



PROYECTO CENTRO DE SERVICIO INFONAVIT (CESI), TORREON.

Proyecto Ejecutivo – Memoria de Cálculo de
Estructuras.

Ref. E17/MX-1161 _ Rev. 00

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Arquitectos

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PROJECT >



ingenor		ENCARGO: PROYECTO CENTRO DE SERVICIOS INFONAVIT (CESI) TORREON.			
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1 INTRODUCCIÓN Y OBJETIVO.

Los Centros de Servicio INFONAVIT (CESI), son oficinas que brindan atención personalizada sobre trámites y servicios relativos al crédito y al ahorro de los trabajadores derechohabientes, establecidos en diversos lugares o plazas en los que se requiere la presencia institucional en todo el país.

El proyecto CESI Torreón, con una superficie de terreno de 1961.87 m² de oficinas (2 niveles de oficinas y estacionamiento). Se encuentra localizado en Lote 2, 3, 4 y 5 Fraccionamiento B-2, Manzana 44-A, Avenida Juárez. Fraccionamiento Las Torres, Municipio de Torreón, Estado de Coahuila.

El objetivo de la presente memoria es describir la estructuración al igual que los parámetros de diseño para el edificio que será destinado para el uso de oficinas, así como sus diferentes áreas de uso de reunión, cuartos de servicio de acuerdo a la información proporcionada por el cliente y la normatividad vigente.

2 DESCRIPCIÓN GENERAL DEL PROYECTO.

Compuesto por un predio de forma rectangular y topografía plana. Con base a la constancia de alineamiento las medidas generales son las siguientes, al Norte colinda con Propiedad privada, al Este con Lote 6, al Oeste con Lote 1 y al Sur con la Avenida Juárez.

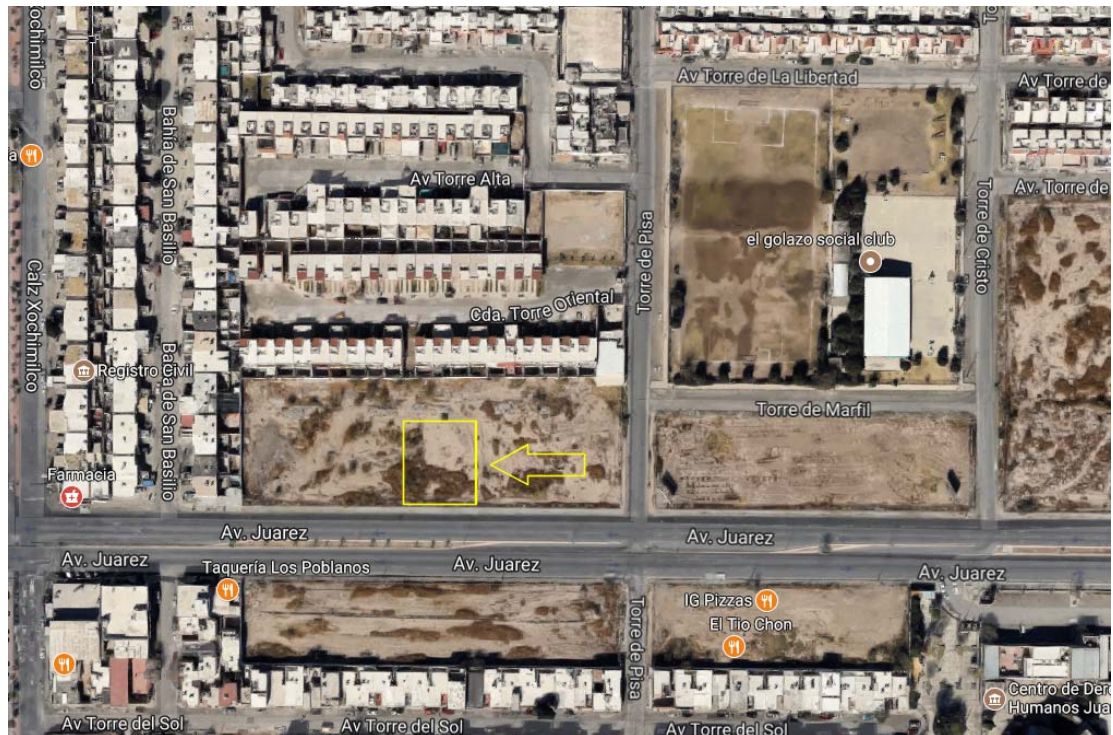


Fig. 1 Localización del emplazamiento del "CESI Torreón".



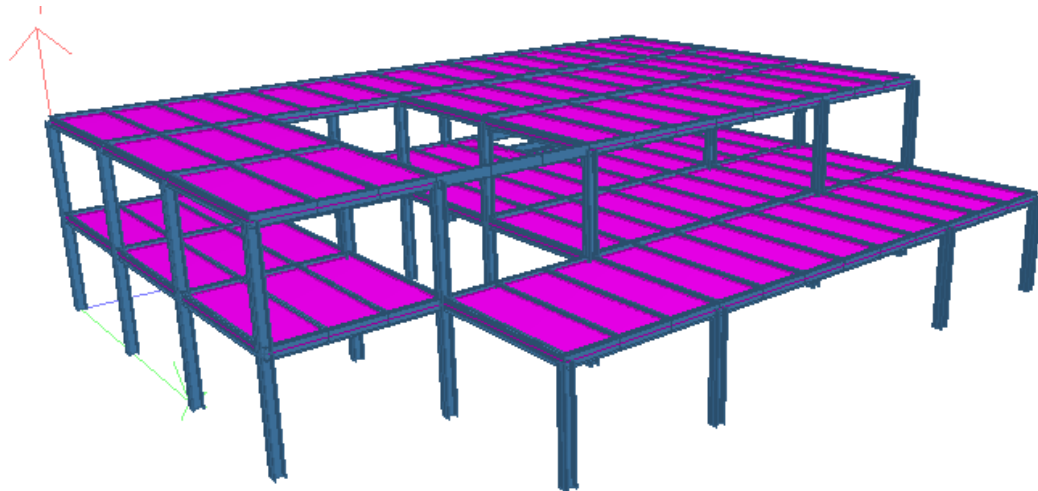
3 MODELO MATEMATICO.

Para el diseño de los elementos estructurales, se utilizara el programa de cómputo correspondiente, el cual contara con las herramientas necesarias para estos fines. Se realizó un modelo matemático tridimensional idealizando columnas y traveses mediante el elemento barra.

Las cargas gravitacionales (Carga Muerta y Carga Viva) se consideraron como cargas uniformemente repartidas en las traveses de cada nivel y el peso propio de la estructura es calculado directamente por el programa de análisis al declararle el comando self weight a todos los elementos que conforman el modelo.

Para el análisis sísmico, los sistemas de piso (losas) se consideraron como diafragmas rígidos y se realizó un análisis dinámico modal-espectral tomando en cuenta las recomendaciones establecidas en las Normas Técnicas Complementarias para Diseño por Sismo del Reglamento de Construcciones para el Distrito Federal.

En la figura siguiente se muestra una vista tridimensional del modelo de análisis descrito en párrafos anteriores.



Isométrico de Modelo de CESI.

4 REGLAMENTOS Y MANUALES EMPLEADOS.

Para el diseño del análisis y diseño estructural en cuestión, se han tomado en cuenta los reglamentos nacionales e internacionales mencionados a continuación:

- Reglamento de Desarrollo Urbano, Zonificación, Uso de Suelo y Construcción del Municipio de Torreón, Coahuila de Zaragoza.
- Reglamento de Construcciones del Distrito Federal. (R.C.D.F.), Edición 2004
- Normas Técnicas Complementarias para el Diseño por Sismo. (N.T.C.D.S.)
- Normas Técnicas Complementarias sobre Criterios y Acciones para el Diseño Estructural de las Edificaciones. (N.T.C.C.A.D.E.E.)



- Normas Técnicas Complementarias para Diseño y Construcción de Estructuras Metálicas. (N.T.C.D.C.E.M.)
- Normas Técnicas Complementarias para Diseño y Construcción de Cimentaciones. (N.T.C.D.C.C.)
- Manual de Construcción en Acero IMCA.
- Manual de Diseño de Obras Civiles Diseño por Sismo. (M.D.O.C.D.S.)
- American Concrete Institute (ACI), Edición ACI 318-11.
- American Institute of Steel Construction. (AISC-LRFD)

5 MATERIALES.

5.1 CONCRETO.

Concreto estructural Clase I, con peso volumétrico de 2400 kg/cm^3 y resistencia a la compresión a los 28 días de $f'c = 250 \text{ kg/cm}^2$. Módulo de $E = 242487.1 \text{ kg/cm}^2$. Con agregados pétreos de un máximo de 2.0 cm de diámetro.

5.2 ACERO DE REFUERZO Y ANCLAS.

El acero de refuerzo, con esfuerzo de fluencia $f_y = 4200 \text{ kg/cm}^2$. Módulo de elasticidad $E = 2040000 \text{ kg/cm}^2$. Conforme a la designación A615 grado 60 de la ASTM.

Anclas ASTM A-36.

5.3 ACERO ESTRUCTURAL.

Acero estructural ASTM A-50 con esfuerzo de fluencia $f_y = 3515 \text{ kg/cm}^2$ y módulo de elasticidad $E = 2040000 \text{ kg/cm}^2$.

5.4 TORNILLOS

Tornillos estructurales deberán ser A-325 de alta resistencia.

5.5 SOLDADURA.

Electrodo serie E-70XX con resistencia a la tracción de 70 KSI (49.2 kg/mm^2). Se aplicaran criterios de acuerdo a lo establecido en AWS D1.1.



6 ANÁLISIS DE CARGAS.

Se evaluarán las cargas de acuerdo a lo establecido en el R.C.D.F. de acuerdo a su ocupación o actividad de la edificación, en este caso la estructura será destinada para oficinas por lo que se tienen las siguientes cargas:

De acuerdo al R.C.D.F. en su Art. 186 se deben considerar tres categorías de acciones de acuerdo con la duración en que obran la estructura con intensidad máxima, siendo estas:

- Acciones Permanentes.
- Acciones Variables.
- Acciones Accidentales.

6.1 ACCIONES PERMANENTES.

6.1.1 CARGAS MUERTAS.

De acuerdo al Artículo 160 del Reglamento de Construcciones del Distrito Federal (R.C.D.F.) se considerarán como Carga Muerta los pesos de todos los elementos estructurales, de los acabados y de todos los elementos que ocupan una posición permanente y tienen un peso que no cambia sustancialmente con el tiempo.

Entrepiso

- Losacero 229 kg/m²
- Muros divisorios 60 kg/m²
- Acabado 40 kg/m²
- Instalaciones 30 kg/m²
- Sobrecarga 40 kg/m²

TOTAL = 399 kg/m²

Azotea

- Losacero 229 kg/m²
- Relleno 90 kg/m²
- Equipos 80 kg/m²
- Instalaciones 30 kg/m²
- Sobrecarga 40 kg/m²

TOTAL = 469 kg/m²



6.2 ACCIONES VARIABLES.

6.2.1 CARGAS VIVAS.

De acuerdo al Artículo 161 Reglamento de Construcciones del Distrito Federal (R.C.D.F.) se considerarán como Cargas Vivas las fuerzas que se producen por el uso y ocupación de las edificaciones y que no tienen carácter permanente. A menos que se justifiquen racionalmente otros valores, estas cargas se tomarán iguales a las especificadas en las Normas Técnicas Complementarias sobre Criterios y Acciones para el Diseño Estructural de las Edificaciones (N.T.C.C.A.D.E.E).

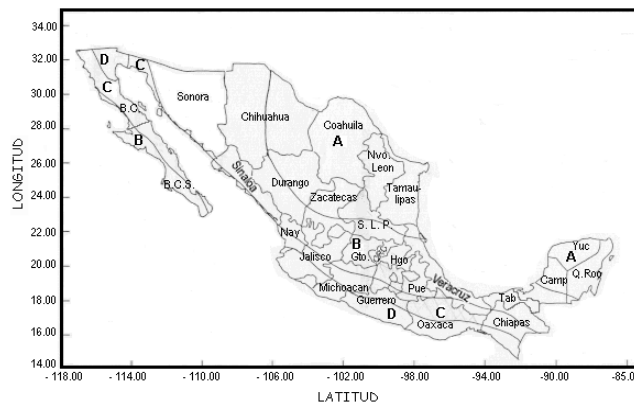
Destino de piso o cubierta.	Carga Viva Máxima (W_m)	Carga Viva Instantánea (W_a)
	Kg/m ²	Kg/m ²
Oficinas	250	180
Azotea pendiente < 5%	100	70

7 ANALISIS SISMICO.

Se realizó un análisis dinámico modal en base a los parámetros obtenidos y proporcionados por el Estudio de Mecánica de Suelos, con tres grados de libertad en cada nivel con el objeto de tomar en cuenta los desplazamientos horizontales en dos direcciones ortogonales.

Los parámetros del análisis es el siguiente:

- Clasificación de la estructura según su uso Grupo B
- Zona Sísmica A
- Clasificación del suelo Tipo II
- Coeficiente sísmico $c = 0.24$
- Factor de comportamiento sísmico $Q = 2$



Regionalización Sísmica de la Republica Mexicana.



Espectro de diseño:

$$a = a_0 + (c - a_0)(T/T_a) \quad \text{para } T \text{ menor que } T_a$$

$$a = c \quad \text{para } T \text{ entre } T_a \text{ y } T_b$$

$$a = qc \quad \text{para } T \text{ mayor que } T_b$$

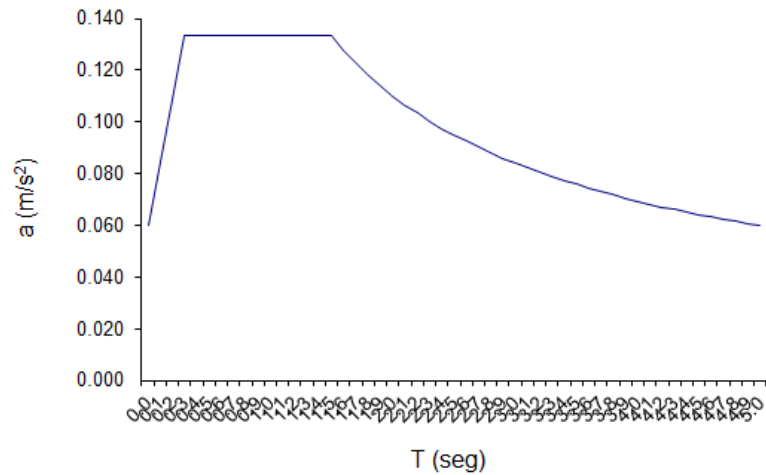
$$q = (T_b/T)^r$$

$$a_0 = 0.06$$

$$T_a = 0.30 \text{ seg} ; T_b = 1.5 \text{ seg}$$

$$r = 2/3$$

Espectro de diseño





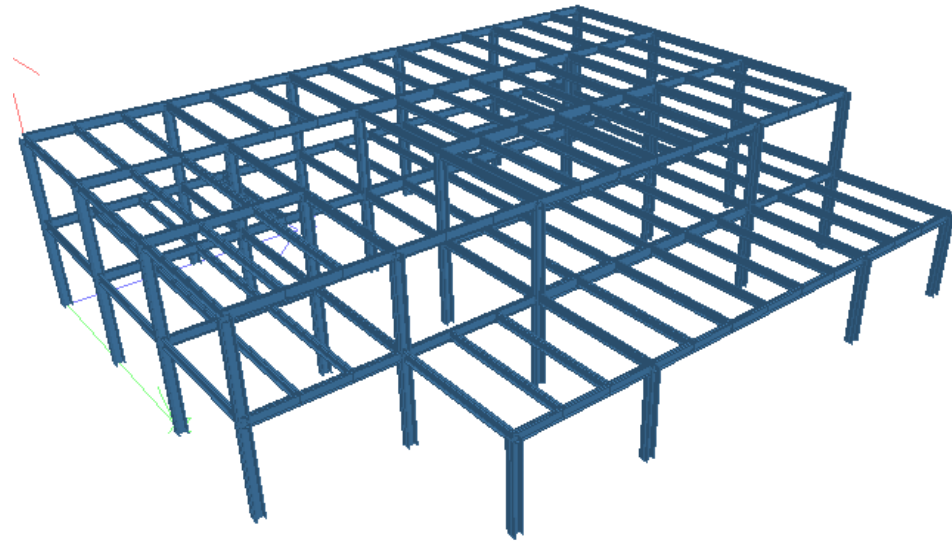
8 COMBINACIONES DE ACCIONES.

La seguridad de una estructura deberá verificarse para el combinado de todas las acciones que tengan una probabilidad no despreciable de ocurrir simultáneamente.

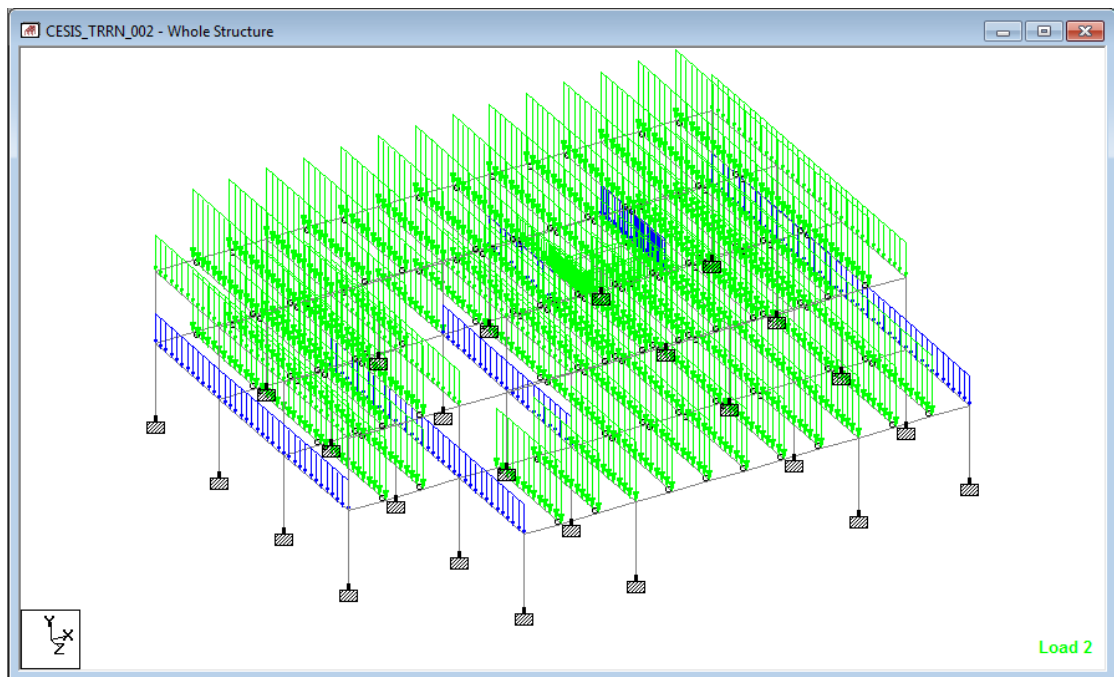
COMBINACIONES DE SERVICIO
1.0 (PP+CM + CV Max.)
1.0 (PP+CM + CV Inst. + Sx +0.3 Sz)
1.0 (PP+CM + CV Inst. + Sx - 0.3 Sz)
1.0 (PP+CM + CV Inst. - Sx + 0.3 Sz)
1.0 (PP+CM + CV Inst. - Sx - 0.3 Sz)
1.0 (PP+CM + CV Inst. + 0.3 Sx + Sz)
1.0 (PP+CM + CV Inst. + 0.3 Sx - Sz)
1.0 (PP+CM + CV Inst. - 0.3 Sx + Sz)
1.0 (PP+CM + CV Inst. - 0.3 Sx - Sz)
COMBINACIONES DE DISEÑO
1.4 (PP+CM + CV Max.)
1.1 (PP+CM + CV Inst. + Sx +0.3 Sz)
1.1 (PP+CM + CV Inst. + Sx - 0.3 Sz)
1.1 (PP+CM + CV Inst. - Sx + 0.3 Sz)
1.1 (PP+CM + CV Inst. - Sx - 0.3 Sz)
1.1 (PP+CM + CV Inst. + 0.3 Sx + Sz)
1.1 (PP+CM + CV Inst. + 0.3 Sx - Sz)
1.1 (PP+CM + CV Inst. - 0.3 Sx + Sz)
1.1 (PP+CM + CV Inst. - 0.3 Sx - Sz)



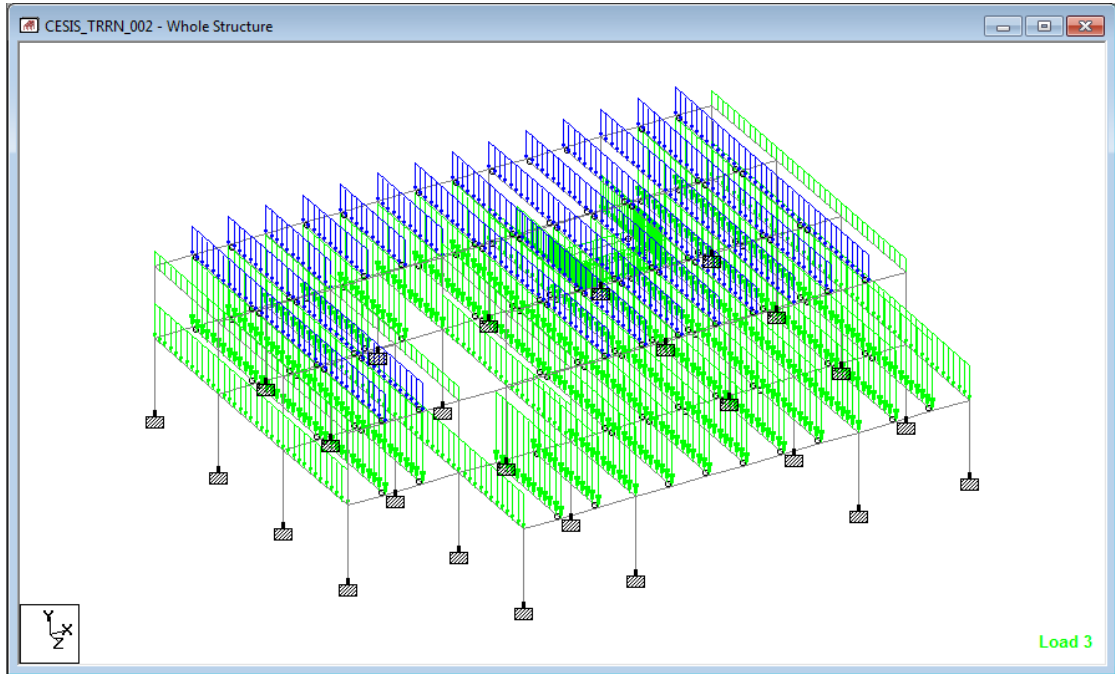
9 ANALISIS ESTRUCTURAL.



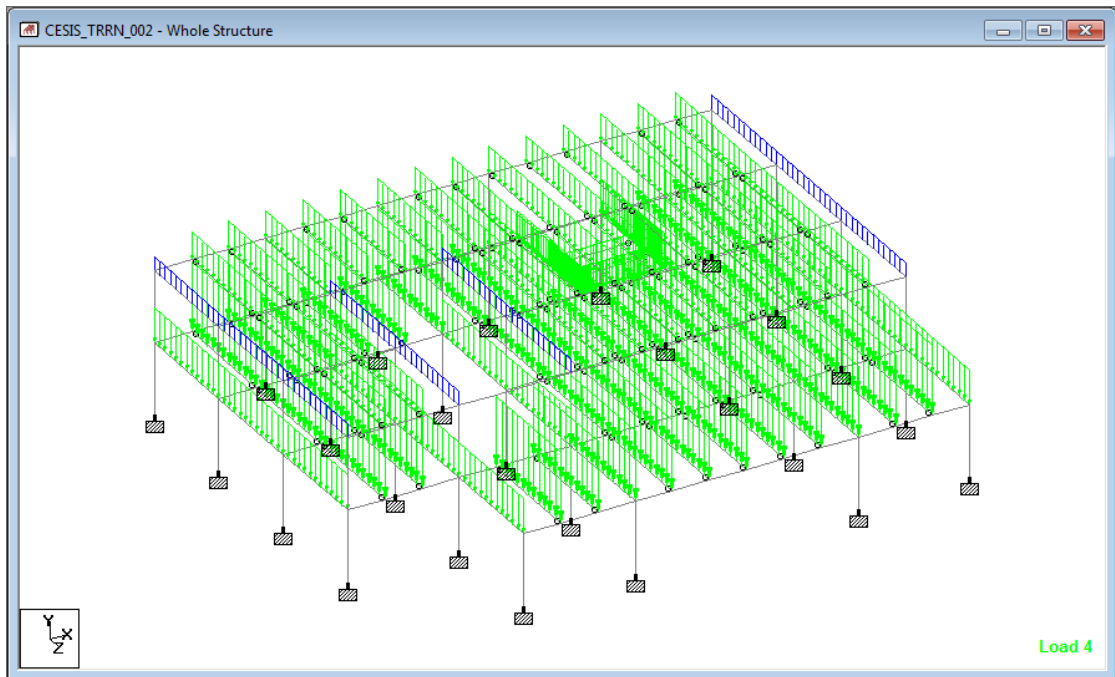
Estructuración de CESI.



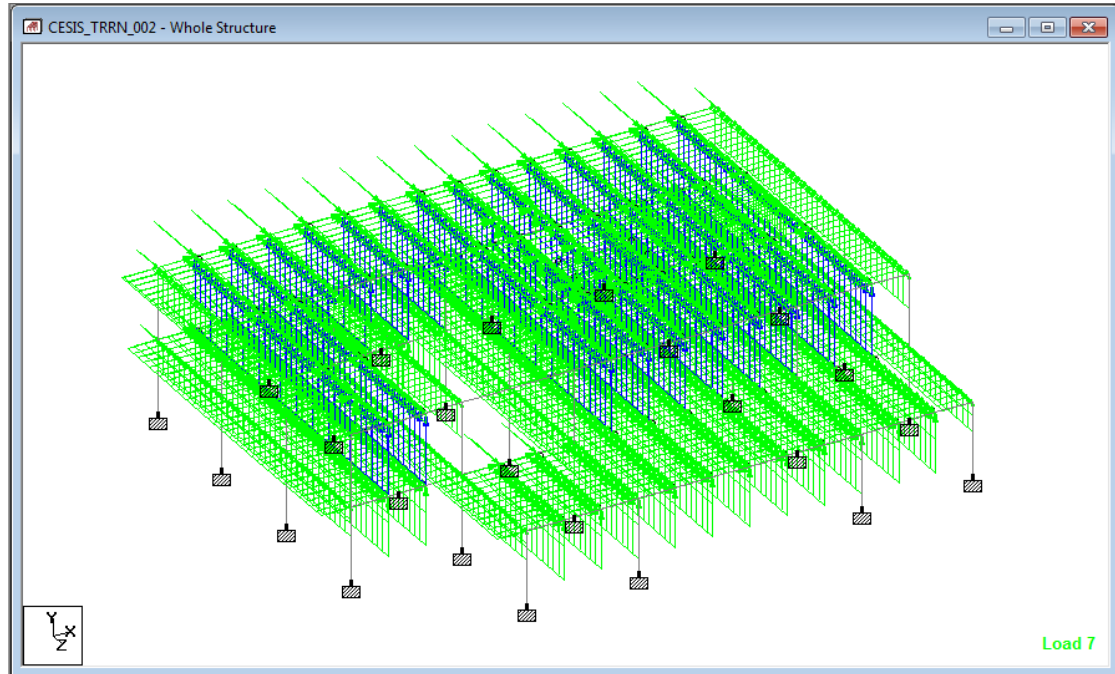
Carga Muerta.



Carga Viva Máxima.



Carga Viva Instantánea.



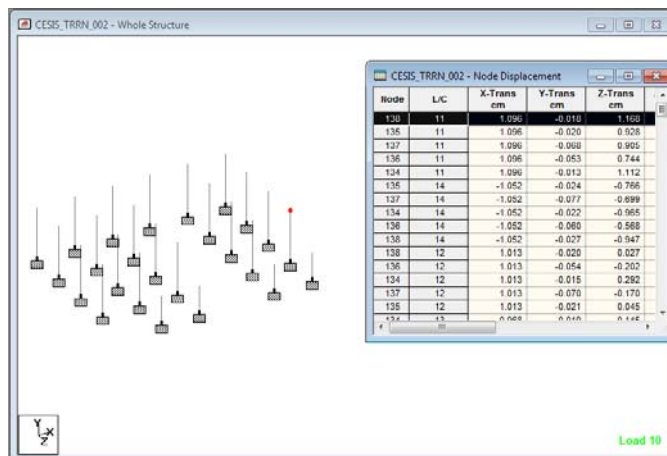
Carga de Sismo.

10 REVISION DE DESPLAZAMIENTOS.

Se revisará que los desplazamientos laterales cumplan con las limitaciones que marque el R.C.D.F. 2004 ($\Delta < 0.012H$).

Los elementos no estructurales que formen parte de la estructura deberán desligarse adecuadamente.

Dirección X

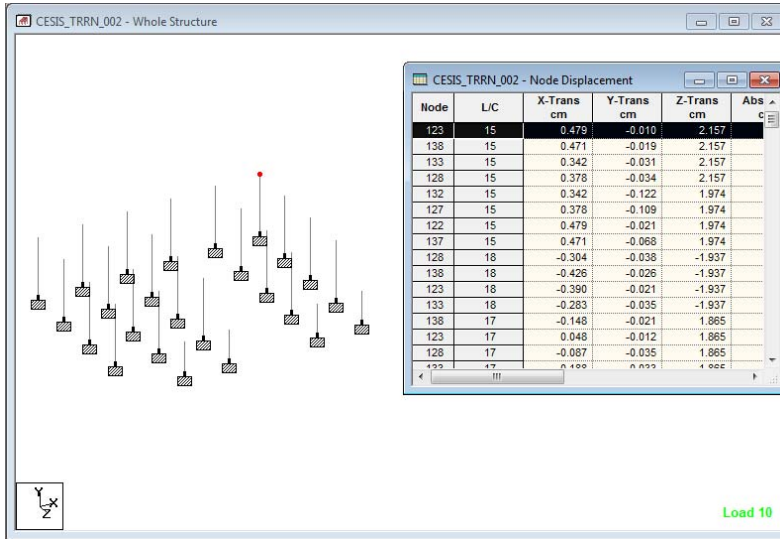


$$\Delta_{adm} = 0.012 \times h = 0.012 \times 780 \text{ cm} = \mathbf{9.36 \text{ cm}}$$

$$\Delta_{real} = 1.09 \text{ cm} \times 2 = \mathbf{2.19 \text{ cm}} < \Delta_{adm} ; \mathbf{O.k.}$$



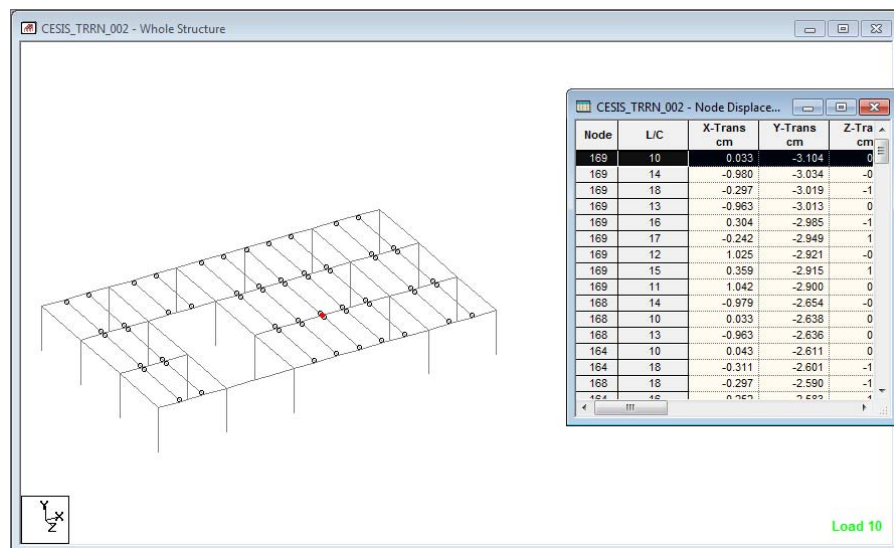
Dirección Z



$\Delta \text{ adm} = 0.012 \times h = 0.012 \times 780 \text{ cm} = \mathbf{9.36 \text{ cm}}$

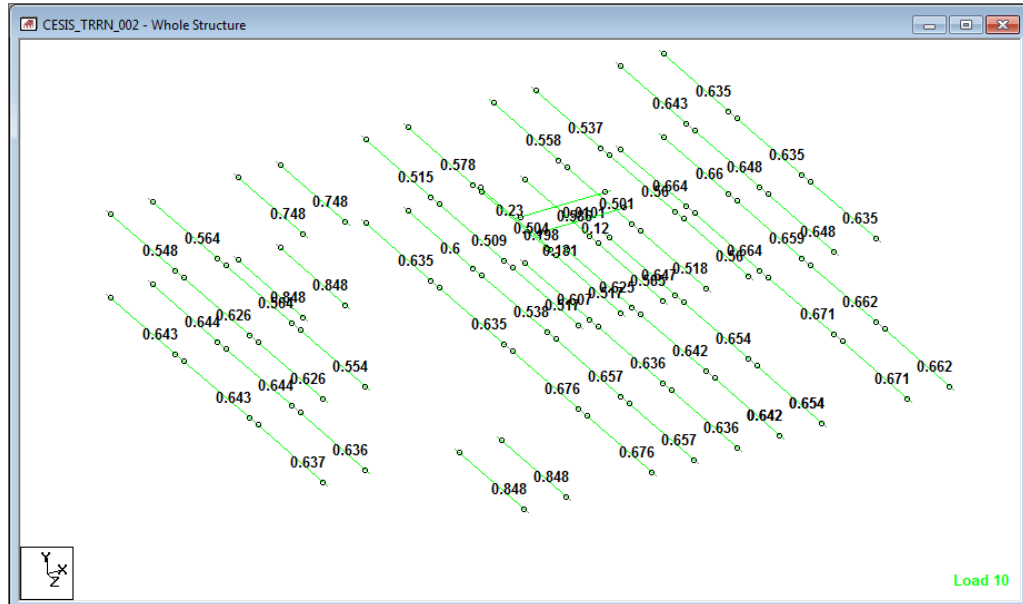
$\Delta \text{ real} = 2.15 \text{ cm} \times 2 = \mathbf{4.31 \text{ cm}} < \Delta \text{ adm} ; \mathbf{O.k.}$

Los desplazamientos verticales (deflexiones en vigas) también deberán cumplir con el mismo reglamento y con las normas que rijan en los casos especiales que así se requieran.



$\Delta \text{ adm} = (L / 240) + 0.5 \text{ cm} = (1200 / 240) + 0.5 \text{ cm} = \mathbf{5.5 \text{ cm}}$

$\Delta = \mathbf{3.10 \text{ cm}} < \Delta \text{ adm} ; \mathbf{O.k.}$



Esfuerzos en vigas secundarias.

12 DISEÑO DE ELEMENTOS ESTRUCTURALES.

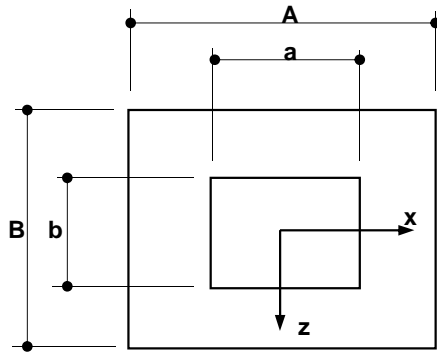
Se diseñarán los elementos de la estructura de acuerdo con los lineamientos vigentes del R.C.D.F., así como las N.TC.-2004 con las combinaciones de carga aplicando los efectos de sismo,

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

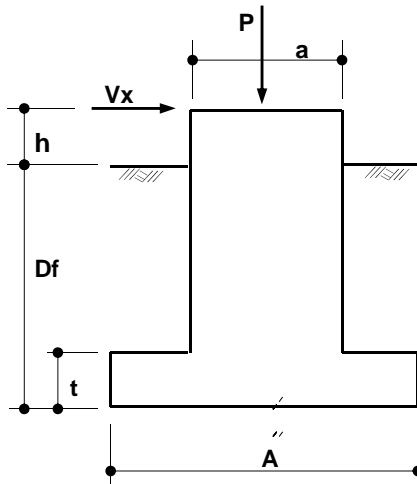
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GEOMETRIA DE LA ZAPATA



PLANTA DE CIMENTACIÓN

Df = 2.40 m
h = 0.20 m
t = 0.35 m
A = 3.60 m
B = 3.60 m
a = 0.65 m
b = 0.65 m
q ad = 10.85 ton/m²
γs = 1.46 ton/m³



ELEVACION DE CIMENTACIÓN

A = 12.96 m²
Sx = 7.78 m³
Sz = 7.78 m³

REFERENCIAS

COMBINACIONES DE CARGA

REACCIONES

Nodo 27 Comb : 11

Cargas sin Factorizar

Revisión esfuerzos en el terreno

P = 75.01 ton
Mx = 2.79 ton·m
Mz = 13.21 ton·m
Fx = 0.93 ton
Fz = 1.18 ton

Nodo 27 Comb : 21

Cargas Factorizadas

Diseño estructural de zapata

P = 82.51 ton
Mx = 3.06 ton·m
Mz = 14.53 ton·m
Fx = 1.03 ton
Fz = 1.30 ton

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

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REFERENCIAS

ACCIONES

Revisión esfuerzos en el terreno

P = -75.01 ton
Mx = -2.79 ton·m
Mz = -13.21 ton·m
Fx = -0.93 ton
Fz = -1.18 ton

Diseño estructural de zapata

P = -82.51 ton
Mx = -3.06 ton·m
Mz = -14.53 ton·m
Fx = -1.03 ton
Fz = -1.30 ton

$M_x = (F_z \cdot (D_f + h)) + M_x$
 $M_z = (-F_x \cdot (D_f + h)) + M_z$

ELEMENTOS MECÁNICOS

Revisión esfuerzos en el terreno

P = 75.01 ton
Mx = 5.85 ton·m
Mz = 10.78 ton·m
Fx = 0.93 ton
Fz = 1.18 ton

Diseño estructural de zapata

P = 82.51 ton
Mx = 6.43 ton·m
Mz = 11.86 ton·m
Fx = 1.03 ton
Fz = 1.30 ton

MOMENTO RESISTENTE

ELEMENTO	PESO (para rev. de esfuerzos)	PESO (para diseño de zapata)
DADO	2.28 ton	2.28 ton
ZAPATA	10.89 ton	10.89 ton
RELLENO	37.52 ton	37.52 ton
AXIAL (P)	75.01 ton	82.51 ton
TOTAL=	125.70 ton	133.20 ton

Mrx = 226.26 ton·m
Mrz = 226.26 ton·m

REVISIÓN CONTRA VOLTEO

En eje X
Mrx = 226.26 ton·m
Mx = 5.85 ton·m
Fvol ≤ (Mrx / Mx)
1.5 < 38.71 **Correcto**

En eje Z
Mrz = 226.26 ton·m
Mz = 10.78 ton·m
Fvol ≤ (Mrz / Mz)
1.5 < 20.99 **Correcto**

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

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REFERENCIAS

TIPO DE CASO PARA EL DIAGRAMA DE PRESIONES

ex=Mz/Peso= 0.09 m
ez=Mx/Peso= 0.05 m
F = B/2-ez = 1.75 m
E = A/2 -ex = 1.71 m
A = 3.60 m
B = 3.60 m
E/A = 0.48 m
F/B = 0.49 m

CASO TIPO : I
CON LOS VALORES OBTENIDOS DE E/A Y F/B SE ENTRA A LA GRAFICA 8-19A(d) Y DEPENDIENDO DEL AREA DONDE SE INTERSECTEN SERA EL TIPO DE CASO

CASO I

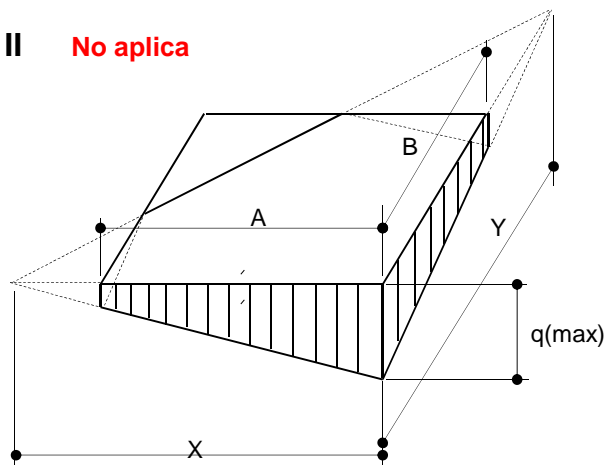
$$q_{rev} = \frac{\text{Peso}}{AB} (1 + \frac{6ez}{B}) = 10.45 < 10.85 \text{ ton/m}^2$$

q rev < q ad Correcto

Esfuerzo factorizado para Diseño

$$q_{dis} = \frac{\text{Peso}}{AB} (1 + \frac{6ez}{B}) = 11.07$$

CASO II No aplica



SE UTILIZA EL METODO DE PRUEBA Y ERROR, EN EL CUAL SE UTILIZA PRIMERAMENTE LA GRAFICA SUPERIOR ENTRANDO CON LOS VALORES DE A/X=1 Y F/B (YA OBTENIDO), ENCONTRANDO B/Y; AHORA EN LA GRAFICA DE ABAJO SE ENTRA CON ESE VALOR OBTENIDO DE B/Y Y EL VALOR DE E/A (YA OBTENIDO), ENCONTRANDO A/X; REGRESANDO A LA GRAFICA SUPERIOR SE ENTRA AHORA CON EL VALOR OBTENIDO DE A/X Y DE NUEVO EL VALOR DE F/B, SE OBTIENE B/Y, POR ULTIMO DE NUEVO EN LA GRAFICA DE ABAJO CON B/Y Y E/A ENCONTRAMOS A/X

INICIANDO CON (A/X)₁ = F/B = (B/Y)₁ = SE OBTIENE
AHORA PARA (B/Y)₁ = E/A = (A/X)₂ = SE OBTIENE

EL TIPO DE CASO SE OBTIENE DE LA FIGURA 8-19A (d) DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM

DIAGRAMA DE PRESIONES PARA CASO II FIG. 8-19B DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM

UTILIZANDO EL METODO Y GRAFICA DE LA FIG. 8-19A DEL LIBRO FOUNDATIONS OF STRUCTURES DE CLARENCE W. DUNHAM, SE OBTUVIERON LOS VALORES DE X, Y

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

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REFERENCIAS

AHORA PARA $(A/X)^2 =$ $F/B =$ $(B/Y)^2 =$ SE OBTIENE

AHORA PARA $(B/Y)^2 =$ $E/A =$ $(A/X)^3 =$ SE OBTIENE

X =
Y =

$q_{rev} = 6 \cdot P / ((XY(1-(1-B/Y)^3)-(1-(A/X)^3)) =$ $q_{rev} > q_{ad}$ ton/m²

Esfuerzo factorizado para Diseño
 $q_{dis} = 6 \cdot P / ((XY(1-(1-B/Y)^3)-(1-(A/X)^3)) =$

CASO III No aplica

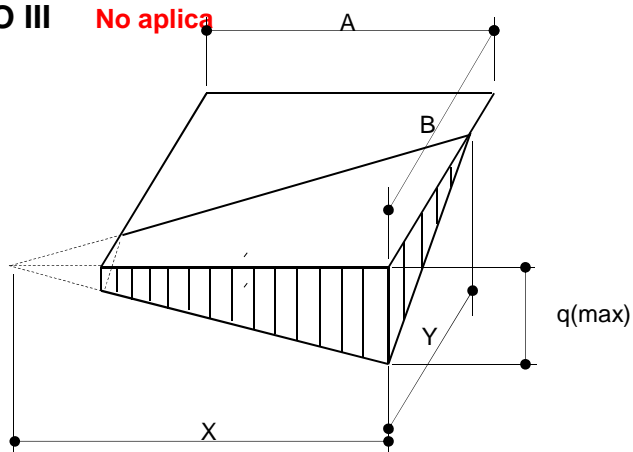


DIAGRAMA DE PRESIONES PARA CASO III FIG. 8-19B DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM

SE UTILIZA EL METODO DE PRUEBA Y ERROR, EN EL CUAL SE UTILIZA PRIMERAMENTE LA GRAFICA SUPERIOR ENTRANDO CON LOS VALORES DE A/X=1 Y F/B (YA OBTENIDO), ENCONTRANDO B/Y; AHORA EN LA GRAFICA DE ABAJO SE ENTRA CON ESE VALOR OBTENIDO DE B/Y Y EL VALOR DE E/A (YA OBTENIDO), ENCONTRANDO A/X

UTILIZANDO EL METODO Y GRAFICA DE LA FIG. 8-19A DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM, SE OBTUVIERON LOS VALORES DE X, Y

INICIANDO CON $(A/X)^1 =$ $F/B =$ $(B/Y)^1 =$ SE OBTIENE

AHORA PARA $(B/Y)^1 =$ $E/A =$ $(A/X)^2 =$ SE OBTIENE

X =

$$\frac{Y}{X} = \frac{3 \times F}{X - E} \quad Y = \frac{3 \times X \times X}{X - E} \quad Y =$$

$q_{rev} = 6 \cdot P / ((XY(1-(1-(A/X)^3)) =$ $q_{rev} > q_{ad}$ ton/m²

Esfuerzo factorizado para Diseño
 $q_{dis} = 6 \cdot P / ((XY(1-(1-(A/X)^3)) =$

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

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REFERENCIAS

PRESIÓN DE CONTACTO CON CARGAS FACTORIZADAS

q dis max = 11.07 ton/m²

DISEÑO DE LA ZAPATA

ω1 = PESO DE LA LOSA DE LA ZAPATA = 0.84 ton/m²
 ω2 = PESO DEL TERRENO SOBRE LA LOSA = 2.99 ton/m²
 ω = PRESION MAXIMA DE DISEÑO = 7.24 ton/m²
 L = LONGITUD DEL VOLADO DE LA ZAPATA = 1.48 m
 Mu = MOMENTO ULTIMO DE DISEÑO = ωL²/2 = 7.88 ton·m
 Vu = CORTANTE ULTIMO DE DISEÑO = ωl 10.68 ton

$$\rho = \frac{0.85f'c}{fy} \left(1 - \sqrt{1 - \frac{2Rn}{0.85f'c}} \right) \quad Rn = \frac{Mu}{\phi b d^2}$$

r = RECUBRIMIENTO DEL ACERO DE REFUERZO = 5 cm
 d = PERALTE EFECTIVO DE LA LOSA = 30 cm
 b = ANCHO DEL FRANJA DE LOSA = 100 cm
 φ = FACTOR DE REDUCCION DE RESIST. A LA FLEXION = 0.90
 f'c = RESISTENCIA A LA COMPRESION DEL CONCRETO = 250 kg/cm²
 fy = LIMITE DE FLUENCIA DELACERO DE REFUERZO = 4200 kg/cm²
 as = AREA DE UNA VARILA DEL No. 6 = 2.84 cm²
 Rn = 9.72522
 PORCENTAJE DE ACERO DE REFUERZO = 0.00237 %
 14.5/fy (CAPITULO 10.5 DEL ACI-318) = 0.00345 %
 RIGE = 0.00345
 As(min) = ACERO DE REFUERZO MINIMO POR FLEXION = 10.36 cm²/m
 VARILLAS 6 @ (ESPACIAMIENTO DE VARILLAS) = 27.42 cm
 SE USARA VARILLA No. 6 @ 25 cm

REVISIÓN POR CORTANTE COMO VIGA ANCHA

SE DEBE CUMPLIR LO SIGUIENTE:

Vud >= f Vn
 Vn = Vc + Vs =
 Vs = 0 (NO SE CONSIDERA REFUERZO POR CORTANTE) 0 ton
 φ = FACTOR DE REDUCCION DE RESIST. AL CORTANTE = 0.85
 Vc = RES. NOMINAL AL CORT. DEL CONC. = 0.55(f'c)^{0.5}(bwd) = 26.09 ton
 φVc = 22.18 ton
 Vu = 10.68 ton
 φVc > Vu **Correcto**

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : **Z-2**

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REVISIÓN POR PENETRACIÓN

Id = LADO DEL DADO (a) = 0.65 m
Id = LADO DEL DADO (b) = 0.65 m
bo = PERIMETRO CRITICO DE FALLA = PERIM. DEL DADO+4D = 3.80 m
Vc = RESIS. NOMINAL AL CORT. DEL CONC. = $1.1(f'c)^{0.5}(bod)$ = 198 ton
Wp = CARGA MAXIMA DE PENETRACION EN LA LOSA = 108 ton
Vc > Wp **Correcto**

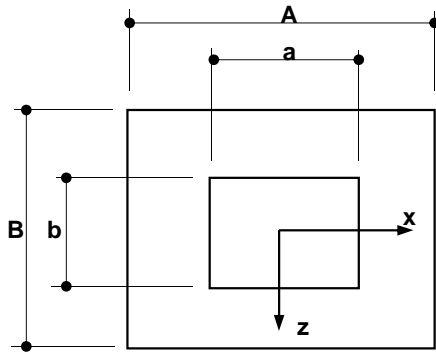
REFERENCIAS

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

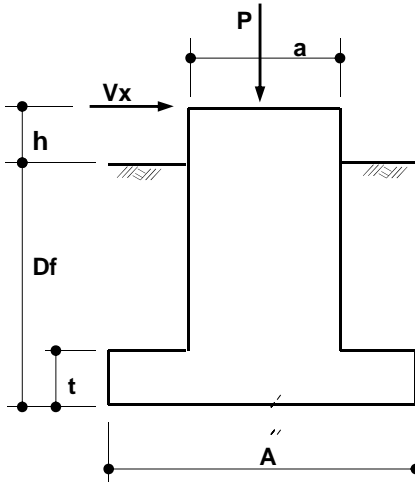
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GEOMETRIA DE LA ZAPATA



PLANTA DE CIMENTACIÓN

Df =	2.40	m
h =	0.20	m
t =	0.30	m
A =	2.80	m
B =	2.80	m
a =	0.65	m
b =	0.65	m
q ad =	10.85	ton/m ²
γs =	1.46	ton/m ³



ELEVACION DE CIMENTACIÓN

A =	7.84	m ²
Sx =	3.66	m ³
Sz =	3.66	m ³

REFERENCIAS

COMBINACIONES DE CARGA

REACCIONES

Nodo **13** Comb : **11**

Cargas sin Factorizar

Revisión esfuerzos en el terreno

P =	34.03	ton
Mx =	2.47	ton·m
Mz =	9.04	ton·m
Fx =	2.09	ton
Fz =	1.01	ton

Nodo **26** Comb : **21**

Cargas Factorizadas

Diseño estructural de zapata

P =	37.43	ton
Mx =	2.72	ton·m
Mz =	9.94	ton·m
Fx =	2.30	ton
Fz =	1.11	ton

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
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ACCIONES

Revisión esfuerzos en el terreno

P = **-34.03** ton
Mx = **-2.47** ton·m
Mz = **-9.04** ton·m
Fx = **-2.09** ton
Fz = **-1.01** ton

Diseño estructural de zapata

P = **-37.43** ton
Mx = **-2.72** ton·m
Mz = **-9.94** ton·m
Fx = **-2.30** ton
Fz = **-1.11** ton

$M_x = (F_z \cdot (D_f + h)) + M_x$
 $M_z = (-F_x \cdot (D_f + h)) + M_z$

ELEMENTOS MECÁNICOS

Revisión esfuerzos en el terreno

P = **34.03** ton
Mx = **5.10** ton·m
Mz = **3.61** ton·m
Fx = **2.09** ton
Fz = **1.01** ton

Diseño estructural de zapata

P = **37.43** ton
Mx = **5.61** ton·m
Mz = **3.96** ton·m
Fx = **2.30** ton
Fz = **1.11** ton

MOMENTO RESISTENTE

ELEMENTO	PESO (para rev. de esfuerzos)	PESO (para diseño de zapata)
DADO	2.33 ton	2.33 ton
ZAPATA	5.64 ton	5.64 ton
RELLENO	22.74 ton	22.74 ton
AXIAL (P)	34.03 ton	37.43 ton
TOTAL=	64.75 ton	68.15 ton

Mrx = **90.65** ton·m
Mrz = **90.65** ton·m

REVISIÓN CONTRA VOLTEO

En eje X
Mrx = **90.65** ton·m
Mx = **5.10** ton·m
Fvol ≤ (Mrx / Mx)
1.5 < **17.79** **Correcto**

En eje Z
Mrz = **90.65** ton·m
Mz = **3.61** ton·m
Fvol ≤ (Mrz / Mz)
1.5 < **25.14** **Correcto**

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

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TIPO DE CASO PARA EL DIAGRAMA DE PRESIONES

ex=Mz/Peso= 0.06 m
ez=Mx/Peso= 0.08 m
F = B/2- ez = 1.32 m
E = A/2 -ex = 1.34 m
A = 2.80 m
B = 2.80 m
E/A = 0.48 m
F/B = 0.47 m

CASO TIPO : I
CON LOS VALORES OBTENIDOS DE E/A Y F/B SE ENTRA A LA GRAFICA 8-19A(d) Y DEPENDIENDO DEL AREA DONDE SE INTERSECTEN SERA EL TIPO DE CASO

CASO I

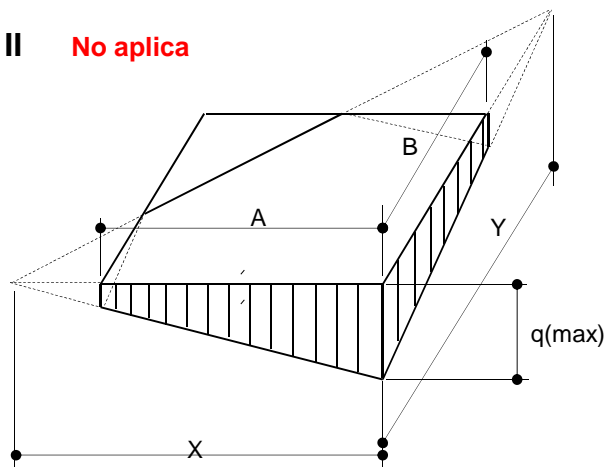
$$q_{rev} = \frac{\text{Peso}}{AB} (1 + \frac{6ez}{B}) = 9.65 < 10.85 \text{ ton/m}^2$$

q rev < q ad Correcto

Esfuerzo factorizado para Diseño

$$q_{dis} = \frac{\text{Peso}}{AB} (1 + \frac{6ez}{B}) = 10.16$$

CASO II No aplica



SE UTILIZA EL METODO DE PRUEBA Y ERROR, EN EL CUAL SE UTILIZA PRIMERAMENTE LA GRAFICA SUPERIOR ENTRANDO CON LOS VALORES DE A/X=1 Y F/B (YA OBTENIDO), ENCONTRANDO B/Y; AHORA EN LA GRAFICA DE ABAJO SE ENTRA CON ESE VALOR OBTENIDO DE B/Y Y EL VALOR DE E/A (YA OBTENIDO), ENCONTRANDO A/X; REGRESANDO A LA GRAFICA SUPERIOR SE ENTRA AHORA CON EL VALOR OBTENIDO DE A/X Y DE NUEVO EL VALOR DE F/B, SE OBTIENE B/Y, POR ULTIMO DE NUEVO EN LA GRAFICA DE ABAJO CON B/Y Y E/A ENCONTRAMOS A/X

INICIANDO CON (A/X)₁ = F/B = (B/Y)₁ = SE OBTIENE
AHORA PARA (B/Y)₁ = E/A = (A/X)₂ = SE OBTIENE

EL TIPO DE CASO SE OBTIENE DE LA FIGURA 8-19A (d) DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM

DIAGRAMA DE PRESIONES PARA CASO II FIG. 8-19B DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM

UTILIZANDO EL METODO Y GRAFICA DE LA FIG. 8-19A DEL LIBRO FOUNDATIONS OF STRUCTURES DE CLARENCE W. DUNHAM, SE OBTUVIERON LOS VALORES DE X, Y

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AHORA PARA $(A/X)^2 =$ $F/B =$ $(B/Y)^2 =$ SE OBTIENE

AHORA PARA $(B/Y)^2 =$ $E/A =$ $(A/X)^3 =$ SE OBTIENE

X =
Y =

$q_{rev} = 6 \cdot P / ((XY(1-(1-B/Y)^3)-(1-(A/X)^3)) =$ $q_{rev} > q_{ad}$ ton/m²

Esfuerzo factorizado para Diseño
 $q_{dis} = 6 \cdot P / ((XY(1-(1-B/Y)^3)-(1-(A/X)^3)) =$

CASO III

No aplica

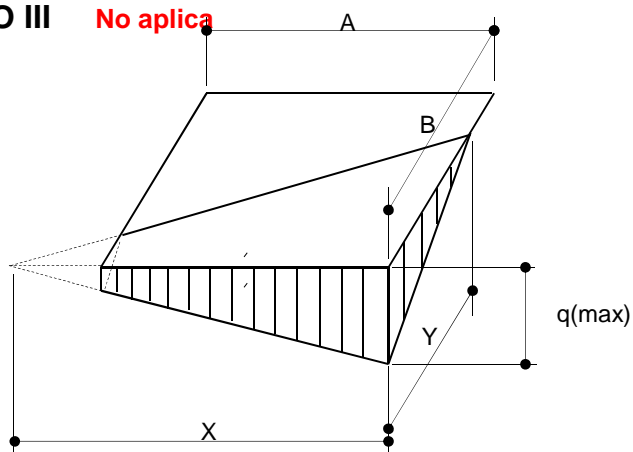


DIAGRAMA DE PRESIONES PARA CASO III FIG. 8-19B DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM

SE UTILIZA EL METODO DE PRUEBA Y ERROR, EN EL CUAL SE UTILIZA PRIMERAMENTE LA GRAFICA SUPERIOR ENTRANDO CON LOS VALORES DE A/X=1 Y F/B (YA OBTENIDO), ENCONTRANDO B/Y; AHORA EN LA GRAFICA DE ABAJO SE ENTRA CON ESE VALOR OBTENIDO DE B/Y Y EL VALOR DE E/A (YA OBTENIDO), ENCONTRANDO A/X

UTILIZANDO EL METODO Y GRAFICA DE LA FIG. 8-19A DEL LIBRO "FOUNDATIONS OF STRUCTURES" DE CLARENCE W. DUNHAM, SE OBTUVIERON LOS VALORES DE X, Y

INICIANDO CON $(A/X)^1 =$ $F/B =$ $(B/Y)^1 =$ SE OBTIENE

AHORA PARA $(B/Y)^1 =$ $E/A =$ $(A/X)^2 =$ SE OBTIENE

X =

$$\frac{Y}{X} = \frac{3 \times F}{X - E}$$

$$Y = \frac{3 \times F \times X}{X - E}$$

Y =

$q_{rev} = 6 \cdot P / ((XY(1-(1-(A/X)^3)) =$ $q_{rev} > q_{ad}$ ton/m²

Esfuerzo factorizado para Diseño
 $q_{dis} = 6 \cdot P / ((XY(1-(1-(A/X)^3)) =$

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : Z-2

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PRESIÓN DE CONTACTO CON CARGAS FACTORIZADAS

q dis max = 10.16 ton/m²

DISEÑO DE LA ZAPATA

ω1 = PESO DE LA LOSA DE LA ZAPATA =	0.72	ton/m ²
ω2 = PESO DEL TERRENO SOBRE LA LOSA =	3.07	ton/m ²
ω = PRESION MAXIMA DE DISEÑO =	6.37	ton/m ²
L = LONGITUD DEL VOLADO DE LA ZAPATA =	1.08	m
Mu = MOMENTO ULTIMO DE DISEÑO = ωL ² /2 =	3.68	ton·m
Vu = CORTANTE ULTIMO DE DISEÑO = ωl	6.85	ton

$$\rho = \frac{0.85f'c}{fy} \left(1 - \sqrt{1 - \frac{2Rn}{0.85f'c}}\right) \quad Rn = \frac{Mu}{\phi b d^2}$$

r = RECUBRIMIENTO DEL ACERO DE REFUERZO =	5	cm
d = PERALTE EFECTIVO DE LA LOSA =	25	cm
b = ANCHO DEL FRANJA DE LOSA =	100	cm
φ = FACTOR DE REDUCCION DE RESIST. A LA FLEXION =	0.90	
f'c = RESISTENCIA A LA COMPRESION DEL CONCRETO =	250	kg/cm ²
fy = LIMITE DE FLUENCIA DELACERO DE REFUERZO =	4200	kg/cm ²
as = AREA DE UNA VARILA DEL No. 5 =	1.99	cm ²
Rn =	6.54595	
PORCENTAJE DE ACERO DE REFUERZO =	0.00158	%
14.5/fy (CAPITULO 10.5 DEL ACI-318) =	0.00345	%
RIGE =	0.00345	
As(min) = ACERO DE REFUERZO MINIMO POR FLEXION =	8.63	cm ² /m
VARILLAS 5 @ (ESPACIAMIENTO DE VARILLAS) =	23.06	cm
SE USARA VARILLA No. 5 @ 20		cm

REVISIÓN POR CORTANTE COMO VIGA ANCHA

SE DEBE CUMPLIR LO SIGUIENTE:

Vud >= f Vn		
Vn = Vc + Vs =		
Vs = 0 (NO SE CONSIDERA REFUERZO POR CORTANTE)	0	ton
φ = FACTOR DE REDUCCION DE RESIST. AL CORTANTE =	0.85	
Vc = RES. NOMINAL AL CORT. DEL CONC. =0.55(f'c) ^{0.5} (bwd) =	21.74	ton
φVc =	18.48	ton
Vu =	6.85	ton
φVc > Vu	Correcto	

DISEÑO DE ZAPATA AISLADA
MEMORIA DE CALCULO

PROYECTO : CESIS TORREON INFONAVIT
ELEMENTO : **Z-2**

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REVISIÓN POR PENETRACIÓN

Id = LADO DEL DADO (a) = 0.65 m
Id = LADO DEL DADO (b) = 0.65 m
bo = PERIMETRO CRITICO DE FALLA = PERIM. DEL DADO+4D = 3.60 m
Vc = RESIS. NOMINAL AL CORT. DEL CONC. = $1.1(f'c)^{0.5}(bod)$ = 157 ton
Wp = CARGA MAXIMA DE PENETRACION EN LA LOSA = 51 ton
Vc > Wp **Correcto**

REFERENCIAS



ANEXO 1

```

*****
*
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*          Version  20.07.11.45                  *
*          Proprietary Program of               *
*          Bentley Systems, Inc.                *
*          Date=   JAN 10, 2018                 *
*          Time=   12:52: 4                     *
*
*          USER ID: Personal                    *
*****

```

1. STAAD SPACE

INPUT FILE: C:\Users\GLR\Documents\TRABAJO\CESI INFONAVIT\TORREON\ANALISIS\CESIS_TRRN_002.STD

2. START JOB INFORMATION

3. ENGINEER DATE 21-AUG-17

4. END JOB INFORMATION

5. INPUT WIDTH 79

6. UNIT METER MTON

7. JOINT COORDINATES

- 8. 1 0 0 0; 2 0 3.9 0; 3 6 0 0; 4 6 3.9 0; 5 12 0 0; 6 12 3.9 0; 7 24 0 0
- 9. 8 24 3.9 0; 9 30 0 0; 10 30 3.9 0; 11 0 0 6; 12 0 3.9 6; 13 6 0 6; 14 6 3.9 6
- 10. 15 12 0 6; 16 12 3.9 6; 17 24 0 6; 18 24 3.9 6; 19 30 0 6; 20 30 3.9 6
- 11. 21 0 0 12; 22 0 3.9 12; 23 6 0 12; 24 6 3.9 12; 25 12 0 12; 26 12 3.9 12
- 12. 27 24 0 12; 28 24 3.9 12; 29 30 0 12; 30 30 3.9 12; 31 0 0 18; 32 0 3.9 18
- 13. 33 6 0 18; 34 6 3.9 18; 35 12 0 18; 36 12 3.9 18; 37 24 0 18; 38 24 3.9 18
- 14. 39 30 0 18; 40 30 3.9 18; 41 6 0 24; 42 6 3.9 24; 43 12 0 24; 44 12 3.9 24
- 15. 45 24 0 24; 46 24 3.9 24; 47 30 0 24; 48 30 3.9 24; 49 2 3.9 0; 50 4 3.9 0
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- 17. 57 8 3.9 0; 58 10 3.9 0; 59 8 3.9 6; 60 10 3.9 6; 61 8 3.9 18; 62 10 3.9 18
- 18. 63 8 3.9 24; 64 10 3.9 24; 65 14 3.9 0; 66 16 3.9 0; 67 18 3.9 0; 70 14 3.9 6
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- 22. 87 18 3.9 24; 88 20 3.9 24; 89 22 3.9 24; 90 26 3.9 0; 91 28 3.9 0
- 23. 92 26 3.9 6; 93 28 3.9 6; 94 26 3.9 12; 95 28 3.9 12; 96 26 3.9 18
- 24. 97 28 3.9 18; 98 26 3.9 24; 99 28 3.9 24; 108 24 3.9 3; 112 16.239 3.9 11.66
- 25. 113 18 0 0; 114 19.5 3.9 0; 115 19.5 3.9 6; 116 19.5 3.9 3; 117 24 3.9 4.5
- 26. 118 19.5 3.9 4.5; 119 0 7.8 0; 120 6 7.8 0; 121 12 7.8 0; 122 24 7.8 0
- 27. 123 30 7.8 0; 124 0 7.8 6; 125 6 7.8 6; 126 12 7.8 6; 127 24 7.8 6
- 28. 128 30 7.8 6; 129 0 7.8 12; 130 6 7.8 12; 131 12 7.8 12; 132 24 7.8 12
- 29. 133 30 7.8 12; 134 0 7.8 18; 135 6 7.8 18; 136 12 7.8 18; 137 24 7.8 18
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- 36. 174 18 7.8 18; 175 20 7.8 18; 176 22 7.8 18; 182 26 7.8 0; 183 28 7.8 0
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- 38. 189 28 7.8 18; 193 20 7.8 0; 194 22 7.8 0; 195 16.186 3.9 11.717

39. 196 15.952 7.8 8.591
40. MEMBER INCIDENCES
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67. 266 134 149; 267 135 155; 268 136 172; 269 137 188; 273 119 124; 274 124 129
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76. 331 171 132; 332 162 167; 333 163 168; 334 164 169; 335 165 170; 336 166 171
77. 337 172 173; 338 173 174; 339 174 175; 340 175 176; 341 176 137; 342 167 172
78. 343 168 173; 344 169 174; 345 170 175; 346 171 176; 357 182 184; 358 183 185
79. 359 186 187; 360 187 133; 361 184 186; 362 185 187; 363 188 189; 364 189 138
80. 365 186 188; 366 187 189; 371 183 123; 372 185 128; 373 182 183; 374 184 185
81. 376 67 161; 377 161 193; 378 164 165; 379 193 194; 381 193 165; 382 194 122
82. 383 194 166
83. DEFINE MATERIAL START
84. ISOTROPIC STEEL
85. E 2.09042E+007
86. POISSON 0.3
87. DENSITY 7.83341
88. ALPHA 1.2E-005
89. DAMP 0.03
90. TYPE STEEL
91. STRENGTH FY 25819.2 FU 41584 RY 1.5 RT 1.2
92. ISOTROPIC CONCRETE
93. E 2.21467E+006
94. POISSON 0.17

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95. DENSITY 2.40262
96. ALPHA 1E-005
97. DAMP 0.05
98. TYPE CONCRETE
99. STRENGTH FCU 2812.28
100. ISOTROPIC LOSA-CERO
101. E 2.21467E+006
102. POISSON 0.17
103. ALPHA 1E-005
104. DAMP 0.05
105. TYPE CONCRETE
106. STRENGTH FCU 2812.28
107. END DEFINE MATERIAL
108. MEMBER PROPERTY AMERICAN
109. 1 TO 24 218 231 TO 250 376 TABLE ST W14X90
110. 25 TO 30 32 33 35 37 39 62 TO 67 76 TO 81 88 89 139 140 143 144 211 TO 214 -
111. 221 223 255 TO 260 263 266 267 269 292 TO 299 306 TO 311 318 319 363 364 -
112. 371 373 377 379 382 TABLE ST W16X36
113. 43 TO 48 50 TO 61 217 228 273 TO 278 280 TO 282 284 TO 286 288 TO 289 -
114. 290 TABLE ST W16X36
115. 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 137 138 141 142 145 -
116. 146 149 150 225 TO 227 229 230 300 TO 305 314 315 324 325 332 TO 336 342 -
117. 343 TO 346 357 358 361 362 365 366 381 383 TABLE ST W14X30
118. 31 34 38 93 94 96 97 103 TO 107 113 TO 117 222 224 261 264 320 TO 323 327 -
119. 328 TO 331 378 TABLE ST W21X68
120. 36 40 TO 42 49 68 69 82 83 100 123 TO 127 147 148 262 265 268 326 337 TO 341 -
121. 359 360 372 374 TABLE ST W16X40
122. CONSTANTS
123. MATERIAL STEEL ALL
124. MEMBER RELEASE
125. 70 TO 75 84 TO 87 98 TO 100 108 TO 112 118 TO 122 128 TO 132 137 138 141 142 -
126. 145 146 149 150 225 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
127. 358 361 362 365 366 381 383 START MX
128. 70 TO 75 84 TO 87 98 TO 100 108 TO 112 118 TO 122 128 TO 132 137 138 141 142 -
129. 145 146 149 150 229 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
130. 358 361 362 365 366 381 383 END MX
131. 227 230 START MZ
132. 227 230 END MZ
133. SUPPORTS
134. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 113 FIXED
135. SLAVE ZX MASTER 195 JOINT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 -
**WARNING- JOINT NO. 112 NOT CONNECTED. OK, IF PART OF MASTER/SLAVE.
**WARNING- JOINT NO. 195 NOT CONNECTED. OK, IF PART OF MASTER/SLAVE.
**WARNING- JOINT NO. 196 NOT CONNECTED. OK, IF PART OF MASTER/SLAVE.
136. 38 40 42 44 46 48 67
137. SLAVE ZX MASTER 196 JOINT 119 TO 138 161
138. CUT OFF MODE SHAPE 20
139. LOAD 1 LOADTYPE DEAD TITLE PP
140. SELFWEIGHT Y -1
141. LOAD 2 LOADTYPE DEAD TITLE CM
142. MEMBER LOAD
143. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GY -0.4
144. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
145. 137 138 141 142 145 146 149 150 UNI GY -0.8
146. 96 97 100 224 TO 226 229 230 UNI GY -0.3
147. 273 TO 275 277 278 281 282 288 TO 290 UNI GY -0.47

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148. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
149. 358 361 362 365 366 381 383 UNI GY -0.94
150. LOAD 3 LOADTYPE LIVE TITLE CV MAX
151. MEMBER LOAD
152. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GY -0.25
153. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
154. 137 138 141 142 145 146 149 150 UNI GY -0.5
155. 96 97 100 224 TO 226 229 230 UNI GY -0.19
156. 273 TO 275 277 278 281 282 288 TO 290 UNI GY -0.1
157. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
158. 358 361 362 365 366 381 383 UNI GY -0.2
159. LOAD 4 LOADTYPE LIVE TITLE CV INST
160. MEMBER LOAD
161. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GY -0.18
162. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
163. 137 138 141 142 145 146 149 150 UNI GY -0.36
164. 96 97 100 224 TO 226 229 230 UNI GY -0.14
165. 273 TO 275 277 278 281 282 288 TO 290 UNI GY -0.07
166. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
167. 358 361 362 365 366 381 383 UNI GY -0.14
168. LOAD 5 LOADTYPE LIVE TITLE CV MEDIA
169. MEMBER LOAD
170. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GY -0.1
171. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
172. 137 138 141 142 145 146 149 150 UNI GY -0.2
173. 96 97 100 224 TO 226 229 230 UNI GY -0.075
174. 273 TO 275 277 278 281 282 288 TO 290 UNI GY -0.015
175. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
176. 358 361 362 365 366 381 383 UNI GY -0.03
177. LOAD 6 LOADTYPE LIVE TITLE EQUIPOS
178. MEMBER LOAD
179. 333 CON GY -0.5 2
180. 333 CON GY -0.5 5
181. 334 CON GY -0.5 2
182. 334 CON GY -0.5 5
183. 325 CON GY -0.4 4
184. 326 CON GY -0.6 4
185. 361 362 UNI GY -0.35 1 4
186. 335 UNI GY -0.1 1 4
187. 336 UNI GY -0.2 1 4
188. 305 CON GY -0.9 3
189. LOAD 7 LOADTYPE SEISMIC TITLE SISMO X
190. *****
191. SELFWEIGHT X 1
192. SELFWEIGHT Y 1
193. SELFWEIGHT Z 1
194. *****
195. MEMBER LOAD
196. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GX 0.4
197. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
198. 137 138 141 142 145 146 149 150 UNI GX 0.8
199. 96 97 100 224 TO 226 229 230 UNI GX 0.3
200. 273 TO 275 277 278 281 282 288 TO 290 UNI GX 0.47
201. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
202. 358 361 362 365 366 381 383 UNI GX 0.94
203. MEMBER LOAD

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204. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GY 0.4
205. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
206. 137 138 141 142 145 146 149 150 UNI GY 0.8
207. 96 97 100 224 TO 226 229 230 UNI GY 0.3
208. 273 TO 275 277 278 281 282 288 TO 290 UNI GY 0.47
209. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
210. 358 361 362 365 366 381 383 UNI GY 0.94
211. MEMBER LOAD
212. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GZ 0.4
213. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
214. 137 138 141 142 145 146 149 150 UNI GZ 0.8
215. 96 97 100 224 TO 226 229 230 UNI GZ 0.3
216. 273 TO 275 277 278 281 282 288 TO 290 UNI GZ 0.47
217. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
218. 358 361 362 365 366 381 383 UNI GZ 0.94
219. *****
220. MEMBER LOAD
221. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GX 0.18
222. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
223. 137 138 141 142 145 146 149 150 UNI GX 0.36
224. 96 97 100 224 TO 226 229 230 UNI GX 0.14
225. 273 TO 275 277 278 281 282 288 TO 290 UNI GX 0.07
226. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
227. 358 361 362 365 366 381 383 UNI GX 0.14
228. MEMBER LOAD
229. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GY 0.18
230. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
231. 137 138 141 142 145 146 149 150 UNI GY 0.36
232. 96 97 100 224 TO 226 229 230 UNI GY 0.14
233. 273 TO 275 277 278 281 282 288 TO 290 UNI GY 0.07
234. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
235. 358 361 362 365 366 381 383 UNI GY 0.14
236. MEMBER LOAD
237. 43 TO 45 47 TO 49 51 52 54 58 TO 61 100 217 228 UNI GZ 0.18
238. 46 50 53 55 TO 57 70 TO 75 84 TO 87 98 99 108 TO 112 118 TO 122 128 TO 132 -
239. 137 138 141 142 145 146 149 150 UNI GZ 0.36
240. 96 97 100 224 TO 226 229 230 UNI GZ 0.14
241. 273 TO 275 277 278 281 282 288 TO 290 UNI GZ 0.07
242. 276 280 284 TO 286 300 TO 305 314 315 324 TO 326 332 TO 336 342 TO 346 357 -
243. 358 361 362 365 366 381 383 UNI GZ 0.14
244. *****
245. MEMBER LOAD
246. 333 CON GX 0.5 2
247. 333 CON GX 0.5 5
248. 334 CON GX 0.5 2
249. 334 CON GX 0.5 5
250. 325 CON GX 0.4 4
251. 326 CON GX 0.6 4
252. 361 362 UNI GX 0.35 1 4
253. 335 UNI GX 0.1 1 4
254. 336 UNI GX 0.2 1 4
255. 305 CON GX 0.9 3
256. MEMBER LOAD
257. 333 CON GY 0.5 2
258. 333 CON GY 0.5 5
259. 334 CON GY 0.5 2

260. 334 CON GY 0.5 5
261. 325 CON GY 0.4 4
262. 326 CON GY 0.6 4
263. 361 362 UNI GY 0.35 1 4
264. 335 UNI GY 0.1 1 4
265. 336 UNI GY 0.2 1 4
266. 305 CON GY 0.9 3
267. MEMBER LOAD
268. 333 CON GZ 0.5 2
269. 333 CON GZ 0.5 5
270. 334 CON GZ 0.5 2
271. 334 CON GZ 0.5 5
272. 325 CON GZ 0.4 4
273. 326 CON GZ 0.6 4
274. 361 362 UNI GZ 0.35 1 4
275. 335 UNI GZ 0.1 1 4
276. 336 UNI GZ 0.2 1 4
277. 305 CON GZ 0.9 3
278. *****
279. SPECTRUM SRSS X 1 ACC SCALE 9.81 DAMP 0.05 LIN
280. 0 0.06; 0.1 0.084; 0.2 0.109; 0.3 0.133; 0.4 0.133; 0.5 0.133; 0.6 0.133
281. 0.7 0.133; 0.8 0.133; 0.9 0.133; 1 0.133; 1.1 0.133; 1.2 0.133; 1.3 0.133
282. 1.4 0.133; 1.5 0.133; 1.6 0.128; 1.7 0.123; 1.8 0.118; 1.9 0.114; 2 0.11
283. 2.1 0.107; 2.2 0.103; 2.3 0.1; 2.4 0.097; 2.5 0.095; 2.6 0.092; 2.7 0.09
284. 2.8 0.088; 2.9 0.086; 3 0.084; 3.1 0.082; 3.2 0.08; 3.3 0.079; 3.4 0.077
285. 3.5 0.076; 3.6 0.074; 3.7 0.073; 3.8 0.072; 3.9 0.071; 4 0.069; 4.1 0.068
286. 4.2 0.067; 4.3 0.066; 4.4 0.065; 4.5 0.064; 4.6 0.063; 4.7 0.062; 4.8 0.061
287. 4.9 0.061; 5 0.06
288. LOAD 8 LOADTYPE SEISMIC TITLE SISMO Z
289. SPECTRUM SRSS Z 1 ACC SCALE 9.81 DAMP 0.05 LIN
290. ***** SERVICIO ****
291. 0 0.06; 0.1 0.084; 0.2 0.109; 0.3 0.133; 0.4 0.133; 0.5 0.133; 0.6 0.133
292. 0.7 0.133; 0.8 0.133; 0.9 0.133; 1 0.133; 1.1 0.133; 1.2 0.133; 1.3 0.133
293. 1.4 0.133; 1.5 0.133; 1.6 0.128; 1.7 0.123; 1.8 0.118; 1.9 0.114; 2 0.11
294. 2.1 0.107; 2.2 0.103; 2.3 0.1; 2.4 0.097; 2.5 0.095; 2.6 0.092; 2.7 0.09
295. 2.8 0.088; 2.9 0.086; 3 0.084; 3.1 0.082; 3.2 0.08; 3.3 0.079; 3.4 0.077
296. 3.5 0.076; 3.6 0.074; 3.7 0.073; 3.8 0.072; 3.9 0.071; 4 0.069; 4.1 0.068
297. 4.2 0.067; 4.3 0.066; 4.4 0.065; 4.5 0.064; 4.6 0.063; 4.7 0.062; 4.8 0.061
298. 4.9 0.061; 5 0.06
299. LOAD COMB 10 1.0 (PP+CM+CVMAX+EQ)
300. 1 1.0 2 1.0 3 1.0 6 1.0
301. LOAD COMB 11 1.0 (PP+CM+CVINST+EQ+ SX+ 0.3 SZ)
302. 1 1.0 2 1.0 4 1.0 6 1.0 7 1.0 8 0.3
303. LOAD COMB 12 1.0 (PP+CM+CVINST+EQ+ SX- 0.3 SZ)
304. 1 1.0 2 1.0 4 1.0 6 1.0 7 1.0 8 -0.3
305. LOAD COMB 13 1.0 (PP+CM+CVINST+EQ- SX+ 0.3 SZ)
306. 1 1.0 2 1.0 4 1.0 6 1.0 7 -1.0 8 0.3
307. LOAD COMB 14 1.0 (PP+CM+CVINST+EQ- SX- 0.3 SZ)
308. 1 1.0 2 1.0 4 1.0 6 1.0 7 -1.0 8 -0.3
309. LOAD COMB 15 1.0 (PP+CM+CVINST+EQ+ 0.3 SX+ SZ)
310. 1 1.0 2 1.0 4 1.0 6 1.0 7 0.3 8 1.0
311. LOAD COMB 16 1.0 (PP+CM+CVINST+EQ+ 0.3 SX- SZ)
312. 1 1.0 2 1.0 4 1.0 6 1.0 7 0.3 8 -1.0
313. LOAD COMB 17 1.0 (PP+CM+CVINST+EQ- 0.3 SX+ SZ)
314. 1 1.0 2 1.0 4 1.0 6 1.0 7 -0.3 8 1.0
315. LOAD COMB 18 1.0 (PP+CM+CVINST+EQ- 0.3 SX- SZ)

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316. 1 1.0 2 1.0 4 1.0 6 1.0 7 -0.3 8 -1.0
317. ***** DISE?O *****
318. LOAD COMB 20 1.4 (PP+CM+CVMAX+EQ)
319. 1 1.4 2 1.4 3 1.4 6 1.4
320. LOAD COMB 21 1.1 (PP+CM+CVINST+EQ+ SX+ 0.33 SZ)
321. 1 1.1 2 1.1 4 1.1 6 1.1 7 1.1 8 0.33
322. LOAD COMB 22 1.1 (PP+CM+CVINST+EQ+ SX- 0.33 SZ)
323. 1 1.1 2 1.1 4 1.1 6 1.1 7 1.1 8 -0.33
324. LOAD COMB 23 1.1 (PP+CM+CVINST+EQ- SX+ 0.33 SZ)
325. 1 1.1 2 1.1 4 1.1 6 1.1 7 -1.1 8 0.33
326. LOAD COMB 24 1.1 (PP+CM+CVINST+EQ- SX- 0.33 SZ)
327. 1 1.1 2 1.1 4 1.1 6 1.1 7 -1.1 8 -0.33
328. LOAD COMB 25 1.1 (PP+CM+CVINST+EQ+ 0.33 SX+ SZ)
329. 1 1.1 2 1.1 4 1.1 6 1.1 7 0.33 8 1.1
330. LOAD COMB 26 1.1 (PP+CM+CVINST+EQ+ 0.33 SX- SZ)
331. 1 1.1 2 1.1 4 1.1 6 1.1 7 0.33 8 -1.1
332. LOAD COMB 27 1.1 (PP+CM+CVINST+EQ- 0.33 SX+ SZ)
333. 1 1.1 2 1.1 4 1.1 6 1.1 7 -0.33 8 1.1
334. LOAD COMB 28 1.1 (PP+CM+CVINST+EQ- 0.33 SX- SZ)
335. 1 1.1 2 1.1 4 1.1 6 1.1 7 -0.33 8 -1.1
336. LOAD COMB 30 1.0 (PP+CM+CVINST)
337. 1 1.0 2 1.0 4 1.0
338. LOAD COMB 31 1.0 (PP+CM+CVMED+EQ)
339. 1 1.0 2 1.0 5 1.0 6 1.0
340. LOAD COMB 32 1.0 (PP+CM+CVINST+EQ)
341. 1 1.0 2 1.0 4 1.0 6 1.0
342. PERFORM ANALYSIS PRINT ALL
    
```

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	169	NUMBER OF MEMBERS	278
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	25

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

```

ORIGINAL/FINAL BAND-WIDTH= 104/ 14/ 726 DOF
TOTAL PRIMARY LOAD CASES = 8, TOTAL DEGREES OF FREEDOM = 726
TOTAL LOAD COMBINATION CASES = 21 SO FAR.
SIZE OF STIFFNESS MATRIX = 528 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 20.7/ 424125.2 MB
    
```

LOADING 1 LOADTYPE DEAD TITLE PP

SELFWEIGHT Y -1.000

ACTUAL WEIGHT OF THE STRUCTURE = 69.962 MTON

LOADING 2 LOADTYPE DEAD TITLE CM

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
43	-0.4000 GY	0.00	6.00				
44	-0.4000 GY	0.00	6.00				
45	-0.4000 GY	0.00	6.00				
47	-0.4000 GY	0.00	6.00				
48	-0.4000 GY	0.00	6.00				
49	-0.4000 GY	0.00	6.00				
51	-0.4000 GY	0.00	6.00				
52	-0.4000 GY	0.00	6.00				
54	-0.4000 GY	0.00	3.00				
58	-0.4000 GY	0.00	6.00				
59	-0.4000 GY	0.00	6.00				
60	-0.4000 GY	0.00	6.00				
61	-0.4000 GY	0.00	6.00				
100	-0.4000 GY	0.00	6.00				
217	-0.4000 GY	0.00	1.50				
228	-0.4000 GY	0.00	1.50				
46	-0.8000 GY	0.00	6.00				
50	-0.8000 GY	0.00	6.00				
53	-0.8000 GY	0.00	6.00				
55	-0.8000 GY	0.00	6.00				
56	-0.8000 GY	0.00	6.00				
57	-0.8000 GY	0.00	6.00				
70	-0.8000 GY	0.00	6.00				
71	-0.8000 GY	0.00	6.00				
72	-0.8000 GY	0.00	6.00				
73	-0.8000 GY	0.00	6.00				
74	-0.8000 GY	0.00	6.00				
75	-0.8000 GY	0.00	6.00				
84	-0.8000 GY	0.00	6.00				
85	-0.8000 GY	0.00	6.00				
86	-0.8000 GY	0.00	6.00				
87	-0.8000 GY	0.00	6.00				
98	-0.8000 GY	0.00	6.00				
99	-0.8000 GY	0.00	6.00				
108	-0.8000 GY	0.00	6.00				
109	-0.8000 GY	0.00	6.00				
110	-0.8000 GY	0.00	6.00				
111	-0.8000 GY	0.00	6.00				

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112	-0.8000	GY	0.00	6.00
118	-0.8000	GY	0.00	6.00
119	-0.8000	GY	0.00	6.00
120	-0.8000	GY	0.00	6.00
121	-0.8000	GY	0.00	6.00
122	-0.8000	GY	0.00	6.00
128	-0.8000	GY	0.00	6.00
129	-0.8000	GY	0.00	6.00
130	-0.8000	GY	0.00	6.00
131	-0.8000	GY	0.00	6.00
132	-0.8000	GY	0.00	6.00
137	-0.8000	GY	0.00	6.00
138	-0.8000	GY	0.00	6.00
141	-0.8000	GY	0.00	6.00
142	-0.8000	GY	0.00	6.00
145	-0.8000	GY	0.00	6.00
146	-0.8000	GY	0.00	6.00
149	-0.8000	GY	0.00	6.00
150	-0.8000	GY	0.00	6.00
96	-0.3000	GY	0.00	2.00
97	-0.3000	GY	0.00	2.00
100	-0.3000	GY	0.00	6.00
224	-0.3000	GY	0.00	0.50
225	-0.3000	GY	0.00	3.00
226	-0.3000	GY	0.00	1.50
229	-0.3000	GY	0.00	1.50
230	-0.3000	GY	0.00	4.50
273	-0.4700	GY	0.00	6.00
274	-0.4700	GY	0.00	6.00
275	-0.4700	GY	0.00	6.00
277	-0.4700	GY	0.00	6.00
278	-0.4700	GY	0.00	6.00
281	-0.4700	GY	0.00	6.00
282	-0.4700	GY	0.00	6.00
288	-0.4700	GY	0.00	6.00
289	-0.4700	GY	0.00	6.00
290	-0.4700	GY	0.00	6.00
276	-0.9400	GY	0.00	6.00
280	-0.9400	GY	0.00	6.00
284	-0.9400	GY	0.00	6.00
285	-0.9400	GY	0.00	6.00
286	-0.9400	GY	0.00	6.00
300	-0.9400	GY	0.00	6.00
301	-0.9400	GY	0.00	6.00
302	-0.9400	GY	0.00	6.00
303	-0.9400	GY	0.00	6.00
304	-0.9400	GY	0.00	6.00
305	-0.9400	GY	0.00	6.00
314	-0.9400	GY	0.00	6.00
315	-0.9400	GY	0.00	6.00
324	-0.9400	GY	0.00	6.00
325	-0.9400	GY	0.00	6.00
326	-0.9400	GY	0.00	6.00
332	-0.9400	GY	0.00	6.00
333	-0.9400	GY	0.00	6.00
334	-0.9400	GY	0.00	6.00

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335	-0.9400	GY	0.00	6.00
336	-0.9400	GY	0.00	6.00
342	-0.9400	GY	0.00	6.00
343	-0.9400	GY	0.00	6.00
344	-0.9400	GY	0.00	6.00
345	-0.9400	GY	0.00	6.00
346	-0.9400	GY	0.00	6.00
357	-0.9400	GY	0.00	6.00
358	-0.9400	GY	0.00	6.00
361	-0.9400	GY	0.00	6.00
362	-0.9400	GY	0.00	6.00
365	-0.9400	GY	0.00	6.00
366	-0.9400	GY	0.00	6.00
381	-0.9400	GY	0.00	6.00
383	-0.9400	GY	0.00	6.00

LOADING 3 LOADTYPE LIVE TITLE CV MAX

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
43	-0.2500	GY	0.00	6.00			
44	-0.2500	GY	0.00	6.00			
45	-0.2500	GY	0.00	6.00			
47	-0.2500	GY	0.00	6.00			
48	-0.2500	GY	0.00	6.00			
49	-0.2500	GY	0.00	6.00			
51	-0.2500	GY	0.00	6.00			
52	-0.2500	GY	0.00	6.00			
54	-0.2500	GY	0.00	3.00			
58	-0.2500	GY	0.00	6.00			
59	-0.2500	GY	0.00	6.00			
60	-0.2500	GY	0.00	6.00			
61	-0.2500	GY	0.00	6.00			
100	-0.2500	GY	0.00	6.00			
217	-0.2500	GY	0.00	1.50			
228	-0.2500	GY	0.00	1.50			
46	-0.5000	GY	0.00	6.00			
50	-0.5000	GY	0.00	6.00			
53	-0.5000	GY	0.00	6.00			
55	-0.5000	GY	0.00	6.00			
56	-0.5000	GY	0.00	6.00			
57	-0.5000	GY	0.00	6.00			
70	-0.5000	GY	0.00	6.00			
71	-0.5000	GY	0.00	6.00			
72	-0.5000	GY	0.00	6.00			
73	-0.5000	GY	0.00	6.00			
74	-0.5000	GY	0.00	6.00			
75	-0.5000	GY	0.00	6.00			
84	-0.5000	GY	0.00	6.00			
85	-0.5000	GY	0.00	6.00			
86	-0.5000	GY	0.00	6.00			

STAAD SPACE

-- PAGE NO. 11

87	-0.5000	GY	0.00	6.00
98	-0.5000	GY	0.00	6.00
99	-0.5000	GY	0.00	6.00
108	-0.5000	GY	0.00	6.00
109	-0.5000	GY	0.00	6.00
110	-0.5000	GY	0.00	6.00
111	-0.5000	GY	0.00	6.00
112	-0.5000	GY	0.00	6.00
118	-0.5000	GY	0.00	6.00
119	-0.5000	GY	0.00	6.00
120	-0.5000	GY	0.00	6.00
121	-0.5000	GY	0.00	6.00
122	-0.5000	GY	0.00	6.00
128	-0.5000	GY	0.00	6.00
129	-0.5000	GY	0.00	6.00
130	-0.5000	GY	0.00	6.00
131	-0.5000	GY	0.00	6.00
132	-0.5000	GY	0.00	6.00
137	-0.5000	GY	0.00	6.00
138	-0.5000	GY	0.00	6.00
141	-0.5000	GY	0.00	6.00
142	-0.5000	GY	0.00	6.00
145	-0.5000	GY	0.00	6.00
146	-0.5000	GY	0.00	6.00
149	-0.5000	GY	0.00	6.00
150	-0.5000	GY	0.00	6.00
96	-0.1900	GY	0.00	2.00
97	-0.1900	GY	0.00	2.00
100	-0.1900	GY	0.00	6.00
224	-0.1900	GY	0.00	0.50
225	-0.1900	GY	0.00	3.00
226	-0.1900	GY	0.00	1.50
229	-0.1900	GY	0.00	1.50
230	-0.1900	GY	0.00	4.50
273	-0.1000	GY	0.00	6.00
274	-0.1000	GY	0.00	6.00
275	-0.1000	GY	0.00	6.00
277	-0.1000	GY	0.00	6.00
278	-0.1000	GY	0.00	6.00
281	-0.1000	GY	0.00	6.00
282	-0.1000	GY	0.00	6.00
288	-0.1000	GY	0.00	6.00
289	-0.1000	GY	0.00	6.00
290	-0.1000	GY	0.00	6.00
276	-0.2000	GY	0.00	6.00
280	-0.2000	GY	0.00	6.00
284	-0.2000	GY	0.00	6.00
285	-0.2000	GY	0.00	6.00
286	-0.2000	GY	0.00	6.00
300	-0.2000	GY	0.00	6.00
301	-0.2000	GY	0.00	6.00
302	-0.2000	GY	0.00	6.00
303	-0.2000	GY	0.00	6.00
304	-0.2000	GY	0.00	6.00
305	-0.2000	GY	0.00	6.00
314	-0.2000	GY	0.00	6.00

STAAD SPACE

-- PAGE NO. 12

315	-0.2000	GY	0.00	6.00
324	-0.2000	GY	0.00	6.00
325	-0.2000	GY	0.00	6.00
326	-0.2000	GY	0.00	6.00
332	-0.2000	GY	0.00	6.00
333	-0.2000	GY	0.00	6.00
334	-0.2000	GY	0.00	6.00
335	-0.2000	GY	0.00	6.00
336	-0.2000	GY	0.00	6.00
342	-0.2000	GY	0.00	6.00
343	-0.2000	GY	0.00	6.00
344	-0.2000	GY	0.00	6.00
345	-0.2000	GY	0.00	6.00
346	-0.2000	GY	0.00	6.00
357	-0.2000	GY	0.00	6.00
358	-0.2000	GY	0.00	6.00
361	-0.2000	GY	0.00	6.00
362	-0.2000	GY	0.00	6.00
365	-0.2000	GY	0.00	6.00
366	-0.2000	GY	0.00	6.00
381	-0.2000	GY	0.00	6.00
383	-0.2000	GY	0.00	6.00

LOADING 4 LOADTYPE LIVE TITLE CV INST

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
43	-0.1800	GY	0.00	6.00			
44	-0.1800	GY	0.00	6.00			
45	-0.1800	GY	0.00	6.00			
47	-0.1800	GY	0.00	6.00			
48	-0.1800	GY	0.00	6.00			
49	-0.1800	GY	0.00	6.00			
51	-0.1800	GY	0.00	6.00			
52	-0.1800	GY	0.00	6.00			
54	-0.1800	GY	0.00	3.00			
58	-0.1800	GY	0.00	6.00			
59	-0.1800	GY	0.00	6.00			
60	-0.1800	GY	0.00	6.00			
61	-0.1800	GY	0.00	6.00			
100	-0.1800	GY	0.00	6.00			
217	-0.1800	GY	0.00	1.50			
228	-0.1800	GY	0.00	1.50			
46	-0.3600	GY	0.00	6.00			
50	-0.3600	GY	0.00	6.00			
53	-0.3600	GY	0.00	6.00			
55	-0.3600	GY	0.00	6.00			
56	-0.3600	GY	0.00	6.00			
57	-0.3600	GY	0.00	6.00			
70	-0.3600	GY	0.00	6.00			
71	-0.3600	GY	0.00	6.00			

STAAD SPACE

-- PAGE NO. 13

72	-0.3600	GY	0.00	6.00
73	-0.3600	GY	0.00	6.00
74	-0.3600	GY	0.00	6.00
75	-0.3600	GY	0.00	6.00
84	-0.3600	GY	0.00	6.00
85	-0.3600	GY	0.00	6.00
86	-0.3600	GY	0.00	6.00
87	-0.3600	GY	0.00	6.00
98	-0.3600	GY	0.00	6.00
99	-0.3600	GY	0.00	6.00
108	-0.3600	GY	0.00	6.00
109	-0.3600	GY	0.00	6.00
110	-0.3600	GY	0.00	6.00
111	-0.3600	GY	0.00	6.00
112	-0.3600	GY	0.00	6.00
118	-0.3600	GY	0.00	6.00
119	-0.3600	GY	0.00	6.00
120	-0.3600	GY	0.00	6.00
121	-0.3600	GY	0.00	6.00
122	-0.3600	GY	0.00	6.00
128	-0.3600	GY	0.00	6.00
129	-0.3600	GY	0.00	6.00
130	-0.3600	GY	0.00	6.00
131	-0.3600	GY	0.00	6.00
132	-0.3600	GY	0.00	6.00
137	-0.3600	GY	0.00	6.00
138	-0.3600	GY	0.00	6.00
141	-0.3600	GY	0.00	6.00
142	-0.3600	GY	0.00	6.00
145	-0.3600	GY	0.00	6.00
146	-0.3600	GY	0.00	6.00
149	-0.3600	GY	0.00	6.00
150	-0.3600	GY	0.00	6.00
96	-0.1400	GY	0.00	2.00
97	-0.1400	GY	0.00	2.00
100	-0.1400	GY	0.00	6.00
224	-0.1400	GY	0.00	0.50
225	-0.1400	GY	0.00	3.00
226	-0.1400	GY	0.00	1.50
229	-0.1400	GY	0.00	1.50
230	-0.1400	GY	0.00	4.50
273	-0.0700	GY	0.00	6.00
274	-0.0700	GY	0.00	6.00
275	-0.0700	GY	0.00	6.00
277	-0.0700	GY	0.00	6.00
278	-0.0700	GY	0.00	6.00
281	-0.0700	GY	0.00	6.00
282	-0.0700	GY	0.00	6.00
288	-0.0700	GY	0.00	6.00
289	-0.0700	GY	0.00	6.00
290	-0.0700	GY	0.00	6.00
276	-0.1400	GY	0.00	6.00
280	-0.1400	GY	0.00	6.00
284	-0.1400	GY	0.00	6.00
285	-0.1400	GY	0.00	6.00
286	-0.1400	GY	0.00	6.00

STAAD SPACE

-- PAGE NO. 14

300	-0.1400	GY	0.00	6.00
301	-0.1400	GY	0.00	6.00
302	-0.1400	GY	0.00	6.00
303	-0.1400	GY	0.00	6.00
304	-0.1400	GY	0.00	6.00
305	-0.1400	GY	0.00	6.00
314	-0.1400	GY	0.00	6.00
315	-0.1400	GY	0.00	6.00
324	-0.1400	GY	0.00	6.00
325	-0.1400	GY	0.00	6.00
326	-0.1400	GY	0.00	6.00
332	-0.1400	GY	0.00	6.00
333	-0.1400	GY	0.00	6.00
334	-0.1400	GY	0.00	6.00
335	-0.1400	GY	0.00	6.00
336	-0.1400	GY	0.00	6.00
342	-0.1400	GY	0.00	6.00
343	-0.1400	GY	0.00	6.00
344	-0.1400	GY	0.00	6.00
345	-0.1400	GY	0.00	6.00
346	-0.1400	GY	0.00	6.00
357	-0.1400	GY	0.00	6.00
358	-0.1400	GY	0.00	6.00
361	-0.1400	GY	0.00	6.00
362	-0.1400	GY	0.00	6.00
365	-0.1400	GY	0.00	6.00
366	-0.1400	GY	0.00	6.00
381	-0.1400	GY	0.00	6.00
383	-0.1400	GY	0.00	6.00

LOADING 5 LOADTYPE LIVE TITLE CV MEDIA

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	-0.1000	GY	0.00	6.00				
44	-0.1000	GY	0.00	6.00				
45	-0.1000	GY	0.00	6.00				
47	-0.1000	GY	0.00	6.00				
48	-0.1000	GY	0.00	6.00				
49	-0.1000	GY	0.00	6.00				
51	-0.1000	GY	0.00	6.00				
52	-0.1000	GY	0.00	6.00				
54	-0.1000	GY	0.00	3.00				
58	-0.1000	GY	0.00	6.00				
59	-0.1000	GY	0.00	6.00				
60	-0.1000	GY	0.00	6.00				
61	-0.1000	GY	0.00	6.00				
100	-0.1000	GY	0.00	6.00				
217	-0.1000	GY	0.00	1.50				
228	-0.1000	GY	0.00	1.50				
46	-0.2000	GY	0.00	6.00				

STAAD SPACE

-- PAGE NO. 15

50	-0.2000	GY	0.00	6.00
53	-0.2000	GY	0.00	6.00
55	-0.2000	GY	0.00	6.00
56	-0.2000	GY	0.00	6.00
57	-0.2000	GY	0.00	6.00
70	-0.2000	GY	0.00	6.00
71	-0.2000	GY	0.00	6.00
72	-0.2000	GY	0.00	6.00
73	-0.2000	GY	0.00	6.00
74	-0.2000	GY	0.00	6.00
75	-0.2000	GY	0.00	6.00
84	-0.2000	GY	0.00	6.00
85	-0.2000	GY	0.00	6.00
86	-0.2000	GY	0.00	6.00
87	-0.2000	GY	0.00	6.00
98	-0.2000	GY	0.00	6.00
99	-0.2000	GY	0.00	6.00
108	-0.2000	GY	0.00	6.00
109	-0.2000	GY	0.00	6.00
110	-0.2000	GY	0.00	6.00
111	-0.2000	GY	0.00	6.00
112	-0.2000	GY	0.00	6.00
118	-0.2000	GY	0.00	6.00
119	-0.2000	GY	0.00	6.00
120	-0.2000	GY	0.00	6.00
121	-0.2000	GY	0.00	6.00
122	-0.2000	GY	0.00	6.00
128	-0.2000	GY	0.00	6.00
129	-0.2000	GY	0.00	6.00
130	-0.2000	GY	0.00	6.00
131	-0.2000	GY	0.00	6.00
132	-0.2000	GY	0.00	6.00
137	-0.2000	GY	0.00	6.00
138	-0.2000	GY	0.00	6.00
141	-0.2000	GY	0.00	6.00
142	-0.2000	GY	0.00	6.00
145	-0.2000	GY	0.00	6.00
146	-0.2000	GY	0.00	6.00
149	-0.2000	GY	0.00	6.00
150	-0.2000	GY	0.00	6.00
96	-0.0750	GY	0.00	2.00
97	-0.0750	GY	0.00	2.00
100	-0.0750	GY	0.00	6.00
224	-0.0750	GY	0.00	0.50
225	-0.0750	GY	0.00	3.00
226	-0.0750	GY	0.00	1.50
229	-0.0750	GY	0.00	1.50
230	-0.0750	GY	0.00	4.50
273	-0.0150	GY	0.00	6.00
274	-0.0150	GY	0.00	6.00
275	-0.0150	GY	0.00	6.00
277	-0.0150	GY	0.00	6.00
278	-0.0150	GY	0.00	6.00
281	-0.0150	GY	0.00	6.00
282	-0.0150	GY	0.00	6.00
288	-0.0150	GY	0.00	6.00

STAAD SPACE

-- PAGE NO. 16

289	-0.0150	GY	0.00	6.00
290	-0.0150	GY	0.00	6.00
276	-0.0300	GY	0.00	6.00
280	-0.0300	GY	0.00	6.00
284	-0.0300	GY	0.00	6.00
285	-0.0300	GY	0.00	6.00
286	-0.0300	GY	0.00	6.00
300	-0.0300	GY	0.00	6.00
301	-0.0300	GY	0.00	6.00
302	-0.0300	GY	0.00	6.00
303	-0.0300	GY	0.00	6.00
304	-0.0300	GY	0.00	6.00
305	-0.0300	GY	0.00	6.00
314	-0.0300	GY	0.00	6.00
315	-0.0300	GY	0.00	6.00
324	-0.0300	GY	0.00	6.00
325	-0.0300	GY	0.00	6.00
326	-0.0300	GY	0.00	6.00
332	-0.0300	GY	0.00	6.00
333	-0.0300	GY	0.00	6.00
334	-0.0300	GY	0.00	6.00
335	-0.0300	GY	0.00	6.00
336	-0.0300	GY	0.00	6.00
342	-0.0300	GY	0.00	6.00
343	-0.0300	GY	0.00	6.00
344	-0.0300	GY	0.00	6.00
345	-0.0300	GY	0.00	6.00
346	-0.0300	GY	0.00	6.00
357	-0.0300	GY	0.00	6.00
358	-0.0300	GY	0.00	6.00
361	-0.0300	GY	0.00	6.00
362	-0.0300	GY	0.00	6.00
365	-0.0300	GY	0.00	6.00
366	-0.0300	GY	0.00	6.00
381	-0.0300	GY	0.00	6.00
383	-0.0300	GY	0.00	6.00

LOADING 6 LOADTYPE LIVE TITLE EQUIPOS

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
333				-0.5000 GY	2.00		
333				-0.5000 GY	5.00		
334				-0.5000 GY	2.00		
334				-0.5000 GY	5.00		
325				-0.4000 GY	4.00		
326				-0.6000 GY	4.00		
361	-0.3500 GY	1.00	4.00				
362	-0.3500 GY	1.00	4.00				
335	-0.1000 GY	1.00	4.00				
336	-0.2000 GY	1.00	4.00				

STAAD SPACE

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305 -0.9000 GY 3.00

LOADING 7 LOADTYPE SEISMIC TITLE SISMO X

SELFWEIGHT X 1.000

ACTUAL WEIGHT OF THE STRUCTURE = 69.962 MTON

SELFWEIGHT Y 1.000

ACTUAL WEIGHT OF THE STRUCTURE = 69.962 MTON

SELFWEIGHT Z 1.000

ACTUAL WEIGHT OF THE STRUCTURE = 69.962 MTON

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	0.4000 GX		0.00	6.00				
44	0.4000 GX		0.00	6.00				
45	0.4000 GX		0.00	6.00				
47	0.4000 GX		0.00	6.00				
48	0.4000 GX		0.00	6.00				
49	0.4000 GX		0.00	6.00				
51	0.4000 GX		0.00	6.00				
52	0.4000 GX		0.00	6.00				
54	0.4000 GX		0.00	3.00				
58	0.4000 GX		0.00	6.00				
59	0.4000 GX		0.00	6.00				
60	0.4000 GX		0.00	6.00				
61	0.4000 GX		0.00	6.00				
100	0.4000 GX		0.00	6.00				
217	0.4000 GX		0.00	1.50				
228	0.4000 GX		0.00	1.50				
46	0.8000 GX		0.00	6.00				
50	0.8000 GX		0.00	6.00				
53	0.8000 GX		0.00	6.00				
55	0.8000 GX		0.00	6.00				
56	0.8000 GX		0.00	6.00				
57	0.8000 GX		0.00	6.00				
70	0.8000 GX		0.00	6.00				
71	0.8000 GX		0.00	6.00				
72	0.8000 GX		0.00	6.00				
73	0.8000 GX		0.00	6.00				
74	0.8000 GX		0.00	6.00				
75	0.8000 GX		0.00	6.00				
84	0.8000 GX		0.00	6.00				
85	0.8000 GX		0.00	6.00				
86	0.8000 GX		0.00	6.00				
87	0.8000 GX		0.00	6.00				
98	0.8000 GX		0.00	6.00				

STAAD SPACE

-- PAGE NO. 18

99	0.8000	GX	0.00	6.00
108	0.8000	GX	0.00	6.00
109	0.8000	GX	0.00	6.00
110	0.8000	GX	0.00	6.00
111	0.8000	GX	0.00	6.00
112	0.8000	GX	0.00	6.00
118	0.8000	GX	0.00	6.00
119	0.8000	GX	0.00	6.00
120	0.8000	GX	0.00	6.00
121	0.8000	GX	0.00	6.00
122	0.8000	GX	0.00	6.00
128	0.8000	GX	0.00	6.00
129	0.8000	GX	0.00	6.00
130	0.8000	GX	0.00	6.00
131	0.8000	GX	0.00	6.00
132	0.8000	GX	0.00	6.00
137	0.8000	GX	0.00	6.00
138	0.8000	GX	0.00	6.00
141	0.8000	GX	0.00	6.00
142	0.8000	GX	0.00	6.00
145	0.8000	GX	0.00	6.00
146	0.8000	GX	0.00	6.00
149	0.8000	GX	0.00	6.00
150	0.8000	GX	0.00	6.00
96	0.3000	GX	0.00	2.00
97	0.3000	GX	0.00	2.00
100	0.3000	GX	0.00	6.00
224	0.3000	GX	0.00	0.50
225	0.3000	GX	0.00	3.00
226	0.3000	GX	0.00	1.50
229	0.3000	GX	0.00	1.50
230	0.3000	GX	0.00	4.50
273	0.4700	GX	0.00	6.00
274	0.4700	GX	0.00	6.00
275	0.4700	GX	0.00	6.00
277	0.4700	GX	0.00	6.00
278	0.4700	GX	0.00	6.00
281	0.4700	GX	0.00	6.00
282	0.4700	GX	0.00	6.00
288	0.4700	GX	0.00	6.00
289	0.4700	GX	0.00	6.00
290	0.4700	GX	0.00	6.00
276	0.9400	GX	0.00	6.00
280	0.9400	GX	0.00	6.00
284	0.9400	GX	0.00	6.00
285	0.9400	GX	0.00	6.00
286	0.9400	GX	0.00	6.00
300	0.9400	GX	0.00	6.00
301	0.9400	GX	0.00	6.00
302	0.9400	GX	0.00	6.00
303	0.9400	GX	0.00	6.00
304	0.9400	GX	0.00	6.00
305	0.9400	GX	0.00	6.00
314	0.9400	GX	0.00	6.00
315	0.9400	GX	0.00	6.00
324	0.9400	GX	0.00	6.00

STAAD SPACE

-- PAGE NO. 19

325	0.9400	GX	0.00	6.00
326	0.9400	GX	0.00	6.00
332	0.9400	GX	0.00	6.00
333	0.9400	GX	0.00	6.00
334	0.9400	GX	0.00	6.00
335	0.9400	GX	0.00	6.00
336	0.9400	GX	0.00	6.00
342	0.9400	GX	0.00	6.00
343	0.9400	GX	0.00	6.00
344	0.9400	GX	0.00	6.00
345	0.9400	GX	0.00	6.00
346	0.9400	GX	0.00	6.00
357	0.9400	GX	0.00	6.00
358	0.9400	GX	0.00	6.00
361	0.9400	GX	0.00	6.00
362	0.9400	GX	0.00	6.00
365	0.9400	GX	0.00	6.00
366	0.9400	GX	0.00	6.00
381	0.9400	GX	0.00	6.00
383	0.9400	GX	0.00	6.00

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	0.4000	GY	0.00	6.00				
44	0.4000	GY	0.00	6.00				
45	0.4000	GY	0.00	6.00				
47	0.4000	GY	0.00	6.00				
48	0.4000	GY	0.00	6.00				
49	0.4000	GY	0.00	6.00				
51	0.4000	GY	0.00	6.00				
52	0.4000	GY	0.00	6.00				
54	0.4000	GY	0.00	3.00				
58	0.4000	GY	0.00	6.00				
59	0.4000	GY	0.00	6.00				
60	0.4000	GY	0.00	6.00				
61	0.4000	GY	0.00	6.00				
100	0.4000	GY	0.00	6.00				
217	0.4000	GY	0.00	1.50				
228	0.4000	GY	0.00	1.50				
46	0.8000	GY	0.00	6.00				
50	0.8000	GY	0.00	6.00				
53	0.8000	GY	0.00	6.00				
55	0.8000	GY	0.00	6.00				
56	0.8000	GY	0.00	6.00				
57	0.8000	GY	0.00	6.00				
70	0.8000	GY	0.00	6.00				
71	0.8000	GY	0.00	6.00				
72	0.8000	GY	0.00	6.00				
73	0.8000	GY	0.00	6.00				
74	0.8000	GY	0.00	6.00				
75	0.8000	GY	0.00	6.00				
84	0.8000	GY	0.00	6.00				
85	0.8000	GY	0.00	6.00				

STAAD SPACE

-- PAGE NO. 20

86	0.8000	GY	0.00	6.00
87	0.8000	GY	0.00	6.00
98	0.8000	GY	0.00	6.00
99	0.8000	GY	0.00	6.00
108	0.8000	GY	0.00	6.00
109	0.8000	GY	0.00	6.00
110	0.8000	GY	0.00	6.00
111	0.8000	GY	0.00	6.00
112	0.8000	GY	0.00	6.00
118	0.8000	GY	0.00	6.00
119	0.8000	GY	0.00	6.00
120	0.8000	GY	0.00	6.00
121	0.8000	GY	0.00	6.00
122	0.8000	GY	0.00	6.00
128	0.8000	GY	0.00	6.00
129	0.8000	GY	0.00	6.00
130	0.8000	GY	0.00	6.00
131	0.8000	GY	0.00	6.00
132	0.8000	GY	0.00	6.00
137	0.8000	GY	0.00	6.00
138	0.8000	GY	0.00	6.00
141	0.8000	GY	0.00	6.00
142	0.8000	GY	0.00	6.00
145	0.8000	GY	0.00	6.00
146	0.8000	GY	0.00	6.00
149	0.8000	GY	0.00	6.00
150	0.8000	GY	0.00	6.00
96	0.3000	GY	0.00	2.00
97	0.3000	GY	0.00	2.00
100	0.3000	GY	0.00	6.00
224	0.3000	GY	0.00	0.50
225	0.3000	GY	0.00	3.00
226	0.3000	GY	0.00	1.50
229	0.3000	GY	0.00	1.50
230	0.3000	GY	0.00	4.50
273	0.4700	GY	0.00	6.00
274	0.4700	GY	0.00	6.00
275	0.4700	GY	0.00	6.00
277	0.4700	GY	0.00	6.00
278	0.4700	GY	0.00	6.00
281	0.4700	GY	0.00	6.00
282	0.4700	GY	0.00	6.00
288	0.4700	GY	0.00	6.00
289	0.4700	GY	0.00	6.00
290	0.4700	GY	0.00	6.00
276	0.9400	GY	0.00	6.00
280	0.9400	GY	0.00	6.00
284	0.9400	GY	0.00	6.00
285	0.9400	GY	0.00	6.00
286	0.9400	GY	0.00	6.00
300	0.9400	GY	0.00	6.00
301	0.9400	GY	0.00	6.00
302	0.9400	GY	0.00	6.00
303	0.9400	GY	0.00	6.00
304	0.9400	GY	0.00	6.00
305	0.9400	GY	0.00	6.00

STAAD SPACE

-- PAGE NO. 21

314	0.9400	GY	0.00	6.00
315	0.9400	GY	0.00	6.00
324	0.9400	GY	0.00	6.00
325	0.9400	GY	0.00	6.00
326	0.9400	GY	0.00	6.00
332	0.9400	GY	0.00	6.00
333	0.9400	GY	0.00	6.00
334	0.9400	GY	0.00	6.00
335	0.9400	GY	0.00	6.00
336	0.9400	GY	0.00	6.00
342	0.9400	GY	0.00	6.00
343	0.9400	GY	0.00	6.00
344	0.9400	GY	0.00	6.00
345	0.9400	GY	0.00	6.00
346	0.9400	GY	0.00	6.00
357	0.9400	GY	0.00	6.00
358	0.9400	GY	0.00	6.00
361	0.9400	GY	0.00	6.00
362	0.9400	GY	0.00	6.00
365	0.9400	GY	0.00	6.00
366	0.9400	GY	0.00	6.00
381	0.9400	GY	0.00	6.00
383	0.9400	GY	0.00	6.00

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	0.4000	GZ	0.00	6.00				
44	0.4000	GZ	0.00	6.00				
45	0.4000	GZ	0.00	6.00				
47	0.4000	GZ	0.00	6.00				
48	0.4000	GZ	0.00	6.00				
49	0.4000	GZ	0.00	6.00				
51	0.4000	GZ	0.00	6.00				
52	0.4000	GZ	0.00	6.00				
54	0.4000	GZ	0.00	3.00				
58	0.4000	GZ	0.00	6.00				
59	0.4000	GZ	0.00	6.00				
60	0.4000	GZ	0.00	6.00				
61	0.4000	GZ	0.00	6.00				
100	0.4000	GZ	0.00	6.00				
217	0.4000	GZ	0.00	1.50				
228	0.4000	GZ	0.00	1.50				
46	0.8000	GZ	0.00	6.00				
50	0.8000	GZ	0.00	6.00				
53	0.8000	GZ	0.00	6.00				
55	0.8000	GZ	0.00	6.00				
56	0.8000	GZ	0.00	6.00				
57	0.8000	GZ	0.00	6.00				
70	0.8000	GZ	0.00	6.00				
71	0.8000	GZ	0.00	6.00				
72	0.8000	GZ	0.00	6.00				
73	0.8000	GZ	0.00	6.00				
74	0.8000	GZ	0.00	6.00				

STAAD SPACE

-- PAGE NO. 22

75	0.8000	GZ	0.00	6.00
84	0.8000	GZ	0.00	6.00
85	0.8000	GZ	0.00	6.00
86	0.8000	GZ	0.00	6.00
87	0.8000	GZ	0.00	6.00
98	0.8000	GZ	0.00	6.00
99	0.8000	GZ	0.00	6.00
108	0.8000	GZ	0.00	6.00
109	0.8000	GZ	0.00	6.00
110	0.8000	GZ	0.00	6.00
111	0.8000	GZ	0.00	6.00
112	0.8000	GZ	0.00	6.00
118	0.8000	GZ	0.00	6.00
119	0.8000	GZ	0.00	6.00
120	0.8000	GZ	0.00	6.00
121	0.8000	GZ	0.00	6.00
122	0.8000	GZ	0.00	6.00
128	0.8000	GZ	0.00	6.00
129	0.8000	GZ	0.00	6.00
130	0.8000	GZ	0.00	6.00
131	0.8000	GZ	0.00	6.00
132	0.8000	GZ	0.00	6.00
137	0.8000	GZ	0.00	6.00
138	0.8000	GZ	0.00	6.00
141	0.8000	GZ	0.00	6.00
142	0.8000	GZ	0.00	6.00
145	0.8000	GZ	0.00	6.00
146	0.8000	GZ	0.00	6.00
149	0.8000	GZ	0.00	6.00
150	0.8000	GZ	0.00	6.00
96	0.3000	GZ	0.00	2.00
97	0.3000	GZ	0.00	2.00
100	0.3000	GZ	0.00	6.00
224	0.3000	GZ	0.00	0.50
225	0.3000	GZ	0.00	3.00
226	0.3000	GZ	0.00	1.50
229	0.3000	GZ	0.00	1.50
230	0.3000	GZ	0.00	4.50
273	0.4700	GZ	0.00	6.00
274	0.4700	GZ	0.00	6.00
275	0.4700	GZ	0.00	6.00
277	0.4700	GZ	0.00	6.00
278	0.4700	GZ	0.00	6.00
281	0.4700	GZ	0.00	6.00
282	0.4700	GZ	0.00	6.00
288	0.4700	GZ	0.00	6.00
289	0.4700	GZ	0.00	6.00
290	0.4700	GZ	0.00	6.00
276	0.9400	GZ	0.00	6.00
280	0.9400	GZ	0.00	6.00
284	0.9400	GZ	0.00	6.00
285	0.9400	GZ	0.00	6.00
286	0.9400	GZ	0.00	6.00
300	0.9400	GZ	0.00	6.00
301	0.9400	GZ	0.00	6.00
302	0.9400	GZ	0.00	6.00

STAAD SPACE

-- PAGE NO. 23

303	0.9400	GZ	0.00	6.00
304	0.9400	GZ	0.00	6.00
305	0.9400	GZ	0.00	6.00
314	0.9400	GZ	0.00	6.00
315	0.9400	GZ	0.00	6.00
324	0.9400	GZ	0.00	6.00
325	0.9400	GZ	0.00	6.00
326	0.9400	GZ	0.00	6.00
332	0.9400	GZ	0.00	6.00
333	0.9400	GZ	0.00	6.00
334	0.9400	GZ	0.00	6.00
335	0.9400	GZ	0.00	6.00
336	0.9400	GZ	0.00	6.00
342	0.9400	GZ	0.00	6.00
343	0.9400	GZ	0.00	6.00
344	0.9400	GZ	0.00	6.00
345	0.9400	GZ	0.00	6.00
346	0.9400	GZ	0.00	6.00
357	0.9400	GZ	0.00	6.00
358	0.9400	GZ	0.00	6.00
361	0.9400	GZ	0.00	6.00
362	0.9400	GZ	0.00	6.00
365	0.9400	GZ	0.00	6.00
366	0.9400	GZ	0.00	6.00
381	0.9400	GZ	0.00	6.00
383	0.9400	GZ	0.00	6.00

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	0.1800	GX	0.00	6.00				
44	0.1800	GX	0.00	6.00				
45	0.1800	GX	0.00	6.00				
47	0.1800	GX	0.00	6.00				
48	0.1800	GX	0.00	6.00				
49	0.1800	GX	0.00	6.00				
51	0.1800	GX	0.00	6.00				
52	0.1800	GX	0.00	6.00				
54	0.1800	GX	0.00	3.00				
58	0.1800	GX	0.00	6.00				
59	0.1800	GX	0.00	6.00				
60	0.1800	GX	0.00	6.00				
61	0.1800	GX	0.00	6.00				
100	0.1800	GX	0.00	6.00				
217	0.1800	GX	0.00	1.50				
228	0.1800	GX	0.00	1.50				
46	0.3600	GX	0.00	6.00				
50	0.3600	GX	0.00	6.00				
53	0.3600	GX	0.00	6.00				
55	0.3600	GX	0.00	6.00				
56	0.3600	GX	0.00	6.00				
57	0.3600	GX	0.00	6.00				
70	0.3600	GX	0.00	6.00				
71	0.3600	GX	0.00	6.00				

STAAD SPACE

-- PAGE NO. 24

72	0.3600	GX	0.00	6.00
73	0.3600	GX	0.00	6.00
74	0.3600	GX	0.00	6.00
75	0.3600	GX	0.00	6.00
84	0.3600	GX	0.00	6.00
85	0.3600	GX	0.00	6.00
86	0.3600	GX	0.00	6.00
87	0.3600	GX	0.00	6.00
98	0.3600	GX	0.00	6.00
99	0.3600	GX	0.00	6.00
108	0.3600	GX	0.00	6.00
109	0.3600	GX	0.00	6.00
110	0.3600	GX	0.00	6.00
111	0.3600	GX	0.00	6.00
112	0.3600	GX	0.00	6.00
118	0.3600	GX	0.00	6.00
119	0.3600	GX	0.00	6.00
120	0.3600	GX	0.00	6.00
121	0.3600	GX	0.00	6.00
122	0.3600	GX	0.00	6.00
128	0.3600	GX	0.00	6.00
129	0.3600	GX	0.00	6.00
130	0.3600	GX	0.00	6.00
131	0.3600	GX	0.00	6.00
132	0.3600	GX	0.00	6.00
137	0.3600	GX	0.00	6.00
138	0.3600	GX	0.00	6.00
141	0.3600	GX	0.00	6.00
142	0.3600	GX	0.00	6.00
145	0.3600	GX	0.00	6.00
146	0.3600	GX	0.00	6.00
149	0.3600	GX	0.00	6.00
150	0.3600	GX	0.00	6.00
96	0.1400	GX	0.00	2.00
97	0.1400	GX	0.00	2.00
100	0.1400	GX	0.00	6.00
224	0.1400	GX	0.00	0.50
225	0.1400	GX	0.00	3.00
226	0.1400	GX	0.00	1.50
229	0.1400	GX	0.00	1.50
230	0.1400	GX	0.00	4.50
273	0.0700	GX	0.00	6.00
274	0.0700	GX	0.00	6.00
275	0.0700	GX	0.00	6.00
277	0.0700	GX	0.00	6.00
278	0.0700	GX	0.00	6.00
281	0.0700	GX	0.00	6.00
282	0.0700	GX	0.00	6.00
288	0.0700	GX	0.00	6.00
289	0.0700	GX	0.00	6.00
290	0.0700	GX	0.00	6.00
276	0.1400	GX	0.00	6.00
280	0.1400	GX	0.00	6.00
284	0.1400	GX	0.00	6.00
285	0.1400	GX	0.00	6.00
286	0.1400	GX	0.00	6.00

STAAD SPACE

-- PAGE NO. 25

300	0.1400	GX	0.00	6.00
301	0.1400	GX	0.00	6.00
302	0.1400	GX	0.00	6.00
303	0.1400	GX	0.00	6.00
304	0.1400	GX	0.00	6.00
305	0.1400	GX	0.00	6.00
314	0.1400	GX	0.00	6.00
315	0.1400	GX	0.00	6.00
324	0.1400	GX	0.00	6.00
325	0.1400	GX	0.00	6.00
326	0.1400	GX	0.00	6.00
332	0.1400	GX	0.00	6.00
333	0.1400	GX	0.00	6.00
334	0.1400	GX	0.00	6.00
335	0.1400	GX	0.00	6.00
336	0.1400	GX	0.00	6.00
342	0.1400	GX	0.00	6.00
343	0.1400	GX	0.00	6.00
344	0.1400	GX	0.00	6.00
345	0.1400	GX	0.00	6.00
346	0.1400	GX	0.00	6.00
357	0.1400	GX	0.00	6.00
358	0.1400	GX	0.00	6.00
361	0.1400	GX	0.00	6.00
362	0.1400	GX	0.00	6.00
365	0.1400	GX	0.00	6.00
366	0.1400	GX	0.00	6.00
381	0.1400	GX	0.00	6.00
383	0.1400	GX	0.00	6.00

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	0.1800	GY	0.00	6.00				
44	0.1800	GY	0.00	6.00				
45	0.1800	GY	0.00	6.00				
47	0.1800	GY	0.00	6.00				
48	0.1800	GY	0.00	6.00				
49	0.1800	GY	0.00	6.00				
51	0.1800	GY	0.00	6.00				
52	0.1800	GY	0.00	6.00				
54	0.1800	GY	0.00	3.00				
58	0.1800	GY	0.00	6.00				
59	0.1800	GY	0.00	6.00				
60	0.1800	GY	0.00	6.00				
61	0.1800	GY	0.00	6.00				
100	0.1800	GY	0.00	6.00				
217	0.1800	GY	0.00	1.50				
228	0.1800	GY	0.00	1.50				
46	0.3600	GY	0.00	6.00				
50	0.3600	GY	0.00	6.00				
53	0.3600	GY	0.00	6.00				
55	0.3600	GY	0.00	6.00				
56	0.3600	GY	0.00	6.00				

STAAD SPACE

-- PAGE NO. 26

57	0.3600	GY	0.00	6.00
70	0.3600	GY	0.00	6.00
71	0.3600	GY	0.00	6.00
72	0.3600	GY	0.00	6.00
73	0.3600	GY	0.00	6.00
74	0.3600	GY	0.00	6.00
75	0.3600	GY	0.00	6.00
84	0.3600	GY	0.00	6.00
85	0.3600	GY	0.00	6.00
86	0.3600	GY	0.00	6.00
87	0.3600	GY	0.00	6.00
98	0.3600	GY	0.00	6.00
99	0.3600	GY	0.00	6.00
108	0.3600	GY	0.00	6.00
109	0.3600	GY	0.00	6.00
110	0.3600	GY	0.00	6.00
111	0.3600	GY	0.00	6.00
112	0.3600	GY	0.00	6.00
118	0.3600	GY	0.00	6.00
119	0.3600	GY	0.00	6.00
120	0.3600	GY	0.00	6.00
121	0.3600	GY	0.00	6.00
122	0.3600	GY	0.00	6.00
128	0.3600	GY	0.00	6.00
129	0.3600	GY	0.00	6.00
130	0.3600	GY	0.00	6.00
131	0.3600	GY	0.00	6.00
132	0.3600	GY	0.00	6.00
137	0.3600	GY	0.00	6.00
138	0.3600	GY	0.00	6.00
141	0.3600	GY	0.00	6.00
142	0.3600	GY	0.00	6.00
145	0.3600	GY	0.00	6.00
146	0.3600	GY	0.00	6.00
149	0.3600	GY	0.00	6.00
150	0.3600	GY	0.00	6.00
96	0.1400	GY	0.00	2.00
97	0.1400	GY	0.00	2.00
100	0.1400	GY	0.00	6.00
224	0.1400	GY	0.00	0.50
225	0.1400	GY	0.00	3.00
226	0.1400	GY	0.00	1.50
229	0.1400	GY	0.00	1.50
230	0.1400	GY	0.00	4.50
273	0.0700	GY	0.00	6.00
274	0.0700	GY	0.00	6.00
275	0.0700	GY	0.00	6.00
277	0.0700	GY	0.00	6.00
278	0.0700	GY	0.00	6.00
281	0.0700	GY	0.00	6.00
282	0.0700	GY	0.00	6.00
288	0.0700	GY	0.00	6.00
289	0.0700	GY	0.00	6.00
290	0.0700	GY	0.00	6.00
276	0.1400	GY	0.00	6.00
280	0.1400	GY	0.00	6.00

STAAD SPACE

-- PAGE NO. 27

284	0.1400	GY	0.00	6.00
285	0.1400	GY	0.00	6.00
286	0.1400	GY	0.00	6.00
300	0.1400	GY	0.00	6.00
301	0.1400	GY	0.00	6.00
302	0.1400	GY	0.00	6.00
303	0.1400	GY	0.00	6.00
304	0.1400	GY	0.00	6.00
305	0.1400	GY	0.00	6.00
314	0.1400	GY	0.00	6.00
315	0.1400	GY	0.00	6.00
324	0.1400	GY	0.00	6.00
325	0.1400	GY	0.00	6.00
326	0.1400	GY	0.00	6.00
332	0.1400	GY	0.00	6.00
333	0.1400	GY	0.00	6.00
334	0.1400	GY	0.00	6.00
335	0.1400	GY	0.00	6.00
336	0.1400	GY	0.00	6.00
342	0.1400	GY	0.00	6.00
343	0.1400	GY	0.00	6.00
344	0.1400	GY	0.00	6.00
345	0.1400	GY	0.00	6.00
346	0.1400	GY	0.00	6.00
357	0.1400	GY	0.00	6.00
358	0.1400	GY	0.00	6.00
361	0.1400	GY	0.00	6.00
362	0.1400	GY	0.00	6.00
365	0.1400	GY	0.00	6.00
366	0.1400	GY	0.00	6.00
381	0.1400	GY	0.00	6.00
383	0.1400	GY	0.00	6.00

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL		L1	L2	CON	L	LIN1	LIN2
43	0.1800	GZ	0.00	6.00				
44	0.1800	GZ	0.00	6.00				
45	0.1800	GZ	0.00	6.00				
47	0.1800	GZ	0.00	6.00				
48	0.1800	GZ	0.00	6.00				
49	0.1800	GZ	0.00	6.00				
51	0.1800	GZ	0.00	6.00				
52	0.1800	GZ	0.00	6.00				
54	0.1800	GZ	0.00	3.00				
58	0.1800	GZ	0.00	6.00				
59	0.1800	GZ	0.00	6.00				
60	0.1800	GZ	0.00	6.00				
61	0.1800	GZ	0.00	6.00				
100	0.1800	GZ	0.00	6.00				
217	0.1800	GZ	0.00	1.50				
228	0.1800	GZ	0.00	1.50				
46	0.3600	GZ	0.00	6.00				
50	0.3600	GZ	0.00	6.00				

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53	0.3600	GZ	0.00	6.00
55	0.3600	GZ	0.00	6.00
56	0.3600	GZ	0.00	6.00
57	0.3600	GZ	0.00	6.00
70	0.3600	GZ	0.00	6.00
71	0.3600	GZ	0.00	6.00
72	0.3600	GZ	0.00	6.00
73	0.3600	GZ	0.00	6.00
74	0.3600	GZ	0.00	6.00
75	0.3600	GZ	0.00	6.00
84	0.3600	GZ	0.00	6.00
85	0.3600	GZ	0.00	6.00
86	0.3600	GZ	0.00	6.00
87	0.3600	GZ	0.00	6.00
98	0.3600	GZ	0.00	6.00
99	0.3600	GZ	0.00	6.00
108	0.3600	GZ	0.00	6.00
109	0.3600	GZ	0.00	6.00
110	0.3600	GZ	0.00	6.00
111	0.3600	GZ	0.00	6.00
112	0.3600	GZ	0.00	6.00
118	0.3600	GZ	0.00	6.00
119	0.3600	GZ	0.00	6.00
120	0.3600	GZ	0.00	6.00
121	0.3600	GZ	0.00	6.00
122	0.3600	GZ	0.00	6.00
128	0.3600	GZ	0.00	6.00
129	0.3600	GZ	0.00	6.00
130	0.3600	GZ	0.00	6.00
131	0.3600	GZ	0.00	6.00
132	0.3600	GZ	0.00	6.00
137	0.3600	GZ	0.00	6.00
138	0.3600	GZ	0.00	6.00
141	0.3600	GZ	0.00	6.00
142	0.3600	GZ	0.00	6.00
145	0.3600	GZ	0.00	6.00
146	0.3600	GZ	0.00	6.00
149	0.3600	GZ	0.00	6.00
150	0.3600	GZ	0.00	6.00
96	0.1400	GZ	0.00	2.00
97	0.1400	GZ	0.00	2.00
100	0.1400	GZ	0.00	6.00
224	0.1400	GZ	0.00	0.50
225	0.1400	GZ	0.00	3.00
226	0.1400	GZ	0.00	1.50
229	0.1400	GZ	0.00	1.50
230	0.1400	GZ	0.00	4.50
273	0.0700	GZ	0.00	6.00
274	0.0700	GZ	0.00	6.00
275	0.0700	GZ	0.00	6.00
277	0.0700	GZ	0.00	6.00
278	0.0700	GZ	0.00	6.00
281	0.0700	GZ	0.00	6.00
282	0.0700	GZ	0.00	6.00
288	0.0700	GZ	0.00	6.00
289	0.0700	GZ	0.00	6.00

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290	0.0700	GZ	0.00	6.00
276	0.1400	GZ	0.00	6.00
280	0.1400	GZ	0.00	6.00
284	0.1400	GZ	0.00	6.00
285	0.1400	GZ	0.00	6.00
286	0.1400	GZ	0.00	6.00
300	0.1400	GZ	0.00	6.00
301	0.1400	GZ	0.00	6.00
302	0.1400	GZ	0.00	6.00
303	0.1400	GZ	0.00	6.00
304	0.1400	GZ	0.00	6.00
305	0.1400	GZ	0.00	6.00
314	0.1400	GZ	0.00	6.00
315	0.1400	GZ	0.00	6.00
324	0.1400	GZ	0.00	6.00
325	0.1400	GZ	0.00	6.00
326	0.1400	GZ	0.00	6.00
332	0.1400	GZ	0.00	6.00
333	0.1400	GZ	0.00	6.00
334	0.1400	GZ	0.00	6.00
335	0.1400	GZ	0.00	6.00
336	0.1400	GZ	0.00	6.00
342	0.1400	GZ	0.00	6.00
343	0.1400	GZ	0.00	6.00
344	0.1400	GZ	0.00	6.00
345	0.1400	GZ	0.00	6.00
346	0.1400	GZ	0.00	6.00
357	0.1400	GZ	0.00	6.00
358	0.1400	GZ	0.00	6.00
361	0.1400	GZ	0.00	6.00
362	0.1400	GZ	0.00	6.00
365	0.1400	GZ	0.00	6.00
366	0.1400	GZ	0.00	6.00
381	0.1400	GZ	0.00	6.00
383	0.1400	GZ	0.00	6.00

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
333				0.5000 GX	2.00		
333				0.5000 GX	5.00		
334				0.5000 GX	2.00		
334				0.5000 GX	5.00		
325				0.4000 GX	4.00		
326				0.6000 GX	4.00		
361	0.3500 GX	1.00	4.00				
362	0.3500 GX	1.00	4.00				
335	0.1000 GX	1.00	4.00				
336	0.2000 GX	1.00	4.00				
305				0.9000 GX	3.00		

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
333				0.5000 GY	2.00		
333				0.5000 GY	5.00		
334				0.5000 GY	2.00		
334				0.5000 GY	5.00		
325				0.4000 GY	4.00		
326				0.6000 GY	4.00		
361	0.3500 GY	1.00	4.00				
362	0.3500 GY	1.00	4.00				
335	0.1000 GY	1.00	4.00				
336	0.2000 GY	1.00	4.00				
305				0.9000 GY	3.00		

MEMBER LOAD - UNIT MTON METE

MEMBER	UDL	L1	L2	CON	L	LIN1	LIN2
333				0.5000 GZ	2.00		
333				0.5000 GZ	5.00		
334				0.5000 GZ	2.00		
334				0.5000 GZ	5.00		
325				0.4000 GZ	4.00		
326				0.6000 GZ	4.00		
361	0.3500 GZ	1.00	4.00				
362	0.3500 GZ	1.00	4.00				
335	0.1000 GZ	1.00	4.00				
336	0.2000 GZ	1.00	4.00				
305				0.9000 GZ	3.00		

RESPONSE SPECTRUM VALUES - UNITS (METE SECOND)

DIRECTIONAL VALUES:

SCALE FACTOR = 9.81

X = 1.00 Y = 0.00 Z = 0.00

DAMPING FACTOR = 0.050

PERIOD VS. ACCELERATION

0.0010	0.0600
0.1000	0.0840
0.2000	0.1090
0.3000	0.1330
0.4000	0.1330
0.5000	0.1330
0.6000	0.1330
0.7000	0.1330
0.8000	0.1330
0.9000	0.1330

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1.0000	0.1330
1.1000	0.1330
1.2000	0.1330
1.3000	0.1330
1.4000	0.1330
1.5000	0.1330
1.6000	0.1280
1.7000	0.1230
1.8000	0.1180
1.9000	0.1140
2.0000	0.1100
2.1000	0.1070
2.2000	0.1030
2.3000	0.1000
2.4000	0.0970
2.5000	0.0950
2.6000	0.0920
2.7000	0.0900
2.8000	0.0880
2.9000	0.0860
3.0000	0.0840
3.1000	0.0820
3.2000	0.0800
3.3000	0.0790
3.4000	0.0770
3.5000	0.0760
3.6000	0.0740
3.7000	0.0730
3.8000	0.0720
3.9000	0.0710
4.0000	0.0690
4.1000	0.0680
4.2000	0.0670
4.3000	0.0660
4.4000	0.0650
4.5000	0.0640
4.6000	0.0630
4.7000	0.0620
4.8000	0.0610
4.9000	0.0610
5.0000	0.0600

***NOTE: MASSES DEFINED UNDER LOAD# 7 WILL FORM
THE FINAL MASS MATRIX FOR DYNAMIC ANALYSIS.

LOADING 8 LOADTYPE SEISMIC TITLE SISMO Z

RESPONSE SPECTRUM VALUES - UNITS (METE SECOND)

DIRECTIONAL VALUES:

SCALE FACTOR = 9.81

X = 0.00 Y = 0.00 Z = 1.00

DAMPING FACTOR = 0.050

PERIOD VS. ACCELERATION

0.0010	0.0600
0.1000	0.0840
0.2000	0.1090
0.3000	0.1330
0.4000	0.1330
0.5000	0.1330
0.6000	0.1330
0.7000	0.1330
0.8000	0.1330
0.9000	0.1330
1.0000	0.1330
1.1000	0.1330
1.2000	0.1330
1.3000	0.1330
1.4000	0.1330
1.5000	0.1330
1.6000	0.1280
1.7000	0.1230
1.8000	0.1180
1.9000	0.1140
2.0000	0.1100
2.1000	0.1070
2.2000	0.1030
2.3000	0.1000
2.4000	0.0970
2.5000	0.0950
2.6000	0.0920
2.7000	0.0900
2.8000	0.0880
2.9000	0.0860
3.0000	0.0840
3.1000	0.0820
3.2000	0.0800
3.3000	0.0790
3.4000	0.0770
3.5000	0.0760
3.6000	0.0740
3.7000	0.0730
3.8000	0.0720
3.9000	0.0710
4.0000	0.0690
4.1000	0.0680
4.2000	0.0670
4.3000	0.0660

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4.4000 0.0650
 4.5000 0.0640
 4.6000 0.0630
 4.7000 0.0620
 4.8000 0.0610
 4.9000 0.0610
 5.0000 0.0600

*WARNING- ZERO STIFFNESS IN DIRECTION 1 AT JOINT 112 EQN.NO. 709
 LOADS APPLIED OR DISTRIBUTED HERE FROM ELEMENTS WILL BE IGNORED.
 THIS MAY BE DUE TO ALL MEMBERS AT THIS JOINT BEING RELEASED OR
 EFFECTIVELY RELEASED IN THIS DIRECTION.

*WARNING- ZERO STIFFNESS IN DIRECTION 2 AT JOINT 112 EQN.NO. 710
 *WARNING- ZERO STIFFNESS IN DIRECTION 3 AT JOINT 112 EQN.NO. 711
 *WARNING- ZERO STIFFNESS IN DIRECTION 4 AT JOINT 112 EQN.NO. 712
 *WARNING- ZERO STIFFNESS IN DIRECTION 5 AT JOINT 112 EQN.NO. 713
 *WARNING- ZERO STIFFNESS IN DIRECTION 6 AT JOINT 112 EQN.NO. 714
 *WARNING- ZERO STIFFNESS IN DIRECTION 2 AT JOINT 195 EQN.NO. 716
 *WARNING- ZERO STIFFNESS IN DIRECTION 4 AT JOINT 195 EQN.NO. 718
 *WARNING- ZERO STIFFNESS IN DIRECTION 6 AT JOINT 195 EQN.NO. 720
 *WARNING- ZERO STIFFNESS IN DIRECTION 2 AT JOINT 196 EQN.NO. 722
 *WARNING- ZERO STIFFNESS IN DIRECTION 4 AT JOINT 196 EQN.NO. 724
 *WARNING- ZERO STIFFNESS IN DIRECTION 6 AT JOINT 196 EQN.NO. 726

***WARNING - INSTABILITY AT JOINT 116 DIRECTION = MZ
 PROBABLE CAUSE SINGULAR-ADDING WEAK SPRING
 K-MATRIX DIAG= 7.3584763E+01 L-MATRIX DIAG= 0.0000000E+00 EQN NO 447
 ***NOTE - VERY WEAK SPRING ADDED FOR STABILITY

NOTE STAAD DETECTS INSTABILITIES AS EXCESSIVE LOSS OF SIGNIFICANT DIGITS
 DURING DECOMPOSITION. WHEN A DECOMPOSED DIAGONAL IS LESS THAN THE
 BUILT-IN REDUCTION FACTOR TIMES THE ORIGINAL STIFFNESS MATRIX DIAGONAL,
 STAAD PRINTS A SINGULARITY NOTICE. THE BUILT-IN REDUCTION FACTOR
 IS 1.000E-09

THE ABOVE CONDITIONS COULD ALSO BE CAUSED BY VERY STIFF OR VERY WEAK
 ELEMENTS AS WELL AS TRUE SINGULARITIES.

EIGEN METHOD : SUBSPACE

 NUMBER OF MODES REQUESTED = 20
 NUMBER OF EXISTING MASSES IN THE MODEL = 337
 NUMBER OF MODES THAT WILL BE USED = 20

CALCULATED FREQUENCIES FOR LOAD CASE 7

MODE	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)	ACCURACY
1	1.464	0.68323	0.000E+00
2	1.927	0.51885	1.163E-15
3	2.075	0.48197	1.672E-16
4	2.707	0.36942	1.965E-16
5	2.896	0.34530	8.138E-14
6	3.229	0.30973	1.036E-08
7	3.242	0.30845	1.388E-09
8	3.278	0.30508	4.225E-12
9	3.353	0.29820	3.691E-13
10	3.363	0.29735	1.313E-11
11	3.472	0.28800	3.981E-09
12	3.491	0.28646	8.452E-10
13	3.599	0.27784	4.098E-09
14	3.643	0.27448	6.616E-08
15	3.705	0.26987	5.258E-11
16	3.712	0.26938	2.421E-09
17	4.094	0.24425	1.310E-12
18	4.411	0.22670	4.781E-11
19	4.569	0.21886	5.443E-08
20	4.903	0.20397	4.010E-10

The following Frequencies are estimates that were calculated. These are for information only and will not be used. Remaining values are either above the cut off mode/freq values or are of low accuracy. To use these frequencies, rerun with a higher cutoff mode (or mode + freq) value.

CALCULATED FREQUENCIES FOR LOAD CASE 7

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)	ACCURACY
21	5.008	0.19970	3.928E-08

RESPONSE LOAD CASE 7

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN MTON			GENERALIZED WEIGHT
	X	Y	Z	
1	5.104615E-02	9.421188E-03	5.766330E+02	2.432817E+02
2	8.277104E+01	3.025212E-03	5.410705E+00	1.451130E+02
3	4.796564E+02	1.940748E-02	5.768204E-01	2.646486E+02
4	1.609114E-01	1.960645E-02	4.882782E+01	1.125392E+02
5	1.009608E+00	2.735461E-03	3.603330E+00	7.779228E+01
6	2.470367E-03	3.411661E-07	1.372350E-01	6.878564E+01
7	8.387628E-03	4.946862E-02	2.789984E+00	7.184191E+01
8	1.349327E-01	2.404280E+01	2.534558E-03	2.960157E+01
9	2.488843E-03	2.846891E+01	2.049025E-04	1.118856E+01
10	6.957486E-03	1.494736E-03	2.280155E+00	1.683508E+02
11	6.089723E-03	1.534468E-02	5.490561E+00	4.335895E+01
12	7.227909E-03	5.632786E-02	7.465998E-01	1.877968E+01
13	2.433891E-01	5.343158E-03	3.173980E+00	3.974027E+01
14	8.724540E-02	5.328870E-03	2.375827E-01	3.384197E+01
15	6.547987E-02	1.093979E+02	3.648621E-02	3.937248E+01
16	2.213902E-01	2.084905E+00	1.267469E+00	3.145172E+01
17	2.020471E-02	7.596400E+00	3.947844E-02	3.388820E+01
18	2.891171E-02	2.479176E+00	1.458733E-05	4.359039E+01
19	4.790435E+00	2.216176E-05	2.127565E-01	1.763086E+02
20	1.202627E-02	2.600443E+00	1.387667E-02	4.858135E+01

SRSS MODAL COMBINATION METHOD USED.
 DYNAMIC WEIGHT X Y Z 6.663727E+02 6.663727E+02 6.663727E+02 MTON
 MISSING WEIGHT X Y Z -9.708610E+01 -4.895147E+02 -1.489215E+01 MTON
 MODAL WEIGHT X Y Z 5.692866E+02 1.768580E+02 6.514806E+02 MTON

MODE	ACCELERATION-G	DAMPING
----	-----	-----
1	0.13305	0.05000
2	0.13305	0.05000
3	0.13305	0.05000
4	0.13305	0.05000
5	0.13305	0.05000
6	0.13305	0.05000
7	0.13305	0.05000
8	0.13305	0.05000
9	0.13261	0.05000
10	0.13241	0.05000
11	0.13016	0.05000
12	0.12979	0.05000
13	0.12773	0.05000
14	0.12692	0.05000
15	0.12581	0.05000
16	0.12569	0.05000
17	0.11966	0.05000
18	0.11545	0.05000
19	0.11357	0.05000
20	0.10999	0.05000

MODAL BASE ACTIONS FORCES IN MTON LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN		
					MX	MY	MZ
1	0.683	0.01	-0.00	0.72	4.55	-12.21	-0.11
2	0.519	11.01	-0.07	-2.82	-17.56	-51.36	-74.07
3	0.482	63.82	-0.41	2.21	17.57	807.51	-396.25
4	0.369	0.02	-0.01	-0.37	0.01	7.25	-0.24
5	0.345	0.13	0.01	0.25	0.06	6.19	-0.48
6	0.310	0.00	-0.00	0.00	0.01	-0.04	-0.00
7	0.308	0.00	0.00	0.02	0.01	-0.25	0.04
8	0.305	0.02	0.24	-0.00	-2.64	0.23	4.12
9	0.298	0.00	0.04	0.00	-0.73	0.00	0.63
10	0.297	0.00	0.00	-0.02	-0.08	0.31	0.00
11	0.288	0.00	-0.00	0.02	0.17	-0.35	-0.03
12	0.286	0.00	-0.00	-0.01	0.46	0.14	-0.06
13	0.278	0.03	-0.00	-0.11	0.04	2.80	-0.18
14	0.274	0.01	0.00	0.02	-0.04	-0.19	0.02
15	0.270	0.01	0.34	0.01	-4.01	-0.09	5.91
16	0.269	0.03	0.09	-0.07	-1.03	2.45	1.41
17	0.244	0.00	0.05	0.00	0.10	-0.04	0.80
18	0.227	0.00	-0.03	-0.00	0.02	0.05	-0.57
19	0.219	0.54	0.00	0.11	0.63	-1.24	-0.94
20	0.204	0.00	-0.02	-0.00	0.06	0.04	-0.35

MODE	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN MTON		
	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.01	0.00	86.53	0.008	0.001	86.533	0.01	0.00	0.00
2	12.42	0.00	0.81	12.429	0.002	87.345	11.01	0.00	0.00
3	71.98	0.00	0.09	84.409	0.005	87.432	63.82	0.00	0.00
4	0.02	0.00	7.33	84.433	0.008	94.759	0.02	0.00	0.00
5	0.15	0.00	0.54	84.585	0.008	95.300	0.13	0.00	0.00
6	0.00	0.00	0.02	84.585	0.008	95.320	0.00	0.00	0.00
7	0.00	0.01	0.42	84.586	0.016	95.739	0.00	0.00	0.00
8	0.02	3.61	0.00	84.606	3.624	95.739	0.02	0.00	0.00
9	0.00	4.27	0.00	84.607	7.896	95.739	0.00	0.00	0.00
10	0.00	0.00	0.34	84.608	7.896	96.082	0.00	0.00	0.00
11	0.00	0.00	0.82	84.609	7.898	96.906	0.00	0.00	0.00
12	0.00	0.01	0.11	84.610	7.907	97.018	0.00	0.00	0.00
13	0.04	0.00	0.48	84.646	7.908	97.494	0.03	0.00	0.00
14	0.01	0.00	0.04	84.660	7.908	97.530	0.01	0.00	0.00
15	0.01	16.42	0.01	84.669	24.325	97.535	0.01	0.00	0.00
16	0.03	0.31	0.19	84.703	24.638	97.725	0.03	0.00	0.00
17	0.00	1.14	0.01	84.706	25.778	97.731	0.00	0.00	0.00
18	0.00	0.37	0.00	84.710	26.150	97.731	0.00	0.00	0.00
19	0.72	0.00	0.03	85.429	26.150	97.763	0.54	0.00	0.00
20	0.00	0.39	0.00	85.431	26.540	97.765	0.00	0.00	0.00
				TOTAL SRSS	SHEAR		64.76	0.00	0.00
				TOTAL 10PCT	SHEAR		74.83	0.00	0.00
				TOTAL ABS	SHEAR		75.64	0.00	0.00

RESPONSE LOAD CASE 8

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN MTON			GENERALIZED WEIGHT
	X	Y	Z	
1	5.104615E-02	9.421188E-03	5.766330E+02	2.432817E+02
2	8.277104E+01	3.025212E-03	5.410705E+00	1.451130E+02
3	4.796564E+02	1.940748E-02	5.768204E-01	2.646486E+02
4	1.609114E-01	1.960645E-02	4.882782E+01	1.125392E+02
5	1.009608E+00	2.735461E-03	3.603330E+00	7.779228E+01
6	2.470367E-03	3.411661E-07	1.372350E-01	6.878564E+01
7	8.387628E-03	4.946862E-02	2.789984E+00	7.184191E+01
8	1.349327E-01	2.404280E+01	2.534558E-03	2.960157E+01

STAAD SPACE

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9	2.488843E-03	2.846891E+01	2.049025E-04	1.118856E+01
10	6.957486E-03	1.494736E-03	2.280155E+00	1.683508E+02
11	6.089723E-03	1.534468E-02	5.490561E+00	4.335895E+01
12	7.227909E-03	5.632786E-02	7.465998E-01	1.877968E+01
13	2.433891E-01	5.343158E-03	3.173980E+00	3.974027E+01
14	8.724540E-02	5.328870E-03	2.375827E-01	3.384197E+01
15	6.547987E-02	1.093979E+02	3.648621E-02	3.937248E+01
16	2.213902E-01	2.084905E+00	1.267469E+00	3.145172E+01
17	2.020471E-02	7.596400E+00	3.947844E-02	3.388820E+01
18	2.891171E-02	2.479176E+00	1.458733E-05	4.359039E+01
19	4.790435E+00	2.216176E-05	2.127565E-01	1.763086E+02
20	1.202627E-02	2.600443E+00	1.387667E-02	4.858135E+01

SRSS MODAL COMBINATION METHOD USED.
 DYNAMIC WEIGHT X Y Z 6.663727E+02 6.663727E+02 6.663727E+02 MTON
 MISSING WEIGHT X Y Z -9.708610E+01 -4.895147E+02 -1.489215E+01 MTON
 MODAL WEIGHT X Y Z 5.692866E+02 1.768580E+02 6.514806E+02 MTON

MODE	ACCELERATION-G	DAMPING
----	-----	-----
1	0.13305	0.05000
2	0.13305	0.05000
3	0.13305	0.05000
4	0.13305	0.05000
5	0.13305	0.05000
6	0.13305	0.05000
7	0.13305	0.05000
8	0.13305	0.05000
9	0.13261	0.05000
10	0.13241	0.05000
11	0.13016	0.05000
12	0.12979	0.05000
13	0.12773	0.05000
14	0.12692	0.05000
15	0.12581	0.05000
16	0.12569	0.05000
17	0.11966	0.05000
18	0.11545	0.05000
19	0.11357	0.05000
20	0.10999	0.05000

MODAL BASE ACTIONS FORCES IN MTON LENGTH IN METE

MOMENTS ARE ABOUT THE ORIGIN

MODE	PERIOD	FX	FY	FZ	MX	MY	MZ
1	0.683	0.72	-0.31	76.72	483.11	-1298.08	-11.62
2	0.519	-2.82	0.02	0.72	4.49	13.13	18.94
3	0.482	2.21	-0.01	0.08	0.61	28.00	-13.74
4	0.369	-0.37	0.13	6.50	-0.13	-126.27	4.17
5	0.345	0.25	0.01	0.48	0.12	11.69	-0.91
6	0.310	0.00	-0.00	0.02	0.06	-0.27	-0.01
7	0.308	0.02	0.05	0.37	0.12	-4.54	0.80
8	0.305	-0.00	-0.03	0.00	0.36	-0.03	-0.57
9	0.298	0.00	0.01	0.00	-0.21	0.00	0.18
10	0.297	-0.02	-0.01	0.30	1.53	-5.56	-0.07
11	0.288	0.02	-0.04	0.71	5.21	-10.37	-0.83
12	0.286	-0.01	0.03	0.10	-4.69	-1.44	0.60
13	0.278	-0.11	0.02	0.41	-0.14	-10.12	0.64
14	0.274	0.02	0.00	0.03	-0.07	-0.31	0.04
15	0.270	0.01	0.25	0.00	-2.99	-0.07	4.41
16	0.269	-0.07	-0.20	0.16	2.47	-5.86	-3.37
17	0.244	0.00	0.07	0.00	0.14	-0.05	1.12
18	0.227	-0.00	0.00	0.00	-0.00	-0.00	0.01
19	0.219	0.11	0.00	0.02	0.13	-0.26	-0.20
20	0.204	-0.00	0.02	0.00	-0.07	-0.04	0.37

MASS PARTICIPATION FACTORS IN PERCENT

BASE SHEAR IN MTON

MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.01	0.00	86.53	0.008	0.001	86.533	0.00	0.00	76.72
2	12.42	0.00	0.81	12.429	0.002	87.345	0.00	0.00	0.72
3	71.98	0.00	0.09	84.409	0.005	87.432	0.00	0.00	0.08
4	0.02	0.00	7.33	84.433	0.008	94.759	0.00	0.00	6.50
5	0.15	0.00	0.54	84.585	0.008	95.300	0.00	0.00	0.48
6	0.00	0.00	0.02	84.585	0.008	95.320	0.00	0.00	0.02
7	0.00	0.01	0.42	84.586	0.016	95.739	0.00	0.00	0.37
8	0.02	3.61	0.00	84.606	3.624	95.739	0.00	0.00	0.00
9	0.00	4.27	0.00	84.607	7.896	95.739	0.00	0.00	0.00
10	0.00	0.00	0.34	84.608	7.896	96.082	0.00	0.00	0.30
11	0.00	0.00	0.82	84.609	7.898	96.906	0.00	0.00	0.71
12	0.00	0.01	0.11	84.610	7.907	97.018	0.00	0.00	0.10
13	0.04	0.00	0.48	84.646	7.908	97.494	0.00	0.00	0.41
14	0.01	0.00	0.04	84.660	7.908	97.530	0.00	0.00	0.03
15	0.01	16.42	0.01	84.669	24.325	97.535	0.00	0.00	0.00
16	0.03	0.31	0.19	84.703	24.638	97.725	0.00	0.00	0.16
17	0.00	1.14	0.01	84.706	25.778	97.731	0.00	0.00	0.00
18	0.00	0.37	0.00	84.710	26.150	97.731	0.00	0.00	0.00
19	0.72	0.00	0.03	85.429	26.150	97.763	0.00	0.00	0.02
20	0.00	0.39	0.00	85.431	26.540	97.765	0.00	0.00	0.00
TOTAL SRSS SHEAR							0.00	0.00	77.00
TOTAL 10PCT SHEAR							0.00	0.00	77.06
TOTAL ABS SHEAR							0.00	0.00	86.62

FOR LOADING - 1

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
1	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
2	0.00000E+00	-7.36592E-01	0.00000E+00	1.60711E-01	0.00000E+00	-1.78568E-02
3	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
4	0.00000E+00	-7.90162E-01	0.00000E+00	1.60711E-01	0.00000E+00	0.00000E+00
5	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
6	0.00000E+00	-7.90162E-01	0.00000E+00	1.60711E-01	0.00000E+00	0.00000E+00
7	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
8	0.00000E+00	-7.76769E-01	0.00000E+00	4.01777E-02	0.00000E+00	7.25431E-02
9	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
10	0.00000E+00	-7.36592E-01	0.00000E+00	1.60711E-01	0.00000E+00	1.78568E-02
11	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
12	0.00000E+00	-8.97303E-01	0.00000E+00	0.00000E+00	0.00000E+00	-1.78568E-02
13	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
14	0.00000E+00	-9.50873E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
15	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
16	0.00000E+00	-9.98379E-01	0.00000E+00	0.00000E+00	0.00000E+00	-1.58352E-02
17	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
18	0.00000E+00	-8.77846E-01	0.00000E+00	1.50667E-01	0.00000E+00	1.58353E-02
19	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
20	0.00000E+00	-8.97303E-01	0.00000E+00	0.00000E+00	0.00000E+00	1.78568E-02
21	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
22	0.00000E+00	-8.97303E-01	0.00000E+00	3.29626E-08	0.00000E+00	-1.78568E-02
23	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
24	0.00000E+00	-8.97303E-01	0.00000E+00	3.29626E-08	0.00000E+00	1.78568E-02
25	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
26	0.00000E+00	-9.44808E-01	0.00000E+00	3.29626E-08	0.00000E+00	-3.36920E-02
27	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
28	0.00000E+00	-9.98379E-01	0.00000E+00	3.29626E-08	0.00000E+00	1.58353E-02
29	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
30	0.00000E+00	-8.97303E-01	0.00000E+00	3.29626E-08	0.00000E+00	1.78568E-02
31	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
32	0.00000E+00	-7.42656E-01	0.00000E+00	-1.60711E-01	0.00000E+00	-1.98783E-02
33	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
34	0.00000E+00	-9.75131E-01	0.00000E+00	1.81936E-02	0.00000E+00	2.02152E-03
35	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
36	0.00000E+00	-9.98379E-01	0.00000E+00	-5.49376E-08	0.00000E+00	-1.58352E-02
37	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
38	0.00000E+00	-9.98379E-01	0.00000E+00	-5.49376E-08	0.00000E+00	1.58353E-02
39	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
40	0.00000E+00	-8.97303E-01	0.00000E+00	-5.49376E-08	0.00000E+00	1.78568E-02
41	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
42	0.00000E+00	-4.99695E-01	0.00000E+00	-1.78905E-01	0.00000E+00	-1.98783E-02
43	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
44	0.00000E+00	-5.41136E-01	0.00000E+00	-1.60711E-01	0.00000E+00	0.00000E+00
45	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
46	0.00000E+00	-5.41136E-01	0.00000E+00	-1.60711E-01	0.00000E+00	0.00000E+00
47	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
48	0.00000E+00	-4.81501E-01	0.00000E+00	-1.60711E-01	0.00000E+00	1.98783E-02
49	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	0.00000E+00
50	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	0.00000E+00
51	0.00000E+00	-3.75498E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
52	0.00000E+00	-3.75498E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
53	0.00000E+00	-3.75498E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
54	0.00000E+00	-3.75498E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
55	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
56	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
57	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-6.86720E-09
58	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	1.23610E-08
59	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-6.86720E-09
60	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	1.23610E-08
61	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-6.86720E-09
62	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	1.23610E-08
63	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-6.86720E-09
64	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	1.51078E-08
65	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-1.23610E-08
66	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	0.00000E+00
67	0.00000E+00	-7.94963E-01	0.00000E+00	1.78905E-01	0.00000E+00	7.81235E-03
70	0.00000E+00	-4.70509E-01	0.00000E+00	0.00000E+00	0.00000E+00	-2.47219E-08

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
71	0.00000E+00	-4.70509E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
72	0.00000E+00	-4.89966E-01	0.00000E+00	-4.47261E-02	0.00000E+00	1.47403E-02
73	0.00000E+00	-2.60524E-01	0.00000E+00	1.34178E-01	0.00000E+00	-3.15862E-02
74	0.00000E+00	-3.36331E-01	0.00000E+00	1.34178E-01	0.00000E+00	-5.21907E-08
75	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	-2.47219E-08
76	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
77	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
78	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	5.21907E-08
79	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	-5.21907E-08
80	0.00000E+00	-4.70509E-01	0.00000E+00	-4.39501E-08	0.00000E+00	-2.47219E-08
81	0.00000E+00	-4.70509E-01	0.00000E+00	-4.39501E-08	0.00000E+00	0.00000E+00
82	0.00000E+00	-4.70509E-01	0.00000E+00	-4.39501E-08	0.00000E+00	0.00000E+00
83	0.00000E+00	-4.70509E-01	0.00000E+00	-4.39501E-08	0.00000E+00	5.21907E-08
84	0.00000E+00	-4.70509E-01	0.00000E+00	-4.39501E-08	0.00000E+00	-5.21907E-08
85	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-1.51078E-08
86	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
87	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
88	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	3.15891E-08
89	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-3.15891E-08
90	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	2.74688E-08
91	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-5.49376E-08
92	0.00000E+00	-3.75498E-01	0.00000E+00	0.00000E+00	0.00000E+00	2.74688E-08
93	0.00000E+00	-3.75498E-01	0.00000E+00	0.00000E+00	0.00000E+00	-5.49376E-08
94	0.00000E+00	-3.75498E-01	0.00000E+00	2.19750E-08	0.00000E+00	2.74688E-08
95	0.00000E+00	-3.75498E-01	0.00000E+00	2.19750E-08	0.00000E+00	-5.49376E-08
96	0.00000E+00	-3.75498E-01	0.00000E+00	-4.39501E-08	0.00000E+00	2.74688E-08
97	0.00000E+00	-3.75498E-01	0.00000E+00	-4.39501E-08	0.00000E+00	-5.49376E-08
98	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	3.15891E-08
99	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-6.18048E-08
108	0.00000E+00	-2.21167E-01	0.00000E+00	-3.01333E-02	0.00000E+00	0.00000E+00
113	0.00000E+00	-2.61155E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
114	0.00000E+00	-2.27800E-01	0.00000E+00	3.35446E-02	0.00000E+00	-8.03555E-02
115	0.00000E+00	-1.34621E-01	0.00000E+00	-8.38615E-03	0.00000E+00	1.68460E-02
116	0.00000E+00	-2.01268E-01	0.00000E+00	-2.51585E-02	0.00000E+00	0.00000E+00
117	0.00000E+00	-1.80989E-01	0.00000E+00	-3.43360E-09	0.00000E+00	0.00000E+00
118	0.00000E+00	-1.67723E-01	0.00000E+00	-2.74688E-09	0.00000E+00	0.00000E+00
119	0.00000E+00	-4.75437E-01	0.00000E+00	1.60711E-01	0.00000E+00	-1.78568E-02
120	0.00000E+00	-5.29007E-01	0.00000E+00	1.60711E-01	0.00000E+00	0.00000E+00
121	0.00000E+00	-5.29007E-01	0.00000E+00	1.60711E-01	0.00000E+00	0.00000E+00
122	0.00000E+00	-5.29007E-01	0.00000E+00	1.60711E-01	0.00000E+00	0.00000E+00
123	0.00000E+00	-4.75437E-01	0.00000E+00	1.60711E-01	0.00000E+00	1.78568E-02
124	0.00000E+00	-6.36147E-01	0.00000E+00	0.00000E+00	0.00000E+00	-1.78568E-02
125	0.00000E+00	-6.89718E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
126	0.00000E+00	-7.37223E-01	0.00000E+00	0.00000E+00	0.00000E+00	-1.58352E-02
127	0.00000E+00	-7.43288E-01	0.00000E+00	0.00000E+00	0.00000E+00	1.38137E-02
128	0.00000E+00	-6.42212E-01	0.00000E+00	0.00000E+00	0.00000E+00	1.98783E-02
129	0.00000E+00	-6.36147E-01	0.00000E+00	3.29626E-08	0.00000E+00	-1.78568E-02
130	0.00000E+00	-6.36147E-01	0.00000E+00	3.29626E-08	0.00000E+00	1.78568E-02
131	0.00000E+00	-6.83653E-01	0.00000E+00	3.29626E-08	0.00000E+00	-3.36920E-02
132	0.00000E+00	-7.43288E-01	0.00000E+00	3.29626E-08	0.00000E+00	1.38137E-02
133	0.00000E+00	-6.42212E-01	0.00000E+00	3.29626E-08	0.00000E+00	1.98783E-02
134	0.00000E+00	-4.75437E-01	0.00000E+00	-1.60711E-01	0.00000E+00	-1.78568E-02
135	0.00000E+00	-5.29007E-01	0.00000E+00	-1.60711E-01	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
136	0.00000E+00	-5.35071E-01	0.00000E+00	-1.60711E-01	0.00000E+00	-2.02152E-03
137	0.00000E+00	-5.35071E-01	0.00000E+00	-1.60711E-01	0.00000E+00	2.02152E-03
138	0.00000E+00	-4.75437E-01	0.00000E+00	-1.60711E-01	0.00000E+00	1.78568E-02
143	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	0.00000E+00
144	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	0.00000E+00
145	0.00000E+00	-3.75498E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
146	0.00000E+00	-3.75498E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
147	0.00000E+00	-3.75498E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
148	0.00000E+00	-3.75498E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
149	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
150	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
151	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-6.86720E-09
152	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	1.23610E-08
153	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-6.86720E-09
154	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	1.23610E-08
155	0.00000E+00	-1.07141E-01	0.00000E+00	0.00000E+00	0.00000E+00	-6.86720E-09
156	0.00000E+00	-1.07141E-01	0.00000E+00	0.00000E+00	0.00000E+00	1.23610E-08
159	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-1.23610E-08
160	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	0.00000E+00
161	0.00000E+00	-5.47201E-01	0.00000E+00	1.78905E-01	0.00000E+00	0.00000E+00
162	0.00000E+00	-4.70509E-01	0.00000E+00	0.00000E+00	0.00000E+00	-2.47219E-08
163	0.00000E+00	-4.70509E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
164	0.00000E+00	-5.15235E-01	0.00000E+00	-4.47261E-02	0.00000E+00	0.00000E+00
165	0.00000E+00	-4.70509E-01	0.00000E+00	0.00000E+00	0.00000E+00	5.21907E-08
166	0.00000E+00	-4.70509E-01	0.00000E+00	0.00000E+00	0.00000E+00	-5.21907E-08
167	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	-2.47219E-08
168	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
169	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
170	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	5.21907E-08
171	0.00000E+00	-4.70509E-01	0.00000E+00	2.19750E-08	0.00000E+00	-5.21907E-08
172	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-1.51078E-08
173	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
174	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	0.00000E+00
175	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	3.15891E-08
176	0.00000E+00	-2.53448E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-3.15891E-08
182	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	2.74688E-08
183	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-5.49376E-08
184	0.00000E+00	-3.87627E-01	0.00000E+00	0.00000E+00	0.00000E+00	3.15891E-08
185	0.00000E+00	-3.87627E-01	0.00000E+00	0.00000E+00	0.00000E+00	-6.18048E-08
186	0.00000E+00	-3.87627E-01	0.00000E+00	2.19750E-08	0.00000E+00	3.15891E-08
187	0.00000E+00	-3.87627E-01	0.00000E+00	2.19750E-08	0.00000E+00	-6.18048E-08
188	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	2.74688E-08
189	0.00000E+00	-2.41319E-01	0.00000E+00	-1.34178E-01	0.00000E+00	-5.49376E-08
193	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	2.74688E-08
194	0.00000E+00	-2.41319E-01	0.00000E+00	1.34178E-01	0.00000E+00	-2.74688E-08

STATIC LOAD/REACTION/EQUILIBRIUM SUMMARY FOR CASE NO. 1
 LOADTYPE DEAD TITLE PP

CENTER OF FORCE BASED ON Y FORCES ONLY (METE).
 (FORCES IN NON-GLOBAL DIRECTIONS WILL INVALIDATE RESULTS)

X = 0.155455175E+02
 Y = 0.496145036E+01
 Z = 0.102066687E+02

***TOTAL APPLIED LOAD (MTON METE) SUMMARY (LOADING 1)

SUMMATION FORCE-X = 0.00
 SUMMATION FORCE-Y = -69.96
 SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-

MX= 714.07 MY= 0.00 MZ= -1087.59

***TOTAL REACTION LOAD(MTON METE) SUMMARY (LOADING 1)

SUMMATION FORCE-X = -0.00
 SUMMATION FORCE-Y = 69.96
 SUMMATION FORCE-Z = -0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-

MX= -714.07 MY= -0.00 MZ= 1087.59

MAXIMUM DISPLACEMENTS (CM /RADIANS) (LOADING 1)

MAXIMUMS AT NODE
 X = 2.84747E-03 119
 Y = -1.89657E-01 169
 Z = 6.91822E-03 123
 RX= 4.85144E-04 114
 RY= -8.11534E-07 151
 RZ= -4.17132E-04 167

EXTERNAL AND INTERNAL JOINT LOAD SUMMARY (MTON METE)-

JT	EXT FX/	EXT FY/	EXT FZ/	EXT MX/	EXT MY/	EXT MZ/	
	INT FX	INT FY	INT FZ	INT MX	INT MY	INT MZ	
							SUPPORT=1
1	0.00	-0.26	0.00	0.00	0.00	0.00	
	-0.03	-1.58	-0.02	-0.02	-0.00	0.03	111111
3	0.00	-0.26	0.00	0.00	0.00	0.00	
	-0.00	-2.23	-0.02	-0.02	-0.00	-0.01	111111
5	0.00	-0.26	0.00	0.00	0.00	0.00	
	0.00	-2.22	-0.02	-0.02	-0.00	-0.01	111111
7	0.00	-0.26	0.00	0.00	0.00	0.00	
	-0.01	-2.18	-0.04	-0.04	-0.00	0.00	111111
9	0.00	-0.26	0.00	0.00	0.00	0.00	
	0.04	-1.60	-0.02	-0.02	-0.00	-0.05	111111
11	0.00	-0.26	0.00	0.00	0.00	0.00	
	-0.06	-2.33	0.00	0.00	-0.00	0.07	111111
12	0.00	-0.90	0.00	0.00	0.00	-0.02	
	-0.14	0.90	0.02	0.00	-0.00	0.02	000000

STAAD SPACE							-- PAGE NO. 46	
13	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.03	-2.84	0.00	0.00	-0.00	-0.05	111111	
14	0.00	-0.95	0.00	0.00	0.00	0.00		
	0.10	0.95	0.02	0.00	-0.00	-0.00	000000	
15	0.00	-0.26	0.00	0.00	0.00	0.00		
	-0.26	-4.66	0.00	0.00	-0.00	0.29	111111	
16	0.00	-1.00	0.00	0.00	0.00	-0.02		
	-0.46	1.00	0.02	-0.00	-0.00	0.02	000000	
17	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.22	-5.08	0.02	0.03	-0.00	-0.26	111111	
18	0.00	-0.88	0.00	0.15	0.00	0.02		
	0.42	0.88	0.02	-0.15	-0.00	-0.02	000000	
19	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.06	-2.22	0.00	0.01	-0.00	-0.08	111111	
21	0.00	-0.26	0.00	0.00	0.00	0.00		
	-0.06	-2.34	-0.00	0.00	-0.00	0.07	111111	
22	0.00	-0.90	0.00	0.00	0.00	-0.02		
	-0.14	0.90	0.01	-0.00	-0.00	0.02	000000	
23	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.06	-2.35	0.00	0.01	-0.00	-0.08	111111	
24	0.00	-0.90	0.00	0.00	0.00	0.02		
	0.15	0.90	0.01	-0.00	-0.00	-0.02	000000	
25	0.00	-0.26	0.00	0.00	0.00	0.00		
	-0.32	-4.05	0.00	0.01	-0.00	0.37	111111	
26	0.00	-0.94	0.00	0.00	0.00	-0.03		
	-0.70	0.94	0.01	-0.00	-0.00	0.03	000000	
27	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.26	-5.27	0.00	0.01	-0.00	-0.31	111111	
28	0.00	-1.00	0.00	0.00	0.00	0.02		
	0.51	1.00	0.02	-0.00	-0.00	-0.02	000000	
29	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.05	-2.14	0.00	0.01	-0.00	-0.06	111111	
31	0.00	-0.26	0.00	0.00	0.00	0.00		
	-0.04	-1.64	0.02	0.02	-0.00	0.04	111111	
33	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.01	-2.22	-0.01	-0.01	-0.00	-0.01	111111	
35	0.00	-0.26	0.00	0.00	0.00	0.00		
	-0.33	-3.82	-0.01	-0.01	-0.00	0.38	111111	
36	0.00	-1.00	0.00	-0.00	0.00	-0.02		
	-0.21	1.00	0.05	0.00	-0.00	0.02	000000	
37	0.00	-0.26	0.00	0.00	0.00	0.00		
	0.31	-4.12	-0.01	-0.00	-0.00	-0.36	111111	
38	0.00	-1.00	0.00	-0.00	0.00	0.02		
	0.19	1.00	0.05	0.00	-0.00	-0.02	000000	
39	0.00	-0.26	0.00	0.00	0.00	0.00		

STAAD SPACE

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47	0.00	-0.26	0.00	0.00	0.00	0.00	
	0.06	-0.63	0.04	0.06	-0.00	-0.07	111111
67	0.00	-0.79	0.00	0.18	0.00	0.01	
	0.01	0.79	-0.16	-0.18	-0.00	-0.01	000000
113	0.00	-0.26	0.00	0.00	0.00	0.00	
	0.00	-2.53	-0.08	-0.10	-0.00	-0.01	111111
119	0.00	-0.48	0.00	0.16	0.00	-0.02	
	0.10	0.48	0.04	-0.16	0.00	0.02	000000
123	0.00	-0.48	0.00	0.16	0.00	0.02	
	-0.12	0.48	0.03	-0.16	0.00	-0.02	000000
124	0.00	-0.64	0.00	0.00	0.00	-0.02	
	0.20	0.64	-0.02	0.00	0.00	0.02	000000
125	0.00	-0.69	0.00	0.00	0.00	0.00	
	-0.13	0.69	-0.02	-0.00	0.00	0.00	000000
126	0.00	-0.74	0.00	0.00	0.00	-0.02	
	0.71	0.74	-0.02	0.00	0.00	0.02	000000
127	0.00	-0.74	0.00	0.00	0.00	0.01	
	-0.64	0.74	-0.04	0.00	0.00	-0.01	000000
128	0.00	-0.64	0.00	0.00	0.00	0.02	
	-0.16	0.64	-0.03	0.00	0.00	-0.02	000000
129	0.00	-0.64	0.00	0.00	0.00	-0.02	
	0.21	0.64	-0.01	-0.00	0.00	0.02	000000
130	0.00	-0.64	0.00	0.00	0.00	0.02	
	-0.22	0.64	-0.01	-0.00	0.00	-0.02	000000
131	0.00	-0.68	0.00	0.00	0.00	-0.03	
	1.02	0.68	-0.02	-0.00	0.00	0.03	000000
132	0.00	-0.74	0.00	0.00	0.00	0.01	
	-0.78	0.74	-0.02	-0.00	0.00	-0.01	000000
133	0.00	-0.64	0.00	0.00	0.00	0.02	
	-0.14	0.64	-0.02	-0.00	0.00	-0.02	000000
134	0.00	-0.48	0.00	-0.16	0.00	-0.02	
	0.11	0.48	-0.06	0.16	0.00	0.02	000000
136	0.00	-0.54	0.00	-0.16	0.00	-0.00	
	0.54	0.54	-0.04	0.16	0.00	0.00	000000
137	0.00	-0.54	0.00	-0.16	0.00	0.00	
	-0.50	0.54	-0.05	0.16	0.00	-0.00	000000
138	0.00	-0.48	0.00	-0.16	0.00	0.02	
	-0.11	0.48	-0.05	0.16	0.00	-0.02	000000
161	0.00	-0.55	0.00	0.18	0.00	0.00	
	-0.01	0.55	0.24	-0.18	0.00	0.00	000000

FOR LOADING - 2

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
2	0.00000E+00	-1.20000E+00	0.00000E+00	1.20000E+00	0.00000E+00	0.00000E+00
4	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
6	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
8	0.00000E+00	-6.00000E-01	0.00000E+00	3.00000E-01	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
26	0.00000E+00	-2.40000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
28	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
30	0.00000E+00	-2.40000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
32	0.00000E+00	-1.20000E+00	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00
34	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
36	0.00000E+00	-3.60000E+00	0.00000E+00	1.20000E+00	0.00000E+00	0.00000E+00
38	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
40	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
42	0.00000E+00	-1.20000E+00	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00
44	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
46	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
48	0.00000E+00	-1.20000E+00	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00
49	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
50	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
51	0.00000E+00	-4.80000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
52	0.00000E+00	-4.80000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
53	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
54	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
55	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
56	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
57	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
58	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
59	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
60	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
61	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
62	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
63	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
64	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
65	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
66	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
67	0.00000E+00	-2.10000E+00	0.00000E+00	2.10000E+00	0.00000E+00	0.00000E+00
70	0.00000E+00	-4.80000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
71	0.00000E+00	-4.80000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
72	0.00000E+00	-4.50000E+00	0.00000E+00	3.00000E-01	0.00000E+00	0.00000E+00
73	0.00000E+00	-2.77500E+00	0.00000E+00	2.40000E+00	0.00000E+00	-9.37499E-02
74	0.00000E+00	-3.00000E+00	0.00000E+00	2.40000E+00	0.00000E+00	-1.64813E-07
75	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
76	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
77	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
78	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
79	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
80	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
81	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
82	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
83	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
84	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
85	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
86	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
87	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
88	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
89	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
90	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00
91	0.00000E+00	-2.40000E+00	0.00000E+00	2.40000E+00	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
92	0.00000E+00	-4.80000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
93	0.00000E+00	-4.80000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
94	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
95	0.00000E+00	-4.80000E+00	0.00000E+00	7.03201E-07	0.00000E+00	0.00000E+00
96	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
97	0.00000E+00	-4.80000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
98	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
99	0.00000E+00	-2.40000E+00	0.00000E+00	-2.40000E+00	0.00000E+00	0.00000E+00
108	0.00000E+00	-9.00000E-01	0.00000E+00	-2.25000E-01	0.00000E+00	0.00000E+00
114	0.00000E+00	-4.50000E-01	0.00000E+00	2.25000E-01	0.00000E+00	0.00000E+00
115	0.00000E+00	-3.00000E-01	0.00000E+00	-5.62500E-02	0.00000E+00	-6.25001E-03
116	0.00000E+00	-6.75000E-01	0.00000E+00	-1.68750E-01	0.00000E+00	0.00000E+00
117	0.00000E+00	-1.27500E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
118	0.00000E+00	-1.12500E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
119	0.00000E+00	-1.41000E+00	0.00000E+00	1.41000E+00	0.00000E+00	0.00000E+00
120	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
121	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
122	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
123	0.00000E+00	-1.41000E+00	0.00000E+00	1.41000E+00	0.00000E+00	0.00000E+00
124	0.00000E+00	-2.82000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
125	0.00000E+00	-4.23000E+00	0.00000E+00	-1.41000E+00	0.00000E+00	0.00000E+00
126	0.00000E+00	-4.23000E+00	0.00000E+00	-1.41000E+00	0.00000E+00	0.00000E+00
127	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
128	0.00000E+00	-2.82000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
129	0.00000E+00	-2.82000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
130	0.00000E+00	-2.82000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
131	0.00000E+00	-2.82000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
132	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
133	0.00000E+00	-2.82000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
134	0.00000E+00	-1.41000E+00	0.00000E+00	-1.41000E+00	0.00000E+00	0.00000E+00
135	0.00000E+00	-1.41000E+00	0.00000E+00	-1.41000E+00	0.00000E+00	0.00000E+00
136	0.00000E+00	-1.41000E+00	0.00000E+00	-1.41000E+00	0.00000E+00	0.00000E+00
137	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
138	0.00000E+00	-1.41000E+00	0.00000E+00	-1.41000E+00	0.00000E+00	0.00000E+00
143	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
144	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
145	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
146	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
147	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
148	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
149	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
150	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
151	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
152	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
153	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
154	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
159	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
160	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
161	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
162	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
163	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
164	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
165	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
166	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
167	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
168	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
169	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
170	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
171	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
172	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
173	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
174	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
175	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
176	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
182	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
183	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
184	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
185	0.00000E+00	-5.64000E+00	0.00000E+00	3.51601E-07	0.00000E+00	0.00000E+00
186	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
187	0.00000E+00	-5.64000E+00	0.00000E+00	5.27401E-07	0.00000E+00	0.00000E+00
188	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
189	0.00000E+00	-2.82000E+00	0.00000E+00	-2.82000E+00	0.00000E+00	0.00000E+00
193	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00
194	0.00000E+00	-2.82000E+00	0.00000E+00	2.82000E+00	0.00000E+00	0.00000E+00

STATIC LOAD/REACTION/EQUILIBRIUM SUMMARY FOR CASE NO. 2
LOADTYPE DEAD TITLE CM

CENTER OF FORCE BASED ON Y FORCES ONLY (METE).
(FORCES IN NON-GLOBAL DIRECTIONS WILL INVALIDATE RESULTS)

X = 0.160816909E+02
Y = 0.577851787E+01
Z = 0.102218170E+02

***TOTAL APPLIED LOAD (MTON METE) SUMMARY (LOADING 2)
SUMMATION FORCE-X = 0.00
SUMMATION FORCE-Y = -456.66
SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-
MX= 4667.89 MY= 0.00 MZ= -7343.86

***TOTAL REACTION LOAD(MTON METE) SUMMARY (LOADING 2)
SUMMATION FORCE-X = -0.00
SUMMATION FORCE-Y = 456.66
SUMMATION FORCE-Z = -0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-
MX= -4667.89 MY= -0.00 MZ= 7343.86

MAXIMUM DISPLACEMENTS (CM /RADIANS) (LOADING 2)
 MAXIMUMS AT NODE
 X = 3.10932E-02 194
 Y = -2.31690E+00 169
 Z = 7.56094E-02 123
 RX= 4.88899E-03 160
 RY= -8.07544E-06 156
 RZ= -5.15850E-03 167

EXTERNAL AND INTERNAL JOINT LOAD SUMMARY (MTON METE)-

JT	EXT FX/ INT FX	EXT FY/ INT FY	EXT FZ/ INT FZ	EXT MX/ INT MX	EXT MY/ INT MY	EXT MZ/ INT MZ	
							SUPPORT=1
1	0.00 -0.27	0.00 -6.27	0.00 -0.15	0.00 -0.18	0.00 -0.00	0.00 0.22	111111
2	0.00 -0.68	-1.20 1.20	0.00 -0.13	1.20 -1.20	0.00 -0.00	0.00 -0.00	000000
3	0.00 -0.04	0.00 -14.58	0.00 -0.27	0.00 -0.33	0.00 -0.00	0.00 -0.04	111111
4	0.00 0.03	-2.40 2.40	0.00 -0.44	2.40 -2.40	0.00 -0.00	0.00 0.00	000000
5	0.00 0.06	0.00 -14.56	0.00 -0.28	0.00 -0.33	0.00 -0.00	0.00 -0.16	111111
6	0.00 0.27	-2.40 2.40	0.00 -0.47	2.40 -2.40	0.00 -0.00	0.00 0.00	000000
7	0.00 -0.33	0.00 -10.66	0.00 -0.12	0.00 -0.11	0.00 -0.00	0.00 0.30	111111
8	0.00 0.21	-0.60 0.60	0.00 -0.48	0.30 -0.30	0.00 -0.00	0.00 -0.00	000000
9	0.00 0.30	0.00 -6.45	0.00 -0.14	0.00 -0.13	0.00 -0.00	0.00 -0.44	111111
10	0.00 0.84	-1.20 1.20	0.00 -0.09	1.20 -1.20	0.00 -0.00	0.00 0.00	000000
11	0.00 -0.73	0.00 -16.57	0.00 -0.02	0.00 0.00	0.00 -0.00	0.00 0.77	111111
12	0.00 -2.16	-2.40 2.40	0.00 0.24	0.00 -0.00	0.00 -0.00	0.00 0.00	000000
13	0.00 0.43	0.00 -23.76	0.00 0.10	0.00 0.15	0.00 -0.00	0.00 -0.57	111111
14	0.00 1.72	-3.60 3.60	0.00 0.50	-1.20 1.20	0.00 -0.00	0.00 -0.00	000000
15	0.00 -2.13	0.00 -40.10	0.00 0.09	0.00 0.15	0.00 -0.00	0.00 2.40	111111
16	0.00 -5.87	-3.60 3.60	0.00 0.49	-1.20 1.20	0.00 -0.00	0.00 0.00	000000
17	0.00	0.00	0.00	0.00	0.00	0.00	

STAAD SPACE						-- PAGE NO. 52	
21	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.73	-16.67	-0.02	-0.00	-0.00	0.79	111111
22	0.00	-2.40	0.00	0.00	0.00	0.00	
	-2.23	2.40	0.17	-0.00	-0.00	-0.00	000000
23	0.00	0.00	0.00	0.00	0.00	0.00	
	0.73	-16.61	0.00	0.03	-0.00	-0.90	111111
24	0.00	-2.40	0.00	0.00	0.00	0.00	
	2.38	2.40	0.14	-0.00	-0.00	-0.00	000000
25	0.00	0.00	0.00	0.00	0.00	0.00	
	-2.87	-32.10	0.02	0.06	-0.00	3.27	111111
26	0.00	-2.40	0.00	0.00	0.00	0.00	
	-8.86	2.40	0.15	-0.00	-0.00	-0.00	000000
27	0.00	0.00	0.00	0.00	0.00	0.00	
	2.37	-52.73	0.04	0.10	-0.00	-2.81	111111
28	0.00	-4.80	0.00	0.00	0.00	0.00	
	6.18	4.80	0.15	-0.00	-0.00	-0.00	000000
29	0.00	0.00	0.00	0.00	0.00	0.00	
	0.60	-13.91	0.02	0.07	-0.00	-0.76	111111
30	0.00	-2.40	0.00	0.00	0.00	0.00	
	1.42	2.40	0.20	-0.00	-0.00	0.00	000000
31	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.24	-6.75	0.09	0.13	-0.00	0.24	111111
32	0.00	-1.20	0.00	-1.20	0.00	0.00	
	-0.83	1.20	0.46	1.20	-0.00	-0.00	000000
33	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.04	-9.61	-0.08	-0.08	-0.00	-0.00	111111
34	0.00	-2.40	0.00	0.00	0.00	0.00	
	1.06	2.40	0.52	0.00	-0.00	-0.00	000000
35	0.00	0.00	0.00	0.00	0.00	0.00	
	-3.45	-27.77	-0.24	-0.28	-0.00	3.96	111111
36	0.00	-3.60	0.00	1.20	0.00	0.00	
	-2.51	3.60	0.58	-1.20	-0.00	0.00	000000
37	0.00	0.00	0.00	0.00	0.00	0.00	
	3.03	-35.72	-0.13	-0.13	-0.00	-3.56	111111
38	0.00	-4.80	0.00	0.00	0.00	0.00	
	1.95	4.80	0.89	0.00	-0.00	-0.00	000000
39	0.00	0.00	0.00	0.00	0.00	0.00	
	0.87	-10.40	-0.07	-0.04	-0.00	-1.05	111111
40	0.00	-2.40	0.00	0.00	0.00	0.00	
	0.46	2.40	0.53	0.00	-0.00	-0.00	000000
41	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.59	-2.90	0.30	0.41	-0.00	0.66	111111
42	0.00	-1.20	0.00	-1.20	0.00	0.00	
	0.59	1.20	-0.30	1.20	0.00	-0.00	000000
43	0.00	0.00	0.00	0.00	0.00	0.00	

STAAD SPACE

-- PAGE NO. 53

67	0.00	-2.10	0.00	2.10	0.00	0.00	
	0.04	2.10	-2.12	-2.10	-0.00	0.00	000000
113	0.00	0.00	0.00	0.00	0.00	0.00	
	0.30	-14.44	-0.62	-0.75	-0.00	-0.43	111111
119	0.00	-1.41	0.00	1.41	0.00	0.00	
	0.94	1.41	0.28	-1.41	0.00	0.00	000000
120	0.00	-2.82	0.00	2.82	0.00	0.00	
	0.02	2.82	0.72	-2.82	0.00	0.00	000000
121	0.00	-2.82	0.00	2.82	0.00	0.00	
	-0.33	2.82	0.75	-2.82	0.00	-0.00	000000
122	0.00	-2.82	0.00	2.82	0.00	0.00	
	0.13	2.82	0.59	-2.82	0.00	-0.00	000000
123	0.00	-1.41	0.00	1.41	0.00	0.00	
	-1.14	1.41	0.24	-1.41	0.00	0.00	000000
124	0.00	-2.82	0.00	0.00	0.00	0.00	
	2.89	2.82	-0.22	-0.00	0.00	-0.00	000000
125	0.00	-4.23	0.00	-1.41	0.00	0.00	
	-2.14	4.23	-0.60	1.41	0.00	-0.00	000000
126	0.00	-4.23	0.00	-1.41	0.00	0.00	
	8.00	4.23	-0.58	1.41	0.00	-0.00	000000
127	0.00	-5.64	0.00	0.00	0.00	0.00	
	-6.46	5.64	-0.21	-0.00	0.00	-0.00	000000
128	0.00	-2.82	0.00	0.00	0.00	0.00	
	-2.29	2.82	-0.29	-0.00	0.00	-0.00	000000
129	0.00	-2.82	0.00	0.00	0.00	0.00	
	2.96	2.82	-0.15	-0.00	0.00	0.00	000000
130	0.00	-2.82	0.00	0.00	0.00	0.00	
	-3.10	2.82	-0.14	-0.00	0.00	0.00	000000
131	0.00	-2.82	0.00	0.00	0.00	0.00	
	11.73	2.82	-0.17	-0.00	0.00	-0.00	000000
132	0.00	-5.64	0.00	0.00	0.00	0.00	
	-8.55	5.64	-0.19	-0.00	0.00	0.00	000000
133	0.00	-2.82	0.00	0.00	0.00	0.00	
	-2.03	2.82	-0.22	-0.00	0.00	-0.00	000000
134	0.00	-1.41	0.00	-1.41	0.00	0.00	
	1.07	1.41	-0.55	1.41	0.00	0.00	000000
135	0.00	-1.41	0.00	-1.41	0.00	0.00	
	-1.02	1.41	-0.44	1.41	0.00	0.00	000000
136	0.00	-1.41	0.00	-1.41	0.00	0.00	
	5.97	1.41	-0.33	1.41	0.00	-0.00	000000
137	0.00	-2.82	0.00	-2.82	0.00	0.00	
	-4.98	2.82	-0.76	2.82	0.00	0.00	000000
138	0.00	-1.41	0.00	-1.41	0.00	0.00	
	-1.33	1.41	-0.47	1.41	0.00	0.00	000000
161	0.00	-2.82	0.00	2.82	0.00	0.00	

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
14	0.00000E+00	-2.25000E+00	0.00000E+00	-7.50000E-01	0.00000E+00	0.00000E+00
16	0.00000E+00	-2.25000E+00	0.00000E+00	-7.50000E-01	0.00000E+00	0.00000E+00
18	0.00000E+00	-1.87750E+00	0.00000E+00	1.45312E+00	0.00000E+00	6.33334E-02
20	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
22	0.00000E+00	-1.50000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
24	0.00000E+00	-1.50000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
26	0.00000E+00	-1.50000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
28	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
30	0.00000E+00	-1.50000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
32	0.00000E+00	-7.50000E-01	0.00000E+00	-7.50000E-01	0.00000E+00	0.00000E+00
34	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
36	0.00000E+00	-2.25000E+00	0.00000E+00	7.50000E-01	0.00000E+00	0.00000E+00
38	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
40	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
42	0.00000E+00	-7.50000E-01	0.00000E+00	-7.50000E-01	0.00000E+00	0.00000E+00
44	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
46	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
48	0.00000E+00	-7.50000E-01	0.00000E+00	-7.50000E-01	0.00000E+00	0.00000E+00
49	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
50	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
51	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
52	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
53	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
54	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
55	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
56	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
57	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
58	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
59	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
60	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
61	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
62	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
63	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
64	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
65	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
66	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
67	0.00000E+00	-1.32000E+00	0.00000E+00	1.32000E+00	0.00000E+00	0.00000E+00
70	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
71	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
72	0.00000E+00	-2.82000E+00	0.00000E+00	1.80000E-01	0.00000E+00	0.00000E+00
73	0.00000E+00	-1.73750E+00	0.00000E+00	1.50000E+00	0.00000E+00	-5.93749E-02
74	0.00000E+00	-1.88000E+00	0.00000E+00	1.50000E+00	0.00000E+00	-1.04381E-07
75	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
76	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
77	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
78	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
79	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
80	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
81	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
82	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
83	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
84	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
85	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
86	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
87	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
88	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
89	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
90	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
91	0.00000E+00	-1.50000E+00	0.00000E+00	1.50000E+00	0.00000E+00	0.00000E+00
92	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
93	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
94	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
95	0.00000E+00	-3.00000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
96	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
97	0.00000E+00	-3.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
98	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
99	0.00000E+00	-1.50000E+00	0.00000E+00	-1.50000E+00	0.00000E+00	0.00000E+00
108	0.00000E+00	-5.62500E-01	0.00000E+00	-1.40625E-01	0.00000E+00	0.00000E+00
114	0.00000E+00	-2.85000E-01	0.00000E+00	1.42500E-01	0.00000E+00	0.00000E+00
115	0.00000E+00	-1.90000E-01	0.00000E+00	-3.56250E-02	0.00000E+00	-3.95834E-03
116	0.00000E+00	-4.27500E-01	0.00000E+00	-1.06875E-01	0.00000E+00	0.00000E+00
117	0.00000E+00	-8.02500E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
118	0.00000E+00	-7.12500E-01	0.00000E+00	-2.74688E-09	0.00000E+00	0.00000E+00
119	0.00000E+00	-3.00000E-01	0.00000E+00	3.00000E-01	0.00000E+00	0.00000E+00
120	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
121	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
122	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
123	0.00000E+00	-3.00000E-01	0.00000E+00	3.00000E-01	0.00000E+00	0.00000E+00
124	0.00000E+00	-6.00000E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
125	0.00000E+00	-9.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
126	0.00000E+00	-9.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
127	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
128	0.00000E+00	-6.00000E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
129	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
130	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
131	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
132	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
133	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
134	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
135	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
136	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
137	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
138	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
143	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
144	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
145	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
146	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
147	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
148	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
149	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
150	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
151	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
152	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
153	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
154	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
159	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
160	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
161	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
162	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
163	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
164	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
165	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
166	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
167	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
168	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
169	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
170	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
171	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
172	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
173	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
174	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
175	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
176	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
182	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
183	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
184	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
185	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
186	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
187	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
188	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
189	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
193	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
194	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00

STATIC LOAD/REACTION/EQUILIBRIUM SUMMARY FOR CASE NO. 3
 LOADTYPE LIVE TITLE CV MAX

CENTER OF FORCE BASED ON Y FORCES ONLY (METE).
 (FORCES IN NON-GLOBAL DIRECTIONS WILL INVALIDATE RESULTS)

X = 0.161565917E+02
 Y = 0.483700892E+01
 Z = 0.110037347E+02

***TOTAL APPLIED LOAD (MTON METE) SUMMARY (LOADING 3)
 SUMMATION FORCE-X = 0.00
 SUMMATION FORCE-Y = -194.79
 SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-
 MX= 2143.42 MY= 0.00 MZ= -3147.14

***TOTAL REACTION LOAD(MTON METE) SUMMARY (LOADING 3)
 SUMMATION FORCE-X = -0.00
 SUMMATION FORCE-Y = 194.79
 SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-
 MX= -2143.42 MY= -0.00 MZ= 3147.14

MAXIMUM DISPLACEMENTS (CM /RADIANS) (LOADING 3)
 MAXIMUMS AT NODE
 X = 1.29626E-02 119
 Y = -1.01705E+00 82
 Z = 3.50587E-02 123
 RX= 2.20781E-03 66
 RY= -4.92403E-06 151
 RZ= -2.27041E-03 80

EXTERNAL AND INTERNAL JOINT LOAD SUMMARY (MTON METE)-

JT	EXT FX/ INT FX	EXT FY/ INT FY	EXT FZ/ INT FZ	EXT MX/ INT MX	EXT MY/ INT MY	EXT MZ/ INT MZ	
							SUPPORT=1
1	0.00 -0.22	0.00 -2.55	0.00 -0.10	0.00 -0.12	0.00 -0.00	0.00 0.21	111111
3	0.00 -0.02	0.00 -5.86	0.00 -0.21	0.00 -0.25	0.00 -0.00	0.00 -0.03	111111
5	0.00 0.06	0.00 -5.87	0.00 -0.21	0.00 -0.25	0.00 -0.00	0.00 -0.12	111111
7	0.00 -0.21	0.00 -3.63	0.00 -0.10	0.00 -0.10	0.00 -0.00	0.00 0.19	111111
9	0.00 0.27	0.00 -2.61	0.00 -0.10	0.00 -0.09	0.00 -0.00	0.00 -0.36	111111
10	0.00 0.11	-0.75 0.75	0.00 0.03	0.75 -0.75	0.00 -0.00	0.00 0.00	000000
11	0.00 -0.65	0.00 -6.67	0.00 0.01	0.00 0.03	0.00 -0.00	0.00 0.72	111111
12	0.00 -0.29	-1.50 1.50	0.00 0.06	0.00 0.00	0.00 -0.00	0.00 -0.00	000000
13	0.00 0.45	0.00 -9.61	0.00 0.10	0.00 0.15	0.00 -0.00	0.00 -0.57	111111
14	0.00 0.21	-2.25 2.25	0.00 0.11	-0.75 0.75	0.00 -0.00	0.00 -0.00	000000
15	0.00 -1.80	0.00 -15.98	0.00 0.10	0.00 0.15	0.00 -0.00	0.00 2.05	111111
16	0.00 -0.89	-2.25 2.25	0.00 0.11	-0.75 0.75	0.00 -0.00	0.00 0.00	000000
17	0.00 1.20	0.00 -17.78	0.00 -0.03	0.00 -0.02	0.00 -0.00	0.00 -1.43	111111
18	0.00 0.85	-1.88 1.88	0.00 0.10	1.45 -1.45	0.00 -0.00	0.06 -0.06	000000
19	0.00 0.61	0.00 -6.27	0.00 0.02	0.00 0.06	0.00 -0.00	0.00 -0.75	111111

STAAD SPACE							-- PAGE NO. 58	
23	0.00	0.00	0.00	0.00	0.00	0.00		
	0.69	-6.66	0.00	0.02	-0.00	-0.83	111111	
24	0.00	-1.50	0.00	0.00	0.00	0.00		
	0.30	1.50	0.06	-0.00	-0.00	-0.00	000000	
25	0.00	0.00	0.00	0.00	0.00	0.00		
	-2.52	-12.67	0.01	0.04	-0.00	2.90	111111	
26	0.00	-1.50	0.00	0.00	0.00	0.00		
	-1.32	1.50	0.06	-0.00	-0.00	-0.00	000000	
27	0.00	0.00	0.00	0.00	0.00	0.00		
	1.97	-20.68	0.02	0.06	-0.00	-2.32	111111	
28	0.00	-3.00	0.00	0.00	0.00	0.00		
	0.91	3.00	0.06	-0.00	-0.00	0.00	000000	
29	0.00	0.00	0.00	0.00	0.00	0.00		
	0.46	-5.61	0.02	0.05	-0.00	-0.56	111111	
30	0.00	-1.50	0.00	0.00	0.00	0.00		
	0.25	1.50	0.08	-0.00	-0.00	0.00	000000	
31	0.00	0.00	0.00	0.00	0.00	0.00		
	-0.22	-2.71	0.10	0.14	-0.00	0.24	111111	
32	0.00	-0.75	0.00	-0.75	0.00	0.00		
	-0.13	0.75	0.09	0.75	-0.00	-0.00	000000	
33	0.00	0.00	0.00	0.00	0.00	0.00		
	0.09	-4.69	-0.02	-0.01	-0.00	-0.12	111111	
34	0.00	-1.50	0.00	0.00	0.00	0.00		
	0.12	1.50	0.13	-0.00	-0.00	-0.00	000000	
35	0.00	0.00	0.00	0.00	0.00	0.00		
	-2.41	-14.21	-0.12	-0.13	-0.00	2.77	111111	
36	0.00	-2.25	0.00	0.75	0.00	0.00		
	-0.05	2.25	0.16	-0.75	-0.00	-0.00	000000	
37	0.00	0.00	0.00	0.00	0.00	0.00		
	2.11	-17.66	-0.04	-0.02	-0.00	-2.47	111111	
38	0.00	-3.00	0.00	0.00	0.00	0.00		
	-0.03	3.00	0.22	-0.00	-0.00	-0.00	000000	
39	0.00	0.00	0.00	0.00	0.00	0.00		
	0.58	-5.22	-0.01	0.02	-0.00	-0.70	111111	
40	0.00	-1.50	0.00	0.00	0.00	0.00		
	0.02	1.50	0.14	0.00	-0.00	0.00	000000	
41	0.00	0.00	0.00	0.00	0.00	0.00		
	-0.37	-1.80	0.18	0.25	-0.00	0.42	111111	
42	0.00	-0.75	0.00	-0.75	0.00	0.00		
	0.37	0.75	-0.18	0.75	0.00	0.00	000000	
43	0.00	0.00	0.00	0.00	0.00	0.00		
	-1.22	-6.34	0.38	0.51	-0.00	1.40	111111	
44	0.00	-1.50	0.00	-1.50	0.00	0.00		
	1.22	1.50	-0.38	1.50	0.00	-0.00	000000	
45	0.00	0.00	0.00	0.00	0.00	0.00		

STAAD SPACE

-- PAGE NO. 59

119	0.00	-0.30	0.00	0.30	0.00	0.00	
	0.31	0.30	0.10	-0.30	0.00	-0.00	000000
120	0.00	-0.60	0.00	0.60	0.00	0.00	
	0.01	0.60	0.24	-0.60	0.00	-0.00	000000
121	0.00	-0.60	0.00	0.60	0.00	0.00	
	-0.11	0.60	0.25	-0.60	0.00	0.00	000000
122	0.00	-0.60	0.00	0.60	0.00	0.00	
	0.11	0.60	0.16	-0.60	0.00	0.00	000000
123	0.00	-0.30	0.00	0.30	0.00	0.00	
	-0.38	0.30	0.07	-0.30	0.00	0.00	000000
124	0.00	-0.60	0.00	0.00	0.00	0.00	
	0.94	0.60	-0.07	-0.00	0.00	0.00	000000
125	0.00	-0.90	0.00	-0.30	0.00	0.00	
	-0.67	0.90	-0.21	0.30	0.00	-0.00	000000
126	0.00	-0.90	0.00	-0.30	0.00	0.00	
	2.69	0.90	-0.21	0.30	0.00	-0.00	000000
127	0.00	-1.20	0.00	0.00	0.00	0.00	
	-2.05	1.20	-0.06	-0.00	0.00	-0.00	000000
128	0.00	-0.60	0.00	0.00	0.00	0.00	
	-0.83	0.60	-0.12	-0.00	0.00	0.00	000000
129	0.00	-0.60	0.00	0.00	0.00	0.00	
	0.96	0.60	-0.06	-0.00	0.00	0.00	000000
130	0.00	-0.60	0.00	0.00	0.00	0.00	
	-0.99	0.60	-0.06	-0.00	0.00	-0.00	000000
131	0.00	-0.60	0.00	0.00	0.00	0.00	
	3.84	0.60	-0.07	-0.00	0.00	0.00	000000
132	0.00	-1.20	0.00	0.00	0.00	0.00	
	-2.88	1.20	-0.09	-0.00	0.00	-0.00	000000
133	0.00	-0.60	0.00	0.00	0.00	0.00	
	-0.71	0.60	-0.10	-0.00	0.00	0.00	000000
134	0.00	-0.30	0.00	-0.30	0.00	0.00	
	0.35	0.30	-0.19	0.30	0.00	0.00	000000
135	0.00	-0.30	0.00	-0.30	0.00	0.00	
	-0.21	0.30	-0.11	0.30	0.00	0.00	000000
136	0.00	-0.30	0.00	-0.30	0.00	0.00	
	2.46	0.30	-0.04	0.30	0.00	-0.00	000000
137	0.00	-0.60	0.00	-0.60	0.00	0.00	
	-2.08	0.60	-0.18	0.60	0.00	-0.00	000000
138	0.00	-0.30	0.00	-0.30	0.00	0.00	
	-0.60	0.30	-0.13	0.30	0.00	-0.00	000000
161	0.00	-0.60	0.00	0.60	0.00	0.00	
	-0.17	0.60	0.87	-0.60	0.00	0.00	000000

FOR LOADING - 4

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
2	0.00000E+00	-5.40000E-01	0.00000E+00	5.40000E-01	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
22	0.00000E+00	-1.08000E+00	0.00000E+00	1.31850E-07	0.00000E+00	0.00000E+00
24	0.00000E+00	-1.08000E+00	0.00000E+00	1.31850E-07	0.00000E+00	0.00000E+00
26	0.00000E+00	-1.08000E+00	0.00000E+00	1.31850E-07	0.00000E+00	0.00000E+00
28	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
30	0.00000E+00	-1.08000E+00	0.00000E+00	1.31850E-07	0.00000E+00	0.00000E+00
32	0.00000E+00	-5.40000E-01	0.00000E+00	-5.40000E-01	0.00000E+00	0.00000E+00
34	0.00000E+00	-1.08000E+00	0.00000E+00	-4.39501E-08	0.00000E+00	0.00000E+00
36	0.00000E+00	-1.62000E+00	0.00000E+00	5.40000E-01	0.00000E+00	0.00000E+00
38	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
40	0.00000E+00	-1.08000E+00	0.00000E+00	-4.39501E-08	0.00000E+00	0.00000E+00
42	0.00000E+00	-5.40000E-01	0.00000E+00	-5.40000E-01	0.00000E+00	0.00000E+00
44	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
46	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
48	0.00000E+00	-5.40000E-01	0.00000E+00	-5.40000E-01	0.00000E+00	0.00000E+00
49	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
50	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
51	0.00000E+00	-2.16000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
52	0.00000E+00	-2.16000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
53	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
54	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
55	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
56	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
57	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
58	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
59	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
60	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
61	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
62	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
63	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
64	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
65	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
66	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
67	0.00000E+00	-9.60000E-01	0.00000E+00	9.60000E-01	0.00000E+00	0.00000E+00
70	0.00000E+00	-2.16000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
71	0.00000E+00	-2.16000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
72	0.00000E+00	-2.04000E+00	0.00000E+00	1.20000E-01	0.00000E+00	0.00000E+00
73	0.00000E+00	-1.25500E+00	0.00000E+00	1.08000E+00	0.00000E+00	-4.37499E-02
74	0.00000E+00	-1.36000E+00	0.00000E+00	1.08000E+00	0.00000E+00	-7.14189E-08
75	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
76	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
77	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
78	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
79	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
80	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
81	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
82	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
83	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
84	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
85	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
86	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
87	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
88	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
89	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
90	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
91	0.00000E+00	-1.08000E+00	0.00000E+00	1.08000E+00	0.00000E+00	0.00000E+00
92	0.00000E+00	-2.16000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
93	0.00000E+00	-2.16000E+00	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
94	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
95	0.00000E+00	-2.16000E+00	0.00000E+00	2.63700E-07	0.00000E+00	0.00000E+00
96	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
97	0.00000E+00	-2.16000E+00	0.00000E+00	-8.79001E-08	0.00000E+00	0.00000E+00
98	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
99	0.00000E+00	-1.08000E+00	0.00000E+00	-1.08000E+00	0.00000E+00	0.00000E+00
108	0.00000E+00	-4.05000E-01	0.00000E+00	-1.01250E-01	0.00000E+00	0.00000E+00
114	0.00000E+00	-2.10000E-01	0.00000E+00	1.05000E-01	0.00000E+00	0.00000E+00
115	0.00000E+00	-1.40000E-01	0.00000E+00	-2.62500E-02	0.00000E+00	-2.91667E-03
116	0.00000E+00	-3.15000E-01	0.00000E+00	-7.87500E-02	0.00000E+00	0.00000E+00
117	0.00000E+00	-5.85000E-01	0.00000E+00	-2.74688E-09	0.00000E+00	0.00000E+00
118	0.00000E+00	-5.25000E-01	0.00000E+00	-2.74688E-09	0.00000E+00	0.00000E+00
119	0.00000E+00	-2.10000E-01	0.00000E+00	2.10000E-01	0.00000E+00	0.00000E+00
120	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
121	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
122	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
123	0.00000E+00	-2.10000E-01	0.00000E+00	2.10000E-01	0.00000E+00	0.00000E+00
124	0.00000E+00	-4.20000E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
125	0.00000E+00	-6.30000E-01	0.00000E+00	-2.10000E-01	0.00000E+00	0.00000E+00
126	0.00000E+00	-6.30000E-01	0.00000E+00	-2.10000E-01	0.00000E+00	0.00000E+00
127	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
128	0.00000E+00	-4.20000E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
129	0.00000E+00	-4.20000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
130	0.00000E+00	-4.20000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
131	0.00000E+00	-4.20000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
132	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
133	0.00000E+00	-4.20000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
134	0.00000E+00	-2.10000E-01	0.00000E+00	-2.10000E-01	0.00000E+00	0.00000E+00
135	0.00000E+00	-2.10000E-01	0.00000E+00	-2.10000E-01	0.00000E+00	0.00000E+00
136	0.00000E+00	-2.10000E-01	0.00000E+00	-2.10000E-01	0.00000E+00	0.00000E+00
137	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
138	0.00000E+00	-2.10000E-01	0.00000E+00	-2.10000E-01	0.00000E+00	0.00000E+00
143	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
144	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
145	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
146	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
147	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
148	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
149	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
150	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
151	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
152	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
153	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
154	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
159	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
160	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
161	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
162	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
163	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
164	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
165	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
166	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
167	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
168	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
169	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
170	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
171	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
172	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
173	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
174	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
175	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
176	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
182	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
183	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
184	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
185	0.00000E+00	-8.40000E-01	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
186	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
187	0.00000E+00	-8.40000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
188	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
189	0.00000E+00	-4.20000E-01	0.00000E+00	-4.20000E-01	0.00000E+00	0.00000E+00
193	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00
194	0.00000E+00	-4.20000E-01	0.00000E+00	4.20000E-01	0.00000E+00	0.00000E+00

STATIC LOAD/REACTION/EQUILIBRIUM SUMMARY FOR CASE NO. 4
 LOADTYPE LIVE TITLE CV INST

CENTER OF FORCE BASED ON Y FORCES ONLY (METE).
 (FORCES IN NON-GLOBAL DIRECTIONS WILL INVALIDATE RESULTS)

X = 0.161600301E+02
 Y = 0.481665933E+01
 Z = 0.110168965E+02

***TOTAL APPLIED LOAD (MTON METE) SUMMARY (LOADING 4)
 SUMMATION FORCE-X = 0.00
 SUMMATION FORCE-Y = -139.38
 SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-
 MX= 1535.54 MY= 0.00 MZ= -2252.38

***TOTAL REACTION LOAD(MTON METE) SUMMARY (LOADING 4)
 SUMMATION FORCE-X = -0.00
 SUMMATION FORCE-Y = 139.38
 SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-
 MX= -1535.54 MY= -0.00 MZ= 2252.38

MAXIMUM DISPLACEMENTS (CM /RADIANS) (LOADING 4)
 MAXIMUMS AT NODE
 X = 9.24372E-03 194
 Y = -7.32417E-01 82
 Z = 2.51985E-02 138
 RX= 1.59423E-03 66
 RY= -3.54899E-06 156
 RZ= -1.63511E-03 80

EXTERNAL AND INTERNAL JOINT LOAD SUMMARY (MTON METE)-

JT	EXT FX/	EXT FY/	EXT FZ/	EXT MX/	EXT MY/	EXT MZ/	
	INT FX	INT FY	INT FZ	INT MX	INT MY	INT MZ	
							SUPPORT=1
1	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.16	-1.82	-0.07	-0.08	-0.00	0.15	111111
3	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.01	-4.19	-0.15	-0.18	-0.00	-0.02	111111
5	0.00	0.00	0.00	0.00	0.00	0.00	
	0.04	-4.19	-0.15	-0.18	-0.00	-0.08	111111
7	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.15	-2.58	-0.07	-0.07	-0.00	0.14	111111
9	0.00	0.00	0.00	0.00	0.00	0.00	
	0.19	-1.87	-0.07	-0.07	-0.00	-0.26	111111
11	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.47	-4.77	0.01	0.02	-0.00	0.52	111111
12	0.00	-1.08	0.00	0.00	0.00	0.00	
	-0.20	1.08	0.04	-0.00	-0.00	0.00	000000
13	0.00	0.00	0.00	0.00	0.00	0.00	
	0.33	-6.86	0.07	0.11	-0.00	-0.41	111111
14	0.00	-1.62	0.00	-0.54	0.00	0.00	
	0.14	1.62	0.07	0.54	-0.00	-0.00	000000
15	0.00	0.00	0.00	0.00	0.00	0.00	
	-1.30	-11.42	0.07	0.11	-0.00	1.48	111111
16	0.00	-1.62	0.00	-0.54	0.00	0.00	
	-0.61	1.62	0.08	0.54	-0.00	-0.00	000000
17	0.00	0.00	0.00	0.00	0.00	0.00	
	0.88	-12.72	-0.02	-0.01	-0.00	-1.04	111111
18	0.00	-1.35	0.00	1.05	0.00	0.05	
	0.59	1.35	0.07	-1.05	-0.00	-0.05	000000
19	0.00	0.00	0.00	0.00	0.00	0.00	
	0.44	-4.48	0.02	0.04	-0.00	-0.54	111111
20	0.00	-1.08	0.00	0.00	0.00	0.00	
	0.15	1.08	0.07	-0.00	-0.00	-0.00	000000
21	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.48	-4.79	-0.00	0.01	-0.00	0.53	111111
22	0.00	-1.08	0.00	0.00	0.00	0.00	

STAAD SPACE

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26	0.00	-1.08	0.00	0.00	0.00	0.00	
	-0.90	1.08	0.04	-0.00	-0.00	-0.00	000000
27	0.00	0.00	0.00	0.00	0.00	0.00	
	1.42	-14.76	0.02	0.04	-0.00	-1.68	111111
28	0.00	-2.16	0.00	0.00	0.00	0.00	
	0.63	2.16	0.05	-0.00	-0.00	-0.00	000000
29	0.00	0.00	0.00	0.00	0.00	0.00	
	0.33	-4.00	0.01	0.04	-0.00	-0.41	111111
30	0.00	-1.08	0.00	0.00	0.00	0.00	
	0.18	1.08	0.06	-0.00	-0.00	0.00	000000
31	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.16	-1.94	0.07	0.10	-0.00	0.17	111111
33	0.00	0.00	0.00	0.00	0.00	0.00	
	0.07	-3.36	-0.01	-0.00	-0.00	-0.09	111111
35	0.00	0.00	0.00	0.00	0.00	0.00	
	-1.74	-10.20	-0.09	-0.09	-0.00	2.00	111111
36	0.00	-1.62	0.00	0.54	0.00	0.00	
	-0.02	1.62	0.11	-0.54	-0.00	0.00	000000
37	0.00	0.00	0.00	0.00	0.00	0.00	
	1.52	-12.66	-0.03	-0.01	-0.00	-1.78	111111
38	0.00	-2.16	0.00	-0.00	0.00	0.00	
	-0.03	2.16	0.15	0.00	-0.00	-0.00	000000
39	0.00	0.00	0.00	0.00	0.00	0.00	
	0.42	-3.74	-0.01	0.01	-0.00	-0.50	111111
40	0.00	-1.08	0.00	-0.00	0.00	0.00	
	0.01	1.08	0.10	0.00	-0.00	0.00	000000
41	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.27	-1.29	0.13	0.18	-0.00	0.30	111111
42	0.00	-0.54	0.00	-0.54	0.00	0.00	
	0.27	0.54	-0.13	0.54	0.00	-0.00	000000
43	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.88	-4.56	0.28	0.37	-0.00	1.01	111111
44	0.00	-1.08	0.00	-1.08	0.00	0.00	
	0.88	1.08	-0.28	1.08	0.00	-0.00	000000
45	0.00	0.00	0.00	0.00	0.00	0.00	
	0.96	-4.33	0.27	0.37	-0.00	-1.13	111111
46	0.00	-1.08	0.00	-1.08	0.00	0.00	
	-0.96	1.08	-0.27	1.08	0.00	0.00	000000
47	0.00	0.00	0.00	0.00	0.00	0.00	
	0.20	-1.10	0.15	0.21	-0.00	-0.24	111111
48	0.00	-0.54	0.00	-0.54	0.00	0.00	
	-0.20	0.54	-0.15	0.54	0.00	0.00	000000
67	0.00	-0.96	0.00	0.96	0.00	0.00	
	-0.02	0.96	-0.19	-0.96	-0.00	-0.00	000000
113	0.00	0.00	0.00	0.00	0.00	0.00	

STAAD SPACE

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124	0.00	-0.42	0.00	0.00	0.00	0.00	
	0.67	0.42	-0.05	-0.00	0.00	-0.00	000000
125	0.00	-0.63	0.00	-0.21	0.00	0.00	
	-0.47	0.63	-0.15	0.21	0.00	0.00	000000
126	0.00	-0.63	0.00	-0.21	0.00	0.00	
	1.92	0.63	-0.15	0.21	0.00	-0.00	000000
127	0.00	-0.84	0.00	0.00	0.00	0.00	
	-1.46	0.84	-0.04	-0.00	0.00	-0.00	000000
128	0.00	-0.42	0.00	0.00	0.00	0.00	
	-0.59	0.42	-0.08	-0.00	0.00	0.00	000000
129	0.00	-0.42	0.00	0.00	0.00	0.00	
	0.68	0.42	-0.04	-0.00	0.00	-0.00	000000
130	0.00	-0.42	0.00	0.00	0.00	0.00	
	-0.71	0.42	-0.04	-0.00	0.00	-0.00	000000
131	0.00	-0.42	0.00	0.00	0.00	0.00	
	2.73	0.42	-0.05	-0.00	0.00	-0.00	000000
132	0.00	-0.84	0.00	0.00	0.00	0.00	
	-2.05	0.84	-0.06	-0.00	0.00	0.00	000000
133	0.00	-0.42	0.00	0.00	0.00	0.00	
	-0.51	0.42	-0.07	-0.00	0.00	0.00	000000
134	0.00	-0.21	0.00	-0.21	0.00	0.00	
	0.25	0.21	-0.13	0.21	0.00	0.00	000000
135	0.00	-0.21	0.00	-0.21	0.00	0.00	
	-0.15	0.21	-0.08	0.21	0.00	-0.00	000000
136	0.00	-0.21	0.00	-0.21	0.00	0.00	
	1.76	0.21	-0.03	0.21	0.00	0.00	000000
137	0.00	-0.42	0.00	-0.42	0.00	0.00	
	-1.49	0.42	-0.13	0.42	0.00	-0.00	000000
138	0.00	-0.21	0.00	-0.21	0.00	0.00	
	-0.43	0.21	-0.09	0.21	0.00	-0.00	000000
161	0.00	-0.42	0.00	0.42	0.00	0.00	
	-0.12	0.42	0.62	-0.42	0.00	0.00	000000

FOR LOADING - 5

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
2	0.00000E+00	-3.00000E-01	0.00000E+00	3.00000E-01	0.00000E+00	0.00000E+00
4	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
6	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
8	0.00000E+00	-1.50000E-01	0.00000E+00	7.50000E-02	0.00000E+00	0.00000E+00
10	0.00000E+00	-3.00000E-01	0.00000E+00	3.00000E-01	0.00000E+00	0.00000E+00
12	0.00000E+00	-6.00000E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
14	0.00000E+00	-9.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
16	0.00000E+00	-9.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
18	0.00000E+00	-7.50000E-01	0.00000E+00	5.81250E-01	0.00000E+00	2.50000E-02
20	0.00000E+00	-6.00000E-01	0.00000E+00	2.19750E-08	0.00000E+00	0.00000E+00
22	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
24	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
26	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
28	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
30	0.00000E+00	-6.00000E-01	0.00000E+00	8.79001E-08	0.00000E+00	0.00000E+00
32	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
42	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
44	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
46	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
48	0.00000E+00	-3.00000E-01	0.00000E+00	-3.00000E-01	0.00000E+00	0.00000E+00
49	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
50	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
51	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
52	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
53	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
54	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
55	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
56	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
57	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
58	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
59	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
60	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
61	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
62	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
63	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
64	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
65	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
66	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
67	0.00000E+00	-5.25000E-01	0.00000E+00	5.25000E-01	0.00000E+00	0.00000E+00
70	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
71	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
72	0.00000E+00	-1.12500E+00	0.00000E+00	7.50000E-02	0.00000E+00	0.00000E+00
73	0.00000E+00	-6.93750E-01	0.00000E+00	6.00000E-01	0.00000E+00	-2.34375E-02
74	0.00000E+00	-7.50000E-01	0.00000E+00	6.00000E-01	0.00000E+00	-4.12032E-08
75	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
76	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
77	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
78	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
79	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
80	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
81	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
82	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
83	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
84	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
85	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
86	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
87	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
88	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
89	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
90	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
91	0.00000E+00	-6.00000E-01	0.00000E+00	6.00000E-01	0.00000E+00	0.00000E+00
92	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
93	0.00000E+00	-1.20000E+00	0.00000E+00	4.39501E-08	0.00000E+00	0.00000E+00
94	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
95	0.00000E+00	-1.20000E+00	0.00000E+00	1.75800E-07	0.00000E+00	0.00000E+00
96	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
97	0.00000E+00	-1.20000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
98	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00
99	0.00000E+00	-6.00000E-01	0.00000E+00	-6.00000E-01	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
108	0.00000E+00	-2.25000E-01	0.00000E+00	-5.62500E-02	0.00000E+00	0.00000E+00
114	0.00000E+00	-1.12500E-01	0.00000E+00	5.62500E-02	0.00000E+00	0.00000E+00
115	0.00000E+00	-7.50000E-02	0.00000E+00	-1.40625E-02	0.00000E+00	-1.56250E-03
116	0.00000E+00	-1.68750E-01	0.00000E+00	-4.21875E-02	0.00000E+00	0.00000E+00
117	0.00000E+00	-3.18750E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
118	0.00000E+00	-2.81250E-01	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
119	0.00000E+00	-4.50000E-02	0.00000E+00	4.50000E-02	0.00000E+00	0.00000E+00
120	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
121	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
122	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
123	0.00000E+00	-4.50000E-02	0.00000E+00	4.50000E-02	0.00000E+00	0.00000E+00
124	0.00000E+00	-9.00000E-02	0.00000E+00	2.74688E-09	0.00000E+00	0.00000E+00
125	0.00000E+00	-1.35000E-01	0.00000E+00	-4.50000E-02	0.00000E+00	0.00000E+00
126	0.00000E+00	-1.35000E-01	0.00000E+00	-4.50000E-02	0.00000E+00	0.00000E+00
127	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
128	0.00000E+00	-9.00000E-02	0.00000E+00	2.74688E-09	0.00000E+00	0.00000E+00
129	0.00000E+00	-9.00000E-02	0.00000E+00	8.24064E-09	0.00000E+00	0.00000E+00
130	0.00000E+00	-9.00000E-02	0.00000E+00	8.24064E-09	0.00000E+00	0.00000E+00
131	0.00000E+00	-9.00000E-02	0.00000E+00	8.24064E-09	0.00000E+00	0.00000E+00
132	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
133	0.00000E+00	-9.00000E-02	0.00000E+00	8.24064E-09	0.00000E+00	0.00000E+00
134	0.00000E+00	-4.50000E-02	0.00000E+00	-4.50000E-02	0.00000E+00	0.00000E+00
135	0.00000E+00	-4.50000E-02	0.00000E+00	-4.50000E-02	0.00000E+00	0.00000E+00
136	0.00000E+00	-4.50000E-02	0.00000E+00	-4.50000E-02	0.00000E+00	0.00000E+00
137	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
138	0.00000E+00	-4.50000E-02	0.00000E+00	-4.50000E-02	0.00000E+00	0.00000E+00
143	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
144	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
145	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
146	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
147	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
148	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
149	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
150	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
151	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
152	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
153	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
154	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
159	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
160	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
161	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
162	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
163	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
164	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
165	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
166	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
167	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
168	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
169	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
170	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
171	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
172	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
173	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
174	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
175	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
176	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
182	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
183	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
184	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
185	0.00000E+00	-1.80000E-01	0.00000E+00	5.49376E-09	0.00000E+00	0.00000E+00
186	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
187	0.00000E+00	-1.80000E-01	0.00000E+00	1.64813E-08	0.00000E+00	0.00000E+00
188	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
189	0.00000E+00	-9.00000E-02	0.00000E+00	-9.00000E-02	0.00000E+00	0.00000E+00
193	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00
194	0.00000E+00	-9.00000E-02	0.00000E+00	9.00000E-02	0.00000E+00	0.00000E+00

STATIC LOAD/REACTION/EQUILIBRIUM SUMMARY FOR CASE NO. 5
LOADTYPE LIVE TITLE CV MEDIA

CENTER OF FORCE BASED ON Y FORCES ONLY (METER).
(FORCES IN NON-GLOBAL DIRECTIONS WILL INVALIDATE RESULTS)

X = 0.161966349E+02
Y = 0.431359609E+01
Z = 0.114417063E+02

***TOTAL APPLIED LOAD (MTON METER) SUMMARY (LOADING 5)

SUMMATION FORCE-X = 0.00
SUMMATION FORCE-Y = -66.19
SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-

MX= 757.38 MY= 0.00 MZ= -1072.14

***TOTAL REACTION LOAD(MTON METER) SUMMARY (LOADING 5)

SUMMATION FORCE-X = -0.00
SUMMATION FORCE-Y = 66.19
SUMMATION FORCE-Z = -0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-

MX= -757.38 MY= -0.00 MZ= 1072.14

MAXIMUM DISPLACEMENTS (CM /RADIANS) (LOADING 5)

MAXIMUMS AT NODE
X = 4.35952E-03 194
Y = -4.09823E-01 82
Z = 1.24154E-02 138
RX= 8.90681E-04 66
RY= -1.95166E-06 151
RZ= -9.16069E-04 80

EXTERNAL AND INTERNAL JOINT LOAD SUMMARY (MTON METE)-

JT	EXT FX/	EXT FY/	EXT FZ/	EXT MX/	EXT MY/	EXT MZ/	
	INT FX	INT FY	INT FZ	INT MX	INT MY	INT MZ	
							SUPPORT=1
1	0.00 -0.09	0.00 -0.84	0.00 -0.04	0.00 -0.05	0.00 -0.00	0.00 0.09	111111
3	0.00 -0.01	0.00 -1.93	0.00 -0.09	0.00 -0.10	0.00 -0.00	0.00 -0.01	111111
5	0.00 0.03	0.00 -1.93	0.00 -0.09	0.00 -0.10	0.00 -0.00	0.00 -0.05	111111
7	0.00 -0.08	0.00 -1.06	0.00 -0.04	0.00 -0.05	0.00 -0.00	0.00 0.08	111111
9	0.00 0.12	0.00 -0.86	0.00 -0.04	0.00 -0.04	0.00 -0.00	0.00 -0.16	111111
11	0.00 -0.29	0.00 -2.19	0.00 0.01	0.00 0.02	0.00 -0.00	0.00 0.32	111111
13	0.00 0.21	0.00 -3.17	0.00 0.05	0.00 0.07	0.00 -0.00	0.00 -0.25	111111
15	0.00 -0.78	0.00 -5.22	0.00 0.05	0.00 0.07	0.00 -0.00	0.00 0.89	111111
17	0.00 0.53	0.00 -5.63	0.00 -0.01	0.00 -0.00	0.00 -0.00	0.00 -0.63	111111
19	0.00 0.26	0.00 -2.10	0.00 0.01	0.00 0.03	0.00 -0.00	0.00 -0.31	111111
21	0.00 -0.29	0.00 -2.20	0.00 -0.00	0.00 0.00	0.00 -0.00	0.00 0.33	111111
23	0.00 0.31	0.00 -2.19	0.00 0.00	0.00 0.01	0.00 -0.00	0.00 -0.37	111111
25	0.00 -1.10	0.00 -4.11	0.00 0.01	0.00 0.02	0.00 -0.00	0.00 1.27	111111
27	0.00 0.85	0.00 -6.69	0.00 0.01	0.00 0.02	0.00 -0.00	0.00 -1.00	111111
29	0.00 0.19	0.00 -1.84	0.00 0.01	0.00 0.02	0.00 -0.00	0.00 -0.24	111111
31	0.00 -0.10	0.00 -0.89	0.00 0.04	0.00 0.06	0.00 -0.00	0.00 0.11	111111
33	0.00 0.05	0.00 -1.70	0.00 -0.00	0.00 0.00	0.00 -0.00	0.00 -0.07	111111
35	0.00 -1.00	0.00 -5.28	0.00 -0.04	0.00 -0.05	0.00 -0.00	0.00 1.15	111111
36	0.00 0.17	-0.90 0.90	0.00 0.04	0.30 -0.30	0.00 -0.00	0.00 -0.00	000000
37	0.00 0.87	0.00 -6.46	0.00 -0.01	0.00 0.00	0.00 -0.00	0.00 -1.02	111111

STAAD SPACE

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43	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.49	-2.53	0.15	0.20	-0.00	0.56	111111
44	0.00	-0.60	0.00	-0.60	0.00	0.00	
	0.49	0.60	-0.15	0.60	0.00	0.00	000000
45	0.00	0.00	0.00	0.00	0.00	0.00	
	0.53	-2.40	0.15	0.20	-0.00	-0.63	111111
46	0.00	-0.60	0.00	-0.60	0.00	0.00	
	-0.53	0.60	-0.15	0.60	0.00	0.00	000000
47	0.00	0.00	0.00	0.00	0.00	0.00	
	0.11	-0.61	0.08	0.12	-0.00	-0.13	111111
48	0.00	-0.30	0.00	-0.30	0.00	0.00	
	-0.11	0.30	-0.08	0.30	0.00	0.00	000000
113	0.00	0.00	0.00	0.00	0.00	0.00	
	0.08	-1.72	-0.26	-0.32	-0.00	-0.11	111111
123	0.00	-0.04	0.00	0.04	0.00	0.00	
	-0.11	0.04	0.02	-0.04	0.00	0.00	000000
124	0.00	-0.09	0.00	0.00	0.00	0.00	
	0.27	0.09	-0.02	-0.00	0.00	0.00	000000
125	0.00	-0.14	0.00	-0.04	0.00	0.00	
	-0.18	0.14	-0.06	0.04	0.00	0.00	000000
126	0.00	-0.14	0.00	-0.04	0.00	0.00	
	0.78	0.14	-0.06	0.04	0.00	0.00	000000
127	0.00	-0.18	0.00	0.00	0.00	0.00	
	-0.56	0.18	-0.02	-0.00	0.00	0.00	000000
128	0.00	-0.09	0.00	0.00	0.00	0.00	
	-0.25	0.09	-0.04	-0.00	0.00	0.00	000000
129	0.00	-0.09	0.00	0.00	0.00	0.00	
	0.27	0.09	-0.02	-0.00	0.00	0.00	000000
130	0.00	-0.09	0.00	0.00	0.00	0.00	
	-0.28	0.09	-0.02	-0.00	0.00	0.00	000000
131	0.00	-0.09	0.00	0.00	0.00	0.00	
	1.09	0.09	-0.02	-0.00	0.00	0.00	000000
132	0.00	-0.18	0.00	0.00	0.00	0.00	
	-0.84	0.18	-0.03	-0.00	0.00	0.00	000000
133	0.00	-0.09	0.00	0.00	0.00	0.00	
	-0.21	0.09	-0.03	-0.00	0.00	-0.00	000000
136	0.00	-0.04	0.00	-0.04	0.00	0.00	
	0.82	0.04	0.01	0.04	0.00	-0.00	000000
137	0.00	-0.09	0.00	-0.09	0.00	0.00	
	-0.70	0.09	-0.04	0.09	0.00	-0.00	000000
138	0.00	-0.04	0.00	-0.04	0.00	0.00	
	-0.21	0.04	-0.03	0.04	0.00	-0.00	000000
161	0.00	-0.09	0.00	0.09	0.00	0.00	
	-0.06	0.09	0.24	-0.09	0.00	-0.00	000000

APPLIED JOINT EQUIVALENT LOADS

JOINT	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM-Z
168	0.00000E+00	-5.92593E-01	0.00000E+00	-5.69444E-01	0.00000E+00	0.00000E+00
169	0.00000E+00	-5.92593E-01	0.00000E+00	-5.69444E-01	0.00000E+00	0.00000E+00
170	0.00000E+00	-1.15972E-01	0.00000E+00	-1.72917E-01	0.00000E+00	0.00000E+00
171	0.00000E+00	-2.31944E-01	0.00000E+00	-3.45833E-01	0.00000E+00	0.00000E+00
184	0.00000E+00	-6.44097E-01	0.00000E+00	7.94792E-01	0.00000E+00	0.00000E+00
185	0.00000E+00	-6.44097E-01	0.00000E+00	7.94792E-01	0.00000E+00	0.00000E+00
186	0.00000E+00	-4.05903E-01	0.00000E+00	-6.05208E-01	0.00000E+00	0.00000E+00
187	0.00000E+00	-4.05903E-01	0.00000E+00	-6.05208E-01	0.00000E+00	0.00000E+00

STATIC LOAD/REACTION/EQUILIBRIUM SUMMARY FOR CASE NO. 6
LOADTYPE LIVE TITLE EQUIPOS

CENTER OF FORCE BASED ON Y FORCES ONLY (METE).
(FORCES IN NON-GLOBAL DIRECTIONS WILL INVALIDATE RESULTS)

X = 0.186811595E+02
Y = 0.779999977E+01
Z = 0.898550716E+01

***TOTAL APPLIED LOAD (MTON METE) SUMMARY (LOADING 6)

SUMMATION FORCE-X = 0.00
SUMMATION FORCE-Y = -6.90
SUMMATION FORCE-Z = 0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-

MX= 62.00 MY= 0.00 MZ= -128.90

***TOTAL REACTION LOAD(MTON METE) SUMMARY (LOADING 6)

SUMMATION FORCE-X = -0.00
SUMMATION FORCE-Y = 6.90
SUMMATION FORCE-Z = -0.00

SUMMATION OF MOMENTS AROUND THE ORIGIN-

MX= -62.00 MY= 0.00 MZ= 128.90

MAXIMUM DISPLACEMENTS (CM /RADIANS) (LOADING 6)

MAXIMUMS AT NODE
X = 1.53361E-03 189
Y = -1.79234E-01 164
Z = 3.03038E-03 134
RX= -6.27732E-04 149
RY= 1.92762E-07 156
RZ= -4.06832E-04 162

EXTERNAL AND INTERNAL JOINT LOAD SUMMARY (MTON METE)-

JT	EXT FX/	EXT FY/	EXT FZ/	EXT MX/	EXT MY/	EXT MZ/
	INT FX	INT FY	INT FZ	INT MX	INT MY	INT MZ

SUPPORT=1

STAAD SPACE

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13	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.02	0.13	-0.00	-0.00	-0.00	0.02	111111
15	0.00	0.00	0.00	0.00	0.00	0.00	
	0.10	-1.08	-0.00	-0.00	-0.00	-0.12	111111
16	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.63	0.00	0.01	0.00	0.00	0.00	000000
17	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.07	-1.89	-0.00	-0.00	-0.00	0.08	111111
18	0.00	0.00	0.00	0.00	0.00	0.00	
	0.43	0.00	0.01	-0.00	0.00	-0.00	000000
19	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.03	-0.56	-0.00	-0.00	-0.00	0.04	111111
20	0.00	0.00	0.00	0.00	0.00	0.00	
	0.21	-0.00	0.01	0.00	0.00	0.00	000000
21	0.00	0.00	0.00	0.00	0.00	0.00	
	0.03	-0.43	-0.00	-0.00	-0.00	-0.04	111111
22	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.16	-0.00	0.01	0.00	0.00	0.00	000000
23	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.02	-0.17	-0.00	-0.00	-0.00	0.03	111111
24	0.00	0.00	0.00	0.00	0.00	0.00	
	0.11	0.00	0.01	0.00	0.00	-0.00	000000
25	0.00	0.00	0.00	0.00	0.00	0.00	
	0.10	-0.76	-0.00	-0.00	-0.00	-0.12	111111
26	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.59	0.00	0.02	0.00	0.00	0.00	000000
27	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.06	-1.45	-0.00	-0.00	-0.00	0.07	111111
28	0.00	0.00	0.00	0.00	0.00	0.00	
	0.37	-0.00	0.02	0.00	0.00	0.00	000000
29	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.02	-0.40	-0.00	-0.00	-0.00	0.03	111111
30	0.00	0.00	0.00	0.00	0.00	0.00	
	0.15	0.00	0.01	-0.00	0.00	0.00	000000
31	0.00	0.00	0.00	0.00	0.00	0.00	
	0.02	-0.27	-0.00	-0.00	-0.00	-0.02	111111
33	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.01	-0.13	-0.00	-0.00	-0.00	0.01	111111
37	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.00	0.13	-0.00	-0.00	-0.00	0.00	111111
67	0.00	0.00	0.00	0.00	0.00	0.00	
	0.03	-0.00	-0.24	0.00	0.00	-0.00	000000
113	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.00	-0.30	0.05	0.06	-0.00	0.00	111111
126	0.00	0.00	0.00	0.00	0.00	0.00	

STAAD SPACE

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133	0.00	0.00	0.00	0.00	0.00	0.00	
	-0.13	0.00	-0.01	0.00	-0.00	-0.00	000000
161	0.00	-0.16	0.00	0.27	0.00	0.00	
	-0.02	0.16	0.19	-0.27	-0.00	-0.00	000000

LOAD COMBINATION NO. 10
1.0 (PP+CM+CVMAX+EQ)

LOADING- 1. 2. 3. 6.
FACTOR - 1.00 1.00 1.00 1.00

LOAD COMBINATION NO. 11
1.0 (PP+CM+CVINST+EQ+ SX+ 0.3 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 1.00 0.30

LOAD COMBINATION NO. 12
1.0 (PP+CM+CVINST+EQ+ SX- 0.3 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 1.00 -0.30

LOAD COMBINATION NO. 13
1.0 (PP+CM+CVINST+EQ- SX+ 0.3 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 -1.00 0.30

LOAD COMBINATION NO. 14
1.0 (PP+CM+CVINST+EQ- SX- 0.3 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 -1.00 -0.30

LOAD COMBINATION NO. 15
1.0 (PP+CM+CVINST+EQ+ 0.3 SX+ SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 0.30 1.00

LOAD COMBINATION NO. 16
1.0 (PP+CM+CVINST+EQ+ 0.3 SX- SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 0.30 -1.00

LOAD COMBINATION NO. 17
1.0 (PP+CM+CVINST+EQ- 0.3 SX+ SZ)

LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.00 1.00 1.00 1.00 -0.30 1.00

LOAD COMBINATION NO. 18
1.0 (PP+CM+CVINST+EQ- 0.3 SX- SZ)

STAAD SPACE

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LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.00 1.00 1.00 1.00 -0.30 -1.00

LOAD COMBINATION NO. 20
 1.4 (PP+CM+CVMAX+EQ)

LOADING- 1. 2. 3. 6.
 FACTOR - 1.40 1.40 1.40 1.40

LOAD COMBINATION NO. 21
 1.1 (PP+CM+CVINST+EQ+ SX+ 0.33 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 1.10 0.33

LOAD COMBINATION NO. 22
 1.1 (PP+CM+CVINST+EQ+ SX- 0.33 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 1.10 -0.33

LOAD COMBINATION NO. 23
 1.1 (PP+CM+CVINST+EQ- SX+ 0.33 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 -1.10 0.33

LOAD COMBINATION NO. 24
 1.1 (PP+CM+CVINST+EQ- SX- 0.33 SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 -1.10 -0.33

LOAD COMBINATION NO. 25
 1.1 (PP+CM+CVINST+EQ+ 0.33 SX+ SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 0.33 1.10

LOAD COMBINATION NO. 26
 1.1 (PP+CM+CVINST+EQ+ 0.33 SX- SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 0.33 -1.10

LOAD COMBINATION NO. 27
 1.1 (PP+CM+CVINST+EQ- 0.33 SX+ SZ)

LOADING- 1. 2. 4. 6. 7. 8.
 FACTOR - 1.10 1.10 1.10 1.10 -0.33 1.10

LOAD COMBINATION NO. 28
 1.1 (PP+CM+CVINST+EQ- 0.33 SX- SZ)

STAAD SPACE

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LOADING- 1. 2. 4. 6. 7. 8.
FACTOR - 1.10 1.10 1.10 1.10 -0.33 -1.10

LOAD COMBINATION NO. 30
1.0 (PP+CM+CVINST)

LOADING- 1. 2. 4.
FACTOR - 1.00 1.00 1.00

LOAD COMBINATION NO. 31
1.0 (PP+CM+CVMED+EQ)

LOADING- 1. 2. 5. 6.
FACTOR - 1.00 1.00 1.00 1.00

LOAD COMBINATION NO. 32
1.0 (PP+CM+CVINST+EQ)

LOADING- 1. 2. 4. 6.
FACTOR - 1.00 1.00 1.00 1.00

***** END OF DATA FROM INTERNAL STORAGE *****

343. LOAD LIST 20 TO 28
344. PARAMETER 1
345. CODE LRFD
346. FU 45700 ALL
347. FYLD 35150 ALL
348. CHECK CODE ALL

STAAD.Pro CODE CHECKING - (LRFD 3RD EDITION) v1.0

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
1	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.258	28
		6.82 C	-7.36	-4.49	0.00
2	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.281	28
		20.11 C	-7.76	-4.29	0.00
3	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.281	28
		20.05 C	-7.90	-4.06	0.00
4	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.295	28
		13.18 C	-8.33	-4.85	0.00
5	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.301	25
		15.30 C	8.45	4.88	0.00
6	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.295	28
		25.24 C	-7.91	-4.65	0.00
7	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.319	25
		37.58 C	8.39	4.51	0.00
8	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.376	28
		61.49 C	-7.97	-7.81	0.00
9	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.407	25
		75.09 C	9.07	6.77	0.00
10	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.354	25
		26.44 C	9.97	4.89	0.00
11	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.289	28
		25.66 C	-7.94	-4.11	0.00
12	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.296	25
		27.79 C	8.01	4.33	0.00
13	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.405	28
		50.94 C	5.67	15.92	3.90
14	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1A-C	0.443	20
		111.81 C	-0.14	-17.30	3.90
15	ST	W14X90	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.335	25
		24.09 C	9.83	3.91	0.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
16	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.249	25
		15.89 C	7.33	3.01	0.00
17	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.283	28
		15.92 C	-8.34	-3.66	0.00
18	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.472	28
		47.19 C	7.11	18.52	3.90
19	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.439	26
		58.46 C	6.85	-15.43	3.90
20	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.348	25
		19.86 C	9.88	5.20	0.00
21	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.294	25
		8.11 C	8.79	4.25	0.00
22	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.350	27
		16.43 C	-7.85	9.94	3.90
23	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.423	25
		19.92 C	10.39	10.12	0.00
24	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.365	25
		7.06 C	10.56	6.32	0.00
25	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.360	21
		0.24 C	0.63	7.80	0.00
26	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.335	21
		0.24 C	0.32	8.80	0.00
27	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.288	21
		0.24 C	0.17	8.17	0.00
28	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.380	25
		0.13 C	1.04	6.01	0.00
29	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.590	21
		0.48 C	0.67	14.85	0.00
30	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.313	21
		0.24 C	0.32	8.10	0.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
31	ST W21X68	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.683	20
			0.00	56.45	0.00
32	ST W16X36	PASS	(AISC SECTIONS)		
		0.19 C	LRFD-H1-1B-C	0.699	25
			1.12	15.75	0.00
33	ST W16X36	PASS	(AISC SECTIONS)		
		0.53 C	LRFD-H1-1B-C	0.614	21
			0.67	15.64	0.00
34	ST W21X68	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.746	20
			0.00	61.68	0.00
35	ST W16X36	PASS	(AISC SECTIONS)		
		0.18 C	LRFD-H1-1B-C	0.693	25
			1.12	15.57	0.00
36	ST W16X40	PASS	(AISC SECTIONS)		
		0.30 C	LRFD-H1-1B-C	0.385	21
			0.73	9.94	0.00
37	ST W16X36	PASS	(AISC SECTIONS)		
		0.31 C	LRFD-H1-1B-C	0.289	21
			0.28	7.58	0.00
38	ST W21X68	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.814	20
			0.00	67.27	0.00
39	ST W16X36	PASS	(AISC SECTIONS)		
		0.22 C	LRFD-H1-1B-C	0.800	25
			1.12	18.96	0.00
40	ST W16X40	PASS	(AISC SECTIONS)		
		0.36 C	LRFD-H1-1B-C	0.275	21
			0.32	8.22	0.00
41	ST W16X40	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.720	20
			0.00	26.41	0.00
42	ST W16X40	PASS	(AISC SECTIONS)		
		0.17 C	LRFD-H1-1B-C	0.484	25
			1.21	10.81	0.00
43	ST W16X36	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.588	28
			0.00	8.18	6.00
44	ST W16X36	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.532	28
			0.00	7.39	6.00
45	ST W16X36	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.610	28
			0.00	8.47	6.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
46	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.724	28
		0.00 C	0.00	10.06	6.00
47	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.543	28
		0.00 C	0.00	7.55	6.00
48	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.549	28
		0.00 C	0.00	7.63	6.00
49	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.450	25
		0.00 C	0.00	7.76	0.00
50	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.726	28
		0.00 C	0.00	10.09	6.00
51	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.551	28
		0.00 C	0.00	7.66	6.00
52	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.603	28
		0.00 C	0.00	8.38	6.00
53	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.659	25
		0.00 C	0.00	9.15	0.00
54	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.352	25
		0.12 C	0.06	9.65	0.00
55	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.759	28
		0.00 C	0.00	10.55	6.00
56	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.781	28
		0.00 C	0.00	10.86	6.00
57	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.726	25
		0.00 C	0.00	10.08	0.00
58	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.725	28
		0.00 C	0.00	10.07	6.00
59	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.666	28
		0.00 C	0.00	9.26	6.00
60	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.667	28
		0.00 C	0.00	9.27	6.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
61	ST W16X36	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.617	25
			0.00	8.58	0.00
62	ST W16X36	PASS	(AISC SECTIONS)		
		0.04 T	LRFD-H1-1B-T	0.165	24
			-0.23	-3.91	0.00
63	ST W16X36	PASS	(AISC SECTIONS)		
		0.23 C	LRFD-H1-1B-C	0.385	24
			0.62	8.67	2.00
64	ST W16X36	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.291	20
			0.00	-9.31	0.00
65	ST W16X36	PASS	(AISC SECTIONS)		
		0.48 C	LRFD-H1-1B-C	0.611	24
			0.66	15.60	2.00
66	ST W16X36	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.291	20
			0.00	-9.30	0.17
67	ST W16X36	PASS	(AISC SECTIONS)		
		0.53 C	LRFD-H1-1B-C	0.622	24
			0.66	15.95	2.00
68	ST W16X40	PASS	(AISC SECTIONS)		
		0.04 T	LRFD-H1-1B-T	0.170	24
			-0.28	-4.62	0.00
69	ST W16X40	PASS	(AISC SECTIONS)		
		0.32 C	LRFD-H1-1B-C	0.398	24
			0.72	10.49	2.00
70	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.644	20
			0.00	6.42	6.00
71	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.643	20
			0.00	6.42	6.00
72	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.644	20
			0.00	6.42	0.00
73	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.643	20
			0.00	6.42	0.00
74	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.636	20
			0.00	6.34	0.00
75	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.637	20
			0.00	6.36	0.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
76	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.147	24
		0.02 T	-0.12	-4.02	0.00
77	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.346	24
		0.23 C	0.31	9.22	2.00
78	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.132	24
		0.02 T	-0.12	-3.53	0.00
79	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.438	24
		0.25 C	0.31	12.13	2.00
80	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.150	24
		0.02 T	-0.10	-4.20	0.00
81	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.527	24
		0.31 C	0.27	15.21	2.00
82	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.160	24
		0.02 T	-0.12	-5.14	0.00
83	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.444	24
		0.36 C	0.32	14.44	2.00
84	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.848	20
		0.00 C	0.00	-8.47	3.00
85	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.848	20
		0.00 C	0.00	-8.47	3.00
86	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.848	20
		0.00 C	0.00	-8.46	3.00
87	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.848	20
		0.00 C	0.00	-8.47	3.00
88	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.138	25
		0.03 T	-0.23	-3.05	2.00
89	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.293	28
		0.11 C	0.51	6.37	2.00
93	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.351	20
		0.00 C	0.00	-29.04	2.00

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
94	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.411	20
		0.00 C	0.00	-33.95	2.00
96	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.254	20
		0.00 C	0.00	-21.01	0.00
97	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.625	20
		0.00 C	0.00	51.68	2.00
98	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.635	20
		0.00 C	0.00	6.34	6.00
99	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.600	20
		0.00 C	0.00	-5.99	2.50
100	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.942	25
		6.61 C	0.03	15.05	0.00
103	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.377	20
		0.00 C	0.00	-31.14	2.00
104	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.530	20
		0.00 C	0.00	-43.80	2.00
105	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.530	20
		0.00 C	0.00	-43.80	0.00
106	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.384	20
		0.00 C	0.00	-31.72	0.00
107	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.823	20
		0.00 C	0.00	68.02	2.00
108	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.635	20
		0.00 C	0.00	6.34	0.00
109	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.538	20
		0.00 C	0.00	5.37	0.00
110	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.607	20
		0.00 C	0.00	6.06	6.00
111	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.625	20
		0.00 C	0.00	6.24	6.00

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
112	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.647	20
		0.00 C	0.00	6.46	6.00
113	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.416	20
		0.00 C	0.00	-34.42	2.00
114	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.563	20
		0.00 C	0.00	-46.50	2.00
115	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.563	20
		0.00 C	0.00	-46.50	0.00
116	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.402	20
		0.00 C	0.00	-33.21	0.00
117	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.840	20
		0.00 C	0.00	69.42	2.00
118	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.676	20
		0.00 C	0.00	6.75	6.00
119	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.657	20
		0.00 C	0.00	6.56	6.00
120	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.636	20
		0.00 C	0.00	6.34	6.00
121	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.642	20
		0.00 C	0.00	6.40	6.00
122	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.654	20
		0.00 C	0.00	6.52	6.00
123	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.313	20
		0.00 C	0.00	-11.50	2.00
124	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.445	20
		0.00 C	0.00	-16.32	2.00
125	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.445	20
		0.00 C	0.00	-16.32	0.00
126	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.317	20
		0.00 C	0.00	-11.63	0.00

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
127	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.714	20
		0.00 C	0.00	26.21	2.00
128	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.676	20
		0.00 C	0.00	6.75	0.00
129	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.657	20
		0.00 C	0.00	6.56	0.00
130	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.636	20
		0.00 C	0.00	6.34	0.00
131	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.642	20
		0.00 C	0.00	6.40	0.00
132	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.654	20
		0.00 C	0.00	6.53	0.00
137	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.664	20
		0.00 C	0.00	6.62	6.00
138	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.660	20
		0.00 C	0.00	6.58	6.00
139	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.255	21
		0.00 T	-0.19	-7.07	2.00
140	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.509	24
		0.53 C	0.64	12.48	2.00
141	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.664	20
		0.00 C	0.00	6.62	0.00
142	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.659	20
		0.00 C	0.00	6.58	0.00
143	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.297	21
		0.00 T	-0.18	-8.41	2.00
144	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.556	24
		0.61 C	0.64	13.95	2.00
145	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.671	20
		0.00 C	0.00	6.70	6.00

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
146	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.662	20
		0.00 C	0.00	6.61	6.00
147	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.166	25
		0.06 T	-0.47	-3.40	2.00
148	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.316	28
		0.13 C	1.22	4.59	2.00
149	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.671	20
		0.00 C	0.00	6.70	0.00
150	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.662	20
		0.00 C	0.00	6.61	0.00
211	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.401	28
		0.10 C	1.05	6.63	2.00
212	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.578	28
		0.19 C	1.13	11.82	2.00
213	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.170	25
		0.06 T	-0.39	-3.16	2.00
214	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.285	20
		0.00 C	0.00	-9.10	2.00
217	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.127	25
		0.02 T	-0.08	-3.77	1.50
218	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.296	28
		22.10 C	-8.56	-3.65	0.00
221	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.204	25
		0.06 C	0.51	3.68	0.00
222	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.409	20
		0.00 C	0.00	-33.95	0.00
223	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.234	24
		0.03 C	0.07	4.89	4.50
224	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.310	20
		0.00 C	0.00	-25.71	0.00

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
225	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.230	20
			0.00	-4.78	3.00
226	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.198	20
			0.00	-4.85	0.50
227	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.010	20
			0.00	-0.16	2.25
228	ST W16X36	PASS	(AISC SECTIONS)		
		0.22 C	LRFD-H1-1B-C	0.350	28
			0.18	10.47	1.50
229	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.181	20
			0.00	-4.44	0.00
230	ST W14X30	PASS	(AISC SECTIONS)		
		0.00 C	LRFD-H1-1B-C	0.120	20
			0.00	-1.89	2.25
231	ST W14X90	PASS	(AISC SECTIONS)		
		6.20 C	LRFD-H1-1B-C	0.193	28
			4.81	4.76	3.90
232	ST W14X90	PASS	(AISC SECTIONS)		
		11.96 C	LRFD-H1-1B-C	0.213	28
			6.18	2.89	3.90
233	ST W14X90	PASS	(AISC SECTIONS)		
		11.94 C	LRFD-H1-1B-C	0.205	28
			6.41	1.77	3.90
234	ST W14X90	PASS	(AISC SECTIONS)		
		11.46 C	LRFD-H1-1B-C	0.230	28
			6.96	2.69	3.90
235	ST W14X90	PASS	(AISC SECTIONS)		
		6.24 C	LRFD-H1-1B-C	0.194	28
			6.22	-1.87	3.90
236	ST W14X90	PASS	(AISC SECTIONS)		
		11.67 C	LRFD-H1-1B-C	0.290	25
			-6.77	7.90	3.90
237	ST W14X90	PASS	(AISC SECTIONS)		
		16.70 C	LRFD-H1-1B-C	0.346	25
			-8.03	-9.20	3.90
238	ST W14X90	PASS	(AISC SECTIONS)		
		30.68 C	LRFD-H1-1B-C	0.596	27
			-7.71	28.59	3.90
239	ST W14X90	PASS	(AISC SECTIONS)		
		38.66 C	LRFD-H1-1B-C	0.593	25
			-8.41	-26.22	3.90

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240	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.368	25
		10.45 C	-9.40	-8.66	3.90
241	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.306	28
		13.28 C	5.67	11.31	3.90
242	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.333	25
		11.72 C	-6.67	-11.49	3.90
243	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.720	20
		33.89 C	-0.60	53.22	3.90
244	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.650	25
		41.37 C	-8.18	-30.98	3.90
245	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.353	25
		9.80 C	-9.16	-8.05	3.90
246	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.179	27
		4.49 C	-4.44	4.53	3.90
247	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.259	21
		4.27 C	-4.06	-11.72	3.90
248	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.412	28
		9.48 C	-4.29	-23.06	0.00
249	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.459	25
		17.80 C	6.87	20.63	0.00
250	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.278	25
		6.90 C	7.17	6.50	0.00
255	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.433	21
		0.50 C	1.33	6.01	0.00
256	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.353	25
		0.24 C	0.85	6.25	0.00
257	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.306	25
		0.25 C	0.70	5.63	0.00
258	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.463	25
		0.26 C	1.53	5.78	0.00

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259	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.648	21
		1.03 C	1.42	12.28	0.00
260	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.299	25
		0.20 C	0.85	4.54	0.00
261	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.647	25
		1.07 C	1.82	40.99	0.00
262	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.859	25
		0.44 C	1.90	20.62	0.00
263	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.695	21
		1.23 C	1.42	13.76	0.00
264	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.654	25
		1.06 C	1.82	41.58	0.00
265	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.885	25
		0.42 C	1.90	21.55	0.00
266	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.509	21
		0.75 C	1.33	8.39	0.00
267	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.129	21
		0.02 C	0.01	4.04	0.00
268	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.645	25
		0.68 C	0.83	18.86	0.00
269	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.523	25
		0.30 C	1.53	7.68	0.00
273	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.411	28
		0.00 C	0.00	5.71	6.00
274	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.364	28
		0.00 C	0.00	5.06	6.00
275	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.399	28
		0.00 C	0.00	5.55	6.00
276	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.532	28
		0.00 C	0.00	7.39	6.00

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277	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.365	25
		0.00 C	0.00	5.08	0.00
278	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.430	28
		0.00 C	0.00	5.97	6.00
280	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.528	28
		0.00 C	0.00	7.34	6.00
281	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.370	28
		0.00 C	0.00	5.14	6.00
282	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.428	28
		0.00 C	0.00	5.95	6.00
284	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.607	28
		0.00 C	0.00	8.43	6.00
285	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.546	28
		0.00 C	0.00	7.59	6.00
286	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.580	28
		0.00 C	0.00	8.07	6.00
288	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.515	28
		0.00 C	0.00	7.16	6.00
289	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.446	28
		0.00 C	0.00	6.20	6.00
290	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.544	28
		0.00 C	0.00	7.56	6.00
292	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.207	24
		0.08 T	-0.51	-3.65	0.00
293	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.470	24
		0.47 C	1.28	7.48	2.00
294	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.323	24
		0.01 T	-0.42	-7.90	0.00
295	ST	W16X36	(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.669	24
		1.03 C	1.37	13.24	2.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
296	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.349	24
		0.03 T	-0.42	-8.70	0.00
297	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.692	24
		1.20 C	1.37	13.98	2.00
298	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.238	24
		0.06 T	-0.51	-4.63	0.00
299	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.485	24
		0.75 C	1.28	7.93	2.00
300	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.564	20
		0.00 C	0.00	5.62	6.00
301	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.548	20
		0.00 C	0.00	5.47	6.00
302	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.564	20
		0.00 C	0.00	5.62	0.00
303	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.626	20
		0.00 C	0.00	6.24	6.00
304	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.554	20
		0.00 C	0.00	5.53	0.00
305	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.626	20
		0.00 C	0.00	6.25	0.00
306	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.154	28
		0.05 T	-0.31	-3.11	0.00
307	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.364	28
		0.21 C	0.85	6.62	2.00
308	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.114	28
		0.05 T	-0.31	-1.83	0.00
309	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.558	28
		0.22 C	0.85	12.79	2.00
310	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.089	24
		0.00 C	0.01	2.80	2.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
311	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.204	24
		0.02 C	0.01	6.44	2.00
314	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.748	20
		0.00 C	0.00	-7.46	3.00
315	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.748	20
		0.00 C	0.00	-7.46	3.00
318	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.142	25
		0.05 T	-0.34	-2.55	2.00
319	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.339	28
		0.22 C	0.81	6.08	2.00
320	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.390	20
		0.00 C	0.00	-32.25	2.00
321	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.524	25
		0.22 T	-1.79	-31.15	2.00
322	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.363	20
		0.00 C	0.00	-29.97	0.00
323	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.710	28
		1.08 C	2.02	44.77	2.00
324	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.515	20
		0.00 C	0.00	-5.14	2.50
325	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.578	20
		0.00 C	0.00	-5.77	2.50
326	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.848	25
		9.98 C	0.02	12.89	0.00
327	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.462	20
		0.00 C	0.00	-38.23	2.00
328	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.593	20
		0.00 C	0.00	-48.99	2.00
329	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.593	20
		0.00 C	0.00	-48.99	0.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
330	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.411	20
		0.00 C	0.00	-33.94	0.00
331	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.785	20
		0.00 C	0.00	64.86	2.00
332	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.509	20
		0.00 C	0.00	5.08	0.00
333	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.504	20
		0.00 C	0.00	5.03	6.00
334	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.586	20
		0.00 C	0.00	5.85	6.00
335	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.501	20
		0.00 C	0.00	5.00	6.00
336	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.560	20
		0.00 C	0.00	5.58	6.00
337	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.281	20
		0.00 C	0.00	-10.30	2.00
338	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.415	25
		0.15 T	-0.71	-11.16	2.00
339	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.419	28
		0.12 T	-0.73	-11.16	0.00
340	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.271	20
		0.00 C	0.00	-9.95	0.00
341	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.680	28
		0.63 C	0.92	19.65	2.00
342	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.517	20
		0.00 C	0.00	-5.15	3.50
343	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.517	20
		0.00 C	0.00	-5.16	3.50
344	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.585	20
		0.00 C	0.00	5.84	0.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
345	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.518	20
		0.00 C	0.00	-5.17	3.50
346	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.560	20
		0.00 C	0.00	5.59	0.00
357	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.643	20
		0.00 C	0.00	6.41	6.00
358	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.635	20
		0.00 C	0.00	6.34	6.00
359	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.282	21
		0.00 T	-0.41	-7.97	2.00
360	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.520	28
		0.42 C	1.92	8.05	2.00
361	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.648	20
		0.00 C	0.00	6.46	6.00
362	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.635	20
		0.00 C	0.00	6.34	6.00
363	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.190	25
		0.09 T	-0.57	-2.74	2.00
364	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.447	28
		0.23 C	1.55	5.16	2.00
365	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.648	20
		0.00 C	0.00	6.46	0.00
366	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.635	20
		0.00 C	0.00	6.34	0.00
371	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.445	28
		0.21 C	1.55	5.12	2.00
372	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.537	28
		0.44 C	1.92	8.66	2.00
373	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.196	25
		0.09 T	-0.57	-2.91	2.00

ALL UNITS ARE - MTON METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
374	ST W16X40		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.286	25
		0.01 T	-0.58	-7.19	2.00
376	ST W14X90		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.382	28
		12.81 C	12.90	2.17	3.90
377	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.332	25
		0.24 C	0.87	5.46	0.00
378	ST W21X68		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.529	28
		0.24 T	-1.84	-31.15	0.00
379	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-T	0.154	28
		0.05 T	-0.36	-2.81	0.00
381	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.558	20
		0.00 C	0.00	-5.56	2.50
382	ST W16X36		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.328	28
		0.21 C	0.78	5.87	2.00
383	ST W14X30		(AISC SECTIONS)		
		PASS	LRFD-H1-1B-C	0.537	20
		0.00 C	0.00	5.36	6.00

***** END OF TABULATED RESULT OF DESIGN *****

349. STEEL TAKE OFF ALL

STAAD SPACE

-- PAGE NO. 95

STEEL TAKE-OFF

PROFILE	LENGTH(METE)	WEIGHT (MTON)
ST W14X90	179.40	24.026
ST W16X36	336.00	18.000
ST W21X68	60.00	6.065
ST W16X40	72.00	4.294
ST W14X30	393.00	17.577

	TOTAL =	69.962

***** END OF DATA FROM INTERNAL STORAGE *****

350. FINISH

***** END OF THE STAAD.Pro RUN *****

**** DATE= JAN 10,2018 TIME= 12:52: 8 ****

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*****  
*   For technical assistance on STAAD.Pro, please visit   *  
*   http://selectservices.bentley.com/en-US/                 *  
*                                                         *  
*   Details about additional assistance from               *  
*   Bentley and Partners can be found at program menu    *  
*   Help->Technical Support                               *  
*                                                         *  
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