	0.0068	3.7273	0.0088	0.2924	0.0025
Base	92	122	CIM4 Min	-1.64	-0.0042	-1.7827	-0.0112	-0.2576	-0.0025
Base	92	122	CIM5 Max	0.8135	0.0107	3.3427	0.0141	0.2545	0.0037
Base	92	122	CIM5 Min	-1.4755	-0.0081	-1.3982	-0.0165	-0.2197	-0.0037
Base	92	122	CIM6 Max	1.5547	0.008	4.2419	0.0127	0.3753	0.0034

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	92	122	CIM6 Min	-1.9359	-0.0067	-3.1047	-0.0139	-0.358	-0.0033
Base	92	122	CIM7 Max	1.3354	0.0132	3.7291	0.0198	0.3248	0.0049
Base	92	122	CIM7 Min	-1.7166	-0.0119	-2.592	-0.021	-0.3075	-0.0049
Base	99	155	CV	-0.0002	-0.0326	0.0503	0.0009	-0.0005	-0.0001
Base	99	155	CM	-0.0024	-0.6626	1.7226	0.004	-0.0019	-0.0005
Base	99	155	CIM1	-0.0025	-0.6952	1.7729	0.0049	-0.0024	-0.0007
Base	99	155	CIM2 Max	0.014	1.8989	6.5505	0.3861	0.0848	0.031
Base	99	155	CIM2 Min	-0.0188	-3.2241	-3.1052	-0.3781	-0.0886	-0.0321
Base	99	155	CIM3 Max	0.0393	2.1408	7.8444	0.5335	0.0671	0.0261
Base	99	155	CIM3 Min	-0.0441	-3.466	-4.3992	-0.5255	-0.0709	-0.0272
Base	99	155	CIM4 Max	0.0098	1.2341	5.3812	0.2912	0.0628	0.023
Base	99	155	CIM4 Min	-0.0148	-2.6082	-1.8606	-0.2819	-0.0673	-0.0243
Base	99	155	CIM5 Max	0.0288	1.4155	6.3517	0.4018	0.0495	0.0193
Base	99	155	CIM5 Min	-0.0338	-2.7896	-2.831	-0.3925	-0.054	-0.0206
Base	99	155	CIM6 Max	0.015	2.1639	5.8615	0.3845	0.0856	0.0313
Base	99	155	CIM6 Min	-0.0178	-2.9591	-3.7943	-0.3797	-0.0878	-0.0319
Base	99	155	CIM7 Max	0.0403	2.4059	7.1554	0.5319	0.0679	0.0263
Base	99	155	CIM7 Min	-0.0432	-3.201	-5.0882	-0.5271	-0.0701	-0.0269
Base	120	186	CV	-0.0001	-0.0186	0.0613	0.0014	-0.0003	-2.426E-05
Base	120	186	CM	-0.0006	-0.3784	1.7897	0.0058	-0.001	-0.0001
Base	120	186	CIM1	-0.0007	-0.3971	1.8509	0.0072	-0.0013	-0.0001
Base	120	186	CIM2 Max	0.0042	2.5367	6.5637	0.9461	0.0211	0.0056
Base	120	186	CIM2 Min	-0.0054	-3.2935	-2.9844	-0.9345	-0.0232	-0.0058
Base	120	186	CIM3 Max	0.0081	3.2951	8.019	1.2927	0.0178	0.0055
Base	120	186	CIM3 Min	-0.0093	-4.0519	-4.4396	-1.2811	-0.0199	-0.0056
Base	120	186	CIM4 Max	0.0029	1.7939	5.4162	0.712	0.0154	0.0042
Base	120	186	CIM4 Min	-0.0043	-2.5787	-1.7449	-0.6984	-0.0178	-0.0044
Base	120	186	CIM5 Max	0.0059	2.3628	6.5076	0.972	0.0129	0.0041
Base	120	186	CIM5 Min	-0.0072	-3.1475	-2.8363	-0.9583	-0.0154	-0.0043
Base	120	186	CIM6 Max	0.0045	2.688	5.8479	0.9438	0.0215	0.0057
Base	120	186	CIM6 Min	-0.0051	-3.1421	-3.7003	-0.9368	-0.0228	-0.0058
Base	120	186	CIM7 Max	0.0084	3.4465	7.3031	1.2904	0.0182	0.0055
Base	120	186	CIM7 Min	-0.009	-3.9006	-5.1555	-1.2834	-0.0195	-0.0056
Base	135	236	CV	-0.0071	0.0056	0.0383	-0.0166	-0.0078	-1.416E-05
Base	135	236	CM	-0.0265	-0.2457	1.312	-0.0651	-0.0289	-0.0001
Base	135	236	CIM1	-0.0336	-0.2401	1.3503	-0.0817	-0.0366	-0.0001
Base	135	236	CIM2 Max	-0.0217	0.9898	3.9118	0.2593	-0.0151	0.0039
Base	135	236	CIM2 Min	-0.0312	-1.4812	-1.2878	-0.3895	-0.0427	-0.004
Base	135	236	CIM3 Max	-0.0179	2.4407	7.0653	0.6632	-0.0135	0.0046
Base	135	236	CIM3 Min	-0.0351	-2.9321	-4.4413	-0.7934	-0.0443	-0.0047
Base	135	236	CIM4 Max	-0.0283	0.6852	3.2906	0.1657	-0.0244	0.0029
Base	135	236	CIM4 Min	-0.0354	-1.1681	-0.6092	-0.3209	-0.045	-0.003
Base	135	236	CIM5 Max	-0.0254	1.7733	5.6557	0.4687	-0.0231	0.0035
Base	135	236	CIM5 Min	-0.0383	-2.2563	-2.9743	-0.6238	-0.0463	-0.0036
Base	135	236	CIM6 Max	-0.0112	1.0881	3.387	0.2853	-0.0035	0.0039
Base	135	236	CIM6 Min	-0.0206	-1.3829	-1.8126	-0.3635	-0.0311	-0.004
Base	135	236	CIM7 Max	-0.0073	2.539	6.5405	0.6893	-0.0019	0.0047
Base	135	236	CIM7 Min	-0.0245	-2.8338	-4.9661	-0.7674	-0.0327	-0.0047
Base	137	235	CV	0.0091	0.0684	0.1812	-0.013	-0.0052	3.839E-06
Base	137	235	CM	0.167	0.3023	2.4831	-0.0509	-0.0193	1.459E-05

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	137	235	CIM1	0.1761	0.3707	2.6643	-0.0639	-0.0245	1.843E-05
Base	137	235	CIM2 Max	0.3114	0.4491	3.398	0.4044	0.07	0.0011
Base	137	235	CIM2 Min	0.0227	0.1555	1.5683	-0.5062	-0.1086	-0.0011
Base	137	235	CIM3 Max	0.4829	0.6055	3.6687	0.9367	0.1227	0.0023
Base	137	235	CIM3 Min	-0.1488	-0.0008	1.2976	-1.0385	-0.1612	-0.0023
Base	137	235	CIM4 Max	0.2821	0.4637	3.3051	0.2808	0.0438	0.0009
Base	137	235	CIM4 Min	0.0656	0.2435	1.9329	-0.4021	-0.0902	-0.0008
Base	137	235	CIM5 Max	0.4107	0.5809	3.5082	0.6801	0.0833	0.0017
Base	137	235	CIM5 Min	-0.063	0.1262	1.7298	-0.8014	-0.1297	-0.0017
Base	137	235	CIM6 Max	0.2446	0.3282	2.4047	0.4248	0.0777	0.0011
Base	137	235	CIM6 Min	-0.0441	0.0346	0.575	-0.4859	-0.1009	-0.0011
Base	137	235	CIM7 Max	0.4161	0.4845	2.6754	0.9571	0.1304	0.0023
Base	137	235	CIM7 Min	-0.2156	-0.1218	0.3043	-1.0182	-0.1535	-0.0023
Base	166	284	CV	1.45E-05	-0.3398	-0.2668	-0.0063	-1.064E-05	-2.495E-05
Base	166	284	CM	0.0001	-1.6805	-0.9456	-0.0249	-4.138E-05	-0.0001
Base	166	284	CIM1	0.0001	-2.0203	-1.2124	-0.0312	-0.0001	-0.0001
Base	166	284	CIM2 Max	0.0025	-1.555	-0.7379	-0.0214	0.0017	0.0067
Base	166	284	CIM2 Min	-0.0024	-1.806	-1.1534	-0.0284	-0.0018	-0.0069
Base	166	284	CIM3 Max	0.0078	-1.3019	-0.3113	-0.0141	0.0025	0.0078
Base	166	284	CIM3 Min	-0.0077	-2.0591	-1.58	-0.0357	-0.0025	-0.008
Base	166	284	CIM4 Max	0.0019	-1.8412	-0.9899	-0.027	0.0013	0.005
Base	166	284	CIM4 Min	-0.0018	-2.0295	-1.3015	-0.0322	-0.0014	-0.0052
Base	166	284	CIM5 Max	0.0059	-1.6514	-0.67	-0.0215	0.0018	0.0058
Base	166	284	CIM5 Min	-0.0057	-2.2193	-1.6215	-0.0377	-0.0019	-0.0061
Base	166	284	CIM6 Max	0.0025	-0.8828	-0.3597	-0.0114	0.0017	0.0068
Base	166	284	CIM6 Min	-0.0024	-1.1338	-0.7751	-0.0185	-0.0018	-0.0069
Base	166	284	CIM7 Max	0.0078	-0.6297	0.067	-0.0042	0.0025	0.0079
Base	166	284	CIM7 Min	-0.0077	-1.3869	-1.2017	-0.0257	-0.0025	-0.008
Base	171	288	CV	-2.021E-05	0.3752	0.3923	-0.0063	-5.614E-06	2.537E-05
Base	171	288	CM	-0.0001	1.8211	1.6714	-0.0249	-2.128E-05	0.0001
Base	171	288	CIM1	-0.0001	2.1964	2.0637	-0.0312	-2.69E-05	0.0001
Base	171	288	CIM2 Max	0.0024	1.927	1.8385	-0.0214	0.0016	0.0069
Base	171	288	CIM2 Min	-0.0026	1.7153	1.5043	-0.0284	-0.0017	-0.0067
Base	171	288	CIM3 Max	0.0069	2.1397	2.1833	-0.0141	0.0015	0.0079
Base	171	288	CIM3 Min	-0.007	1.5026	1.1594	-0.0357	-0.0016	-0.0077
Base	171	288	CIM4 Max	0.0018	2.1819	2.0909	-0.027	0.0012	0.0052
Base	171	288	CIM4 Min	-0.0019	2.0231	1.8403	-0.0322	-0.0013	-0.005
Base	171	288	CIM5 Max	0.0051	2.3415	2.3496	-0.0215	0.0011	0.0059
Base	171	288	CIM5 Min	-0.0053	1.8636	1.5817	-0.0377	-0.0012	-0.0057
Base	171	288	CIM6 Max	0.0024	1.1985	1.1699	-0.0114	0.0017	0.0069
Base	171	288	CIM6 Min	-0.0025	0.9868	0.8357	-0.0185	-0.0017	-0.0068
Base	171	288	CIM7 Max	0.0069	1.4112	1.5148	-0.0042	0.0015	0.0078
Base	171	288	CIM7 Min	-0.007	0.7741	0.4909	-0.0257	-0.0015	-0.0077
Base	173	306	CV	-9.523E-06	-0.0226	-0.0045	-0.0011	-0.0001	-2.85E-05
Base	173	306	CM	-4.55E-05	-0.4091	0.3196	-0.0046	-0.0003	-0.0001
Base	173	306	CIM1	-0.0001	-0.4317	0.3152	-0.0056	-0.0004	-0.0001
Base	173	306	CIM2 Max	0.0024	0.406	1.1793	0.0215	0.0039	0.0067
Base	173	306	CIM2 Min	-0.0024	-1.2241	-0.54	-0.0306	-0.0046	-0.0069
Base	173	306	CIM3 Max	0.0085	1.6995	2.679	0.0696	0.0057	0.0066
Base	173	306	CIM3 Min	-0.0086	-2.5176	-2.0397	-0.0787	-0.0064	-0.0068

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	173	306	CIM4 Max	0.0017	0.1853	0.961	0.0142	0.0028	0.005
Base	173	306	CIM4 Min	-0.0019	-1.0373	-0.3284	-0.0249	-0.0036	-0.0052
Base	173	306	CIM5 Max	0.0064	1.1554	2.0858	0.0502	0.0041	0.0049
Base	173	306	CIM5 Min	-0.0065	-2.0074	-1.4532	-0.0609	-0.005	-0.0051
Base	173	306	CIM6 Max	0.0024	0.5696	1.0515	0.0233	0.0041	0.0067
Base	173	306	CIM6 Min	-0.0024	-1.0605	-0.6679	-0.0288	-0.0045	-0.0069
Base	173	306	CIM7 Max	0.0086	1.8631	2.5511	0.0714	0.0059	0.0066
Base	173	306	CIM7 Min	-0.0086	-2.354	-2.1675	-0.0768	-0.0063	-0.0068
Base	176	305	CV	-0.0127	0.0057	0.0644	-0.0006	-0.0004	-1.268E-06
Base	176	305	CM	-0.2047	0.0639	1.3155	-0.0028	-0.0014	-5.428E-06
Base	176	305	CIM1	-0.2174	0.0696	1.3799	-0.0034	-0.0018	-6.696E-06
Base	176	305	CIM2 Max	-0.1305	0.6389	2.2013	0.121	0.0647	0.0018
Base	176	305	CIM2 Min	-0.2788	-0.5111	0.4297	-0.1266	-0.0674	-0.0018
Base	176	305	CIM3 Max	-0.1234	1.6524	2.9425	0.3074	0.1325	0.005
Base	176	305	CIM3 Min	-0.2859	-1.5247	-0.3115	-0.313	-0.1353	-0.005
Base	176	305	CIM4 Max	-0.1586	0.4994	2.0282	0.0896	0.0479	0.0013
Base	176	305	CIM4 Min	-0.2698	-0.3631	0.6995	-0.0961	-0.0512	-0.0014
Base	176	305	CIM5 Max	-0.1533	1.2596	2.5841	0.2294	0.0987	0.0038
Base	176	305	CIM5 Min	-0.2751	-1.1232	0.1436	-0.2359	-0.1021	-0.0038
Base	176	305	CIM6 Max	-0.0487	0.6133	1.6751	0.1221	0.0652	0.0018
Base	176	305	CIM6 Min	-0.1969	-0.5367	-0.0965	-0.1254	-0.0669	-0.0018
Base	176	305	CIM7 Max	-0.0416	1.6269	2.4163	0.3085	0.133	0.005
Base	176	305	CIM7 Min	-0.204	-1.5502	-0.8377	-0.3119	-0.1347	-0.005
Base	237	405	CV	0.0421	-0.0078	0.066	0.0113	0.0029	-0.0028
Base	237	405	CM	1.1104	-0.0327	2.8411	0.0475	0.0088	-0.0119
Base	237	405	CIM1	1.1524	-0.0405	2.9071	0.0588	0.0117	-0.0147
Base	237	405	CIM2 Max	1.3591	0.0251	5.708	0.3171	0.2404	0.1928
Base	237	405	CIM2 Min	0.8617	-0.0905	-0.0257	-0.2221	-0.2229	-0.2166
Base	237	405	CIM3 Max	1.7092	0.4551	7.5042	0.9667	0.3879	0.5292
Base	237	405	CIM3 Min	0.5115	-0.5205	-1.822	-0.8717	-0.3703	-0.553
Base	237	405	CIM4 Max	1.3284	0.0048	5.0407	0.2582	0.1847	0.1395
Base	237	405	CIM4 Min	0.9554	-0.0819	0.7405	-0.1462	-0.1628	-0.1675
Base	237	405	CIM5 Max	1.5911	0.3273	6.3879	0.7454	0.2953	0.3918
Base	237	405	CIM5 Min	0.6928	-0.4044	-0.6067	-0.6335	-0.2733	-0.4199
Base	237	405	CIM6 Max	0.9149	0.0382	4.5715	0.2981	0.2369	0.1975
Base	237	405	CIM6 Min	0.4175	-0.0774	-1.1622	-0.2411	-0.2264	-0.2118
Base	237	405	CIM7 Max	1.2651	0.4681	6.3678	0.9477	0.3843	0.534
Base	237	405	CIM7 Min	0.0674	-0.5074	-2.9584	-0.8907	-0.3738	-0.5483
Base	245	406	CV	-0.0237	-0.0055	0.0181	0.0048	0.0031	-0.0003
Base	245	406	CM	-1.0352	-0.0225	2.6379	0.0204	0.016	-0.0011
Base	245	406	CIM1	-1.0588	-0.028	2.656	0.0253	0.0191	-0.0014
Base	245	406	CIM2 Max	-0.3996	0.1794	5.4049	0.3162	0.2533	0.215
Base	245	406	CIM2 Min	-1.6707	-0.2244	-0.1292	-0.2753	-0.2213	-0.2172
Base	245	406	CIM3 Max	-0.1745	0.2735	7.145	0.8834	0.4002	0.5937
Base	245	406	CIM3 Min	-1.8959	-0.3186	-1.8693	-0.8425	-0.3682	-0.5959
Base	245	406	CIM4 Max	-0.5763	0.1248	4.7267	0.2459	0.1963	0.1608
Base	245	406	CIM4 Min	-1.5296	-0.178	0.5761	-0.1978	-0.1597	-0.1634
Base	245	406	CIM5 Max	-0.4074	0.1954	6.0318	0.6713	0.3065	0.4447
Base	245	406	CIM5 Min	-1.6984	-0.2487	-0.7289	-0.6231	-0.2699	-0.4474
Base	245	406	CIM6 Max	0.0144	0.1884	4.3498	0.308	0.2469	0.2155

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	245	406	CIM6 Min	-1.2566	-0.2154	-1.1844	-0.2835	-0.2277	-0.2168
Base	245	406	CIM7 Max	0.2396	0.2825	6.0899	0.8752	0.3938	0.5941
Base	245	406	CIM7 Min	-1.4818	-0.3096	-2.9245	-0.8507	-0.3746	-0.5954
Base	10	244	CV	-0.025	-0.1422	0.4989	0.0572	0.0136	-0.0002
Base	10	244	CM	-0.0994	-1.101	7.7674	0.2122	0.0462	-0.0008
Base	10	244	CIM1	-0.1244	-1.2432	8.2664	0.2695	0.0598	-0.001
Base	10	244	CIM2 Max	3.6034	-0.5967	8.8121	0.3641	3.2353	0.0383
Base	10	244	CIM2 Min	-3.8021	-1.6052	6.7228	0.0603	-3.1428	-0.0399
Base	10	244	CIM3 Max	2.2913	0.2437	10.6563	0.9015	2.0294	0.0236
Base	10	244	CIM3 Min	-2.49	-2.4456	4.8785	-0.477	-1.9369	-0.0252
Base	10	244	CIM4 Max	2.6589	-0.8294	8.9251	0.3691	2.4483	0.0284
Base	10	244	CIM4 Min	-2.8952	-1.5858	7.3582	0.1412	-2.3354	-0.0303
Base	10	244	CIM5 Max	1.6748	-0.1991	10.3083	0.7721	1.5438	0.0173
Base	10	244	CIM5 Min	-1.9111	-2.2161	5.975	-0.2618	-1.4309	-0.0193
Base	10	244	CIM6 Max	3.6431	-0.1563	5.7051	0.2793	3.2168	0.0386
Base	10	244	CIM6 Min	-3.7623	-1.1648	3.6158	-0.0246	-3.1613	-0.0396
Base	10	244	CIM7 Max	2.331	0.6841	7.5494	0.8166	2.0109	0.0239
Base	10	244	CIM7 Min	-2.4502	-2.0052	1.7716	-0.5619	-1.9554	-0.0249
Base	32	124	CV	0.0451	-0.004	0.1006	0.0016	0.0044	-6.65E-06
Base	32	124	CM	0.4194	-0.0176	2.4823	0.0063	0.0164	-2.428E-05
Base	32	124	CIM1	0.4645	-0.0217	2.5829	0.0078	0.0208	-3.093E-05
Base	32	124	CIM2 Max	0.5352	2.412	3.3124	1.0507	0.3969	0.003
Base	32	124	CIM2 Min	0.3036	-2.4473	1.6521	-1.0382	-0.364	-0.0031
Base	32	124	CIM3 Max	0.518	3.647	3.0971	1.5745	0.3432	0.0044
Base	32	124	CIM3 Min	0.3209	-3.6823	1.8674	-1.562	-0.3103	-0.0045
Base	32	124	CIM4 Max	0.5401	1.8016	3.1804	0.7908	0.3051	0.0023
Base	32	124	CIM4 Min	0.3664	-1.8429	1.9351	-0.7759	-0.2656	-0.0023
Base	32	124	CIM5 Max	0.5271	2.7278	3.0189	1.1836	0.2648	0.0033
Base	32	124	CIM5 Min	0.3793	-2.7692	2.0966	-1.1687	-0.2253	-0.0034
Base	32	124	CIM6 Max	0.3674	2.4191	2.3195	1.0482	0.3904	0.0031
Base	32	124	CIM6 Min	0.1359	-2.4403	0.6592	-1.0407	-0.3706	-0.0031
Base	32	124	CIM7 Max	0.3502	3.6541	2.1042	1.572	0.3366	0.0044
Base	32	124	CIM7 Min	0.1531	-3.6752	0.8745	-1.5645	-0.3169	-0.0045
Base	55	159	CV	0.0211	-0.0037	0.0033	0.0049	-0.0043	0.0001
Base	55	159	CM	0.7172	-0.0154	1.7073	0.0207	-0.0191	0.0002
Base	55	159	CIM1	0.7383	-0.0191	1.7106	0.0256	-0.0234	0.0003
Base	55	159	CIM2 Max	1.1216	0.0435	3.5383	0.1214	0.1403	0.0782
Base	55	159	CIM2 Min	0.3127	-0.0743	-0.1237	-0.08	-0.1784	-0.0777
Base	55	159	CIM3 Max	1.2648	0.1267	4.6864	0.2571	0.2392	0.1793
Base	55	159	CIM3 Min	0.1695	-0.1575	-1.2718	-0.2158	-0.2774	-0.1789
Base	55	159	CIM4 Max	1.0363	0.026	3.0831	0.0999	0.0972	0.0587
Base	55	159	CIM4 Min	0.4297	-0.0623	0.3365	-0.0512	-0.1418	-0.0582
Base	55	159	CIM5 Max	1.1437	0.0884	3.9441	0.2017	0.1714	0.1346
Base	55	159	CIM5 Min	0.3223	-0.1247	-0.5246	-0.153	-0.216	-0.1341
Base	55	159	CIM6 Max	0.8347	0.0496	2.8554	0.1131	0.1479	0.0781
Base	55	159	CIM6 Min	0.0259	-0.0681	-0.8067	-0.0883	-0.1708	-0.0778
Base	55	159	CIM7 Max	0.9779	0.1328	4.0035	0.2488	0.2469	0.1792
Base	55	159	CIM7 Min	-0.1173	-0.1513	-1.9548	-0.224	-0.2697	-0.179
Base	321	51	CV	0.016	-0.1427	0.6378	0.1162	0.0007	-0.0002
Base	321	51	CM	0.0556	-1.0996	12.7656	0.4327	0.0012	-0.0008

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	321	51	CIM1	0.0717	-1.2423	13.4034	0.5489	0.0019	-0.001
Base	321	51	CIM2 Max	4.6221	9.1172	26.3965	4.032	3.4793	0.0383
Base	321	51	CIM2 Min	-4.5108	-11.3163	-0.8654	-3.1665	-3.4768	-0.0399
Base	321	51	CIM3 Max	3.1581	16.669	34.2881	6.6548	2.1567	0.0236
Base	321	51	CIM3 Min	-3.0468	-18.8682	-8.757	-5.7893	-2.1542	-0.0252
Base	321	51	CIM4 Max	3.4925	6.4559	23.4671	3.2193	2.6103	0.0284
Base	321	51	CIM4 Min	-3.3572	-8.8692	3.0207	-2.1795	-2.6068	-0.0303
Base	321	51	CIM5 Max	2.3945	12.1198	29.3858	5.1864	1.6183	0.0173
Base	321	51	CIM5 Min	-2.2592	-14.5331	-2.8979	-4.1466	-1.6148	-0.0193
Base	321	51	CIM6 Max	4.5998	9.557	21.2902	3.8589	3.4788	0.0387
Base	321	51	CIM6 Min	-4.5331	-10.8765	-5.9716	-3.3396	-3.4773	-0.0396
Base	321	51	CIM7 Max	3.1359	17.1089	29.1818	6.4817	2.1562	0.0239
Base	321	51	CIM7 Min	-3.0691	-18.4283	-13.8632	-5.9624	-2.1547	-0.0249
Base	225	160	CV	-0.0449	-0.0079	0.0784	0.0101	-0.0041	0.0027
Base	225	160	CM	-0.8113	-0.0329	2.006	0.0423	-0.0144	0.0112
Base	225	160	CIM1	-0.8562	-0.0408	2.0844	0.0525	-0.0185	0.0139
Base	225	160	CIM2 Max	-0.6148	0.0814	3.9354	0.1541	0.1413	0.1312
Base	225	160	CIM2 Min	-1.0077	-0.1472	0.0765	-0.0694	-0.17	-0.1087
Base	225	160	CIM3 Max	-0.367	0.1365	5.1512	0.2757	0.2404	0.2491
Base	225	160	CIM3 Min	-1.2555	-0.2023	-1.1392	-0.191	-0.2692	-0.2266
Base	225	160	CIM4 Max	-0.6976	0.0469	3.5119	0.1337	0.0993	0.1032
Base	225	160	CIM4 Min	-0.9923	-0.1245	0.6177	-0.0339	-0.1342	-0.0767
Base	225	160	CIM5 Max	-0.5118	0.0882	4.4237	0.2249	0.1736	0.1916
Base	225	160	CIM5 Min	-1.1781	-0.1659	-0.2941	-0.1251	-0.2086	-0.1651
Base	225	160	CIM6 Max	-0.2903	0.0945	3.1331	0.1371	0.147	0.1267
Base	225	160	CIM6 Min	-0.6832	-0.134	-0.7259	-0.0863	-0.1643	-0.1132
Base	225	160	CIM7 Max	-0.0425	0.1497	4.3488	0.2587	0.2462	0.2446
Base	225	160	CIM7 Min	-0.931	-0.1892	-1.9416	-0.2079	-0.2634	-0.2311
Base	332	157	CV	-0.0474	-0.0486	0.0479	-0.0005	-0.0007	-0.0003
Base	332	157	CM	-0.5745	-0.591	0.9338	-0.0021	-0.0025	-0.001
Base	332	157	CIM1	-0.6218	-0.6396	0.9817	-0.0026	-0.0032	-0.0013
Base	332	157	CIM2 Max	0.7943	0.8287	3.8104	0.0723	0.0882	0.0263
Base	332	157	CIM2 Min	-1.9433	-2.0107	-1.9429	-0.0765	-0.0933	-0.0284
Base	332	157	CIM3 Max	1.0515	1.1275	4.2775	0.084	0.1047	0.0583
Base	332	157	CIM3 Min	-2.2005	-2.3095	-2.41	-0.0883	-0.1097	-0.0604
Base	332	157	CIM4 Max	0.4166	0.4373	3.1272	0.0533	0.065	0.0193
Base	332	157	CIM4 Min	-1.6366	-1.6922	-1.1878	-0.0583	-0.0711	-0.0218
Base	332	157	CIM5 Max	0.6095	0.6615	3.4775	0.0621	0.0773	0.0433
Base	332	157	CIM5 Min	-1.8295	-1.9163	-1.5381	-0.0671	-0.0835	-0.0458
Base	332	157	CIM6 Max	1.0241	1.0651	3.4369	0.0731	0.0892	0.0267
Base	332	157	CIM6 Min	-1.7135	-1.7743	-2.3164	-0.0757	-0.0923	-0.028
Base	332	157	CIM7 Max	1.2813	1.3639	3.904	0.0849	0.1057	0.0588
Base	332	157	CIM7 Min	-1.9707	-2.0731	-2.7835	-0.0874	-0.1087	-0.06
Base	333	166	CV	0.0609	0.063	0.031	-0.0005	-0.0002	0.0002
Base	333	166	CM	0.6024	0.6217	0.4209	-0.0016	-0.001	0.0008
Base	333	166	CIM1	0.6633	0.6847	0.4519	-0.0021	-0.0013	0.001
Base	333	166	CIM2 Max	2.3255	2.3822	2.3758	0.0286	0.0254	0.023
Base	333	166	CIM2 Min	-1.1207	-1.1389	-1.534	-0.0318	-0.0274	-0.0214
Base	333	166	CIM3 Max	3.2096	3.3077	3.0058	0.0395	0.0297	0.0449
Base	333	166	CIM3 Min	-2.0048	-2.0643	-2.164	-0.0427	-0.0318	-0.0433

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	333	166	CIM4 Max	1.9404	1.9893	1.9103	0.0207	0.0186	0.0176
Base	333	166	CIM4 Min	-0.6443	-0.6515	-1.022	-0.0246	-0.021	-0.0157
Base	333	166	CIM5 Max	2.6034	2.6835	2.3828	0.0289	0.0219	0.0341
Base	333	166	CIM5 Min	-1.3074	-1.3456	-1.4945	-0.0327	-0.0243	-0.0322
Base	333	166	CIM6 Max	2.0845	2.1335	2.2074	0.0292	0.0258	0.0227
Base	333	166	CIM6 Min	-1.3617	-1.3875	-1.7023	-0.0312	-0.027	-0.0218
Base	333	166	CIM7 Max	2.9686	3.059	2.8374	0.0401	0.0302	0.0446
Base	333	166	CIM7 Min	-2.2458	-2.313	-2.3323	-0.042	-0.0314	-0.0437
Base	334	203	CV	0.0244	-0.0276	0.0049	-0.0014	-0.0006	-0.0002
Base	334	203	CM	0.466	-0.5337	0.7365	-0.0053	-0.0021	-0.0009
Base	334	203	CIM1	0.4904	-0.5613	0.7414	-0.0066	-0.0027	-0.0011
Base	334	203	CIM2 Max	1.5894	0.7585	2.8626	0.0351	0.0666	0.0435
Base	334	203	CIM2 Min	-0.6574	-1.8259	-1.3896	-0.0456	-0.0708	-0.0452
Base	334	203	CIM3 Max	2.4853	1.8405	5.1748	0.1218	0.1196	0.0428
Base	334	203	CIM3 Min	-1.5533	-2.9079	-3.7019	-0.1323	-0.1239	-0.0445
Base	334	203	CIM4 Max	1.3268	0.4147	2.3347	0.024	0.049	0.0322
Base	334	203	CIM4 Min	-0.3583	-1.5236	-0.8544	-0.0366	-0.0541	-0.0343
Base	334	203	CIM5 Max	1.9987	1.2262	4.0689	0.089	0.0888	0.0317
Base	334	203	CIM5 Min	-1.0302	-2.3351	-2.5886	-0.1016	-0.0939	-0.0338
Base	334	203	CIM6 Max	1.403	0.9719	2.568	0.0372	0.0674	0.0438
Base	334	203	CIM6 Min	-0.8438	-1.6124	-1.6842	-0.0435	-0.07	-0.0448
Base	334	203	CIM7 Max	2.2989	2.0539	4.8802	0.1239	0.1205	0.0431
Base	334	203	CIM7 Min	-1.7397	-2.6944	-3.9964	-0.1302	-0.123	-0.0442
Base	335	207	CV	-0.0683	0.0785	0.0713	-0.0013	-0.0005	0.0002
Base	335	207	CM	-0.6083	0.6989	0.7067	-0.0047	-0.0016	0.0007
Base	335	207	CIM1	-0.6766	0.7774	0.778	-0.006	-0.0021	0.0008
Base	335	207	CIM2 Max	-0.1012	1.2982	1.4423	0.0106	0.0197	0.0358
Base	335	207	CIM2 Min	-1.1154	0.0996	-0.0288	-0.02	-0.023	-0.0345
Base	335	207	CIM3 Max	2.8898	4.6827	5.6151	0.0979	0.0722	0.0342
Base	335	207	CIM3 Min	-4.1064	-3.2849	-4.2017	-0.1073	-0.0755	-0.0328
Base	335	207	CIM4 Max	-0.2792	1.2072	1.3119	0.0058	0.014	0.0272
Base	335	207	CIM4 Min	-1.0398	0.3083	0.2085	-0.0172	-0.0181	-0.0256
Base	335	207	CIM5 Max	1.9641	3.7456	4.4415	0.0712	0.0534	0.0259
Base	335	207	CIM5 Min	-3.2831	-2.2301	-2.9211	-0.0826	-0.0574	-0.0243
Base	335	207	CIM6 Max	0.1421	1.0186	1.1596	0.0125	0.0204	0.0356
Base	335	207	CIM6 Min	-0.8721	-0.18	-0.3115	-0.0181	-0.0224	-0.0348
Base	335	207	CIM7 Max	3.1331	4.4031	5.3325	0.0998	0.0729	0.0339
Base	335	207	CIM7 Min	-3.8631	-3.5645	-4.4844	-0.1054	-0.0749	-0.0331
Base	341	249	CV	-0.0336	-0.0611	0.0824	0.0027	-0.0014	-2.472E-05
Base	341	249	CM	-0.2675	-0.486	0.7387	0.01	-0.0053	-0.0001
Base	341	249	CIM1	-0.3011	-0.5471	0.821	0.0126	-0.0067	-0.0001
Base	341	249	CIM2 Max	0.0728	0.1314	2.0913	0.0757	0.0343	0.0041
Base	341	249	CIM2 Min	-0.6079	-1.1035	-0.614	-0.0558	-0.0449	-0.0042
Base	341	249	CIM3 Max	0.0826	0.1428	2.7393	0.1264	0.0585	0.0032
Base	341	249	CIM3 Min	-0.6177	-1.1148	-1.262	-0.1064	-0.0691	-0.0034
Base	341	249	CIM4 Max	-0.0375	-0.0688	1.8149	0.0613	0.0234	0.003
Base	341	249	CIM4 Min	-0.548	-0.995	-0.2141	-0.0374	-0.036	-0.0032
Base	341	249	CIM5 Max	-0.0301	-0.0603	2.3009	0.0992	0.0415	0.0023
Base	341	249	CIM5 Min	-0.5553	-1.0035	-0.7	-0.0753	-0.0542	-0.0026
Base	341	249	CIM6 Max	0.1798	0.3258	1.7959	0.0717	0.0364	0.0041

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	341	249	CIM6 Min	-0.5009	-0.9091	-0.9095	-0.0598	-0.0428	-0.0042
Base	341	249	CIM7 Max	0.1896	0.3372	2.4438	0.1224	0.0606	0.0032
Base	341	249	CIM7 Min	-0.5107	-0.9204	-1.5574	-0.1104	-0.067	-0.0033
Base	342	251	CV	0.0111	0.0202	0.0231	0.0004	-0.0004	3.377E-05
Base	342	251	CM	0.1985	0.3608	0.8063	0.0015	-0.0014	0.0001
Base	342	251	CIM1	0.2095	0.3811	0.8294	0.0019	-0.0017	0.0002
Base	342	251	CIM2 Max	0.4221	0.7604	2.0684	0.1009	0.0605	0.0061
Base	342	251	CIM2 Min	-0.0251	-0.0388	-0.4558	-0.0979	-0.0633	-0.0058
Base	342	251	CIM3 Max	0.7792	1.4248	3.9119	0.2399	0.1297	0.0048
Base	342	251	CIM3 Min	-0.3823	-0.7031	-2.2993	-0.2369	-0.1325	-0.0045
Base	342	251	CIM4 Max	0.3745	0.6757	1.7702	0.0764	0.0448	0.0046
Base	342	251	CIM4 Min	0.0391	0.0763	-0.123	-0.0728	-0.0481	-0.0043
Base	342	251	CIM5 Max	0.6424	1.174	3.1528	0.1806	0.0966	0.0037
Base	342	251	CIM5 Min	-0.2288	-0.422	-1.5056	-0.177	-0.1	-0.0034
Base	342	251	CIM6 Max	0.3427	0.6161	1.7459	0.1003	0.0611	0.006
Base	342	251	CIM6 Min	-0.1045	-0.1831	-0.7783	-0.0985	-0.0628	-0.0059
Base	342	251	CIM7 Max	0.6999	1.2805	3.5894	0.2393	0.1302	0.0047
Base	342	251	CIM7 Min	-0.4617	-0.8475	-2.6218	-0.2375	-0.1319	-0.0046
Base	343	257	CV	-0.0084	0.015	0.0151	0.001	0.0008	1.499E-05
Base	343	257	CM	-0.1638	0.2917	0.672	0.004	0.003	0.0001
Base	343	257	CIM1	-0.1721	0.3067	0.6871	0.005	0.0038	0.0001
Base	343	257	CIM2 Max	0.3602	1.2267	2.7776	0.1458	0.0837	0.0038
Base	343	257	CIM2 Min	-0.6878	-0.6433	-1.4336	-0.1379	-0.0777	-0.0037
Base	343	257	CIM3 Max	0.9335	2.2433	4.8342	0.2689	0.1464	0.0044
Base	343	257	CIM3 Min	-1.2611	-1.6599	-3.4902	-0.261	-0.1404	-0.0043
Base	343	257	CIM4 Max	0.223	1.0042	2.2626	0.1111	0.0641	0.0029
Base	343	257	CIM4 Min	-0.5631	-0.3983	-0.8958	-0.1017	-0.057	-0.0028
Base	343	257	CIM5 Max	0.6529	1.7666	3.805	0.2034	0.1111	0.0033
Base	343	257	CIM5 Min	-0.993	-1.1608	-2.4383	-0.194	-0.104	-0.0032
Base	343	257	CIM6 Max	0.4257	1.11	2.5088	0.1443	0.0825	0.0038
Base	343	257	CIM6 Min	-0.6223	-0.76	-1.7024	-0.1395	-0.0789	-0.0037
Base	343	257	CIM7 Max	0.999	2.1266	4.5654	0.2673	0.1452	0.0043
Base	343	257	CIM7 Min	-1.1955	-1.7766	-3.759	-0.2626	-0.1416	-0.0043
Base	344	259	CV	0.0306	-0.0515	0.0629	0.0016	0.0009	-1.554E-05
Base	344	259	CM	0.2563	-0.4311	0.6492	0.006	0.0033	-0.0001
Base	344	259	CIM1	0.2869	-0.4826	0.7121	0.0076	0.0042	-0.0001
Base	344	259	CIM2 Max	0.6493	0.2288	2.055	0.0742	0.0468	0.0037
Base	344	259	CIM2 Min	-0.1367	-1.091	-0.7566	-0.0622	-0.0401	-0.0038
Base	344	259	CIM3 Max	0.5411	0.0449	2.0189	0.0884	0.0513	0.0041
Base	344	259	CIM3 Min	-0.0285	-0.907	-0.7205	-0.0764	-0.0447	-0.0042
Base	344	259	CIM4 Max	0.574	0.0252	1.7507	0.0584	0.0366	0.0028
Base	344	259	CIM4 Min	-0.0155	-0.9646	-0.358	-0.044	-0.0286	-0.0029
Base	344	259	CIM5 Max	0.4929	-0.1127	1.7237	0.069	0.0399	0.003
Base	344	259	CIM5 Min	0.0657	-0.8267	-0.3309	-0.0546	-0.032	-0.0032
Base	344	259	CIM6 Max	0.5468	0.4013	1.7953	0.0718	0.0455	0.0038
Base	344	259	CIM6 Min	-0.2392	-0.9185	-1.0162	-0.0646	-0.0415	-0.0038
Base	344	259	CIM7 Max	0.4386	0.2173	1.7592	0.086	0.05	0.0041
Base	344	259	CIM7 Min	-0.131	-0.7346	-0.9802	-0.0788	-0.046	-0.0042
Base	345	265	CV	0.0098	-0.0048	0.077	0.0062	0.0126	-1.318E-05
Base	345	265	CM	0.0388	-0.0206	0.9037	0.0266	0.0497	-4.92E-05

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	345	265	CIM1	0.0486	-0.0255	0.9807	0.0329	0.0622	-0.0001
Base	345	265	CIM2 Max	0.0574	-0.0117	0.9277	0.056	0.1001	0.0018
Base	345	265	CIM2 Min	0.0202	-0.0296	0.8797	-0.0027	-0.0008	-0.0019
Base	345	265	CIM3 Max	0.0563	-0.0055	0.9235	0.0769	0.0978	0.0055
Base	345	265	CIM3 Min	0.0213	-0.0357	0.8839	-0.0236	0.0015	-0.0056
Base	345	265	CIM4 Max	0.0601	-0.0176	0.9795	0.0533	0.0969	0.0013
Base	345	265	CIM4 Min	0.0322	-0.0309	0.9435	0.0093	0.0213	-0.0015
Base	345	265	CIM5 Max	0.0593	-0.0129	0.9763	0.069	0.0952	0.0041
Base	345	265	CIM5 Min	0.033	-0.0356	0.9466	-0.0064	0.023	-0.0042
Base	345	265	CIM6 Max	0.0419	-0.0034	0.5662	0.0453	0.0803	0.0018
Base	345	265	CIM6 Min	0.0047	-0.0213	0.5182	-0.0133	-0.0206	-0.0019
Base	345	265	CIM7 Max	0.0408	0.0027	0.562	0.0663	0.078	0.0056
Base	345	265	CIM7 Min	0.0058	-0.0275	0.5224	-0.0343	-0.0183	-0.0056
Base	346	268	CV	-2.9E-06	9.624E-07	0	-3.749E-06	-1.13E-05	-7.929E-07
Base	346	268	CM	-1.073E-05	3.707E-06	0.0534	-1.444E-05	-4.179E-05	-2.96E-06
Base	346	268	CIM1	-1.363E-05	4.67E-06	0.0534	-1.819E-05	-0.0001	-3.753E-06
Base	346	268	CIM2 Max	0.0007	0.0003	0.0534	0.0012	0.0025	0.0001
Base	346	268	CIM2 Min	-0.0007	-0.0003	0.0534	-0.0012	-0.0026	-0.0001
Base	346	268	CIM3 Max	0.0006	0.0009	0.0534	0.0035	0.0023	0.0003
Base	346	268	CIM3 Min	-0.0006	-0.0009	0.0534	-0.0036	-0.0024	-0.0003
Base	346	268	CIM4 Max	0.0005	0.0002	0.0534	0.0009	0.0019	0.0001
Base	346	268	CIM4 Min	-0.0005	-0.0002	0.0534	-0.0009	-0.002	-0.0001
Base	346	268	CIM5 Max	0.0004	0.0007	0.0534	0.0027	0.0017	0.0002
Base	346	268	CIM5 Min	-0.0005	-0.0007	0.0534	-0.0027	-0.0018	-0.0003
Base	346	268	CIM6 Max	0.0007	0.0003	0.0321	0.0012	0.0026	0.0001
Base	346	268	CIM6 Min	-0.0007	-0.0003	0.0321	-0.0012	-0.0026	-0.0001
Base	346	268	CIM7 Max	0.0006	0.0009	0.0321	0.0036	0.0024	0.0003
Base	346	268	CIM7 Min	-0.0006	-0.0009	0.0321	-0.0036	-0.0024	-0.0003
Base	347	271	CV	-2.9E-06	5.95E-07	0	-2.318E-06	-1.13E-05	-7.929E-07
Base	347	271	CM	-1.073E-05	2.336E-06	0.0534	-9.099E-06	-4.179E-05	-2.96E-06
Base	347	271	CIM1	-1.363E-05	2.931E-06	0.0534	-1.142E-05	-0.0001	-3.753E-06
Base	347	271	CIM2 Max	0.0007	0.0004	0.0534	0.0014	0.0025	0.0001
Base	347	271	CIM2 Min	-0.0007	-0.0004	0.0534	-0.0014	-0.0026	-0.0001
Base	347	271	CIM3 Max	0.0006	0.0008	0.0534	0.0033	0.0023	0.0003
Base	347	271	CIM3 Min	-0.0006	-0.0008	0.0534	-0.0033	-0.0024	-0.0003
Base	347	271	CIM4 Max	0.0005	0.0003	0.0534	0.001	0.0019	0.0001
Base	347	271	CIM4 Min	-0.0005	-0.0003	0.0534	-0.0011	-0.002	-0.0001
Base	347	271	CIM5 Max	0.0004	0.0006	0.0534	0.0024	0.0017	0.0002
Base	347	271	CIM5 Min	-0.0005	-0.0006	0.0534	-0.0025	-0.0018	-0.0003
Base	347	271	CIM6 Max	0.0007	0.0004	0.0321	0.0014	0.0026	0.0001
Base	347	271	CIM6 Min	-0.0007	-0.0004	0.0321	-0.0014	-0.0026	-0.0001
Base	347	271	CIM7 Max	0.0006	0.0008	0.0321	0.0033	0.0024	0.0003
Base	347	271	CIM7 Min	-0.0006	-0.0008	0.0321	-0.0033	-0.0024	-0.0003
Base	105	208	CV	-0.065	0.0257	0.1429	0.0025	-0.0172	0.0002
Base	105	208	CM	-0.7115	0.6354	4.6969	0.0094	-0.0662	0.0008
Base	105	208	CIM1	-0.7765	0.6611	4.8398	0.0119	-0.0834	0.0011
Base	105	208	CIM2 Max	5.6665	1.585	15.7821	0.7176	2.1208	0.0429
Base	105	208	CIM2 Min	-7.0896	-0.3143	-6.3883	-0.6988	-2.2531	-0.0413
Base	105	208	CIM3 Max	4.2535	1.3422	16.5168	0.8956	1.4312	0.0371
Base	105	208	CIM3 Min	-5.6765	-0.0714	-7.123	-0.8768	-1.5635	-0.0354

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	105	208	CIM4 Max	4.0233	1.3669	13.118	0.5424	1.5611	0.0326
Base	105	208	CIM4 Min	-5.5438	-0.0576	-3.5098	-0.5199	-1.7193	-0.0306
Base	105	208	CIM5 Max	2.9635	1.1848	13.669	0.6759	1.0439	0.0282
Base	105	208	CIM5 Min	-4.484	0.1245	-4.0608	-0.6534	-1.2021	-0.0262
Base	105	208	CIM6 Max	5.9511	1.3309	13.9034	0.7138	2.1473	0.0426
Base	105	208	CIM6 Min	-6.805	-0.5684	-8.2671	-0.7026	-2.2267	-0.0416
Base	105	208	CIM7 Max	4.5381	1.0881	14.638	0.8918	1.4577	0.0368
Base	105	208	CIM7 Min	-5.3919	-0.3256	-9.0017	-0.8806	-1.537	-0.0358
Base	106	214	CV	-0.0421	1.518E-05	0.0587	0.0002	-0.0166	-3.4E-05
Base	106	214	CM	0.0424	8.193E-06	3.4043	0.0007	-0.0604	-0.0001
Base	106	214	CIM1	0.0003	2.337E-05	3.463	0.0009	-0.077	-0.0002
Base	106	214	CIM2 Max	6.1387	0.0457	9.0816	0.1236	2.6871	0.0157
Base	106	214	CIM2 Min	-6.054	-0.0457	-2.273	-0.1221	-2.8079	-0.016
Base	106	214	CIM3 Max	3.9567	0.0669	9.6947	0.1799	1.8248	0.0228
Base	106	214	CIM3 Min	-3.872	-0.0669	-2.8861	-0.1784	-1.9456	-0.0231
Base	106	214	CIM4 Max	4.5831	0.0343	7.7062	0.093	1.9878	0.0117
Base	106	214	CIM4 Min	-4.5615	-0.0343	-0.8097	-0.0912	-2.1335	-0.012
Base	106	214	CIM5 Max	2.9466	0.0502	8.1661	0.1353	1.341	0.017
Base	106	214	CIM5 Min	-2.925	-0.0502	-1.2695	-0.1335	-1.4867	-0.0173
Base	106	214	CIM6 Max	6.1218	0.0457	7.7198	0.1233	2.7113	0.0158
Base	106	214	CIM6 Min	-6.0709	-0.0457	-3.6347	-0.1224	-2.7837	-0.0159
Base	106	214	CIM7 Max	3.9398	0.0669	8.333	0.1796	1.849	0.0229
Base	106	214	CIM7 Min	-3.8889	-0.0669	-4.2478	-0.1787	-1.9214	-0.023
Base	107	105	CV	0.0087	0.0004	-0.0251	0.0009	-0.0019	-5.795E-06
Base	107	105	CM	0.3031	0.0015	0.1903	0.0031	-0.0069	-2.096E-05
Base	107	105	CIM1	0.3118	0.0019	0.1652	0.004	-0.0087	-2.675E-05
Base	107	105	CIM2 Max	2.3884	0.0018	4.6848	0.0054	0.2083	0.0034
Base	107	105	CIM2 Min	-1.7823	0.0011	-4.3042	0.0008	-0.2221	-0.0035
Base	107	105	CIM3 Max	1.9129	0.0055	3.2509	0.0047	0.1409	0.005
Base	107	105	CIM3 Min	-1.3068	-0.0026	-2.8703	0.0015	-0.1546	-0.005
Base	107	105	CIM4 Max	1.8736	0.0021	3.5423	0.0055	0.1531	0.0026
Base	107	105	CIM4 Min	-1.2544	0.0015	-3.1994	0.002	-0.1697	-0.0026
Base	107	105	CIM5 Max	1.517	0.0048	2.4669	0.005	0.1025	0.0037
Base	107	105	CIM5 Min	-0.8978	-0.0013	-2.124	0.0026	-0.1191	-0.0038
Base	107	105	CIM6 Max	2.2672	0.0013	4.6087	0.0042	0.2111	0.0034
Base	107	105	CIM6 Min	-1.9035	0.0005	-4.3803	-0.0005	-0.2193	-0.0035
Base	107	105	CIM7 Max	1.7917	0.005	3.1748	0.0034	0.1436	0.005
Base	107	105	CIM7 Min	-1.428	-0.0032	-2.9464	0.0003	-0.1518	-0.005
Base	108	147	CV	-0.0172	2.148E-05	0.0433	0.001	-0.0007	4.963E-06
Base	108	147	CM	-0.3368	0.0001	0.2566	0.0035	-0.0028	1.785E-05
Base	108	147	CIM1	-0.354	0.0001	0.2999	0.0045	-0.0035	2.281E-05
Base	108	147	CIM2 Max	0.8617	0.002	3.0481	0.0039	0.0432	0.0033
Base	108	147	CIM2 Min	-1.5354	-0.0018	-2.535	0.003	-0.0488	-0.0033
Base	108	147	CIM3 Max	1.0627	0.0045	2.2798	0.0038	0.0315	0.0049
Base	108	147	CIM3 Min	-1.7364	-0.0044	-1.7667	0.0031	-0.0371	-0.0048
Base	108	147	CIM4 Max	0.5492	0.0015	2.3827	0.0046	0.0312	0.0025
Base	108	147	CIM4 Min	-1.2486	-0.0013	-1.8046	0.0039	-0.0378	-0.0025
Base	108	147	CIM5 Max	0.6999	0.0034	1.8065	0.0045	0.0224	0.0037
Base	108	147	CIM5 Min	-1.3994	-0.0032	-1.2284	0.004	-0.029	-0.0036
Base	108	147	CIM6 Max	0.9965	0.0019	2.9455	0.0025	0.0444	0.0033

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	108	147	CIM6 Min	-1.4006	-0.0018	-2.6376	0.0016	-0.0477	-0.0033
Base	108	147	CIM7 Max	1.1975	0.0045	2.1772	0.0024	0.0326	0.0049
Base	108	147	CIM7 Min	-1.6016	-0.0044	-1.8693	0.0018	-0.036	-0.0049
Base	109	149	CV	-0.0118	0.0099	0.0275	-0.0116	-0.0092	-8.667E-07
Base	109	149	CM	0.2265	0.036	1.6004	-0.0422	-0.0352	-2.557E-06
Base	109	149	CIM1	0.2147	0.0459	1.6279	-0.0537	-0.0444	-3.424E-06
Base	109	149	CIM2 Max	3.5656	0.047	7.7514	-0.0191	0.9793	0.0027
Base	109	149	CIM2 Min	-3.1127	0.0249	-4.5506	-0.0652	-1.0497	-0.0028
Base	109	149	CIM3 Max	2.8851	0.0542	6.3317	-0.0075	0.7001	0.0046
Base	109	149	CIM3 Min	-2.4322	0.0178	-3.1309	-0.0768	-0.7705	-0.0046
Base	109	149	CIM4 Max	2.722	0.0517	6.2343	-0.0335	0.7188	0.0021
Base	109	149	CIM4 Min	-2.2868	0.0351	-2.9922	-0.0682	-0.803	-0.0021
Base	109	149	CIM5 Max	2.2116	0.057	5.1695	-0.0248	0.5094	0.0034
Base	109	149	CIM5 Min	-1.7763	0.0297	-1.9275	-0.0769	-0.5936	-0.0034
Base	109	149	CIM6 Max	3.4751	0.0326	7.1112	-0.0022	0.9934	0.0027
Base	109	149	CIM6 Min	-3.2033	0.0105	-5.1908	-0.0484	-1.0356	-0.0028
Base	109	149	CIM7 Max	2.7945	0.0398	5.6916	0.0094	0.7142	0.0046
Base	109	149	CIM7 Min	-2.5227	0.0034	-3.7711	-0.06	-0.7564	-0.0046
Base	110	240	CV	-0.0677	0.0004	0.0805	-2.607E-05	-0.0024	0
Base	110	240	CM	-0.5299	0.0017	0.7978	-0.0001	-0.0086	-1.769E-06
Base	110	240	CIM1	-0.5976	0.0021	0.8783	-0.0001	-0.011	-2.061E-06
Base	110	240	CIM2 Max	0.241	0.0048	2.4395	0.0032	0.1017	0.0026
Base	110	240	CIM2 Min	-1.3008	-0.0014	-0.844	-0.0034	-0.1188	-0.0026
Base	110	240	CIM3 Max	0.1399	0.0065	2.0041	0.0057	0.0678	0.0046
Base	110	240	CIM3 Min	-1.1997	-0.0031	-0.4086	-0.0059	-0.085	-0.0046
Base	110	240	CIM4 Max	-0.0025	0.0043	2.0894	0.0024	0.0723	0.0019
Base	110	240	CIM4 Min	-1.1588	-0.0003	-0.3732	-0.0026	-0.0931	-0.0019
Base	110	240	CIM5 Max	-0.0783	0.0056	1.7629	0.0042	0.0469	0.0035
Base	110	240	CIM5 Min	-1.0831	-0.0016	-0.0466	-0.0045	-0.0677	-0.0035
Base	110	240	CIM6 Max	0.4529	0.0041	2.1204	0.0033	0.1051	0.0026
Base	110	240	CIM6 Min	-1.0888	-0.0021	-1.1631	-0.0034	-0.1154	-0.0026
Base	110	240	CIM7 Max	0.3519	0.0058	1.685	0.0057	0.0712	0.0046
Base	110	240	CIM7 Min	-0.9878	-0.0038	-0.7277	-0.0059	-0.0815	-0.0046
Base	113	241	CV	0.0289	0.0428	0.0529	0.0007	-0.0015	1.818E-05
Base	113	241	CM	0.2454	0.3975	1.1111	0.0027	-0.0051	0.0001
Base	113	241	CIM1	0.2743	0.4403	1.164	0.0035	-0.0066	0.0001
Base	113	241	CIM2 Max	0.6309	0.7421	1.8548	0.0728	0.1449	0.0035
Base	113	241	CIM2 Min	-0.1401	0.053	0.3674	-0.0674	-0.1551	-0.0033
Base	113	241	CIM3 Max	0.5774	0.7127	2.4586	0.0936	0.1085	0.0028
Base	113	241	CIM3 Min	-0.0866	0.0824	-0.2363	-0.0881	-0.1187	-0.0027
Base	113	241	CIM4 Max	0.5562	0.688	1.7085	0.0559	0.1063	0.0026
Base	113	241	CIM4 Min	-0.0221	0.1712	0.593	-0.0493	-0.1188	-0.0025
Base	113	241	CIM5 Max	0.516	0.666	2.1614	0.0714	0.079	0.0022
Base	113	241	CIM5 Min	0.0181	0.1932	0.1402	-0.0648	-0.0914	-0.002
Base	113	241	CIM6 Max	0.5327	0.5831	1.4103	0.0718	0.147	0.0034
Base	113	241	CIM6 Min	-0.2383	-0.106	-0.077	-0.0685	-0.1531	-0.0034
Base	113	241	CIM7 Max	0.4792	0.5537	2.0141	0.0925	0.1105	0.0028
Base	113	241	CIM7 Min	-0.1847	-0.0766	-0.6808	-0.0892	-0.1167	-0.0027
Base	122	95	CV	-1.46E-05	0.013	0.0131	0.0002	7.975E-07	1.647E-05
Base	122	95	CM	-0.0001	0.2998	0.6122	0.0011	5.191E-06	0.0001

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	122	95	CIM1	-0.0001	0.3127	0.6253	0.0013	5.988E-06	0.0001
Base	122	95	CIM2 Max	0.0036	1.9773	4.7673	0.4458	0.0069	0.0033
Base	122	95	CIM2 Min	-0.0037	-1.3777	-3.5429	-0.4437	-0.0069	-0.0032
Base	122	95	CIM3 Max	0.0029	2.6878	6.6854	0.663	0.005	0.0023
Base	122	95	CIM3 Min	-0.003	-2.0883	-5.461	-0.6609	-0.0049	-0.0022
Base	122	95	CIM4 Max	0.0027	1.5676	3.7384	0.3347	0.0052	0.0025
Base	122	95	CIM4 Min	-0.0028	-0.9486	-2.4943	-0.3323	-0.0052	-0.0024
Base	122	95	CIM5 Max	0.0022	2.1005	5.177	0.4977	0.0037	0.0018
Base	122	95	CIM5 Min	-0.0023	-1.4815	-3.9329	-0.4953	-0.0037	-0.0016
Base	122	95	CIM6 Max	0.0036	1.8574	4.5224	0.4454	0.0069	0.0033
Base	122	95	CIM6 Min	-0.0037	-1.4976	-3.7877	-0.4441	-0.0069	-0.0032
Base	122	95	CIM7 Max	0.0029	2.5679	6.4406	0.6626	0.005	0.0023
Base	122	95	CIM7 Min	-0.003	-2.2082	-5.7059	-0.6613	-0.0049	-0.0022
Base	123	154	CV	-0.0164	0.0288	0.0626	-0.0011	-0.0059	0.0002
Base	123	154	CM	-0.0582	0.6448	2.6363	-0.0031	-0.0218	0.0006
Base	123	154	CIM1	-0.0746	0.6736	2.6989	-0.0042	-0.0278	0.0008
Base	123	154	CIM2 Max	1.533	1.5395	6.9296	0.3902	0.7685	0.0324
Base	123	154	CIM2 Min	-1.6495	-0.2499	-1.657	-0.3963	-0.8122	-0.0313
Base	123	154	CIM3 Max	0.9922	1.2687	6.9795	0.5471	0.524	0.0231
Base	123	154	CIM3 Min	-1.1087	0.0209	-1.7069	-0.5533	-0.5677	-0.0219
Base	123	154	CIM4 Max	1.1229	1.3374	5.9032	0.291	0.5665	0.0246
Base	123	154	CIM4 Min	-1.264	-0.0046	-0.5368	-0.2988	-0.6191	-0.0232
Base	123	154	CIM5 Max	0.7173	1.1343	5.9407	0.4087	0.3831	0.0176
Base	123	154	CIM5 Min	-0.8584	0.1985	-0.5742	-0.4166	-0.4357	-0.0162
Base	123	154	CIM6 Max	1.5563	1.2815	5.8751	0.3914	0.7772	0.0322
Base	123	154	CIM6 Min	-1.6262	-0.5078	-2.7116	-0.3951	-0.8035	-0.0315
Base	123	154	CIM7 Max	1.0155	1.0108	5.925	0.5483	0.5327	0.0229
Base	123	154	CIM7 Min	-1.0854	-0.237	-2.7615	-0.552	-0.5589	-0.0221
Base	125	183	CV	-0.0455	0.0377	0.1285	-0.0155	-0.0134	2.949E-05
Base	125	183	CM	-0.1823	0.4468	3.6197	-0.0568	-0.0531	0.0001
Base	125	183	CIM1	-0.2278	0.4845	3.7482	-0.0724	-0.0666	0.0001
Base	125	183	CIM2 Max	1.3993	2.6547	8.3873	0.9118	0.9917	0.0059
Base	125	183	CIM2 Min	-1.7638	-1.761	-1.1479	-1.0255	-1.098	-0.0057
Base	125	183	CIM3 Max	1.5443	3.5349	10.6984	1.2722	0.704	0.0042
Base	125	183	CIM3 Min	-1.9089	-2.6412	-3.459	-1.3859	-0.8103	-0.004
Base	125	183	CIM4 Max	0.9698	2.131	7.2918	0.658	0.7204	0.0045
Base	125	183	CIM4 Min	-1.4026	-1.1808	0.1403	-0.795	-0.8468	-0.0042
Base	125	183	CIM5 Max	1.0786	2.7912	9.0251	0.9283	0.5046	0.0032
Base	125	183	CIM5 Min	-1.5113	-1.8409	-1.593	-1.0653	-0.6311	-0.0029
Base	125	183	CIM6 Max	1.4722	2.476	6.9395	0.9346	1.0129	0.0059
Base	125	183	CIM6 Min	-1.6909	-1.9398	-2.5958	-1.0028	-1.0767	-0.0057
Base	125	183	CIM7 Max	1.6172	3.3562	9.2505	1.2949	0.7252	0.0042
Base	125	183	CIM7 Min	-1.836	-2.82	-4.9069	-1.3631	-0.789	-0.004
Base	25	25	CV	-4.465E-06	9.624E-07	0	-3.749E-06	-1.739E-05	-7.929E-07
Base	25	25	CM	-1.657E-05	3.707E-06	0.0534	-1.444E-05	-0.0001	-2.96E-06
Base	25	25	CIM1	-2.103E-05	4.67E-06	0.0534	-1.819E-05	-0.0001	-3.753E-06
Base	25	25	CIM2 Max	0.0007	0.0003	0.0534	0.0012	0.0027	0.0001
Base	25	25	CIM2 Min	-0.0007	-0.0003	0.0534	-0.0012	-0.0028	-0.0001
Base	25	25	CIM3 Max	0.0004	0.0009	0.0534	0.0035	0.0017	0.0003
Base	25	25	CIM3 Min	-0.0005	-0.0009	0.0534	-0.0036	-0.0018	-0.0003

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Story	Joint Label	Unique Name	Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	25	25	CIM4 Max	0.0005	0.0002	0.0534	0.0009	0.002	0.0001
Base	25	25	CIM4 Min	-0.0006	-0.0002	0.0534	-0.0009	-0.0021	-0.0001
Base	25	25	CIM5 Max	0.0003	0.0007	0.0534	0.0027	0.0013	0.0002
Base	25	25	CIM5 Min	-0.0004	-0.0007	0.0534	-0.0027	-0.0014	-0.0003
Base	25	25	CIM6 Max	0.0007	0.0003	0.0321	0.0012	0.0027	0.0001
Base	25	25	CIM6 Min	-0.0007	-0.0003	0.0321	-0.0012	-0.0028	-0.0001
Base	25	25	CIM7 Max	0.0004	0.0009	0.0321	0.0036	0.0017	0.0003
Base	25	25	CIM7 Min	-0.0005	-0.0009	0.0321	-0.0036	-0.0018	-0.0003
Base	28	39	CV	-4.465E-06	5.95E-07	0	-2.318E-06	-1.739E-05	-7.929E-07
Base	28	39	CM	-1.657E-05	2.336E-06	0.0534	-9.099E-06	-0.0001	-2.96E-06
Base	28	39	CIM1	-2.103E-05	2.931E-06	0.0534	-1.142E-05	-0.0001	-3.753E-06
Base	28	39	CIM2 Max	0.0007	0.0004	0.0534	0.0014	0.0027	0.0001
Base	28	39	CIM2 Min	-0.0007	-0.0004	0.0534	-0.0014	-0.0028	-0.0001
Base	28	39	CIM3 Max	0.0004	0.0008	0.0534	0.0033	0.0017	0.0003
Base	28	39	CIM3 Min	-0.0005	-0.0008	0.0534	-0.0033	-0.0018	-0.0003
Base	28	39	CIM4 Max	0.0005	0.0003	0.0534	0.001	0.002	0.0001
Base	28	39	CIM4 Min	-0.0006	-0.0003	0.0534	-0.0011	-0.0021	-0.0001
Base	28	39	CIM5 Max	0.0003	0.0006	0.0534	0.0024	0.0013	0.0002
Base	28	39	CIM5 Min	-0.0004	-0.0006	0.0534	-0.0025	-0.0014	-0.0003
Base	28	39	CIM6 Max	0.0007	0.0004	0.0321	0.0014	0.0027	0.0001
Base	28	39	CIM6 Min	-0.0007	-0.0004	0.0321	-0.0014	-0.0028	-0.0001
Base	28	39	CIM7 Max	0.0004	0.0008	0.0321	0.0033	0.0017	0.0003
Base	28	39	CIM7 Min	-0.0005	-0.0008	0.0321	-0.0033	-0.0018	-0.0003

8.10.2 Combinaciones de Carga

ANÁLISIS ESTRUCTURA EDIFICIO

COMBINACIONES DE CARGA

A. COMBINACIONES DE CARGA PARA DERIVA

Combinaciones de Carga:

CHEQUEO DE LA DERIVA

$$F_y \circ F_y$$

1.	1.20 C.M.	+ 1.60 C.V.		
2.	1.20 C.M.	+ 1.00 C.V.	+ 1.00	S.X
3.	1.20 C.M.	+ 1.00 C.V.	- 1.00	S.X
4.	1.20 C.M.	+ 1.00 C.V.	+ 1.00	S.Y.
5.	1.20 C.M.	+ 1.00 C.V.	- 1.00	S.Y.
6.	0.90 C.M.		+ 1.00	S.X
7.	0.90 C.M.		- 1.00	S.X
8.	0.90 C.M.		+ 1.00	S.Y.
9.	0.90 C.M.		- 1.00	S.Y.

C.M.	=	Carga Muerta	
C.V.	=	Carga Viva	
S.X	=	Fuerzas Sísmicas Elásticas en X	
S.Y.	=	Fuerzas Sísmicas Elásticas en Y	
R_o	=	1.0	MUROS DE MAMPOSTERÍA NO REFORZADA
ϕ_p	=	0.90	
ϕ_a	=	1.00	
ϕ_{Rx}	=	1.00	
ϕ_{Ry}	=	1.00	
RX	=	$R_o \phi_a \phi_p \phi_r = 1.00$	Según NSR-10
RY	=	$R_o \phi_a \phi_p \phi_r = 1.00$	A.10.4.2.4

B. COMBINACIONES DE CARGA PARA EL MÉTODO DE ESFUERZOS DE TRABAJO - ESTADO LÍMITE DE SERVICIO

$$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_x I \quad \frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_y I$$

1.	1.00 C.M.					Sismo X=	1.00
2.	1.00 C.M.	+ 1.00 C.V.				Sismo Y=	1.00
3.	1.00 C.M.	+ 0.75 C.V.				III=	1.25
4.	1.00 C.M.		+ 0.88	+ 0.26			
5.	1.00 C.M.		+ 0.88	- 0.26			
6.	1.00 C.M.		- 0.88	+ 0.26			
7.	1.00 C.M.		- 0.88	- 0.26			
8.	1.00 C.M.		+ 0.26	+ 0.88			
9.	1.00 C.M.		+ 0.26	- 0.88			
10.	1.00 C.M.		- 0.26	+ 0.88			
11.	1.00 C.M.		- 0.26	- 0.88			
12.	1.00 C.M.	+ 0.75 C.V.	+ 0.66	+ 0.20			
13.	1.00 C.M.	+ 0.75 C.V.	+ 0.66	- 0.20			
14.	1.00 C.M.	+ 0.75 C.V.	- 0.66	+ 0.20			
15.	1.00 C.M.	+ 0.75 C.V.	- 0.66	- 0.20			
16.	1.00 C.M.	+ 0.75 C.V.	+ 0.20	+ 0.66			
17.	1.00 C.M.	+ 0.75 C.V.	+ 0.20	- 0.66			
18.	1.00 C.M.	+ 0.75 C.V.	- 0.20	+ 0.66			
19.	1.00 C.M.	+ 0.75 C.V.	- 0.20	- 0.66			
20.	0.60 C.M.		+ 0.88	+ 0.26			
21.	0.60 C.M.		+ 0.88	- 0.26			
22.	0.60 C.M.		- 0.88	+ 0.26			
23.	0.60 C.M.		- 0.88	- 0.26			
24.	0.60 C.M.		+ 0.26	+ 0.88			
25.	0.60 C.M.		+ 0.26	- 0.88			
26.	0.60 C.M.		- 0.26	+ 0.88			
27.	0.60 C.M.		- 0.26	- 0.88			

Nota: Se tiene en cuenta la irregularidad para el efecto de la torsión.

Observaciones:

Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25

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E. COMBINACIONES DE DISEÑO DE CIMENTACION

1. 1.00 C.M. + 1.00 C.V.
2. 1.00 C.M. + 0.88 S.X
3. 1.00 C.M. + 0.88 S.Y.
4. 1.00 C.M. + 0.75 C.V. + 0.66 S.X
5. 1.00 C.M. + 0.75 C.V. + 0.66 S.Y.
6. 0.60 C.M. + 0.88 S.X
7. 0.60 C.M. + 0.88 S.Y.

C.M. = Carga Muerta
C.V. = Carga Viva
S.X. = Fuerzas Sísmicas Elásticas en X
S.Y. = Fuerzas Sísmicas Elásticas en Y

$R_o = 1.0$ MUROS DE MAMPOSTERÍA NO REFORZADA
 $\phi_p = 0.90$

$\phi_a = 1.00$

$\phi_{Rx} = 1.00$

$\phi_{Ry} = 1.00$

$R = R_o \phi_a \phi_p \phi_r = 1.00$ Según NSR-10

$R = R_o \phi_a \phi_p \phi_r = 1.00$ A.10.4.2.4

Sismo X= 1.00

Sismo Y= 1.00

III= 1.25

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.60CM+0.7SX/R
CIM7	0.60CM+0.7SY/R

8.11 Diseño de elementos – Índices de Sobre esfuerzo

De acuerdo con la información de los modelos matemáticos realizados para el análisis estructural del edificio Jardín Infantil del Hospital San Juan de Dios, los cuales han sido generados conforme a la información recopilada, fue posible generar el estado de esfuerzos para las condiciones actuales (cargas gravitacionales) y las condiciones de diseño (cargas gravitacionales más cargas de sismo), de esta manera se presentan los siguientes resultados.

8.11.1 Muros de Mampostería

BAJO CARGAS GRAVITACIONALES		
CASO DE ANÁLISIS	ÍNDICES DE SOBRESFUERZO	ÍNDICE DE VULNERABILIDAD
Compresión Axial	0.15	0.982
Flexo-Compresión	1.02	
Cortante	0.48	

Tabla 13 Índices de sobre esfuerzo bajo cargas gravitacionales en muros del edificio Jardín Infantil.

BAJO CARGAS GRAVITACIONALES + SISMO		
CASO DE ANÁLISIS	ÍNDICES DE SOBRESFUERZO	ÍNDICE DE VULNERABILIDAD
Compresión Axial	0.38	0.255
Flexo-Compresión	1.25	
Cortante	3.92	

Tabla 14 Índices de sobre esfuerzo bajo cargas gravitacionales y cargas sísmicas en muros del edificio Jardín Infantil.

Los índices de sobre esfuerzo encontrados fueron realizados para la envolvente de diseño de las combinaciones de carga antes presentadas, de esta manera se establecieron 3 revisiones de cada elemento de acuerdo con las características de las solicitaciones actuantes.

- Carga Axial Máxima con sus componentes de Momento y Cortante.
- Momento Máximo con sus componentes de Axial y Cortante.
- Cortante Máximo con sus componentes de Axial y Momento.

La información correspondiente a la revisión de cada uno de los muros evaluados puede ser consultada en las siguientes tablas.

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ELEMENTOS - ANALISIS COMO MAMPOSTERIA NO REFORZADA - TABLA 1 DE 2 - CARGAS GRAVITACIONALES + SISMO

STORY	MURO	TIPO DE COMBINACION	SOLICITACIONES			CARACTERISTICAS DEL MURO								COMPRESION AXIAL				INDICE SOBRE ESFUERZO
			axial	Momento	Cortante	t	L	h'	d	h'/t	σ_c	σ_e	$\sigma_c \sigma_e f_m$	Re	fa	Fa adm	fa <= Fa adm	
			(kN)	(kN.m)	(kN)	mm	mm	mm	mm				(Mpa)		(Mpa)	(Mpa)		
NE+3.8955	P1	AXIAL	39.90	1.50	1.26	320.00	1159.42	3895.50	1159.42	12.17	1.00	1.00	9.35	0.92	0.108	2.28	O.K	0.05
NE+3.8955	P1	CORTANTE	39.90	1.50	1.26	320.00	1159.42	3895.50	1159.42	12.17	1.00	1.00	9.35	0.92	0.108	2.28	O.K	0.05
NE+3.8955	P1	MOMENTO	39.90	1.50	1.26	320.00	1159.42	3895.50	1159.42	12.17	1.00	1.00	9.35	0.92	0.108	2.28	O.K	0.05
NE+3.8955	P2	AXIAL	38.67	3.93	1.87	320.00	1126.32	3895.50	1126.32	12.17	1.00	1.00	9.35	0.92	0.107	2.28	O.K	0.05
NE+3.8955	P2	CORTANTE	38.67	3.93	1.87	320.00	1126.32	3895.50	1126.32	12.17	1.00	1.00	9.35	0.92	0.107	2.28	O.K	0.05
NE+3.8955	P2	MOMENTO	38.67	3.93	1.87	320.00	1126.32	3895.50	1126.32	12.17	1.00	1.00	9.35	0.92	0.107	2.28	O.K	0.05
NE+3.8955	P3	AXIAL	15.29	0.53	0.35	120.00	1359.90	3895.50	1359.90	32.46	1.00	1.00	9.35	0.42	0.094	1.04	O.K	0.09
NE+3.8955	P3	CORTANTE	15.29	0.53	0.35	120.00	1359.90	3895.50	1359.90	32.46	1.00	1.00	9.35	0.42	0.094	1.04	O.K	0.09
NE+3.8955	P3	MOMENTO	15.29	0.53	0.35	120.00	1359.90	3895.50	1359.90	32.46	1.00	1.00	9.35	0.42	0.094	1.04	O.K	0.09
NE+3.8955	P4	AXIAL	72.13	4.85	3.50	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.113	2.25	O.K	0.05
NE+3.8955	P4	CORTANTE	72.13	4.85	3.50	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.113	2.25	O.K	0.05
NE+3.8955	P4	MOMENTO	72.13	4.85	3.50	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.113	2.25	O.K	0.05
NE+3.8955	P5	AXIAL	14.26	0.90	0.43	120.00	1185.60	3895.50	1185.60	32.46	1.00	1.00	9.35	0.42	0.100	1.04	O.K	0.10
NE+3.8955	P5	CORTANTE	14.26	0.90	0.43	120.00	1185.60	3895.50	1185.60	32.46	1.00	1.00	9.35	0.42	0.100	1.04	O.K	0.10
NE+3.8955	P5	MOMENTO	14.26	0.90	0.43	120.00	1185.60	3895.50	1185.60	32.46	1.00	1.00	9.35	0.42	0.100	1.04	O.K	0.10
NE+3.8955	P6	AXIAL	203.11	7.69	6.05	320.00	6589.10	3895.50	6589.10	12.17	1.00	1.00	9.35	0.92	0.096	2.28	O.K	0.04
NE+3.8955	P6	CORTANTE	203.11	7.69	6.05	320.00	6589.10	3895.50	6589.10	12.17	1.00	1.00	9.35	0.92	0.096	2.28	O.K	0.04
NE+3.8955	P6	MOMENTO	203.11	7.69	6.05	320.00	6589.10	3895.50	6589.10	12.17	1.00	1.00	9.35	0.92	0.096	2.28	O.K	0.04
NE+3.8955	P7	AXIAL	27.06	0.62	0.24	300.00	897.70	3895.50	897.70	12.99	1.00	1.00	9.35	0.90	0.100	2.25	O.K	0.04
NE+3.8955	P7	CORTANTE	27.06	0.62	0.24	300.00	897.70	3895.50	897.70	12.99	1.00	1.00	9.35	0.90	0.100	2.25	O.K	0.04
NE+3.8955	P7	MOMENTO	27.06	0.62	0.24	300.00	897.70	3895.50	897.70	12.99	1.00	1.00	9.35	0.90	0.100	2.25	O.K	0.04
NE+3.8955	P8	AXIAL	29.87	1.13	0.46	300.00	1060.20	3895.50	1060.20	12.99	1.00	1.00	9.35	0.90	0.094	2.25	O.K	0.04
NE+3.8955	P8	CORTANTE	29.87	1.13	0.46	300.00	1060.20	3895.50	1060.20	12.99	1.00	1.00	9.35	0.90	0.094	2.25	O.K	0.04
NE+3.8955	P8	MOMENTO	29.87	1.13	0.46	300.00	1060.20	3895.50	1060.20	12.99	1.00	1.00	9.35	0.90	0.094	2.25	O.K	0.04
NE+3.8955	P9	AXIAL	21.18	0.53	0.34	280.00	798.00	3895.50	798.00	13.91	1.00	1.00	9.35	0.89	0.095	2.21	O.K	0.04
NE+3.8955	P9	CORTANTE	21.18	0.53	0.34	280.00	798.00	3895.50	798.00	13.91	1.00	1.00	9.35	0.89	0.095	2.21	O.K	0.04
NE+3.8955	P9	MOMENTO	21.18	0.53	0.34	280.00	798.00	3895.50	798.00	13.91	1.00	1.00	9.35	0.89	0.095	2.21	O.K	0.04
NE+3.8955	P10	AXIAL	10.69	1.77	0.91	280.00	473.10	3895.50	473.10	13.91	1.00	1.00	9.35	0.89	0.081	2.21	O.K	0.04
NE+3.8955	P10	CORTANTE	10.69	1.77	0.91	280.00	473.10	3895.50	473.10	13.91	1.00	1.00	9.35	0.89	0.081	2.21	O.K	0.04
NE+3.8955	P10	MOMENTO	10.69	1.77	0.91	280.00	473.10	3895.50	473.10	13.91	1.00	1.00	9.35	0.89	0.081	2.21	O.K	0.04
NE+3.8955	P11	AXIAL	22.39	0.78	0.36	210.00	1290.60	3895.50	1290.60	18.55	1.00	1.00	9.35	0.80	0.083	2.00	O.K	0.04
NE+3.8955	P11	CORTANTE	22.39	0.78	0.36	210.00	1290.60	3895.50	1290.60	18.55	1.00	1.00	9.35	0.80	0.083	2.00	O.K	0.04
NE+3.8955	P11	MOMENTO	22.39	0.78	0.36	210.00	1290.60	3895.50	1290.60	18.55	1.00	1.00	9.35	0.80	0.083	2.00	O.K	0.04
NE+3.8955	P12	AXIAL	27.55	0.12	0.21	210.00	1539.00	3895.50	1539.00	18.55	1.00	1.00	9.35	0.80	0.085	2.00	O.K	0.04
NE+3.8955	P12	CORTANTE	27.55	0.12	0.21	210.00	1539.00	3895.50	1539.00	18.55	1.00	1.00	9.35	0.80	0.085	2.00	O.K	0.04
NE+3.8955	P12	MOMENTO	27.55	0.12	0.21	210.00	1539.00	3895.50	1539.00	18.55	1.00	1.00	9.35	0.80	0.085	2.00	O.K	0.04
NE+3.8955	P13	AXIAL	37.79	2.63	3.26	120.00	2599.20	3895.50	2599.20	32.46	1.00	1.00	9.35	0.42	0.121	1.04	O.K	0.12
NE+3.8955	P13	CORTANTE	37.79	2.63	3.26	120.00	2599.20	3895.50	2599.20	32.46	1.00	1.00	9.35	0.42	0.121	1.04	O.K	0.12
NE+3.8955	P13	MOMENTO	37.79	2.63	3.26	120.00	2599.20	3895.50	2599.20	32.46	1.00	1.00	9.35	0.42	0.121	1.04	O.K	0.12
NE+3.8955	P14	AXIAL	99.11	1.65	0.66	300.00	3539.50	3895.50	3539.50	12.99	1.00	1.00	9.35	0.90	0.093	2.25	O.K	0.04
NE+3.8955	P14	CORTANTE	99.11	1.65	0.66	300.00	3539.50	3895.50	3539.50	12.99	1.00	1.00	9.35	0.90	0.093	2.25	O.K	0.04
NE+3.8955	P14	MOMENTO	99.11	1.65	0.66	300.00	3539.50	3895.50	3539.50	12.99	1.00	1.00	9.35	0.90	0.093	2.25	O.K	0.04

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NE+3.8955	P15	AXIAL	22.85	4.62	2.58	120.00	1811.50	3895.50	1811.50	32.46	1.00	1.00	9.35	0.42	0.105	1.04	O.K	0.10
NE+3.8955	P15	CORTANTE	22.85	4.62	2.58	120.00	1811.50	3895.50	1811.50	32.46	1.00	1.00	9.35	0.42	0.105	1.04	O.K	0.10
NE+3.8955	P15	MOMENTO	22.85	4.62	2.58	120.00	1811.50	3895.50	1811.50	32.46	1.00	1.00	9.35	0.42	0.105	1.04	O.K	0.10
NE+3.8955	P16	AXIAL	59.34	8.99	4.88	300.00	1965.40	3895.50	1965.40	12.99	1.00	1.00	9.35	0.90	0.101	2.25	O.K	0.04
NE+3.8955	P16	CORTANTE	59.34	8.99	4.88	300.00	1965.40	3895.50	1965.40	12.99	1.00	1.00	9.35	0.90	0.101	2.25	O.K	0.04
NE+3.8955	P16	MOMENTO	59.34	8.99	4.88	300.00	1965.40	3895.50	1965.40	12.99	1.00	1.00	9.35	0.90	0.101	2.25	O.K	0.04
NE+3.8955	P17	AXIAL	121.09	15.08	2.40	300.00	4552.00	3895.50	4552.00	12.99	1.00	1.00	9.35	0.90	0.089	2.25	O.K	0.04
NE+3.8955	P17	CORTANTE	121.09	15.08	2.40	300.00	4552.00	3895.50	4552.00	12.99	1.00	1.00	9.35	0.90	0.089	2.25	O.K	0.04
NE+3.8955	P17	MOMENTO	121.09	15.08	2.40	300.00	4552.00	3895.50	4552.00	12.99	1.00	1.00	9.35	0.90	0.089	2.25	O.K	0.04
NE+3.8955	P18	AXIAL	57.85	7.68	3.93	260.00	2731.50	3895.50	2731.50	14.98	1.00	1.00	9.35	0.87	0.081	2.17	O.K	0.04
NE+3.8955	P18	CORTANTE	57.85	7.68	3.93	260.00	2731.50	3895.50	2731.50	14.98	1.00	1.00	9.35	0.87	0.081	2.17	O.K	0.04
NE+3.8955	P18	MOMENTO	57.85	7.68	3.93	260.00	2731.50	3895.50	2731.50	14.98	1.00	1.00	9.35	0.87	0.081	2.17	O.K	0.04
NE+3.8955	P19	AXIAL	35.84	1.29	0.57	300.00	1434.10	3895.50	1434.10	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P19	CORTANTE	35.84	1.29	0.57	300.00	1434.10	3895.50	1434.10	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P19	MOMENTO	35.84	1.29	0.57	300.00	1434.10	3895.50	1434.10	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P20	AXIAL	18.02	0.59	0.28	300.00	735.30	3895.50	735.30	12.99	1.00	1.00	9.35	0.90	0.082	2.25	O.K	0.04
NE+3.8955	P20	CORTANTE	18.02	0.59	0.28	300.00	735.30	3895.50	735.30	12.99	1.00	1.00	9.35	0.90	0.082	2.25	O.K	0.04
NE+3.8955	P20	MOMENTO	18.02	0.59	0.28	300.00	735.30	3895.50	735.30	12.99	1.00	1.00	9.35	0.90	0.082	2.25	O.K	0.04
NE+3.8955	P21	AXIAL	21.45	1.88	1.29	140.00	1617.30	3895.50	1617.30	27.83	1.00	1.00	9.35	0.56	0.095	1.40	O.K	0.07
NE+3.8955	P21	CORTANTE	21.45	1.88	1.29	140.00	1617.30	3895.50	1617.30	27.83	1.00	1.00	9.35	0.56	0.095	1.40	O.K	0.07
NE+3.8955	P21	MOMENTO	21.45	1.88	1.29	140.00	1617.30	3895.50	1617.30	27.83	1.00	1.00	9.35	0.56	0.095	1.40	O.K	0.07
NE+3.8955	P22	AXIAL	52.12	2.32	0.66	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.082	2.25	O.K	0.04
NE+3.8955	P22	CORTANTE	52.12	2.32	0.66	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.082	2.25	O.K	0.04
NE+3.8955	P22	MOMENTO	52.12	2.32	0.66	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.082	2.25	O.K	0.04
NE+3.8955	P23	AXIAL	29.18	1.23	0.57	140.00	2508.00	3895.50	2508.00	27.83	1.00	1.00	9.35	0.56	0.083	1.40	O.K	0.06
NE+3.8955	P23	CORTANTE	29.18	1.23	0.57	140.00	2508.00	3895.50	2508.00	27.83	1.00	1.00	9.35	0.56	0.083	1.40	O.K	0.06
NE+3.8955	P23	MOMENTO	29.18	1.23	0.57	140.00	2508.00	3895.50	2508.00	27.83	1.00	1.00	9.35	0.56	0.083	1.40	O.K	0.06
NE+3.8955	P24	AXIAL	19.57	2.78	1.44	150.00	1596.00	3895.50	1596.00	25.97	1.00	1.00	9.35	0.62	0.082	1.54	O.K	0.05
NE+3.8955	P24	CORTANTE	19.57	2.78	1.44	150.00	1596.00	3895.50	1596.00	25.97	1.00	1.00	9.35	0.62	0.082	1.54	O.K	0.05
NE+3.8955	P24	MOMENTO	19.57	2.78	1.44	150.00	1596.00	3895.50	1596.00	25.97	1.00	1.00	9.35	0.62	0.082	1.54	O.K	0.05
NE+3.8955	P25	AXIAL	34.81	0.54	0.23	300.00	1399.91	3895.50	1399.91	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P25	CORTANTE	34.81	0.54	0.23	300.00	1399.91	3895.50	1399.91	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P25	MOMENTO	34.81	0.54	0.23	300.00	1399.91	3895.50	1399.91	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P26	AXIAL	37.26	0.55	0.64	170.00	2508.00	3895.50	2508.00	22.91	1.00	1.00	9.35	0.70	0.087	1.75	O.K	0.05
NE+3.8955	P26	CORTANTE	37.26	0.55	0.64	170.00	2508.00	3895.50	2508.00	22.91	1.00	1.00	9.35	0.70	0.087	1.75	O.K	0.05
NE+3.8955	P26	MOMENTO	37.26	0.55	0.64	170.00	2508.00	3895.50	2508.00	22.91	1.00	1.00	9.35	0.70	0.087	1.75	O.K	0.05
NE+3.8955	P27	AXIAL	38.01	6.05	3.66	150.00	2861.40	3895.50	2861.40	25.97	1.00	1.00	9.35	0.62	0.089	1.54	O.K	0.06
NE+3.8955	P27	CORTANTE	38.01	6.05	3.66	150.00	2861.40	3895.50	2861.40	25.97	1.00	1.00	9.35	0.62	0.089	1.54	O.K	0.06
NE+3.8955	P27	MOMENTO	38.01	6.05	3.66	150.00	2861.40	3895.50	2861.40	25.97	1.00	1.00	9.35	0.62	0.089	1.54	O.K	0.06
NE+3.8955	P28	AXIAL	12.14	1.90	0.98	300.00	444.60	3895.50	444.60	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04
NE+3.8955	P28	CORTANTE	12.14	1.90	0.98	300.00	444.60	3895.50	444.60	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04
NE+3.8955	P28	MOMENTO	12.14	1.90	0.98	300.00	444.60	3895.50	444.60	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04

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NE+3.8955	P29	AXIAL	27.54	0.91	0.36	150.00	1280.22	3895.50	1280.22	25.97	1.00	1.00	9.35	0.62	0.143	1.54	O.K	0.09
NE+3.8955	P29	CORTANTE	27.54	0.91	0.36	150.00	1280.22	3895.50	1280.22	25.97	1.00	1.00	9.35	0.62	0.143	1.54	O.K	0.09
NE+3.8955	P29	MOMENTO	27.54	0.91	0.36	150.00	1280.22	3895.50	1280.22	25.97	1.00	1.00	9.35	0.62	0.143	1.54	O.K	0.09
NE+3.8955	P30	AXIAL	3.76	0.32	0.16	120.00	307.70	3895.50	307.70	32.46	1.00	1.00	9.35	0.42	0.102	1.04	O.K	0.10
NE+3.8955	P30	CORTANTE	3.76	0.32	0.16	120.00	307.70	3895.50	307.70	32.46	1.00	1.00	9.35	0.42	0.102	1.04	O.K	0.10
NE+3.8955	P30	MOMENTO	3.76	0.32	0.16	120.00	307.70	3895.50	307.70	32.46	1.00	1.00	9.35	0.42	0.102	1.04	O.K	0.10
NE+3.8955	P31	AXIAL	47.02	4.20	4.37	150.00	3112.20	3895.50	3112.20	25.97	1.00	1.00	9.35	0.62	0.101	1.54	O.K	0.07
NE+3.8955	P31	CORTANTE	47.02	4.20	4.37	150.00	3112.20	3895.50	3112.20	25.97	1.00	1.00	9.35	0.62	0.101	1.54	O.K	0.07
NE+3.8955	P31	MOMENTO	47.02	4.20	4.37	150.00	3112.20	3895.50	3112.20	25.97	1.00	1.00	9.35	0.62	0.101	1.54	O.K	0.07
NE+3.8955	P33	AXIAL	37.95	2.32	1.18	460.00	1014.60	3895.50	1014.60	8.47	1.00	1.00	9.35	0.96	0.081	2.39	O.K	0.03
NE+3.8955	P33	CORTANTE	37.95	2.32	1.18	460.00	1014.60	3895.50	1014.60	8.47	1.00	1.00	9.35	0.96	0.081	2.39	O.K	0.03
NE+3.8955	P33	MOMENTO	37.95	2.32	1.18	460.00	1014.60	3895.50	1014.60	8.47	1.00	1.00	9.35	0.96	0.081	2.39	O.K	0.03
NE+3.8955	P34	AXIAL	55.63	1.58	0.94	700.00	1014.60	3895.50	1014.60	5.57	1.00	1.00	9.35	0.98	0.078	2.44	O.K	0.03
NE+3.8955	P34	CORTANTE	55.63	1.58	0.94	700.00	1014.60	3895.50	1014.60	5.57	1.00	1.00	9.35	0.98	0.078	2.44	O.K	0.03
NE+3.8955	P34	MOMENTO	55.63	1.58	0.94	700.00	1014.60	3895.50	1014.60	5.57	1.00	1.00	9.35	0.98	0.078	2.44	O.K	0.03
NE+3.8955	P35	AXIAL	8.51	3.42	1.76	180.00	171.00	3895.50	171.00	21.64	1.00	1.00	9.35	0.73	0.277	1.83	O.K	0.15
NE+3.8955	P35	CORTANTE	8.51	3.42	1.76	180.00	171.00	3895.50	171.00	21.64	1.00	1.00	9.35	0.73	0.277	1.83	O.K	0.15
NE+3.8955	P35	MOMENTO	8.51	3.42	1.76	180.00	171.00	3895.50	171.00	21.64	1.00	1.00	9.35	0.73	0.277	1.83	O.K	0.15
NE+3.8955	P36	AXIAL	25.25	0.22	0.13	180.00	1552.55	3895.50	1552.55	21.64	1.00	1.00	9.35	0.73	0.090	1.83	O.K	0.05
NE+3.8955	P36	CORTANTE	25.25	0.22	0.13	180.00	1552.55	3895.50	1552.55	21.64	1.00	1.00	9.35	0.73	0.090	1.83	O.K	0.05
NE+3.8955	P36	MOMENTO	25.25	0.22	0.13	180.00	1552.55	3895.50	1552.55	21.64	1.00	1.00	9.35	0.73	0.090	1.83	O.K	0.05
NE+3.8955	P38	AXIAL	25.70	0.09	0.09	160.00	1081.15	3895.50	1081.15	24.35	1.00	1.00	9.35	0.66	0.149	1.65	O.K	0.09
NE+3.8955	P38	CORTANTE	25.70	0.09	0.09	160.00	1081.15	3895.50	1081.15	24.35	1.00	1.00	9.35	0.66	0.149	1.65	O.K	0.09
NE+3.8955	P38	MOMENTO	25.70	0.09	0.09	160.00	1081.15	3895.50	1081.15	24.35	1.00	1.00	9.35	0.66	0.149	1.65	O.K	0.09
NE+3.8955	P40	AXIAL	6.65	0.10	0.06	160.00	488.40	3895.50	488.40	24.35	1.00	1.00	9.35	0.66	0.085	1.65	O.K	0.05
NE+3.8955	P40	CORTANTE	6.65	0.10	0.06	160.00	488.40	3895.50	488.40	24.35	1.00	1.00	9.35	0.66	0.085	1.65	O.K	0.05
NE+3.8955	P40	MOMENTO	6.65	0.10	0.06	160.00	488.40	3895.50	488.40	24.35	1.00	1.00	9.35	0.66	0.085	1.65	O.K	0.05
NE+3.8955	P41	AXIAL	66.90	3.05	1.17	330.00	2508.00	3895.50	2508.00	11.80	1.00	1.00	9.35	0.92	0.081	2.29	O.K	0.04
NE+3.8955	P41	CORTANTE	66.90	3.05	1.17	330.00	2508.00	3895.50	2508.00	11.80	1.00	1.00	9.35	0.92	0.081	2.29	O.K	0.04
NE+3.8955	P41	MOMENTO	66.90	3.05	1.17	330.00	2508.00	3895.50	2508.00	11.80	1.00	1.00	9.35	0.92	0.081	2.29	O.K	0.04
NE+3.8955	P42	AXIAL	81.66	8.63	4.16	300.00	3499.80	3895.50	3499.80	12.99	1.00	1.00	9.35	0.90	0.078	2.25	O.K	0.03
NE+3.8955	P42	CORTANTE	81.66	8.63	4.16	300.00	3499.80	3895.50	3499.80	12.99	1.00	1.00	9.35	0.90	0.078	2.25	O.K	0.03
NE+3.8955	P42	MOMENTO	81.66	8.63	4.16	300.00	3499.80	3895.50	3499.80	12.99	1.00	1.00	9.35	0.90	0.078	2.25	O.K	0.03
NE+3.8955	P43	AXIAL	38.46	0.73	0.34	180.00	2508.00	3895.50	2508.00	21.64	1.00	1.00	9.35	0.73	0.085	1.83	O.K	0.05
NE+3.8955	P43	CORTANTE	38.46	0.73	0.34	180.00	2508.00	3895.50	2508.00	21.64	1.00	1.00	9.35	0.73	0.085	1.83	O.K	0.05
NE+3.8955	P43	MOMENTO	38.46	0.73	0.34	180.00	2508.00	3895.50	2508.00	21.64	1.00	1.00	9.35	0.73	0.085	1.83	O.K	0.05
NE+3.8955	P44	AXIAL	15.40	1.26	0.73	160.00	1014.60	3895.50	1014.60	24.35	1.00	1.00	9.35	0.66	0.095	1.65	O.K	0.06
NE+3.8955	P44	CORTANTE	15.40	1.26	0.73	160.00	1014.60	3895.50	1014.60	24.35	1.00	1.00	9.35	0.66	0.095	1.65	O.K	0.06
NE+3.8955	P44	MOMENTO	15.40	1.26	0.73	160.00	1014.60	3895.50	1014.60	24.35	1.00	1.00	9.35	0.66	0.095	1.65	O.K	0.06
NE+3.8955	P45	AXIAL	18.95	1.28	0.61	160.00	1288.20	3895.50	1288.20	24.35	1.00	1.00	9.35	0.66	0.092	1.65	O.K	0.06
NE+3.8955	P45	CORTANTE	18.95	1.28	0.61	160.00	1288.20	3895.50	1288.20	24.35	1.00	1.00	9.35	0.66	0.092	1.65	O.K	0.06
NE+3.8955	P45	MOMENTO	18.95	1.28	0.61	160.00	1288.20	3895.50	1288.20	24.35	1.00	1.00	9.35	0.66	0.092	1.65	O.K	0.06

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NE+3.8955	P46	AXIAL	12.40	0.57	0.29	300.00	456.00	3895.50	456.00	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04
NE+3.8955	P46	CORTANTE	12.40	0.57	0.29	300.00	456.00	3895.50	456.00	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04
NE+3.8955	P46	MOMENTO	12.40	0.57	0.29	300.00	456.00	3895.50	456.00	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04
NE+3.8955	P47	AXIAL	11.66	0.37	0.20	300.00	421.30	3895.50	421.30	12.99	1.00	1.00	9.35	0.90	0.092	2.25	O.K	0.04
NE+3.8955	P47	CORTANTE	11.66	0.37	0.20	300.00	421.30	3895.50	421.30	12.99	1.00	1.00	9.35	0.90	0.092	2.25	O.K	0.04
NE+3.8955	P47	MOMENTO	11.66	0.37	0.20	300.00	421.30	3895.50	421.30	12.99	1.00	1.00	9.35	0.90	0.092	2.25	O.K	0.04
NE+3.8955	P48	AXIAL	18.33	0.98	0.56	300.00	783.10	3895.50	783.10	12.99	1.00	1.00	9.35	0.90	0.078	2.25	O.K	0.03
NE+3.8955	P48	CORTANTE	18.33	0.98	0.56	300.00	783.10	3895.50	783.10	12.99	1.00	1.00	9.35	0.90	0.078	2.25	O.K	0.03
NE+3.8955	P48	MOMENTO	18.33	0.98	0.56	300.00	783.10	3895.50	783.10	12.99	1.00	1.00	9.35	0.90	0.078	2.25	O.K	0.03
NE+3.8955	P49	AXIAL	29.52	0.83	0.28	300.00	1252.20	3895.50	1252.20	12.99	1.00	1.00	9.35	0.90	0.079	2.25	O.K	0.03
NE+3.8955	P49	CORTANTE	29.52	0.83	0.28	300.00	1252.20	3895.50	1252.20	12.99	1.00	1.00	9.35	0.90	0.079	2.25	O.K	0.03
NE+3.8955	P49	MOMENTO	29.52	0.83	0.28	300.00	1252.20	3895.50	1252.20	12.99	1.00	1.00	9.35	0.90	0.079	2.25	O.K	0.03
NE+3.8955	P50	AXIAL	39.50	0.41	1.32	160.00	2485.20	3895.50	2485.20	24.35	1.00	1.00	9.35	0.66	0.099	1.65	O.K	0.06
NE+3.8955	P50	CORTANTE	39.50	0.41	1.32	160.00	2485.20	3895.50	2485.20	24.35	1.00	1.00	9.35	0.66	0.099	1.65	O.K	0.06
NE+3.8955	P50	MOMENTO	39.50	0.41	1.32	160.00	2485.20	3895.50	2485.20	24.35	1.00	1.00	9.35	0.66	0.099	1.65	O.K	0.06
NE+3.8955	P51	AXIAL	16.86	0.38	0.17	300.00	674.40	3895.50	674.40	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P51	CORTANTE	16.86	0.38	0.17	300.00	674.40	3895.50	674.40	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P51	MOMENTO	16.86	0.38	0.17	300.00	674.40	3895.50	674.40	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P52	AXIAL	21.53	0.00	0.06	300.00	843.60	3895.50	843.60	12.99	1.00	1.00	9.35	0.90	0.085	2.25	O.K	0.04
NE+3.8955	P52	CORTANTE	21.53	0.00	0.06	300.00	843.60	3895.50	843.60	12.99	1.00	1.00	9.35	0.90	0.085	2.25	O.K	0.04
NE+3.8955	P52	MOMENTO	20.89	0.00	0.04	300.00	843.60	3895.50	843.60	12.99	1.00	1.00	9.35	0.90	0.083	2.25	O.K	0.04
NE+3.8955	P53	AXIAL	30.05	2.23	2.27	120.00	2359.80	3895.50	2359.80	32.46	1.00	1.00	9.35	0.42	0.106	1.04	O.K	0.10
NE+3.8955	P53	CORTANTE	30.05	2.23	2.27	120.00	2359.80	3895.50	2359.80	32.46	1.00	1.00	9.35	0.42	0.106	1.04	O.K	0.10
NE+3.8955	P53	MOMENTO	30.05	2.23	2.27	120.00	2359.80	3895.50	2359.80	32.46	1.00	1.00	9.35	0.42	0.106	1.04	O.K	0.10
NE+3.8955	P54	AXIAL	46.09	3.69	2.33	300.00	1348.70	3895.50	1348.70	12.99	1.00	1.00	9.35	0.90	0.114	2.25	O.K	0.05
NE+3.8955	P54	CORTANTE	46.09	3.69	2.33	300.00	1348.70	3895.50	1348.70	12.99	1.00	1.00	9.35	0.90	0.114	2.25	O.K	0.05
NE+3.8955	P54	MOMENTO	46.09	3.69	2.33	300.00	1348.70	3895.50	1348.70	12.99	1.00	1.00	9.35	0.90	0.114	2.25	O.K	0.05
NE+3.8955	P55	AXIAL	19.65	3.35	1.77	300.00	589.30	3895.50	589.30	12.99	1.00	1.00	9.35	0.90	0.111	2.25	O.K	0.05
NE+3.8955	P55	CORTANTE	19.65	3.35	1.77	300.00	589.30	3895.50	589.30	12.99	1.00	1.00	9.35	0.90	0.111	2.25	O.K	0.05
NE+3.8955	P55	MOMENTO	19.65	3.35	1.77	300.00	589.30	3895.50	589.30	12.99	1.00	1.00	9.35	0.90	0.111	2.25	O.K	0.05
NE+3.8955	P56	AXIAL	125.95	16.06	5.10	300.00	4446.00	3895.50	4446.00	12.99	1.00	1.00	9.35	0.90	0.094	2.25	O.K	0.04
NE+3.8955	P56	CORTANTE	125.95	16.06	5.10	300.00	4446.00	3895.50	4446.00	12.99	1.00	1.00	9.35	0.90	0.094	2.25	O.K	0.04
NE+3.8955	P56	MOMENTO	125.95	16.06	5.10	300.00	4446.00	3895.50	4446.00	12.99	1.00	1.00	9.35	0.90	0.094	2.25	O.K	0.04
NE+3.8955	P57	AXIAL	28.68	5.06	2.74	320.00	911.90	3895.50	911.90	12.17	1.00	1.00	9.35	0.92	0.098	2.28	O.K	0.04
NE+3.8955	P57	CORTANTE	28.68	5.06	2.74	320.00	911.90	3895.50	911.90	12.17	1.00	1.00	9.35	0.92	0.098	2.28	O.K	0.04
NE+3.8955	P57	MOMENTO	28.68	5.06	2.74	320.00	911.90	3895.50	911.90	12.17	1.00	1.00	9.35	0.92	0.098	2.28	O.K	0.04

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NE+3.8955	P58	AXIAL	49.63	7.03	3.81	320.00	934.80	3895.50	934.80	12.17	1.00	1.00	9.35	0.92	0.166	2.28	O.K	0.07
NE+3.8955	P58	CORTANTE	49.63	7.03	3.81	320.00	934.80	3895.50	934.80	12.17	1.00	1.00	9.35	0.92	0.166	2.28	O.K	0.07
NE+3.8955	P58	MOMENTO	49.63	7.03	3.81	320.00	934.80	3895.50	934.80	12.17	1.00	1.00	9.35	0.92	0.166	2.28	O.K	0.07
NE+3.8955	P59	AXIAL	18.68	0.23	0.16	300.00	718.20	3895.50	718.20	12.99	1.00	1.00	9.35	0.90	0.087	2.25	O.K	0.04
NE+3.8955	P59	CORTANTE	18.68	0.23	0.16	300.00	718.20	3895.50	718.20	12.99	1.00	1.00	9.35	0.90	0.087	2.25	O.K	0.04
NE+3.8955	P59	MOMENTO	18.68	0.23	0.16	300.00	718.20	3895.50	718.20	12.99	1.00	1.00	9.35	0.90	0.087	2.25	O.K	0.04
NE+3.8955	P60	AXIAL	29.28	2.70	1.33	300.00	1390.80	3895.50	1390.80	12.99	1.00	1.00	9.35	0.90	0.070	2.25	O.K	0.03
NE+3.8955	P60	CORTANTE	29.02	3.39	1.67	300.00	1390.80	3895.50	1390.80	12.99	1.00	1.00	9.35	0.90	0.070	2.25	O.K	0.03
NE+3.8955	P60	MOMENTO	29.02	3.39	1.67	300.00	1390.80	3895.50	1390.80	12.99	1.00	1.00	9.35	0.90	0.070	2.25	O.K	0.03
NE+3.8955	P61	AXIAL	163.66	36.20	8.98	380.00	5316.90	3895.50	5316.90	10.25	1.00	1.00	9.35	0.94	0.081	2.34	O.K	0.03
NE+3.8955	P61	CORTANTE	163.66	36.20	8.98	380.00	5316.90	3895.50	5316.90	10.25	1.00	1.00	9.35	0.94	0.081	2.34	O.K	0.03
NE+3.8955	P61	MOMENTO	163.66	36.20	8.98	380.00	5316.90	3895.50	5316.90	10.25	1.00	1.00	9.35	0.94	0.081	2.34	O.K	0.03
NE+3.8955	P62	AXIAL	20.69	5.76	3.02	300.00	774.00	3895.50	774.00	12.99	1.00	1.00	9.35	0.90	0.089	2.25	O.K	0.04
NE+3.8955	P62	CORTANTE	20.69	5.76	3.02	300.00	774.00	3895.50	774.00	12.99	1.00	1.00	9.35	0.90	0.089	2.25	O.K	0.04
NE+3.8955	P62	MOMENTO	20.69	5.76	3.02	300.00	774.00	3895.50	774.00	12.99	1.00	1.00	9.35	0.90	0.089	2.25	O.K	0.04
NE+3.8955	P63	AXIAL	52.67	8.54	6.08	140.00	2826.61	3895.50	2826.61	27.83	1.00	1.00	9.35	0.56	0.133	1.40	O.K	0.10
NE+3.8955	P63	CORTANTE	52.67	8.54	6.08	140.00	2826.61	3895.50	2826.61	27.83	1.00	1.00	9.35	0.56	0.133	1.40	O.K	0.10
NE+3.8955	P63	MOMENTO	52.67	8.54	6.08	140.00	2826.61	3895.50	2826.61	27.83	1.00	1.00	9.35	0.56	0.133	1.40	O.K	0.10
NE+3.8955	P65	AXIAL	55.02	11.34	7.26	380.00	1547.80	3895.50	1547.80	10.25	1.00	1.00	9.35	0.94	0.094	2.34	O.K	0.04
NE+3.8955	P65	CORTANTE	55.02	11.34	7.26	380.00	1547.80	3895.50	1547.80	10.25	1.00	1.00	9.35	0.94	0.094	2.34	O.K	0.04
NE+3.8955	P65	MOMENTO	55.02	11.34	7.26	380.00	1547.80	3895.50	1547.80	10.25	1.00	1.00	9.35	0.94	0.094	2.34	O.K	0.04
NE+3.8955	P66	AXIAL	100.04	8.05	4.66	320.00	2690.40	3895.50	2690.40	12.17	1.00	1.00	9.35	0.92	0.116	2.28	O.K	0.05
NE+3.8955	P66	CORTANTE	100.04	8.05	4.66	320.00	2690.40	3895.50	2690.40	12.17	1.00	1.00	9.35	0.92	0.116	2.28	O.K	0.05
NE+3.8955	P66	MOMENTO	100.04	8.05	4.66	320.00	2690.40	3895.50	2690.40	12.17	1.00	1.00	9.35	0.92	0.116	2.28	O.K	0.05
NE+3.8955	P67	AXIAL	72.60	7.02	4.22	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.114	2.25	O.K	0.05
NE+3.8955	P67	CORTANTE	72.60	7.02	4.22	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.114	2.25	O.K	0.05
NE+3.8955	P67	MOMENTO	72.60	7.02	4.22	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.114	2.25	O.K	0.05

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ELEMENTOS - ANALISIS COMO MAMPOSTERIA NO REFORZADA - TABLA 2 DE 2 - CARGAS GRAVITACIONALES + SISMO

FLEXO-COMPRESION																ESF. COMBINADOS				CORTANTE									
c	l	fb	Fb _{adm}	fb<=Fb _{adm}	INDICE SOBRE ESFUERZO	DE	(F _a /F _{a adm})+(F _b /F _{b adm})	AMV	MU/VU d	Fv _{adm}	Fv _{adm} +0.2 fam	AXIAL CM	fam	f _v		fvc<=Fv _{adm}	INDICE SOBRE ESFUERZO	DE											
(mm)	(mm ⁴)	(Mpa)	(Mpa)					mm ²		(Mpa)	(Mpa)	KN	(Mpa)	(Mpa)	(Mpa)														
579.71	41561488706.05	0.13	4.10	O.K	0.03		0.08	O.K	371014.40	1.29	0.10	0.12	38.22	0.10	0.00	0.34	O.k	0.03											
579.71	41561488706.05	0.13	4.10	O.K	0.03		0.08	O.K	371014.40	1.29	0.10	0.12	38.22	0.10	0.00	0.34	O.k	0.03											
579.71	41561488706.05	0.13	4.10	O.K	0.03		0.08	O.k	371014.40	1.29	0.10	0.12	38.22	0.10	0.00	0.34	O.k	0.03											
563.16	38102556877.33	0.17	4.10	O.K	0.04		0.09	O.K	360422.40	2.34	0.10	0.12	37.02	0.10	0.01	0.34	O.k	0.05											
563.16	38102556877.33	0.17	4.10	O.K	0.04		0.09	O.K	360422.40	2.34	0.10	0.12	37.02	0.10	0.01	0.34	O.k	0.05											
563.16	38102556877.33	0.17	4.10	O.K	0.04		0.09	O.k	360422.40	2.34	0.10	0.12	37.02	0.10	0.01	0.34	O.k	0.05											
679.95	25149011607.99	0.11	4.10	O.K	0.03		0.12	O.K	163188.00	1.37	0.10	0.12	14.59	0.09	0.00	0.34	O.k	0.02											
679.95	25149011607.99	0.11	4.10	O.K	0.03		0.12	O.k	163188.00	1.37	0.10	0.12	14.59	0.09	0.00	0.34	O.k	0.02											
679.95	25149011607.99	0.11	4.10	O.K	0.03		0.12	O.k	163188.00	1.37	0.10	0.12	14.59	0.09	0.00	0.34	O.k	0.02											
1065.90	242202924235.80	0.13	4.10	O.K	0.03		0.08	O.K	639540.00	0.81	0.10	0.12	67.12	0.10	0.01	0.34	O.k	0.06											
1065.90	242202924235.80	0.13	4.10	O.K	0.03		0.08	O.K	639540.00	0.81	0.10	0.12	67.12	0.10	0.01	0.34	O.k	0.06											
1065.90	242202924235.80	0.13	4.10	O.K	0.03		0.08	O.K	639540.00	0.81	0.10	0.12	67.12	0.10	0.01	0.34	O.k	0.06											
592.80	16665355100.16	0.13	4.10	O.K	0.03		0.13	O.K	142272.00	2.21	0.10	0.12	13.43	0.09	0.00	0.34	O.k	0.03											
592.80	16665355100.16	0.13	4.10	O.K	0.03		0.13	O.k	142272.00	2.21	0.10	0.12	13.43	0.09	0.00	0.34	O.k	0.03											
592.80	16665355100.16	0.13	4.10	O.K	0.03		0.13	O.k	142272.00	2.21	0.10	0.12	13.43	0.09	0.00	0.34	O.k	0.03											
3294.55	7628638377145.89	0.10	4.10	O.K	0.02		0.07	O.K	2108512.00	0.24	0.10	0.12	192.50	0.09	0.00	0.34	O.k	0.03											
3294.55	7628638377145.89	0.10	4.10	O.K	0.02		0.07	O.K	2108512.00	0.24	0.10	0.12	192.50	0.09	0.00	0.34	O.k	0.03											
3294.55	7628638377145.89	0.10	4.10	O.K	0.02		0.07	O.k	2108512.00	0.24	0.10	0.12	192.50	0.09	0.00	0.34	O.k	0.03											
448.85	18085631770.83	0.12	4.10	O.K	0.03		0.07	O.K	269310.00	3.58	0.10	0.12	25.47	0.09	0.00	0.34	O.k	0.01											
448.85	18085631770.83	0.12	4.10	O.K	0.03		0.07	O.k	269310.00	3.58	0.10	0.12	25.47	0.09	0.00	0.34	O.k	0.01											
448.85	18085631770.83	0.12	4.10	O.K	0.03		0.07	O.k	269310.00	3.58	0.10	0.12	25.47	0.09	0.00	0.34	O.k	0.01											
530.10	29792257180.20	0.11	4.10	O.K	0.03		0.07	O.K	318060.00	2.88	0.10	0.12	28.43	0.09	0.00	0.34	O.k	0.02											
530.10	29792257180.20	0.11	4.10	O.K	0.03		0.07	O.k	318060.00	2.88	0.10	0.12	28.43	0.09	0.00	0.34	O.k	0.02											
530.10	29792257180.20	0.11	4.10	O.K	0.03		0.07	O.k	318060.00	2.88	0.10	0.12	28.43	0.09	0.00	0.34	O.k	0.02											
399.00	11857290480.00	0.11	4.10	O.K	0.03		0.07	O.K	223440.00	2.45	0.10	0.12	20.17	0.09	0.00	0.34	O.k	0.02											
399.00	11857290480.00	0.11	4.10	O.K	0.03		0.07	O.k	223440.00	2.45	0.10	0.12	20.17	0.09	0.00	0.34	O.k	0.02											
399.00	11857290480.00	0.11	4.10	O.K	0.03		0.07	O.k	223440.00	2.45	0.10	0.12	20.17	0.09	0.00	0.34	O.k	0.02											
236.55	2470788830.79	0.25	4.10	O.K	0.06		0.10	O.K	132468.00	5.15	0.10	0.12	10.48	0.08	0.01	0.34	O.k	0.07											
236.55	2470788830.79	0.25	4.10	O.K	0.06		0.10	O.K	132468.00	5.15	0.10	0.12	10.48	0.08	0.01	0.34	O.k	0.07											
236.55	2470788830.79	0.25	4.10	O.K	0.06		0.10	O.k	132468.00	5.15	0.10	0.12	10.48	0.08	0.01	0.34	O.k	0.07											
645.30	37619501034.78	0.10	4.10	O.K	0.02		0.06	O.K	271026.00	2.12	0.10	0.12	21.84	0.08	0.00	0.34	O.k	0.01											
645.30	37619501034.78	0.10	4.10	O.K	0.02		0.06	O.k	271026.00	2.12	0.10	0.12	21.84	0.08	0.00	0.34	O.k	0.01											
645.30	37619501034.78	0.10	4.10	O.K	0.02		0.06	O.k	271026.00	2.12	0.10	0.12	21.84	0.08	0.00	0.34	O.k	0.01											
769.50	63790191832.50	0.09	4.10	O.K	0.02		0.06	O.K	323190.00	0.47	0.10	0.12	26.74	0.08	0.00	0.34	O.k	0.01											
769.50	63790191832.50	0.09	4.10	O.K	0.02		0.06	O.k	323190.00	0.47	0.10	0.12	26.74	0.08	0.00	0.34	O.k	0.01											
769.50	63790191832.50	0.09	4.10	O.K	0.02		0.06	O.k	323190.00	0.47	0.10	0.12	26.74	0.08	0.00	0.34	O.k	0.01											
1299.60	175597809914.88	0.14	4.10	O.K	0.03		0.15	O.K	311904.00	0.39	0.10	0.12	34.63	0.11	0.01	0.34	O.k	0.11											
1299.60	175597809914.88	0.14	4.10	O.K	0.03		0.15	O.k	311904.00	0.39	0.10	0.12	34.63	0.11	0.01	0.34	O.k	0.11											
1299.60	175597809914.88	0.14	4.10	O.K	0.03		0.15	O.k	311904.00	0.39	0.10	0.12	34.63	0.11	0.01	0.34	O.k	0.11											
1769.75	1108576731371.87	0.10	4.10	O.K	0.02		0.06	O.K	1061850.00	0.88	0.10	0.12	94.49	0.09	0.00	0.34	O.k	0.01											
1769.75	1108576731371.87	0.10	4.10	O.K	0.02		0.06	O.k	1061850.00	0.88	0.10	0.12	94.49	0.09	0.00	0.34	O.k	0.01											
1769.75	1108576731371.87	0.10	4.10	O.K	0.02		0.06	O.k	1061850.00	0.88	0.10	0.12	94.49	0.09	0.00	0.34	O.k	0.01											

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905.75	59444956708.75	0.18	4.10	O.K	0.04	0.14	O.k	217380.00	1.23	0.10	0.12	21.39	0.10	0.01	0.34	O.k	0.12
905.75	59444956708.75	0.18	4.10	O.K	0.04	0.14	O.k	217380.00	1.23	0.10	0.12	21.39	0.10	0.01	0.34	O.k	0.12
905.75	59444956708.75	0.18	4.10	O.K	0.04	0.14	O.k	217380.00	1.23	0.10	0.12	21.39	0.10	0.01	0.34	O.k	0.12
982.70	189798538456.60	0.15	4.10	O.K	0.04	0.08	O.k	589620.00	1.17	0.10	0.12	55.84	0.09	0.01	0.34	O.k	0.09
982.70	189798538456.60	0.15	4.10	O.K	0.04	0.08	O.k	589620.00	1.17	0.10	0.12	55.84	0.09	0.01	0.34	O.k	0.09
982.70	189798538456.60	0.15	4.10	O.K	0.04	0.08	O.k	589620.00	1.17	0.10	0.12	55.84	0.09	0.01	0.34	O.k	0.09
2276.00	2358016115200.00	0.10	4.10	O.K	0.03	0.06	O.k	1365600.00	1.72	0.10	0.12	116.40	0.09	0.00	0.34	O.k	0.02
2276.00	2358016115200.00	0.10	4.10	O.K	0.03	0.06	O.k	1365600.00	1.72	0.10	0.12	116.40	0.09	0.00	0.34	O.k	0.02
2276.00	2358016115200.00	0.10	4.10	O.K	0.03	0.06	O.k	1365600.00	1.72	0.10	0.12	116.40	0.09	0.00	0.34	O.k	0.02
1365.75	441566092085.63	0.11	4.10	O.K	0.03	0.06	O.k	710190.00	0.90	0.10	0.12	56.59	0.08	0.01	0.34	O.k	0.06
1365.75	441566092085.63	0.11	4.10	O.K	0.03	0.06	O.k	710190.00	0.90	0.10	0.12	56.59	0.08	0.01	0.34	O.k	0.06
1365.75	441566092085.63	0.11	4.10	O.K	0.03	0.06	O.k	710190.00	0.90	0.10	0.12	56.59	0.08	0.01	0.34	O.k	0.06
717.05	73735786345.53	0.10	4.10	O.K	0.02	0.06	O.k	430230.00	1.95	0.10	0.12	34.90	0.08	0.00	0.34	O.k	0.01
717.05	73735786345.53	0.10	4.10	O.K	0.02	0.06	O.k	430230.00	1.95	0.10	0.12	34.90	0.08	0.00	0.34	O.k	0.01
717.05	73735786345.53	0.10	4.10	O.K	0.02	0.06	O.k	430230.00	1.95	0.10	0.12	34.90	0.08	0.00	0.34	O.k	0.01
367.65	9938794399.43	0.10	4.10	O.K	0.03	0.06	O.k	220590.00	3.54	0.10	0.12	17.63	0.08	0.00	0.34	O.k	0.01
367.65	9938794399.43	0.10	4.10	O.K	0.03	0.06	O.k	220590.00	3.54	0.10	0.12	17.63	0.08	0.00	0.34	O.k	0.01
367.65	9938794399.43	0.10	4.10	O.K	0.03	0.06	O.k	220590.00	3.54	0.10	0.12	17.63	0.08	0.00	0.34	O.k	0.01
808.65	49353567313.37	0.13	4.10	O.K	0.03	0.10	O.k	226422.00	1.13	0.10	0.12	20.41	0.09	0.01	0.34	O.k	0.06
808.65	49353567313.37	0.13	4.10	O.K	0.03	0.10	O.k	226422.00	1.13	0.10	0.12	20.41	0.09	0.01	0.34	O.k	0.06
808.65	49353567313.37	0.13	4.10	O.K	0.03	0.10	O.k	226422.00	1.13	0.10	0.12	20.41	0.09	0.01	0.34	O.k	0.06
1065.90	242202924235.80	0.09	4.10	O.K	0.02	0.06	O.k	639540.00	2.07	0.10	0.12	50.94	0.08	0.00	0.34	O.k	0.01
1065.90	242202924235.80	0.09	4.10	O.K	0.02	0.06	O.k	639540.00	2.07	0.10	0.12	50.94	0.08	0.00	0.34	O.k	0.01
1065.90	242202924235.80	0.09	4.10	O.K	0.02	0.06	O.k	639540.00	2.07	0.10	0.12	50.94	0.08	0.00	0.34	O.k	0.01
1254.00	184047272640.00	0.09	4.10	O.K	0.02	0.08	O.k	351120.00	1.07	0.10	0.12	28.42	0.08	0.00	0.34	O.k	0.02
1254.00	184047272640.00	0.09	4.10	O.K	0.02	0.08	O.k	351120.00	1.07	0.10	0.12	28.42	0.08	0.00	0.34	O.k	0.02
1254.00	184047272640.00	0.09	4.10	O.K	0.02	0.08	O.k	351120.00	1.07	0.10	0.12	28.42	0.08	0.00	0.34	O.k	0.02
798.00	50816959200.00	0.13	4.10	O.K	0.03	0.08	O.k	239400.00	1.51	0.10	0.12	19.13	0.08	0.01	0.34	O.k	0.06
798.00	50816959200.00	0.13	4.10	O.K	0.03	0.08	O.k	239400.00	1.51	0.10	0.12	19.13	0.08	0.01	0.34	O.k	0.06
798.00	50816959200.00	0.13	4.10	O.K	0.03	0.08	O.k	239400.00	1.51	0.10	0.12	19.13	0.08	0.01	0.34	O.k	0.06
699.96	68586770850.48	0.09	4.10	O.K	0.02	0.06	O.k	419973.00	2.13	0.10	0.12	33.93	0.08	0.00	0.34	O.k	0.01
699.96	68586770850.48	0.09	4.10	O.K	0.02	0.06	O.k	419973.00	2.13	0.10	0.12	33.93	0.08	0.00	0.34	O.k	0.01
699.96	68586770850.48	0.09	4.10	O.K	0.02	0.06	O.k	419973.00	2.13	0.10	0.12	33.93	0.08	0.00	0.34	O.k	0.01
1254.00	223485973920.00	0.09	4.10	O.K	0.02	0.07	O.k	426360.00	0.43	0.10	0.12	35.98	0.08	0.00	0.34	O.k	0.02
1254.00	223485973920.00	0.09	4.10	O.K	0.02	0.07	O.k	426360.00	0.43	0.10	0.12	35.98	0.08	0.00	0.34	O.k	0.02
1254.00	223485973920.00	0.09	4.10	O.K	0.02	0.07	O.k	426360.00	0.43	0.10	0.12	35.98	0.08	0.00	0.34	O.k	0.02
1430.70	292850339244.30	0.12	4.10	O.K	0.03	0.09	O.k	429210.00	0.72	0.10	0.12	36.68	0.09	0.01	0.34	O.k	0.09
1430.70	292850339244.30	0.12	4.10	O.K	0.03	0.09	O.k	429210.00	0.72	0.10	0.12	36.68	0.09	0.01	0.34	O.k	0.09
1430.70	292850339244.30	0.12	4.10	O.K	0.03	0.09	O.k	429210.00	0.72	0.10	0.12	36.68	0.09	0.01	0.34	O.k	0.09
222.30	2197092713.40	0.28	4.10	O.K	0.07	0.11	O.k	133380.00	5.46	0.10	0.12	11.63	0.09	0.01	0.34	O.k	0.08
222.30	2197092713.40	0.28	4.10	O.K	0.07	0.11	O.k	133380.00	5.46	0.10	0.12	11.63	0.09	0.01	0.34	O.k	0.08
222.30	2197092713.40	0.28	4.10	O.K	0.07	0.11	O.k	133380.00	5.46	0.10	0.12	11.63	0.09	0.01	0.34	O.k	0.08

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640.11	26227919123.33	0.17	4.10	O.K	0.04	0.13	O.k	192033.00	2.43	0.10	0.13	25.58	0.13	0.00	0.34	O.k	0.02
640.11	26227919123.33	0.17	4.10	O.K	0.04	0.13	O.k	192033.00	2.43	0.10	0.13	25.58	0.13	0.00	0.34	O.k	0.02
640.11	26227919123.33	0.17	4.10	O.K	0.04	0.13	O.k	192033.00	2.43	0.10	0.13	25.58	0.13	0.00	0.34	O.k	0.02
153.85	291328175.33	0.27	4.10	O.K	0.07	0.16	O.k	36924.00	7.83	0.10	0.12	3.53	0.10	0.01	0.34	O.k	0.05
153.85	291328175.33	0.27	4.10	O.K	0.07	0.16	O.k	36924.00	7.83	0.10	0.12	3.53	0.10	0.01	0.34	O.k	0.05
153.85	291328175.33	0.27	4.10	O.K	0.07	0.16	O.k	36924.00	7.83	0.10	0.12	3.53	0.10	0.01	0.34	O.k	0.05
1556.10	376801400348.10	0.12	4.10	O.K	0.03	0.09	O.k	466830.00	0.39	0.10	0.12	44.67	0.10	0.01	0.34	O.k	0.10
1556.10	376801400348.10	0.12	4.10	O.K	0.03	0.09	O.k	466830.00	0.39	0.10	0.12	44.67	0.10	0.01	0.34	O.k	0.10
1556.10	376801400348.10	0.12	4.10	O.K	0.03	0.09	O.k	466830.00	0.39	0.10	0.12	44.67	0.10	0.01	0.34	O.k	0.10
507.30	40036966031.88	0.11	4.10	O.K	0.03	0.06	O.k	466716.00	2.42	0.10	0.12	37.13	0.08	0.00	0.34	O.k	0.03
507.30	40036966031.88	0.11	4.10	O.K	0.03	0.06	O.k	466716.00	2.42	0.10	0.12	37.13	0.08	0.00	0.34	O.k	0.03
507.30	40036966031.88	0.11	4.10	O.K	0.03	0.06	O.k	466716.00	2.42	0.10	0.12	37.13	0.08	0.00	0.34	O.k	0.03
507.30	60925817874.60	0.09	4.10	O.K	0.02	0.05	O.k	710220.00	2.08	0.10	0.12	54.79	0.08	0.00	0.34	O.k	0.01
507.30	60925817874.60	0.09	4.10	O.K	0.02	0.05	O.k	710220.00	2.08	0.10	0.12	54.79	0.08	0.00	0.34	O.k	0.01
507.30	60925817874.60	0.09	4.10	O.K	0.02	0.05	O.k	710220.00	2.08	0.10	0.12	54.79	0.08	0.00	0.34	O.k	0.01
85.50	75003165.00	4.18	4.10	N.C	1.02	1.17	N.C	30780.00	14.21	0.10	0.15	7.26	0.24	0.07	0.34	O.k	0.48
85.50	75003165.00	4.18	4.10	N.C	1.02	1.17	N.C	30780.00	14.21	0.10	0.15	7.26	0.24	0.07	0.34	O.k	0.48
85.50	75003165.00	4.18	4.10	N.C	1.02	1.17	N.C	30780.00	14.21	0.10	0.15	7.26	0.24	0.07	0.34	O.k	0.48
776.28	56134265673.10	0.09	4.10	O.K	0.02	0.07	O.k	279459.00	1.36	0.10	0.12	24.42	0.09	0.00	0.34	O.k	0.00
776.28	56134265673.10	0.09	4.10	O.K	0.02	0.07	O.k	279459.00	1.36	0.10	0.12	24.42	0.09	0.00	0.34	O.k	0.00
776.28	56134265673.10	0.09	4.10	O.K	0.02	0.07	O.k	279459.00	1.36	0.10	0.12	24.42	0.09	0.00	0.34	O.k	0.00
540.58	16849871552.28	0.15	4.10	O.K	0.04	0.13	O.k	172984.00	1.08	0.10	0.13	23.91	0.14	0.00	0.34	O.k	0.01
540.58	16849871552.28	0.15	4.10	O.K	0.04	0.13	O.k	172984.00	1.08	0.10	0.13	23.91	0.14	0.00	0.34	O.k	0.01
540.58	16849871552.28	0.15	4.10	O.K	0.04	0.13	O.k	172984.00	1.08	0.10	0.13	23.91	0.14	0.00	0.34	O.k	0.01
244.20	1553337054.72	0.10	4.10	O.K	0.02	0.08	O.k	78144.00	4.51	0.10	0.12	6.45	0.08	0.00	0.34	O.k	0.01
244.20	1553337054.72	0.10	4.10	O.K	0.02	0.08	O.k	78144.00	4.51	0.10	0.12	6.45	0.08	0.00	0.34	O.k	0.01
244.20	1553337054.72	0.10	4.10	O.K	0.02	0.08	O.k	78144.00	4.51	0.10	0.12	6.45	0.08	0.00	0.34	O.k	0.01
1254.00	433825714080.00	0.09	4.10	O.K	0.02	0.06	O.k	827640.00	1.30	0.10	0.12	65.48	0.08	0.00	0.34	O.k	0.02
1254.00	433825714080.00	0.09	4.10	O.K	0.02	0.06	O.k	827640.00	1.30	0.10	0.12	65.48	0.08	0.00	0.34	O.k	0.02
1254.00	433825714080.00	0.09	4.10	O.K	0.02	0.06	O.k	827640.00	1.30	0.10	0.12	65.48	0.08	0.00	0.34	O.k	0.02
1749.90	1071691260499.80	0.09	4.10	O.K	0.02	0.06	O.k	1049940.00	0.74	0.10	0.12	80.48	0.08	0.00	0.34	O.k	0.04
1749.90	1071691260499.80	0.09	4.10	O.K	0.02	0.06	O.k	1049940.00	0.74	0.10	0.12	80.48	0.08	0.00	0.34	O.k	0.04
1749.90	1071691260499.80	0.09	4.10	O.K	0.02	0.06	O.k	1049940.00	0.74	0.10	0.12	80.48	0.08	0.00	0.34	O.k	0.04
1254.00	236632207680.00	0.09	4.10	O.K	0.02	0.07	O.k	451440.00	1.08	0.10	0.12	37.29	0.08	0.00	0.34	O.k	0.01
1254.00	236632207680.00	0.09	4.10	O.K	0.02	0.07	O.k	451440.00	1.08	0.10	0.12	37.29	0.08	0.00	0.34	O.k	0.01
1254.00	236632207680.00	0.09	4.10	O.K	0.02	0.07	O.k	451440.00	1.08	0.10	0.12	37.29	0.08	0.00	0.34	O.k	0.01
507.30	13925901228.48	0.14	4.10	O.K	0.03	0.09	O.k	162336.00	2.12	0.10	0.12	14.68	0.09	0.01	0.34	O.k	0.05
507.30	13925901228.48	0.14	4.10	O.K	0.03	0.09	O.k	162336.00	2.12	0.10	0.12	14.68	0.09	0.01	0.34	O.k	0.05
507.30	13925901228.48	0.14	4.10	O.K	0.03	0.09	O.k	162336.00	2.12	0.10	0.12	14.68	0.09	0.01	0.34	O.k	0.05
644.10	28502871906.24	0.12	4.10	O.K	0.03	0.09	O.k	206112.00	2.03	0.10	0.12	18.14	0.09	0.00	0.34	O.k	0.03
644.10	28502871906.24	0.12	4.10	O.K	0.03	0.09	O.k	206112.00	2.03	0.10	0.12	18.14	0.09	0.00	0.34	O.k	0.03
644.10	28502871906.24	0.12	4.10	O.K	0.03	0.09	O.k	206112.00	2.03	0.10	0.12	18.14	0.09	0.00	0.34	O.k	0.03

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228.00	2370470400.00	0.15	4.10	O.K	0.04	0.08	O.k	136800.00	5.41	0.10	0.12	11.88	0.09	0.00	0.34	O.k	0.02
228.00	2370470400.00	0.15	4.10	O.K	0.04	0.08	O.k	136800.00	5.41	0.10	0.12	11.88	0.09	0.00	0.34	O.k	0.02
228.00	2370470400.00	0.15	4.10	O.K	0.04	0.08	O.k	136800.00	5.41	0.10	0.12	11.88	0.09	0.00	0.34	O.k	0.02
210.65	1869452289.93	0.13	4.10	O.K	0.03	0.07	O.k	126390.00	5.59	0.10	0.12	11.14	0.09	0.00	0.34	O.k	0.02
210.65	1869452289.93	0.13	4.10	O.K	0.03	0.07	O.k	126390.00	5.59	0.10	0.12	11.14	0.09	0.00	0.34	O.k	0.02
210.65	1869452289.93	0.13	4.10	O.K	0.03	0.07	O.k	126390.00	5.59	0.10	0.12	11.14	0.09	0.00	0.34	O.k	0.02
391.55	12005815929.78	0.11	4.10	O.K	0.03	0.06	O.k	234930.00	2.83	0.10	0.12	18.06	0.08	0.00	0.34	O.k	0.03
391.55	12005815929.78	0.11	4.10	O.K	0.03	0.06	O.k	234930.00	2.83	0.10	0.12	18.06	0.08	0.00	0.34	O.k	0.03
391.55	12005815929.78	0.11	4.10	O.K	0.03	0.06	O.k	234930.00	2.83	0.10	0.12	18.06	0.08	0.00	0.34	O.k	0.03
626.10	49086391516.20	0.09	4.10	O.K	0.02	0.06	O.k	375660.00	3.00	0.10	0.12	29.05	0.08	0.00	0.34	O.k	0.01
626.10	49086391516.20	0.09	4.10	O.K	0.02	0.06	O.k	375660.00	3.00	0.10	0.12	29.05	0.08	0.00	0.34	O.k	0.01
626.10	49086391516.20	0.09	4.10	O.K	0.02	0.06	O.k	375660.00	3.00	0.10	0.12	29.05	0.08	0.00	0.34	O.k	0.01
1242.60	204655194109.44	0.10	4.10	O.K	0.02	0.08	O.k	397632.00	0.16	0.10	0.12	37.31	0.09	0.00	0.34	O.k	0.03
1242.60	204655194109.44	0.10	4.10	O.K	0.02	0.08	O.k	397632.00	0.16	0.10	0.12	37.31	0.09	0.00	0.34	O.k	0.03
1242.60	204655194109.44	0.10	4.10	O.K	0.02	0.08	O.k	397632.00	0.16	0.10	0.12	37.31	0.09	0.00	0.34	O.k	0.03
337.20	7668186969.60	0.10	4.10	O.K	0.02	0.06	O.k	202320.00	4.10	0.10	0.12	16.43	0.08	0.00	0.34	O.k	0.01
337.20	7668186969.60	0.10	4.10	O.K	0.02	0.06	O.k	202320.00	4.10	0.10	0.12	16.43	0.08	0.00	0.34	O.k	0.01
337.20	7668186969.60	0.10	4.10	O.K	0.02	0.06	O.k	202320.00	4.10	0.10	0.12	16.43	0.08	0.00	0.34	O.k	0.01
421.80	15008929646.40	0.09	4.10	O.K	0.02	0.06	O.k	253080.00	0.03	0.10	0.12	20.89	0.08	0.00	0.34	O.k	0.00
421.80	15008929646.40	0.09	4.10	O.K	0.02	0.06	O.k	253080.00	0.03	0.10	0.12	20.89	0.08	0.00	0.34	O.k	0.00
421.80	15008929646.40	0.08	4.10	O.K	0.02	0.06	O.k	253080.00	0.03	0.10	0.12	20.89	0.08	0.00	0.34	O.k	0.00
1179.90	131409145231.92	0.13	4.10	O.K	0.03	0.13	O.k	283176.00	0.52	0.10	0.12	28.07	0.10	0.01	0.34	O.k	0.08
1179.90	131409145231.92	0.13	4.10	O.K	0.03	0.13	O.k	283176.00	0.52	0.10	0.12	28.07	0.10	0.01	0.34	O.k	0.08
1179.90	131409145231.92	0.13	4.10	O.K	0.03	0.13	O.k	283176.00	0.52	0.10	0.12	28.07	0.10	0.01	0.34	O.k	0.08
674.35	61331852307.58	0.15	4.10	O.K	0.04	0.09	O.k	404610.00	1.47	0.10	0.12	42.55	0.11	0.01	0.34	O.k	0.06
674.35	61331852307.58	0.15	4.10	O.K	0.04	0.09	O.k	404610.00	1.47	0.10	0.12	42.55	0.11	0.01	0.34	O.k	0.06
674.35	61331852307.58	0.15	4.10	O.K	0.04	0.09	O.k	404610.00	1.47	0.10	0.12	42.55	0.11	0.01	0.34	O.k	0.06
294.65	5116221423.93	0.30	4.10	O.K	0.07	0.12	O.k	176790.00	4.03	0.10	0.12	18.21	0.10	0.01	0.34	O.k	0.10
294.65	5116221423.93	0.30	4.10	O.K	0.07	0.12	O.k	176790.00	4.03	0.10	0.12	18.21	0.10	0.01	0.34	O.k	0.10
294.65	5116221423.93	0.30	4.10	O.K	0.07	0.12	O.k	176790.00	4.03	0.10	0.12	18.21	0.10	0.01	0.34	O.k	0.10
2223.00	2197092713400.00	0.11	4.10	O.K	0.03	0.07	O.k	1333800.00	0.89	0.10	0.12	119.81	0.09	0.00	0.34	O.k	0.04
2223.00	2197092713400.00	0.11	4.10	O.K	0.03	0.07	O.k	1333800.00	0.89	0.10	0.12	119.81	0.09	0.00	0.34	O.k	0.04
2223.00	2197092713400.00	0.11	4.10	O.K	0.03	0.07	O.k	1333800.00	0.89	0.10	0.12	119.81	0.09	0.00	0.34	O.k	0.04
455.95	20221360857.57	0.21	4.10	O.K	0.05	0.09	O.k	291808.00	2.53	0.10	0.12	27.10	0.09	0.01	0.34	O.k	0.10
455.95	20221360857.57	0.21	4.10	O.K	0.05	0.09	O.k	291808.00	2.53	0.10	0.12	27.10	0.09	0.01	0.34	O.k	0.10
455.95	20221360857.57	0.21	4.10	O.K	0.05	0.09	O.k	291808.00	2.53	0.10	0.12	27.10	0.09	0.01	0.34	O.k	0.10

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467.40	21783358725.12	0.32	4.10	O.K	0.08	0.15	O.k	299136.00	2.47	0.10	0.13	43.76	0.15	0.02	0.34	O.k	0.12
467.40	21783358725.12	0.32	4.10	O.K	0.08	0.15	O.k	299136.00	2.47	0.10	0.13	43.76	0.15	0.02	0.34	O.k	0.12
467.40	21783358725.12	0.32	4.10	O.K	0.08	0.15	O.k	299136.00	2.47	0.10	0.13	43.76	0.15	0.02	0.34	O.k	0.12
359.10	9261390814.20	0.10	4.10	O.K	0.02	0.06	O.k	215460.00	2.61	0.10	0.12	18.10	0.08	0.00	0.34	O.k	0.01
359.10	9261390814.20	0.10	4.10	O.K	0.02	0.06	O.k	215460.00	2.61	0.10	0.12	18.10	0.08	0.00	0.34	O.k	0.01
359.10	9261390814.20	0.10	4.10	O.K	0.02	0.06	O.k	215460.00	2.61	0.10	0.12	18.10	0.08	0.00	0.34	O.k	0.01
695.40	67256467732.80	0.10	4.10	O.K	0.02	0.06	O.k	417240.00	1.82	0.10	0.12	29.28	0.07	0.00	0.34	O.k	0.03
695.40	67256467732.80	0.10	4.10	O.K	0.03	0.06	O.k	417240.00	1.83	0.10	0.12	29.28	0.07	0.01	0.34	O.k	0.04
695.40	67256467732.80	0.10	4.10	O.K	0.03	0.06	O.k	417240.00	1.83	0.10	0.12	29.28	0.07	0.01	0.34	O.k	0.04
2658.45	4759680785817.29	0.10	4.10	O.K	0.02	0.06	O.k	2020422.00	0.95	0.10	0.12	159.99	0.08	0.01	0.34	O.k	0.05
2658.45	4759680785817.29	0.10	4.10	O.K	0.02	0.06	O.k	2020422.00	0.95	0.10	0.12	159.99	0.08	0.01	0.34	O.k	0.05
2658.45	4759680785817.29	0.10	4.10	O.K	0.02	0.06	O.k	2020422.00	0.95	0.10	0.12	159.99	0.08	0.01	0.34	O.k	0.05
387.00	11592120600.00	0.28	4.10	O.K	0.07	0.11	O.k	232200.00	3.08	0.10	0.12	19.87	0.09	0.02	0.34	O.k	0.14
387.00	11592120600.00	0.28	4.10	O.K	0.07	0.11	O.k	232200.00	3.08	0.10	0.12	19.87	0.09	0.02	0.34	O.k	0.14
387.00	11592120600.00	0.28	4.10	O.K	0.07	0.11	O.k	232200.00	3.08	0.10	0.12	19.87	0.09	0.02	0.34	O.k	0.14
1413.31	263478063519.66	0.18	4.10	O.K	0.04	0.14	O.k	395725.40	0.62	0.10	0.13	48.70	0.12	0.02	0.34	O.k	0.15
1413.31	263478063519.66	0.18	4.10	O.K	0.04	0.14	O.k	395725.40	0.62	0.10	0.13	48.70	0.12	0.02	0.34	O.k	0.15
1413.31	263478063519.66	0.18	4.10	O.K	0.04	0.14	O.k	395725.40	0.62	0.10	0.13	48.70	0.12	0.02	0.34	O.k	0.15
773.90	117421298186.15	0.17	4.10	O.K	0.04	0.08	O.k	588164.00	1.26	0.10	0.12	52.44	0.09	0.02	0.34	O.k	0.13
773.90	117421298186.15	0.17	4.10	O.K	0.04	0.08	O.k	588164.00	1.26	0.10	0.12	52.44	0.09	0.02	0.34	O.k	0.13
773.90	117421298186.15	0.17	4.10	O.K	0.04	0.08	O.k	588164.00	1.26	0.10	0.12	52.44	0.09	0.02	0.34	O.k	0.13
1345.20	519301162967.04	0.14	4.10	O.K	0.03	0.08	O.k	860928.00	0.80	0.10	0.12	92.17	0.11	0.01	0.34	O.k	0.06
1345.20	519301162967.04	0.14	4.10	O.K	0.03	0.08	O.k	860928.00	0.80	0.10	0.12	92.17	0.11	0.01	0.34	O.k	0.06
1345.20	519301162967.04	0.14	4.10	O.K	0.03	0.08	O.k	860928.00	0.80	0.10	0.12	92.17	0.11	0.01	0.34	O.k	0.06
1065.90	242202924235.80	0.14	4.10	O.K	0.04	0.09	O.k	639540.00	0.97	0.10	0.12	67.58	0.11	0.01	0.34	O.k	0.07
1065.90	242202924235.80	0.14	4.10	O.K	0.04	0.09	O.k	639540.00	0.97	0.10	0.12	67.58	0.11	0.01	0.34	O.k	0.07
1065.90	242202924235.80	0.14	4.10	O.K	0.04	0.09	O.k	639540.00	0.97	0.10	0.12	67.58	0.11	0.01	0.34	O.k	0.07

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Índice de sobreesfuerzo a Cortante

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ELEMENTOS - ANALISIS COMO MAMPOSTERIA NO REFORZADA - TABLA 1 DE 2 - CARGAS GRAVITACIONALES + SISMO

STORY	MURO	TIPO DE COMBINACION	SOLICITACIONES			CARACTERISTICAS DEL MURO								COMPRESION AXIAL				INDICE SOBRE ESFUERZO
			axial	Momento	Cortante	t	L	h'	d	h'/t	σ_c	σ_e	$\sigma_c \sigma_e f_m$	Re	fa	Fa adm	fa <= Fa adm	
			(kN)	(kN.m)	(kN)	mm	mm	mm	mm				(Mpa)		(Mpa)	(Mpa)		
NE+3.8955	P1	AXIAL	41.78	52.63	15.08	320.00	1159.42	3895.50	1159.42	12.17	1.00	1.00	9.35	0.92	0.113	2.28	O.K	0.05
NE+3.8955	P1	CORTANTE	41.29	69.22	19.45	320.00	1159.42	3895.50	1159.42	12.17	1.00	1.00	9.35	0.92	0.111	2.28	O.K	0.05
NE+3.8955	P1	MOMENTO	41.29	69.22	19.45	320.00	1159.42	3895.50	1159.42	12.17	1.00	1.00	9.35	0.92	0.111	2.28	O.K	0.05
NE+3.8955	P2	AXIAL	39.81	37.97	9.49	320.00	1126.32	3895.50	1126.32	12.17	1.00	1.00	9.35	0.92	0.110	2.28	O.K	0.05
NE+3.8955	P2	CORTANTE	34.96	58.43	16.41	320.00	1126.32	3895.50	1126.32	12.17	1.00	1.00	9.35	0.92	0.097	2.28	O.K	0.04
NE+3.8955	P2	MOMENTO	34.96	58.43	16.41	320.00	1126.32	3895.50	1126.32	12.17	1.00	1.00	9.35	0.92	0.097	2.28	O.K	0.04
NE+3.8955	P3	AXIAL	48.99	87.94	42.30	120.00	1359.90	3895.50	1359.90	32.46	1.00	1.00	9.35	0.42	0.300	1.04	O.K	0.29
NE+3.8955	P3	CORTANTE	48.99	87.94	42.30	120.00	1359.90	3895.50	1359.90	32.46	1.00	1.00	9.35	0.42	0.300	1.04	O.K	0.29
NE+3.8955	P3	MOMENTO	48.99	87.94	42.30	120.00	1359.90	3895.50	1359.90	32.46	1.00	1.00	9.35	0.42	0.300	1.04	O.K	0.29
NE+3.8955	P4	AXIAL	72.39	126.43	35.35	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.113	2.25	O.K	0.05
NE+3.8955	P4	CORTANTE	69.13	165.64	45.31	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.108	2.25	O.K	0.05
NE+3.8955	P4	MOMENTO	69.13	165.64	45.31	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.108	2.25	O.K	0.05
NE+3.8955	P5	AXIAL	56.35	31.62	14.51	120.00	1185.60	3895.50	1185.60	32.46	1.00	1.00	9.35	0.42	0.396	1.04	O.K	0.38
NE+3.8955	P5	CORTANTE	29.49	33.03	15.18	120.00	1185.60	3895.50	1185.60	32.46	1.00	1.00	9.35	0.42	0.207	1.04	O.K	0.20
NE+3.8955	P5	MOMENTO	29.49	33.03	15.18	120.00	1185.60	3895.50	1185.60	32.46	1.00	1.00	9.35	0.42	0.207	1.04	O.K	0.20
NE+3.8955	P6	AXIAL	296.84	1576.80	499.49	320.00	6589.10	3895.50	6589.10	12.17	1.00	1.00	9.35	0.92	0.141	2.28	O.K	0.06
NE+3.8955	P6	CORTANTE	88.16	1564.49	509.06	320.00	6589.10	3895.50	6589.10	12.17	1.00	1.00	9.35	0.92	0.042	2.28	O.K	0.02
NE+3.8955	P6	MOMENTO	296.84	1576.80	499.49	320.00	6589.10	3895.50	6589.10	12.17	1.00	1.00	9.35	0.92	0.141	2.28	O.K	0.06
NE+3.8955	P7	AXIAL	55.44	23.88	10.05	300.00	897.70	3895.50	897.70	12.99	1.00	1.00	9.35	0.90	0.206	2.25	O.K	0.09
NE+3.8955	P7	CORTANTE	3.14	27.22	11.08	300.00	897.70	3895.50	897.70	12.99	1.00	1.00	9.35	0.90	0.012	2.25	O.K	0.01
NE+3.8955	P7	MOMENTO	3.14	27.22	11.08	300.00	897.70	3895.50	897.70	12.99	1.00	1.00	9.35	0.90	0.012	2.25	O.K	0.01
NE+3.8955	P8	AXIAL	30.22	17.71	5.34	300.00	1060.20	3895.50	1060.20	12.99	1.00	1.00	9.35	0.90	0.095	2.25	O.K	0.04
NE+3.8955	P8	CORTANTE	27.50	25.81	8.03	300.00	1060.20	3895.50	1060.20	12.99	1.00	1.00	9.35	0.90	0.086	2.25	O.K	0.04
NE+3.8955	P8	MOMENTO	27.50	25.81	8.03	300.00	1060.20	3895.50	1060.20	12.99	1.00	1.00	9.35	0.90	0.086	2.25	O.K	0.04
NE+3.8955	P9	AXIAL	22.71	8.80	3.00	280.00	798.00	3895.50	798.00	13.91	1.00	1.00	9.35	0.89	0.102	2.21	O.K	0.05
NE+3.8955	P9	CORTANTE	22.53	11.43	3.83	280.00	798.00	3895.50	798.00	13.91	1.00	1.00	9.35	0.89	0.101	2.21	O.K	0.05
NE+3.8955	P9	MOMENTO	22.53	11.43	3.83	280.00	798.00	3895.50	798.00	13.91	1.00	1.00	9.35	0.89	0.101	2.21	O.K	0.05
NE+3.8955	P10	AXIAL	45.62	8.18	3.95	280.00	473.10	3895.50	473.10	13.91	1.00	1.00	9.35	0.89	0.344	2.21	O.K	0.16
NE+3.8955	P10	CORTANTE	24.66	11.01	5.40	280.00	473.10	3895.50	473.10	13.91	1.00	1.00	9.35	0.89	0.186	2.21	O.K	0.08
NE+3.8955	P10	MOMENTO	24.66	11.01	5.40	280.00	473.10	3895.50	473.10	13.91	1.00	1.00	9.35	0.89	0.186	2.21	O.K	0.08
NE+3.8955	P11	AXIAL	36.45	71.77	29.04	210.00	1290.60	3895.50	1290.60	18.55	1.00	1.00	9.35	0.80	0.134	2.00	O.K	0.07
NE+3.8955	P11	CORTANTE	7.22	72.99	29.60	210.00	1290.60	3895.50	1290.60	18.55	1.00	1.00	9.35	0.80	0.027	2.00	O.K	0.01
NE+3.8955	P11	MOMENTO	7.22	72.99	29.60	210.00	1290.60	3895.50	1290.60	18.55	1.00	1.00	9.35	0.80	0.027	2.00	O.K	0.01
NE+3.8955	P12	AXIAL	93.09	151.18	68.40	210.00	1539.00	3895.50	1539.00	18.55	1.00	1.00	9.35	0.80	0.288	2.00	O.K	0.14
NE+3.8955	P12	CORTANTE	93.09	151.18	68.40	210.00	1539.00	3895.50	1539.00	18.55	1.00	1.00	9.35	0.80	0.288	2.00	O.K	0.14
NE+3.8955	P12	MOMENTO	93.09	151.18	68.40	210.00	1539.00	3895.50	1539.00	18.55	1.00	1.00	9.35	0.80	0.288	2.00	O.K	0.14
NE+3.8955	P13	AXIAL	83.32	119.15	48.43	120.00	2599.20	3895.50	2599.20	32.46	1.00	1.00	9.35	0.42	0.267	1.04	O.K	0.26
NE+3.8955	P13	CORTANTE	83.32	119.15	48.43	120.00	2599.20	3895.50	2599.20	32.46	1.00	1.00	9.35	0.42	0.267	1.04	O.K	0.26
NE+3.8955	P13	MOMENTO	83.32	119.15	48.43	120.00	2599.20	3895.50	2599.20	32.46	1.00	1.00	9.35	0.42	0.267	1.04	O.K	0.26
NE+3.8955	P14	AXIAL	188.55	624.78	223.82	300.00	3539.50	3895.50	3539.50	12.99	1.00	1.00	9.35	0.90	0.178	2.25	O.K	0.08
NE+3.8955	P14	CORTANTE	188.55	624.78	223.82	300.00	3539.50	3895.50	3539.50	12.99	1.00	1.00	9.35	0.90	0.178	2.25	O.K	0.08
NE+3.8955	P14	MOMENTO	0.43	627.36	222.79	300.00	3539.50	3895.50	3539.50	12.99	1.00	1.00	9.35	0.90	0.000	2.25	O.K	0.00

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NE+3.8955	P15	AXIAL	76.17	51.45	25.23	120.00	1811.50	3895.50	1811.50	32.46	1.00	1.00	9.35	0.42	0.350	1.04	O.K	0.34
NE+3.8955	P15	CORTANTE	33.40	58.71	29.29	120.00	1811.50	3895.50	1811.50	32.46	1.00	1.00	9.35	0.42	0.154	1.04	O.K	0.15
NE+3.8955	P15	MOMENTO	22.09	61.32	27.57	120.00	1811.50	3895.50	1811.50	32.46	1.00	1.00	9.35	0.42	0.102	1.04	O.K	0.10
NE+3.8955	P16	AXIAL	155.99	121.59	50.37	300.00	1965.40	3895.50	1965.40	12.99	1.00	1.00	9.35	0.90	0.265	2.25	O.K	0.12
NE+3.8955	P16	CORTANTE	38.46	165.84	67.07	300.00	1965.40	3895.50	1965.40	12.99	1.00	1.00	9.35	0.90	0.065	2.25	O.K	0.03
NE+3.8955	P16	MOMENTO	38.46	165.84	67.07	300.00	1965.40	3895.50	1965.40	12.99	1.00	1.00	9.35	0.90	0.065	2.25	O.K	0.03
NE+3.8955	P17	AXIAL	236.84	575.46	158.52	300.00	4552.00	3895.50	4552.00	12.99	1.00	1.00	9.35	0.90	0.173	2.25	O.K	0.08
NE+3.8955	P17	CORTANTE	20.17	766.24	209.76	300.00	4552.00	3895.50	4552.00	12.99	1.00	1.00	9.35	0.90	0.015	2.25	O.K	0.01
NE+3.8955	P17	MOMENTO	20.17	766.24	209.76	300.00	4552.00	3895.50	4552.00	12.99	1.00	1.00	9.35	0.90	0.015	2.25	O.K	0.01
NE+3.8955	P18	AXIAL	183.58	254.19	111.38	260.00	2731.50	3895.50	2731.50	14.98	1.00	1.00	9.35	0.87	0.258	2.17	O.K	0.12
NE+3.8955	P18	CORTANTE	45.05	324.13	144.50	260.00	2731.50	3895.50	2731.50	14.98	1.00	1.00	9.35	0.87	0.063	2.17	O.K	0.03
NE+3.8955	P18	MOMENTO	45.05	324.13	144.50	260.00	2731.50	3895.50	2731.50	14.98	1.00	1.00	9.35	0.87	0.063	2.17	O.K	0.03
NE+3.8955	P19	AXIAL	119.29	99.83	40.75	300.00	1434.10	3895.50	1434.10	12.99	1.00	1.00	9.35	0.90	0.277	2.25	O.K	0.12
NE+3.8955	P19	CORTANTE	41.64	115.11	44.31	300.00	1434.10	3895.50	1434.10	12.99	1.00	1.00	9.35	0.90	0.097	2.25	O.K	0.04
NE+3.8955	P19	MOMENTO	41.64	115.11	44.31	300.00	1434.10	3895.50	1434.10	12.99	1.00	1.00	9.35	0.90	0.097	2.25	O.K	0.04
NE+3.8955	P20	AXIAL	20.29	7.97	2.41	300.00	735.30	3895.50	735.30	12.99	1.00	1.00	9.35	0.90	0.092	2.25	O.K	0.04
NE+3.8955	P20	CORTANTE	15.02	8.92	2.90	300.00	735.30	3895.50	735.30	12.99	1.00	1.00	9.35	0.90	0.068	2.25	O.K	0.03
NE+3.8955	P20	MOMENTO	15.02	8.92	2.90	300.00	735.30	3895.50	735.30	12.99	1.00	1.00	9.35	0.90	0.068	2.25	O.K	0.03
NE+3.8955	P21	AXIAL	54.58	57.55	24.37	140.00	1617.30	3895.50	1617.30	27.83	1.00	1.00	9.35	0.56	0.241	1.40	O.K	0.17
NE+3.8955	P21	CORTANTE	54.58	57.55	24.37	140.00	1617.30	3895.50	1617.30	27.83	1.00	1.00	9.35	0.56	0.241	1.40	O.K	0.17
NE+3.8955	P21	MOMENTO	54.58	57.55	24.37	140.00	1617.30	3895.50	1617.30	27.83	1.00	1.00	9.35	0.56	0.241	1.40	O.K	0.17
NE+3.8955	P22	AXIAL	136.47	158.06	49.91	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.213	2.25	O.K	0.09
NE+3.8955	P22	CORTANTE	34.58	161.70	50.94	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.054	2.25	O.K	0.02
NE+3.8955	P22	MOMENTO	34.58	161.70	50.94	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.054	2.25	O.K	0.02
NE+3.8955	P23	AXIAL	36.11	178.54	83.31	140.00	2508.00	3895.50	2508.00	27.83	1.00	1.00	9.35	0.56	0.103	1.40	O.K	0.07
NE+3.8955	P23	CORTANTE	21.05	223.36	104.83	140.00	2508.00	3895.50	2508.00	27.83	1.00	1.00	9.35	0.56	0.060	1.40	O.K	0.04
NE+3.8955	P23	MOMENTO	21.05	223.36	104.83	140.00	2508.00	3895.50	2508.00	27.83	1.00	1.00	9.35	0.56	0.060	1.40	O.K	0.04
NE+3.8955	P24	AXIAL	71.71	96.94	47.33	150.00	1596.00	3895.50	1596.00	25.97	1.00	1.00	9.35	0.62	0.300	1.54	O.K	0.19
NE+3.8955	P24	CORTANTE	33.45	101.31	49.59	150.00	1596.00	3895.50	1596.00	25.97	1.00	1.00	9.35	0.62	0.140	1.54	O.K	0.09
NE+3.8955	P24	MOMENTO	33.45	101.31	49.59	150.00	1596.00	3895.50	1596.00	25.97	1.00	1.00	9.35	0.62	0.140	1.54	O.K	0.09
NE+3.8955	P25	AXIAL	94.95	66.38	26.76	300.00	1399.91	3895.50	1399.91	12.99	1.00	1.00	9.35	0.90	0.226	2.25	O.K	0.10
NE+3.8955	P25	CORTANTE	25.78	81.53	31.24	300.00	1399.91	3895.50	1399.91	12.99	1.00	1.00	9.35	0.90	0.061	2.25	O.K	0.03
NE+3.8955	P25	MOMENTO	25.78	81.53	31.24	300.00	1399.91	3895.50	1399.91	12.99	1.00	1.00	9.35	0.90	0.061	2.25	O.K	0.03
NE+3.8955	P26	AXIAL	64.75	165.11	71.23	170.00	2508.00	3895.50	2508.00	22.91	1.00	1.00	9.35	0.70	0.152	1.75	O.K	0.09
NE+3.8955	P26	CORTANTE	61.40	198.01	82.87	170.00	2508.00	3895.50	2508.00	22.91	1.00	1.00	9.35	0.70	0.144	1.75	O.K	0.08
NE+3.8955	P26	MOMENTO	61.40	198.01	82.87	170.00	2508.00	3895.50	2508.00	22.91	1.00	1.00	9.35	0.70	0.144	1.75	O.K	0.08
NE+3.8955	P27	AXIAL	96.26	136.72	53.51	150.00	2861.40	3895.50	2861.40	25.97	1.00	1.00	9.35	0.62	0.224	1.54	O.K	0.15
NE+3.8955	P27	CORTANTE	21.57	175.17	68.71	150.00	2861.40	3895.50	2861.40	25.97	1.00	1.00	9.35	0.62	0.050	1.54	O.K	0.03
NE+3.8955	P27	MOMENTO	21.57	175.17	68.71	150.00	2861.40	3895.50	2861.40	25.97	1.00	1.00	9.35	0.62	0.050	1.54	O.K	0.03
NE+3.8955	P28	AXIAL	47.51	7.38	3.53	300.00	444.60	3895.50	444.60	12.99	1.00	1.00	9.35	0.90	0.356	2.25	O.K	0.16
NE+3.8955	P28	CORTANTE	24.25	10.40	5.09	300.00	444.60	3895.50	444.60	12.99	1.00	1.00	9.35	0.90	0.182	2.25	O.K	0.08
NE+3.8955	P28	MOMENTO	24.25	10.40	5.09	300.00	444.60	3895.50	444.60	12.99	1.00	1.00	9.35	0.90	0.182	2.25	O.K	0.08

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NE+3.8955	P29	AXIAL	34.41	23.49	8.11	150.00	1280.22	3895.50	1280.22	25.97	1.00	1.00	9.35	0.62	0.179	1.54	O.K	0.12
NE+3.8955	P29	CORTANTE	19.51	28.80	9.84	150.00	1280.22	3895.50	1280.22	25.97	1.00	1.00	9.35	0.62	0.102	1.54	O.K	0.07
NE+3.8955	P29	MOMENTO	19.51	28.80	9.84	150.00	1280.22	3895.50	1280.22	25.97	1.00	1.00	9.35	0.62	0.102	1.54	O.K	0.07
NE+3.8955	P30	AXIAL	10.33	3.54	1.78	120.00	307.70	3895.50	307.70	32.46	1.00	1.00	9.35	0.42	0.280	1.04	O.K	0.27
NE+3.8955	P30	CORTANTE	10.33	3.54	1.78	120.00	307.70	3895.50	307.70	32.46	1.00	1.00	9.35	0.42	0.280	1.04	O.K	0.27
NE+3.8955	P30	MOMENTO	10.33	3.54	1.78	120.00	307.70	3895.50	307.70	32.46	1.00	1.00	9.35	0.42	0.280	1.04	O.K	0.27
NE+3.8955	P31	AXIAL	53.74	206.90	59.71	150.00	3112.20	3895.50	3112.20	25.97	1.00	1.00	9.35	0.62	0.115	1.54	O.K	0.07
NE+3.8955	P31	CORTANTE	53.74	206.90	59.71	150.00	3112.20	3895.50	3112.20	25.97	1.00	1.00	9.35	0.62	0.115	1.54	O.K	0.07
NE+3.8955	P31	MOMENTO	53.74	206.90	59.71	150.00	3112.20	3895.50	3112.20	25.97	1.00	1.00	9.35	0.62	0.115	1.54	O.K	0.07
NE+3.8955	P33	AXIAL	39.22	30.00	7.58	460.00	1014.60	3895.50	1014.60	8.47	1.00	1.00	9.35	0.96	0.084	2.39	O.K	0.04
NE+3.8955	P33	CORTANTE	35.18	44.62	12.50	460.00	1014.60	3895.50	1014.60	8.47	1.00	1.00	9.35	0.96	0.075	2.39	O.K	0.03
NE+3.8955	P33	MOMENTO	35.18	44.62	12.50	460.00	1014.60	3895.50	1014.60	8.47	1.00	1.00	9.35	0.96	0.075	2.39	O.K	0.03
NE+3.8955	P34	AXIAL	56.82	49.68	13.69	700.00	1014.60	3895.50	1014.60	5.57	1.00	1.00	9.35	0.98	0.080	2.44	O.K	0.03
NE+3.8955	P34	CORTANTE	56.65	65.26	17.75	700.00	1014.60	3895.50	1014.60	5.57	1.00	1.00	9.35	0.98	0.080	2.44	O.K	0.03
NE+3.8955	P34	MOMENTO	56.65	65.26	17.75	700.00	1014.60	3895.50	1014.60	5.57	1.00	1.00	9.35	0.98	0.080	2.44	O.K	0.03
NE+3.8955	P35	AXIAL	9.21	4.24	2.17	180.00	171.00	3895.50	171.00	21.64	1.00	1.00	9.35	0.73	0.299	1.83	O.K	0.16
NE+3.8955	P35	CORTANTE	9.21	4.24	2.17	180.00	171.00	3895.50	171.00	21.64	1.00	1.00	9.35	0.73	0.299	1.83	O.K	0.16
NE+3.8955	P35	MOMENTO	9.21	4.24	2.17	180.00	171.00	3895.50	171.00	21.64	1.00	1.00	9.35	0.73	0.299	1.83	O.K	0.16
NE+3.8955	P36	AXIAL	34.32	60.65	19.24	180.00	1552.55	3895.50	1552.55	21.64	1.00	1.00	9.35	0.73	0.123	1.83	O.K	0.07
NE+3.8955	P36	CORTANTE	34.32	60.65	19.24	180.00	1552.55	3895.50	1552.55	21.64	1.00	1.00	9.35	0.73	0.123	1.83	O.K	0.07
NE+3.8955	P36	MOMENTO	34.32	60.65	19.24	180.00	1552.55	3895.50	1552.55	21.64	1.00	1.00	9.35	0.73	0.123	1.83	O.K	0.07
NE+3.8955	P38	AXIAL	35.19	25.15	8.50	160.00	1081.15	3895.50	1081.15	24.35	1.00	1.00	9.35	0.66	0.203	1.65	O.K	0.12
NE+3.8955	P38	CORTANTE	35.19	25.15	8.50	160.00	1081.15	3895.50	1081.15	24.35	1.00	1.00	9.35	0.66	0.203	1.65	O.K	0.12
NE+3.8955	P38	MOMENTO	35.19	25.15	8.50	160.00	1081.15	3895.50	1081.15	24.35	1.00	1.00	9.35	0.66	0.203	1.65	O.K	0.12
NE+3.8955	P40	AXIAL	37.79	8.45	4.33	160.00	488.40	3895.50	488.40	24.35	1.00	1.00	9.35	0.66	0.484	1.65	O.K	0.29
NE+3.8955	P40	CORTANTE	37.79	8.45	4.33	160.00	488.40	3895.50	488.40	24.35	1.00	1.00	9.35	0.66	0.484	1.65	O.K	0.29
NE+3.8955	P40	MOMENTO	37.79	8.45	4.33	160.00	488.40	3895.50	488.40	24.35	1.00	1.00	9.35	0.66	0.484	1.65	O.K	0.29
NE+3.8955	P41	AXIAL	145.72	193.22	82.71	330.00	2508.00	3895.50	2508.00	11.80	1.00	1.00	9.35	0.92	0.176	2.29	O.K	0.08
NE+3.8955	P41	CORTANTE	140.81	396.90	143.05	330.00	2508.00	3895.50	2508.00	11.80	1.00	1.00	9.35	0.92	0.170	2.29	O.K	0.07
NE+3.8955	P41	MOMENTO	140.81	396.90	143.05	330.00	2508.00	3895.50	2508.00	11.80	1.00	1.00	9.35	0.92	0.170	2.29	O.K	0.07
NE+3.8955	P42	AXIAL	291.17	494.37	182.27	300.00	3499.80	3895.50	3499.80	12.99	1.00	1.00	9.35	0.90	0.277	2.25	O.K	0.12
NE+3.8955	P42	CORTANTE	12.07	520.13	196.59	300.00	3499.80	3895.50	3499.80	12.99	1.00	1.00	9.35	0.90	0.011	2.25	O.K	0.01
NE+3.8955	P42	MOMENTO	12.07	520.13	196.59	300.00	3499.80	3895.50	3499.80	12.99	1.00	1.00	9.35	0.90	0.011	2.25	O.K	0.01
NE+3.8955	P43	AXIAL	106.72	356.99	166.71	180.00	2508.00	3895.50	2508.00	21.64	1.00	1.00	9.35	0.73	0.236	1.83	O.K	0.13
NE+3.8955	P43	CORTANTE	32.14	355.88	167.28	180.00	2508.00	3895.50	2508.00	21.64	1.00	1.00	9.35	0.73	0.071	1.83	O.K	0.04
NE+3.8955	P43	MOMENTO	106.72	356.99	166.71	180.00	2508.00	3895.50	2508.00	21.64	1.00	1.00	9.35	0.73	0.236	1.83	O.K	0.13
NE+3.8955	P44	AXIAL	16.98	12.21	4.59	160.00	1014.60	3895.50	1014.60	24.35	1.00	1.00	9.35	0.66	0.105	1.65	O.K	0.06
NE+3.8955	P44	CORTANTE	15.69	14.69	5.51	160.00	1014.60	3895.50	1014.60	24.35	1.00	1.00	9.35	0.66	0.097	1.65	O.K	0.06
NE+3.8955	P44	MOMENTO	15.69	14.69	5.51	160.00	1014.60	3895.50	1014.60	24.35	1.00	1.00	9.35	0.66	0.097	1.65	O.K	0.06
NE+3.8955	P45	AXIAL	89.52	46.65	22.32	160.00	1288.20	3895.50	1288.20	24.35	1.00	1.00	9.35	0.66	0.434	1.65	O.K	0.26
NE+3.8955	P45	CORTANTE	53.25	48.68	23.29	160.00	1288.20	3895.50	1288.20	24.35	1.00	1.00	9.35	0.66	0.258	1.65	O.K	0.16
NE+3.8955	P45	MOMENTO	53.25	48.68	23.29	160.00	1288.20	3895.50	1288.20	24.35	1.00	1.00	9.35	0.66	0.258	1.65	O.K	0.16

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NE+3.8955	P46	AXIAL	15.91	6.25	2.82	300.00	456.00	3895.50	456.00	12.99	1.00	1.00	9.35	0.90	0.116	2.25	O.K	0.05
NE+3.8955	P46	CORTANTE	7.86	7.15	3.28	300.00	456.00	3895.50	456.00	12.99	1.00	1.00	9.35	0.90	0.057	2.25	O.K	0.03
NE+3.8955	P46	MOMENTO	7.86	7.15	3.28	300.00	456.00	3895.50	456.00	12.99	1.00	1.00	9.35	0.90	0.057	2.25	O.K	0.03
NE+3.8955	P47	AXIAL	17.20	7.32	3.47	300.00	421.30	3895.50	421.30	12.99	1.00	1.00	9.35	0.90	0.136	2.25	O.K	0.06
NE+3.8955	P47	CORTANTE	17.20	7.32	3.47	300.00	421.30	3895.50	421.30	12.99	1.00	1.00	9.35	0.90	0.136	2.25	O.K	0.06
NE+3.8955	P47	MOMENTO	17.20	7.32	3.47	300.00	421.30	3895.50	421.30	12.99	1.00	1.00	9.35	0.90	0.136	2.25	O.K	0.06
NE+3.8955	P48	AXIAL	87.71	41.65	20.09	300.00	783.10	3895.50	783.10	12.99	1.00	1.00	9.35	0.90	0.373	2.25	O.K	0.17
NE+3.8955	P48	CORTANTE	87.71	41.65	20.09	300.00	783.10	3895.50	783.10	12.99	1.00	1.00	9.35	0.90	0.373	2.25	O.K	0.17
NE+3.8955	P48	MOMENTO	87.71	41.65	20.09	300.00	783.10	3895.50	783.10	12.99	1.00	1.00	9.35	0.90	0.373	2.25	O.K	0.17
NE+3.8955	P49	AXIAL	89.26	120.88	47.66	300.00	1252.20	3895.50	1252.20	12.99	1.00	1.00	9.35	0.90	0.238	2.25	O.K	0.11
NE+3.8955	P49	CORTANTE	89.26	120.88	47.66	300.00	1252.20	3895.50	1252.20	12.99	1.00	1.00	9.35	0.90	0.238	2.25	O.K	0.11
NE+3.8955	P49	MOMENTO	89.26	120.88	47.66	300.00	1252.20	3895.50	1252.20	12.99	1.00	1.00	9.35	0.90	0.238	2.25	O.K	0.11
NE+3.8955	P50	AXIAL	71.28	104.81	38.17	160.00	2485.20	3895.50	2485.20	24.35	1.00	1.00	9.35	0.66	0.179	1.65	O.K	0.11
NE+3.8955	P50	CORTANTE	65.91	133.24	49.86	160.00	2485.20	3895.50	2485.20	24.35	1.00	1.00	9.35	0.66	0.166	1.65	O.K	0.10
NE+3.8955	P50	MOMENTO	65.91	133.24	49.86	160.00	2485.20	3895.50	2485.20	24.35	1.00	1.00	9.35	0.66	0.166	1.65	O.K	0.10
NE+3.8955	P51	AXIAL	49.17	19.89	9.60	300.00	674.40	3895.50	674.40	12.99	1.00	1.00	9.35	0.90	0.243	2.25	O.K	0.11
NE+3.8955	P51	CORTANTE	42.52	36.41	16.30	300.00	674.40	3895.50	674.40	12.99	1.00	1.00	9.35	0.90	0.210	2.25	O.K	0.09
NE+3.8955	P51	MOMENTO	42.52	36.41	16.30	300.00	674.40	3895.50	674.40	12.99	1.00	1.00	9.35	0.90	0.210	2.25	O.K	0.09
NE+3.8955	P52	AXIAL	53.36	10.46	3.53	300.00	843.60	3895.50	843.60	12.99	1.00	1.00	9.35	0.90	0.211	2.25	O.K	0.09
NE+3.8955	P52	CORTANTE	4.40	31.36	10.74	300.00	843.60	3895.50	843.60	12.99	1.00	1.00	9.35	0.90	0.017	2.25	O.K	0.01
NE+3.8955	P52	MOMENTO	46.17	31.36	10.65	300.00	843.60	3895.50	843.60	12.99	1.00	1.00	9.35	0.90	0.182	2.25	O.K	0.08
NE+3.8955	P53	AXIAL	57.20	92.64	35.83	120.00	2359.80	3895.50	2359.80	32.46	1.00	1.00	9.35	0.42	0.202	1.04	O.K	0.19
NE+3.8955	P53	CORTANTE	57.20	92.64	35.83	120.00	2359.80	3895.50	2359.80	32.46	1.00	1.00	9.35	0.42	0.202	1.04	O.K	0.19
NE+3.8955	P53	MOMENTO	57.20	92.64	35.83	120.00	2359.80	3895.50	2359.80	32.46	1.00	1.00	9.35	0.42	0.202	1.04	O.K	0.19
NE+3.8955	P54	AXIAL	70.92	46.77	18.01	300.00	1348.70	3895.50	1348.70	12.99	1.00	1.00	9.35	0.90	0.175	2.25	O.K	0.08
NE+3.8955	P54	CORTANTE	68.57	56.54	20.85	300.00	1348.70	3895.50	1348.70	12.99	1.00	1.00	9.35	0.90	0.169	2.25	O.K	0.08
NE+3.8955	P54	MOMENTO	68.57	56.54	20.85	300.00	1348.70	3895.50	1348.70	12.99	1.00	1.00	9.35	0.90	0.169	2.25	O.K	0.08
NE+3.8955	P55	AXIAL	47.85	14.68	6.15	300.00	589.30	3895.50	589.30	12.99	1.00	1.00	9.35	0.90	0.271	2.25	O.K	0.12
NE+3.8955	P55	CORTANTE	11.43	19.95	8.92	300.00	589.30	3895.50	589.30	12.99	1.00	1.00	9.35	0.90	0.065	2.25	O.K	0.03
NE+3.8955	P55	MOMENTO	11.43	19.95	8.92	300.00	589.30	3895.50	589.30	12.99	1.00	1.00	9.35	0.90	0.065	2.25	O.K	0.03
NE+3.8955	P56	AXIAL	167.66	556.35	147.62	300.00	4446.00	3895.50	4446.00	12.99	1.00	1.00	9.35	0.90	0.126	2.25	O.K	0.06
NE+3.8955	P56	CORTANTE	92.31	746.57	198.65	300.00	4446.00	3895.50	4446.00	12.99	1.00	1.00	9.35	0.90	0.069	2.25	O.K	0.03
NE+3.8955	P56	MOMENTO	92.31	746.57	198.65	300.00	4446.00	3895.50	4446.00	12.99	1.00	1.00	9.35	0.90	0.069	2.25	O.K	0.03
NE+3.8955	P57	AXIAL	73.34	38.52	15.61	320.00	911.90	3895.50	911.90	12.17	1.00	1.00	9.35	0.92	0.251	2.28	O.K	0.11
NE+3.8955	P57	CORTANTE	19.14	46.50	19.94	320.00	911.90	3895.50	911.90	12.17	1.00	1.00	9.35	0.92	0.066	2.28	O.K	0.03
NE+3.8955	P57	MOMENTO	19.14	46.50	19.94	320.00	911.90	3895.50	911.90	12.17	1.00	1.00	9.35	0.92	0.066	2.28	O.K	0.03

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NE+3.8955	P58	AXIAL	49.63	7.03	3.81	320.00	934.80	3895.50	934.80	12.17	1.00	1.00	9.35	0.92	0.166	2.28	O.K	0.07
NE+3.8955	P58	CORTANTE	43.42	31.45	11.49	320.00	934.80	3895.50	934.80	12.17	1.00	1.00	9.35	0.92	0.145	2.28	O.K	0.06
NE+3.8955	P58	MOMENTO	43.42	31.45	11.49	320.00	934.80	3895.50	934.80	12.17	1.00	1.00	9.35	0.92	0.145	2.28	O.K	0.06
NE+3.8955	P59	AXIAL	19.55	4.94	1.68	300.00	718.20	3895.50	718.20	12.99	1.00	1.00	9.35	0.90	0.091	2.25	O.K	0.04
NE+3.8955	P59	CORTANTE	16.98	20.31	7.23	300.00	718.20	3895.50	718.20	12.99	1.00	1.00	9.35	0.90	0.079	2.25	O.K	0.04
NE+3.8955	P59	MOMENTO	16.98	20.31	7.23	300.00	718.20	3895.50	718.20	12.99	1.00	1.00	9.35	0.90	0.079	2.25	O.K	0.04
NE+3.8955	P60	AXIAL	186.19	182.69	76.82	300.00	1390.80	3895.50	1390.80	12.99	1.00	1.00	9.35	0.90	0.446	2.25	O.K	0.20
NE+3.8955	P60	CORTANTE	186.19	182.69	76.82	300.00	1390.80	3895.50	1390.80	12.99	1.00	1.00	9.35	0.90	0.446	2.25	O.K	0.20
NE+3.8955	P60	MOMENTO	186.19	182.69	76.82	300.00	1390.80	3895.50	1390.80	12.99	1.00	1.00	9.35	0.90	0.446	2.25	O.K	0.20
NE+3.8955	P61	AXIAL	427.20	1122.57	364.01	380.00	5316.90	3895.50	5316.90	10.25	1.00	1.00	9.35	0.94	0.211	2.34	O.K	0.09
NE+3.8955	P61	CORTANTE	32.32	1383.99	425.22	380.00	5316.90	3895.50	5316.90	10.25	1.00	1.00	9.35	0.94	0.016	2.34	O.K	0.01
NE+3.8955	P61	MOMENTO	32.32	1383.99	425.22	380.00	5316.90	3895.50	5316.90	10.25	1.00	1.00	9.35	0.94	0.016	2.34	O.K	0.01
NE+3.8955	P62	AXIAL	52.72	39.53	19.66	300.00	774.00	3895.50	774.00	12.99	1.00	1.00	9.35	0.90	0.227	2.25	O.K	0.10
NE+3.8955	P62	CORTANTE	45.88	104.06	51.50	300.00	774.00	3895.50	774.00	12.99	1.00	1.00	9.35	0.90	0.198	2.25	O.K	0.09
NE+3.8955	P62	MOMENTO	45.88	104.06	51.50	300.00	774.00	3895.50	774.00	12.99	1.00	1.00	9.35	0.90	0.198	2.25	O.K	0.09
NE+3.8955	P63	AXIAL	171.42	250.42	109.88	140.00	2826.61	3895.50	2826.61	27.83	1.00	1.00	9.35	0.56	0.433	1.40	O.K	0.31
NE+3.8955	P63	CORTANTE	74.02	263.93	119.52	140.00	2826.61	3895.50	2826.61	27.83	1.00	1.00	9.35	0.56	0.187	1.40	O.K	0.13
NE+3.8955	P63	MOMENTO	74.02	263.93	119.52	140.00	2826.61	3895.50	2826.61	27.83	1.00	1.00	9.35	0.56	0.187	1.40	O.K	0.13
NE+3.8955	P65	AXIAL	141.51	127.31	54.38	380.00	1547.80	3895.50	1547.80	10.25	1.00	1.00	9.35	0.94	0.241	2.34	O.K	0.10
NE+3.8955	P65	CORTANTE	141.51	127.31	54.38	380.00	1547.80	3895.50	1547.80	10.25	1.00	1.00	9.35	0.94	0.241	2.34	O.K	0.10
NE+3.8955	P65	MOMENTO	128.23	133.80	53.98	380.00	1547.80	3895.50	1547.80	10.25	1.00	1.00	9.35	0.94	0.218	2.34	O.K	0.09
NE+3.8955	P66	AXIAL	185.28	385.90	111.79	320.00	2690.40	3895.50	2690.40	12.17	1.00	1.00	9.35	0.92	0.215	2.28	O.K	0.09
NE+3.8955	P66	CORTANTE	185.28	385.90	111.79	320.00	2690.40	3895.50	2690.40	12.17	1.00	1.00	9.35	0.92	0.215	2.28	O.K	0.09
NE+3.8955	P66	MOMENTO	185.28	385.90	111.79	320.00	2690.40	3895.50	2690.40	12.17	1.00	1.00	9.35	0.92	0.215	2.28	O.K	0.09
NE+3.8955	P67	AXIAL	73.50	163.37	45.36	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.115	2.25	O.K	0.05
NE+3.8955	P67	CORTANTE	70.45	214.25	58.42	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.110	2.25	O.K	0.05
NE+3.8955	P67	MOMENTO	70.45	214.25	58.42	300.00	2131.80	3895.50	2131.80	12.99	1.00	1.00	9.35	0.90	0.110	2.25	O.K	0.05

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ELEMENTOS - ANALISIS COMO MAMPOSTERIA NO REFORZADA - TABLA 2 DE 2 - CARGAS GRAVITACIONALES + SISMO

FLEXO-COMPRESION																
c	I	fb	Fb _{adm}	fb<=Fb _{adm}	INDICE SOBRE ESFUERZO	ESF. COMBINADOS		AMV	MU/VU d	Fv _{adm}	Fv _{adm} +0.2 fam	CORTANTE				INDICE SOBRE ESFUERZO
(mm)	(mm ⁴)	(Mpa)	(Mpa)			(F _v /F _a adm)+(F _b /F _b adm)		mm ²		(Mpa)	(Mpa)	AXIAL CM	fam	fv		fv<=Fv _{adm}
												KN	(Mpa)	(Mpa)	(Mpa)	
579.71	41561488706.05	0.85	4.10	O.K	0.21	0.26	O.K	371014.40	3.76	0.10	0.12	38.22	0.10	0.05	0.34	O.k
579.71	41561488706.05	1.08	4.10	O.K	0.26	0.31	O.K	371014.40	3.84	0.10	0.12	38.22	0.10	0.07	0.34	O.k
579.71	41561488706.05	1.08	4.10	O.K	0.26	0.31	O.K	371014.40	3.84	0.10	0.12	38.22	0.10	0.07	0.34	O.k
563.16	38102556877.33	0.67	4.10	O.K	0.16	0.21	O.K	360422.40	4.44	0.10	0.12	37.02	0.10	0.03	0.34	O.k
563.16	38102556877.33	0.96	4.10	O.K	0.23	0.28	O.K	360422.40	3.95	0.10	0.12	37.02	0.10	0.06	0.34	O.k
563.16	38102556877.33	0.96	4.10	O.K	0.23	0.28	O.K	360422.40	3.95	0.10	0.12	37.02	0.10	0.06	0.34	O.k
679.95	25149011607.99	2.68	4.10	O.K	0.65	0.94	O.K	163188.00	1.91	0.10	0.12	14.59	0.09	0.32	0.34	N.C
679.95	25149011607.99	2.68	4.10	O.K	0.65	0.94	O.K	163188.00	1.91	0.10	0.12	14.59	0.09	0.32	0.34	N.C
679.95	25149011607.99	2.68	4.10	O.K	0.65	0.94	O.K	163188.00	1.91	0.10	0.12	14.59	0.09	0.32	0.34	N.C
1065.90	242202924235.80	0.67	4.10	O.K	0.16	0.21	O.K	639540.00	2.10	0.10	0.12	67.12	0.10	0.07	0.34	O.k
1065.90	242202924235.80	0.84	4.10	O.K	0.20	0.25	O.K	639540.00	2.14	0.10	0.12	67.12	0.10	0.09	0.34	O.k
1065.90	242202924235.80	0.84	4.10	O.K	0.20	0.25	O.K	639540.00	2.14	0.10	0.12	67.12	0.10	0.09	0.34	O.k
592.80	16665355100.16	1.52	4.10	O.K	0.37	0.75	O.K	142272.00	2.30	0.10	0.12	13.43	0.09	0.13	0.34	N.C
592.80	16665355100.16	1.38	4.10	O.K	0.34	0.54	O.K	142272.00	2.29	0.10	0.12	13.43	0.09	0.13	0.34	N.C
592.80	16665355100.16	1.38	4.10	O.K	0.34	0.54	O.K	142272.00	2.29	0.10	0.12	13.43	0.09	0.13	0.34	N.C
3294.55	7628638377145.89	0.82	4.10	O.K	0.20	0.26	O.K	2108512.00	0.60	0.10	0.12	192.50	0.09	0.30	0.34	N.C
3294.55	7628638377145.89	0.72	4.10	O.K	0.17	0.19	O.K	2108512.00	0.58	0.10	0.12	192.50	0.09	0.30	0.34	N.C
3294.55	7628638377145.89	0.82	4.10	O.K	0.20	0.26	O.K	2108512.00	0.60	0.10	0.12	192.50	0.09	0.30	0.34	N.C
448.85	18085631770.83	0.80	4.10	O.K	0.19	0.29	O.K	269310.00	3.31	0.10	0.12	25.47	0.09	0.05	0.34	O.k
448.85	18085631770.83	0.69	4.10	O.K	0.17	0.17	O.K	269310.00	3.42	0.10	0.12	25.47	0.09	0.05	0.34	O.k
448.85	18085631770.83	0.69	4.10	O.K	0.17	0.17	O.K	269310.00	3.42	0.10	0.12	25.47	0.09	0.05	0.34	O.k
530.10	29792257180.20	0.41	4.10	O.K	0.10	0.14	O.K	318060.00	3.91	0.10	0.12	28.43	0.09	0.02	0.34	O.k
530.10	29792257180.20	0.55	4.10	O.K	0.13	0.17	O.K	318060.00	3.79	0.10	0.12	28.43	0.09	0.03	0.34	O.k
530.10	29792257180.20	0.55	4.10	O.K	0.13	0.17	O.K	318060.00	3.79	0.10	0.12	28.43	0.09	0.03	0.34	O.k
399.00	11857290480.00	0.40	4.10	O.K	0.10	0.14	O.K	223440.00	4.59	0.10	0.12	20.17	0.09	0.02	0.34	O.k
399.00	11857290480.00	0.49	4.10	O.K	0.12	0.16	O.K	223440.00	4.68	0.10	0.12	20.17	0.09	0.02	0.34	O.k
399.00	11857290480.00	0.49	4.10	O.K	0.12	0.16	O.K	223440.00	4.68	0.10	0.12	20.17	0.09	0.02	0.34	O.k
236.55	2470788830.79	1.24	4.10	O.K	0.27	0.43	O.K	132468.00	5.48	0.10	0.12	10.48	0.08	0.04	0.34	O.k
236.55	2470788830.79	1.24	4.10	O.K	0.30	0.39	O.K	132468.00	5.39	0.10	0.12	10.48	0.08	0.05	0.34	O.k
236.55	2470788830.79	1.24	4.10	O.K	0.30	0.39	O.K	132468.00	5.39	0.10	0.12	10.48	0.08	0.05	0.34	O.k
645.30	37619501034.78	1.37	4.10	O.K	0.33	0.40	O.K	271026.00	2.39	0.10	0.12	21.84	0.08	0.13	0.34	N.C
645.30	37619501034.78	1.28	4.10	O.K	0.31	0.32	O.K	271026.00	2.39	0.10	0.12	21.84	0.08	0.14	0.34	N.C
645.30	37619501034.78	1.28	4.10	O.K	0.31	0.32	O.K	271026.00	2.39	0.10	0.12	21.84	0.08	0.14	0.34	N.C
769.50	63790191832.50	2.11	4.10	O.K	0.51	0.66	O.K	323190.00	1.80	0.10	0.12	26.74	0.08	0.26	0.34	N.C
769.50	63790191832.50	2.11	4.10	O.K	0.51	0.66	O.K	323190.00	1.80	0.10	0.12	26.74	0.08	0.26	0.34	N.C
769.50	63790191832.50	2.11	4.10	O.K	0.51	0.66	O.K	323190.00	1.80	0.10	0.12	26.74	0.08	0.26	0.34	N.C
1299.60	175597809914.88	1.15	4.10	O.K	0.28	0.54	O.K	311904.00	1.18	0.10	0.12	34.63	0.11	0.19	0.34	N.C
1299.60	175597809914.88	1.15	4.10	O.K	0.28	0.54	O.K	311904.00	1.18	0.10	0.12	34.63	0.11	0.19	0.34	N.C
1299.60	175597809914.88	1.15	4.10	O.K	0.28	0.54	O.K	311904.00	1.18	0.10	0.12	34.63	0.11	0.19	0.34	N.C
1769.75	1108576731371.87	1.17	4.10	O.K	0.29	0.37	O.K	1061850.00	0.99	0.10	0.12	94.49	0.09	0.26	0.34	N.C
1769.75	1108576731371.87	1.17	4.10	O.K	0.29	0.37	O.K	1061850.00	0.99	0.10	0.12	94.49	0.09	0.26	0.34	N.C
1769.75	1108576731371.87	1.00	4.10	O.K	0.24	0.24	O.K	1061850.00	0.99	0.10	0.12	94.49	0.09	0.26	0.34	N.C

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905.75	59444956708.75	1.13	4.10	O.K	0.28	0.61	O.k	217380.00	1.41	0.10	0.12	21.39	0.10	0.15	0.34	N.C	1.20
905.75	59444956708.75	1.05	4.10	O.K	0.26	0.40	O.k	217380.00	1.38	0.10	0.12	21.39	0.10	0.17	0.34	N.C	1.39
905.75	59444956708.75	1.04	4.10	O.K	0.25	0.35	O.k	217380.00	1.53	0.10	0.12	21.39	0.10	0.16	0.34	N.C	1.31
982.70	189798538456.60	0.89	4.10	O.K	0.22	0.34	O.k	589620.00	1.54	0.10	0.12	55.84	0.09	0.11	0.34	O.k	0.89
982.70	189798538456.60	0.92	4.10	O.K	0.23	0.25	O.k	589620.00	1.57	0.10	0.12	55.84	0.09	0.14	0.34	N.C	1.18
982.70	189798538456.60	0.92	4.10	O.K	0.23	0.25	O.k	589620.00	1.57	0.10	0.12	55.84	0.09	0.14	0.34	N.C	1.18
2276.00	2358016115200.00	0.73	4.10	O.K	0.18	0.25	O.k	1365600.00	1.00	0.10	0.12	116.40	0.09	0.15	0.34	N.C	1.22
2276.00	2358016115200.00	0.75	4.10	O.K	0.18	0.19	O.k	1365600.00	1.00	0.10	0.12	116.40	0.09	0.19	0.34	N.C	1.62
2276.00	2358016115200.00	0.75	4.10	O.K	0.18	0.19	O.k	1365600.00	1.00	0.10	0.12	116.40	0.09	0.19	0.34	N.C	1.62
1365.75	441566092085.63	1.04	4.10	O.K	0.25	0.37	O.k	710190.00	1.04	0.10	0.12	56.59	0.08	0.20	0.34	N.C	1.67
1365.75	441566092085.63	1.07	4.10	O.K	0.26	0.29	O.k	710190.00	1.03	0.10	0.12	56.59	0.08	0.25	0.34	N.C	2.16
1365.75	441566092085.63	1.07	4.10	O.K	0.26	0.29	O.k	710190.00	1.03	0.10	0.12	56.59	0.08	0.25	0.34	N.C	2.16
717.05	73735786345.53	1.25	4.10	O.K	0.30	0.43	O.k	430230.00	2.14	0.10	0.12	34.90	0.08	0.12	0.34	N.C	1.00
717.05	73735786345.53	1.22	4.10	O.K	0.30	0.34	O.k	430230.00	2.26	0.10	0.12	34.90	0.08	0.13	0.34	N.C	1.09
717.05	73735786345.53	1.22	4.10	O.K	0.30	0.34	O.k	430230.00	2.26	0.10	0.12	34.90	0.08	0.13	0.34	N.C	1.09
367.65	9938794399.43	0.39	4.10	O.K	0.09	0.14	O.k	220590.00	5.62	0.10	0.12	17.63	0.08	0.01	0.34	O.k	0.12
367.65	9938794399.43	0.40	4.10	O.K	0.10	0.13	O.k	220590.00	5.23	0.10	0.12	17.63	0.08	0.02	0.34	O.k	0.14
367.65	9938794399.43	0.40	4.10	O.K	0.10	0.13	O.k	220590.00	5.23	0.10	0.12	17.63	0.08	0.02	0.34	O.k	0.14
808.65	49353567313.37	1.18	4.10	O.K	0.29	0.46	O.k	226422.00	1.83	0.10	0.12	20.41	0.09	0.13	0.34	N.C	1.12
808.65	49353567313.37	1.18	4.10	O.K	0.29	0.46	O.k	226422.00	1.83	0.10	0.12	20.41	0.09	0.13	0.34	N.C	1.12
808.65	49353567313.37	1.18	4.10	O.K	0.29	0.46	O.k	226422.00	1.83	0.10	0.12	20.41	0.09	0.13	0.34	N.C	1.12
1065.90	242202924235.80	0.91	4.10	O.K	0.22	0.32	O.k	639540.00	1.86	0.10	0.12	50.94	0.08	0.10	0.34	O.k	0.83
1065.90	242202924235.80	0.77	4.10	O.K	0.19	0.21	O.k	639540.00	1.86	0.10	0.12	50.94	0.08	0.10	0.34	O.k	0.85
1065.90	242202924235.80	0.77	4.10	O.K	0.19	0.21	O.k	639540.00	1.86	0.10	0.12	50.94	0.08	0.10	0.34	O.k	0.85
1254.00	184047272640.00	1.32	4.10	O.K	0.32	0.40	O.k	351120.00	1.07	0.10	0.12	28.42	0.08	0.30	0.34	N.C	2.52
1254.00	184047272640.00	1.58	4.10	O.K	0.39	0.43	O.k	351120.00	1.06	0.10	0.12	28.42	0.08	0.37	0.34	N.C	3.17
1254.00	184047272640.00	1.58	4.10	O.K	0.39	0.43	O.k	351120.00	1.06	0.10	0.12	28.42	0.08	0.37	0.34	N.C	3.17
798.00	50816959200.00	1.82	4.10	O.K	0.44	0.64	O.k	239400.00	1.60	0.10	0.12	19.13	0.08	0.25	0.34	N.C	2.10
798.00	50816959200.00	1.73	4.10	O.K	0.42	0.51	O.k	239400.00	1.60	0.10	0.12	19.13	0.08	0.26	0.34	N.C	2.20
798.00	50816959200.00	1.73	4.10	O.K	0.42	0.51	O.k	239400.00	1.60	0.10	0.12	19.13	0.08	0.26	0.34	N.C	2.20
699.96	68586770850.48	0.90	4.10	O.K	0.22	0.32	O.k	419973.00	2.22	0.10	0.12	33.93	0.08	0.08	0.34	O.k	0.68
699.96	68586770850.48	0.89	4.10	O.K	0.22	0.25	O.k	419973.00	2.33	0.10	0.12	33.93	0.08	0.09	0.34	O.k	0.79
699.96	68586770850.48	0.89	4.10	O.K	0.22	0.25	O.k	419973.00	2.33	0.10	0.12	33.93	0.08	0.09	0.34	O.k	0.79
1254.00	223485973920.00	1.08	4.10	O.K	0.26	0.35	O.k	426360.00	1.16	0.10	0.12	35.98	0.08	0.21	0.34	N.C	1.76
1254.00	223485973920.00	1.26	4.10	O.K	0.31	0.39	O.k	426360.00	1.19	0.10	0.12	35.98	0.08	0.24	0.34	N.C	2.05
1254.00	223485973920.00	1.26	4.10	O.K	0.31	0.39	O.k	426360.00	1.19	0.10	0.12	35.98	0.08	0.24	0.34	N.C	2.05
1430.70	292850339244.30	0.89	4.10	O.K	0.22	0.36	O.k	429210.00	1.12	0.10	0.12	36.68	0.09	0.16	0.34	N.C	1.31
1430.70	292850339244.30	0.91	4.10	O.K	0.22	0.25	O.k	429210.00	1.11	0.10	0.12	36.68	0.09	0.20	0.34	N.C	1.68
1430.70	292850339244.30	0.91	4.10	O.K	0.22	0.25	O.k	429210.00	1.11	0.10	0.12	36.68	0.09	0.20	0.34	N.C	1.68
222.30	2197092713.40	1.10	4.10	O.K	0.27	0.43	O.k	133380.00	5.88	0.10	0.12	11.63	0.09	0.03	0.34	O.k	0.28
222.30	2197092713.40	1.23	4.10	O.K	0.30	0.38	O.k	133380.00	5.75	0.10	0.12	11.63	0.09	0.05	0.34	O.k	0.40
222.30	2197092713.40	1.23	4.10	O.K	0.30	0.38	O.k	133380.00	5.75	0.10	0.12	11.63	0.09	0.05	0.34	O.k	0.40

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640.11	26227919123.33	0.75	4.10	O.K	0.18	0.30	O.k	192033.00	2.83	0.10	0.13	25.58	0.13	0.05	0.34	O.k	0.41
640.11	26227919123.33	0.80	4.10	O.K	0.20	0.26	O.k	192033.00	2.86	0.10	0.13	25.58	0.13	0.06	0.34	O.k	0.50
640.11	26227919123.33	0.80	4.10	O.K	0.20	0.26	O.k	192033.00	2.86	0.10	0.13	25.58	0.13	0.06	0.34	O.k	0.50
153.85	291328175.33	2.15	4.10	O.K	0.52	0.79	O.k	36924.00	8.09	0.10	0.12	3.53	0.10	0.06	0.34	O.k	0.50
153.85	291328175.33	2.15	4.10	O.K	0.52	0.79	O.k	36924.00	8.09	0.10	0.12	3.53	0.10	0.06	0.34	O.k	0.50
153.85	291328175.33	2.15	4.10	O.K	0.52	0.79	O.k	36924.00	8.09	0.10	0.12	3.53	0.10	0.06	0.34	O.k	0.50
1556.10	376801400348.10	0.97	4.10	O.K	0.24	0.31	O.k	466830.00	1.39	0.10	0.12	44.67	0.10	0.16	0.34	N.C	1.32
1556.10	376801400348.10	0.97	4.10	O.K	0.24	0.31	O.k	466830.00	1.39	0.10	0.12	44.67	0.10	0.16	0.34	N.C	1.32
1556.10	376801400348.10	0.97	4.10	O.K	0.24	0.31	O.k	466830.00	1.39	0.10	0.12	44.67	0.10	0.16	0.34	N.C	1.32
507.30	40036966031.88	0.46	4.10	O.K	0.11	0.15	O.k	466716.00	4.87	0.10	0.12	37.13	0.08	0.02	0.34	O.k	0.17
507.30	40036966031.88	0.64	4.10	O.K	0.16	0.19	O.k	466716.00	4.40	0.10	0.12	37.13	0.08	0.03	0.34	O.k	0.28
507.30	40036966031.88	0.64	4.10	O.K	0.16	0.19	O.k	466716.00	4.40	0.10	0.12	37.13	0.08	0.03	0.34	O.k	0.28
507.30	60925817874.60	0.49	4.10	O.K	0.12	0.15	O.k	710220.00	4.47	0.10	0.12	54.79	0.08	0.02	0.34	O.k	0.21
507.30	60925817874.60	0.62	4.10	O.K	0.15	0.18	O.k	710220.00	4.53	0.10	0.12	54.79	0.08	0.03	0.34	O.k	0.27
507.30	60925817874.60	0.62	4.10	O.K	0.15	0.18	O.k	710220.00	4.53	0.10	0.12	54.79	0.08	0.03	0.34	O.k	0.27
85.50	75003165.00	5.13	4.10	N.C	1.25	1.41	N.C	30780.00	14.29	0.10	0.15	7.26	0.24	0.09	0.34	O.k	0.59
85.50	75003165.00	5.13	4.10	N.C	1.25	1.41	N.C	30780.00	14.29	0.10	0.15	7.26	0.24	0.09	0.34	O.k	0.59
85.50	75003165.00	5.13	4.10	N.C	1.25	1.41	N.C	30780.00	14.29	0.10	0.15	7.26	0.24	0.09	0.34	O.k	0.59
776.28	56134265673.10	0.96	4.10	O.K	0.23	0.30	O.k	279459.00	2.54	0.10	0.12	24.42	0.09	0.09	0.34	O.k	0.72
776.28	56134265673.10	0.96	4.10	O.K	0.23	0.30	O.k	279459.00	2.54	0.10	0.12	24.42	0.09	0.09	0.34	O.k	0.72
776.28	56134265673.10	0.96	4.10	O.K	0.23	0.30	O.k	279459.00	2.54	0.10	0.12	24.42	0.09	0.09	0.34	O.k	0.72
540.58	16849871552.28	1.01	4.10	O.K	0.25	0.37	O.k	172984.00	3.42	0.10	0.13	23.91	0.14	0.06	0.34	O.k	0.48
540.58	16849871552.28	1.01	4.10	O.K	0.25	0.37	O.k	172984.00	3.42	0.10	0.13	23.91	0.14	0.06	0.34	O.k	0.48
540.58	16849871552.28	1.01	4.10	O.K	0.25	0.37	O.k	172984.00	3.42	0.10	0.13	23.91	0.14	0.06	0.34	O.k	0.48
244.20	1553337054.72	1.81	4.10	O.K	0.44	0.73	O.k	78144.00	4.99	0.10	0.12	6.45	0.08	0.07	0.34	O.k	0.59
244.20	1553337054.72	1.81	4.10	O.K	0.44	0.73	O.k	78144.00	4.99	0.10	0.12	6.45	0.08	0.07	0.34	O.k	0.59
244.20	1553337054.72	1.81	4.10	O.K	0.44	0.73	O.k	78144.00	4.99	0.10	0.12	6.45	0.08	0.07	0.34	O.k	0.59
1254.00	433825714080.00	0.73	4.10	O.K	0.18	0.26	O.k	827640.00	1.16	0.10	0.12	65.48	0.08	0.12	0.34	N.C	1.06
1254.00	433825714080.00	1.32	4.10	O.K	0.32	0.40	O.k	827640.00	1.38	0.10	0.12	65.48	0.08	0.22	0.34	N.C	1.84
1254.00	433825714080.00	1.32	4.10	O.K	0.32	0.40	O.k	827640.00	1.38	0.10	0.12	65.48	0.08	0.22	0.34	N.C	1.84
1749.90	1071691260499.80	1.08	4.10	O.K	0.26	0.39	O.k	1049940.00	0.97	0.10	0.12	80.48	0.08	0.22	0.34	N.C	1.85
1749.90	1071691260499.80	0.86	4.10	O.K	0.21	0.21	O.k	1049940.00	0.94	0.10	0.12	80.48	0.08	0.23	0.34	N.C	2.00
1749.90	1071691260499.80	0.86	4.10	O.K	0.21	0.21	O.k	1049940.00	0.94	0.10	0.12	80.48	0.08	0.23	0.34	N.C	2.00
1254.00	236632207680.00	2.13	4.10	O.K	0.52	0.65	O.k	451440.00	1.07	0.10	0.12	37.29	0.08	0.46	0.34	N.C	3.91
1254.00	236632207680.00	1.96	4.10	O.K	0.48	0.52	O.k	451440.00	1.06	0.10	0.12	37.29	0.08	0.46	0.34	N.C	3.92
1254.00	236632207680.00	2.13	4.10	O.K	0.52	0.65	O.k	451440.00	1.07	0.10	0.12	37.29	0.08	0.46	0.34	N.C	3.91
507.30	13925901228.48	0.55	4.10	O.K	0.13	0.20	O.k	162336.00	3.28	0.10	0.12	14.68	0.09	0.04	0.34	O.k	0.29
507.30	13925901228.48	0.63	4.10	O.K	0.15	0.21	O.k	162336.00	3.29	0.10	0.12	14.68	0.09	0.04	0.34	O.k	0.35
507.30	13925901228.48	0.63	4.10	O.K	0.15	0.21	O.k	162336.00	3.29	0.10	0.12	14.68	0.09	0.04	0.34	O.k	0.35
644.10	28502871906.24	1.49	4.10	O.K	0.36	0.63	O.k	206112.00	2.03	0.10	0.12	18.14	0.09	0.14	0.34	N.C	1.13
644.10	28502871906.24	1.36	4.10	O.K	0.33	0.49	O.k	206112.00	2.03	0.10	0.12	18.14	0.09	0.14	0.34	N.C	1.18
644.10	28502871906.24	1.36	4.10	O.K	0.33	0.49	O.k	206112.00	2.03	0.10	0.12	18.14	0.09	0.14	0.34	N.C	1.18

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228.00	2370470400.00	0.72	4.10	O.K	0.17	0.23	O.k	136800.00	6.07	0.10	0.12	11.88	0.09	0.03	0.34	O.k	0.22
228.00	2370470400.00	0.75	4.10	O.K	0.18	0.21	O.k	136800.00	5.98	0.10	0.12	11.88	0.09	0.03	0.34	O.k	0.25
228.00	2370470400.00	0.75	4.10	O.K	0.18	0.21	O.k	136800.00	5.98	0.10	0.12	11.88	0.09	0.03	0.34	O.k	0.25
210.65	1869452289.93	0.96	4.10	O.K	0.23	0.29	O.k	126390.00	6.26	0.10	0.12	11.14	0.09	0.03	0.34	O.k	0.29
210.65	1869452289.93	0.96	4.10	O.K	0.23	0.29	O.k	126390.00	6.26	0.10	0.12	11.14	0.09	0.03	0.34	O.k	0.29
210.65	1869452289.93	0.96	4.10	O.K	0.23	0.29	O.k	126390.00	6.26	0.10	0.12	11.14	0.09	0.03	0.34	O.k	0.29
391.55	12005815929.78	1.73	4.10	O.K	0.42	0.59	O.k	234930.00	3.31	0.10	0.12	18.06	0.08	0.11	0.34	O.k	0.91
391.55	12005815929.78	1.73	4.10	O.K	0.42	0.59	O.k	234930.00	3.31	0.10	0.12	18.06	0.08	0.11	0.34	O.k	0.91
391.55	12005815929.78	1.73	4.10	O.K	0.42	0.59	O.k	234930.00	3.31	0.10	0.12	18.06	0.08	0.11	0.34	O.k	0.91
626.10	49086391516.20	1.78	4.10	O.K	0.43	0.54	O.k	375660.00	2.53	0.10	0.12	29.05	0.08	0.16	0.34	N.C	1.35
626.10	49086391516.20	1.78	4.10	O.K	0.43	0.54	O.k	375660.00	2.53	0.10	0.12	29.05	0.08	0.16	0.34	N.C	1.35
626.10	49086391516.20	1.78	4.10	O.K	0.43	0.54	O.k	375660.00	2.53	0.10	0.12	29.05	0.08	0.16	0.34	N.C	1.35
1242.60	204655194109.44	0.82	4.10	O.K	0.20	0.31	O.k	397632.00	1.38	0.10	0.12	37.31	0.09	0.12	0.34	O.k	1.00
1242.60	204655194109.44	0.97	4.10	O.K	0.24	0.34	O.k	397632.00	1.34	0.10	0.12	37.31	0.09	0.16	0.34	N.C	1.30
1242.60	204655194109.44	0.97	4.10	O.K	0.24	0.34	O.k	397632.00	1.34	0.10	0.12	37.31	0.09	0.16	0.34	N.C	1.30
337.20	7668186969.60	1.12	4.10	O.K	0.27	0.38	O.k	202320.00	3.84	0.10	0.12	16.43	0.08	0.06	0.34	O.k	0.50
337.20	7668186969.60	1.81	4.10	O.K	0.44	0.53	O.k	202320.00	4.14	0.10	0.12	16.43	0.08	0.10	0.34	O.k	0.85
337.20	7668186969.60	1.81	4.10	O.K	0.44	0.53	O.k	202320.00	4.14	0.10	0.12	16.43	0.08	0.10	0.34	O.k	0.85
421.80	15008929646.40	0.50	4.10	O.K	0.12	0.22	O.k	253080.00	4.39	0.10	0.12	20.89	0.08	0.02	0.34	O.k	0.15
421.80	15008929646.40	0.90	4.10	O.K	0.22	0.23	O.k	253080.00	4.33	0.10	0.12	20.89	0.08	0.05	0.34	O.k	0.45
421.80	15008929646.40	1.06	4.10	O.K	0.26	0.34	O.k	253080.00	4.36	0.10	0.12	20.89	0.08	0.05	0.34	O.k	0.45
1179.90	131409145231.92	1.03	4.10	O.K	0.25	0.45	O.k	283176.00	1.37	0.10	0.12	28.07	0.10	0.16	0.34	N.C	1.30
1179.90	131409145231.92	1.03	4.10	O.K	0.25	0.45	O.k	283176.00	1.37	0.10	0.12	28.07	0.10	0.16	0.34	N.C	1.30
1179.90	131409145231.92	1.03	4.10	O.K	0.25	0.45	O.k	283176.00	1.37	0.10	0.12	28.07	0.10	0.16	0.34	N.C	1.30
674.35	61331852307.58	0.69	4.10	O.K	0.17	0.25	O.k	404610.00	2.41	0.10	0.12	42.55	0.11	0.06	0.34	O.k	0.45
674.35	61331852307.58	0.79	4.10	O.K	0.19	0.27	O.k	404610.00	2.51	0.10	0.12	42.55	0.11	0.06	0.34	O.k	0.52
674.35	61331852307.58	0.79	4.10	O.K	0.19	0.27	O.k	404610.00	2.51	0.10	0.12	42.55	0.11	0.06	0.34	O.k	0.52
294.65	5116221423.93	1.12	4.10	O.K	0.27	0.39	O.k	176790.00	5.07	0.10	0.12	18.21	0.10	0.04	0.34	O.k	0.36
294.65	5116221423.93	1.21	4.10	O.K	0.30	0.32	O.k	176790.00	4.74	0.10	0.12	18.21	0.10	0.06	0.34	O.k	0.52
294.65	5116221423.93	1.21	4.10	O.K	0.30	0.32	O.k	176790.00	4.74	0.10	0.12	18.21	0.10	0.06	0.34	O.k	0.52
2223.00	2197092713400.00	0.69	4.10	O.K	0.17	0.22	O.k	1333800.00	1.06	0.10	0.12	119.81	0.09	0.14	0.34	N.C	1.16
2223.00	2197092713400.00	0.82	4.10	O.K	0.20	0.23	O.k	1333800.00	1.06	0.10	0.12	119.81	0.09	0.19	0.34	N.C	1.56
2223.00	2197092713400.00	0.82	4.10	O.K	0.20	0.23	O.k	1333800.00	1.06	0.10	0.12	119.81	0.09	0.19	0.34	N.C	1.56
455.95	20221360857.57	1.12	4.10	O.K	0.27	0.38	O.k	291808.00	3.38	0.10	0.12	27.10	0.09	0.07	0.34	O.k	0.56
455.95	20221360857.57	1.11	4.10	O.K	0.27	0.30	O.k	291808.00	3.20	0.10	0.12	27.10	0.09	0.09	0.34	O.k	0.71
455.95	20221360857.57	1.11	4.10	O.K	0.27	0.30	O.k	291808.00	3.20	0.10	0.12	27.10	0.09	0.09	0.34	O.k	0.71

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467.40	21783358725.12	0.32	4.10	O.K	0.08	0.15	O.k	299136.00	2.47	0.10	0.13	43.76	0.15	0.02	0.34	O.k	0.12
467.40	21783358725.12	0.82	4.10	O.K	0.20	0.26	O.k	299136.00	3.66	0.10	0.13	43.76	0.15	0.05	0.34	O.k	0.37
467.40	21783358725.12	0.82	4.10	O.K	0.20	0.26	O.k	299136.00	3.66	0.10	0.13	43.76	0.15	0.05	0.34	O.k	0.37
359.10	9261390814.20	0.28	4.10	O.K	0.07	0.11	O.k	215460.00	5.12	0.10	0.12	18.10	0.08	0.01	0.34	O.k	0.08
359.10	9261390814.20	0.87	4.10	O.K	0.21	0.25	O.k	215460.00	4.89	0.10	0.12	18.10	0.08	0.04	0.34	O.k	0.35
359.10	9261390814.20	0.87	4.10	O.K	0.21	0.25	O.k	215460.00	4.89	0.10	0.12	18.10	0.08	0.04	0.34	O.k	0.35
695.40	67256467732.80	2.34	4.10	O.K	0.57	0.77	O.k	417240.00	2.14	0.10	0.12	29.28	0.07	0.23	0.34	N.C	1.99
695.40	67256467732.80	2.34	4.10	O.K	0.57	0.77	O.k	417240.00	2.14	0.10	0.12	29.28	0.07	0.23	0.34	N.C	1.99
695.40	67256467732.80	2.34	4.10	O.K	0.57	0.77	O.k	417240.00	2.14	0.10	0.12	29.28	0.07	0.23	0.34	N.C	1.99
2658.45	4759680785817.29	0.84	4.10	O.K	0.20	0.29	O.k	2020422.00	0.73	0.10	0.12	159.99	0.08	0.23	0.34	N.C	1.92
2658.45	4759680785817.29	0.79	4.10	O.K	0.19	0.20	O.k	2020422.00	0.77	0.10	0.12	159.99	0.08	0.26	0.34	N.C	2.24
2658.45	4759680785817.29	0.79	4.10	O.K	0.19	0.20	O.k	2020422.00	0.77	0.10	0.12	159.99	0.08	0.26	0.34	N.C	2.24
387.00	11592120600.00	1.55	4.10	O.K	0.38	0.48	O.k	232200.00	3.25	0.10	0.12	19.87	0.09	0.11	0.34	O.k	0.89
387.00	11592120600.00	3.67	4.10	O.K	0.89	0.98	O.k	232200.00	3.26	0.10	0.12	19.87	0.09	0.28	0.34	N.C	2.33
387.00	11592120600.00	3.67	4.10	O.K	0.89	0.98	O.k	232200.00	3.26	0.10	0.12	19.87	0.09	0.28	0.34	N.C	2.33
1413.31	263478063519.66	1.78	4.10	O.K	0.43	0.74	O.k	395725.40	1.01	0.10	0.13	48.70	0.12	0.35	0.34	N.C	2.75
1413.31	263478063519.66	1.60	4.10	O.K	0.39	0.52	O.k	395725.40	0.98	0.10	0.13	48.70	0.12	0.38	0.34	N.C	2.99
1413.31	263478063519.66	1.60	4.10	O.K	0.39	0.52	O.k	395725.40	0.98	0.10	0.13	48.70	0.12	0.38	0.34	N.C	2.99
773.90	117421298186.15	1.08	4.10	O.K	0.26	0.37	O.k	588164.00	1.89	0.10	0.12	52.44	0.09	0.12	0.34	O.k	0.97
773.90	117421298186.15	1.08	4.10	O.K	0.26	0.37	O.k	588164.00	1.89	0.10	0.12	52.44	0.09	0.12	0.34	O.k	0.97
773.90	117421298186.15	1.10	4.10	O.K	0.27	0.36	O.k	588164.00	2.00	0.10	0.12	52.44	0.09	0.11	0.34	O.k	0.96
1345.20	519301162967.04	1.21	4.10	O.K	0.30	0.39	O.k	860928.00	1.60	0.10	0.12	92.17	0.11	0.16	0.34	N.C	1.32
1345.20	519301162967.04	1.21	4.10	O.K	0.30	0.39	O.k	860928.00	1.60	0.10	0.12	92.17	0.11	0.16	0.34	N.C	1.32
1345.20	519301162967.04	1.21	4.10	O.K	0.30	0.39	O.k	860928.00	1.60	0.10	0.12	92.17	0.11	0.16	0.34	N.C	1.32
1065.90	242202924235.80	0.83	4.10	O.K	0.20	0.25	O.k	639540.00	2.11	0.10	0.12	67.58	0.11	0.09	0.34	O.k	0.72
1065.90	242202924235.80	1.05	4.10	O.K	0.26	0.31	O.k	639540.00	2.15	0.10	0.12	67.58	0.11	0.11	0.34	O.k	0.93
1065.90	242202924235.80	1.05	4.10	O.K	0.26	0.31	O.k	639540.00	2.15	0.10	0.12	67.58	0.11	0.11	0.34	O.k	0.93

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Índice de sobreesfuerzo a Cortante

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8.12 Cubierta

8.12.1 Análisis de Viento

 <p>CORPACERO Pioneros, Líderes y Expertos</p>	Memorias de cálculo ANÁLISIS DE CARGAS DE VIENTO NSR - 10 (Procedimiento Analítico)	Fecha diciembre 2 / 2022
	Proyecto 716-HSJD-JARDÍN INFANTIL	Aprobó

Fuerzas de Viento NSR-10

Análisis para Etapa:	Funcionamiento
Tipo Edificación:	Componentes y Revestimientos
Sistema Estructural:	Muros de Rigidez en Concreto
Clasificación de la Estructura:	Cerrado
Altura media de Cubierta (m):	4.5579
Tipo de Elemento de Revestimiento:	Cubiertas
Tipo de Cubierta del Elemento:	Cubiertas a dos aguas una sola luz
Longitud del Elemento (m):	4.33
Ancho Aferente del Elemento (m):	1.97
Dimensión Horizontal de la Estructura (Paralela al Viento) (L) (m):	4.5
Dimensión Horizontal de la Estructura (Normal al Viento) (B) (m):	15.06
Ángulo de la Cubierta (°)	24
Velocidad de Viento Básica (Km/h) (Ver Mapa):	100
Grupo de Uso de la Estructura:	III
Región de la Estructura (m):	Región sin huracanes
Rugosidad del Terreno:	Rugosidad B
Categoría de Exposición:	B
La Estructura cumple TODOS los Efectos Topográficos (Ver Ayuda): No	

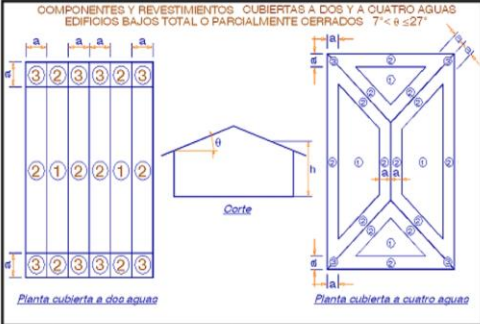
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NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

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 <p>CORPACERO Pioneros, Líderes y Expertos</p>	Memorias de cálculo ANÁLISIS DE CARGAS DE VIENTO NSR - 10 (Procedimiento Analítico)	Fecha diciembre 2 / 2022
	Proyecto 716-HSJD-JARDÍN INFANTIL	Aprobó

TIPO DE ESTRUCTURA:	Componentes y Revestimientos
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Tipo de Cubierta a la que pertenece el Elemento (TIPO DE CUBIERTA):	Cubiertas a dos aguas una sola luz
Longitud del Elemento (m):	4.33
Aferencia del Elemento (Separación entre Correas) (m):	1.97
Área Efectiva contra Viento (m²):	6.25
Altura Media de la Estructura (h) (m):	4.56
Dimensión Horizontal de la Estructura (Paralela al Viento) (L) (m):	4.5
Dimensión Horizontal de la Estructura (Normal al Viento) (B) (m):	15.06
Ángulo de Inclinación de la Cubierta (Barlovento) :	24
Ángulo de Inclinación de la Cubierta (Sotavento) :	0
Período del Edificio (T) (seg):	0.15
Clasificación de la Estructura:	
ESTRUCTURA:	RIGIDA
EDIFICIO:	Cerrado
EDIFICIO:	Bajo
FLUJO DE VIENTO:	
TIPO DE CUBIERTA:	Una Pendiente
Velocidad de Viento Básica (Según Mapa) (V) (m/s):	28
Factor de Dirección de Viento (Kd):	0.85
Uso de la Estructura (grupo):	III
Tipo de Región de la Estructura (Clase):	Región sin huracanes
Factor de Importancia (I):	1.15

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NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

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 <p>CORPACERO Pioneros, Líderes y Expertos</p>	<p>Memorias de cálculo</p> <p>ANÁLISIS DE CARGAS DE VIENTO NSR - 10 (Procedimiento Analítico)</p> <p>Proyecto</p> <p>716-HSJD-JARDÍN INFANTIL</p>	<p>Fecha</p> <p>diciembre 2 / 2022</p> <p>Aprobó</p>
<p>Rugosidad de Terreno :</p> <p>Altura de la Estructura por encima del Terreno (Z) (m):</p> <p>Exponente para la ley potencial de la velocidad de ráfaga de 3 seg. (α) (-):</p> <p>Altura nominal de la Capa Atmosférica Limite (Zg) (m):</p> <p>Categoría de Exposición :</p> <p>Coeficiente de Exposición de Presión por Velocidad (Kh):</p> <p>Su Estructura cumple TODOS los Efectos Topográficos:</p> <p>Factor Topográfico (Kzt):</p> <p>Altura Equivalente de la Estructura (Zb) (m):</p> <p>Factor de Escala de Longitud Integral (I) (m):</p> <p>Exponente para la Ley Potencial (ϵ_b) (-):</p> <p>Longitud Integral a Escala de la Turbulencia (Lzb) (m):</p> <p>Factor de Respuesta del Entorno (Q) (-):</p> <p>Intensidad de Turbulencia a la Altura zb (I_{zb}) (-):</p> <p>Factor Pico para Respuesta del Entorno y Viento respectivamente ($g_Q = g_v$) (-):</p> <p>Velocidad de Viento Promedia por una hora a una altura z (V_{bzb}) (m/s):</p> <p>Coeficiente de Amortiguamiento Crítico (β) (-):</p> <p>Frecuencia Natural del Edificio (η_1) (Hz):</p> <p>Frecuencia para RL (η_{RL}) (Hz):</p> <p>Frecuencia para RB (η_{RB}) (Hz):</p> <p>Frecuencia para Rh (η_{Rh}) (Hz):</p> <p>Factor de Respuesta para L (RL) (-):</p> <p>Factor de Respuesta para B (RB) (-):</p> <p>Factor de Respuesta para h (Rh) (-):</p> <p>Frecuencia Reducida (N1) (-):</p> <p>Valor (Rn) (-):</p> <p>Factor de Respuesta de Resonancia (R) (-):</p> <p>Factor Pico para Respuesta de Resonancia (g_R) (-):</p> <p>Presión de Velocidad (qh) (Kg/m²):</p> <p>Factor de Efecto Ráfaga (G) (-):</p>	<p>Rugosidad B</p> <p>9</p> <p>7</p> <p>365.8</p> <p>B</p> <p>0.7</p> <p>No</p> <p>1</p> <p>9</p> <p>97.5</p> <p>1/3</p> <p>94.14</p> <p>0.901</p> <p>0.305</p> <p>3.4</p> <p>12.272</p> <p>0.02</p> <p>6.54</p> <p>36.93</p> <p>36.917</p> <p>11.178</p> <p>0.027</p> <p>0.027</p> <p>0.085</p> <p>50.165</p> <p>0.011</p> <p>0.026</p> <p>4.616</p> <p>32.762</p> <p>0.867</p>	
<p>CORPACERO S.A. - Corpasoft 3 - 2022</p> <p>Bogotá: Cra. 68 #23-52 / PBX: 57(1) 446 4100 / Fax: 57(1) 446 4140 - corpasoft@corpacero.com</p>		<p>3</p>

NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

<p>Versión:</p> <p>V 3.0</p>	<p>Fecha:</p> <p>28/02/2023</p>	<p>Documento:</p> <p>Informe de Vulnerabilidad Edificio Jardín Infantil</p>	<p>Página:</p> <p>330</p>
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 <p>CORPACERO Pioneros, Líderes y Expertos</p>	Memorias de cálculo	Fecha
	ANÁLISIS DE CARGAS DE VIENTO NSR - 10 (Procedimiento Analítico)	diciembre 2 / 2022
	Proyecto	Aprobó
	716-HSJD-JARDÍN INFANTIL	

Coeficiente de Presión Interna (GCpi+) (-): 0.18

Coeficiente de Presión Interna (GCpi-) (-): -0.18

a (m): 1

Coeficientes de Presión Externa CUBIERTA Edificios Bajos (C & R):

Zona 1	GCp+ (-)	0.35
	GCp- (-)	-0.835
Zona 2	GCp+ (-)	0.35
	GCp- (-)	-1.315
Zona 2'	GCp+ (-)	0.00
	GCp- (-)	0.00
Zona 3	GCp+ (-)	0.35
	GCp- (-)	-2.144
Zona 3'	GCp+ (-)	0.00
	GCp- (-)	0.00

Coeficientes de Presión Externa ALEROS Edificios Bajos (C & R):

Zona 1	GCp- (-)	0.00
Zona 2	GCp- (-)	-2.2
Zona 3	GCp- (-)	-2.763

Presiones de Diseño CUBIERTA (Cubiertas a dos y a cuatro aguas $7^\circ < \theta \leq 27^\circ$) Edificios Bajos (C & R):

Zona 1	P. Dis. con GCp+ y con GCpi+ (kg/m²)	5.57
	P. Dis. con GCp+ y con GCpi- (kg/m²)	17.364
	P. Dis. con GCp- y con GCpi+ (kg/m²)	-33.254
	P. Dis. con GCp- y con GCpi- (kg/m²)	-21.453
Zona 2	P. Dis. con GCp+ y con GCpi+ (kg/m²)	5.57
	P. Dis. con GCp+ y con GCpi- (kg/m²)	17.364
	P. Dis. con GCp- y con GCpi+ (kg/m²)	-48.98
	P. Dis. con GCp- y con GCpi- (kg/m²)	-37.185
Zona 3	P. Dis. con GCp+ y con GCpi+ (kg/m²)	5.57
	P. Dis. con GCp+ y con GCpi- (kg/m²)	17.364
	P. Dis. con GCp- y con GCpi+ (kg/m²)	-76.14
	P. Dis. con GCp- y con GCpi- (kg/m²)	-64.345

*El NSR-10 [B.6.1.3] estipula que la presión de diseño no será menor de 0.40kN/m² (40 kg/m²)

NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

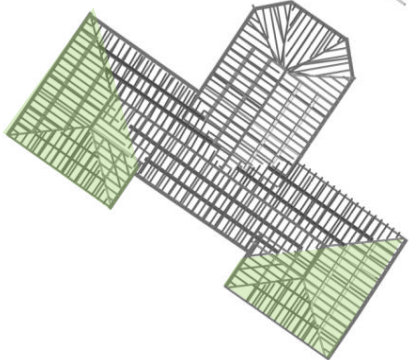
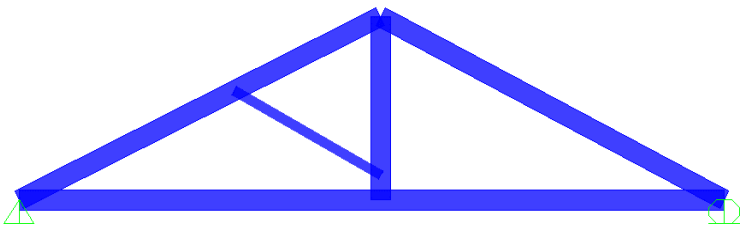
Versión: V 3.0	Fecha: 28/02/2023	Documento: Informe de Vulnerabilidad Edificio Jardín Infantil	Página: 331
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NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

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1.	1.00 CM							
2.	1.00 CM	+	1.00 CV					
3.	1.00 CM				+	1.00 G	C.M.	= Carga Muerta
4.	1.00 CM	+	0.75 CV				C.V.	= Carga Viva
5.	1.00 CM				+	0.75 G	W	= Carga de viento
6.	1.00 CM			+	1.00 W		G	= Carga Granizo
7.	1.00 CM			-	1.00 W			
8.	1.00 CM	+	0.75 CV	+	0.75 W			
9.	1.00 CM	+	0.75 CV	-	0.75 W			
10.	1.00 CM			+	0.75 W	+	0.75 G	
11.	1.00 CM			-	0.75 W	+	0.75 G	
12.	0.60 CM			+	1.00 W			
13.	0.60 CM			-	1.00 W			

8.12.3 Cerchas Esquina

CERCHA JARDIN INFANTIL - ESQUINAS		
		
Corresponde al analisis de las cerchas ubicadas en las esquinas del edificio Jardín Infantil, perteneciente al Grupo 2 del Hospital San Juan de Dios		
EVALUACION DE CARGAS		
Carga Muerta Adicional (CM)		
Teja de arcilla incluye mo	80.00	Kg/m ²
Sistema de suspensión d	15.00	Kg/m ²
Capa impermeabilización	3.00	Kg/m ²
Cielo Raso entramado metá	50.00	Kg/m ²
	148.00	Kg/m ²
Carga Viva (CV)		
	50	Kg/m ²
Carga Granizo (G)		
	50	Kg/m ²
Carga De Viento (W)		
Según Analisis de viento		
		
Carga= 48.98 Kg/m ²		

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CARGAS SOBRE CORREAS

TIPO	LONG. AFERENTE (m)	CM (Kg/m)	CV (Kg/m)	G (Kg/m)	W (Kg/m)
Alfardas	0.50	74.00	25.00	25.00	24.49

Luz 1.67

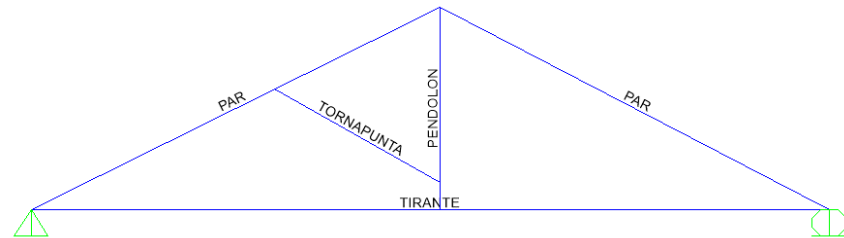
TIPO	LONG. AFERENTE (m)	CM (Kg)	CV (Kg)	G (Kg)	W (Kg)
Correas	2.37	61.79	20.88	20.88	20.45

REVISIÓN ELEMENTOS DE MADERA CERCHA JARDIN INFANTIL - ESQUINAS

SECCIÓN DE LOS ELEMENTOS:	b	h	# Elementos	Area
TIRANTE	0.090 m	0.200 m	1	0.018 m ²
PAR	0.090 m	0.200 m	1	0.018 m ²
PENDOLON	0.140 m	0.200 m	1	0.028 m ²
TORNAPUNTA	0.000 m	0.100 m	1	0.0079 m ²

	Mmax	Vmax
TIRANTE	1.27 Ton*m	1.762 Ton
PAR	1.27 Ton*m	1.762 Ton
PENDOLON	1.97 Ton*m	2.741 Ton
TORNAPUNTA	0.21 Ton*m	3.460 Ton

Grupo de uso		ES3
Esfuerzo	MPa	Ton/m ²
Fb	20.700	2110.81
Ft	15.300	1560.17
Fc	17.100	1743.71
Fp	3.800	387.49
Fv	1.440	146.84
E0.5	14000.000	1427602.70
E0.05	11000.000	1121687.83
Emin	5500.000	560843.92



Frame	Station	COMB	P	V2	M3	FrameElem	AREA	tension		compresion		flexion		Cortante		flexo-tensión			flexo-compresión		
								ft	fc	fb	fv	fb	fv	fb	fv	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2
Text	m	Text	Tonf	Tonf	Tonf-m	Text	m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2						
1	0.00	0.00 ENVDIS Max	3.63	0.04	0.16	TIRANTE	0.0180	201.672	o.k	0.00	o.k	272.10	o.k	3.46	o.k	0.26	0.03	o.k	0.00	o.k	0.00
1	0.73	0.73 ENVDIS Max	3.63	0.05	0.13	TIRANTE	0.0180	201.672	o.k	0.00	o.k	215.88	o.k	4.22	o.k	0.23	0.01	o.k	0.00	o.k	0.00
1	1.46	0.73 ENVDIS Max	3.63	0.06	0.09	TIRANTE	0.0180	201.672	o.k	0.00	o.k	148.45	o.k	5.00	o.k	0.20	-0.03	o.k	0.00	o.k	0.00
1	2.19	0.73 ENVDIS Max	3.63	0.07	0.04	TIRANTE	0.0180	201.672	o.k	0.00	o.k	69.78	o.k	5.77	o.k	0.16	-0.06	o.k	0.00	o.k	0.00
1	2.92	0.73 ENVDIS Max	3.63	0.08	0.00	TIRANTE	0.0180	201.672	o.k	0.00	o.k	3.47	o.k	6.53	o.k	0.13	-0.09	o.k	0.00	o.k	0.00
1	3.66	0.73 ENVDIS Max	3.63	0.09	-0.02	TIRANTE	0.0180	201.672	o.k	0.00	o.k	32.63	o.k	7.30	o.k	0.14	-0.08	o.k	0.00	o.k	0.00
1	3.75	0.10 ENVDIS Max	3.63	0.09	-0.02	TIRANTE	0.0180	201.672	o.k	0.00	o.k	36.92	o.k	7.40	o.k	0.15	-0.08	o.k	0.00	o.k	0.00
1	3.75	0.10 ENVDIS Max	2.98	-0.04	-0.03	TIRANTE	0.0180	165.800	o.k	0.00	o.k	57.20	o.k	3.57	o.k	0.13	-0.05	o.k	0.00	o.k	0.00
1	4.39	0.64 ENVDIS Max	2.98	-0.04	-0.01	TIRANTE	0.0180	165.800	o.k	0.00	o.k	14.42	o.k	3.16	o.k	0.11	-0.07	o.k	0.00	o.k	0.00
1	5.12	0.73 ENVDIS Max	2.98	-0.03	0.08	TIRANTE	0.0180	165.800	o.k	0.00	o.k	125.50	o.k	2.70	o.k	0.17	-0.02	o.k	0.00	o.k	0.00
1	5.85	0.73 ENVDIS Max	2.98	-0.03	0.19	TIRANTE	0.0180	165.800	o.k	0.00	o.k	308.42	o.k	2.24	o.k	0.25	0.07	o.k	0.00	o.k	0.00
1	5.85	0.73 ENVDIS Max	2.98	-0.03	0.19	TIRANTE	0.0180	165.800	o.k	0.00	o.k	308.42	o.k	2.24	o.k	0.25	0.07	o.k	0.00	o.k	0.00
1	6.58	0.73 ENVDIS Max	2.98	-0.02	0.29	TIRANTE	0.0180	165.800	o.k	0.00	o.k	480.12	o.k	1.78	o.k	0.33	0.15	o.k	0.00	o.k	0.00
1	7.31	0.00 ENVDIS Max	2.98	-0.02	0.38	TIRANTE	0.0180	165.800	o.k	0.00	o.k	640.58	o.k	1.32	o.k	0.41	0.22	o.k	0.00	o.k	0.00

CONSORCIO

CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

1	0.00	0.00	ENVDIS Min	0.73	0.00	0.03	TIRANTE	0.0180	40.494	o.k	0.00	o.k	45.85	o.k	0.08	o.k	0.05	0.00	o.k	0.00	o.k
1	0.73	0.73	ENVDIS Min	0.73	0.00	0.03	TIRANTE	0.0180	40.494	o.k	0.00	o.k	43.62	o.k	0.38	o.k	0.05	0.00	o.k	0.00	o.k
1	1.46	0.73	ENVDIS Min	0.73	0.01	0.02	TIRANTE	0.0180	40.494	o.k	0.00	o.k	34.65	o.k	0.84	o.k	0.04	0.00	o.k	0.00	o.k
1	2.19	0.73	ENVDIS Min	0.73	0.02	0.01	TIRANTE	0.0180	40.494	o.k	0.00	o.k	18.95	o.k	1.30	o.k	0.03	-0.01	o.k	0.00	o.k
1	2.92	0.73	ENVDIS Min	0.73	0.02	-0.01	TIRANTE	0.0180	40.494	o.k	0.00	o.k	20.08	o.k	1.77	o.k	0.04	-0.01	o.k	0.00	o.k
1	3.66	0.73	ENVDIS Min	0.73	0.03	-0.07	TIRANTE	0.0180	40.494	o.k	0.00	o.k	121.18	o.k	2.22	o.k	0.08	0.04	o.k	0.00	o.k
1	3.75	0.10	ENVDIS Min	0.73	0.03	-0.08	TIRANTE	0.0180	40.494	o.k	0.00	o.k	135.15	o.k	2.28	o.k	0.09	0.04	o.k	0.00	o.k
1	3.75	0.10	ENVDIS Min	0.60	-0.17	-0.15	TIRANTE	0.0180	33.561	o.k	0.00	o.k	246.67	o.k	14.33	o.k	0.14	0.10	o.k	0.00	o.k
1	4.39	0.64	ENVDIS Min	0.60	-0.16	-0.04	TIRANTE	0.0180	33.561	o.k	0.00	o.k	68.63	o.k	13.67	o.k	0.05	0.02	o.k	0.00	o.k
1	5.12	0.73	ENVDIS Min	0.60	-0.15	0.02	TIRANTE	0.0180	33.561	o.k	0.00	o.k	28.45	o.k	12.89	o.k	0.03	0.00	o.k	0.00	o.k
1	5.85	0.73	ENVDIS Min	0.60	-0.15	0.04	TIRANTE	0.0180	33.561	o.k	0.00	o.k	64.58	o.k	12.12	o.k	0.05	0.01	o.k	0.00	o.k
1	5.85	0.73	ENVDIS Min	0.60	-0.15	0.04	TIRANTE	0.0180	33.561	o.k	0.00	o.k	64.58	o.k	12.12	o.k	0.05	0.01	o.k	0.00	o.k
1	6.58	0.73	ENVDIS Min	0.60	-0.14	0.06	TIRANTE	0.0180	33.561	o.k	0.00	o.k	93.98	o.k	11.36	o.k	0.07	0.03	o.k	0.00	o.k
1	7.31	0.00	ENVDIS Min	0.60	-0.13	0.07	TIRANTE	0.0180	33.561	o.k	0.00	o.k	116.65	o.k	10.59	o.k	0.08	0.04	o.k	0.00	o.k
2	0.00	0.00	ENVDIS Max	-0.53	-0.11	-0.06	PAR	0.0180	-	-	29.65	o.k	103.47	o.k	8.87	o.k	-	-	o.k	0.00	o.k
2	0.42	0.42	ENVDIS Max	-0.55	-0.06	-0.03	PAR	0.0180	-	-	30.81	o.k	43.97	o.k	5.36	o.k	-	-	o.k	0.02	o.k
2	0.84	0.42	ENVDIS Max	-0.58	-0.02	-0.01	PAR	0.0180	-	-	31.96	o.k	13.83	o.k	1.85	o.k	-	-	o.k	0.01	o.k
2	1.25	0.42	ENVDIS Max	-0.60	0.11	-0.01	PAR	0.0180	-	-	33.12	o.k	13.07	o.k	8.77	o.k	-	-	o.k	0.01	o.k
2	1.67	0.42	ENVDIS Max	-0.62	0.33	-0.02	PAR	0.0180	-	-	34.27	o.k	41.65	o.k	27.37	o.k	-	-	o.k	0.02	o.k
2	1.70	0.02	ENVDIS Max	-0.62	0.34	-0.03	PAR	0.0180	-	-	34.33	o.k	44.03	o.k	28.37	o.k	-	-	o.k	0.02	o.k
2	1.70	0.02	ENVDIS Max	-0.75	-0.12	-0.03	PAR	0.0180	-	-	41.73	o.k	44.03	o.k	10.40	o.k	-	-	o.k	0.02	o.k
2	2.09	0.40	ENVDIS Max	-0.77	-0.09	0.08	PAR	0.0180	-	-	42.83	o.k	130.15	o.k	7.08	o.k	-	-	o.k	0.06	o.k
2	2.51	0.42	ENVDIS Max	-0.79	-0.04	0.22	PAR	0.0180	-	-	43.98	o.k	360.62	o.k	3.57	o.k	-	-	o.k	0.17	o.k
2	2.93	0.42	ENVDIS Max	-0.81	0.00	0.26	PAR	0.0180	-	-	45.14	o.k	435.63	o.k	0.32	o.k	-	-	o.k	0.21	o.k
2	3.35	0.42	ENVDIS Max	-0.83	0.23	0.21	PAR	0.0180	-	-	46.29	o.k	355.18	o.k	18.92	o.k	-	-	o.k	0.17	o.k
2	3.76	0.42	ENVDIS Max	-0.85	0.45	0.07	PAR	0.0180	-	-	47.45	o.k	119.28	o.k	37.50	o.k	-	-	o.k	0.06	o.k
2	4.18	0.00	ENVDIS Max	-0.87	0.67	-0.03	PAR	0.0180	-	-	48.60	o.k	45.85	o.k	56.09	o.k	-	-	o.k	0.00	o.k
2	0.00	0.00	ENVDIS Min	-2.59	-0.56	-0.33	PAR	0.0180	-	-	143.92	o.k	546.53	o.k	46.99	o.k	-	-	o.k	0.00	o.k
2	0.42	0.42	ENVDIS Min	-2.70	-0.34	-0.14	PAR	0.0180	-	-	150.03	o.k	231.30	o.k	28.40	o.k	-	-	o.k	0.12	o.k
2	0.84	0.42	ENVDIS Min	-2.81	-0.12	-0.04	PAR	0.0180	-	-	156.14	o.k	71.52	o.k	9.81	o.k	-	-	o.k	0.04	o.k
2	1.25	0.42	ENVDIS Min	-2.92	0.02	-0.04	PAR	0.0180	-	-	162.26	o.k	67.20	o.k	1.67	o.k	-	-	o.k	0.04	o.k
2	1.67	0.42	ENVDIS Min	-3.03	0.06	-0.13	PAR	0.0180	-	-	168.37	o.k	218.35	o.k	5.17	o.k	-	-	o.k	0.11	o.k
2	1.70	0.02	ENVDIS Min	-3.04	0.06	-0.14	PAR	0.0180	-	-	168.71	o.k	230.95	o.k	5.37	o.k	-	-	o.k	0.12	o.k
2	1.70	0.02	ENVDIS Min	-3.73	-0.65	-0.14	PAR	0.0180	-	-	206.97	o.k	230.95	o.k	54.43	o.k	-	-	o.k	0.12	o.k
2	2.09	0.40	ENVDIS Min	-3.83	-0.44	0.02	PAR	0.0180	-	-	212.76	o.k	25.12	o.k	36.85	o.k	-	-	o.k	0.03	o.k
2	2.51	0.42	ENVDIS Min	-3.94	-0.22	0.04	PAR	0.0180	-	-	218.87	o.k	69.65	o.k	18.27	o.k	-	-	o.k	0.05	o.k
2	2.93	0.42	ENVDIS Min	-4.05	0.00	0.05	PAR	0.0180	-	-	224.98	o.k	84.83	o.k	0.06	o.k	-	-	o.k	0.06	o.k

CONSORCIO

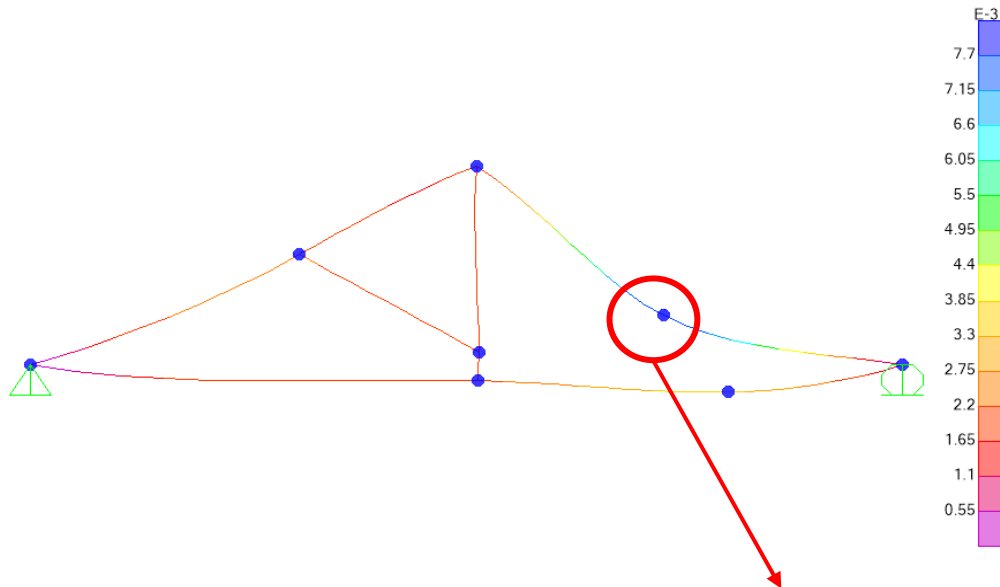
CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

2	3.35	0.42	ENVDIS Min	-4.16	0.04	0.04	PAR	0.0180	-	-	231.10	o.k	70.63	o.k	3.45	o.k	-	-	o.k	0.05	o.k
2	3.76	0.42	ENVDIS Min	-4.27	0.08	0.02	PAR	0.0180	-	-	237.21	o.k	27.08	o.k	6.97	o.k	-	-	o.k	0.03	o.k
2	4.18	0.00	ENVDIS Min	-4.38	0.13	-0.16	PAR	0.0180	-	-	243.32	o.k	272.10	o.k	10.47	o.k	-	-	o.k	0.00	o.k
4	0.00	0.00	ENVDIS Max	0.26	0.65	-0.01	PENDOLON	0.0280	9.311	o.k	0.00	o.k	20.28	o.k	34.59	o.k	0.02	0.01	o.k	0.00	o.k
4	0.19	0.19	ENVDIS Max	0.26	0.65	-0.04	PENDOLON	0.0280	9.443	o.k	0.00	o.k	58.78	o.k	34.59	o.k	0.03	0.02	o.k	0.00	o.k
4	0.25	0.07	ENVDIS Max	0.27	0.65	-0.04	PENDOLON	0.0280	9.486	o.k	0.00	o.k	72.32	o.k	34.59	o.k	0.04	0.03	o.k	0.00	o.k
4	0.25	0.07	ENVDIS Max	0.86	-0.08	-0.04	PENDOLON	0.0280	30.771	o.k	0.00	o.k	72.32	o.k	4.19	o.k	0.05	0.02	o.k	0.00	o.k
4	0.37	0.12	ENVDIS Max	0.86	-0.08	-0.03	PENDOLON	0.0280	30.857	o.k	0.00	o.k	56.65	o.k	4.19	o.k	0.05	0.01	o.k	0.00	o.k
4	0.56	0.19	ENVDIS Max	0.87	-0.08	-0.02	PENDOLON	0.0280	30.986	o.k	0.00	o.k	32.50	o.k	4.19	o.k	0.04	0.00	o.k	0.00	o.k
4	0.74	0.19	ENVDIS Max	0.87	-0.08	-0.01	PENDOLON	0.0280	31.114	o.k	0.00	o.k	8.35	o.k	4.19	o.k	0.02	-0.01	o.k	0.00	o.k
4	0.93	0.19	ENVDIS Max	0.87	-0.08	0.05	PENDOLON	0.0280	31.246	o.k	0.00	o.k	82.63	o.k	4.19	o.k	0.06	0.02	o.k	0.00	o.k
4	1.11	0.19	ENVDIS Max	0.88	-0.08	0.13	PENDOLON	0.0280	31.375	o.k	0.00	o.k	209.58	o.k	4.19	o.k	0.12	0.08	o.k	0.00	o.k
4	1.30	0.19	ENVDIS Max	0.88	-0.08	0.20	PENDOLON	0.0280	31.504	o.k	0.00	o.k	336.53	o.k	4.19	o.k	0.18	0.14	o.k	0.00	o.k
4	1.48	0.19	ENVDIS Max	0.89	-0.08	0.28	PENDOLON	0.0280	31.632	o.k	0.00	o.k	463.48	o.k	4.19	o.k	0.24	0.20	o.k	0.00	o.k
4	1.67	0.19	ENVDIS Max	0.89	-0.08	0.35	PENDOLON	0.0280	31.764	o.k	0.00	o.k	590.43	o.k	4.19	o.k	0.30	0.26	o.k	0.00	o.k
4	1.85	0.00	ENVDIS Max	0.89	-0.08	0.43	PENDOLON	0.0280	31.893	o.k	0.00	o.k	717.37	o.k	4.19	o.k	0.36	0.32	o.k	0.00	o.k
4	0.00	0.00	ENVDIS Min	0.07	0.12	-0.07	PENDOLON	0.0280	2.507	o.k	0.00	o.k	111.52	o.k	6.69	o.k	0.05	0.05	o.k	0.00	o.k
4	0.19	0.19	ENVDIS Min	0.07	0.12	-0.19	PENDOLON	0.0280	2.586	o.k	0.00	o.k	310.60	o.k	6.69	o.k	0.15	0.15	o.k	0.00	o.k
4	0.25	0.07	ENVDIS Min	0.07	0.12	-0.23	PENDOLON	0.0280	2.611	o.k	0.00	o.k	380.55	o.k	6.69	o.k	0.18	0.18	o.k	0.00	o.k
4	0.25	0.07	ENVDIS Min	0.19	-0.41	-0.23	PENDOLON	0.0280	6.771	o.k	0.00	o.k	380.55	o.k	22.06	o.k	0.18	0.18	o.k	0.00	o.k
4	0.37	0.12	ENVDIS Min	0.19	-0.41	-0.18	PENDOLON	0.0280	6.821	o.k	0.00	o.k	298.20	o.k	22.06	o.k	0.15	0.14	o.k	0.00	o.k
4	0.56	0.19	ENVDIS Min	0.19	-0.41	-0.10	PENDOLON	0.0280	6.900	o.k	0.00	o.k	171.25	o.k	22.06	o.k	0.09	0.08	o.k	0.00	o.k
4	0.74	0.19	ENVDIS Min	0.20	-0.41	-0.03	PENDOLON	0.0280	6.979	o.k	0.00	o.k	44.32	o.k	22.06	o.k	0.03	0.02	o.k	0.00	o.k
4	0.93	0.19	ENVDIS Min	0.20	-0.41	0.01	PENDOLON	0.0280	7.054	o.k	0.00	o.k	15.80	o.k	22.06	o.k	0.01	0.00	o.k	0.00	o.k
4	1.11	0.19	ENVDIS Min	0.20	-0.41	0.02	PENDOLON	0.0280	7.132	o.k	0.00	o.k	39.95	o.k	22.06	o.k	0.02	0.02	o.k	0.00	o.k
4	1.30	0.19	ENVDIS Min	0.20	-0.41	0.04	PENDOLON	0.0280	7.211	o.k	0.00	o.k	64.10	o.k	22.06	o.k	0.03	0.03	o.k	0.00	o.k
4	1.48	0.19	ENVDIS Min	0.20	-0.41	0.05	PENDOLON	0.0280	7.289	o.k	0.00	o.k	88.25	o.k	22.06	o.k	0.05	0.04	o.k	0.00	o.k
4	1.67	0.19	ENVDIS Min	0.21	-0.41	0.07	PENDOLON	0.0280	7.364	o.k	0.00	o.k	112.38	o.k	22.06	o.k	0.06	0.05	o.k	0.00	o.k
4	1.85	0.00	ENVDIS Min	0.21	-0.41	0.08	PENDOLON	0.0280	7.443	o.k	0.00	o.k	136.53	o.k	22.06	o.k	0.07	0.06	o.k	0.00	o.k
5	0.00	0.00	ENVDIS Max	-0.23	0.00	0.00	TORNAPUNTA	0.0079	-	-	29.82	o.k	0.00	-	0.48	o.k	-	-	o.k	0.00	o.k
5	0.87	0.87	ENVDIS Max	-0.23	0.00	0.00	TORNAPUNTA	0.0079	-	-	29.64	o.k	3.03	o.k	0.00	o.k	-	-	o.k	0.00	o.k
5	1.74	0.00	ENVDIS Max	-0.23	0.00	0.00	TORNAPUNTA	0.0079	-	-	29.46	o.k	0.00	o.k	0.80	o.k	-	-	o.k	0.00	o.k
5	0.00	0.00	ENVDIS Min	-1.21	0.00	0.00	TORNAPUNTA	0.0079	-	-	154.55	o.k	0.00	-	0.80	o.k	-	-	o.k	0.00	o.k
5	0.87	0.87	ENVDIS Min	-1.21	0.00	0.00	TORNAPUNTA	0.0079	-	-	154.24	o.k	1.82	o.k	0.00	o.k	-	-	o.k	0.01	o.k
5	1.74	0.00	ENVDIS Min	-1.21	0.00	0.00	TORNAPUNTA	0.0079	-	-	153.95	o.k	0.00	o.k	0.48	o.k	-	-	o.k	0.00	o.k
6	0.00	0.00	ENVDIS Max	-0.78	-0.18	-0.07	PAR	0.0180	-	-	43.06	o.k	116.65	o.k	15.13	o.k	-	-	o.k	0.00	o.k
6	0.40	0.40	ENVDIS Max	-0.75	-0.14	-0.01	PAR	0.0180	-	-	41.91	o.k	8.62	o.k	11.80	o.k	-	-	o.k	0.00	o.k
6	0.80	0.40	ENVDIS Max	-0.73	-0.10	0.22	PAR	0.0180	-	-	40.75	o.k	367.57	o.k	8.47	o.k	-	-	o.k	0.17	o.k
6	1.20	0.40	ENVDIS Max	-0.71	-0.06	0.40	PAR	0.0180	-	-	39.60	o.k	659.23	o.k	5.13	o.k	-	-	o.k	0.31	o.k
6	1.60	0.40	ENVDIS Max	-0.69	-0.02	0.49	PAR	0.0180	-	-	38.44	o.k	809.30	o.k	1.80	o.k	-	-	o.k	0.38	o.k
6	2.01	0.40	ENVDIS Max	-0.67	0.09	0.49	PAR	0.0180	-	-	37.29	o.k	817.77	o.k	7.77	o.k	-	-	o.k	0.39	o.k
6	2.01	0.40	ENVDIS Max	-0.67	0.09	0.49	PAR	0.0180	-	-	37.29	o.k	817.77	o.k	7.77	o.k	-	-	o.k	0.39	o.k
6	2.41	0.40	ENVDIS Max	-0.65	0.31	0.41	PAR	0.0180	-	-	36.13	o.k	684.63	o.k	25.42	o.k	-	-	o.k	0.32	o.k
6	2.81	0.40	ENVDIS Max	-0.63	0.52	0.25	PAR	0.0180	-	-	34.98	o.k	409.90	o.k	43.07	o.k	-	-	o.k	0.19	o.k
6	3.21	0.40	ENVDIS Max	-0.61	0.73	0.00	PAR	0.0180	-	-	33.82	o.k	1.37	o.k	60.71	o.k	-	-	o.k	0.00	o.k
6	3.61	0.40	ENVDIS Max	-0.59	0.94	-0.06	PAR	0.0180	-	-	32.67	o.k	107.30	o.k	78.36	o.k	-	-	o.k	0.05	o.k
6	4.01	0.00	ENVDIS Max	-0.57	1.15	-0.14	PAR	0.0180	-	-	31.51	o.k	240.00	o.k	96.01	o.k	-	-	o.k	0.00	o.k
6	0.00	0.00	ENVDIS Min	-3.87	-0.97	-0.38	PAR	0.0180	-	-	214.73	o.k	640.58	o.k	80.47	o.k	-	-	o.k	0.00	o.k
6	0.40	0.40	ENVDIS Min	-3.76	-0.75	-0.04	PAR	0.0180	-	-	208.62	o.k	65.72	o.k	62.82	o.k	-	-	o.k	0.05	o.k
6	0.80	0.40	ENVDIS Min	-3.65	-0.54	0.04	PAR	0.0180	-	-	202.50	o.k	72.65	o.k	45.17	o.k	-	-	o.k	0.05	o.k
6	1.20	0.40	ENVDIS Min	-3.54	-0.33	0.08	PAR	0.0180	-	-	196.39	o.k	127.18	o.k	27.52	o.k	-	-	o.k	0.07	o.k
6	1.60	0.40	ENVDIS Min	-3.42	-0.12	0.09	PAR	0.0180	-	-	190.27	o.k	154.97	o.k	9.87	o.k	-	-	o.k	0.09	o.k
6	2.01	0.40	ENVDIS Min	-3.31	0.02	0.09	PAR	0.0180	-	-	184.16	o.k	156.00	o.k	1.53	o.k	-	-	o.k	0.09	o.k
6	2.01	0.40	ENVDIS Min	-3.31	0.02	0.09	PAR	0.0180	-	-	184.16	o.k	156.00	o.k	1.53	o.k	-	-	o.k	0.09	o.k
6	2.41	0.40	ENVDIS Min	-3.20	0.06	0.08	PAR	0.0180	-	-	178.04	o.k	130.30	o.k	4.87	o.k	-	-	o.k	0.07	o.k
6	2.81	0.40	ENVDIS Min	-3.09	0.10	0.05	PAR	0.0180	-	-	171.93	o.k	77.85	o.k	8.20	o.k	-	-	o.k	0.05	o.k
6	3.21	0.40	ENVDIS Min	-2.98	0.14	0.00	PAR	0.0180	-	-	165.82	o.k	6.43	o.k	11.53	o.k	-	-	o.k	0.01	o.k
6	3.61	0.40	ENVDIS Min	-2.87	0.18	-0.34	PAR	0.0180	-	-	159.71	o.k	564.37	o.k	14.87	o.k	-	-	o.k	0.28	o.k
6	4.01	0.00	ENVDIS Min	-2.76	0.22	-0.76	PAR	0.0180	-	-	153.59	o.k	1263.90	o.k	18.20	o.k	-	-	o.k	0.00	o.k

CERCHA JARDIN INFANTIL - ESQUINAS

EVALUACION DE DEFORMACIONES



Luz Libre 4.01 m
Deformacion Admisible
1.34 cm
Deformacion cercha
0.69 cm

CUMPLE

Joint Displacements			
Joint	Object	7	Joint Element
	1	2	3
Trans	-0.00247	0.	-0.00692
Rotn	0.	1.641E-04	0.

REVISIÓN DE ALFARDAS EN MADERA

I. MADERA: GEOMETRÍA Y PROPIEDADES.

MADERA:

GRUPO: ES3

$$\rho = 700 \text{ Kg/m}^3$$

$$E = 112169.2 \text{ Kg/cm}^2$$

Seccion

Circular

$$\sigma_{ADM} = 211.1 \text{ Kg/cm}^2$$

$$L = 1.67 \text{ m}$$

$$L_{Afe} = 0.50 \text{ m}$$

$$\tau_{ADM} = 14.7 \text{ Kg/cm}^2$$

$$D = 8.00 \text{ cm}$$

$$PP = 3.52 \text{ Kg/m}$$

$$\delta_{ADM} = 0.6 \text{ cm}$$

$$I = 201.06 \text{ cm}^4$$

II. DETERMINACIÓN DE LAS CARGAS PARA DISEÑO,

$$CV \text{ ó } G = 25.00 \text{ Kg/m}$$

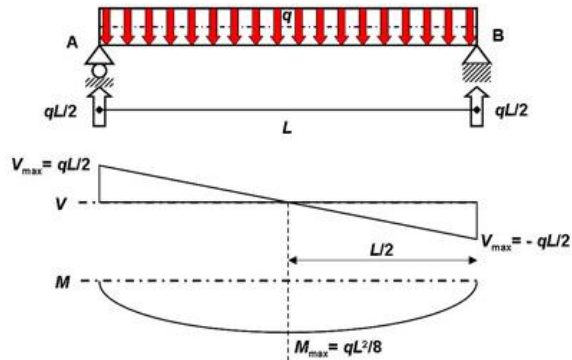
$$CM = 77.52 \text{ Kg/m}$$

$$W = 24.49 \text{ Kg/m}$$

$$q_U = 114.64 \text{ Kg/m}$$

$$V_{MAX} = 95.72 \text{ Kg}$$

$$M_{MAX} = 39.96 \text{ Kg*m}$$



III. FLEXIÓN.

$$M \text{ Nominal} = F'_b \frac{bd^2}{6}$$

$$M \text{ Nominal} = 180.12 \text{ Kg*m}$$

Cumple $M_n > M_u$

IV. CORTE.

$$\tau = \frac{3V_{MAX}}{2bh}$$

$$\tau = 2.24 \text{ Kg/cm}^2 < \tau \text{ Admisible, Cumple}$$

V. DEFORMACIÓN.

$$\delta = \frac{5W_U L^4}{384EI}$$

$$\delta = 0.51 \text{ cm} < \delta \text{ Admisible, Cumple}$$

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REVISIÓN DE CORREAS EN MADERA

I. MADERA: GEOMETRÍA Y PROPIEDADES.

MADERA:

GRUPO: ES3

$$\rho = 700 \text{ Kg/m}^3$$

$$E = 112169.2 \text{ Kg/cm}^2$$

Seccion Rectangular

$$\sigma_{ADM} = 211.1 \text{ Kg/cm}^2$$

$$L = 2.37 \text{ m}$$

$$\tau_{ADM} = 14.7 \text{ Kg/cm}^2$$

$$b = 20.00 \text{ cm}$$

$$PP = 12.60 \text{ Kg/m}$$

$$\delta_{ADM} = 0.8 \text{ cm}$$

$$h = 9.00 \text{ cm}$$

$$I = 1215.00 \text{ cm}^4$$

II. DETERMINACIÓN DE LAS CARGAS PARA DISEÑO,

$$CV \text{ ó } G = 41.75 \text{ Kg/m}$$

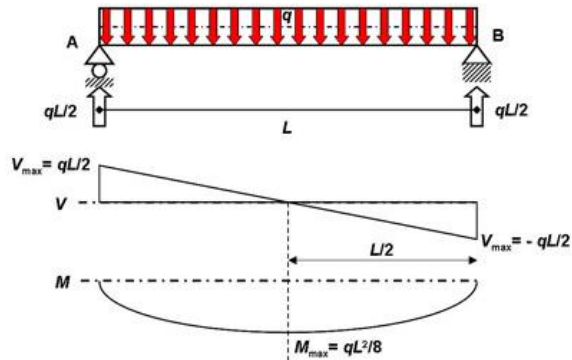
$$CM = 136.18 \text{ Kg/m}$$

$$W = 40.90 \text{ Kg/m}$$

$$q_U = 198.17 \text{ Kg/m}$$

$$V_{MAX} = 234.83 \text{ Kg}$$

$$M_{MAX} = 139.13 \text{ Kg*m}$$



III. FLEXIÓN.

$$M \text{ Nominal} = F'_b \frac{bd^2}{6}$$

$$M \text{ Nominal} = 569.92 \text{ Kg*m}$$

Cumple $M_n > M_u$

IV. CORTE.

$$\tau = \frac{3V_{MAX}}{2bh}$$

$$\tau = 1.96 \text{ Kg/cm}^2 < \tau \text{ Admisible, Cumple}$$

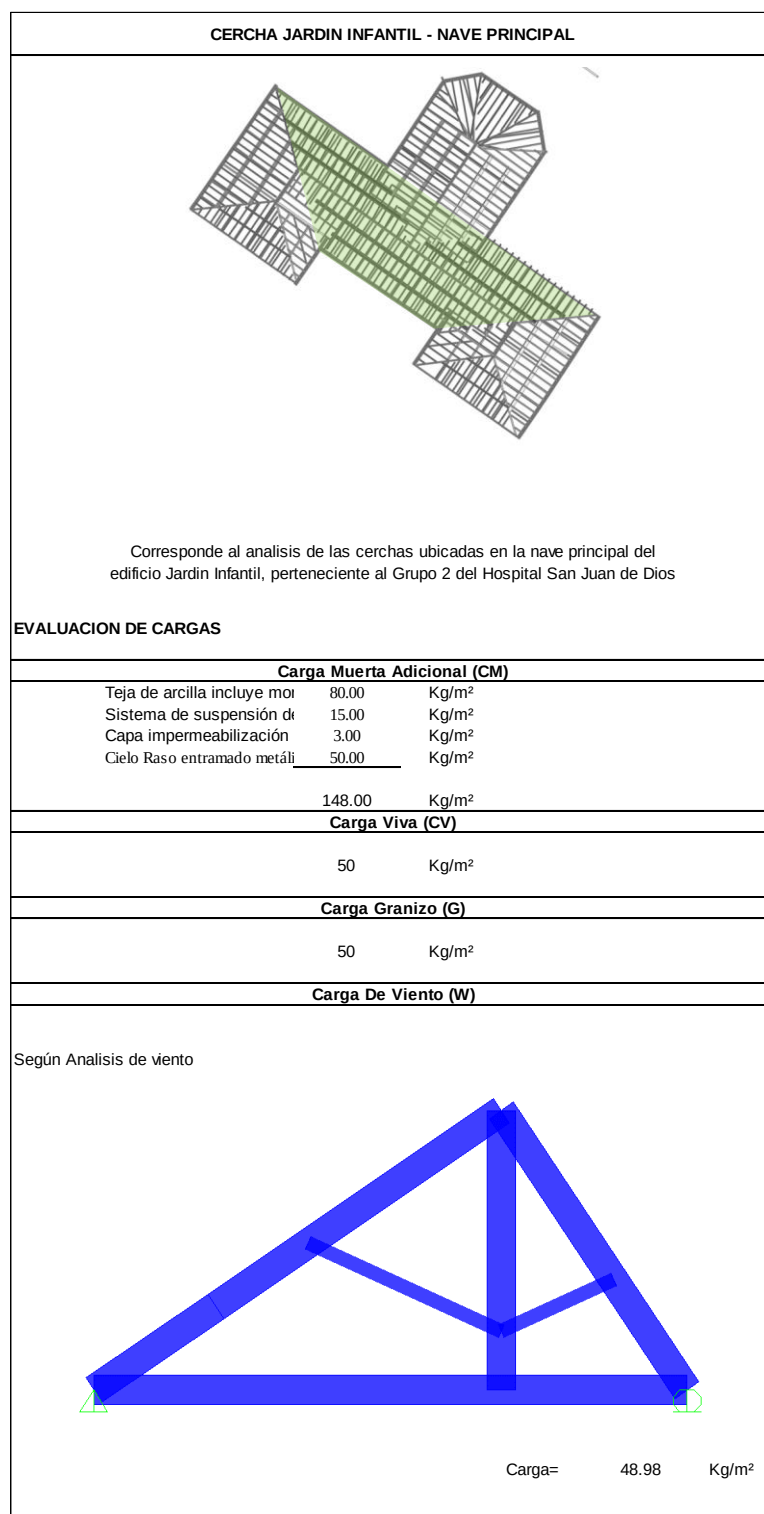
V. DEFORMACIÓN.

$$\delta = \frac{5W_U L^4}{384EI}$$

$$\delta = 0.60 \text{ cm} < \delta \text{ Admisible, Cumple}$$

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8.12.4 Cerchas Nave Principal



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CARGAS SOBRE CORREAS

TIPO	LONG. AFERENTE (m)	CM (Kg/m)	CV (Kg/m)	G (Kg/m)	W (Kg/m)
Alfardas	0.43	63.64	21.50	21.50	21.06

Luz **1.36**

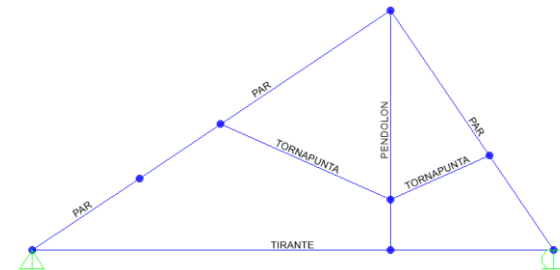
TIPO	LONG. AFERENTE (m)	CM (Kg)	CV (Kg)	G (Kg)	W (Kg)
Correas	2.04	43.28	14.62	14.62	14.32

REVISIÓN ELEMENTOS DE MADERA CERCHA JARDIN INFANTIL - NAVE PRINCIPAL

SECCIÓN DE LOS ELEMENTOS:	b	h	# Elementos	Area
TIRANTE	0.090 m	0.200 m	1	0.018 m ²
PAR	0.090 m	0.200 m	1	0.018 m ²
PENDOLON	0.090 m	0.200 m	1	0.018 m ²
TORNAPUNTA	0.000 m	0.100 m	1	0.0079 m ²

	Mmax	Vmax
TIRANTE	1.27 Ton*m	1.762 Ton
PAR	1.27 Ton*m	1.762 Ton
PENDOLON	1.27 Ton*m	1.762 Ton
TORNAPUNTA	0.21 Ton*m	3.460 Ton

Grupo de uso		ES3
Esfuerzo	MPa	Ton/m ²
Fb	20.700	2110.81
Ft	15.300	1560.17
Fc	17.100	1743.71
Fp	3.800	387.49
Fv	1.440	146.84
ED.5	14000.000	1427602.70
ED.05	11000.000	1121687.83
Emin	5500.000	560843.92



Frame	Station	COMB	P	V2	M3	FrameElem	AREA	ft	fc	fb	fv	flexo-tensión	flexo-compresión
Text	m	Text	Tonf	Tonf	Tonf-m	Text	m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2
1	0.00	0.00 ENVDIS Max	1.14	0.01	0.06	TIRANTE	0.0180	63.111 o.k	0.00 o.k	92.82 o.k	1.17 o.k	0.08 0.01 o.k	0.00 o.k
1	0.42	0.42 ENVDIS Max	1.14	0.02	0.05	TIRANTE	0.0180	63.111 o.k	0.00 o.k	81.30 o.k	1.61 o.k	0.08 0.01 o.k	0 o.k
1	0.83	0.42 ENVDIS Max	1.14	0.02	0.04	TIRANTE	0.0180	63.111 o.k	0.00 o.k	66.17 o.k	2.04 o.k	0.07 0.00 o.k	0.00 o.k
1	1.25	0.42 ENVDIS Max	1.14	0.03	0.03	TIRANTE	0.0180	63.111 o.k	0.00 o.k	47.42 o.k	2.47 o.k	0.06 -0.01 o.k	0.00 o.k
1	1.66	0.42 ENVDIS Max	1.14	0.04	0.02	TIRANTE	0.0180	63.111 o.k	0.00 o.k	25.05 o.k	2.92 o.k	0.05 -0.02 o.k	0.00 o.k
1	2.08	0.42 ENVDIS Max	1.14	0.04	0.00	TIRANTE	0.0180	63.111 o.k	0.00 o.k	2.02 o.k	3.35 o.k	0.04 -0.03 o.k	0.00 o.k
1	2.49	0.42 ENVDIS Max	1.14	0.05	0.00	TIRANTE	0.0180	63.111 o.k	0.00 o.k	7.30 o.k	3.78 o.k	0.04 -0.03 o.k	0.00 o.k
1	2.85	0.36 ENVDIS Max	1.14	0.05	-0.01	TIRANTE	0.0180	63.111 o.k	0.00 o.k	16.85 o.k	4.16 o.k	0.05 -0.02 o.k	0.00 o.k
1	2.85	0.36 ENVDIS Max	0.80	0.05	0.05	TIRANTE	0.0180	44.500 o.k	0.00 o.k	88.03 o.k	4.00 o.k	0.07 0.02 o.k	0.00 o.k
1	2.91	0.05 ENVDIS Max	0.80	0.05	0.05	TIRANTE	0.0180	44.500 o.k	0.00 o.k	83.60 o.k	4.06 o.k	0.07 0.02 o.k	0.00 o.k
1	3.32	0.42 ENVDIS Max	0.80	0.05	0.03	TIRANTE	0.0180	44.500 o.k	0.00 o.k	48.12 o.k	4.49 o.k	0.05 0.00 o.k	0.00 o.k
1	3.74	0.42 ENVDIS Max	0.80	0.06	0.01	TIRANTE	0.0180	44.500 o.k	0.00 o.k	9.02 o.k	4.92 o.k	0.03 -0.02 o.k	0.00 o.k
1	4.15	0.00 ENVDIS Max	0.80	0.06	0.00	TIRANTE	0.0180	44.500 o.k	0.00 o.k	6.55 o.k	5.37 o.k	0.03 -0.02 o.k	0.00 o.k
1	0.00	0.00 ENVDIS Min	0.23	0.00	0.01	TIRANTE	0.0180	12.933 o.k	0.00 o.k	14.03 o.k	0.36 o.k	0.01 0.00 o.k	0.00 o.k

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1	0.42	0.42	ENVDIS Min	0.23	0.00	0.01	TIRANTE	0.0180	12.933	o.k	0.00	o.k	15.92	o.k	0.09	o.k	0.02	0.00	o.k	0.00	o.k
1	0.83	0.42	ENVDIS Min	0.23	0.00	0.01	TIRANTE	0.0180	12.933	o.k	0.00	o.k	15.60	o.k	0.17	o.k	0.02	0.00	o.k	0.00	o.k
1	1.25	0.42	ENVDIS Min	0.23	0.01	0.01	TIRANTE	0.0180	12.933	o.k	0.00	o.k	13.13	o.k	0.42	o.k	0.01	0.00	o.k	0.00	o.k
1	1.66	0.42	ENVDIS Min	0.23	0.01	0.01	TIRANTE	0.0180	12.933	o.k	0.00	o.k	8.50	o.k	0.69	o.k	0.01	0.00	o.k	0.00	o.k
1	2.08	0.42	ENVDIS Min	0.23	0.01	0.00	TIRANTE	0.0180	12.933	o.k	0.00	o.k	0.93	o.k	0.95	o.k	0.01	-0.01	o.k	0.00	o.k
1	2.49	0.42	ENVDIS Min	0.23	0.01	-0.02	TIRANTE	0.0180	12.933	o.k	0.00	o.k	30.53	o.k	1.22	o.k	0.02	0.01	o.k	0.00	o.k
1	2.85	0.36	ENVDIS Min	0.23	0.02	-0.04	TIRANTE	0.0180	12.933	o.k	0.00	o.k	59.13	o.k	1.44	o.k	0.04	0.02	o.k	0.00	o.k
1	2.85	0.36	ENVDIS Min	0.17	0.00	0.01	TIRANTE	0.0180	9.172	o.k	0.00	o.k	14.23	o.k	0.39	o.k	0.01	0.00	o.k	0.00	o.k
1	2.91	0.05	ENVDIS Min	0.17	0.01	0.01	TIRANTE	0.0180	9.172	o.k	0.00	o.k	13.78	o.k	0.42	o.k	0.01	0.00	o.k	0.00	o.k
1	3.32	0.42	ENVDIS Min	0.17	0.01	0.01	TIRANTE	0.0180	9.172	o.k	0.00	o.k	9.18	o.k	0.68	o.k	0.01	0.00	o.k	0.00	o.k
1	3.74	0.42	ENVDIS Min	0.17	0.01	0.00	TIRANTE	0.0180	9.172	o.k	0.00	o.k	2.40	o.k	0.95	o.k	0.01	0.00	o.k	0.00	o.k
1	4.15	0.00	ENVDIS Min	0.17	0.01	-0.02	TIRANTE	0.0180	9.172	o.k	0.00	o.k	33.68	o.k	1.21	o.k	0.02	0.01	o.k	0.00	o.k
4	0.00	0.00	ENVDIS Max	0.02	0.34	0.09	PENDOLON	0.0180	0.944	o.k	0.00	o.k	147.17	o.k	27.92	o.k	0.07	0.07	o.k	0.00	o.k
4	0.19	0.19	ENVDIS Max	0.02	0.34	0.02	PENDOLON	0.0180	1.078	o.k	0.00	o.k	41.08	o.k	27.92	o.k	0.02	0.02	o.k	0.00	o.k
4	0.38	0.19	ENVDIS Max	0.02	0.34	-0.01	PENDOLON	0.0180	1.211	o.k	0.00	o.k	11.82	o.k	27.92	o.k	0.01	0.01	o.k	0.00	o.k
4	0.40	0.02	ENVDIS Max	0.02	0.34	-0.01	PENDOLON	0.0180	1.228	o.k	0.00	o.k	14.08	o.k	27.92	o.k	0.01	0.01	o.k	0.00	o.k
4	0.40	0.02	ENVDIS Max	0.41	-0.01	-0.01	PENDOLON	0.0180	22.933	o.k	0.00	o.k	14.08	o.k	0.47	o.k	0.02	0.00	o.k	0.00	o.k
4	0.57	0.17	ENVDIS Max	0.42	-0.01	-0.01	PENDOLON	0.0180	23.056	o.k	0.00	o.k	12.50	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	0.76	0.19	ENVDIS Max	0.42	-0.01	-0.01	PENDOLON	0.0180	23.183	o.k	0.00	o.k	10.73	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	0.95	0.19	ENVDIS Max	0.42	-0.01	-0.01	PENDOLON	0.0180	23.317	o.k	0.00	o.k	8.97	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	1.14	0.19	ENVDIS Max	0.42	-0.01	0.00	PENDOLON	0.0180	23.450	o.k	0.00	o.k	7.18	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	1.33	0.19	ENVDIS Max	0.42	-0.01	0.00	PENDOLON	0.0180	23.583	o.k	0.00	o.k	5.42	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	1.52	0.19	ENVDIS Max	0.43	-0.01	0.00	PENDOLON	0.0180	23.717	o.k	0.00	o.k	3.65	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	1.71	0.19	ENVDIS Max	0.43	-0.01	0.00	PENDOLON	0.0180	23.850	o.k	0.00	o.k	1.88	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	1.90	0.00	ENVDIS Max	0.43	-0.01	0.00	PENDOLON	0.0180	23.983	o.k	0.00	o.k	0.11	o.k	0.47	o.k	0.02	-0.01	o.k	0.00	o.k
4	0.00	0.00	ENVDIS Min	0.00	0.07	0.02	PENDOLON	0.0180	0.035	o.k	0.00	o.k	31.08	o.k	5.64	o.k	0.01	0.01	o.k	0.00	o.k
4	0.19	0.19	ENVDIS Min	0.00	0.07	0.01	PENDOLON	0.0180	0.117	o.k	0.00	o.k	9.63	o.k	5.64	o.k	0.00	0.00	o.k	0.00	o.k
4	0.38	0.19	ENVDIS Min	0.00	0.07	-0.04	PENDOLON	0.0180	0.194	o.k	0.00	o.k	65.02	o.k	5.64	o.k	0.03	0.03	o.k	0.00	o.k
4	0.40	0.02	ENVDIS Min	0.00	0.07	-0.05	PENDOLON	0.0180	0.206	o.k	0.00	o.k	76.18	o.k	5.64	o.k	0.04	0.04	o.k	0.00	o.k
4	0.40	0.02	ENVDIS Min	0.10	-0.03	-0.05	PENDOLON	0.0180	5.394	o.k	0.00	o.k	76.18	o.k	2.51	o.k	0.04	0.03	o.k	0.00	o.k
4	0.57	0.17	ENVDIS Min	0.10	-0.03	-0.04	PENDOLON	0.0180	5.467	o.k	0.00	o.k	67.65	o.k	2.51	o.k	0.04	0.03	o.k	0.00	o.k
4	0.76	0.19	ENVDIS Min	0.10	-0.03	-0.03	PENDOLON	0.0180	5.544	o.k	0.00	o.k	58.12	o.k	2.51	o.k	0.03	0.02	o.k	0.00	o.k
4	0.95	0.19	ENVDIS Min	0.10	-0.03	-0.03	PENDOLON	0.0180	5.622	o.k	0.00	o.k	48.58	o.k	2.51	o.k	0.03	0.02	o.k	0.00	o.k
4	1.14	0.19	ENVDIS Min	0.10	-0.03	-0.02	PENDOLON	0.0180	5.706	o.k	0.00	o.k	39.05	o.k	2.51	o.k	0.02	0.02	o.k	0.00	o.k
4	1.33	0.19	ENVDIS Min	0.10	-0.03	-0.02	PENDOLON	0.0180	5.783	o.k	0.00	o.k	29.52	o.k	2.51	o.k	0.02	0.01	o.k	0.00	o.k
4	1.52	0.19	ENVDIS Min	0.11	-0.03	-0.01	PENDOLON	0.0180	5.861	o.k	0.00	o.k	19.98	o.k	2.51	o.k	0.01	0.01	o.k	0.00	o.k
4	1.71	0.19	ENVDIS Min	0.11	-0.03	-0.01	PENDOLON	0.0180	5.944	o.k	0.00	o.k	10.45	o.k	2.51	o.k	0.01	0.00	o.k	0.00	o.k

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4	1.90	0.00	ENVDIS Min	0.11	-0.03	0.00	PENDOLON	0.0180	6.022	o.k	0.00	o.k	0.92	o.k	2.51	o.k	0.00	0.00	o.k	0.00	o.k
5	0.00	0.00	ENVDIS Max	-0.31	-0.01	0.02	PAR	0.0180	-	-	17.13	o.k	33.68	o.k	0.92	o.k	-	-	o.k	0.00	o.k
5	0.23	0.23	ENVDIS Max	-0.29	0.00	0.03	PAR	0.0180	-	-	16.31	o.k	44.50	o.k	0.06	o.k	-	-	o.k	0.02	o.k
5	0.46	0.23	ENVDIS Max	-0.28	0.05	0.02	PAR	0.0180	-	-	15.48	o.k	34.82	o.k	4.33	o.k	-	-	o.k	0.02	o.k
5	0.69	0.23	ENVDIS Max	-0.26	0.11	0.00	PAR	0.0180	-	-	14.65	o.k	4.62	o.k	8.78	o.k	-	-	o.k	0.00	o.k
5	0.91	0.22	ENVDIS Max	-0.25	0.16	0.00	PAR	0.0180	-	-	13.86	o.k	7.37	o.k	13.00	o.k	-	-	o.k	0.00	o.k
5	0.91	0.22	ENVDIS Max	-0.24	-0.02	0.00	PAR	0.0180	-	-	13.24	o.k	7.37	o.k	2.02	o.k	-	-	o.k	0.00	o.k
5	0.92	0.01	ENVDIS Max	-0.24	-0.02	0.00	PAR	0.0180	-	-	13.20	o.k	6.87	o.k	1.98	o.k	-	-	o.k	0.00	o.k
5	1.15	0.23	ENVDIS Max	-0.22	-0.01	0.00	PAR	0.0180	-	-	12.37	o.k	0.30	o.k	1.13	o.k	-	-	o.k	0.00	o.k
5	1.38	0.23	ENVDIS Max	-0.21	0.00	0.01	PAR	0.0180	-	-	11.54	o.k	16.00	o.k	0.28	o.k	-	-	o.k	0.01	o.k
5	1.61	0.23	ENVDIS Max	-0.19	0.03	0.01	PAR	0.0180	-	-	10.71	o.k	13.42	o.k	2.79	o.k	-	-	o.k	0.01	o.k
5	1.84	0.23	ENVDIS Max	-0.18	0.09	0.00	PAR	0.0180	-	-	9.88	o.k	1.68	o.k	7.24	o.k	-	-	o.k	0.00	o.k
5	2.07	0.23	ENVDIS Max	-0.16	0.14	-0.01	PAR	0.0180	-	-	9.05	o.k	10.18	o.k	11.70	o.k	-	-	o.k	0.00	o.k
5	2.30	0.00	ENVDIS Max	-0.15	0.19	-0.01	PAR	0.0180	-	-	8.22	o.k	22.58	o.k	16.15	o.k	-	-	o.k	0.00	o.k
5	0.00	0.00	ENVDIS Min	-1.50	-0.05	0.00	PAR	0.0180	-	-	83.26	o.k	6.55	o.k	4.57	o.k	-	-	o.k	0.00	o.k
5	0.23	0.23	ENVDIS Min	-1.42	0.00	0.01	PAR	0.0180	-	-	78.92	o.k	8.80	o.k	0.12	o.k	-	-	o.k	0.01	o.k
5	0.46	0.23	ENVDIS Min	-1.34	0.01	0.00	PAR	0.0180	-	-	74.58	o.k	7.13	o.k	0.78	o.k	-	-	o.k	0.01	o.k
5	0.69	0.23	ENVDIS Min	-1.26	0.02	0.00	PAR	0.0180	-	-	70.24	o.k	1.55	o.k	1.64	o.k	-	-	o.k	0.00	o.k
5	0.91	0.22	ENVDIS Min	-1.19	0.03	-0.03	PAR	0.0180	-	-	66.13	o.k	42.90	o.k	2.44	o.k	-	-	o.k	0.02	o.k
5	0.91	0.22	ENVDIS Min	-1.14	-0.13	-0.03	PAR	0.0180	-	-	63.09	o.k	42.90	o.k	10.80	o.k	-	-	o.k	0.02	o.k
5	0.92	0.01	ENVDIS Min	-1.13	-0.13	-0.02	PAR	0.0180	-	-	62.87	o.k	40.32	o.k	10.57	o.k	-	-	o.k	0.02	o.k
5	1.15	0.23	ENVDIS Min	-1.05	-0.07	0.00	PAR	0.0180	-	-	58.53	o.k	1.90	o.k	6.12	o.k	-	-	o.k	0.00	o.k
5	1.38	0.23	ENVDIS Min	-0.98	-0.02	0.00	PAR	0.0180	-	-	54.19	o.k	3.57	o.k	1.66	o.k	-	-	o.k	0.00	o.k
5	1.61	0.23	ENVDIS Min	-0.90	0.01	0.00	PAR	0.0180	-	-	49.85	o.k	2.90	o.k	0.57	o.k	-	-	o.k	0.00	o.k
5	1.84	0.23	ENVDIS Min	-0.82	0.02	-0.01	PAR	0.0180	-	-	45.51	o.k	9.70	o.k	1.42	o.k	-	-	o.k	0.01	o.k
5	2.07	0.23	ENVDIS Min	-0.74	0.03	-0.03	PAR	0.0180	-	-	41.17	o.k	53.30	o.k	2.27	o.k	-	-	o.k	0.03	o.k
5	2.30	0.00	ENVDIS Min	-0.66	0.04	-0.07	PAR	0.0180	-	-	36.83	o.k	117.42	o.k	3.12	o.k	-	-	o.k	0.00	o.k
9	0.00	0.00	ENVDIS Max	-0.06	0.00	0.00	TORNAPUNTA	0.0079	-	-	7.13	o.k	0.00	-	0.25	o.k	-	-	o.k	0.00	o.k
9	0.43	0.43	ENVDIS Max	-0.06	0.00	0.00	TORNAPUNTA	0.0079	-	-	7.05	o.k	0.78	o.k	0.00	o.k	-	-	o.k	0.00	o.k
9	0.86	0.00	ENVDIS Max	-0.05	0.00	0.00	TORNAPUNTA	0.0079	-	-	6.98	o.k	0.00	o.k	0.42	o.k	-	-	o.k	0.00	o.k
9	0.00	0.00	ENVDIS Min	-0.29	0.00	0.00	TORNAPUNTA	0.0079	-	-	37.28	o.k	0.00	-	0.42	o.k	-	-	o.k	0.00	o.k
9	0.43	0.43	ENVDIS Min	-0.29	0.00	0.00	TORNAPUNTA	0.0079	-	-	37.15	o.k	0.47	o.k	0.00	o.k	-	-	o.k	0.00	o.k
9	0.86	0.00	ENVDIS Min	-0.29	0.00	0.00	TORNAPUNTA	0.0079	-	-	37.04	o.k	0.00	o.k	0.25	o.k	-	-	o.k	0.00	o.k
10	0.00	0.00	ENVDIS Max	-0.14	0.00	0.00	TORNAPUNTA	0.0079	-	-	17.39	o.k	0.00	-	0.42	o.k	-	-	o.k	0.00	o.k
10	0.74	0.74	ENVDIS Max	-0.14	0.00	0.00	TORNAPUNTA	0.0079	-	-	17.27	o.k	2.28	o.k	0.00	o.k	-	-	o.k	0.00	o.k
10	1.48	0.00	ENVDIS Max	-0.13	0.00	0.00	TORNAPUNTA	0.0079	-	-	17.14	o.k	0.00	o.k	0.71	o.k	-	-	o.k	0.00	o.k
10	0.00	0.00	ENVDIS Min	-0.69	0.00	0.00	TORNAPUNTA	0.0079	-	-	88.24	o.k	0.00	-	0.71	o.k	-	-	o.k	0.00	o.k
10	0.74	0.74	ENVDIS Min	-0.69	0.00	0.00	TORNAPUNTA	0.0079	-	-	88.03	o.k	1.37	o.k	0.00	o.k	-	-	o.k	0.00	o.k
10	1.48	0.00	ENVDIS Min	-0.69	0.00	0.00	TORNAPUNTA	0.0079	-	-	87.82	o.k	0.00	o.k	0.42	o.k	-	-	o.k	0.00	o.k
13	0.00	0.00	ENVDIS Max	-0.09	-0.05	-0.01	PAR	0.0180	-	-	5.26	o.k	22.70	o.k	4.52	o.k	-	-	o.k	0.00	o.k
13	0.24	0.24	ENVDIS Max	-0.11	-0.04	0.00	PAR	0.0180	-	-	5.84	o.k	4.17	o.k	3.22	o.k	-	-	o.k	0.00	o.k
13	0.48	0.24	ENVDIS Max	-0.12	-0.02	0.03	PAR	0.0180	-	-	6.42	o.k	43.62	o.k	1.91	o.k	-	-	o.k	0.02	o.k
13	0.72	0.24	ENVDIS Max	-0.13	-0.01	0.05	PAR	0.0180	-	-	7.01	o.k	75.43	o.k	0.60	o.k	-	-	o.k	0.04	o.k
13	0.96	0.24	ENVDIS Max	-0.14	0.04	0.04	PAR	0.0180	-	-	7.58	o.k	74.48	o.k	3.62	o.k	-	-	o.k	0.04	o.k
13	1.20	0.24	ENVDIS Max	-0.15	0.13	0.02	PAR	0.0180	-	-	8.17	o.k	40.75	o.k	10.45	o.k	-	-	o.k	0.02	o.k
13	1.44	0.24	ENVDIS Max	-0.16	0.21	0.00	PAR	0.0180	-	-	8.74	o.k	5.42	o.k	17.28	o.k	-	-	o.k	0.00	o.k
13	1.62	0.18	ENVDIS Max	-0.17	0.27	-0.01	PAR	0.0180	-	-	9.19	o.k	19.47	o.k	22.52	o.k	-	-	o.k	0.01	o.k
13	1.62	0.18	ENVDIS Max	-0.24	-0.06	-0.01	PAR	0.0180	-	-	13.30	o.k	19.47	o.k	5.06	o.k	-	-	o.k	0.01	o.k
13	1.68	0.06	ENVDIS Max	-0.24	-0.06	-0.01	PAR	0.0180	-	-	13.43	o.k	13.98	o.k	4.76	o.k	-	-	o.k	0.01	o.k
13	1.92	0.24	ENVDIS Max	-0.25	-0.04	0.02	PAR	0.0180	-	-	14.01	o.k	29.07	o.k	3.45	o.k	-	-	o.k	0.01	o.k
13	2.16	0.24	ENVDIS Max	-0.26	-0.03	0.06	PAR	0.0180	-	-	14.59	o.k	96.30	o.k	2.14	o.k	-	-	o.k	0.05	o.k
13	2.40	0.00	ENVDIS Max	-0.27	-0.01	0.08	PAR	0.0180	-	-	15.17	o.k	130.75	o.k	0.84	o.k	-	-	o.k	0.00	o.k
13	0.00	0.00	ENVDIS Min	-0.42	-0.28	-0.07	PAR	0.0180	-	-	23.12	o.k	118.35	o.k	23.72	o.k	-	-	o.k	0.00	o.k
13	0.24	0.24	ENVDIS Min	-0.47	-0.20	-0.01	PAR	0.0180	-	-	26.16	o.k	20.98	o.k	16.88	o.k	-	-	o.k	0.01	o.k
13	0.48	0.24	ENVDIS Min	-0.53	-0.12	0.00	PAR	0.0180	-	-	29.20	o.k	8.10	o.k	10.05	o.k	-	-	o.k	0.00	o.k
13	0.72	0.24	ENVDIS Min	-0.58	-0.04	0.01	PAR	0.0180	-	-	32.24	o.k	14.12	o.k	3.22	o.k	-	-	o.k	0.01	o.k
13	0.96	0.24	ENVDIS Min	-0.63	0.01	0.01	PAR	0.0180	-	-	35.27	o.k	13.87	o.k	0.71	o.k	-	-	o.k	0.01	o.k
13	1.20	0.24	ENVDIS Min	-0.69	0.02	0.00	PAR	0.0180	-	-	38.31	o.k	7.35	o.k	2.01	o.k	-	-	o.k	0.00	o.k
13	1.44	0.24	ENVDIS Min	-0.74	0.04	-0.02	PAR	0.0180	-	-	41.35	o.k	25.75	o.k	3.32	o.k	-	-	o.k	0.01	o.k
13	1.62	0.18	ENVDIS Min	-0.79	0.05	-0.06	PAR	0.0180	-	-	43.68	o.k	98.95	o.k	4.32	o.k	-	-	o.k	0.05	o.k

CONSORCIO

CONURMA – RINCÓN - LÓPEZ

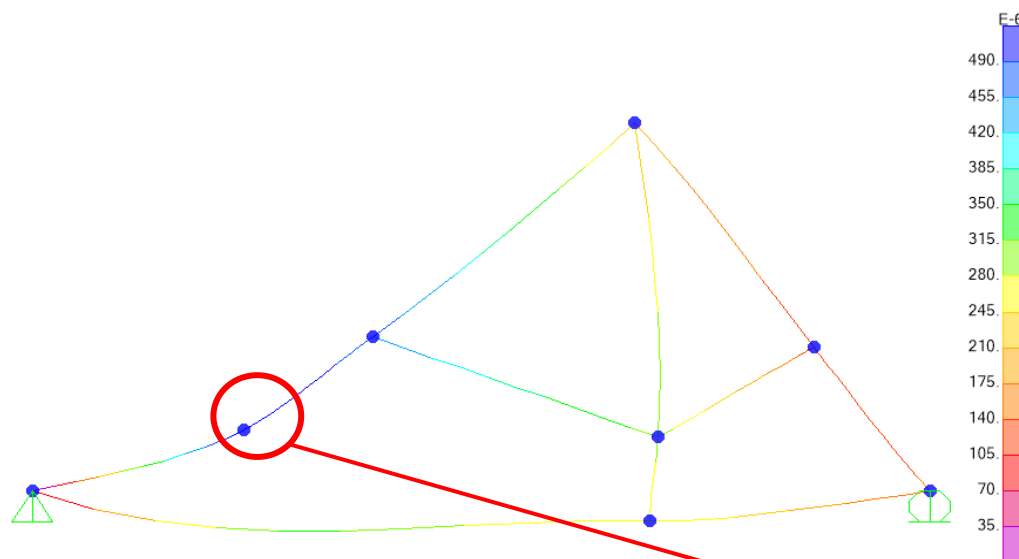
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13	1.62	0.18	ENVDIS Min	-1.16	-0.31	-0.06	PAR	0.0180	-	-	64.36	o.k	98.95	o.k	25.87	o.k	-	-	o.k	0.05	o.k
13	1.68	0.06	ENVDIS Min	-1.17	-0.29	-0.04	PAR	0.0180	-	-	65.06	o.k	70.93	o.k	24.27	o.k	-	-	o.k	0.03	o.k
13	1.92	0.24	ENVDIS Min	-1.23	-0.21	0.00	PAR	0.0180	-	-	68.10	o.k	5.70	o.k	17.43	o.k	-	-	o.k	0.00	o.k
13	2.16	0.24	ENVDIS Min	-1.28	-0.13	0.01	PAR	0.0180	-	-	71.14	o.k	19.12	o.k	10.60	o.k	-	-	o.k	0.01	o.k
13	2.40	0.00	ENVDIS Min	-1.34	-0.05	0.02	PAR	0.0180	-	-	74.17	o.k	26.27	o.k	3.77	o.k	-	-	o.k	0.00	o.k
14	0.00	0.00	ENVDIS Max	-0.27	-0.01	0.08	PAR	0.0180	-	-	15.17	o.k	130.75	o.k	0.84	o.k	-	-	o.k	0.00	o.k
14	0.10	0.10	ENVDIS Max	-0.28	0.00	0.08	PAR	0.0180	-	-	15.42	o.k	135.48	o.k	0.27	o.k	-	-	o.k	0.06	o.k
14	0.21	0.10	ENVDIS Max	-0.28	0.03	0.08	PAR	0.0180	-	-	15.67	o.k	134.20	o.k	2.09	o.k	-	-	o.k	0.06	o.k
14	0.31	0.10	ENVDIS Max	-0.29	0.06	0.08	PAR	0.0180	-	-	15.92	o.k	126.88	o.k	5.02	o.k	-	-	o.k	0.06	o.k
14	0.41	0.10	ENVDIS Max	-0.29	0.10	0.07	PAR	0.0180	-	-	16.17	o.k	113.57	o.k	7.95	o.k	-	-	o.k	0.05	o.k
14	0.51	0.10	ENVDIS Max	-0.30	0.13	0.06	PAR	0.0180	-	-	16.42	o.k	94.22	o.k	10.87	o.k	-	-	o.k	0.04	o.k
14	0.62	0.10	ENVDIS Max	-0.30	0.17	0.04	PAR	0.0180	-	-	16.67	o.k	68.85	o.k	13.81	o.k	-	-	o.k	0.03	o.k
14	0.72	0.10	ENVDIS Max	-0.30	0.20	0.02	PAR	0.0180	-	-	16.92	o.k	37.47	o.k	16.73	o.k	-	-	o.k	0.02	o.k
14	0.82	0.10	ENVDIS Max	-0.31	0.24	0.00	PAR	0.0180	-	-	17.17	o.k	4.27	o.k	19.67	o.k	-	-	o.k	0.00	o.k
14	0.92	0.10	ENVDIS Max	-0.31	0.27	0.00	PAR	0.0180	-	-	17.41	o.k	4.83	o.k	22.59	o.k	-	-	o.k	0.00	o.k
14	1.03	0.00	ENVDIS Max	-0.32	0.31	-0.01	PAR	0.0180	-	-	17.66	o.k	14.03	o.k	25.52	o.k	-	-	o.k	0.00	o.k
14	0.00	0.00	ENVDIS Min	-1.34	-0.05	0.02	PAR	0.0180	-	-	74.17	o.k	26.27	o.k	3.77	o.k	-	-	o.k	0.00	o.k
14	0.10	0.10	ENVDIS Min	-1.36	-0.01	0.02	PAR	0.0180	-	-	75.48	o.k	27.40	o.k	0.84	o.k	-	-	o.k	0.01	o.k
14	0.21	0.10	ENVDIS Min	-1.38	0.00	0.02	PAR	0.0180	-	-	76.78	o.k	27.40	o.k	0.28	o.k	-	-	o.k	0.01	o.k
14	0.31	0.10	ENVDIS Min	-1.41	0.01	0.02	PAR	0.0180	-	-	78.08	o.k	26.25	o.k	0.84	o.k	-	-	o.k	0.01	o.k
14	0.41	0.10	ENVDIS Min	-1.43	0.02	0.01	PAR	0.0180	-	-	79.38	o.k	23.95	o.k	1.40	o.k	-	-	o.k	0.01	o.k
14	0.51	0.10	ENVDIS Min	-1.45	0.02	0.01	PAR	0.0180	-	-	80.68	o.k	20.48	o.k	1.96	o.k	-	-	o.k	0.01	o.k
14	0.62	0.10	ENVDIS Min	-1.48	0.03	0.01	PAR	0.0180	-	-	81.98	o.k	15.88	o.k	2.52	o.k	-	-	o.k	0.01	o.k
14	0.72	0.10	ENVDIS Min	-1.50	0.04	0.01	PAR	0.0180	-	-	83.29	o.k	10.13	o.k	3.08	o.k	-	-	o.k	0.01	o.k
14	0.82	0.10	ENVDIS Min	-1.52	0.04	0.00	PAR	0.0180	-	-	84.59	o.k	0.12	o.k	3.64	o.k	-	-	o.k	0.00	o.k
14	0.92	0.10	ENVDIS Min	-1.55	0.05	-0.03	PAR	0.0180	-	-	85.89	o.k	43.37	o.k	4.20	o.k	-	-	o.k	0.02	o.k
14	1.03	0.00	ENVDIS Min	-1.57	0.06	-0.06	PAR	0.0180	-	-	87.19	o.k	92.82	o.k	4.76	o.k	-	-	o.k	0.00	o.k

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CERCHA JARDIN INFANTIL - NAVE PRINCIPAL

EVALUACION DE DEFORMACIONES



Luz Libre 3.42 m
Deformacion Admisible
1.14 cm
Deformacion cercha
0.05 cm

CUMPLE

Joint Displacements				
Joint	Object	9	Joint Element	9
		1	2	3
Trans		2.422E-04	0.	-4.573E-04
Rotn		0.	1.426E-04	0.

REVISIÓN DE ALFARDAS EN MADERA

I. MADERA: GEOMETRÍA Y PROPIEDADES.

MADERA:

GRUPO: ES3

$$\rho = 700 \text{ Kg/m}^3$$

$$E = 112169.2 \text{ Kg/cm}^2$$

Seccion

Circular

$$\sigma_{ADM} = 211.1 \text{ Kg/cm}^2$$

$$L = 1.36 \text{ m}$$

$$L_{Afe} = 0.43 \text{ m}$$

$$\tau_{ADM} = 14.7 \text{ Kg/cm}^2$$

$$D = 8.00 \text{ cm}$$

$$PP = 3.52 \text{ Kg/m}$$

$$\delta_{ADM} = 0.5 \text{ cm}$$

$$I = 201.06 \text{ cm}^4$$

II. DETERMINACIÓN DE LAS CARGAS PARA DISEÑO,

$$CV \text{ ó } G = 21.50 \text{ Kg/m}$$

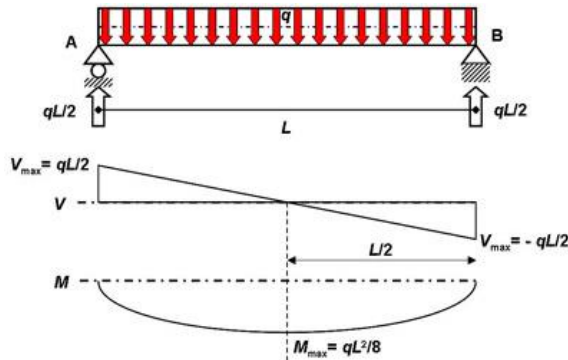
$$CM = 67.16 \text{ Kg/m}$$

$$W = 21.06 \text{ Kg/m}$$

$$q_U = 99.08 \text{ Kg/m}$$

$$V_{MAX} = 67.37 \text{ Kg}$$

$$M_{MAX} = 22.91 \text{ Kg*m}$$



III. FLEXIÓN.

$$M \text{ Nominal} = F'_b \frac{bd^2}{6}$$

$$M \text{ Nominal} = 180.12 \text{ Kg*m}$$

Cumple $M_n > M_u$

IV. CORTE.

$$\tau = \frac{3V_{MAX}}{2bh}$$

$$\tau = 1.58 \text{ Kg/cm}^2 < \tau \text{ Admisible, Cumple}$$

V. DEFORMACIÓN.

$$\delta = \frac{5W_U L^4}{384EI}$$

$$\delta = 0.20 \text{ cm} < \delta \text{ Admisible, Cumple}$$

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REVISIÓN DE CORREAS EN MADERA

I. MADERA: GEOMETRÍA Y PROPIEDADES.

MADERA:

GRUPO: ES3

$$\rho = 700 \text{ Kg/m}^3$$

$$E = 112169.2 \text{ Kg/cm}^2$$

Seccion Rectangular

$$\sigma_{ADM} = 211.1 \text{ Kg/cm}^2$$

$$L = 2.04 \text{ m}$$

$$\tau_{ADM} = 14.7 \text{ Kg/cm}^2$$

$$b = 9.00 \text{ cm}$$

$$PP = 12.60 \text{ Kg/m}$$

$$\delta_{ADM} = 0.7 \text{ cm}$$

$$h = 20.00 \text{ cm}$$

$$I = 6000.00 \text{ cm}^4$$

II. DETERMINACIÓN DE LAS CARGAS PARA DISEÑO,

$$CV \text{ ó } G = 34.00 \text{ Kg/m}$$

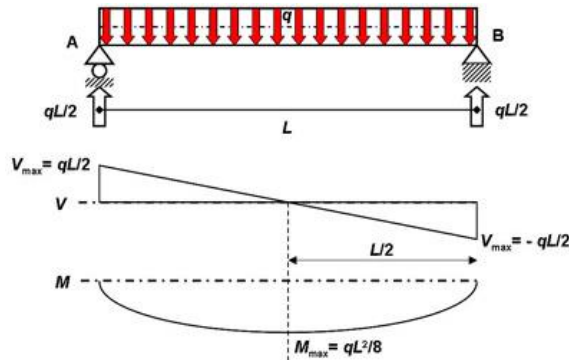
$$CM = 113.24 \text{ Kg/m}$$

$$W = 33.31 \text{ Kg/m}$$

$$q_U = 163.72 \text{ Kg/m}$$

$$V_{MAX} = 166.99 \text{ Kg}$$

$$M_{MAX} = 85.17 \text{ Kg*m}$$



III. FLEXIÓN.

$$M \text{ Nominal} = F'_b \frac{bd^2}{6}$$

$$M \text{ Nominal} = 1266.49 \text{ Kg*m}$$

Cumple $M_n > M_u$

IV. CORTE.

$$\tau = \frac{3V_{MAX}}{2bh}$$

$$\tau = 1.39 \text{ Kg/cm}^2 < \tau \text{ Admisible, Cumple}$$

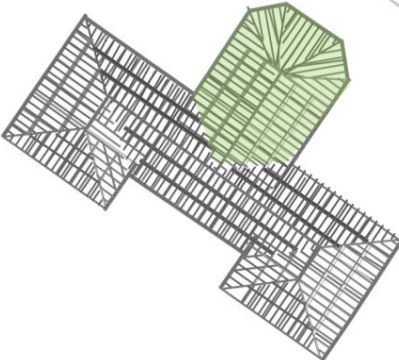
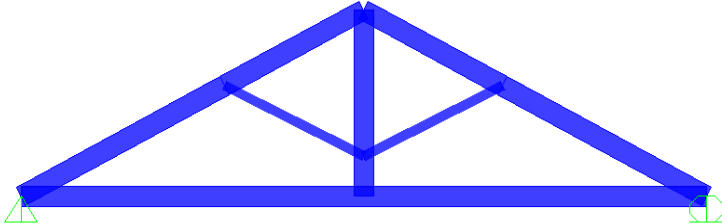
V. DEFORMACIÓN.

$$\delta = \frac{5W_U L^4}{384EI}$$

$$\delta = 0.05 \text{ cm} < \delta \text{ Admisible, Cumple}$$

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8.12.5 Cerchas Acceso

CERCHA JARDIN INFANTIL - ACCESO		
		
Corresponde al analisis de las cerchas ubicadas en la zona de acceso del edificio Jardín Infantil, perteneciente al Grupo 2 del Hospital San Juan de Dios		
EVALUACION DE CARGAS		
Carga Muerta Adicional (CM)		
Teja de arcilla incluye mo	80.00	Kg/m ²
Sistema de suspensión d	15.00	Kg/m ²
Capa impermeabilización	3.00	Kg/m ²
Cielo Raso entramado metáli	50.00	Kg/m ²
	148.00	Kg/m ²
Carga Viva (CV)		
	50	Kg/m ²
Carga Granizo (G)		
	50	Kg/m ²
Carga De Viento (W)		
Según Analisis de viento		
		
	Carga=	48.98 Kg/m ²

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CARGAS SOBRE CORREAS

TIPO	LONG. AFERENTE (m)	CM (Kg/m)	CV (Kg/m)	G (Kg/m)	W (Kg/m)
Alfardas	0.42	62.16	21.00	21.00	20.57

Luz **1.30**

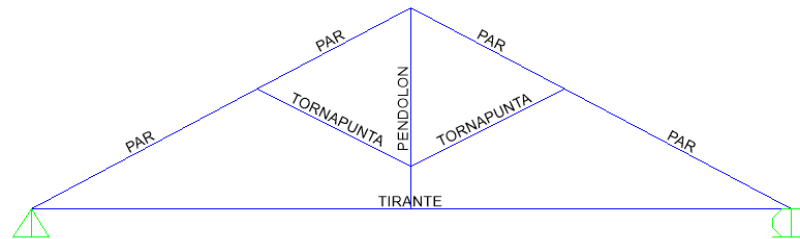
TIPO	LONG. AFERENTE (m)	CM (Kg)	CV (Kg)	G (Kg)	W (Kg)
Correas	1.80	40.40	13.65	13.65	13.37

REVISIÓN ELEMENTOS DE MADERA CERCHA JARDIN INFANTIL - ACCESO

SECCIÓN DE LOS ELEMENTOS:	b	h	# Elementos	Area
TIRANTE	0.090 m	0.200 m	1	0.018 m ²
PAR	0.090 m	0.200 m	1	0.018 m ²
PENDOLON	0.090 m	0.200 m	1	0.018 m ²
TORNAPUNTA		0.100 m	1	0.0079 m ²

	Mmax	Vmax
TIRANTE	1.27 Ton*m	1.762 Ton
PAR	1.27 Ton*m	1.762 Ton
PENDOLON	1.27 Ton*m	1.762 Ton
TORNAPUNTA	0.21 Ton*m	3.460 Ton

Grupo de uso		ES3
Esfuerzo	MPa	Ton/m ²
Fb	20.700	2110.81
Ft	15.300	1560.17
Fc	17.100	1743.71
Fp	3.800	387.49
Fv	1.440	146.84
E0.5	14000.000	1427602.70
E0.05	11000.000	1121687.83
Emin	5500.000	560843.92



Frame	Station	COMB	P	V2	M3	FrameElem	AREA	tension		compresion		flexion		Cortante		flexo-tensión			flexo-compresión		
								ft	fc	fb	fv	ft	fc	fb	fv	ft	fc	fb	ft	fc	fb
Text	m	Text	Tonf	Tonf	Tonf-m	Text	m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2	t/m2
1	0.00	0.00 ENVDIS Max	2.18	0.01	0.08	TIRANTE	0.0180	121.206	o.k	0.00	o.k	133.45	o.k	0.80	o.k	0.14	0.01	o.k	0.00	o.k	0.00
1	0.70	0.70 ENVDIS Max	2.18	0.02	0.07	TIRANTE	0.0180	121.206	o.k	0.00	o.k	116.95	o.k	1.54	o.k	0.13	0.00	o.k	0.00	o.k	0.00
1	1.41	0.70 ENVDIS Max	2.18	0.03	0.05	TIRANTE	0.0180	121.206	o.k	0.00	o.k	90.07	o.k	2.28	o.k	0.12	-0.01	o.k	0.00	o.k	0.00
1	2.11	0.70 ENVDIS Max	2.18	0.04	0.03	TIRANTE	0.0180	121.206	o.k	0.00	o.k	52.88	o.k	3.02	o.k	0.10	-0.03	o.k	0.00	o.k	0.00
1	2.11	0.70 ENVDIS Max	2.18	0.04	0.03	TIRANTE	0.0180	121.206	o.k	0.00	o.k	52.88	o.k	3.02	o.k	0.10	-0.03	o.k	0.00	o.k	0.00
1	2.82	0.71 ENVDIS Max	2.18	0.05	0.00	TIRANTE	0.0180	121.206	o.k	0.00	o.k	5.03	o.k	3.76	o.k	0.08	-0.06	o.k	0.00	o.k	0.00
1	3.52	0.70 ENVDIS Max	2.18	0.05	-0.01	TIRANTE	0.0180	121.206	o.k	0.00	o.k	20.15	o.k	4.50	o.k	0.09	-0.05	o.k	0.00	o.k	0.00
1	3.52	0.70 ENVDIS Max	2.18	-0.02	-0.01	TIRANTE	0.0180	121.206	o.k	0.00	o.k	20.15	o.k	1.69	o.k	0.09	-0.05	o.k	0.00	o.k	0.00
1	4.22	0.70 ENVDIS Max	2.18	-0.02	0.00	TIRANTE	0.0180	121.206	o.k	0.00	o.k	5.03	o.k	1.25	o.k	0.08	-0.06	o.k	0.00	o.k	0.00
1	4.93	0.70 ENVDIS Max	2.18	-0.01	0.03	TIRANTE	0.0180	121.206	o.k	0.00	o.k	52.75	o.k	0.80	o.k	0.10	-0.03	o.k	0.00	o.k	0.00
1	5.63	0.70 ENVDIS Max	2.18	0.00	0.05	TIRANTE	0.0180	121.206	o.k	0.00	o.k	90.07	o.k	0.36	o.k	0.12	-0.01	o.k	0.00	o.k	0.00
1	6.34	0.70 ENVDIS Max	2.18	0.00	0.07	TIRANTE	0.0180	121.206	o.k	0.00	o.k	116.95	o.k	0.08	o.k	0.13	0.00	o.k	0.00	o.k	0.00
1	7.04	0.00 ENVDIS Min	2.18	0.01	0.08	TIRANTE	0.0180	121.206	o.k	0.00	o.k	133.45	o.k	0.52	o.k	0.14	0.01	o.k	0.00	o.k	0.00
1	0.00	0.00 ENVDIS Min	0.46	-0.01	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	20.78	o.k	0.52	o.k	0.03	0.00	o.k	0.00	o.k	0.00

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1	0.70	0.70	ENVDIS Min	0.46	0.00	0.02	TIRANTE	0.0180	25.383	o.k	0.00	o.k	25.08	o.k	0.08	o.k	0.03	0.00	o.k	0.00	o.k
1	1.41	0.70	ENVDIS Min	0.46	0.00	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	23.15	o.k	0.36	o.k	0.03	0.00	o.k	0.00	o.k
1	2.11	0.70	ENVDIS Min	0.46	0.01	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	15.00	o.k	0.80	o.k	0.02	0.00	o.k	0.00	o.k
1	2.11	0.70	ENVDIS Min	0.46	0.01	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	15.00	o.k	0.80	o.k	0.02	0.00	o.k	0.00	o.k
1	2.82	0.71	ENVDIS Min	0.46	0.02	0.00	TIRANTE	0.0180	25.383	o.k	0.00	o.k	0.53	o.k	1.25	o.k	0.02	-0.01	o.k	0.00	o.k
1	3.52	0.70	ENVDIS Min	0.46	0.02	-0.03	TIRANTE	0.0180	25.383	o.k	0.00	o.k	53.08	o.k	1.69	o.k	0.04	0.01	o.k	0.00	o.k
1	3.52	0.70	ENVDIS Min	0.46	-0.05	-0.03	TIRANTE	0.0180	25.383	o.k	0.00	o.k	53.08	o.k	4.50	o.k	0.04	0.01	o.k	0.00	o.k
1	4.22	0.70	ENVDIS Min	0.46	-0.05	0.00	TIRANTE	0.0180	25.383	o.k	0.00	o.k	0.53	o.k	3.76	o.k	0.02	-0.01	o.k	0.00	o.k
1	4.93	0.70	ENVDIS Min	0.46	-0.04	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	14.97	o.k	3.02	o.k	0.02	0.00	o.k	0.00	o.k
1	5.63	0.70	ENVDIS Min	0.46	-0.03	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	23.15	o.k	2.28	o.k	0.03	0.00	o.k	0.00	o.k
1	6.34	0.70	ENVDIS Min	0.46	-0.02	0.02	TIRANTE	0.0180	25.383	o.k	0.00	o.k	25.08	o.k	1.54	o.k	0.03	0.00	o.k	0.00	o.k
1	7.04	0.00	ENVDIS Min	0.46	-0.01	0.01	TIRANTE	0.0180	25.383	o.k	0.00	o.k	20.78	o.k	0.80	o.k	0.03	0.00	o.k	0.00	o.k
4	0.00	0.00	ENVDIS Max	0.11	0.00	0.00	PENDOLON	0.0180	5.994	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.19	0.19	ENVDIS Max	0.11	0.00	0.00	PENDOLON	0.0180	6.128	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.37	0.19	ENVDIS Max	0.11	0.00	0.00	PENDOLON	0.0180	6.256	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.40	0.03	ENVDIS Max	0.11	0.00	0.00	PENDOLON	0.0180	6.278	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.40	0.03	ENVDIS Max	0.89	0.00	0.00	PENDOLON	0.0180	49.456	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	0.56	0.16	ENVDIS Max	0.89	0.00	0.00	PENDOLON	0.0180	49.561	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	0.74	0.19	ENVDIS Max	0.89	0.00	0.00	PENDOLON	0.0180	49.694	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	0.93	0.19	ENVDIS Max	0.90	0.00	0.00	PENDOLON	0.0180	49.822	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	1.11	0.19	ENVDIS Max	0.90	0.00	0.00	PENDOLON	0.0180	49.950	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	1.30	0.19	ENVDIS Max	0.90	0.00	0.00	PENDOLON	0.0180	50.083	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	1.48	0.19	ENVDIS Max	0.90	0.00	0.00	PENDOLON	0.0180	50.211	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	1.67	0.19	ENVDIS Max	0.91	0.00	0.00	PENDOLON	0.0180	50.339	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	1.85	0.00	ENVDIS Max	0.91	0.00	0.00	PENDOLON	0.0180	50.472	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.03	-0.02	o.k	0.00	o.k
4	0.00	0.00	ENVDIS Min	0.04	0.00	0.00	PENDOLON	0.0180	2.256	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.19	0.19	ENVDIS Min	0.04	0.00	0.00	PENDOLON	0.0180	2.333	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.37	0.19	ENVDIS Min	0.04	0.00	0.00	PENDOLON	0.0180	2.411	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.40	0.03	ENVDIS Min	0.04	0.00	0.00	PENDOLON	0.0180	2.422	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.00	0.00	o.k	0.00	o.k
4	0.40	0.03	ENVDIS Min	0.20	0.00	0.00	PENDOLON	0.0180	11.111	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	0.56	0.16	ENVDIS Min	0.20	0.00	0.00	PENDOLON	0.0180	11.178	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	0.74	0.19	ENVDIS Min	0.20	0.00	0.00	PENDOLON	0.0180	11.256	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	0.93	0.19	ENVDIS Min	0.20	0.00	0.00	PENDOLON	0.0180	11.333	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	1.11	0.19	ENVDIS Min	0.21	0.00	0.00	PENDOLON	0.0180	11.411	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	1.30	0.19	ENVDIS Min	0.21	0.00	0.00	PENDOLON	0.0180	11.483	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	1.48	0.19	ENVDIS Min	0.21	0.00	0.00	PENDOLON	0.0180	11.561	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
4	1.67	0.19	ENVDIS Min	0.21	0.00	0.00	PENDOLON	0.0180	11.639	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k

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NIT. 901615033-1

4	1.85	0.00	ENVDIS Min	0.21	0.00	0.00	PENDOLON	0.0180	11.717	o.k	0.00	o.k	0.00	o.k	0.00	o.k	0.01	-0.01	o.k	0.00	o.k
11	0.00	0.00	ENVDIS Max	-0.55	-0.07	-0.01	PAR	0.0180	-	-	30.81	o.k	20.78	o.k	6.08	o.k	-	-	o.k	0.00	o.k
11	0.24	0.24	ENVDIS Max	-0.55	-0.06	0.00	PAR	0.0180	-	-	30.36	o.k	7.30	o.k	4.82	o.k	-	-	o.k	0.00	o.k
11	0.47	0.24	ENVDIS Max	-0.54	-0.04	0.07	PAR	0.0180	-	-	29.92	o.k	108.98	o.k	3.54	o.k	-	-	o.k	0.05	o.k
11	0.71	0.24	ENVDIS Max	-0.53	-0.03	0.11	PAR	0.0180	-	-	29.47	o.k	183.22	o.k	2.27	o.k	-	-	o.k	0.09	o.k
11	0.95	0.24	ENVDIS Max	-0.52	-0.01	0.14	PAR	0.0180	-	-	29.02	o.k	226.17	o.k	1.00	o.k	-	-	o.k	0.11	o.k
11	1.18	0.24	ENVDIS Max	-0.51	0.01	0.14	PAR	0.0180	-	-	28.58	o.k	237.80	o.k	0.85	o.k	-	-	o.k	0.11	o.k
11	1.42	0.24	ENVDIS Max	-0.51	0.09	0.13	PAR	0.0180	-	-	28.13	o.k	218.12	o.k	7.47	o.k	-	-	o.k	0.10	o.k
11	1.66	0.24	ENVDIS Max	-0.50	0.17	0.10	PAR	0.0180	-	-	27.69	o.k	167.13	o.k	14.09	o.k	-	-	o.k	0.08	o.k
11	1.89	0.24	ENVDIS Max	-0.49	0.25	0.05	PAR	0.0180	-	-	27.24	o.k	84.83	o.k	20.72	o.k	-	-	o.k	0.04	o.k
11	2.13	0.24	ENVDIS Max	-0.48	0.33	0.00	PAR	0.0180	-	-	26.79	o.k	5.43	o.k	27.33	o.k	-	-	o.k	0.00	o.k
11	2.36	0.00	ENVDIS Max	-0.47	0.41	-0.02	PAR	0.0180	-	-	26.35	o.k	33.82	o.k	33.96	o.k	-	-	o.k	0.00	o.k
11	0.00	0.00	ENVDIS Min	-2.67	-0.39	-0.08	PAR	0.0180	-	-	148.23	o.k	133.45	o.k	32.25	o.k	-	-	o.k	0.00	o.k
11	0.24	0.24	ENVDIS Min	-2.63	-0.31	0.00	PAR	0.0180	-	-	145.91	o.k	1.92	o.k	25.63	o.k	-	-	o.k	0.01	o.k
11	0.47	0.24	ENVDIS Min	-2.58	-0.23	0.01	PAR	0.0180	-	-	143.59	o.k	24.75	o.k	19.01	o.k	-	-	o.k	0.02	o.k
11	0.71	0.24	ENVDIS Min	-2.54	-0.15	0.02	PAR	0.0180	-	-	141.27	o.k	38.48	o.k	12.39	o.k	-	-	o.k	0.02	o.k
11	0.95	0.24	ENVDIS Min	-2.50	-0.07	0.03	PAR	0.0180	-	-	138.94	o.k	46.22	o.k	5.77	o.k	-	-	o.k	0.03	o.k
11	1.18	0.24	ENVDIS Min	-2.46	0.00	0.03	PAR	0.0180	-	-	136.63	o.k	47.92	o.k	0.27	o.k	-	-	o.k	0.03	o.k
11	1.42	0.24	ENVDIS Min	-2.42	0.02	0.03	PAR	0.0180	-	-	134.31	o.k	43.62	o.k	1.55	o.k	-	-	o.k	0.03	o.k
11	1.66	0.24	ENVDIS Min	-2.38	0.03	0.02	PAR	0.0180	-	-	131.99	o.k	33.28	o.k	2.82	o.k	-	-	o.k	0.02	o.k
11	1.89	0.24	ENVDIS Min	-2.33	0.05	0.01	PAR	0.0180	-	-	129.67	o.k	16.93	o.k	4.09	o.k	-	-	o.k	0.01	o.k
11	2.13	0.24	ENVDIS Min	-2.29	0.06	-0.02	PAR	0.0180	-	-	127.35	o.k	28.77	o.k	5.37	o.k	-	-	o.k	0.02	o.k
11	2.36	0.00	ENVDIS Min	-2.25	0.08	-0.10	PAR	0.0180	-	-	125.03	o.k	173.68	o.k	6.64	o.k	-	-	o.k	0.00	o.k
12	0.00	0.00	ENVDIS Max	-0.37	-0.06	-0.02	PAR	0.0180	-	-	20.66	o.k	33.82	o.k	4.72	o.k	-	-	o.k	0.00	o.k
12	0.16	0.16	ENVDIS Max	-0.37	-0.05	-0.01	PAR	0.0180	-	-	20.36	o.k	20.00	o.k	3.85	o.k	-	-	o.k	0.01	o.k
12	0.32	0.16	ENVDIS Max	-0.36	-0.04	-0.01	PAR	0.0180	-	-	20.05	o.k	9.00	o.k	2.98	o.k	-	-	o.k	0.00	o.k
12	0.48	0.16	ENVDIS Max	-0.36	-0.03	0.00	PAR	0.0180	-	-	19.74	o.k	0.78	o.k	2.12	o.k	-	-	o.k	0.00	o.k
12	0.64	0.16	ENVDIS Max	-0.35	-0.02	0.02	PAR	0.0180	-	-	19.44	o.k	25.02	o.k	1.25	o.k	-	-	o.k	0.01	o.k
12	0.81	0.16	ENVDIS Max	-0.34	0.00	0.02	PAR	0.0180	-	-	19.14	o.k	38.30	o.k	0.37	o.k	-	-	o.k	0.02	o.k
12	0.97	0.16	ENVDIS Max	-0.34	0.03	0.02	PAR	0.0180	-	-	18.83	o.k	37.03	o.k	2.65	o.k	-	-	o.k	0.02	o.k
12	1.13	0.16	ENVDIS Max	-0.33	0.09	0.01	PAR	0.0180	-	-	18.53	o.k	21.20	o.k	7.17	o.k	-	-	o.k	0.01	o.k
12	1.29	0.16	ENVDIS Max	-0.33	0.14	0.00	PAR	0.0180	-	-	18.23	o.k	1.67	o.k	11.67	o.k	-	-	o.k	0.00	o.k
12	1.45	0.16	ENVDIS Max	-0.32	0.19	-0.01	PAR	0.0180	-	-	17.92	o.k	10.25	o.k	16.19	o.k	-	-	o.k	0.00	o.k
12	1.61	0.00	ENVDIS Max	-0.32	0.25	-0.01	PAR	0.0180	-	-	17.62	o.k	21.62	o.k	20.71	o.k	-	-	o.k	0.00	o.k
12	0.00	0.00	ENVDIS Min	-1.73	-0.29	-0.10	PAR	0.0180	-	-	96.33	o.k	173.68	o.k	24.43	o.k	-	-	o.k	0.00	o.k
12	0.16	0.16	ENVDIS Min	-1.71	-0.24	-0.06	PAR	0.0180	-	-	94.74	o.k	102.18	o.k	19.92	o.k	-	-	o.k	0.05	o.k
12	0.32	0.16	ENVDIS Min	-1.68	-0.18	-0.03	PAR	0.0180	-	-	93.16	o.k	45.23	o.k	15.41	o.k	-	-	o.k	0.02	o.k
12	0.48	0.16	ENVDIS Min	-1.65	-0.13	0.00	PAR	0.0180	-	-	91.58	o.k	2.83	o.k	10.89	o.k	-	-	o.k	0.00	o.k
12	0.64	0.16	ENVDIS Min	-1.62	-0.08	0.00	PAR	0.0180	-	-	90.00	o.k	4.63	o.k	6.37	o.k	-	-	o.k	0.00	o.k
12	0.81	0.16	ENVDIS Min	-1.59	-0.02	0.00	PAR	0.0180	-	-	88.42	o.k	7.25	o.k	1.87	o.k	-	-	o.k	0.01	o.k
12	0.97	0.16	ENVDIS Min	-1.56	0.01	0.00	PAR	0.0180	-	-	86.83	o.k	7.08	o.k	0.49	o.k	-	-	o.k	0.01	o.k
12	1.13	0.16	ENVDIS Min	-1.53	0.02	0.00	PAR	0.0180	-	-	85.26	o.k	4.10	o.k	1.36	o.k	-	-	o.k	0.00	o.k
12	1.29	0.16	ENVDIS Min	-1.51	0.03	-0.01	PAR	0.0180	-	-	83.67	o.k	9.18	o.k	2.22	o.k	-	-	o.k	0.01	o.k
12	1.45	0.16	ENVDIS Min	-1.48	0.04	-0.03	PAR	0.0180	-	-	82.09	o.k	54.12	o.k	3.09	o.k	-	-	o.k	0.03	o.k
12	1.61	0.00	ENVDIS Min	-1.45	0.05	-0.07	PAR	0.0180	-	-	80.51	o.k	113.60	o.k	3.96	o.k	-	-	o.k	0.00	o.k
13	0.00	0.00	ENVDIS Max	-0.32	-0.05	-0.01	PAR	0.0180	-	-	17.62	o.k	21.62	o.k	3.96	o.k	-	-	o.k	0.00	o.k
13	0.16	0.16	ENVDIS Max	-0.32	-0.04	-0.01	PAR	0.0180	-	-	17.92	o.k	10.25	o.k	3.09	o.k	-	-	o.k	0.00	o.k
13	0.32	0.16	ENVDIS Max	-0.33	-0.03	0.00	PAR	0.0180	-	-	18.23	o.k	1.67	o.k	2.22	o.k	-	-	o.k	0.00	o.k
13	0.48	0.16	ENVDIS Max	-0.33	-0.02	0.01	PAR	0.0180	-	-	18.53	o.k	21.20	o.k	1.36	o.k	-	-	o.k	0.01	o.k
13	0.64	0.16	ENVDIS Max	-0.34	-0.01	0.02	PAR	0.0180	-	-	18.83	o.k	37.03	o.k	0.49	o.k	-	-	o.k	0.02	o.k
13	0.81	0.16	ENVDIS Max	-0.34	0.02	0.02	PAR	0.0180	-	-	19.14	o.k	38.30	o.k	1.87	o.k	-	-	o.k	0.02	o.k
13	0.97	0.16	ENVDIS Max	-0.35	0.08	0.02	PAR	0.0180	-	-	19.44	o.k	25.02	o.k	6.37	o.k	-	-	o.k	0.01	o.k
13	1.13	0.16	ENVDIS Max	-0.36	0.13	0.00	PAR	0.0180	-	-	19.74	o.k	0.78	o.k	10.89	o.k	-	-	o.k	0.00	o.k
13	1.29	0.16	ENVDIS Max	-0.36	0.18	-0.01	PAR	0.0180	-	-	20.05	o.k	9.00	o.k	15.41	o.k	-	-	o.k	0.00	o.k
13	1.45	0.16	ENVDIS Max	-0.37	0.24	-0.01	PAR	0.0180	-	-	20.36	o.k	20.00	o.k	19.92	o.k	-	-	o.k	0.01	o.k
13	1.61	0.00	ENVDIS Max	-0.37	0.29	-0.02	PAR	0.0180	-	-	20.66	o.k	33.82	o.k	24.43	o.k	-	-	o.k	0.00	o.k
13	0.00	0.00	ENVDIS Min	-1.45	-0.25	-0.07	PAR	0.0180	-	-	80.51	o.k	113.60	o.k	20.71	o.k	-	-	o.k	0.00	o.k
13	0.16	0.16	ENVDIS Min	-1.48	-0.19	-0.03	PAR	0.0180	-	-	82.09	o.k	54.12	o.k	16.19	o.k	-	-	o.k	0.03	o.k
13	0.32	0.16	ENVDIS Min	-1.51	-0.14	-0.01	PAR	0.0180	-	-	83.67	o.k	9.18	o.k	11.67	o.k	-	-	o.k	0.01	o.k
13	0.48	0.16	ENVDIS Min	-1.53	-0.09	0.00	PAR	0.0180	-	-	85.26	o.k	4.10	o.k	7.17	o.k	-	-	o.k	0.00	o.k

CONSORCIO

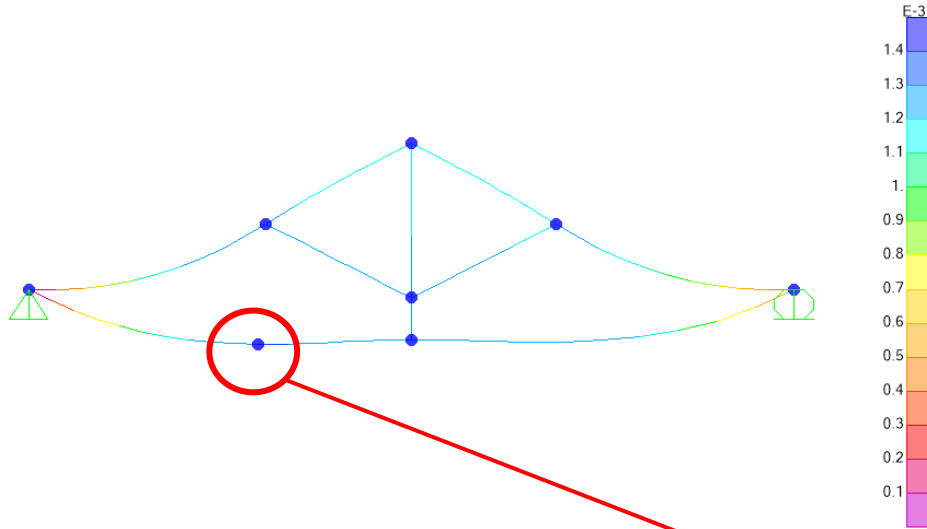
CONURMA – RINCÓN - LÓPEZ

NIT. 901615033-1

13	0.64	0.16	ENVDIS Min	-1.56	-0.03	0.00	PAR	0.0180	-	-	86.83	o.k	7.08	o.k	2.65	o.k	-	-	o.k	0.01	o.k
13	0.81	0.16	ENVDIS Min	-1.59	0.00	0.00	PAR	0.0180	-	-	88.42	o.k	7.25	o.k	0.37	o.k	-	-	o.k	0.01	o.k
13	0.97	0.16	ENVDIS Min	-1.62	0.02	0.00	PAR	0.0180	-	-	90.00	o.k	4.63	o.k	1.25	o.k	-	-	o.k	0.00	o.k
13	1.13	0.16	ENVDIS Min	-1.65	0.03	0.00	PAR	0.0180	-	-	91.58	o.k	2.83	o.k	2.12	o.k	-	-	o.k	0.00	o.k
13	1.29	0.16	ENVDIS Min	-1.68	0.04	-0.03	PAR	0.0180	-	-	93.16	o.k	45.23	o.k	2.98	o.k	-	-	o.k	0.02	o.k
13	1.45	0.16	ENVDIS Min	-1.71	0.05	-0.06	PAR	0.0180	-	-	94.74	o.k	102.18	o.k	3.85	o.k	-	-	o.k	0.05	o.k
13	1.61	0.00	ENVDIS Min	-1.73	0.06	-0.10	PAR	0.0180	-	-	96.33	o.k	173.68	o.k	4.72	o.k	-	-	o.k	0.00	o.k
14	0.00	0.00	ENVDIS Max	-0.47	-0.08	-0.02	PAR	0.0180	-	-	26.35	o.k	33.82	o.k	6.64	o.k	-	-	o.k	0.00	o.k
14	0.24	0.24	ENVDIS Max	-0.48	-0.06	0.00	PAR	0.0180	-	-	26.79	o.k	5.43	o.k	5.37	o.k	-	-	o.k	0.00	o.k
14	0.47	0.24	ENVDIS Max	-0.49	-0.05	0.05	PAR	0.0180	-	-	27.24	o.k	84.83	o.k	4.09	o.k	-	-	o.k	0.04	o.k
14	0.71	0.24	ENVDIS Max	-0.50	-0.03	0.10	PAR	0.0180	-	-	27.69	o.k	167.13	o.k	2.82	o.k	-	-	o.k	0.08	o.k
14	0.95	0.24	ENVDIS Max	-0.51	-0.02	0.13	PAR	0.0180	-	-	28.13	o.k	218.12	o.k	1.55	o.k	-	-	o.k	0.10	o.k
14	1.18	0.24	ENVDIS Max	-0.51	0.00	0.14	PAR	0.0180	-	-	28.58	o.k	237.80	o.k	0.27	o.k	-	-	o.k	0.11	o.k
14	1.42	0.24	ENVDIS Max	-0.52	0.07	0.14	PAR	0.0180	-	-	29.02	o.k	226.17	o.k	5.77	o.k	-	-	o.k	0.11	o.k
14	1.66	0.24	ENVDIS Max	-0.53	0.15	0.11	PAR	0.0180	-	-	29.47	o.k	183.22	o.k	12.39	o.k	-	-	o.k	0.09	o.k
14	1.89	0.24	ENVDIS Max	-0.54	0.23	0.07	PAR	0.0180	-	-	29.92	o.k	108.98	o.k	19.01	o.k	-	-	o.k	0.05	o.k
14	2.13	0.24	ENVDIS Max	-0.55	0.31	0.00	PAR	0.0180	-	-	30.36	o.k	7.30	o.k	25.63	o.k	-	-	o.k	0.00	o.k
14	2.36	0.00	ENVDIS Max	-0.55	0.39	-0.01	PAR	0.0180	-	-	30.81	o.k	20.78	o.k	32.25	o.k	-	-	o.k	0.00	o.k
14	0.00	0.00	ENVDIS Min	-2.25	-0.41	-0.10	PAR	0.0180	-	-	125.03	o.k	173.68	o.k	33.96	o.k	-	-	o.k	0.00	o.k
14	0.24	0.24	ENVDIS Min	-2.29	-0.33	-0.02	PAR	0.0180	-	-	127.35	o.k	28.77	o.k	27.33	o.k	-	-	o.k	0.02	o.k
14	0.47	0.24	ENVDIS Min	-2.33	-0.25	0.01	PAR	0.0180	-	-	129.67	o.k	16.93	o.k	20.72	o.k	-	-	o.k	0.01	o.k
14	0.71	0.24	ENVDIS Min	-2.38	-0.17	0.02	PAR	0.0180	-	-	131.99	o.k	33.28	o.k	14.09	o.k	-	-	o.k	0.02	o.k
14	0.95	0.24	ENVDIS Min	-2.42	-0.09	0.03	PAR	0.0180	-	-	134.31	o.k	43.62	o.k	7.47	o.k	-	-	o.k	0.03	o.k
14	1.18	0.24	ENVDIS Min	-2.46	-0.01	0.03	PAR	0.0180	-	-	136.63	o.k	47.92	o.k	0.85	o.k	-	-	o.k	0.03	o.k
14	1.42	0.24	ENVDIS Min	-2.50	0.01	0.03	PAR	0.0180	-	-	138.94	o.k	46.22	o.k	1.00	o.k	-	-	o.k	0.03	o.k
14	1.66	0.24	ENVDIS Min	-2.54	0.03	0.02	PAR	0.0180	-	-	141.27	o.k	38.48	o.k	2.27	o.k	-	-	o.k	0.02	o.k
14	1.89	0.24	ENVDIS Min	-2.58	0.04	0.01	PAR	0.0180	-	-	143.59	o.k	24.75	o.k	3.54	o.k	-	-	o.k	0.02	o.k
14	2.13	0.24	ENVDIS Min	-2.63	0.06	0.00	PAR	0.0180	-	-	145.91	o.k	1.92	o.k	4.82	o.k	-	-	o.k	0.01	o.k
14	2.36	0.00	ENVDIS Min	-2.67	0.07	-0.08	PAR	0.0180	-	-	148.23	o.k	133.45	o.k	6.08	o.k	-	-	o.k	0.00	o.k
15	0.00	0.00	ENVDIS Max	-0.17	0.00	0.00	TORNAPUNTA	0.0079	-	-	22.00	o.k	0.00	-	0.46	o.k	-	-	o.k	0.00	o.k
15	0.79	0.79	ENVDIS Max	-0.17	0.00	0.00	TORNAPUNTA	0.0079	-	-	21.85	o.k	2.60	o.k	0.00	o.k	-	-	o.k	0.00	o.k
15	1.59	0.00	ENVDIS Max	-0.17	0.00	0.00	TORNAPUNTA	0.0079	-	-	21.71	o.k	0.00	o.k	0.74	o.k	-	-	o.k	0.00	o.k
15	0.00	0.00	ENVDIS Min	-0.87	0.00	0.00	TORNAPUNTA	0.0079	-	-	111.33	o.k	0.00	-	0.74	o.k	-	-	o.k	0.00	o.k
15	0.79	0.79	ENVDIS Min	-0.87	0.00	0.00	TORNAPUNTA	0.0079	-	-	111.09	o.k	1.57	o.k	0.00	o.k	-	-	o.k	0.00	o.k
15	1.59	0.00	ENVDIS Min	-0.87	0.00	0.00	TORNAPUNTA	0.0079	-	-	110.84	o.k	0.00	o.k	0.46	o.k	-	-	o.k	0.00	o.k
16	0.00	0.00	ENVDIS Max	-0.17	0.00	0.00	TORNAPUNTA	0.0079	-	-	22.00	o.k	0.00	-	0.46	o.k	-	-	o.k	0.00	o.k
16	0.79	0.79	ENVDIS Max	-0.17	0.00	0.00	TORNAPUNTA	0.0079	-	-	21.85	o.k	2.60	o.k	0.00	o.k	-	-	o.k	0.00	o.k
16	1.59	0.00	ENVDIS Max	-0.17	0.00	0.00	TORNAPUNTA	0.0079	-	-	21.71	o.k	0.00	o.k	0.74	o.k	-	-	o.k	0.00	o.k
16	0.00	0.00	ENVDIS Min	-0.87	0.00	0.00	TORNAPUNTA	0.0079	-	-	111.33	o.k	0.00	-	0.74	o.k	-	-	o.k	0.00	o.k
16	0.79	0.79	ENVDIS Min	-0.87	0.00	0.00	TORNAPUNTA	0.0079	-	-	111.09	o.k	1.57	o.k	0.00	o.k	-	-	o.k	0.00	o.k
16	1.59	0.00	ENVDIS Min	-0.87	0.00	0.00	TORNAPUNTA	0.0079	-	-	110.84	o.k	0.00	o.k	0.46	o.k	-	-	o.k	0.00	o.k

CERCHA JARDIN INFANTIL - ACCESO

EVALUACION DE DEFORMACIONES



Luz Libre 7.04 m
Deformacion Admisible
2.35 cm
Deformacion cercha
0.13 cm

CUMPLE

Joint Displacements				
Joint	Object	14	Joint Element	14
		1	2	3
Trans		1.611E-04	0.	-0.00129
Rotn		0.	2.694E-05	0.

REVISIÓN DE ALFARDAS EN MADERA

I. MADERA: GEOMETRÍA Y PROPIEDADES.

MADERA:

GRUPO: ES3

$$\rho = 700 \text{ Kg/m}^3$$

$$E = 112169.2 \text{ Kg/cm}^2$$

Seccion

Circular

$$\sigma_{ADM} = 211.1 \text{ Kg/cm}^2$$

$$L = 1.30 \text{ m}$$

$$L \text{ Afe} = 0.42 \text{ m}$$

$$\tau_{ADM} = 14.7 \text{ Kg/cm}^2$$

$$D = 8.00 \text{ cm}$$

$$PP = 3.52 \text{ Kg/m}$$

$$\delta_{ADM} = 0.4 \text{ cm}$$

$$I = 201.06 \text{ cm}^4$$

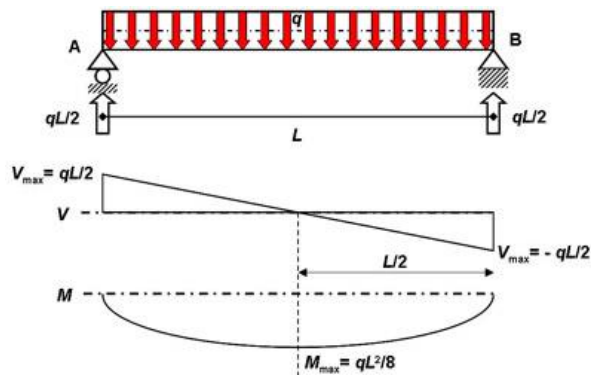
II. DETERMINACIÓN DE LAS CARGAS PARA DISEÑO,

$$CV \text{ ó } G = 21.00 \text{ Kg/m}$$

$$CM = 65.68 \text{ Kg/m}$$

$$W = 20.57 \text{ Kg/m}$$

$q_U =$	96.86 Kg/m
$V_{MAX} =$	62.96 Kg
$M_{MAX} =$	20.46 Kg*m



III. FLEXIÓN.

$$M \text{ Nominal} = F'_b \frac{bd^2}{6}$$

$$M \text{ Nominal} = 180.12 \text{ Kg*m}$$

Cumple $M_n > M_u$

IV. CORTE.

$$\tau = \frac{3V_{MAX}}{2b*h}$$

$$\tau = 1.48 \text{ Kg/cm}^2 < \tau \text{ Admisible, Cumple}$$

V. DEFORMACIÓN.

$$\delta = \frac{5W_U * L^4}{384 * E * I}$$

$$\delta = 0.16 \text{ cm} < \delta \text{ Admisible, Cumple}$$

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REVISIÓN DE CORREAS EN MADERA

I. MADERA: GEOMETRÍA Y PROPIEDADES.

MADERA:

GRUPO: ES3

$$\rho = 700 \text{ Kg/m}^3$$

$$E = 112169.2 \text{ Kg/cm}^2$$

Seccion

Rectangular

$$\sigma_{ADM} = 211.1 \text{ Kg/cm}^2$$

$$\tau_{ADM} = 14.7 \text{ Kg/cm}^2$$

$$\delta_{ADM} = 0.6 \text{ cm}$$

$$L = 1.80 \text{ m}$$

$$b = 20.00 \text{ cm}$$

$$h = 9.00 \text{ cm}$$

$$PP = 12.60 \text{ Kg/m}$$

$$I = 1215.00 \text{ cm}^4$$

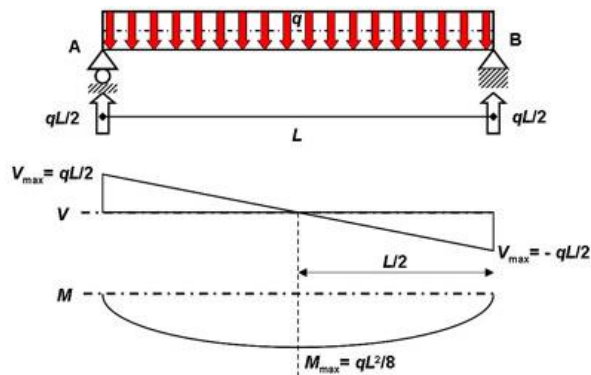
II. DETERMINACIÓN DE LAS CARGAS PARA DISEÑO,

$$CV \text{ ó } G = 32.50 \text{ Kg/m}$$

$$CM = 108.80 \text{ Kg/m}$$

$$W = 31.84 \text{ Kg/m}$$

$q_U =$	157.05 Kg/m
$V_{MAX} =$	141.35 Kg
$M_{MAX} =$	63.61 Kg*m



III. FLEXIÓN.

$$M \text{ Nominal} = F'_b \frac{bd^2}{6}$$

$$M \text{ Nominal} = 569.92 \text{ Kg*m}$$

Cumple $M_n > M_u$

IV. CORTE.

$$\tau = \frac{3V_{MAX}}{2bh}$$

$$\tau = 1.18 \text{ Kg/cm}^2 < \tau \text{ Admisible, Cumple}$$

V. DEFORMACIÓN.

$$\delta = \frac{5W_U L^4}{384EI}$$

$$\delta = 0.16 \text{ cm} < \delta \text{ Admisible, Cumple}$$

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8.13 Cimentación

De acuerdo con la información del estudio de suelos y con base en los esquemas de apiques realizados para el edificio de Jardín Infantil Bloque 1, se adoptaron las siguientes características generales para la verificación de la cimentación existente:

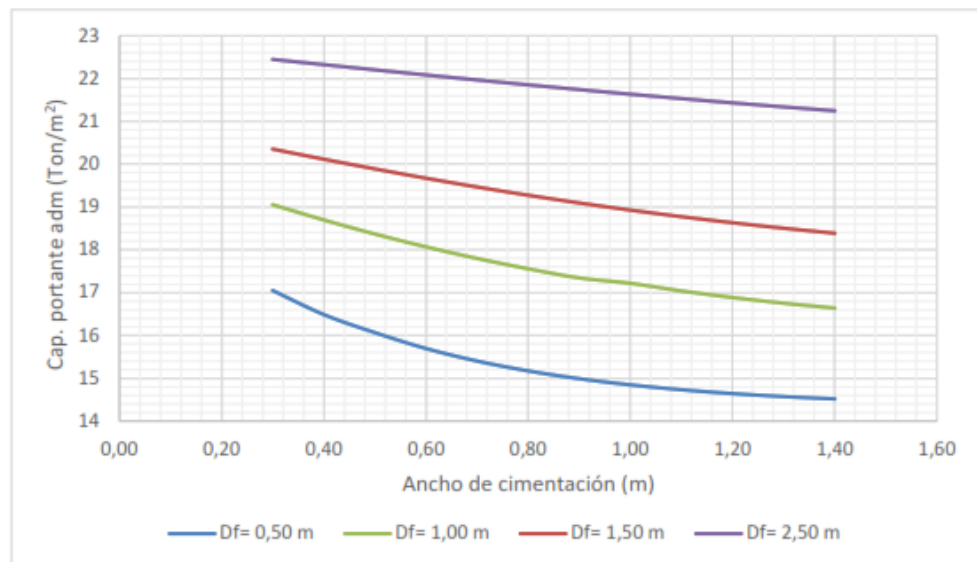
Profundidad de desplante apiques:

1. 1.0m
2. 1.07m
3. 0.96m

Profundidad de desplante promedio 1.00 m.

Adicionalmente de los apiques 4 se pudo observar sobre ancho a partir del borde del muro existente en externa de 0.19 m, con lo cual se adoptó un espesor del cimiento de 0.38+ espesor del muro.

Con base en lo anterior y de acuerdo con la información presentada en el estudio de suelos se genera la revisión de la cimentación contemplando para cada punto un análisis de la capacidad admisible de acuerdo con interpolaciones de los acabaos presentados en el informe de suelos.



Tomado del informe de suelos ES2205

A continuación, se presenta el análisis para cada uno de los muros y columnas que conforman el estrado actual del edificio de Jardín Bloque 1.

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CARGAS A CIMENTACION JARDIN INFANTIL CONSERVACION CIM 1

PIER	LONGITUD	Espesor Muro	Espesor Base	CIM1	M2	M3
	m	m	m	Ton	Ton*m	Ton*m
P1	1.15942	0.32	0.7	3.99	-0.09	-0.15
P2	1.12632	0.32	0.7	3.87	0.01	0.39
P67	2.1318	0.3	0.68	7.26	-0.04	-0.70
P4	2.1318	0.3	0.68	7.21	-0.01	-0.48
P58	0.9348	0.32	0.7	4.96	1.97	0.70
P65	1.5478	0.38	0.76	5.50	0.27	-1.13
P7	0.8977	0.3	0.68	2.71	0.00	0.06
P8	1.0602	0.3	0.68	2.99	0.00	0.11
P9	0.798	0.28	0.66	2.12	0.00	-0.05
P10	0.4731	0.28	0.66	1.07	0.00	0.18
P11	1.2906	0.21	0.59	2.24	0.00	0.08
P12	1.539	0.21	0.59	2.76	-0.02	-0.01
P60	1.3908	0.3	0.68	2.90	0.00	-0.34
P59	0.7182	0.3	0.68	1.87	0.01	0.02
P51	0.6744	0.3	0.68	1.69	0.00	-0.04
P49	1.2522	0.3	0.68	2.95	0.00	-0.08
P48	0.7831	0.3	0.68	1.83	0.00	-0.10
P47	0.4213	0.3	0.68	1.17	0.00	-0.04
P46	0.456	0.3	0.68	1.24	0.00	0.06
P15	1.8115	0.12	0.5	2.29	0.01	0.46
P3	1.3599	0.12	0.5	1.53	0.00	-0.05
P20	0.7353	0.3	0.68	1.80	0.01	0.06
P28	0.4446	0.3	0.68	1.21	0.00	0.19
P38	1.08115	0.16	0.54	2.57	0.14	-0.01
P62	0.774	0.3	0.68	2.07	-0.01	-0.58
P63	2.82661	0.14	0.52	5.27	0.07	0.85
P63	2.82661	0.14	0.52	5.27	0.07	0.85
P55	0.5893	0.3	0.68	1.97	0.00	0.34
P54	1.3487	0.3	0.68	4.61	0.23	-0.37
P30	0.3077	0.12	0.5	0.38	0.00	-0.03
P5	1.1856	0.12	0.5	1.43	0.00	0.09
P53	2.3598	0.12	0.5	3.01	0.01	-0.22
P13	2.5992	0.12	0.5	3.78	-0.01	-0.26
P43	2.508	0.18	0.56	3.85	0.00	-0.07
P41	2.508	0.33	0.71	6.69	-0.01	-0.30
P40	0.4884	0.16	0.54	0.66	0.00	-0.01
P50	2.4852	0.16	0.54	3.95	-0.07	-0.04
P44	1.0146	0.16	0.54	1.54	-0.07	-0.13
P16	1.9654	0.3	0.68	5.93	0.32	0.90
P31	3.1122	0.15	0.53	4.70	0.01	-0.42

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P35	0.171	0.18	0.56	0.85	0.00	-0.34
P36	1.55255	0.18	0.56	2.52	-0.03	-0.02
P34	1.0146	0.7	1.08	5.56	0.08	-0.16
P22	2.1318	0.3	0.68	5.21	0.01	0.23
P22	2.1318	0.3	0.68	5.21	0.01	0.23
P21	1.6173	0.14	0.52	2.15	0.00	-0.19
P33	1.0146	0.46	0.84	3.80	0.08	0.23
P2	1.12632	0.32	0.7	3.87	0.01	0.39
P4	2.1318	0.3	0.68	7.21	-0.01	-0.48
P1	1.15942	0.32	0.7	3.99	-0.09	-0.15
P67	2.1318	0.3	0.68	7.26	-0.04	-0.70
P38	1.08115	0.16	0.54	2.57	0.14	-0.01
P36	1.55255	0.18	0.56	2.52	-0.03	-0.02
P31	3.1122	0.15	0.53	4.70	0.01	-0.42
P19	1.4341	0.3	0.68	3.58	-0.01	0.13
P18	2.7315	0.26	0.64	5.78	0.00	0.77
P29	1.28022	0.15	0.53	2.75	0.07	0.09
P25	1.39991	0.3	0.68	3.48	0.00	0.05
P26	2.508	0.17	0.55	3.73	0.00	-0.06
P29	1.28022	0.15	0.53	2.75	0.07	0.09
P6	6.5891	0.32	0.7	20.31	-0.02	-0.77
P14	3.5395	0.3	0.68	9.91	0.00	0.16
P14	3.5395	0.3	0.68	9.91	0.00	0.16
P6	6.5891	0.32	0.7	20.31	-0.02	-0.77
P17	4.552	0.3	0.68	12.11	0.50	1.51
P17	4.552	0.3	0.68	12.11	0.50	1.51
P23	2.508	0.14	0.52	2.92	0.00	0.12
P23	2.508	0.14	0.52	2.92	0.00	0.12
P24	1.596	0.15	0.53	1.96	0.00	0.28
P24	1.596	0.15	0.53	1.96	0.00	0.28
P27	2.8614	0.15	0.53	3.80	-0.09	0.61
P27	2.8614	0.15	0.53	3.80	-0.09	0.61
P42	3.4998	0.3	0.68	8.17	0.00	0.86
P45	1.2882	0.16	0.54	1.89	-0.03	0.13
P45	1.2882	0.16	0.54	1.89	-0.03	0.13
P52	0.8436	0.3	0.68	2.15	0.00	0.00
P52	0.8436	0.3	0.68	2.15	0.00	0.00
P56	4.446	0.3	0.68	12.60	0.51	1.61
P56	4.446	0.3	0.68	12.60	0.51	1.61
P61	5.3169	0.38	0.76	16.37	-0.05	3.62
P61	5.3169	0.38	0.76	16.37	-0.05	3.62
P66	2.6904	0.32	0.7	10.00	1.48	-0.80
P66	2.6904	0.32	0.7	10.00	1.48	-0.80
P57	0.9119	0.32	0.7	2.87	0.18	0.51
P42	3.4998	0.3	0.68	8.17	0.00	0.86

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ESFUERZOS ADMISIBLES		DESPLANTE	Adicional Sobre Ancho		F.S>3	Cumple CM + CV	
		1	Externo	Interno	2.5<F.S<3	cumple CM + CV maxima	
			0.19	0.19	FS<2.5	No Cumple	
CARGA ACTUANTE	CARGA ADMISIBLE (F.S=3.0)	Momento admisible M2	Momento admisible M3	ESTADO			
				CARGA	F.S	Momento M2	Momento M3
4.92	17.75	1.40	2.31	Cumple	10.83	Cumple	Cumple
4.91	17.75	1.35	2.18	Cumple	10.86	Cumple	Cumple
5.01	17.80	2.47	7.74	Cumple	10.66	Cumple	Cumple
4.98	17.80	2.45	7.69	Cumple	10.73	Cumple	Cumple
7.58	17.75	1.74	2.32	Cumple	7.02	No Cumple	Cumple
4.68	17.60	2.09	4.26	Cumple	11.29	Cumple	Cumple
4.43	17.80	0.92	1.21	Cumple	12.05	Cumple	Cumple
4.14	17.80	1.02	1.58	Cumple	12.89	Cumple	Cumple
4.02	17.85	0.70	0.84	Cumple	13.32	Cumple	Cumple
3.42	17.85	0.35	0.25	Cumple	15.64	Cumple	Cumple
2.94	18.04	0.66	1.44	Cumple	18.41	Cumple	Cumple
3.03	18.04	0.81	2.12	Cumple	17.84	Cumple	Cumple
3.07	17.80	0.99	2.02	Cumple	17.40	Cumple	Cumple
3.82	17.80	0.64	0.67	Cumple	13.96	Cumple	Cumple
3.68	17.80	0.57	0.57	Cumple	14.52	Cumple	Cumple
3.47	17.80	1.00	1.85	Cumple	15.40	Cumple	Cumple
3.44	17.80	0.62	0.72	Cumple	15.51	Cumple	Cumple
4.07	17.80	0.40	0.25	Cumple	13.12	Cumple	Cumple
4.00	17.80	0.42	0.28	Cumple	13.36	Cumple	Cumple
2.52	18.40	0.57	2.07	Cumple	21.88	Cumple	Cumple
2.25	18.40	0.38	1.04	Cumple	24.54	Cumple	Cumple
3.60	17.80	0.61	0.66	Cumple	14.82	Cumple	Cumple
4.01	17.80	0.41	0.27	Cumple	13.30	Cumple	Cumple
4.40	18.24	0.69	1.39	Cumple	12.43	Cumple	Cumple
3.93	17.80	0.70	0.80	Cumple	13.59	Cumple	Cumple
3.58	18.32	1.37	7.44	Cumple	15.34	Cumple	Cumple
3.58	18.32	1.37	7.44	Cumple	15.34	Cumple	Cumple
4.90	17.80	0.67	0.58	Cumple	10.89	Cumple	Cumple
5.03	17.80	1.57	3.11	Cumple	10.63	Cumple	Cumple
2.45	18.40	0.09	0.06	Cumple	22.57	Cumple	Cumple
2.41	18.40	0.36	0.85	Cumple	22.95	Cumple	Cumple
2.55	18.40	0.75	3.55	Cumple	21.67	Cumple	Cumple
2.91	18.40	0.94	4.91	Cumple	18.98	Cumple	Cumple
2.74	18.16	1.08	4.82	Cumple	19.89	Cumple	Cumple
3.76	17.73	2.37	8.39	Cumple	14.15	Cumple	Cumple
2.52	18.24	0.18	0.16	Cumple	21.70	Cumple	Cumple
2.94	18.24	1.07	4.91	Cumple	18.59	Cumple	Cumple
2.81	18.24	0.42	0.78	Cumple	19.46	Cumple	Cumple
4.44	17.80	2.02	5.83	Cumple	12.03	Cumple	Cumple
2.85	18.28	1.25	7.32	Cumple	19.24	Cumple	Cumple

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8.89	18.16	0.24	0.07	Cumple	6.13	Cumple	Cumple
2.90	18.16	0.71	1.96	Cumple	18.76	Cumple	Cumple
5.08	17.08	3.00	2.82	Cumple	10.09	Cumple	Cumple
3.60	17.80	1.77	5.56	Cumple	14.85	Cumple	Cumple
3.60	17.80	1.77	5.56	Cumple	14.85	Cumple	Cumple
2.55	18.32	0.56	1.73	Cumple	21.55	Cumple	Cumple
4.45	17.44	1.59	1.93	Cumple	11.75	Cumple	Cumple
4.91	17.75	1.35	2.18	Cumple	10.86	Cumple	Cumple
4.98	17.80	2.45	7.69	Cumple	10.73	Cumple	Cumple
4.92	17.75	1.40	2.31	Cumple	10.83	Cumple	Cumple
5.01	17.80	2.47	7.74	Cumple	10.66	Cumple	Cumple
4.40	18.24	0.69	1.39	Cumple	12.43	Cumple	Cumple
2.90	18.16	0.71	1.96	Cumple	18.76	Cumple	Cumple
2.85	18.28	1.25	7.32	Cumple	19.24	Cumple	Cumple
3.67	17.80	1.22	2.57	Cumple	14.53	Cumple	Cumple
3.31	17.90	1.85	7.90	Cumple	16.23	Cumple	Cumple
4.06	18.28	0.73	1.76	Cumple	13.51	Cumple	Cumple
3.66	17.80	1.18	2.44	Cumple	14.60	Cumple	Cumple
2.70	18.20	1.02	4.67	Cumple	20.21	Cumple	Cumple
4.06	18.28	0.73	1.76	Cumple	13.51	Cumple	Cumple
4.40	17.75	7.11	66.91	Cumple	12.09	Cumple	Cumple
4.12	17.80	3.37	17.54	Cumple	12.97	Cumple	Cumple
4.12	17.80	3.37	17.54	Cumple	12.97	Cumple	Cumple
4.40	17.75	7.11	66.91	Cumple	12.09	Cumple	Cumple
3.91	17.80	4.12	27.56	Cumple	13.65	Cumple	Cumple
3.91	17.80	4.12	27.56	Cumple	13.65	Cumple	Cumple
2.24	18.32	0.76	3.66	Cumple	24.56	Cumple	Cumple
2.24	18.32	0.76	3.66	Cumple	24.56	Cumple	Cumple
2.31	18.28	0.52	1.56	Cumple	23.70	Cumple	Cumple
2.31	18.28	0.52	1.56	Cumple	23.70	Cumple	Cumple
2.51	18.28	1.01	5.44	Cumple	21.88	Cumple	Cumple
2.51	18.28	1.01	5.44	Cumple	21.88	Cumple	Cumple
3.43	17.80	2.78	14.29	Cumple	15.56	Cumple	Cumple
2.72	18.24	0.51	1.22	Cumple	20.09	Cumple	Cumple
2.72	18.24	0.51	1.22	Cumple	20.09	Cumple	Cumple
3.75	17.80	0.73	0.91	Cumple	14.23	Cumple	Cumple
3.75	17.80	0.73	0.91	Cumple	14.23	Cumple	Cumple
4.17	17.80	4.28	28.00	Cumple	12.82	Cumple	Cumple
4.17	17.80	4.28	28.00	Cumple	12.82	Cumple	Cumple
4.05	17.60	6.22	43.51	Cumple	13.04	Cumple	Cumple
4.05	17.60	6.22	43.51	Cumple	13.04	Cumple	Cumple
5.31	17.75	3.50	13.46	Cumple	10.02	Cumple	Cumple
5.31	17.75	3.50	13.46	Cumple	10.02	Cumple	Cumple
4.49	17.75	1.00	1.31	Cumple	11.85	Cumple	Cumple
3.43	17.80	2.78	14.29	Cumple	15.56	Cumple	Cumple

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CARGAS A CIMENTACION JARDIN INFANTIL CONSERVACION CIM 2 Y CIM 3

PIER	LONGITUD m	Espesor Muro m	Espesor Base m	CIM2 Max Ton	M2 Ton*m	M3 Ton*m	CIM2 MIN Ton	M2 Ton*m	M3 Ton*m	CIM3 Max Ton	M2 Ton*m	M3 Ton*m	CIM3 Min Ton	M2 Ton*m	M3 Ton*m
P1	1.15942	0.32	0.7	3.75	0.98	3.21	3.89	-1.12	-3.45	3.54	2.36	5.70	4.11	-2.50	-5.94
P2	1.12632	0.32	0.7	3.56	1.54	3.98	3.84	-1.53	-3.35	3.54	1.76	4.76	3.87	-1.75	-4.14
P67	2.1318	0.3	0.68	6.66	0.36	2.90	6.86	-0.42	-4.01	6.50	1.60	19.29	7.02	-1.67	-20.40
P4	2.1318	0.3	0.68	6.57	0.62	8.03	6.85	-0.64	-8.80	6.55	0.71	13.31	6.87	-0.73	-14.08
P58	0.9348	0.32	0.7	4.35	1.68	1.08	4.40	1.43	0.03	4.35	1.63	2.99	4.40	1.48	-1.88
P65	1.5478	0.38	0.76	0.18	0.31	8.95	10.66	0.13	-10.74	2.06	0.75	8.03	12.55	-0.32	-9.82
P7	0.8977	0.3	0.68	0.38	0.08	2.19	4.71	-0.08	-2.09	0.19	0.13	1.85	4.90	-0.13	-1.76
P8	1.0602	0.3	0.68	2.77	0.09	2.13	2.92	-0.09	-1.95	2.79	0.13	1.62	2.90	-0.13	-1.45
P9	0.798	0.28	0.66	1.83	0.08	0.86	2.20	-0.08	-0.94	1.85	0.11	0.63	2.18	-0.12	-0.72
P10	0.4731	0.28	0.66	1.02	0.04	0.77	3.11	-0.04	-0.48	1.86	0.06	0.92	3.95	-0.06	-0.63
P11	1.2906	0.21	0.59	1.20	0.04	4.13	3.17	-0.05	-4.01	1.01	0.03	6.10	3.35	-0.04	-5.97
P12	1.539	0.21	0.59	0.90	0.06	8.20	6.25	-0.09	-8.22	2.91	0.04	12.67	8.25	-0.06	-12.69
P60	1.3908	0.3	0.68	3.93	0.18	3.63	9.79	-0.18	-4.17	10.74	0.13	16.58	16.59	-0.13	-17.12
P59	0.7182	0.3	0.68	1.70	0.09	0.11	1.92	-0.08	-0.07	1.73	0.06	2.01	1.89	-0.05	-1.97
P51	0.6744	0.3	0.68	1.10	0.08	0.95	4.38	-0.07	-1.01	0.16	0.05	3.30	3.44	-0.05	-3.35
P49	1.2522	0.3	0.68	1.17	0.11	0.88	4.64	-0.11	-1.01	2.60	0.11	11.68	8.41	-0.11	-11.81
P48	0.7831	0.3	0.68	0.66	0.01	1.48	2.95	-0.01	-1.64	4.82	0.19	3.55	8.43	-0.19	-3.70
P47	0.4213	0.3	0.68	0.82	0.00	0.44	1.41	0.00	-0.50	0.60	0.10	0.53	1.63	-0.10	-0.59
P46	0.456	0.3	0.68	0.85	0.00	0.58	1.52	-0.01	-0.49	0.96	0.10	0.49	1.41	-0.10	-0.40
P15	1.8115	0.12	0.5	0.85	0.03	4.90	5.13	-0.02	-4.17	2.46	0.04	4.53	6.73	-0.03	-3.80
P3	1.3599	0.12	0.5	0.92	0.01	4.68	3.83	-0.01	-4.76	1.28	0.01	7.32	4.20	-0.01	-7.40
P20	0.7353	0.3	0.68	1.56	0.11	0.70	1.97	-0.10	-0.60	1.56	0.17	0.70	1.96	-0.16	-0.61
P28	0.4446	0.3	0.68	0.89	0.05	0.82	3.22	-0.05	-0.52	1.82	0.07	0.84	4.14	-0.07	-0.54
P38	1.08115	0.16	0.54	2.13	1.13	1.78	2.65	-0.91	-1.79	1.34	1.79	1.97	3.44	-1.57	-1.99
P62	0.774	0.3	0.68	0.77	0.11	0.16	4.74	-0.12	-1.07	0.20	0.11	9.31	3.77	-0.12	-10.23
P63	2.82661	0.14	0.52	3.39	3.77	11.60	6.35	-3.66	-10.25	6.96	3.55	23.16	16.70	-3.43	-21.81
P63	2.82661	0.14	0.52	3.39	3.77	11.60	6.35	-3.66	-10.25	6.96	3.55	23.16	16.70	-3.43	-21.81
P55	0.5893	0.3	0.68	0.38	0.05	0.68	3.26	-0.05	-0.16	0.72	0.03	1.87	4.36	-0.03	-1.34
P54	1.3487	0.3	0.68	2.32	0.21	4.16	6.19	0.15	-4.75	1.99	0.48	2.78	6.52	-0.11	-3.36
P30	0.3077	0.12	0.5	0.22	0.00	0.25	0.93	0.00	-0.30	0.01	0.01	0.17	0.70	0.00	-0.22
P5	1.1856	0.12	0.5	2.05	0.02	2.80	4.73	-0.01	-2.66	1.72	0.02	1.78	4.40	-0.02	-1.64
P53	2.3598	0.12	0.5	0.33	0.01	7.51	5.28	0.01	-7.86	1.33	0.07	4.56	4.28	-0.05	-4.91
P13	2.5992	0.12	0.5	0.44	0.01	9.72	7.37	-0.03	-10.14	0.21	0.02	5.81	6.71	-0.04	-6.23
P43	2.508	0.18	0.56	1.03	0.06	4.69	6.43	-0.06	-4.80	2.42	0.06	34.19	9.87	-0.06	-34.30
P41	2.508	0.33	0.71	0.20	0.37	7.90	12.90	-0.38	-8.38	0.89	0.29	36.81	12.20	-0.30	-37.29
P40	0.4884	0.16	0.54	0.02	0.00	0.55	1.31	0.00	-0.56	2.29	0.01	0.66	3.58	-0.01	-0.68
P50	2.4852	0.16	0.54	1.70	-0.05	11.15	5.76	-0.05	-11.21	0.93	0.06	7.11	6.53	-0.16	-7.18
P44	1.0146	0.16	0.54	1.43	-0.05	1.04	1.50	-0.06	-1.24	1.25	-0.01	0.69	1.69	-0.10	-0.88
P16	1.9654	0.3	0.68	1.51	0.50	13.94	12.67	0.01	-12.52	2.34	0.62	9.66	13.50	-0.11	-8.25
P31	3.1122	0.15	0.53	3.96	1.39	7.91	4.97	-1.37	-8.58	3.71	2.66	17.59	5.22	-2.64	-18.26
P35	0.171	0.18	0.56	0.69	0.00	-0.23	0.77	0.00	-0.31	0.60	0.00	-0.15	0.85	0.00	-0.39

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P36	1.55255	0.18	0.56	2.00	0.19	2.16	2.88	-0.24	-2.19	1.58	0.60	5.39	3.30	-0.65	-5.42
P34	1.0146	0.7	1.08	5.38	0.63	3.20	5.58	-0.50	-3.46	5.32	1.85	5.29	5.64	-1.71	-5.54
P22	2.1318	0.3	0.68	0.36	0.28	12.45	9.83	-0.26	-12.09	2.06	0.40	12.55	12.25	-0.39	-12.18
P22	2.1318	0.3	0.68	0.36	0.28	12.45	9.83	-0.26	-12.09	2.06	0.40	12.55	12.25	-0.39	-12.18
P21	1.6173	0.14	0.52	0.67	0.02	4.33	4.76	-0.03	-4.63	0.34	0.04	3.67	4.42	-0.04	-3.97
P33	1.0146	0.46	0.84	3.61	0.28	2.41	3.81	-0.15	-2.04	3.55	0.53	3.81	3.88	-0.41	-3.44
P2	1.12632	0.32	0.7	3.56	1.54	3.98	3.84	-1.53	-3.35	3.54	1.76	4.76	3.87	-1.75	-4.14
P4	2.1318	0.3	0.68	6.57	0.62	8.03	6.85	-0.64	-8.80	6.55	0.71	13.31	6.87	-0.73	-14.08
P1	1.15942	0.32	0.7	3.75	0.98	3.21	3.89	-1.12	-3.45	3.54	2.36	5.70	4.11	-2.50	-5.94
P67	2.1318	0.3	0.68	6.66	0.36	2.90	6.86	-0.42	-4.01	6.50	1.60	19.29	7.02	-1.67	-20.40
P38	1.08115	0.16	0.54	2.13	1.13	1.78	2.65	-0.91	-1.79	1.34	1.79	1.97	3.44	-1.57	-1.99
P36	1.55255	0.18	0.56	2.00	0.19	2.16	2.88	-0.24	-2.19	1.58	0.60	5.39	3.30	-0.65	-5.42
P31	3.1122	0.15	0.53	3.96	1.39	7.91	4.97	-1.37	-8.58	3.71	2.66	17.59	5.22	-2.64	-18.26
P19	1.4341	0.3	0.68	3.28	0.18	7.46	10.26	-0.20	-7.25	2.16	0.14	9.34	9.14	-0.16	-9.13
P18	2.7315	0.26	0.64	1.37	0.23	27.03	12.68	-0.23	-25.82	4.96	0.33	18.82	16.28	-0.33	-17.61
P29	1.28022	0.15	0.53	2.18	1.11	2.37	2.94	-1.00	-2.22	1.79	1.19	1.81	3.33	-1.08	-1.67
P25	1.39991	0.3	0.68	1.36	0.16	4.74	8.15	-0.17	-4.65	1.17	0.12	6.77	7.96	-0.13	-6.68
P26	2.508	0.17	0.55	1.27	0.04	11.60	5.93	-0.05	-11.69	1.74	0.03	16.27	5.45	-0.04	-16.36
P29	1.28022	0.15	0.53	2.18	1.11	2.37	2.94	-1.00	-2.22	1.79	1.19	1.81	3.33	-1.08	-1.67
P6	6.5891	0.32	0.7	13.59	0.83	80.05	24.91	-0.86	-81.28	10.49	0.52	132.62	28.01	-0.55	-133.85
P14	3.5395	0.3	0.68	3.99	0.43	35.81	14.91	-0.43	-35.55	1.66	0.25	52.20	17.24	-0.25	-51.94
P14	3.5395	0.3	0.68	3.99	0.43	35.81	14.91	-0.43	-35.55	1.66	0.25	52.20	17.24	-0.25	-51.94
P6	6.5891	0.32	0.7	13.59	0.83	80.05	24.91	-0.86	-81.28	10.49	0.52	132.62	28.01	-0.55	-133.85
P17	4.552	0.3	0.68	5.00	0.77	64.83	18.28	0.02	-62.45	1.56	1.07	41.12	21.72	-0.28	-38.74
P17	4.552	0.3	0.68	5.00	0.77	64.83	18.28	0.02	-62.45	1.56	1.07	41.12	21.72	-0.28	-38.74
P23	2.508	0.14	0.52	2.24	0.03	12.57	3.45	-0.03	-12.37	2.28	0.02	18.65	3.40	-0.02	-18.46
P23	2.508	0.14	0.52	2.24	0.03	12.57	3.45	-0.03	-12.37	2.28	0.02	18.65	3.40	-0.02	-18.46
P24	1.596	0.15	0.53	2.20	0.02	8.45	6.03	-0.02	-8.02	1.95	0.03	5.90	5.78	-0.04	-5.47
P24	1.596	0.15	0.53	2.20	0.02	8.45	6.03	-0.02	-8.02	1.95	0.03	5.90	5.78	-0.04	-5.47
P27	2.8614	0.15	0.53	0.78	-0.02	14.57	8.12	-0.12	-13.60	0.97	0.00	10.47	8.31	-0.14	-9.51
P27	2.8614	0.15	0.53	0.78	-0.02	14.57	8.12	-0.12	-13.60	0.97	0.00	10.47	8.31	-0.14	-9.51
P42	3.4998	0.3	0.68	4.73	0.10	40.70	11.37	-0.10	-39.34	12.04	0.89	38.97	28.14	-0.89	-37.61
P45	1.2882	0.16	0.54	0.67	-0.01	3.09	2.96	-0.03	-2.89	4.99	0.05	3.98	8.61	-0.09	-3.78
P45	1.2882	0.16	0.54	0.67	-0.01	3.09	2.96	-0.03	-2.89	4.99	0.05	3.98	8.61	-0.09	-3.78
P52	0.8436	0.3	0.68	0.65	0.10	0.13	4.83	-0.10	-0.13	0.37	0.06	3.10	3.81	-0.06	-3.10
P52	0.8436	0.3	0.68	0.65	0.10	0.13	4.83	-0.10	-0.13	0.37	0.06	3.10	3.81	-0.06	-3.10
P56	4.446	0.3	0.68	10.52	0.56	63.26	13.44	0.25	-60.73	7.63	1.13	39.85	16.33	-0.33	-37.32
P56	4.446	0.3	0.68	10.52	0.56	63.26	13.44	0.25	-60.73	7.63	1.13	39.85	16.33	-0.33	-37.32
P61	5.3169	0.38	0.76	10.66	0.08	114.10	21.34	-0.16	-108.40	9.15	2.57	85.09	41.14	-2.66	-79.39
P61	5.3169	0.38	0.76	10.66	0.08	114.10	21.34	-0.16	-108.40	9.15	2.57	85.09	41.14	-2.66	-79.39
P66	2.6904	0.32	0.7	3.65	1.52	6.29	14.78	0.82	-7.56	1.55	1.46	35.27	16.89	0.88	-36.54
P66	2.6904	0.32	0.7	3.65	1.52	6.29	14.78	0.82	-7.56	1.55	1.46	35.27	16.89	0.88	-36.54
P57	0.9119	0.32	0.7	1.36	0.27	1.37	4.06	0.01	-0.57	1.51	0.22	4.36	6.93	0.06	-3.56
P42	3.4998	0.3	0.68	4.73	0.10	40.70	11.37	-0.10	-39.34	12.04	0.89	38.97	28.14	-0.89	-37.61

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ESFUERZOS ADMISIBLES		DESPLANTE	FACTO DE SEGURIDAD				
		1	F.S>=1.50	cumple			
			FS<1.5	No Cumple			
CARGA ACTUANTE	CARGA ADMISIBLE	Momento admisible M2	Momento admisible M3	ESTADO			
				CARGA	F.S	Momento M2	Momento M3
5.06	35.50	1.43787	2.381564622	Cumple	10.52	Cumple	Cumple
4.90	35.50	1.35317	2.177289192	Cumple	10.86	Cumple	Cumple
4.84	35.60	2.385406	7.47824781	Cumple	11.03	Cumple	Cumple
4.74	35.60	2.336378	7.32454503	Cumple	11.27	Cumple	Cumple
6.73	35.50	1.540805	2.05763502	Cumple	7.92	Cumple	Cumple
10.67	35.20	4.768886	9.71221283	Cumple	4.95	Cumple	Cumple
8.03	35.60	1.667462	2.201295055	Cumple	6.65	Cumple	Cumple
4.05	35.60	0.992766	1.54783899	Cumple	13.18	Cumple	Cumple
4.19	35.70	0.727551	0.8796753	Cumple	12.79	Cumple	Cumple
12.66	35.70	1.304061	0.934774635	Cumple	4.23	Cumple	Cumple
4.40	36.08	0.9894005	2.16427167	Cumple	12.29	Cumple	Cumple
9.09	36.08	2.4345465	6.35045265	Cumple	5.95	Cumple	Cumple
17.54	35.60	5.641042	11.53759002	Cumple	3.04	Cumple	Cumple
3.93	35.60	0.653208	0.68990292	Cumple	13.57	Cumple	Cumple
9.56	35.60	1.490832	1.47855456	Cumple	5.58	Cumple	Cumple
9.88	35.60	2.860352	5.26725408	Cumple	5.40	Cumple	Cumple
15.83	35.60	2.866778	3.301432135	Cumple	3.37	Cumple	Cumple
5.70	35.60	0.555288	0.34403358	Cumple	9.37	Cumple	Cumple
4.92	35.60	0.518262	0.3475404	Cumple	10.86	Cumple	Cumple
7.43	36.80	1.68335	6.09877705	Cumple	7.43	Cumple	Cumple
6.17	36.80	1.0494	2.85415812	Cumple	8.94	Cumple	Cumple
3.94	35.60	0.669766	0.724233735	Cumple	13.55	Cumple	Cumple
13.70	35.60	1.408552	0.92094444	Cumple	3.90	Cumple	Cumple
5.90	36.48	0.92934	1.86065915	Cumple	9.28	Cumple	Cumple
9.01	35.60	1.612892	1.8358506	Cumple	5.92	Cumple	Cumple
11.36	36.64	4.342806	23.60657475	Cumple	4.84	Cumple	Cumple
11.36	36.64	4.342806	23.60657475	Cumple	4.84	Cumple	Cumple
10.88	35.60	1.482298	1.284585605	Cumple	4.91	Cumple	Cumple
7.11	35.60	2.217276	4.39770609	Cumple	7.51	Cumple	Cumple
6.05	36.80	0.232775	0.143249735	Cumple	9.12	Cumple	Cumple
7.98	36.80	1.1829	2.80489248	Cumple	6.92	Cumple	Cumple
4.48	36.80	1.3211	6.23506356	Cumple	12.33	Cumple	Cumple
5.67	36.80	1.842825	9.57974148	Cumple	9.73	Cumple	Cumple
7.03	36.32	2.764468	12.3808674	Cumple	7.75	Cumple	Cumple
7.24	35.45	4.579642	16.1771016	Cumple	7.34	Cumple	Cumple
13.59	36.48	0.967491	0.87504186	Cumple	4.03	Cumple	Cumple
4.86	36.48	1.762398	8.11094724	Cumple	11.25	Cumple	Cumple
3.08	36.48	0.45549	0.8558151	Cumple	17.77	Cumple	Cumple
10.10	35.60	4.591326	13.27028253	Cumple	5.28	Cumple	Cumple
3.17	36.56	1.3844395	8.12953323	Cumple	17.31	Cumple	Cumple
8.86	36.32	0.237468	0.07251255	Cumple	6.15	Cumple	Cumple

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3.80	36.32	0.9247	2.563648188	Cumple	14.34	Cumple	Cumple
5.14	34.16	3.042954	2.85868623	Cumple	9.96	Cumple	Cumple
8.45	35.60	4.16415	13.05461025	Cumple	6.32	Cumple	Cumple
8.45	35.60	4.16415	13.05461025	Cumple	6.32	Cumple	Cumple
5.65	36.64	1.236404	3.84545421	Cumple	9.72	Cumple	Cumple
4.55	34.88	1.629432	1.96812108	Cumple	11.49	Cumple	Cumple
4.90	35.50	1.35317	2.177289192	Cumple	10.86	Cumple	Cumple
4.74	35.60	2.336378	7.32454503	Cumple	11.27	Cumple	Cumple
5.06	35.50	1.43787	2.381564622	Cumple	10.52	Cumple	Cumple
4.84	35.60	2.385406	7.47824781	Cumple	11.03	Cumple	Cumple
5.90	36.48	0.92934	1.86065915	Cumple	9.28	Cumple	Cumple
3.80	36.32	0.9247	2.563648188	Cumple	14.34	Cumple	Cumple
3.17	36.56	1.3844395	8.12953323	Cumple	17.31	Cumple	Cumple
10.52	35.60	3.487856	7.35578572	Cumple	5.08	Cumple	Cumple
9.31	35.80	5.210368	22.2376878	Cumple	5.77	Cumple	Cumple
4.91	36.56	0.8821055	2.130734157	Cumple	11.18	Cumple	Cumple
8.56	35.60	2.769674	5.701903426	Cumple	6.24	Cumple	Cumple
4.30	36.40	1.62987	7.4322072	Cumple	12.71	Cumple	Cumple
4.91	36.56	0.8821055	2.130734157	Cumple	11.18	Cumple	Cumple
6.07	35.50	9.80455	92.29022915	Cumple	8.77	Cumple	Cumple
7.16	35.60	5.861804	30.51155185	Cumple	7.45	Cumple	Cumple
7.16	35.60	5.861804	30.51155185	Cumple	7.45	Cumple	Cumple
6.07	35.50	9.80455	92.29022915	Cumple	8.77	Cumple	Cumple
7.02	35.60	7.38497	49.435858	Cumple	7.61	Cumple	Cumple
7.02	35.60	7.38497	49.435858	Cumple	7.61	Cumple	Cumple
2.64	36.64	0.895804	4.3205316	Cumple	20.80	Cumple	Cumple
2.64	36.64	0.895804	4.3205316	Cumple	20.80	Cumple	Cumple
7.13	36.56	1.597738	4.8113016	Cumple	7.69	Cumple	Cumple
7.13	36.56	1.597738	4.8113016	Cumple	7.69	Cumple	Cumple
5.48	36.56	2.2022295	11.88954621	Cumple	10.01	Cumple	Cumple
5.48	36.56	2.2022295	11.88954621	Cumple	10.01	Cumple	Cumple
11.82	35.60	9.566274	49.23536139	Cumple	4.52	Cumple	Cumple
12.38	36.48	2.325672	5.54801976	Cumple	4.42	Cumple	Cumple
12.38	36.48	2.325672	5.54801976	Cumple	4.42	Cumple	Cumple
8.42	35.60	1.641384	2.03628168	Cumple	6.35	Cumple	Cumple
8.42	35.60	1.641384	2.03628168	Cumple	6.35	Cumple	Cumple
5.40	35.60	5.55339	36.3093705	Cumple	9.88	Cumple	Cumple
5.40	35.60	5.55339	36.3093705	Cumple	9.88	Cumple	Cumple
10.18	35.20	15.634454	109.3774059	Cumple	5.19	Cumple	Cumple
10.18	35.20	15.634454	109.3774059	Cumple	5.19	Cumple	Cumple
8.97	35.50	5.909785	22.71383652	Cumple	5.94	Cumple	Cumple
8.97	35.50	5.909785	22.71383652	Cumple	5.94	Cumple	Cumple
10.86	35.50	2.427075	3.161785275	Cumple	4.90	Cumple	Cumple
11.82	35.60	9.566274	49.23536139	Cumple	4.52	Cumple	Cumple

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				CARGAS A CIMENTACION JARDIN INFANTIL CONSERVACION CIM 4 Y CIM 5											
PIER	LONGITUD m	Espesor Muro m	Espesor Base m	CIM4 Max Ton	M2 Ton*m	M3 Ton*m	CIM4 MIN Ton	M2 Ton*m	M3 Ton*m	CIM5 Max Ton	M2 Ton*m	M3 Ton*m	CIM5 Min Ton	M2 Ton*m	M3 Ton*m
P1	1.15942	0.32	0.7	3.90	0.71	2.36	4.00	-0.87	-2.64	3.73	1.74	4.22	4.16	-1.91	-4.51
P2	1.12632	0.32	0.7	3.72	1.16	3.12	3.93	-1.14	-2.38	3.70	1.32	3.71	3.95	-1.31	-2.96
P67	2.1318	0.3	0.68	7.06	0.25	1.93	7.21	-0.33	-3.26	6.94	1.19	14.22	7.33	-1.27	-15.55
P4	2.1318	0.3	0.68	6.98	0.46	5.85	7.19	-0.49	-6.77	6.97	0.53	9.81	7.21	-0.55	-10.73
P58	0.9348	0.32	0.7	4.80	1.96	1.06	4.83	1.78	0.27	4.80	1.93	2.49	4.84	1.81	-1.16
P65	1.5478	0.38	0.76	1.37	0.33	6.31	9.50	0.19	-8.46	0.04	0.66	5.62	10.92	-0.14	-7.77
P7	0.8977	0.3	0.68	1.04	0.06	1.66	4.29	-0.06	-1.55	0.90	0.09	1.41	4.43	-0.09	-1.29
P8	1.0602	0.3	0.68	2.89	0.06	1.64	3.01	-0.06	-1.42	2.91	0.10	1.26	2.99	-0.09	-1.04
P9	0.798	0.28	0.66	1.95	0.06	0.62	2.23	-0.06	-0.73	1.97	0.08	0.46	2.22	-0.09	-0.56
P10	0.4731	0.28	0.66	0.48	0.03	0.64	2.61	-0.03	-0.30	1.11	0.04	0.75	3.24	-0.04	-0.41
P11	1.2906	0.21	0.59	1.49	0.03	3.12	2.96	-0.04	-2.98	1.35	0.02	4.60	3.10	-0.03	-4.45
P12	1.539	0.21	0.59	0.05	0.04	6.14	5.42	-0.07	-6.17	1.45	0.02	9.50	6.92	-0.05	-9.52
P60	1.3908	0.3	0.68	2.24	0.13	2.60	8.06	-0.14	-3.25	7.34	0.10	12.31	13.16	-0.10	-12.96
P59	0.7182	0.3	0.68	1.77	0.07	0.09	1.94	-0.06	-0.04	1.79	0.04	1.51	1.91	-0.03	-1.47
P51	0.6744	0.3	0.68	0.38	0.06	0.70	3.73	-0.06	-0.77	0.33	0.04	2.46	3.03	-0.04	-2.53
P49	1.2522	0.3	0.68	1.64	0.08	0.63	4.24	-0.09	-0.79	1.19	0.08	8.73	7.07	-0.08	-8.89
P48	0.7831	0.3	0.68	0.96	0.00	1.08	2.69	-0.01	-1.27	3.14	0.14	2.63	6.80	-0.14	-2.81
P47	0.4213	0.3	0.68	0.93	0.00	0.32	1.37	0.00	-0.39	0.76	0.07	0.39	1.54	-0.07	-0.46
P46	0.456	0.3	0.68	0.97	0.00	0.46	1.48	0.00	-0.35	1.06	0.08	0.39	1.40	-0.08	-0.28
P15	1.8115	0.12	0.5	0.01	0.03	3.84	4.49	-0.01	-2.97	1.20	0.04	3.56	5.69	-0.02	-2.69
P3	1.3599	0.12	0.5	0.27	0.01	3.49	3.29	-0.01	-3.59	0.54	0.00	5.47	3.57	0.00	-5.57
P20	0.7353	0.3	0.68	1.64	0.09	0.54	1.95	-0.08	-0.43	1.64	0.13	0.55	1.94	-0.12	-0.43
P28	0.4446	0.3	0.68	0.34	0.04	0.69	2.74	-0.04	-0.33	1.03	0.05	0.70	3.44	-0.05	-0.34
P38	1.08115	0.16	0.54	2.33	0.89	1.33	2.72	-0.63	-1.35	1.74	1.39	1.48	3.31	-1.13	-1.49
P62	0.774	0.3	0.68	0.02	0.08	-0.09	4.12	-0.09	-1.00	0.71	0.08	6.78	3.39	-0.09	-7.87
P63	2.82661	0.14	0.52	4.05	2.85	9.00	6.28	-2.72	-7.38	3.71	2.69	17.68	14.04	-2.55	-16.06
P63	2.82661	0.14	0.52	4.05	2.85	9.00	6.28	-2.72	-7.38	3.71	2.69	17.68	14.04	-2.55	-16.06
P55	0.5893	0.3	0.68	0.85	0.04	0.63	3.01	-0.04	0.00	0.02	0.02	1.52	3.83	-0.03	-0.89
P54	1.3487	0.3	0.68	3.07	0.24	2.99	5.97	0.20	-3.69	2.82	0.44	1.95	6.22	0.00	-2.65
P30	0.3077	0.12	0.5	0.06	0.00	0.17	0.80	0.00	-0.23	0.11	0.01	0.12	0.63	0.00	-0.18
P5	1.1856	0.12	0.5	1.14	0.01	2.13	3.95	-0.01	-1.96	0.89	0.02	1.37	3.70	-0.01	-1.20
P53	2.3598	0.12	0.5	1.10	0.01	5.56	4.81	0.01	-5.98	1.85	0.06	3.34	4.06	-0.04	-3.76
P13	2.5992	0.12	0.5	0.77	0.01	7.19	6.63	-0.03	-7.69	1.26	0.01	4.27	6.14	-0.04	-4.77
P43	2.508	0.18	0.56	1.79	0.05	3.49	5.84	-0.05	-3.63	0.79	0.04	25.61	8.42	-0.04	-25.75
P41	2.508	0.33	0.71	1.89	0.27	5.82	11.42	-0.29	-6.39	2.41	0.21	27.50	10.90	-0.23	-28.07
P40	0.4884	0.16	0.54	0.16	0.00	0.41	1.16	0.00	-0.43	1.54	0.01	0.49	2.86	-0.01	-0.51
P50	2.4852	0.16	0.54	2.37	-0.06	8.34	5.42	-0.06	-8.42	1.80	0.02	5.32	5.99	-0.15	-5.40
P44	1.0146	0.16	0.54	1.50	-0.06	0.73	1.55	-0.07	-0.97	1.36	-0.03	0.47	1.69	-0.10	-0.71
P16	1.9654	0.3	0.68	0.53	0.49	10.77	11.16	0.12	-9.07	0.09	0.58	7.57	11.79	0.03	-5.87
P31	3.1122	0.15	0.53	4.26	1.05	5.78	5.02	-1.02	-6.58	4.08	2.00	13.04	5.21	-1.97	-13.84
P35	0.171	0.18	0.56	0.79	0.00	-0.30	0.85	0.00	-0.35	0.73	0.00	-0.24	0.91	0.00	-0.41

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P36	1.55255	0.18	0.56	2.17	0.13	1.61	2.83	-0.19	-1.65	1.86	0.44	4.03	3.15	-0.50	-4.07
P34	1.0146	0.7	1.08	5.47	0.50	2.34	5.62	-0.34	-2.65	5.43	1.42	3.91	5.66	-1.26	-4.21
P22	2.1318	0.3	0.68	1.63	0.21	9.42	8.74	-0.20	-8.98	0.18	0.31	9.49	10.55	-0.29	-9.05
P22	2.1318	0.3	0.68	1.63	0.21	9.42	8.74	-0.20	-8.98	0.18	0.31	9.49	10.55	-0.29	-9.05
P21	1.6173	0.14	0.52	0.08	0.02	3.18	4.16	-0.02	-3.54	0.34	0.03	2.69	3.90	-0.03	-3.04
P33	1.0146	0.46	0.84	3.70	0.23	1.89	3.85	-0.09	-1.45	3.65	0.43	2.93	3.90	-0.28	-2.50
P2	1.12632	0.32	0.7	3.72	1.16	3.12	3.93	-1.14	-2.38	3.70	1.32	3.71	3.95	-1.31	-2.96
P4	2.1318	0.3	0.68	6.98	0.46	5.85	7.19	-0.49	-6.77	6.97	0.53	9.81	7.21	-0.55	-10.73
P1	1.15942	0.32	0.7	3.90	0.71	2.36	4.00	-0.87	-2.64	3.73	1.74	4.22	4.16	-1.91	-4.51
P67	2.1318	0.3	0.68	7.06	0.25	1.93	7.21	-0.33	-3.26	6.94	1.19	14.22	7.33	-1.27	-15.55
P38	1.08115	0.16	0.54	2.33	0.89	1.33	2.72	-0.63	-1.35	1.74	1.39	1.48	3.31	-1.13	-1.49
P36	1.55255	0.18	0.56	2.17	0.13	1.61	2.83	-0.19	-1.65	1.86	0.44	4.03	3.15	-0.50	-4.07
P31	3.1122	0.15	0.53	4.26	1.05	5.78	5.02	-1.02	-6.58	4.08	2.00	13.04	5.21	-1.97	-13.84
P19	1.4341	0.3	0.68	1.52	0.13	5.64	8.64	-0.15	-5.39	0.68	0.10	7.05	7.80	-0.12	-6.81
P18	2.7315	0.26	0.64	0.48	0.17	20.55	11.02	-0.17	-19.09	2.21	0.25	14.39	13.72	-0.25	-12.94
P29	1.28022	0.15	0.53	2.42	0.86	1.81	2.99	-0.73	-1.64	2.13	0.92	1.39	3.28	-0.79	-1.22
P25	1.39991	0.3	0.68	0.11	0.12	3.57	7.02	-0.13	-3.47	0.03	0.09	5.09	6.88	-0.10	-4.99
P26	2.508	0.17	0.55	1.95	0.03	8.68	5.44	-0.04	-8.79	2.30	0.03	12.19	5.08	-0.03	-12.29
P29	1.28022	0.15	0.53	2.42	0.86	1.81	2.99	-0.73	-1.64	2.13	0.92	1.39	3.28	-0.79	-1.22
P6	6.5891	0.32	0.7	15.80	0.62	59.77	24.29	-0.65	-61.23	13.47	0.38	99.19	26.62	-0.42	-100.65
P14	3.5395	0.3	0.68	5.70	0.32	26.91	13.89	-0.32	-26.60	3.95	0.19	39.21	15.64	-0.19	-38.89
P14	3.5395	0.3	0.68	5.70	0.32	26.91	13.89	-0.32	-26.60	3.95	0.19	39.21	15.64	-0.19	-38.89
P6	6.5891	0.32	0.7	15.80	0.62	59.77	24.29	-0.65	-61.23	13.47	0.38	99.19	26.62	-0.42	-100.65
P17	4.552	0.3	0.68	7.01	0.75	49.16	16.97	0.19	-46.30	4.43	0.98	31.38	19.55	-0.04	-28.52
P17	4.552	0.3	0.68	7.01	0.75	49.16	16.97	0.19	-46.30	4.43	0.98	31.38	19.55	-0.04	-28.52
P23	2.508	0.14	0.52	2.45	0.02	9.47	3.35	-0.02	-9.24	2.48	0.02	14.03	3.32	-0.02	-13.80
P23	2.508	0.14	0.52	2.45	0.02	9.47	3.35	-0.02	-9.24	2.48	0.02	14.03	3.32	-0.02	-13.80
P24	1.596	0.15	0.53	1.14	0.01	6.44	5.03	-0.02	-5.91	0.95	0.02	4.53	4.84	-0.03	-4.00
P24	1.596	0.15	0.53	1.14	0.01	6.44	5.03	-0.02	-5.91	0.95	0.02	4.53	4.84	-0.03	-4.00
P27	2.8614	0.15	0.53	0.43	-0.05	11.14	7.11	-0.12	-9.99	0.29	-0.03	8.07	7.25	-0.14	-6.92
P27	2.8614	0.15	0.53	0.43	-0.05	11.14	7.11	-0.12	-9.99	0.29	-0.03	8.07	7.25	-0.14	-6.92
P42	3.4998	0.3	0.68	5.65	0.07	30.83	10.63	-0.08	-29.20	6.93	0.67	29.54	23.20	-0.67	-27.90
P45	1.2882	0.16	0.54	1.02	-0.02	2.36	2.73	-0.03	-2.12	3.23	0.03	3.03	6.97	-0.08	-2.79
P45	1.2882	0.16	0.54	1.02	-0.02	2.36	2.73	-0.03	-2.12	3.23	0.03	3.03	6.97	-0.08	-2.79
P52	0.8436	0.3	0.68	0.08	0.08	0.10	4.19	-0.07	-0.10	0.85	0.05	2.32	3.43	-0.04	-2.32
P52	0.8436	0.3	0.68	0.08	0.08	0.10	4.19	-0.07	-0.10	0.85	0.05	2.32	3.43	-0.04	-2.32
P56	4.446	0.3	0.68	11.34	0.60	48.01	13.54	0.37	-44.97	9.18	1.03	30.46	15.71	-0.07	-27.42
P56	4.446	0.3	0.68	11.34	0.60	48.01	13.54	0.37	-44.97	9.18	1.03	30.46	15.71	-0.07	-27.42
P61	5.3169	0.38	0.76	12.27	0.04	86.87	20.28	-0.14	-80.01	2.58	1.91	65.11	35.13	-2.01	-58.25
P61	5.3169	0.38	0.76	12.27	0.04	86.87	20.28	-0.14	-80.01	2.58	1.91	65.11	35.13	-2.01	-58.25
P66	2.6904	0.32	0.7	5.64	1.67	4.43	13.98	1.14	-5.95	4.06	1.63	26.17	15.56	1.19	-27.69
P66	2.6904	0.32	0.7	5.64	1.67	4.43	13.98	1.14	-5.95	4.06	1.63	26.17	15.56	1.19	-27.69
P57	0.9119	0.32	0.7	1.82	0.27	1.21	3.84	0.07	-0.25	0.34	0.23	3.45	6.00	0.11	-2.49
P42	3.4998	0.3	0.68	5.65	0.07	30.83	10.63	-0.08	-29.20	6.93	0.67	29.54	23.20	-0.67	-27.90

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ESFUERZOS ADMISIBLES		DESPLANTE	FACTO DE SEGURIDAD				
		1	F.S>=1.50	cumple			
			FS<1.5	No Cumple			
CARGA ACTUANTE	CARGA ADMISIBLE	Momento admisble M2	Momento admisble M3	ESTADO			
				CARGA	F.S	Momento M2	Momento M3
5.13	35.50	1.456945	2.413158817	Cumple	10.38	Cumple	Cumple
5.01	35.50	1.38229	2.224144104	Cumple	10.63	Cumple	Cumple
5.05	35.60	2.49135	7.81038225	Cumple	10.56	Cumple	Cumple
4.97	35.60	2.450448	7.68215448	Cumple	10.74	Cumple	Cumple
7.39	35.50	1.692565	2.26029966	Cumple	7.21	No Cumple	Cumple
9.28	35.20	4.148308	8.44835674	Cumple	5.69	Cumple	Cumple
7.26	35.60	1.507628	1.99029067	Cumple	7.35	Cumple	Cumple
4.17	35.60	1.02289	1.59480585	Cumple	12.80	Cumple	Cumple
4.24	35.70	0.736956	0.8910468	Cumple	12.63	Cumple	Cumple
10.38	35.70	1.069761	0.766824135	Cumple	5.16	Cumple	Cumple
4.07	36.08	0.9152965	2.00217231	Cumple	13.28	Cumple	Cumple
7.62	36.08	2.041105	5.3241705	Cumple	7.10	Cumple	Cumple
13.91	35.60	4.472938	9.14847378	Cumple	3.84	Cumple	Cumple
3.97	35.60	0.658614	0.69561261	Cumple	13.46	Cumple	Cumple
8.14	35.60	1.26888	1.2584304	Cumple	6.56	Cumple	Cumple
8.30	35.60	2.404208	4.42727832	Cumple	6.43	Cumple	Cumple
12.76	35.60	2.31047	2.660778025	Cumple	4.18	Cumple	Cumple
5.38	35.60	0.524382	0.324885495	Cumple	9.92	Cumple	Cumple
4.77	35.60	0.502826	0.3371892	Cumple	11.20	Cumple	Cumple
6.29	36.80	1.42365	5.15788395	Cumple	8.78	Cumple	Cumple
5.24	36.80	0.891425	2.424497715	Cumple	10.53	Cumple	Cumple
3.90	35.60	0.662218	0.716071905	Cumple	13.71	Cumple	Cumple
11.36	35.60	1.168172	0.76377834	Cumple	4.70	Cumple	Cumple
5.68	36.48	0.894645	1.791195263	Cumple	9.64	Cumple	Cumple
7.82	35.60	1.399406	1.5928533	Cumple	6.83	Cumple	Cumple
9.55	36.64	3.651128	19.84675945	Cumple	5.75	Cumple	Cumple
9.55	36.64	3.651128	19.84675945	Cumple	5.75	Cumple	Cumple
9.57	35.60	1.303322	1.129481845	Cumple	5.58	Cumple	Cumple
6.78	35.60	2.114902	4.194659305	Cumple	7.87	Cumple	Cumple
5.22	36.80	0.20095	0.12366463	Cumple	10.57	Cumple	Cumple
6.66	36.80	0.986675	2.33960376	Cumple	8.29	Cumple	Cumple
4.08	36.80	1.20345	5.67980262	Cumple	13.53	Cumple	Cumple
5.10	36.80	1.657725	8.61751764	Cumple	10.82	Cumple	Cumple
6.00	36.32	2.358972	10.5648246	Cumple	9.08	Cumple	Cumple
6.41	35.45	4.0536385	14.3190498	Cumple	8.29	Cumple	Cumple
10.86	36.48	0.773172	0.69929112	Cumple	5.04	Cumple	Cumple
4.47	36.48	1.617948	7.44615624	Cumple	12.25	Cumple	Cumple
3.08	36.48	0.455328	0.85551072	Cumple	17.78	Cumple	Cumple
8.82	35.60	4.007444	11.58269182	Cumple	6.05	Cumple	Cumple
3.16	36.56	1.380915	8.1088371	Cumple	17.36	Cumple	Cumple
9.52	36.32	0.255276	0.07795035	Cumple	5.72	Cumple	Cumple

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3.62	36.32	0.88186	2.444878113	Cumple	15.04	Cumple	Cumple
5.16	34.16	3.055968	2.87091216	Cumple	9.92	Cumple	Cumple
7.28	35.60	3.586218	11.24279343	Cumple	7.34	Cumple	Cumple
7.28	35.60	3.586218	11.24279343	Cumple	7.34	Cumple	Cumple
4.94	36.64	1.080326	3.360021615	Cumple	11.12	Cumple	Cumple
4.58	34.88	1.637706	1.97811489	Cumple	11.44	Cumple	Cumple
5.01	35.50	1.38229	2.224144104	Cumple	10.63	Cumple	Cumple
4.97	35.60	2.450448	7.68215448	Cumple	10.74	Cumple	Cumple
5.13	35.50	1.456945	2.413158817	Cumple	10.38	Cumple	Cumple
5.05	35.60	2.49135	7.81038225	Cumple	10.56	Cumple	Cumple
5.68	36.48	0.894645	1.791195263	Cumple	9.64	Cumple	Cumple
3.62	36.32	0.88186	2.444878113	Cumple	15.04	Cumple	Cumple
3.16	36.56	1.380915	8.1088371	Cumple	17.36	Cumple	Cumple
8.86	35.60	2.936444	6.19287403	Cumple	6.03	Cumple	Cumple
7.85	35.80	4.39072	18.73945575	Cumple	6.84	Cumple	Cumple
4.84	36.56	0.870048	2.101609152	Cumple	11.33	Cumple	Cumple
7.38	35.60	2.388126	4.916413925	Cumple	7.24	Cumple	Cumple
3.94	36.40	1.496165	6.8225124	Cumple	13.84	Cumple	Cumple
4.84	36.56	0.870048	2.101609152	Cumple	11.33	Cumple	Cumple
5.77	35.50	9.31616	87.69301408	Cumple	9.23	Cumple	Cumple
6.50	35.60	5.317328	27.6774742	Cumple	8.22	Cumple	Cumple
6.50	35.60	5.317328	27.6774742	Cumple	8.22	Cumple	Cumple
5.77	35.50	9.31616	87.69301408	Cumple	9.23	Cumple	Cumple
6.32	35.60	6.64768	44.500352	Cumple	8.45	Cumple	Cumple
6.32	35.60	6.64768	44.500352	Cumple	8.45	Cumple	Cumple
2.57	36.64	0.871364	4.2026556	Cumple	21.39	Cumple	Cumple
2.57	36.64	0.871364	4.2026556	Cumple	21.39	Cumple	Cumple
5.95	36.56	1.3337715	4.0164138	Cumple	9.22	Cumple	Cumple
5.95	36.56	1.3337715	4.0164138	Cumple	9.22	Cumple	Cumple
4.78	36.56	1.921038	10.37143044	Cumple	11.47	Cumple	Cumple
4.78	36.56	1.921038	10.37143044	Cumple	11.47	Cumple	Cumple
9.75	35.60	7.888714	40.60135479	Cumple	5.48	Cumple	Cumple
10.03	36.48	1.883088	4.49221104	Cumple	5.46	Cumple	Cumple
10.03	36.48	1.883088	4.49221104	Cumple	5.46	Cumple	Cumple
7.31	35.60	1.425008	1.76784816	Cumple	7.31	Cumple	Cumple
7.31	35.60	1.425008	1.76784816	Cumple	7.31	Cumple	Cumple
5.20	35.60	5.340108	34.9148826	Cumple	10.28	Cumple	Cumple
5.20	35.60	5.340108	34.9148826	Cumple	10.28	Cumple	Cumple
8.69	35.20	13.350274	93.39746294	Cumple	6.07	Cumple	Cumple
8.69	35.20	13.350274	93.39746294	Cumple	6.07	Cumple	Cumple
8.26	35.50	5.44544	20.92915968	Cumple	6.45	Cumple	Cumple
8.26	35.50	5.44544	20.92915968	Cumple	6.45	Cumple	Cumple
9.39	35.50	2.09888	2.73424096	Cumple	5.67	Cumple	Cumple
9.75	35.60	7.888714	40.60135479	Cumple	5.48	Cumple	Cumple

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CARGAS A CIMENTACION JARDIN INFANTIL CONSERVACION CIM 6 Y CIM 7

PIER	LONGITUD m	Espesor Muro m	Espesor Base m	CIM6 Max Ton	M2 Ton*m	M3 Ton*m	CIM6 MIN Ton	M2 Ton*m	M3 Ton*m	CIM7 Max Ton	M2 Ton*m	M3 Ton*m	CIM7 Min Ton	M2 Ton*m	M3 Ton*m
P1	1.15942	0.32	0.7	2.22	1.01	3.26	2.36	-1.10	-3.40	2.01	2.39	5.75	2.58	-2.47	-5.89
P2	1.12632	0.32	0.7	2.08	1.54	3.85	2.36	-1.53	-3.48	2.06	1.76	4.64	2.39	-1.75	-4.26
P67	2.1318	0.3	0.68	3.96	0.37	3.12	4.15	-0.41	-3.79	3.80	1.62	19.52	4.31	-1.66	-20.18
P4	2.1318	0.3	0.68	3.89	0.62	8.18	4.17	-0.64	-8.64	3.87	0.71	13.46	4.19	-0.72	-13.93
P58	0.9348	0.32	0.7	2.60	1.06	0.86	2.65	0.81	-0.19	2.60	1.01	2.77	2.65	0.86	-2.10
P65	1.5478	0.38	0.76	2.27	0.22	9.31	8.57	0.04	-10.38	4.16	0.67	8.39	10.45	-0.41	-9.46
P7	0.8977	0.3	0.68	0.64	0.08	2.17	3.69	-0.08	-2.11	0.83	0.13	1.83	3.89	-0.13	-1.77
P8	1.0602	0.3	0.68	1.63	0.09	2.09	1.78	-0.09	-1.99	1.65	0.13	1.59	1.76	-0.13	-1.48
P9	0.798	0.28	0.66	1.02	0.08	0.87	1.40	-0.08	-0.93	1.05	0.11	0.65	1.37	-0.12	-0.70
P10	0.4731	0.28	0.66	1.44	0.04	0.71	2.69	-0.04	-0.54	2.28	0.06	0.86	3.53	-0.06	-0.69
P11	1.2906	0.21	0.59	0.33	0.04	4.10	2.30	-0.05	-4.03	0.14	0.03	6.07	2.48	-0.03	-6.00
P12	1.539	0.21	0.59	1.97	0.07	8.20	5.18	-0.09	-8.21	3.97	0.04	12.68	7.18	-0.06	-12.69
P60	1.3908	0.3	0.68	5.11	0.18	3.74	8.62	-0.18	-4.06	11.91	0.13	16.68	15.42	-0.13	-17.01
P59	0.7182	0.3	0.68	0.97	0.09	0.10	1.20	-0.08	-0.07	1.01	0.05	2.00	1.16	-0.05	-1.97
P51	0.6744	0.3	0.68	1.76	0.07	0.96	3.73	-0.07	-1.00	0.81	0.05	3.31	2.79	-0.05	-3.34
P49	1.2522	0.3	0.68	0.01	0.11	0.91	3.48	-0.11	-0.99	3.77	0.11	11.70	7.25	-0.11	-11.78
P48	0.7831	0.3	0.68	0.07	0.01	1.52	2.23	-0.01	-1.61	5.54	0.19	3.58	7.71	-0.19	-3.67
P47	0.4213	0.3	0.68	0.37	0.00	0.45	0.96	0.00	-0.49	0.15	0.10	0.55	1.19	-0.10	-0.58
P46	0.456	0.3	0.68	0.38	0.00	0.56	1.05	-0.01	-0.51	0.49	0.10	0.48	0.94	-0.10	-0.42
P15	1.8115	0.12	0.5	1.71	0.03	4.76	4.27	-0.02	-4.32	3.31	0.04	4.39	5.88	-0.03	-3.95
P3	1.3599	0.12	0.5	1.50	0.01	4.70	3.25	-0.01	-4.75	1.86	0.01	7.33	3.61	-0.01	-7.38
P20	0.7353	0.3	0.68	0.85	0.11	0.68	1.26	-0.10	-0.62	0.86	0.16	0.68	1.26	-0.16	-0.63
P28	0.4446	0.3	0.68	1.36	0.05	0.76	2.76	-0.05	-0.58	2.28	0.07	0.78	3.68	-0.07	-0.60
P38	1.08115	0.16	0.54	1.18	1.08	1.78	1.69	-0.95	-1.79	0.38	1.75	1.98	2.49	-1.62	-1.98
P62	0.774	0.3	0.68	1.56	0.11	0.34	3.95	-0.12	-0.88	0.59	0.11	9.50	2.98	-0.11	-10.04
P63	2.82661	0.14	0.52	1.44	3.75	11.33	4.41	-3.68	-10.52	8.91	3.52	22.89	14.76	-3.46	-22.08
P63	2.82661	0.14	0.52	1.44	3.75	11.33	4.41	-3.68	-10.52	8.91	3.52	22.89	14.76	-3.46	-22.08
P55	0.5893	0.3	0.68	0.35	0.05	0.58	2.53	-0.05	-0.26	1.45	0.03	1.77	3.63	-0.03	-1.45
P54	1.3487	0.3	0.68	0.62	0.14	4.28	4.49	0.08	-4.63	0.29	0.40	2.89	4.82	-0.19	-3.24
P30	0.3077	0.12	0.5	0.37	0.00	0.26	0.79	0.00	-0.29	0.13	0.01	0.18	0.56	-0.01	-0.21
P5	1.1856	0.12	0.5	2.58	0.02	2.77	4.19	-0.01	-2.68	2.25	0.02	1.76	3.86	-0.02	-1.67
P53	2.3598	0.12	0.5	0.79	0.01	7.58	4.16	0.00	-7.79	0.21	0.07	4.63	3.16	-0.06	-4.84
P13	2.5992	0.12	0.5	1.83	0.02	9.80	5.99	-0.03	-10.05	1.17	0.03	5.90	5.33	-0.04	-6.15
P43	2.508	0.18	0.56	0.47	0.06	4.71	4.94	-0.06	-4.77	3.91	0.06	34.21	8.38	-0.06	-34.28
P41	2.508	0.33	0.71	2.42	0.37	8.00	10.28	-0.38	-8.28	1.73	0.29	36.91	9.58	-0.30	-37.19
P40	0.4884	0.16	0.54	0.28	0.00	0.55	1.05	0.00	-0.56	2.55	0.01	0.67	3.33	-0.01	-0.68
P50	2.4852	0.16	0.54	0.20	-0.03	11.16	4.27	-0.03	-11.20	0.56	0.08	7.12	5.04	-0.14	-7.17
P44	1.0146	0.16	0.54	0.85	-0.03	1.08	0.92	-0.04	-1.20	0.66	0.01	0.73	1.10	-0.08	-0.85
P16	1.9654	0.3	0.68	3.74	0.40	13.65	10.44	-0.09	-12.81	4.57	0.52	9.38	11.27	-0.21	-8.53
P31	3.1122	0.15	0.53	2.17	1.39	8.04	3.19	-1.37	-8.44	1.92	2.65	17.72	3.44	-2.64	-18.12
P35	0.171	0.18	0.56	0.39	0.00	-0.13	0.48	0.00	-0.20	0.31	0.00	-0.04	0.56	0.00	-0.28

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P36	1.55255	0.18	0.56	1.03	0.20	2.16	1.90	-0.23	-2.18	0.60	0.61	5.39	2.33	-0.64	-5.42
P34	1.0146	0.7	1.08	3.19	0.61	3.25	3.39	-0.52	-3.40	3.13	1.82	5.34	3.44	-1.74	-5.49
P22	2.1318	0.3	0.68	1.68	0.28	12.38	7.79	-0.27	-12.16	4.10	0.40	12.47	10.21	-0.39	-12.25
P22	2.1318	0.3	0.68	1.68	0.28	12.38	7.79	-0.27	-12.16	4.10	0.40	12.47	10.21	-0.39	-12.25
P21	1.6173	0.14	0.52	1.49	0.02	4.39	3.94	-0.03	-4.57	1.15	0.04	3.73	3.60	-0.04	-3.91
P33	1.0146	0.46	0.84	2.13	0.25	2.33	2.33	-0.17	-2.11	2.06	0.51	3.73	2.39	-0.43	-3.51
P2	1.12632	0.32	0.7	2.08	1.54	3.85	2.36	-1.53	-3.48	2.06	1.76	4.64	2.39	-1.75	-4.26
P4	2.1318	0.3	0.68	3.89	0.62	8.18	4.17	-0.64	-8.64	3.87	0.71	13.46	4.19	-0.72	-13.93
P1	1.15942	0.32	0.7	2.22	1.01	3.26	2.36	-1.10	-3.40	2.01	2.39	5.75	2.58	-2.47	-5.89
P67	2.1318	0.3	0.68	3.96	0.37	3.12	4.15	-0.41	-3.79	3.80	1.62	19.52	4.31	-1.66	-20.18
P38	1.08115	0.16	0.54	1.18	1.08	1.78	1.69	-0.95	-1.79	0.38	1.75	1.98	2.49	-1.62	-1.98
P36	1.55255	0.18	0.56	1.03	0.20	2.16	1.90	-0.23	-2.18	0.60	0.61	5.39	2.33	-0.64	-5.42
P31	3.1122	0.15	0.53	2.17	1.39	8.04	3.19	-1.37	-8.44	1.92	2.65	17.72	3.44	-2.64	-18.12
P19	1.4341	0.3	0.68	4.67	0.18	7.42	8.86	-0.19	-7.29	3.56	0.15	9.30	7.75	-0.16	-9.18
P18	2.7315	0.26	0.64	3.63	0.23	26.79	10.42	-0.23	-26.06	7.23	0.33	18.58	14.02	-0.33	-17.85
P29	1.28022	0.15	0.53	1.16	1.09	2.34	1.91	-1.02	-2.25	0.76	1.17	1.78	2.31	-1.10	-1.70
P25	1.39991	0.3	0.68	2.72	0.17	4.72	6.79	-0.17	-4.67	2.53	0.13	6.75	6.60	-0.13	-6.70
P26	2.508	0.17	0.55	0.17	0.05	11.62	4.49	-0.05	-11.67	0.30	0.04	16.29	4.01	-0.04	-16.34
P29	1.28022	0.15	0.53	1.16	1.09	2.34	1.91	-1.02	-2.25	0.76	1.17	1.78	2.31	-1.10	-1.70
P6	6.5891	0.32	0.7	5.89	0.84	80.30	17.21	-0.86	-81.04	2.79	0.53	132.86	20.31	-0.55	-133.60
P14	3.5395	0.3	0.68	0.21	0.43	35.75	11.13	-0.43	-35.60	2.12	0.25	52.14	13.46	-0.25	-51.99
P14	3.5395	0.3	0.68	0.21	0.43	35.75	11.13	-0.43	-35.60	2.12	0.25	52.14	13.46	-0.25	-51.99
P6	6.5891	0.32	0.7	5.89	0.84	80.30	17.21	-0.86	-81.04	2.79	0.53	132.86	20.31	-0.55	-133.60
P17	4.552	0.3	0.68	0.34	0.61	64.35	13.63	-0.14	-62.93	3.10	0.91	40.64	17.06	-0.44	-39.22
P17	4.552	0.3	0.68	0.34	0.61	64.35	13.63	-0.14	-62.93	3.10	0.91	40.64	17.06	-0.44	-39.22
P23	2.508	0.14	0.52	1.10	0.03	12.53	2.31	-0.03	-12.41	1.15	0.02	18.61	2.26	-0.02	-18.50
P23	2.508	0.14	0.52	1.10	0.03	12.53	2.31	-0.03	-12.41	1.15	0.02	18.61	2.26	-0.02	-18.50
P24	1.596	0.15	0.53	2.97	0.02	8.36	5.26	-0.02	-8.10	2.72	0.03	5.81	5.01	-0.03	-5.55
P24	1.596	0.15	0.53	2.97	0.02	8.36	5.26	-0.02	-8.10	2.72	0.03	5.81	5.01	-0.03	-5.55
P27	2.8614	0.15	0.53	2.25	0.01	14.37	6.65	-0.09	-13.80	2.44	0.03	10.28	6.84	-0.11	-9.70
P27	2.8614	0.15	0.53	2.25	0.01	14.37	6.65	-0.09	-13.80	2.44	0.03	10.28	6.84	-0.11	-9.70
P42	3.4998	0.3	0.68	1.51	0.10	40.43	8.15	-0.10	-39.61	15.26	0.89	38.70	24.92	-0.89	-37.89
P45	1.2882	0.16	0.54	0.06	-0.01	3.05	2.23	-0.02	-2.93	5.71	0.06	3.94	7.89	-0.08	-3.82
P45	1.2882	0.16	0.54	0.06	-0.01	3.05	2.23	-0.02	-2.93	5.71	0.06	3.94	7.89	-0.08	-3.82
P52	0.8436	0.3	0.68	1.49	0.10	0.13	3.99	-0.10	-0.13	0.47	0.06	3.10	2.97	-0.06	-3.10
P52	0.8436	0.3	0.68	1.49	0.10	0.13	3.99	-0.10	-0.13	0.47	0.06	3.10	2.97	-0.06	-3.10
P56	4.446	0.3	0.68	5.72	0.40	62.75	8.65	0.09	-61.23	2.84	0.97	39.34	11.54	-0.49	-37.83
P56	4.446	0.3	0.68	5.72	0.40	62.75	8.65	0.09	-61.23	2.84	0.97	39.34	11.54	-0.49	-37.83
P61	5.3169	0.38	0.76	4.26	0.09	112.96	14.94	-0.14	-109.54	15.55	2.59	83.95	34.74	-2.64	-80.53
P61	5.3169	0.38	0.76	4.26	0.09	112.96	14.94	-0.14	-109.54	15.55	2.59	83.95	34.74	-2.64	-80.53
P66	2.6904	0.32	0.7	0.03	1.05	6.54	11.09	0.35	-7.30	2.14	1.00	35.53	13.20	0.41	-36.29
P66	2.6904	0.32	0.7	0.03	1.05	6.54	11.09	0.35	-7.30	2.14	1.00	35.53	13.20	0.41	-36.29
P57	0.9119	0.32	0.7	0.27	0.22	1.21	2.98	-0.05	-0.73	2.60	0.17	4.20	5.85	0.00	-3.72
P42	3.4998	0.3	0.68	1.51	0.10	40.43	8.15	-0.10	-39.61	15.26	0.89	38.70	24.92	-0.89	-37.89

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ESFUERZOS ADMISIBLES		DESPLANTE	FACTO DE SEGURIDAD				
		1	F.S>=1.50	cumple			
			FS<1.5	No Cumple			
CARGA ACTUANTE	CARGA ADMISIBLE	Momento admisible M2	Momento admisible M3	ESTADO			
				CARGA	F.S	Momento M2	Momento M3
3.18	35.50	0.90286	1.495419916	Cumple	16.75	Cumple	Cumple
3.03	35.50	0.83496	1.343474496	Cumple	17.60	Cumple	Cumple
2.97	35.60	1.466284	4.59680034	Cumple	17.95	Cumple	Cumple
2.89	35.60	1.423478	4.46260353	Cumple	18.49	Cumple	Cumple
4.05	35.50	0.928235	1.23959154	Cumple	13.14	Cumple	Cumple
8.89	35.20	3.971836	8.08895758	Cumple	5.94	Cumple	Cumple
6.37	35.60	1.32107	1.744006675	Cumple	8.39	Cumple	Cumple
2.47	35.60	0.60605	0.94490325	Cumple	21.60	Cumple	Cumple
2.65	35.70	0.461307	0.5577621	Cumple	20.18	Cumple	Cumple
11.31	35.70	1.165791	0.835660185	Cumple	4.73	Cumple	Cumple
3.26	36.08	0.7317475	1.60066665	Cumple	16.61	Cumple	Cumple
7.91	36.08	2.119044	5.5274724	Cumple	6.84	Cumple	Cumple
16.30	35.60	5.242834	10.72313754	Cumple	3.28	Cumple	Cumple
2.45	35.60	0.407116	0.42998634	Cumple	21.78	Cumple	Cumple
8.13	35.60	1.267418	1.25698044	Cumple	6.57	Cumple	Cumple
8.52	35.60	2.46534	4.5398511	Cumple	6.27	Cumple	Cumple
14.48	35.60	2.621162	3.018576415	Cumple	3.69	Cumple	Cumple
4.15	35.60	0.40375	0.250146875	Cumple	12.88	Cumple	Cumple
3.38	35.60	0.35666	0.239172	Cumple	15.78	Cumple	Cumple
6.49	36.80	1.469475	5.323907925	Cumple	8.51	Cumple	Cumple
5.32	36.80	0.903525	2.457407295	Cumple	10.39	Cumple	Cumple
2.53	35.60	0.430066	0.465040485	Cumple	21.11	Cumple	Cumple
12.16	35.60	1.25035	0.81750825	Cumple	4.39	Cumple	Cumple
4.26	36.48	0.671085	1.343599163	Cumple	12.85	Cumple	Cumple
7.50	35.60	1.34266	1.528263	Cumple	7.12	Cumple	Cumple
10.04	36.64	3.836352	20.85359794	Cumple	5.47	Cumple	Cumple
10.04	36.64	3.836352	20.85359794	Cumple	5.47	Cumple	Cumple
9.06	35.60	1.234676	1.06999201	Cumple	5.89	Cumple	Cumple
5.25	35.60	1.638596	3.24996239	Cumple	10.16	Cumple	Cumple
5.13	36.80	0.19745	0.12151073	Cumple	10.75	Cumple	Cumple
7.08	36.80	1.0486	2.48644032	Cumple	7.80	Cumple	Cumple
3.53	36.80	1.040375	4.91015385	Cumple	15.65	Cumple	Cumple
4.61	36.80	1.4965	7.7794056	Cumple	11.98	Cumple	Cumple
5.97	36.32	2.34682	10.510401	Cumple	9.13	Cumple	Cumple
5.77	35.45	3.649826	12.8926248	Cumple	9.21	Cumple	Cumple
12.61	36.48	0.897804	0.81201384	Cumple	4.34	Cumple	Cumple
3.75	36.48	1.359504	6.25673952	Cumple	14.58	Cumple	Cumple
2.01	36.48	0.296946	0.55792854	Cumple	27.26	Cumple	Cumple
8.43	35.60	3.83197	11.07552035	Cumple	6.33	Cumple	Cumple
2.08	36.56	0.910911	5.34893814	Cumple	26.32	Cumple	Cumple
5.82	36.32	0.156184	0.0476919	Cumple	9.35	Cumple	Cumple

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2.68	36.32	0.65128	1.80561565	Cumple	20.36	Cumple	Cumple
3.14	34.16	1.85949	1.74688755	Cumple	16.31	Cumple	Cumple
7.04	35.60	3.471298	10.88251923	Cumple	7.58	Cumple	Cumple
7.04	35.60	3.471298	10.88251923	Cumple	7.58	Cumple	Cumple
4.68	36.64	1.024192	3.18543408	Cumple	11.73	Cumple	Cumple
2.81	34.88	1.005606	1.21462839	Cumple	18.62	Cumple	Cumple
3.03	35.50	0.83496	1.343474496	Cumple	17.60	Cumple	Cumple
2.89	35.60	1.423478	4.46260353	Cumple	18.49	Cumple	Cumple
3.18	35.50	0.90286	1.495419916	Cumple	16.75	Cumple	Cumple
2.97	35.60	1.466284	4.59680034	Cumple	17.95	Cumple	Cumple
4.26	36.48	0.671085	1.343599163	Cumple	12.85	Cumple	Cumple
2.68	36.32	0.65128	1.80561565	Cumple	20.36	Cumple	Cumple
2.08	36.56	0.910911	5.34893814	Cumple	26.32	Cumple	Cumple
9.09	35.60	3.013216	6.35478392	Cumple	5.88	Cumple	Cumple
8.02	35.80	4.486048	19.14631268	Cumple	6.70	Cumple	Cumple
3.40	36.56	0.610931	1.475709594	Cumple	16.14	Cumple	Cumple
7.13	35.60	2.308328	4.752134486	Cumple	7.49	Cumple	Cumple
3.25	36.40	1.234035	5.6271996	Cumple	16.78	Cumple	Cumple
3.40	36.56	0.610931	1.475709594	Cumple	16.14	Cumple	Cumple
4.40	35.50	7.109515	66.9218647	Cumple	12.09	Cumple	Cumple
5.59	35.60	4.576808	23.8229587	Cumple	9.55	Cumple	Cumple
5.59	35.60	4.576808	23.8229587	Cumple	9.55	Cumple	Cumple
4.40	35.50	7.109515	66.9218647	Cumple	12.09	Cumple	Cumple
5.51	35.60	5.801964	38.8390296	Cumple	9.69	Cumple	Cumple
5.51	35.60	5.801964	38.8390296	Cumple	9.69	Cumple	Cumple
1.77	36.64	0.60021	2.894859	Cumple	31.05	Cumple	Cumple
1.77	36.64	0.60021	2.894859	Cumple	31.05	Cumple	Cumple
6.22	36.56	1.39496	4.200672	Cumple	8.81	Cumple	Cumple
6.22	36.56	1.39496	4.200672	Cumple	8.81	Cumple	Cumple
4.51	36.56	1.8134215	9.79042317	Cumple	12.15	Cumple	Cumple
4.51	36.56	1.8134215	9.79042317	Cumple	12.15	Cumple	Cumple
10.47	35.60	8.471712	43.60190832	Cumple	5.10	Cumple	Cumple
11.34	36.48	2.129787	5.08072521	Cumple	4.83	Cumple	Cumple
11.34	36.48	2.129787	5.08072521	Cumple	4.83	Cumple	Cumple
6.96	35.60	1.357314	1.68386778	Cumple	7.67	Cumple	Cumple
6.96	35.60	1.357314	1.68386778	Cumple	7.67	Cumple	Cumple
3.82	35.60	3.924008	25.6560876	Cumple	13.99	Cumple	Cumple
3.82	35.60	3.924008	25.6560876	Cumple	13.99	Cumple	Cumple
8.60	35.20	13.202644	92.36465511	Cumple	6.14	Cumple	Cumple
8.60	35.20	13.202644	92.36465511	Cumple	6.14	Cumple	Cumple
7.01	35.50	4.61944	17.75448768	Cumple	7.60	Cumple	Cumple
7.01	35.50	4.61944	17.75448768	Cumple	7.60	Cumple	Cumple
9.17	35.50	2.047675	2.667535475	Cumple	5.81	Cumple	Cumple
10.47	35.60	8.471712	43.60190832	Cumple	5.10	Cumple	Cumple

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Como se puede observar la cimentación existente no presenta factores de seguridad menores de 3.0, ante el efecto de cargas gravitacionales y ante cargas gravitacionales más sismo .

9 CONCLUSIONES

El análisis de las estructuras que conforman el jardín Infantil se realizó teniendo en cuenta las indicaciones establecidas en el Reglamento Colombiano De Construcción Sismo resistente NSR – 10 Capitulo A.10 para la Evaluación E Intervención De Edificaciones Construidas Antes De La Vigencia De La Norma Actual Del Reglamento.

El análisis de cargas efectuado para la estructura existente se realizó teniendo en cuenta los valores establecidos por el reglamento NSR-10 en su Título B, donde se establecen las cargas que deben emplearse para el diseño, diferentes a las fuerzas o efectos que impone el sismo.

En las visitas realizadas se pudo identificar la geometría y conformación de la edificación original y una serie de cuerpos que han sido adosados conforme los requerimientos de funcionalidad que se presenta en el jardín Infantil, de esta manera se definieron bloques de trabajo de la siguiente manera:

El bloque fundacional se encuentra constituido por la estructura en “Cruz” que representa la conformación estructural original, estos elementos cuenta con muros en mamposteara simple como sistema estructura.

El bloque de concreto presenta una conformación más moderna que el bloque fundacional, esta edificación cuenta con un sistema estructural de pórticos resistentes a momentos con vigas de cubierta perimetrales que soportan elementos metálicos tipo cercha.

A los anteriores bloques se suman las adiciones generadas a lo largo del tiempo y que han sido constituidas como estructuras de apoyo para los servicios prestados, estas estructuras están constituidas en elementos de mampostería simple sin refuerzo y desvinculan completamente la organización arquitectónica de la edificación patrimonial, por lo cual se prevé la demolición y restauración de la concepción original del sientte del bloque fundacional.

De esta manera y de acuerdo con las características de la edificación se pudo determinar que el sistema de resistencia sísmicas actual compuesto por muros de mampostería no reforzada del bloque fundacional, no es acorde con los requisitos y lineamientos mínimos del Reglamento Colombiano de Construcción Sismo Resistente, por tal razón se deben implementar procesos reforzamiento que garanticen las disposiciones dadas para zonas de amenaza sísmica intermedia y grado de disipación de energía Moderado.

Adicionalmente y con base en los análisis de elementos realizados se pudo determinar falencias por índices de sobre esfuerzo sobre los muros de mampostería al ser sometidos a cargas horizontales, lo anterior debido en gran medida a la falta o nula capacidad de disipación que conlleva el sistema estructural actual, sin embargo, ante un análisis de cargas gravitacionales, se observó un comportamiento acorde sin presencia de sobre esfuerzo sobre los elementos.

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Lo anterior sumado a la resistencia de materiales encontrada para las unidades de mampostería, permiten considerar para el reforzamiento una nueva estructura adosada a los muros de mampostería existente, donde estos pasan a ser parte del sistema de elementos no Estructurales de la Edificación.

Para la estructura a porticada en concreto se observó un buen comportamiento ante cargas sísmicas y un sistema estructural y secciones acordes con los requisitos del Reglamento para zonas de amenaza sísmica intermedia, sin embargo el acero de refuerzo suministrado a los elementos permite evidenciar falencias en los requisitos de cuantías mínimas y exigencias para un grado de disipación de energía moderado, por lo cual se deben estudiar alternativas de reforzamiento que permita al sistema suplir las falencias encontradas y llegar a un pleno cumplimiento de los lineamientos dados por la NSR-10.

La determinación de la alternativa de intervención estructural más conveniente debe ser evaluada no sólo a la luz de los requerimientos estructurales actualizados al reglamento vigente, sino que además se debe tener en cuenta el entorno socioeconómico de la edificación, el grado de afectación de la estructura, los ocupantes y demás factores que puedan llegar a dificultar la puesta en marcha de la alternativa adoptada.

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