



MINISTERIO DE FOMENTO

SECRETARÍA DE ESTADO DE PLANIFICACIÓN E  
INFRAESTRUCTURAS

SECRETARÍA GENERAL DE INFRAESTRUCTURAS

DIRECCIÓN GENERAL DE INFRAESTRUCTURAS  
FERROVIARIAS

**"ENCOMIENDA DE GESTIÓN DEL MINISTERIO DE FOMENTO -  
SECRETARÍA DE ESTADO DE PLANIFICACIÓN E INFRAESTRUCUTRAS  
(DIRECCIÓN GENERAL DE INFRAESTRUCUTRAS FERROVIARIAS) A LA  
SOCIEDAD MERCANTIL ESTATAL INGENIERÍA Y ECONOMÍA DEL  
TRANSPORTE, S.A. PARA LA REALIZACIÓN DE INSPECCIONES,  
PRUEBAS DE CARGA Y AUSCULTACIÓN EN PUENTES Y  
ESTRUCTURAS"**

**EXPEDIENTE: 200900828**



DOCUMENTO:

**INFORME DE PRUEBA DE CARGA**

**ESTRUCTURA 2 DE LA SUPRESIÓN DE PASO A NIVEL EN CASETAS  
(ZARAGOZA)**

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## **1.- INTRODUCCIÓN**

### ***1.1.- ANTECEDENTES***

A instancias de la Dirección General de Infraestructuras Ferroviarias (DGIF), de la Secretaría de Estado de Planificación e Infraestructuras del Ministerio de Fomento, se redacta el presente documento, cuyo objetivo es la especificación de la prueba de carga previa a la puesta en servicio de la Estructura 2 de la Supresión del Paso a Nivel en Casetas (Zaragoza), de la línea Zaragoza – Alsasua P.K. 15/717, previa a la recepción de las obras.

La elaboración del presente documento se inscribe dentro del marco del contrato de “Encomienda de gestión del Ministerio de Fomento – Secretaría de Estado de Planificación e infraestructuras (Dirección General de Infraestructuras Ferroviarias) a la sociedad mercantil estatal de Ingeniería y Economía del Transporte, S.A. para la realización de inspecciones, pruebas de carga y auscultaciones en puentes y estructuras” suscrito por **INECO** con la citada Dirección.

### ***1.2.- OBJETO DEL INFORME***

El objeto del informe es presentar las actividades de prueba de carga desarrolladas en la obra de referencia, exponiendo los resultados obtenidos en la misma, al ser solicitada la estructura por un tren de cargas conocido en varias posiciones conocidas de velocidad nula (pruebas estáticas), realizando su análisis, con el fin de emitir las conclusiones y recomendaciones oportunas, al contrastar los valores con los resultantes del cálculo teórico efectuado.

Las actividades desarrolladas consistieron en:

- Inspección preliminar de la estructura. Se realizó el pasado día 17 de Diciembre de 2009 con el objeto de analizar el estado actual de la estructura, y de los elementos de apoyo, en función de sus posibles defectos; así como



determinar aquellas anomalías que puedan afectar al funcionamiento, durabilidad o estética de la estructura.

- Redacción del plan de pruebas. Con el objeto de definir el tren de cargas empleado y la instrumentación utilizada, así como efectuar una previsión de los resultados a obtener.
- Realización de la Prueba de Carga. Tuvo lugar los días 23 y 24 de enero de 2010.
- Análisis de Resultados y Recomendaciones. Donde se estudia la relación entre las deformaciones obtenidas y las previstas, el porcentaje y rapidez de deformación; y finalmente se establece un juicio sobre el comportamiento de la obra durante la prueba.

### **1.3.- JUSTIFICACIÓN DE LA PRUEBA DE CARGA**

La ITPF-05 (Instrucción sobre las Inspecciones Técnicas en los Puentes de Ferrocarril) de fecha 10 de junio de 2005, reglamenta en el capítulo 4 la metodología (objeto, alcance, periodicidad, personal, criterios de aceptación) a realizar en las pruebas de carga de puentes, haciendo distinción entre las diferentes tipologías, metálicos y de fábrica, y teniendo en cuenta sus luces.

En dicho capítulo se indica la necesidad de realizar pruebas de cargas estáticas y dinámicas en la recepción de obra nueva y se prescriben las condiciones para las pruebas de carga de obra en servicio. Siguiendo la instrucción actual, se contempla la obligatoriedad de la realización de pruebas estáticas y dinámicas en puentes en servicio, como el que se corresponde con el presente informe, para comprobar su comportamiento ante las cargas previstas.

Recientemente se ha elaborado un documento conjunto “Monografía M-9 de ACHE – Prueba de Carga de Estructuras” entre las empresas más especializadas en pruebas de carga en España (Grupo de Trabajo 4/3) el que se recoge de forma detallada el proceso de preparación, realización e interpretación de las Pruebas de Carga.



## **2.- DESCRIPCIÓN DE LA ESTRUCTURA**

La estructura objeto de este proyecto es un paso superior sobre la Línea Zaragoza - Alsasua P.K. 15/717, en el termino municipal de Casetas provincia de Zaragoza.

Consiste en una estructura compuesta por tres vanos isostáticos de luces 16,30 m – 20,90 m – 16,30 m entre ejes de apoyo siendo la longitud total del puente de 53,50 metros. Se trata de una estructura esviada, con un esviaje de 6,803°. La sección superior está formada por dos carriles de 3,50 metros de anchura, dos arcenes de 1,00 metros y dos aceras de 1,80 metros.

La sección transversal del tablero estará formada por 8 vigas prefabricadas pretensadas con sección tipo de doble T y un canto de 0,90 metros. Sobre ellas y siendo la cabeza de compresión de las mismas, se dispone una losa de hormigón armado con un espesor mínimo de 0,20 metros, con una anchura de 14,00 metros.

El dintel está soportado por tres pilas circulares de 1,00 metros de diámetro, con cimentación profunda mediante tres pilotes circulares de 1,25 metros de diámetros y 25 metros de longitud. Los aparatos de apoyo que lo sustentan son de neopreno zunchado de dimensiones 200x250x52 mm.

Los estribos serán cerrados con muros en vuelta, sobre cada uno descansarán 8 apoyos de neopreno zunchado de dimensiones 200x250x52 mm. La altura de los muros estará entorno a 8,75 metros para el estribo 1 y entorno a 7,57 metros para el estribo 2. Se cimentarán mediante 8 pilotes, de 1,25 m de diámetro y 25 m de longitud, y encepado.

La documentación facilitada es de Apéndice 2 del Proyecto Constructivo (Modificación nº1) de Supresión de los Pasos a Nivel de las Líneas Madrid – Barcelona, P.K. 327/514 Y Zaragoza – Alsasua, P.K. 15/717, En Casetas (Zaragoza). En el caso de este Paso Superior PS-02 que nos ocupa, se dispone de los planos del proyecto construido correspondiente y del anejo de cálculo de la estructura, proporcionado por la UTE CASETAS.



### **3.- ACTUACIONES PREVIAS A LA PRUEBA DE CARGA**

En este apartado se indican los trabajos previos que se realizan para comprobación de la adecuación de la estructura a la definición de proyecto, detección de los daños e irregularidades iniciales que pudieran presentar, y evaluación de su diseño en relación con la correcta aplicación y seguimiento de la normativa vigente

#### ***3.1.- INSPECCIÓN PRELIMINAR***

La inspección previa a la realización de la Prueba de Carga fue realizada por el Ingeniero de Caminos de INECO, D. Pablo Sánchez Gareta, en fecha 17 de Diciembre de 2009, junto con el Ingeniero Técnico de Obras Públicas de la DGF, D. Juan Carlos Aceituno Pinilla. Se indican a continuación los resultados de dicha inspección para cada uno de los aspectos considerados:

- 1 Ubicación y entorno: La obra no presenta especiales problemas de comunicación. La estructura constituye un paso superior sobre la línea Zaragoza - Alsasua.
- 2 La accesibilidad a la estructura es buena. A pesar de ello, para la instrumentación de la estructura será preciso el empleo de un camión grúa o similar.
- 3 Estado de los elementos estructurales: No se detectaron anomalías que pudieran afectar significativamente a la capacidad portante de la estructura.
- 4 Geometría y tipología de la estructura: Durante la Inspección Preliminar se observó que, la documentación de Proyecto facilitada se correspondía con la obra ejecutada.
- 5 Dificultades y viabilidad para la realización de la Prueba de Carga: La única dificultad reseñada es el empleo del citado camión grúa o similar para la instrumentación de la estructura. Además, será necesaria el corte del suministro eléctrico de la catenaria para poder ejecutar la instrumentación y prueba del vano 02.

#### ***3.2.- ANÁLISIS DE LA DOCUMENTACIÓN DE LA ESTRUCTURA***

La documentación de Proyecto facilitada consta del Anejo de Cálculo de la estructura y los planos cuya copia se incluye en el Anejo I del presente documento.



Basándose en esta documentación se ha realizado una evaluación del cálculo estructural del viaducto, con resultados favorables partiendo de las siguientes premisas:

- Las acciones consideradas en el proyecto de la estructura son acordes con las especificaciones de la “Instrucción sobre las acciones a considerar en el proyecto de puentes de carretera”.
- Las características de los materiales y los coeficientes de cálculo adoptados son acordes con lo especificado en la EHE.
- El proceso de cálculo de esfuerzos y dimensionado se ha realizado de acuerdo con la Normativa en vigor.
- El dimensionado que figura en los planos es acorde a los cálculos realizados respetando los niveles de seguridad establecidos.

#### **4.- PLANIFICACIÓN DE LA PRUEBA DE CARGA**

La prueba de carga se realiza con acciones reproducidas por trenes de pruebas para este propósito.

##### ***4.1.-ACCIONES REPRODUCIDAS.***

La prueba de carga contempla tanto acciones estáticas como dinámicas, con el fin de reproducir en la misma todo el abanico de posibles solicitaciones a las que pueda estar sometido el puente a lo largo del tiempo.

La materialización prevista de la carga se realiza mediante la utilización de 4 camiones de 3 ejes de 26 toneladas, ajustándose a la definición que figura en el plano “Situación de las cargas de prueba” que puede consultarse en el Anejo III de este informe.

Las acciones que se pretenden reproducir, como se ha indicado anteriormente son aquellas propias de la utilización de la obra y consisten en varias posiciones de carga estática en los diferentes vanos que conforman la estructura y una serie de ensayos con el tren de cargas circulando sobre el puente a distintas velocidades.



Para las pruebas dinámicas se hará uso del tren de carga formado por un camión de tres ejes de 26 toneladas, circulando por el puente a distintas velocidades. Se realizarán un total de tres ensayos por vano: ensayo cuasiestático, ensayo dinámico rápido y ensayo dinámico rápido sobre tablero RILEM.

#### **4.2.- PLAN DE CARGA.**

El programa de instrumentación que se define recoge todas aquellas secciones en las que se ha considerado necesario conocer las tensiones y deformaciones producidas por las cargas actuantes.

Los puntos de medida se sitúan en los elementos y secciones fundamentales del tablero que compone la obra, conforme a lo establecido en el ANEJO III, donde se señalan todos los puntos instrumentados, diferenciándolos según se trate de transductores de desplazamiento, galgas extensométricas o acelerómetros.

Con esta instrumentación se han buscado las medidas siguientes:

- Descensos verticales, a  $L/2$  de la luz del tablero.
- Descensos verticales, en apoyos.
- Tensiones, a  $L/2$  de la luz del tablero.
- Aceleraciones del tablero al paso del tren de carga.

Por lo tanto, como resumen, cabe señalar que se han dispuesto: 3 medidas de flechas a  $L/2$ , 3 medidas de descenso de apoyos, 3 medidas de tensión a  $L/2$  en el tablero y 1 acelerómetro, por vano. El número total de puntos instrumentados en el puente es de 30 (10 puntos por vano). La instrumentación realizada coincide con respecto a la indicada en el proyecto de prueba de carga.

#### **4.3.- EQUIPOS UTILIZADOS.**

Para la realización de pruebas de carga, el conjunto de los equipos de campo embarcados en furgonetas laboratorio, utilizados por INECO para la toma de datos



experimentales en cada puente ó estructura, está constituido por los elementos que se relacionan a continuación, pudiéndose ver detalle de los equipos utilizados en campo, así como de los medios auxiliares empleados en la instrumentación en las fotografías finales que se presentan.

Debemos indicar que todos los equipos que se relacionan se encuentran en periodo vigente de verificación y/o calibración.

Comenzando por los elementos sensores, se utilizan galgas extensométricas para medida de deformaciones unitarias, transductores de desplazamiento para flechas y corrimientos en apoyos y acelerómetros para obtención de acelerogramas, con las siguientes características:

- GALGAS EXTENSOMÉTRICAS (TML). Resistencia nominal 120 ohmios y factor de galga 2,13. Longitud activa de 3 y 6 mm en estructuras metálicas y de 30 a 120 mm. en estructuras de hormigón, para medida de deformaciones unitarias y, por lo tanto, de tensiones.
- TRANSDUCTORES DE DESPLAZAMIENTO (RDP Electronics, ACT2000/C – TIPO inductivo): Recorrido 100 mm. Resolución virtualmente infinita. Linealidad +/- 0,1%.
- TRANSDUCTORES DE DESPLAZAMIENTO (Penny & Giles L C P U – TIPO potenciométrico): Recorrido 50 y 100 mm. Resolución virtualmente infinita. Linealidad +/- 0,5%.
- TRANSDUCTORES DE DESPLAZAMIENTO (Penny & Giles HLP190 - TIPO potenciométrico): Recorridos 100 mm (SA1100/4k); 50 mm (SA150/2k) y 25 mm (SA125/1k). Resolución virtualmente infinita. Linealidad de 0.05 % para los de 100 y +/- 0,075% para el resto.
- TRANSDUCTORES DE DESPLAZAMIENTO (SAN-EI E08-D3-30 Y E08-D3-50 - TIPO extensométrico). Recorridos de 30 y 50 mm. Resolución virtualmente infinita. Linealidad +/- 0,2%.



- TRANSDUCTORES DE DESPLAZAMIENTO (APEK HLS 10 - TIPO extensométrico): Recorrido de 10 mm. Resolución virtualmente infinita. Linealidad +/- 0,05%.
- ACELEROMETROS PIEZORRESISTIVOS (SENSOTEC JTF-AG111): Rango 10/50 g, sensibilidad 10 mV/g, linealidad +/- 1% de F.S. Respuesta en frecuencia desde DC a 250 Hz. Alimentación a 2,5 V. (rms).
- ACELEROMETROS CAPACITIVOS (PCB PIEZOTRONICS 3701): Rango 20 g, sensibilidad 100 mV/g, linealidad +/- 1% de F.S. Respuesta en frecuencia DC a 500 Hz. Alimentación 5 A 30 VDC.

El sistema de medida continúa con los acondicionadores de señal, que realizan el tratamiento y amplificación de las señales obtenidas en los diferentes sensores, generando salidas normalizadas para su registro posterior. El equipamiento utilizado es el siguiente:

- ACONDICIONADORES DE SEÑAL (SAN-EI 6 M 47-8): Excitación del puente 2,5 V., 5 K Hz. Salida  $\pm 2V$ . Balanceo automático de puente. Relación señal ruido 50 dB (rms). Filtro pasabajos de tres polos. Corriente de alimentación 12 V. DC. Frecuencia de respuesta desde DC a 2 KHz. Realizan el acondicionamiento preciso para galgas extensométricas y transductores basados en extensometría.
- ACONDICIONADORES DE SEÑAL (SAN-EI AH 1108): Excitación del puente 2 V (rms), 5 K Hz. Salida +/- 5 V. Balanceo automático de puente. Relación señal ruido 58 dB (rms). Filtro pasabajos de tres polos. Alimentación AC/DC. Frecuencia de respuesta desde DC a 2 KHz. Acondicionamiento extensométrico.
- ACONDICIONADORES DE SEÑAL (KINOSSEL KI5000): Linealidad 0,1%. Estabilidad mayor que 0,05 % ° C<sup>-1</sup>. Filtros 10, 100 y 1000 Hz. Balanceo automático. Salida +/- 5 V. Alimentación en AC/DC. Acondicionamiento potenciométrico.



- ACONDICIONADORES DE SEÑAL (RDP Electronics, modular 600): Rack multicanal con, 12 tarjetas bicanal. Alimentación en AC, excitación configurable hasta 15 V DC. Display 5 dígitos, selector individual de los 24 canales, exactitud 0.1% F.S., linealidad  $\pm 0.05\%$  F.S. Implementación de 11 tarjetas 611, STRAIN GAUGE & DC/DC (transductores potenciométricos y de tipo general con electrónica incorporada y extensométricos, mediante doble electrónica): 10 Rangos de señal de entrada 5mV a 10V; Salida  $\pm 10$  V.; Ganancia  $\times 0.5$  a  $\times 2000$ ; Balanceo manual; Frecuencia de respuesta desde DC a 200 Hz. Se complementa con 1 tarjeta 621, LVDT & INDUCTIVE TRANSDUCER (Transductores de tipo general LVDT): 8 rangos de señal 12 mV a 4 V; salida  $\pm 10$  V; Ganancia  $\times 1$  a  $\times 2000$ ; Balanceo manual; Frecuencia de respuesta desde DC a 500 Hz. Flat. Temperatura de compensación en todos los canales inferior a 0.005 % FS/°C.

Una vez realizado el tratamiento y amplificación de las señales obtenidas en los diferentes sensores, se realiza su control y registro mediante el siguiente equipamiento:

- ORDENADORES DE CONTROL:
  - Microprocesadores Pentium II/III a distintas velocidades. Bus PCI (5 Zoc. PCI, 3 ISA, Green PC)
  - Memoria RAM mínima de 64 Mb.
  - Unidad de disco flexible de 3 ½
  - Discos duro fijo primario superior 2 Gb. Controladora PCI-IDE.
  - Unidad CD-ROM 24X (Mín). Controladora PCI-IDE.
  - Monitor Super VGA COLOR. Tarjeta 2 Mb. PCI (1280-1024).
  - Disco secundario removible superior a 2,01 Gb. (PCI-IDE).
  - Tarjeta de red.
- TARJETAS DE ADQUISICIÓN DE DATOS (National Instruments):



- Multifunción de alta velocidad AT-MIO-64 F-5 (2 Ud), con 64 canales de entrada analógica simple o 32 diferenciales.
- Velocidad máxima de muestreo de 200.000 muestras/seg.
- 8 líneas digitales I/O y tres relojes contadores.
- 2 canales de transferencia DMA.
- Ganancia programable: 0.5, 1, 2, 5,10, 20, 50,100.
- Convertidor A/D de 12 bits.
- Ocupación de un Slot ISA en ordenador de control.
- TARJETAS DE ADQUISICIÓN DE DATOS (National Instruments):
  - Multifunción de alta velocidad AT-MIO-64 E-3 (1 Ud), con 64 canales de entrada analógica simple o 32 diferenciales.
  - Resto de características igual que las anteriores pero con una Velocidad máxima de muestreo de 300.000 muestras/seg.

Como equipos adicionales para la ejecución de las pruebas también disponemos de los siguientes aparatos:

- RACK PRINCIPAL, DEFINIDO COMO SISTEMA DE ADQUISICIÓN MODELO CRONOS-PL-16 DE IMC CON LAS SIGUIENTES CARACTERÍSTICAS TÉCNICAS (2 UNIDADES):
  - Contiene 16 slots libres para módulos de acondicionamiento.
  - Sincronización de tiempo entre todos los canales analógicos y digitales.
  - UPS con un buffer de 30 segundos (hasta 5 minutos como opción)
  - El mainframe dispone de conexión mediante Ethernet TCP/IP
  - Dispone de un controlador HD para memoria tipo flash card.
  - Alimentación: 10-36 VDC ó 230 VAC.



-Condiciones de funcionamiento: 5 a 40°C; 5 a 95% de humedad relativa

-Manual de operación en inglés y certificado de calibración.

-Incluye IMC device software. Este software sólo permite realizar el set-up de los sistemas de medida IMC basados en Ethernet (habilitación de canales, rango de muestreo, duración de la medida, trigger, configuración del almacenamiento...)

- MÓDULOS PARA EXTENSOMETRÍA (12 UDS – 48 CANALES), MODELO CRPL/BR-4 MARCA IMC CON LAS SIGUIENTES CARACTERÍSTICAS TÉCNICAS:

-4 canales de entrada con muestreo simultáneo para conexión de señales de puente extensométrico.

-Alimentación del puente en DC/CF.

-Máxima frecuencia de muestreo por canal: 20KS/s

-Ancho de banda: 2,5 Khz en modo CF (10 Khz en operación CF)

-Puente completo, medio puente, cuarto puente a través de

-Rango de medida para puente:  $\pm 1\text{mV/V}$  a  $\pm 1000\text{mV/V}$

-Rango de medida para tensión DC:  $\pm 5\text{mV}$  a  $\pm 5\text{V}$

-Filtro anti-aliasing, paso bajo, Butterworth de sexto orden, ancho de banda de 2Hz a 5Khz ajustable

-Conector: CRON/DSUB-BR-4-BR (2 x 15 pines en grupos de 2 canales)

- MÓDULO PARA VOLTAJE (8 UDS – 32 CANALES), MODELO CRPL/LV-8 MARCA IMC CON LAS SIGUIENTES CARACTERÍSTICAS TÉCNICAS:

-4 canales de entrada con muestreo simultáneo.



-Frecuencia de muestreo: 20 KHz

-Ancho de banda:10KHz

-Rango de entrada de tensión:

-1.Tensión:  $\pm 250$  mV a  $\pm 50$ V

-2.Corriente: $\pm 5$ mA a  $\pm 50$ mA

-Filtro anti-aliasing, paso bajo, Butterworth de sexto orden, ancho de banda de 10Hz a 5KHz ajustable.

-Conector: CRON/DSUB-Voltage/Current (2x 15 pines en grupos de 4 canales).

- TARJETAS EXTRAÍBLES PCMCIA, PARA REGISTRO DE DATOS

-Flash Cards 1,0 GB y 256 MB.

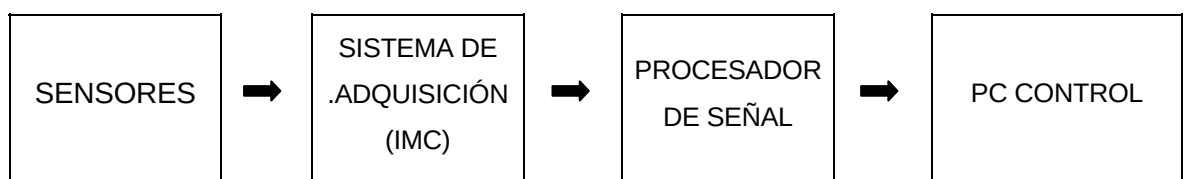
- SOFTWARE ONLINE-FAMOS PARA PROCESAMIENTO DE DATOS ONLINE (1 UD MULTILICENCIA).

-Procesador de señal para generación/visualización/almacenamiento matemático de canales en tiempo real.

-Cálculo de hasta 100 funciones on-line.

SOFTWARE IMC-FAMOS PARA ANÁLISIS DE SEÑAL (2 UD CON UNA LICENCIA CADA UNA).

Como síntesis del sistema conjunto se puede presentar el siguiente esquema funcional explicativo:





La señal producida en cada punto instrumentado, galga extensométrica, transductor de desplazamiento o acelerómetro, es filtrada y amplificada por los acondicionadores de señal.

La estabilidad de las medidas con galgas extensométricas a largo plazo está asegurada por la disposición de puentes de Wheatstone completos en cada punto de medida, evitando así la aparición de todo problema de deriva.

Las señales amplificadas, analógicas, son captadas por las tarjetas de adquisición de datos e introducidas en el ordenador de control, que realiza registro de las mismas, así como el tratamiento y presentación de datos para la visualización y seguimiento de las pruebas realizadas.

Comentar por último que durante las pruebas se efectúa el control continuo de las condiciones de temperatura y humedad ambientales.

El software de presentación de datos en campo permite la visualización de las medidas netas correspondientes a cada punto de medida en unidades físicas escaladas, numérica y gráficamente, siendo en tiempo real para las pruebas estáticas e inmediatamente tras su finalización en las de carácter dinámico.

En gabinete, una vez recopilados los registros de calidad de los ensayos, se comprueban sobre los formularios todos los datos, identificando los puntos de medida, los traductores empleados, las calibraciones, los parámetros de adquisición (frecuencia de muestreo y filtro), etc. Una vez realizado esto, en primer lugar las señales obtenidas mediante grabación digital en el ordenador de control son traducidas a magnitudes físicas y tiempos, y se previusualizan debidamente escaladas.

Posteriormente se hace el tratamiento y procesado completo hasta permitir dibujar en papel los registros escalados en coordenadas tiempo-magnitud para posibilitar su análisis e incorporación a los informes correspondientes.

Hay que señalar que se dispone de software específico para dicho tratamiento así como hojas de cálculo gráficas, tales como DADISP, o más generales como MATLAB.



Para tablas de presentación y como soporte informático de transmisión de resultados se utiliza un programa convencional con formato estándar de hoja de cálculo, por ejemplo como EXCEL.

En el caso de las medidas de aceleraciones se realiza además su estudio en frecuencias para la obtención de los modos fundamentales de vibración de la estructura, analizando los espectros obtenidos en cada prueba mediante la aplicación anterior.

Como equipos auxiliares se encuentran grupos electrógenos portátiles, 6.500 m de línea en bobinas de 25, 50 y 100 m de longitud, maquinaria portátil de limpieza, pulido y soldadura y pequeño herramental.

Hay que comentar que en el momento actual INECO dispone de la capacidad de hacer funcionar simultáneamente tres equipos de grabación (incluido personal técnico) con las tarjetas de adquisición anteriormente mencionadas, junto con un total de canales de 96, distribuidos entre 56 extensométricos, 16 potenciométricos y 22 mixtos.

El número total de transductores disponibles es de 78, de los cuales 64 son de desplazamiento (10, 25, 30, 50 y 100 mm), y 14 de aceleración (10, 20 y 50 Gs). Con ello la posibilidad de acometer pruebas de carga “especiales” por elevado número de puntos, o pruebas habituales simultáneas, vendrá en general limitada por la disponibilidad de trenes de ensayo en lugar de por el equipamiento disponible.

En las diversas fotografías incluidas en el ANEJO 5 - Reportaje Fotográfico, del presente informe pueden observarse los equipos utilizados en campo y la disposición de bandas extensométricas y transductores de desplazamiento en distintos puntos de la estructura ensayada.

#### **4.4.- RESULTADOS PREVISTOS.**

La ubicación y denominación de los puntos a instrumentar en la estructura a ensayar, se obtienen del Proyecto de Prueba de Carga, adjuntándose su croquis de situación también en el Anejo 3 de este informe, junto con el esquema de las diferentes pruebas a realizar.



En los cuadros siguientes se incluyen los resultados esperados de la prueba estática en todos los puntos instrumentados que se obtienen del citado Proyecto, con la denominación de las mismas empleada en los ensayos.

***ESTÁTICA Nº 1 (Vano con 15,6m de longitud entre apoyos). Cuatro camiones de 26 Tn enfrentados dos a dos en centro de vano.***

| PUNTO | TRAMO | POSICION   | UD. | PRUEBA | VALOR ESPERADO |
|-------|-------|------------|-----|--------|----------------|
| P131  | 1     | L/2 VIGA 3 | mm  | EST V1 | -2.59          |
| P151  | 1     | L/2 VIGA 5 | mm  | EST V1 | -3.39          |
| P171  | 1     | L/2 VIGA 7 | mm  | EST V1 | -1.24          |
| G12   | 1     | L/2 VIGA 2 | μE  | EST V1 | 28             |
| G14   | 1     | L/2 VIGA 4 | μE  | EST V1 | 73             |
| G16   | 1     | L/2 VIGA 6 | μE  | EST V1 | 55             |

***ESTÁTICA Nº 2 (Vanos con 20,2m de longitud entre apoyos). Cuatro camiones de 26 Tn enfrentados dos a dos en centro de vano.***

| PUNTO | TRAMO | POSICION   | UD. | PRUEBA | VALOR ESPERADO |
|-------|-------|------------|-----|--------|----------------|
| P231  | 2     | L/2 VIGA 3 | mm  | EST V2 | -7.16          |
| P251  | 2     | L/2 VIGA 5 | mm  | EST V2 | -8.98          |
| P271  | 2     | L/2 VIGA 7 | mm  | EST V2 | -4.11          |
| G22   | 2     | L/2 VIGA 2 | μE  | EST V2 | 56             |
| G24   | 2     | L/2 VIGA 4 | μE  | EST V2 | 116            |
| G26   | 2     | L/2 VIGA 6 | μE  | EST V2 | 92             |



**ESTÁTICA Nº 3 (Vano con 15,6m de longitud entre apoyos). Cuatro  
camiones de 26 Tn enfrentados dos a dos en centro de vano.**

| PUNTO | TRAMO | POSICION   | UD. | PRUEBA | VALOR ESPERADO |
|-------|-------|------------|-----|--------|----------------|
| P331  | 3     | L/2 VIGA 3 | mm  | EST V3 | -2.59          |
| P351  | 3     | L/2 VIGA 5 | mm  | EST V3 | -3.39          |
| P371  | 3     | L/2 VIGA 7 | mm  | EST V3 | -1.24          |
| G32   | 3     | L/2 VIGA 2 | μE  | EST V3 | 28             |
| G34   | 3     | L/2 VIGA 4 | μE  | EST V3 | 73             |
| G36   | 3     | L/2 VIGA 6 | μE  | EST V3 | 55             |

En la prueba estática, se realizará una posición de carga por vano. La disposición de las carga queda perfectamente definida, según lo especificado en el ANEJO 3.

Los valores estimados para los dos primeros modos de vibración para los vanos 01 y 03 son los siguientes:

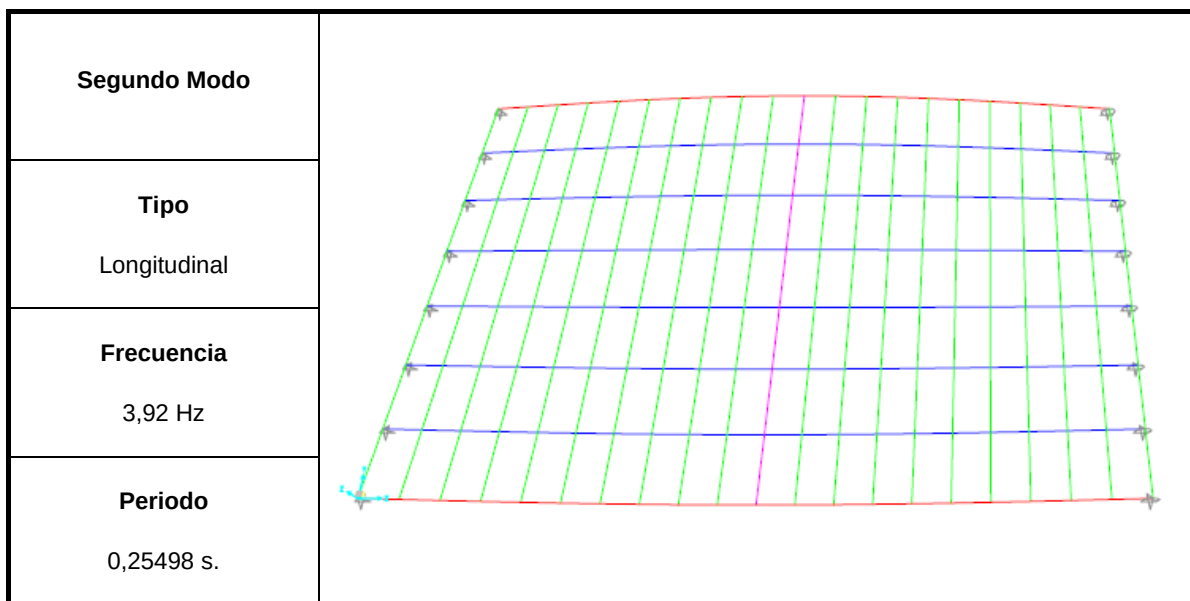
|                    |  |
|--------------------|--|
| <b>Primer Modo</b> |  |
| <b>Tipo</b>        |  |
| Longitudinal       |  |
| <b>Frecuencia</b>  |  |
| 6,57 Hz            |  |
| <b>Periodo</b>     |  |
| 0,15224 s.         |  |



|                              |  |
|------------------------------|--|
| <b>Segundo Modo</b>          |  |
| <b>Tipo</b><br>Longitudinal  |  |
| <b>Frecuencia</b><br>6,64 Hz |  |
| <b>Periodo</b><br>0,15052 s. |  |

Los valores estimados para los dos primeros modos de vibración para el vanos 02 es el siguiente:

|                              |  |
|------------------------------|--|
| <b>Primer Modo</b>           |  |
| <b>Tipo</b><br>Longitudinal  |  |
| <b>Frecuencia</b><br>3,82 Hz |  |
| <b>Periodo</b><br>0,26176 s. |  |



Se ha obtenido el porcentaje del momento que se alcanzará en las pruebas con las cargas utilizadas con respecto al momento de sobrecarga de la estructura. Para ello, aprovechando la modelización realizada, en la que las barras longitudinales de los modelos utilizados coinciden con los de las propias vigas del tablero, se han comparado el momento.

El resultado alcanzado puede considerarse aceptable de acuerdo con las recomendaciones habituales para este tipo de ensayos.

|                                                       | Momento de sobrecarga en Proyecto (T m) | Momento de sobrecarga en Prueba (T m) | % alcanzado en prueba |
|-------------------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|
| Momento flector positivo máximo (Vano 2, Vigas 4 y 5) | 88,3                                    | 58,3                                  | 66,0%                 |

## 5.- DESARROLLO DE LA PRUEBA DE CARGA.

Previamente a la ejecución de la prueba de carga, se realizaron los trabajos previos de instrumentación del puente de acuerdo con el programa ya fijado al que nos hemos referido en apartados anteriores.



Finalizada la instrumentación se procedió a la verificación de todas las conexiones, comprobación del perfecto funcionamiento de los equipos de amplificación y registro y, por último, prueba del conjunto completo de instrumentos mediante la grabación de las señales producidas por la calibración automática de los equipos.

### ***5.1.-DESCRIPCIÓN DEL ENSAYO.***

La prueba de carga de la estructura se realizó la tarde del 23 de enero de 2010 y la madrugada del 24 de enero de 2010, bajo la supervisión de Pablo Sánchez Garetá de INECO, Ingeniero encargado de la misma.

El tren de carga empleado consistió en 4 camiones de 3 ejes de 26 toneladas con un peso por eje de 9.5, 9.5 y 7 toneladas, respectivamente.

El plan de pruebas se desarrolló según el siguiente esquema:

Pruebas estáticas posiciones definidas por el croquis de cargas.

Prueba dinámica lenta a 10 km/h, también denominada cuasi-estática (**DIN01**), con el tren de cargas tipo circulando sentido Estribo de entrada – Estribo de salida.

Prueba dinámica máxima a 40 km/h, denominada de velocidad rápida (**DIN02**), efectuada con el tren de cargas circulando sentido Estribo de entrada – Estribo de salida.

Prueba dinámica tablón RILEM a 40 km/h, también denominada de tablón RILEM (**DIN03**), con el tren de cargas tipo circulando sentido Estribo de entrada – Estribo de salida.

Después de cada prueba dinámica se dejaba un tiempo mínimo de dos minutos para asegurar la recuperación total de la estructura y aprovechar para realizar un chequeo rápido de las medidas obtenidas, procediéndose antes y después a calibrar los aparatos de medida para obtener una perfecta correlación entre la señal producida y el fenómeno físico que la origina.



En las pruebas estáticas, el tiempo aproximado de puesta en carga del tablero fue de 10 minutos y el tiempo de grabación de la recuperación en torno a los 2 minutos. El tiempo total de grabación es del orden de 19 minutos.

En el Proyecto de Prueba de Carga, se incluía las pruebas estáticas con sus correspondientes valores esperados. Se obtuvieron estos valores para un barrido de todas las posibilidades de carga del puente, pudiendo comparar así, los valores medidos durante la Prueba de Carga.

Finalmente, se realizó las pruebas estáticas que eran compatibles con la forma que se instrumentó, para probar la estructura.

Las pruebas comenzaron a las 18 h 02 min del 23 de enero de 2010, finalizando a las 03 h 22 min del 24 de enero de 2010, con una duración aproximada de 9 horas y 20 minutos. La temperatura media fue de 9,4 ° C, mientras que la humedad media fue del 48 %.

Por último, cabe señalar que al finalizar el ensayo se procedió a visualizar gráficamente los resultados para garantizar su correcta ejecución y comprobar si existía alguna anomalía en el funcionamiento resistente de la estructura.

## **5.2.- RESULTADOS OBTENIDOS.**

En el ANEJO 4, se adjuntan los gráficos correspondientes a todos los puntos de medida definidos de acuerdo con la numeración establecida en los planos de instrumentación.

Las curvas se agrupan para cada uno de los sensores. Los resultados correspondientes a las pruebas estáticas se agrupan en una primera hoja, mientras que las tres pruebas dinámicas efectuadas con el tren de cargas circulando a diferentes velocidades se agrupan a continuación en la segunda hoja. Todo esto se realiza de este modo para cada punto, habiéndose elegido este sistema de representación, al objeto de poder comparar mejor las medidas en cada una de las pruebas, facilitándose de esta forma la comprensión y el análisis comparativo entre los valores de cada una.



En cuanto a los registros de los acelerómetros se ha optado, también para su mejor comprensión, por agrupar en una primera página, los tres ensayos dinámicos correspondientes al paso del tren de carga, colocando tras ellas el espectro de frecuencias que se obtiene en gabinete, como representativo del tablero, seleccionado de la prueba en la que se consigue mejor excitación, una vez estudiados el conjunto de registros mediante el análisis individual de cada uno de sus espectros de frecuencias. Las señales son grabadas en soporte digital e introducidas en un ordenador y una vez procesadas, se dibujan en coordenadas de tiempo y unidades del fenómeno físico medido.

Para las flechas dinámicas se recogen los valores máximos absolutos y en las pruebas estáticas aparecen los valores estabilizados. Los registros pueden consultarse en el ANEJO 4 - Registros de Medidas; mientras que en el ANEJO 3 - Esquema de Instrumentación y Tren de Cargas, se recoge un croquis con todos los puntos instrumentados.

**A) Resultados de la prueba estática**

***ESTÁTICA N° 1 (Vano con 15,6m de longitud entre apoyos). Cuatro  
camiones de 26 Tn enfrentados dos a dos en centro de vano.***

| Punto | Vano | Sección | Valor<br>Esper | Valor<br>Obten | Valor<br>Neto | % Valor<br>Alcanz | Valor<br>Reman | % Valor<br>Recup |
|-------|------|---------|----------------|----------------|---------------|-------------------|----------------|------------------|
| P131  | 1    | L/2     | -2.59          | -1.95          | -1.55         | 60%               | -0.16          | 8%               |
| P132  | 1    | Apoyo   | -              | -0.40          | -0.40         | -                 | 0.00           | 0%               |
| P151  | 1    | L/2     | -3.39          | -2.59          | -2.09         | 62%               | 0.00           | 0%               |
| P152  | 1    | Apoyo   | -              | -0.50          | -0.50         | -                 | 0.00           | 0%               |
| P171  | 1    | L/2     | -1.24          | -1.14          | -0.94         | 76%               | 0.00           | 0%               |
| P172  | 1    | Apoyo   | -              | -0.20          | -0.20         | -                 | 0.00           | 0%               |
| G12   | 1    | L/2     | 28             | 33             | 33            | 118%              | 0              | 0%               |
| G16   | 1    | L/2     | 55             | 61             | 61            | 110%              | 0              | 0%               |



**ESTÁTICA Nº 2 (Vanos con 20,2m de longitud entre apoyos). Cuatro  
camiones de 26 Tn enfrentados dos a dos en centro de vano.**

| Punto | Vano | Sección | Valor<br>Esper | Valor<br>Obten | Valor<br>Neto | % Valor<br>Alcanz | Valor<br>Reman | % Valor<br>Recup |
|-------|------|---------|----------------|----------------|---------------|-------------------|----------------|------------------|
| P231  | 2    | L/2     | -7.16          | -4.65          | -4.17         | 58%               | 0.00           | 0%               |
| P232  | 2    | Apoyo   | -              | -0.47          | -0.47         | -                 | 0.00           | 0%               |
| P251  | 2    | L/2     | -8.98          | -5.79          | -5.24         | 58%               | 0.00           | 0%               |
| P252  | 2    | Apoyo   | -              | -0.55          | -0.55         | -                 | 0.00           | 0%               |
| P271  | 2    | L/2     | -4.11          | -3.33          | -3.10         | 75%               | 0.00           | 0%               |
| P272  | 2    | Apoyo   | -              | -0.23          | -0.23         | -                 | 0.00           | 0%               |
| G22   | 2    | L/2     | 56             | 72             | 72            | 129%              | 0              | 0%               |
| G24   | 2    | L/2     | 116            | 114            | 114           | 99%               | 0              | 0%               |
| G26   | 2    | L/2     | 92             | 92             | 92            | 100%              | 0              | 0%               |

**ESTÁTICA Nº 3 (Vano con 15,6m de longitud entre apoyos). Cuatro  
camiones de 26 Tn enfrentados dos a dos en centro de vano.**

| Punto | Vano | Sección | Valor<br>Esper | Valor<br>Obten | Valor<br>Neto | % Valor<br>Alcanz | Valor<br>Reman | % Valor<br>Recup |
|-------|------|---------|----------------|----------------|---------------|-------------------|----------------|------------------|
| P331  | 3    | L/2     | -2.59          | -2.08          | -1.66         | 64%               | 0.00           | 0%               |
| P332  | 3    | Apoyo   | -              | -0.42          | -0.42         | -                 | 0.00           | 0%               |
| P351  | 3    | L/2     | -3.39          | -2.65          | -2.17         | 64%               | 0.00           | 0%               |
| P352  | 3    | Apoyo   | -              | -0.48          | -0.48         | -                 | 0.00           | 0%               |
| P371  | 3    | L/2     | -1.24          | -1.15          | -0.97         | 79%               | 0.00           | 0%               |
| P372  | 3    | Apoyo   | -              | -0.18          | -0.18         | -                 | 0.00           | 0%               |
| G32   | 3    | L/2     | 28             | 38             | 38            | 135%              | 0              | 1%               |
| G34   | 3    | L/2     | 73             | 83             | 83            | 114%              | 0              | 0%               |
| G36   | 3    | L/2     | 55             | 65             | 65            | 118%              | 0              | 0%               |

Dentro de la columna de los valores esperados, se incluyen aquellos obtenidos del cálculo teórico, teniendo en cuenta el módulo de elasticidad estático. La columna de valores netos refleja las medidas obtenidas en la prueba de carga estática descontando los descensos de apoyos. La tabla presenta una serie de columnas complementarias



donde se anotan los valores no recuperados tras la descarga del puente (valores remanentes) además de los porcentajes de recuperación respecto de los valores netos.

### **B) Resultados de las pruebas dinámicas**

En el siguiente cuadro se recogen los valores obtenidos durante las pruebas dinámicas, para los que se han tenido en cuenta, como se ha citado anteriormente los valores máximos.

#### **VALORES MAXIMOS EN DESPLAZAMIENTO (mm)**

| Punto | Sección | Prueba 5 km/h | Prueba 40 km/h | Prueba 40 km/h con tablón RILEM |
|-------|---------|---------------|----------------|---------------------------------|
| P131  | L/2     | -1.17         | -0.93          | -1.07                           |
| P151  | L/2     | -1.25         | -1.45          | -1.78                           |
| P171  | L/2     | -0.30         | -0.39          | -0.53                           |
| P231  | L/2     | -2.00         | -2.34          | -2.62                           |
| P251  | L/2     | -2.11         | -2.36          | -2.97                           |
| P271  | L/2     | -0.76         | -0.82          | -1.13                           |
| P331  | L/2     | -1.37         | -1.69          | -1.42                           |
| P351  | L/2     | -1.14         | -1.23          | -1.58                           |
| P371  | L/2     | -0.23         | -0.21          | -0.37                           |

#### **VALORES MAXIMOS EN TENSION (µE)**

| Punto | Sección | Prueba 5 km/h | Prueba 40 km/h | Prueba 40 km/h con tablón RILEM |
|-------|---------|---------------|----------------|---------------------------------|
| G12   | L/2     | 17            | 16             | 17                              |
| G16   | L/2     | 26            | 33             | 66                              |
| G22   | L/2     | 33            | 42             | 44                              |
| G24   | L/2     | 66            | 69             | 81                              |
| G26   | L/2     | 31            | 34             | 46                              |
| G32   | L/2     | 28            | 34             | 23                              |
| G34   | L/2     | 66            | 70             | 75                              |
| G36   | L/2     | 21            | 22             | 33                              |



Tomando como referencia la prueba cuasiestática con el tren de cargas circulando (DIN01) se obtienen los coeficientes de impacto a las distintas velocidades ensayadas.

#### COEFICIENTE DE IMPACTO EN FLECHAS

| Punto | Sección | Coeficiente de Impacto a 40 km/h | Coeficiente de Impacto a 40 km/h con tablón RILEM |
|-------|---------|----------------------------------|---------------------------------------------------|
| P131  | L/2     | 0.79                             | 0.92                                              |
| P151  | L/2     | 1.16                             | 1.42                                              |
| P171  | L/2     | 1.28                             | 1.74                                              |
| P231  | L/2     | 1.17                             | 1.31                                              |
| P251  | L/2     | 1.12                             | 1.41                                              |
| P271  | L/2     | 1.07                             | 1.48                                              |
| P331  | L/2     | 1.23                             | 1.03                                              |
| P351  | L/2     | 1.07                             | 1.38                                              |
| P371  | L/2     | 0.95                             | 1.65                                              |

#### COEFICIENTE DE IMPACTO EN TENSIÓN

| Punto | Sección | Coeficiente de Impacto a 40 km/h | Coeficiente de Impacto a 40 km/h con tablón RILEM |
|-------|---------|----------------------------------|---------------------------------------------------|
| G12   | L/2     | 0.92                             | 0.99                                              |
| G16   | L/2     | 1.25                             | 2.55                                              |
| G22   | L/2     | 1.27                             | 1.33                                              |
| G24   | L/2     | 1.04                             | 1.23                                              |
| G26   | L/2     | 1.09                             | 1.48                                              |
| G32   | L/2     | 1.23                             | 0.85                                              |
| G34   | L/2     | 1.06                             | 1.14                                              |
| G36   | L/2     | 1.01                             | 1.54                                              |

#### C) Frecuencia propia de vibración

El valor estimado para la frecuencia de oscilación correspondiente al primer modo de oscilación es de 6,57 Hz para los vanos 01 y 03 y de 3,82 Hz para el vano 02, obtenidos este en función del módulo de elasticidad estático del hormigón. La frecuencia



obtenida para los vanos 01 y 03 son de 8,96 y 8,59 Hz respectivamente y de 5,50 Hz para el vano 02. Se puede apreciar que la frecuencia media registrada es sensiblemente superior al primer modo de vibración del modelo teórico. La frecuencia es directamente proporcional a la rigidez, esto es cuanto menor es la frecuencia respecto a la teórica, menor rigidez.

La zona temporal de análisis se corresponde con la de vibración residual libre de la estructura, una vez abandonada ésta por el tren de cargas y tomando siempre la parte final de la señal del acelerómetro.

Respecto al amortiguamiento de la estructura, señalar que se calculan en el mismo periodo temporal en el que se obtienen los espectros ya comentados para cálculo de las frecuencias. Se calculan directamente por el software utilizado para cálculo del espectro utilizando el método del ancho de banda. El valor deducido para cada vano es de 2,72%, 0,91% y 2,67% vanos 01, 02 y 03 respectivamente.

Indicamos que los valores de amplitud que aparecen en los gráficos de los espectros, no tienen un significado físico o ingenieril, ya que corresponden solamente a los coeficientes de peso de los términos del desarrollo en serie de Fourier (FFT).

## **6.- ANÁLISIS DE LOS RESULTADOS.**

Efectuamos en este apartado el análisis de los resultados obtenidos en las pruebas realizadas, comparándolos con los valores previstos.

### **6.1.- PRUEBA ESTÁTICA.**

Conforme a los resultados obtenidos podemos afirmar que el modelo estructural adoptado se identifica adecuadamente con el comportamiento de la estructura.

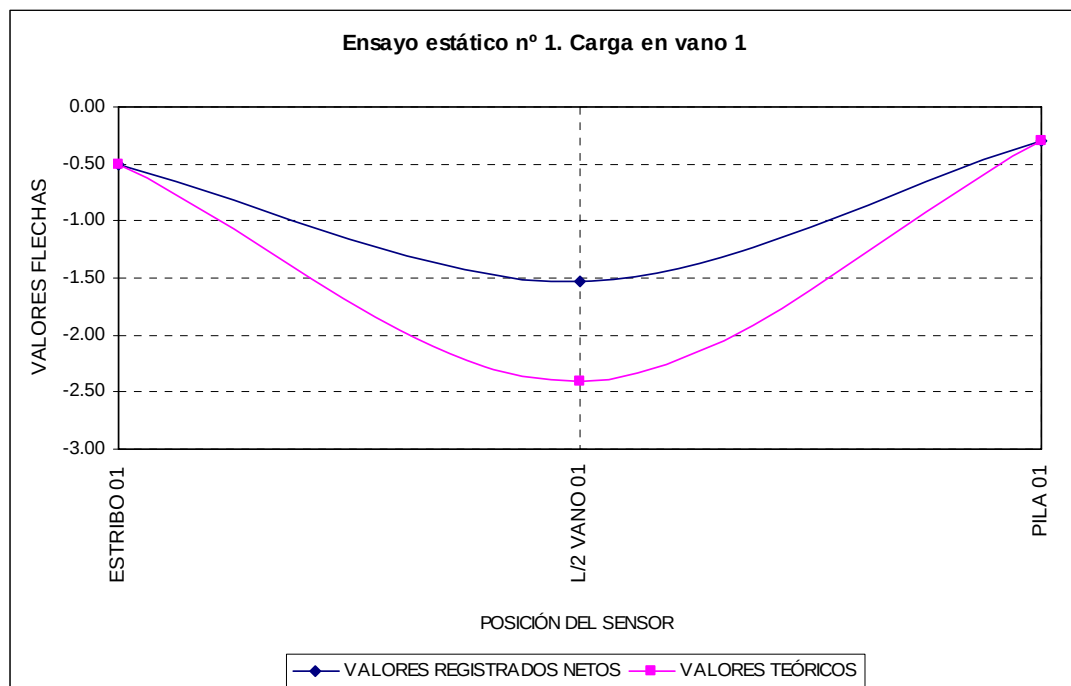
El mayor valor obtenido, para la flecha del vano 01 es de -2,59 mm en el punto P151, . Para el vano 02, la máxima flecha es de -5,79 mm en el punto P251. Finalmente, en el vano 03 la máxima flecha es de -2,65 mm en el punto P351.

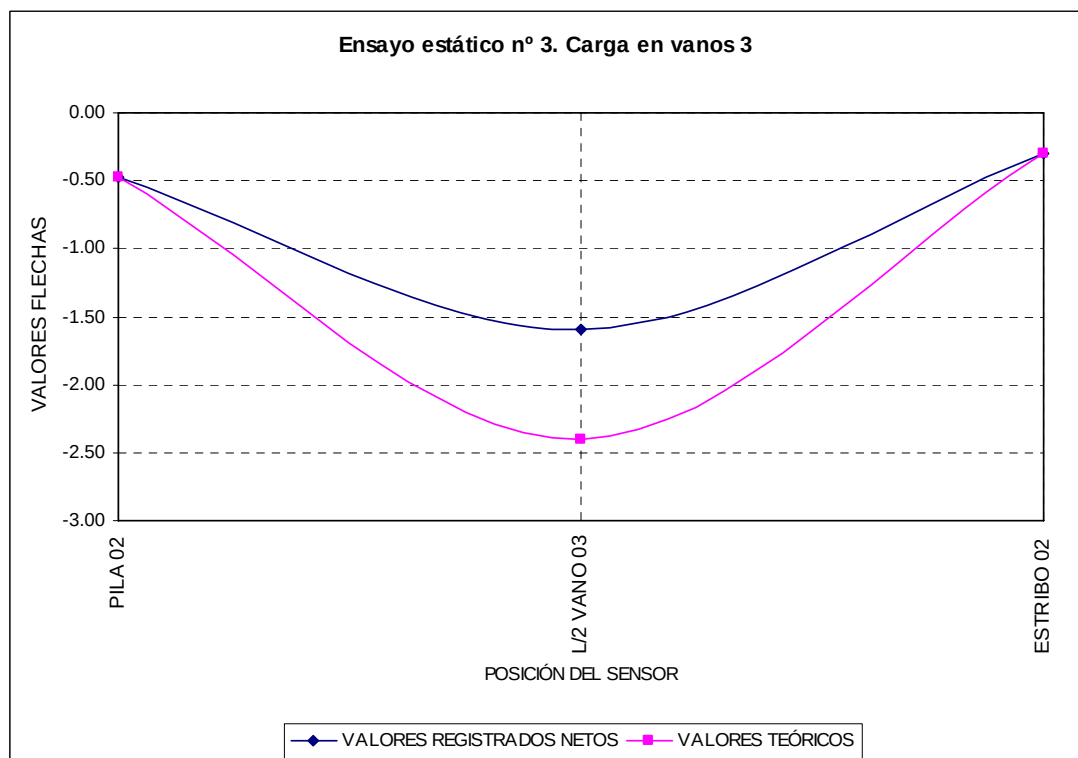
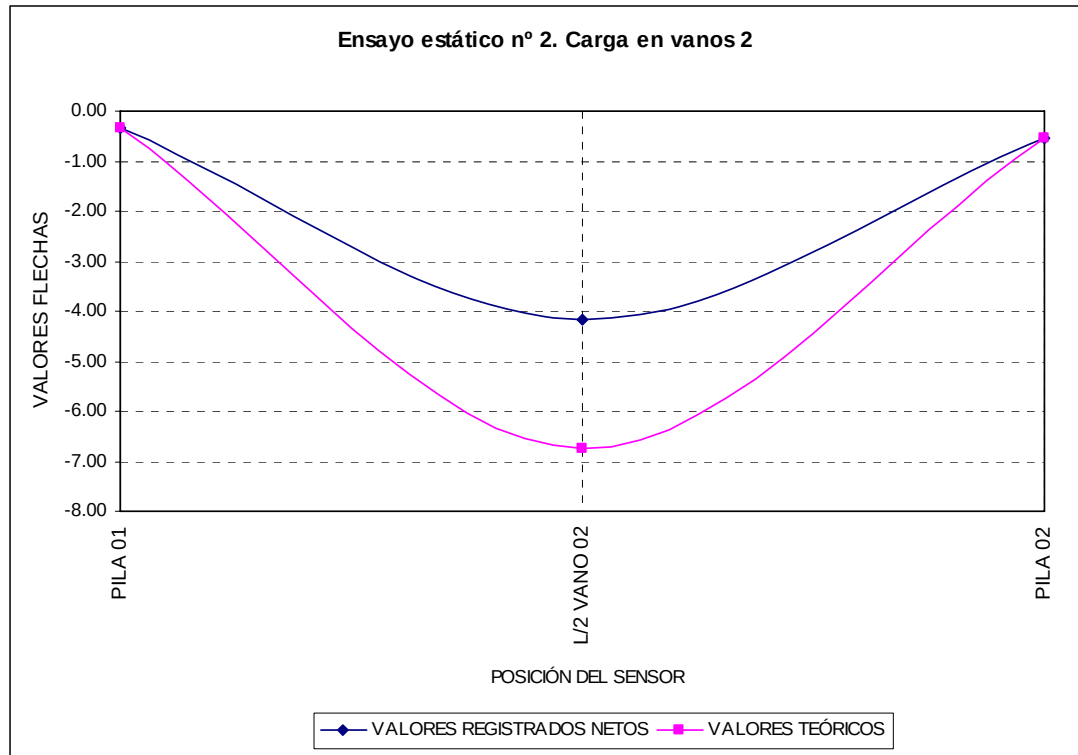
Los porcentajes de valores remanentes no superan en ningún caso el 8% de valor puntual.



Para finalizar, señalar que las flechas netas máximas alcanzadas durante el ensayo ha sido  $-5.24$  mm. Esto supone que la flecha máxima obtenida es inferior al  $l^2/2000 h$  (siendo  $l$  la luz de cálculo y  $h$  el canto del elemento), por lo que se cumple lo establecido en la Instrucción.

A continuación se muestra los gráficos del comportamiento en desplazamiento registrado de la estructura frente al del modelo teórico.







El comportamiento tensional de la estructura es análogo al mostrado para flechas.

## 6.2.- PRUEBAS DINÁMICAS

Los parámetros estadísticos básicos de las distribuciones de coeficientes de impacto son los que se muestran en el siguiente cuadro:

### COEFICIENTES DE IMPACTO

|                | Prueba dinámica 40 km/h |            | Prueba dinámica 40 km/h<br>con tablón RILEM |            |
|----------------|-------------------------|------------|---------------------------------------------|------------|
|                | MEDIA                   | DESVIACIÓN | MEDIA                                       | DESVIACIÓN |
| Flecha vano 01 | 1.08                    | 0.25       | 1.36                                        | 0.41       |
| Flecha vano 02 | 1.12                    | 0.05       | 1.40                                        | 0.08       |
| Flecha vano 03 | 1.08                    | 0.14       | 1.36                                        | 0.31       |
| Galga vano 01  | 1.09                    | 0.24       | 1.77                                        | 1.10       |
| Galga vano 02  | 1.13                    | 0.12       | 1.35                                        | 0.13       |
| Galga vano 03  | 1.10                    | 0.12       | 1.17                                        | 0.35       |

Para la determinación de los coeficientes de impacto se dividen los valores máximos obtenidos en las diferentes pruebas dinámicas de los canales situados en centro de vano, por los valores máximos análogos obtenidos en la prueba cuasiestática. En este punto, no se tienen en cuenta los valores registrados por los apoyos.

Mediante el tratamiento numérico de la señal de los registros de los acelerómetros se ha obtenido un valor de 8.96 Hz, 5.50 Hz y de 8.59 Hz para la frecuencia fundamental de flexión de la estructura, vano 01, 02 y 03 respectivamente, siendo los valores teóricos estimados de 6.57 Hz, 3.82 Hz y 6.57 Hz, respectivamente.

Posteriormente, como resultado del análisis del espectro de frecuencia por el método del ancho eficaz de banda, se estiman los siguientes valores de decremento logarítmico y amortiguación. Asimismo se aplica de forma automatizada por el programa de dibujo de espectros, utilizando el método del Ancho de Banda, donde se sustituye la



excitación armónica de la estructura por la originada por el tren de cargas en la prueba analizada.

Analizando las vibraciones residuales libres en la estructura una vez abandonado éste por el tren de cargas, se han obtenido los siguientes valores del decremento logarítmico y del amortiguamiento crítico:

| TRAMO | DECREMENTO LOGARÍTMICO | AMORTIGUAMIENTO |
|-------|------------------------|-----------------|
| 01    | 0.17                   | 2.72%           |
| 02    | 0.057                  | 0.91%           |
| 03    | 0.167                  | 2.67%           |

Los resultados anteriores se encuentran dentro de los intervalos habituales que se obtienen en este tipo de estructuras, pudiéndose considerar por tanto como aceptables.

La frecuencia de vibración obtenida durante la prueba es sensiblemente superior al modo 1 de la frecuencia del modelo teórico, esto demuestra que efectivamente, la estructura se comporta con algo más de rigidez a la del modelo empleado, que puede considerarse admisible.

No deben de diferir las flechas de la calculada teóricamente en mayor medida de lo que haya hecho la frecuencia, eso si, teniendo en cuenta que las flechas son proporcionales a la rigidez del tablero y la frecuencia, es en primera aproximación a la raíz cuadrada de la misma.

#### VANO 01

$$\sqrt{\frac{flecha_{registrada}}{flecha_{teórica}}} = 0.80$$

$$\frac{frecuencia_{teórica}}{frecuencia_{registrada}} = 0.73$$

#### VANO 02

$$\sqrt{\frac{flecha_{registrada}}{flecha_{teórica}}} = 0.78$$

$$\frac{frecuencia_{teórica}}{frecuencia_{registrada}} = 0.70$$



VANO 03

$$\sqrt{\frac{flecha_{registrada}}{flecha_{teórica}}} = 0.81$$

$$\frac{frecuencia_{teórica}}{frecuencia_{registrada}} = 0.77$$

En los registros no se observa ningún comportamiento que pueda considerarse anormal desde el punto de vista de los fenómenos de amplificación dinámica.

El resultado anterior se encuentran dentro de los intervalos habituales que se obtienen en este tipo de estructuras, pudiéndose considerar por tanto como aceptables.

**7.- CONCLUSIONES Y RECOMENDACIONES.**

De acuerdo con lo expuesto en los apartados precedentes, podemos llegar a las siguientes conclusiones:

- a) Los valores de las flechas alcanzadas tanto en las pruebas dinámicas como en las estáticas han sido en todos los casos admisibles. Las recuperaciones son siempre superiores al 90 %.
- b) Las recuperaciones obtenidas en el punto anterior, se han realizado de forma prácticamente instantánea. El comportamiento de la estructura puede considerarse, por ello, elástico.
- c) El comportamiento tensional (galgas) es análogo al mostrado por las flechas.
- d) El coeficiente de impacto medio obtenido en flechas están dentro de los habituales para este tipo de estructuras. Estos valores son correctos, mostrando que la estructura se comportan de forma adecuada ante las acciones dinámicas de la prueba.
- e) Las frecuencias propias de vibración obtenidas en las pruebas dinámicas son superiores a las esperadas en el modelo. Resultados que son coherentes con los menores valores obtenidos en flechas, y que por tanto detectan una mayor rigidez del tablero respecto de la teórica contemplada en los cálculos.



- f) El amortiguamiento de la estructura después de ser excitada con el tren de cargas a las velocidades de la prueba, está dentro de los valores habituales para este tipo de estructura.

Durante la inspección preliminar y posterior a los ensayos no se detectaron aparición de fisuras o cualquier otro tipo de daños.

Por todos estos motivos puede considerarse que el comportamiento de la obra durante la realización de los ensayos de carga ha sido correcto.

Madrid, febrero de 2010

EL JEFE DE DIVISIÓN DE  
INSTRUMENTACIÓN Y ENSAYOS

Fdo.: Justo Carretero Pérez

INGENIERO AUTOR DEL INFORME

Fdo.: Pablo Sánchez Gareta

VºBº

EL DIRECTOR. DE ESTRUCTURAS

Fdo.: Javier Cortezo García



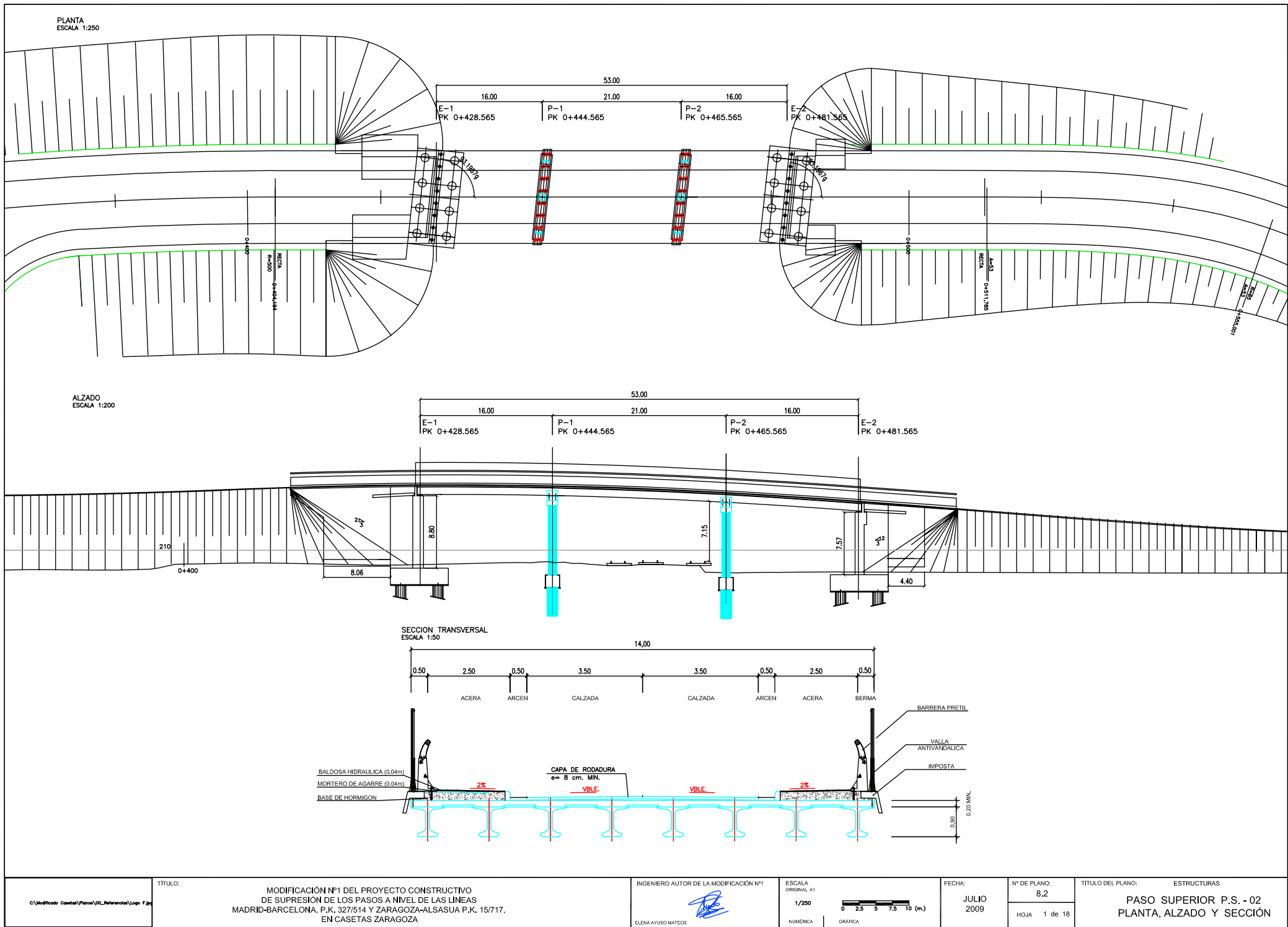
MINISTERIO DE FOMENTO  
Secretaría de Estado de Planificación e  
Infraestructuras  
Dirección General de Infraestructuras  
Ferrovias

## **ANEJO 1: DOCUMENTACIÓN DISPONIBLE**

Madrid, Febrero de 2010

---





C:\Modificado Casetas\Planta\00\_Referencia\Lugar F.jpg

TÍTULO:  
MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

INGENIERO AUTOR DE LA MODIFICACIÓN Nº1  
  
ELENA AYUSO MATEOS

ESCALA  
ORIGINAL A1  
1/250  
NUMÉRICA

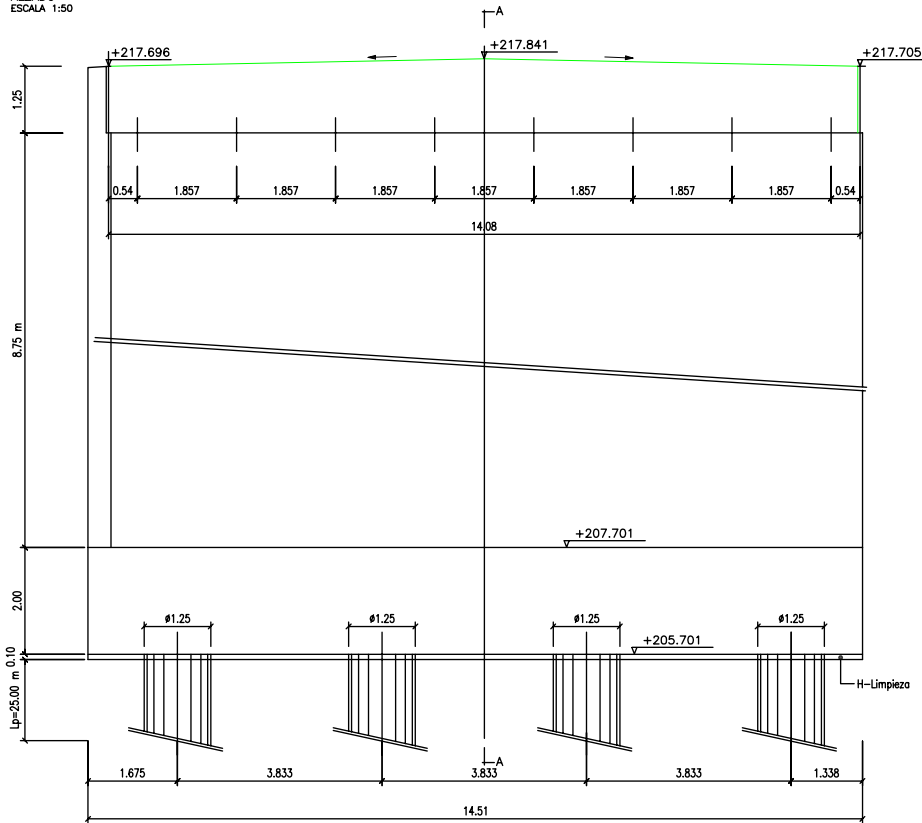
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FECHA:  
JULIO  
2009

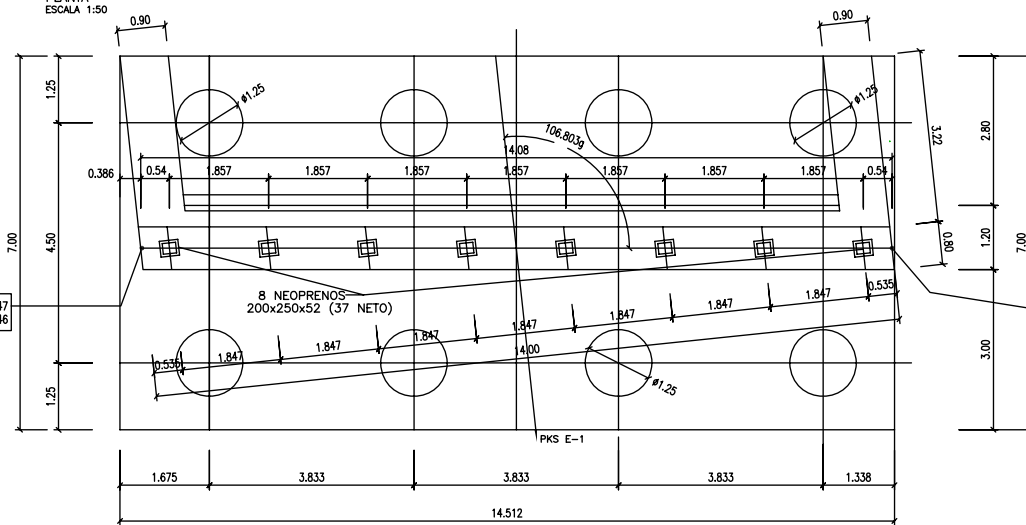
Nº DE PLANO:  
8.2  
HOJA 1 de 18

TÍTULO DEL PLANO:  
ESTRUCTURAS  
PASO SUPERIOR P.S. - 02  
PLANTA, ALZADO Y SECCIÓN

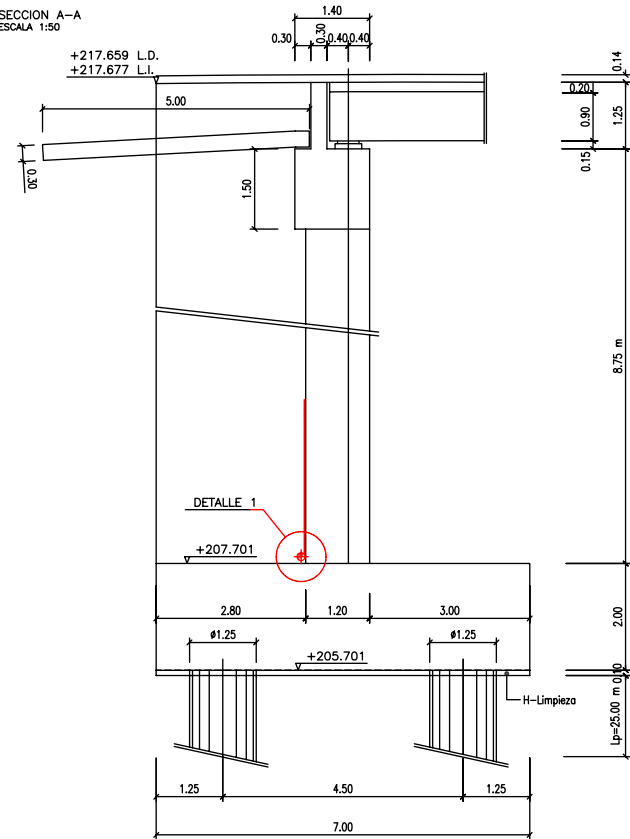
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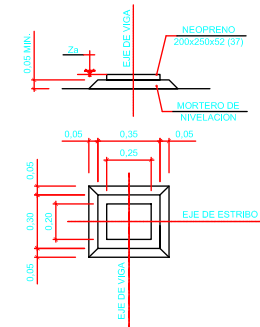
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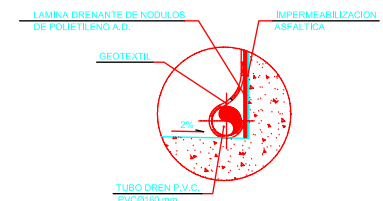
SECCION A-A  
ESCALA 1:50



DETALLE DE NEOPRENOS  
ESCALA 1/15



DETALLE 1 (TUBO -DREN)  
SIN ESCALA



| CUADRO DE CARACTERISTICAS EHE-99 |                    |                  |             |            |
|----------------------------------|--------------------|------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION       | TIPO             | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCEPADO Y PILOTES | HA-30/B/20/1a+0b | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS            | HA-30/B/20/1b    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA       | B 500 SD         | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA       |                  | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA

ORIGINAL A1

1/50

NÚMÉRICA

GRÁFICA

FECHA:

JULIO  
2009

Nº DE PLANO:

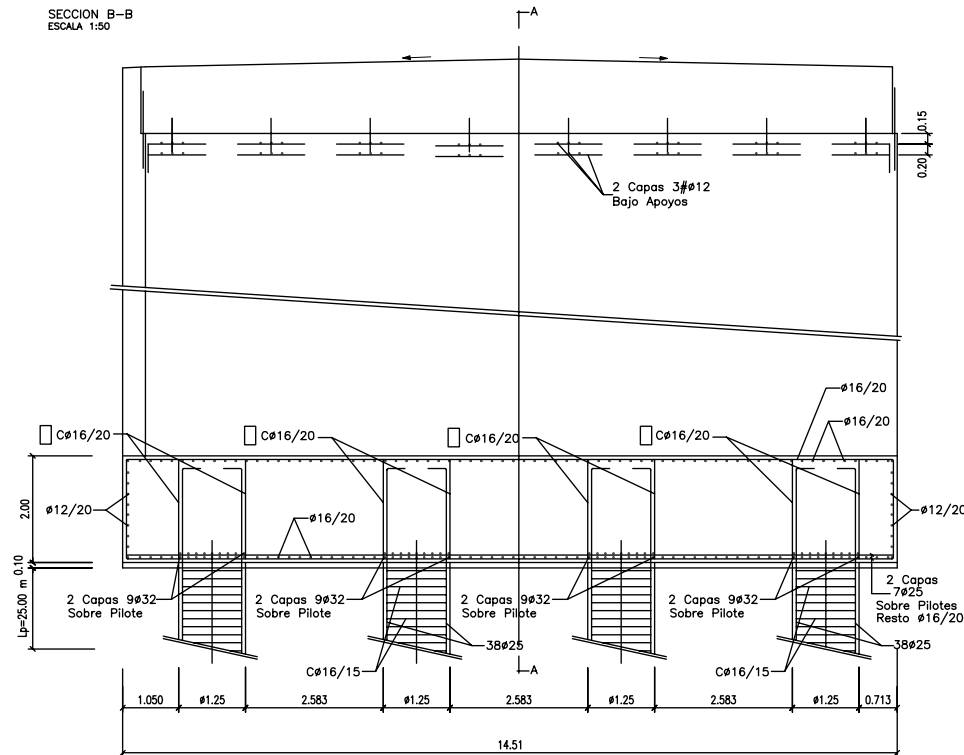
8.2

HOJA 3 de 18

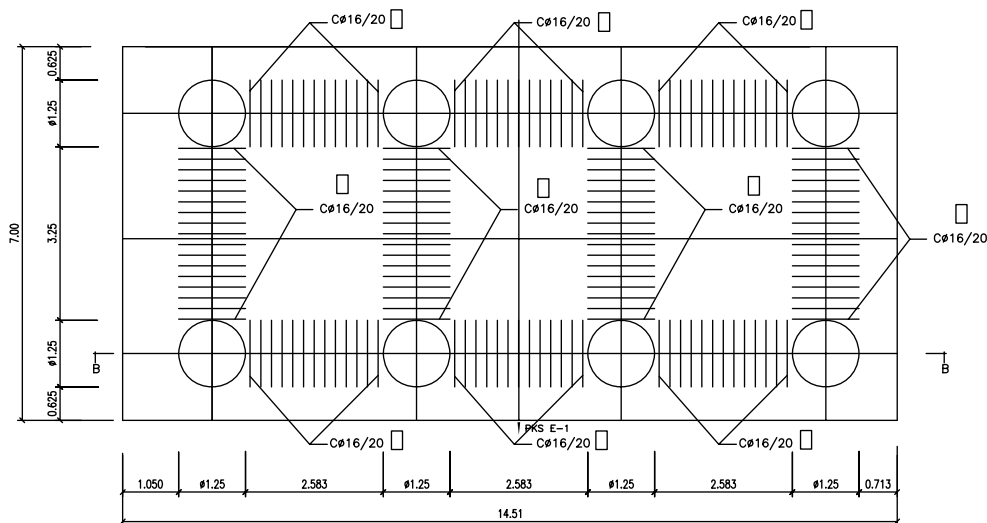
TÍTULO DEL PLANO: ESTRUCTURAS

PASO SUPERIOR P.S. - 02  
ESTRIBO -1 DEF. GEOMETRICA

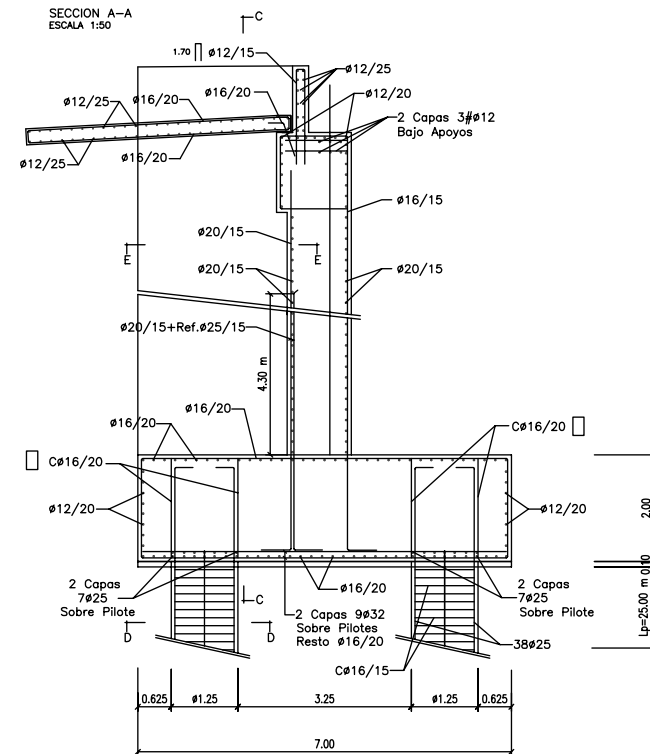
SECCION B-B  
ESCALA 1:50



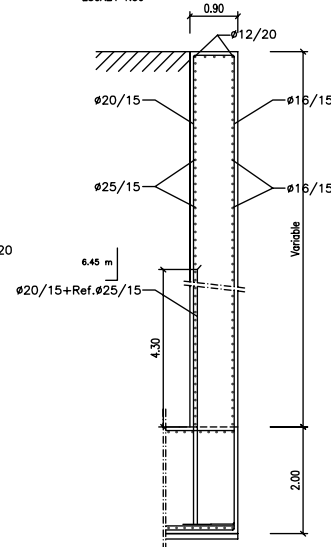
DETALLE PLANTA CERCOS  
ESCALA 1:50



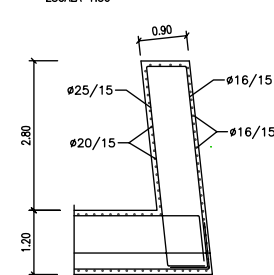
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ESCALA 1:50



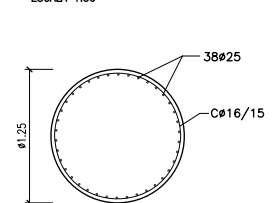
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ESCALA 1:50



SECCION E-E, MURO EN VUELTA  
ESCALA 1:50



SECCION D-D, PILOTES  
ESCALA 1:50



| CUADRO DE CARACTERÍSTICAS EHE-99 |                    |                   |             |            |
|----------------------------------|--------------------|-------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION       | TIPO              | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCEPADO Y PILOTES | HA-30/B/20/IIa+Qb | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS            | HA-30/B/20/IIb    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA       | B 500 SD          | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA       |                   | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LÍNEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

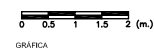
INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA ORIGINAL A1

1/50

NÚMÉRICA



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JULIO  
2009

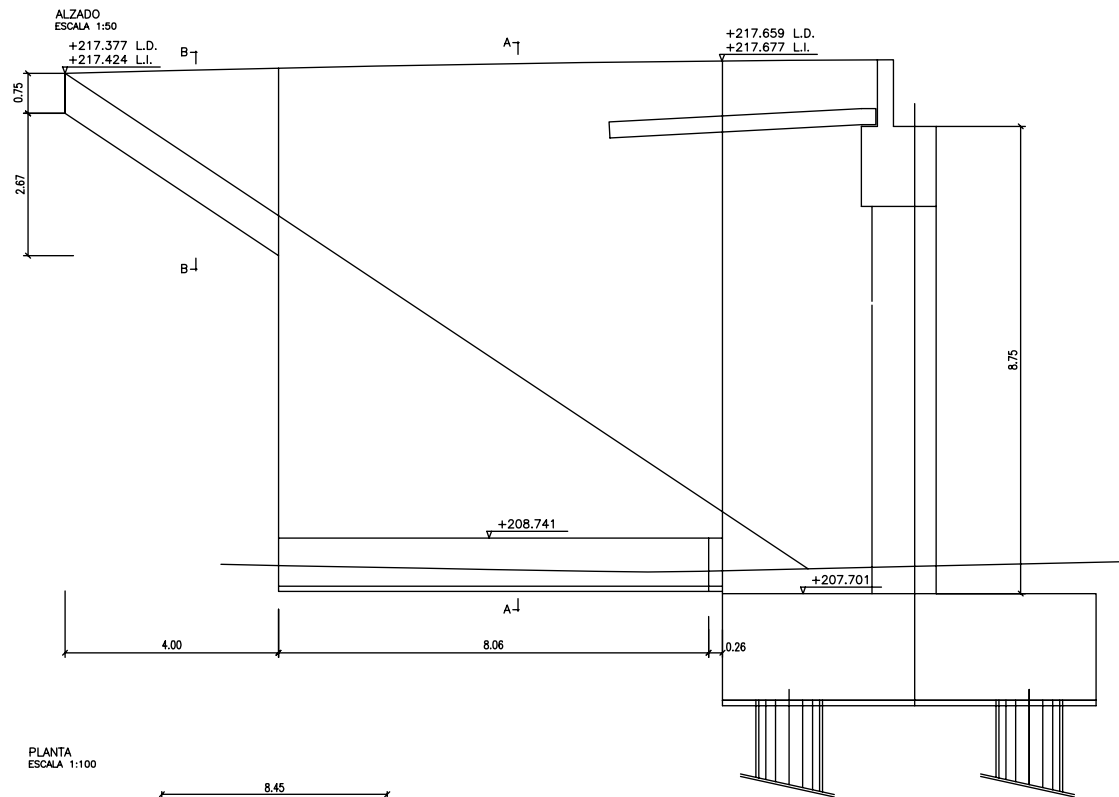
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8,2

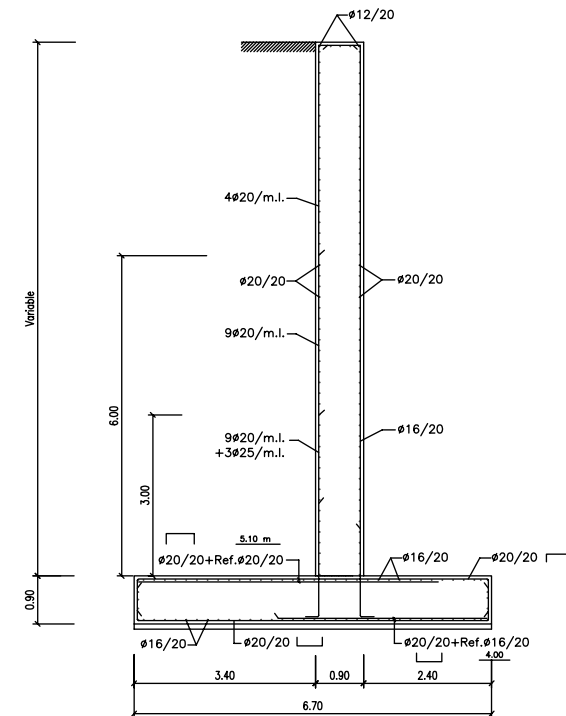
HOJA 9 de 18

TÍTULO DEL PLANO: ESTRUCTURAS

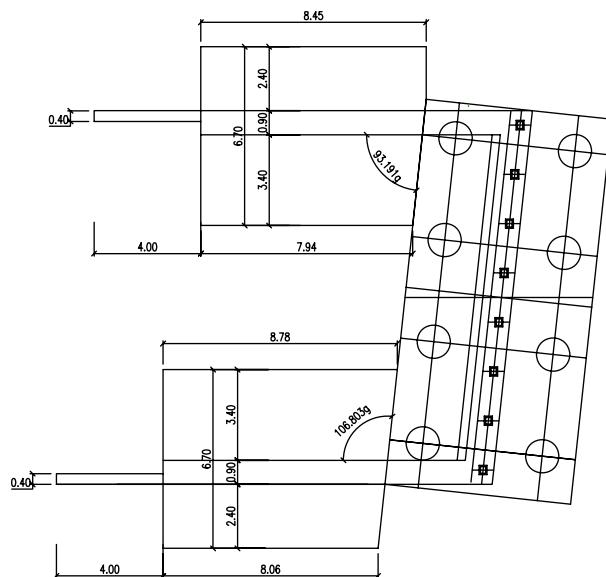
PASO SUPERIOR P.S. - 02  
ESTRIBO -1 ARMADURA



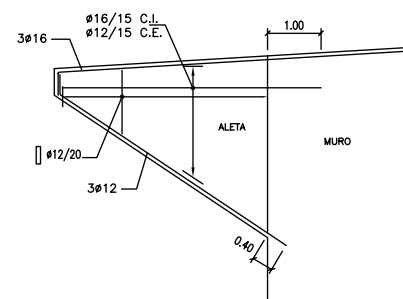
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ESCALA 1:50



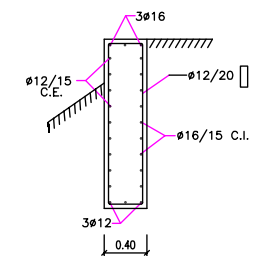
PLANTA  
ESCALA 1:100



DETALLE ALETA-MURO  
ESCALA 1:50



SECCION B-B, ALETA  
ESCALA 1:25



NOTA: Se ha considerado una tensión admisible del terreno de 1,50 Kg/cm<sup>2</sup>.

| CUADRO DE CARACTERÍSTICAS EHE-99                 |               |                  |             |            |
|--------------------------------------------------|---------------|------------------|-------------|------------|
| ELEMENTO                                         | LOCALIZACION  | TIPO             | CONTROL     | COEF. SEG. |
| HORMIGON                                         | CIMENTACIONES | HA-30/B/20/1a+Qb | ESTADISTICO | 1.50       |
| HORMIGON                                         | ALZADOS       | HA-30/B/20/1b    | ESTADISTICO | 1.50       |
| PASIVAS                                          | TODA LA OBRA  | B 500 SD         | NORMAL      | 1.15       |
| EJECUCION                                        | TODA LA OBRA  | INTENSO          | 1.35/1.50   |            |
| Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados |               |                  |             |            |

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA  
ORIGINAL A1

1/50

NUMÉRICA

0 0.5 1 1.5 2 (m.)

GRÁFICA

FECHA:

JULIO  
2009

Nº DE PLANO:

8,2

HOJA 7 de 18

TÍTULO DEL PLANO: ESTRUCTURAS

PASO SUPERIOR P.S. - 02  
ESTRIBO -1 MURO Y ALETA

ESCALA 1:50

8 NEOPRENOS  
200x250x52 (37 NETO)

Dimensions and coordinates:

- Overall width: 14.51
- Overall height: 7.00
- Top edge dimensions: 1.677, 3.833, 3.833, 3.834, 1.333
- Bottom edge dimensions: 0.54, 1.857, 1.857, 1.857, 1.857, 1.857, 1.857, 0.54
- Left edge dimensions: 1.25, 4.50, 1.25
- Right edge dimensions: 2.90, 1.10, 3.00
- Internal dimensions: 0.80, 3.12, 0.80, 0.30, 0.40, 1.40
- Coordinates:
  - X=664357.367, Y=4621423.118
  - X=664369.009, Y=4621415.199

SECTION A-A  
ESCALA 1:50

+215.409 L.D.  
+215.514 L.I.

0.5%

1.40  
0.30 0.30 0.40 0.40

5.00

0.05

DETALLE 1

+206.894

2.90 1.10 3.00

+204.894

1.25 4.50 1.25

7.57 m

2.00

Lp=25.00 m

0.15 0.90 0.20

0.14

Diagrama de un sistema de drenaje en un pavimento. Se muestra una sección transversal con varias capas: una capa superior de asfalto impermeabilizada, seguida de una lámina drenante de nódulos de polietileno a.d., un geotextil, y un tubo drenante de PVC con PVCSTRI 100. El tubo tiene un diámetro de 20 cm. El sistema está rodeado por una capa de grava o similar.

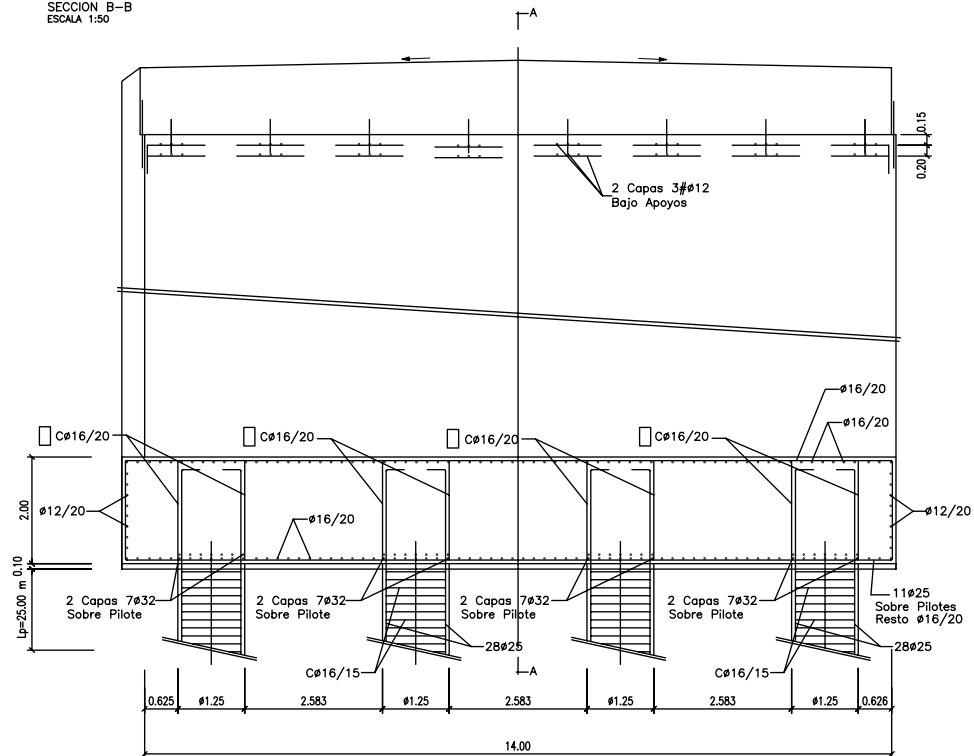
C:\Modificado Casetas\Planes\00\_Referencias\Logo F.jpg

ELENA AYUSO MATEOS

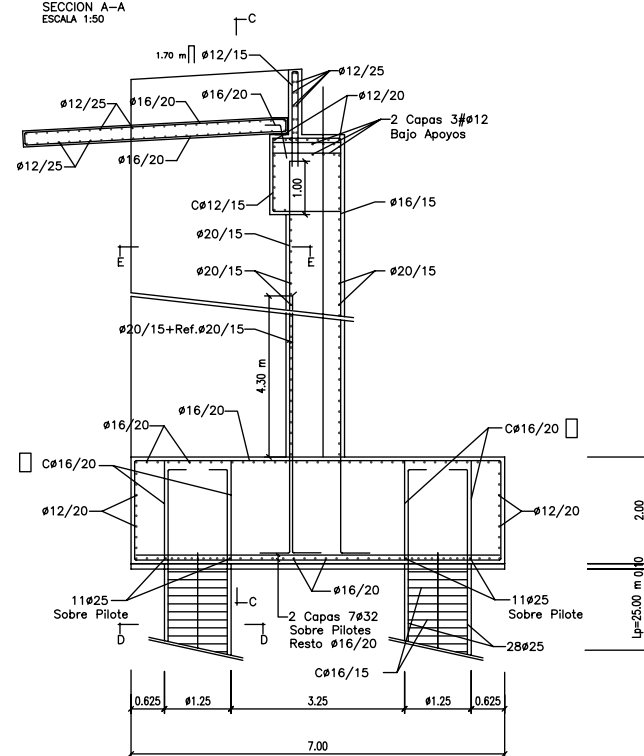
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PASO SUPERIOR P.S. - 02  
ESTRIBO -2 DEF. GEOMETRICA

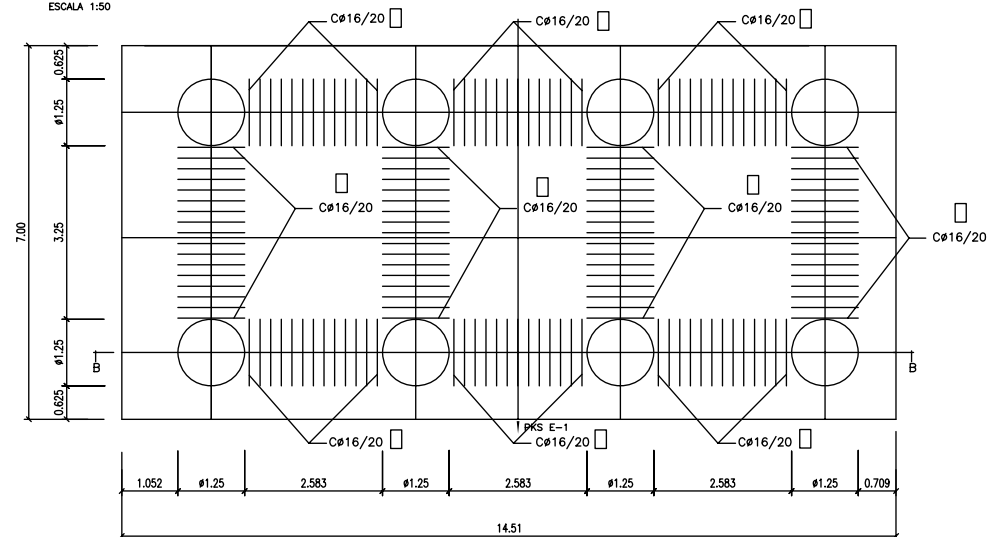
SECCION B-B  
ESCALA 1:50



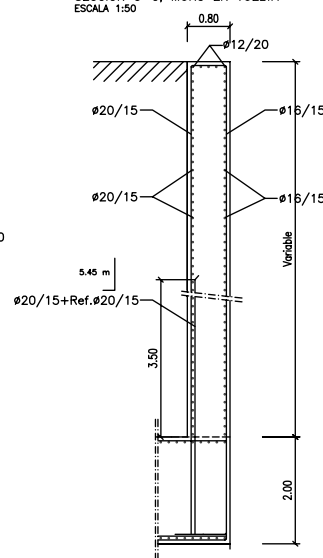
SECCION A-A  
ESCALA 1:50



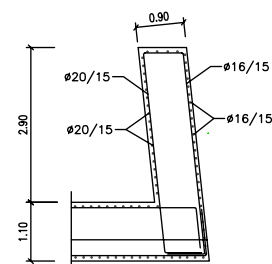
DETALLE PLANTA CERCOS  
ESCALA 1:50



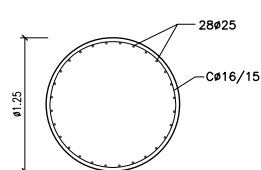
SECCION C-C, MURO EN VUELTA  
ESCALA 1:50



SECCION E-E, MURO EN VUELTA  
ESCALA 1:50



SECCION D-D, PILOTES  
ESCALA 1:50



| CUADRO DE CARACTERÍSTICAS EHE-99 |                    |                   |             |            |
|----------------------------------|--------------------|-------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION       | TIPO              | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCEPADO Y PILOTES | HA-30/B/20/IIa+Qn | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS            | HA-30/B/20/IIb    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA       | B 500 SD          | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA       |                   | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

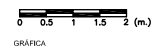
INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA ORIGINAL A1

1/50

NUMÉRICA



FECHA:

JULIO  
2009

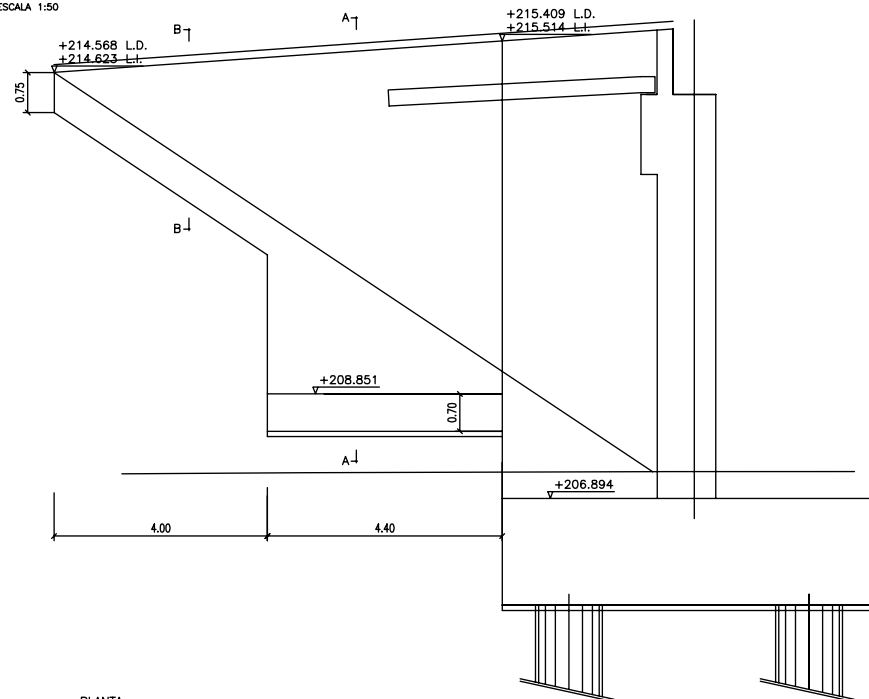
Nº DE PLANO:

8,2  
HOJA 11 de 18

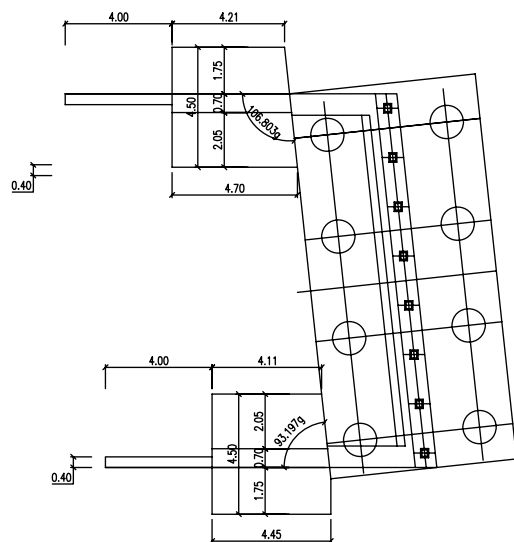
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PASO SUPERIOR P.S. -02  
ESTRIBO -2 ARMADURA

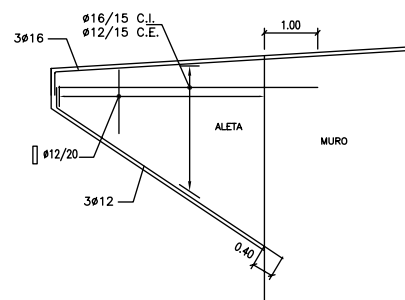
ALZADO  
ESCALA 1:50



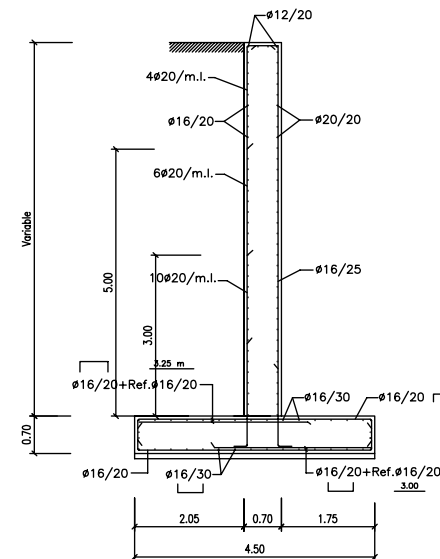
PLANTA  
ESCALA 1:100



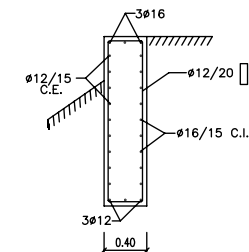
DETALLE ALETA-MURO  
ESCALA 1:50



SECCION A-A, ARMADURA  
ESCALA 1:50



SECCION B-B, ALETA  
ESCALA 1:25



NOTA: Se ha considerado una tensión  
admisible del terreno de 1.50 Kp/cm<sup>2</sup>.

| CUADRO DE CARACTERÍSTICAS EHE-99 |               |                   |             |            |
|----------------------------------|---------------|-------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION  | TIPO              | CONTROL     | COEF. SEG. |
| HORMIGON                         | CIMENTACIONES | HA-30/B/20/lig+ob | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS       | HA-30/B/20/lib    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA  | B 500 SD          | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA  |                   | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LÍNEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

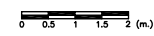
INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA  
ORIGINAL A1

1/50

NUMÉRICA



GRÁFICA

FECHA:

JULIO  
2009

Nº DE PLANO:

8.2

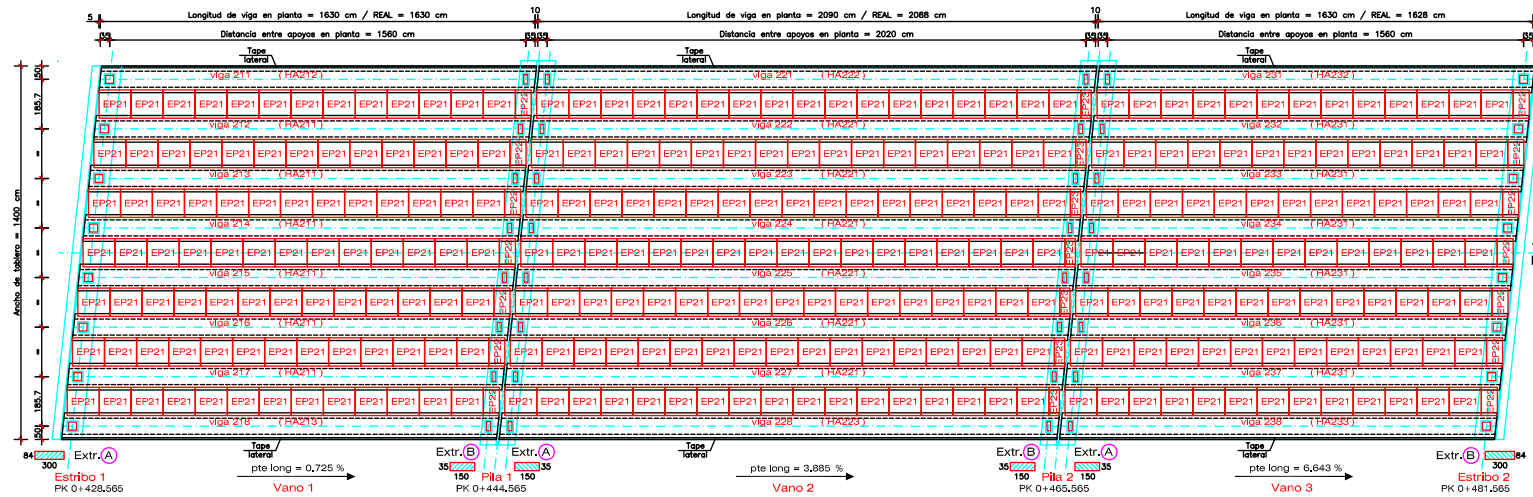
HOJA 8 de 18

TÍTULO DEL PLANO:

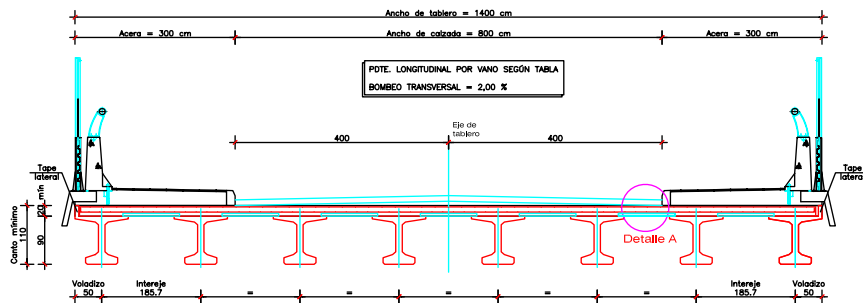
ESTRUCTURAS

PASO SUPERIOR P.S. - 02  
ESTRIBO -2 MURO Y ALETA

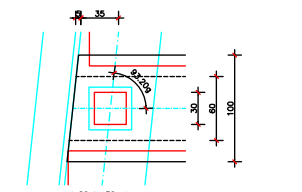




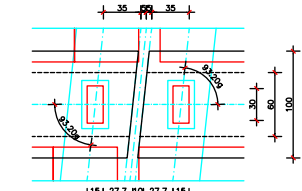
Planta  
Escala 1:100



Sección transversal  
Escala 1:50



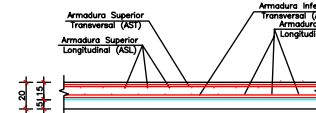
Detalle tipo de apoyos  
Planta zona estribos  
Escala 1:25



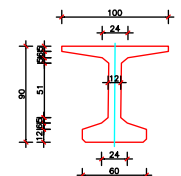
Detalle tipo de apoyos  
Planta zona pilas  
Escala 1:25

Detalle tipo de apoyos  
Alzado zona pila (pila 1)  
Escala 1:25

| Vano   | DIMENSIONES APOYOS |                | DIMENSIONES VIGAS |                 |                    |                  |                        |
|--------|--------------------|----------------|-------------------|-----------------|--------------------|------------------|------------------------|
|        | LADO ESTRIBO 1     | LADO ESTRIBO 2 | Entrega estr.1    | Entrega estr. 2 | Dist. entre apoyos | long. total REAL | Pendiente Longitudinal |
| vano 1 | 300x300x84         | 150x350x35     | 0.35              | 0.35            | 15.60              | 16.30            | 0.725 %                |
| vano 2 | 150x350x35         | 150x350x35     | 0.35              | 0.32            | 20.21              | 20.88            | 3.855 %                |
| vano 3 | 150x350x35         | 300x300x84     | 0.35              | 0.29            | 15.64              | 16.28            | 6.643 %                |



Detalle A: armado de losa  
Sin Escala



Sección viga 190A100  
Escala 1:25

#### NOTAS IMPORTANTES

- La posición exacta de los apoyos de neopreno en planta y alzado, así como su posicionamiento en obra, son competencia del contratista, institución PRECON al suministro de los mismos.
- La ubicación del mortero de nivelación se realizará de acuerdo al PG-3, artículo 602.3. Sus dimensiones en planta sobresaldrán en el menos 5 cm al contorno exterior del apoyo de neopreno.
- El cliente verificará que la altura del mortero de nivelación sea la adecuada para que la cresta del dintel no roce con la base inferior de la viga en los vanos 2 y 3.
- La armadura longitudinal en cada vano será paralela al eje de las vigas, y la transversal, perpendicular al mismo.
- Los escotes de las armaduras se realizarán de acuerdo a la norma EHE, alternando los ejes de dichos escotes.
- Se dispondrá en los extremos de los carriles #8 o 20 cm, paralelos a la armadura longitudinal de 1,00 m, de su planta, para un correcto posicionamiento en obra.
- Las vigas irán marcadas de fábrica en sus extremos (Extr. A y Extr. B) según planta, para un correcto posicionamiento en obra.

#### Responsabilidades de PRECON

PRECON se responsabiliza totalmente de los elementos prefabricados que suministra e monta, pero no asume responsabilidad alguna sobre partes de la obra que no corresponden a su actividad, tales como: cimentación, muros, pilas, bóvedas, bóvedas, pilares, etc., así como facilidades distribuciones, dimensiones y armados, ya que estos se dan a título informativo y quedan siempre sometidos al mejor criterio de la Dirección Facultativa de la obra.

En caso de suministrar productos no diseñados por PRECON, nuestra responsabilidad se limitará a la correcta fabricación, suministro y, en su caso, montaje de los mismos, pero no a su diseño ni comportamiento estructural, así como se realicen modificaciones en dicho diseño, convenidas con el cliente.

| Resumen de materiales |     |                             |                    |           |
|-----------------------|-----|-----------------------------|--------------------|-----------|
| Marca                 | Uds | Descripción                 | Medidas (m)        | Peso (kg) |
| HA211                 | 6   | Viga doble T 190A100        | 16.30              | 10750     |
| HA212                 | 1   | Viga doble T 190A100 + Tapa | 16.30              | 11325     |
| HA213                 | 1   | Viga doble T 190A100 + Tapa | 16.30              | 11325     |
| HA221                 | 6   | Viga doble T 190A100        | 20.88              | 14050     |
| HA222                 | 1   | Viga doble T 190A100 + Tapa | 20.88              | 14050     |
| HA223                 | 1   | Viga doble T 190A100 + Tapa | 20.88              | 14050     |
| HA321                 | 6   | Viga doble T 190A100        | 16.28              | 10750     |
| HA322                 | 1   | Viga doble T 190A100 + Tapa | 16.28              | 11325     |
| HA323                 | 1   | Viga doble T 190A100 + Tapa | 16.28              | 11325     |
| EP21                  | 301 | Placa armada                | 1.06 x 1.20 x 0.05 | 160       |
| EP22                  | 14  | Placa armada                | 1.06 x 0.60 x 0.05 | 80        |
| EP23                  | 7   | Placa armada                | 1.06 x 0.38 x 0.05 | 55        |
| NE021                 | 16  | Apoyo de neopreno           | 300x300x84         | ----      |
| NE022                 | 32  | Apoyo de neopreno           | 150x350x35         | ----      |

| CONTROL DE CALIDAD - "IN SITU" |               |                           |                                 |
|--------------------------------|---------------|---------------------------|---------------------------------|
| MATERIALES                     | DEFINICIÓN    | RESISTENCIA               | COEFICIENTE                     |
| VIGAS                          | HA-25/7/20/11 | f <sub>cd</sub> = 35 MPa  | $\gamma_s = 1.50$               |
|                                | HA-25/7/18/11 | f <sub>cd</sub> = 35 MPa  | $\gamma_s = 1.50$               |
|                                | HA-25/7/20/11 | f <sub>cd</sub> = 35 MPa  | $\gamma_s = 1.50$               |
| ACERO PASIVO                   | 8000S         | f <sub>yk</sub> = 500 MPa | $\gamma_s = 1.15$               |
|                                | 8000S         | f <sub>yk</sub> = 500 MPa | $\gamma_s = 1.15$               |
| EJECUCION                      |               | CARGA PERMANENTE          | CONTROL MEDIO $\gamma_s = 1.35$ |
|                                |               | CARGA VARIABLE            | CONTROL MEDIO $\gamma_s = 1.50$ |

| CONTROL DE CALIDAD - PREFABRICADO |               |                           |                                 |
|-----------------------------------|---------------|---------------------------|---------------------------------|
| MATERIALES                        | DEFINICIÓN    | RESISTENCIA               | COEFICIENTE                     |
| VIGAS                             | HA-25/7/20/11 | f <sub>cd</sub> = 35 MPa  | $\gamma_s = 1.50$               |
|                                   | HA-25/7/18/11 | f <sub>cd</sub> = 35 MPa  | $\gamma_s = 1.50$               |
|                                   | HA-25/7/20/11 | f <sub>cd</sub> = 35 MPa  | $\gamma_s = 1.50$               |
| ACERO PASIVO                      | 8000S         | f <sub>yk</sub> = 500 MPa | $\gamma_s = 1.15$               |
|                                   | 8000S         | f <sub>yk</sub> = 500 MPa | $\gamma_s = 1.15$               |
| EJECUCION                         |               | CARGA PERMANENTE          | CONTROL MEDIO $\gamma_s = 1.35$ |
|                                   |               | CARGA VARIABLE            | CONTROL MEDIO $\gamma_s = 1.50$ |
| FUERZA TIRO (ACTIVO 1)            |               | FUERZA TIRO (ACTIVO 2)    |                                 |
| = 164.75 kN/cable                 |               | = 192.21 kN/cable         |                                 |

La aceptación de este plano implica la del cálculo correspondiente presentado por PRECON.

CONFORME EL CLIENTE

FECHA

FIRMA Y SELLO

Normativa aplicada

Cargas: IAP-98

Hormigón: EHE

INDICE

FECHA

DESCRIPCION

DIBUJADO

COMPROBADO

DIBUJADO: 18/09/09 S. Burgo

COMPROBADO: 19/09/09 D. Martínez

CLAVE: 80370, 80371, 80372, 80373, 80374, 80375, 80376, 80377, 80378, 80379, 80380, 80381, 80382, 80383, 80384, 80385, 80386, 80387, 80388, 80389, 80390, 80391, 80392, 80393, 80394, 80395, 80396, 80397, 80398, 80399, 80400, 80401, 80402, 80403, 80404, 80405, 80406, 80407, 80408, 80409, 80410, 80411, 80412, 80413, 80414, 80415, 80416, 80417, 80418, 80419, 80420, 80421, 80422, 80423, 80424, 80425, 80426, 80427, 80428, 80429, 80430, 80431, 80432, 80433, 80434, 80435, 80436, 80437, 80438, 80439, 80440, 80441, 80442, 80443, 80444, 80445, 80446, 80447, 80448, 80449, 80450, 80451, 80452, 80453, 80454, 80455, 80456, 80457, 80458, 80459, 80460, 80461, 80462, 80463, 80464, 80465, 80466, 80467, 80468, 80469, 80470, 80471, 80472, 80473, 80474, 80475, 80476, 80477, 80478, 80479, 80480, 80481, 80482, 80483, 80484, 80485, 80486, 80487, 80488, 80489, 80490, 80491, 80492, 80493, 80494, 80495, 80496, 80497, 80498, 80499, 80500, 80501, 80502, 80503, 80504, 80505, 80506, 80507, 80508, 80509, 80510, 80511, 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MINISTERIO DE FOMENTO  
Secretaría de Estado de Planificación e  
Infraestructuras  
Dirección General de Infraestructuras  
Ferrovias

## **ANEJO 2: PROYECTO DE PRUEBA DE CARGA**

Madrid, Febrero de 2010

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MINISTERIO DE FOMENTO

SECRETARÍA DE ESTADO DE PLANIFICACIÓN E  
INFRAESTRUCTURAS

SECRETARÍA GENERAL DE INFRAESTRUCTURAS

DIRECCIÓN GENERAL DE INFRAESTRUCTURAS  
FERROVIARIAS

**"ENCOMIENDA DE GESTIÓN DEL MINISTERIO DE FOMENTO -  
SECRETARÍA DE ESTADO DE PLANIFICACIÓN E INFRAESTRUCUTRAS  
(DIRECCIÓN GENERAL DE INFRAESTRUCUTRAS FERROVIARIAS) A LA  
SOCIEDAD MERCANTIL ESTATAL INGENIERÍA Y ECONOMÍA DEL  
TRANSPORTE, S.A. PARA LA REALIZACIÓN DE INSPECCIONES,  
PRUEBAS DE CARGA Y AUSCULTACIÓN EN PUENTES Y  
ESTRUCTURAS"**

**EXPEDIENTE: 200900828**



DOCUMENTO:

## **PROYECTO DE PRUEBA DE CARGA**

**ESTRUCTURA 2 DE LA SUPRESIÓN DE PASO A NIVEL EN CASETAS  
(ZARAGOZA)**

**LÍNEA ZARAGOZA - ALSASUA P.K. 15/717**

CONSULTOR:



Ref:

**PC-Z-10-12**

Fecha:

**Enero 2010**

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## **1. INTRODUCCIÓN**

A instancias de la Dirección General de Infraestructuras Ferroviarias (DGIF), de la Secretaría de Estado de Infraestructuras del Ministerio de Fomento, se redacta el presente documento, cuyo objetivo es la especificación de la prueba de carga del Paso Superior PS-02 que cruza a la Línea Zaragoza - Alsasua P.K. 15/717 en Casetas (Zaragoza), previa a la recepción de las obras.

La elaboración del presente documento se inscribe dentro del marco del contrato de "Encomienda de gestión del Ministerio de Fomento - Secretaría de Estado de Planificación e Infraestructuras (Dirección General de Infraestructuras Ferroviarias) a la Sociedad Mercantil Estatal Ingeniería y Economía del Transporte, S.A. para la realización de inspecciones, pruebas de carga y auscultación en puentes y estructuras".

## **2. DATOS SOBRE LA ESTRUCTURA**

La estructura objeto de este proyecto es un paso superior a la Línea Zaragoza - Alsasua P.K. 15/717, en Casetas (Zaragoza).

Consiste en una estructura compuesta por tres vanos isostáticos de luces 16,30 m – 20,90 m – 16,30 m entre ejes de apoyo siendo la longitud total del puente de 53,50 metros. Se trata de una estructura esviada, con un esviaje de 6,803°. La sección superior está formada por dos carriles de 3,50 metros de anchura, dos arcenes de 1,00 metros y dos aceras de 1,80 metros.

La sección transversal del tablero estará formada por 8 vigas prefabricadas pretensadas con sección tipo de doble T y un canto de 0,90 metros. Sobre ellas y siendo la cabeza de compresión de las mismas, se dispone una losa de hormigón armado con un espesor mínimo de 0,20 metros, con una anchura de 14,00 metros.

El dintel está soportado por tres pilas circulares de 1,00 metros de diámetro, con cimentación profunda mediante tres pilotes circulares de 1,25 metros de diámetros y 25 metros de longitud. Los aparatos de apoyo que lo sustentan son de neopreno zunchado de dimensiones 200x250x52 mm.

Los estribos serán cerrados con muros en vuelta, sobre cada uno descansarán 8 apoyos de neopreno zunchado de dimensiones 200x250x52 mm. La altura de los muros estará entorno a 8,75 metros para el estribo 1 y entorno a 7,57 metros para el estribo 2. Se cimentarán mediante 8 pilotes, de 1,25 m de diámetro y 25 m de longitud, y encepado.

La documentación facilitada es de Apéndice 2 del Proyecto Constructivo (Modificación nº1) de Supresión de los Pasos a Nivel de las Líneas Madrid – Barcelona, P.K. 327/514 Y Zaragoza – Alsasua, P.K. 15/717, En Casetas (Zaragoza). En el caso de este Paso Superior PS-02 que nos ocupa, se dispone de los planos del proyecto construido correspondiente y del anejo de cálculo de la estructura, proporcionado por la UTE CASETAS

### **3. INSPECCIÓN PRELIMINAR Y ANÁLISIS DEL PROYECTO**

#### **3.1.- INSPECCIÓN PRELIMINAR.**

La inspección previa a la realización de la Prueba de Carga fue realizada por el Ingeniero de Caminos de INECO D. Pablo Sánchez Gareta, en fecha 17 de Diciembre de 2009, junto con el Ingeniero Técnico de Obras Públicas de la DGIF, D. Juan Carlos Aceituno Pinilla. Se indican a continuación los resultados de dicha inspección para cada uno de los aspectos considerados:

- 1 Ubicación y entorno: La obra no presenta especiales problemas de comunicación.
- 2 La accesibilidad a la estructura es buena. A pesar de ello, para la instrumentación de la estructura será preciso el empleo de un camión grúa.
- 3 Estado de los elementos estructurales: No se detectaron anomalías que pudieran afectar significativamente a la capacidad portante de la estructura.
- 4 Geometría y tipología de la estructura: Durante la Inspección Preliminar se observó que, la documentación de Proyecto facilitada se correspondía con la obra ejecutada.

- 5 Dificultades y viabilidad para la realización de la Prueba de Carga: La única dificultad reseñada es el empleo durante la instrumentación de un camión grúa.

### **3.2.- ANÁLISIS DEL PROYECTO.**

La documentación de Proyecto facilitada consta del Anejo de Cálculo de la estructura y los planos cuya copia se incluye en el Anejo I del presente documento.

Basándose en esta documentación se ha realizado una evaluación del cálculo estructural del Paso (que puede consultarse en el Anejo III), con resultados favorables partiendo de las siguientes premisas:

- Las acciones consideradas en el proyecto de la estructura son acordes con las especificaciones de la “Instrucción de Acciones a Considerar en el Proyecto de Puentes de Carretera”.
- Las características de los materiales y los coeficientes de cálculo adoptados son acordes con lo especificado en la EHE.
- El proceso de cálculo de esfuerzos y dimensionado se ha realizado de acuerdo con la Normativa en vigor.
- El dimensionado que figura en los planos es acorde a los cálculos realizados respetando los niveles de seguridad establecidos.

## **4. JUSTIFICACIÓN DE LA CARGA DE PRUEBA**

Debido a que la obra que se estudia soporta una carretera, los ensayos se realizarán con 4 camiones en las pruebas estáticas y uno en las pruebas dinámicas.

El tipo de camión seleccionado ha sido de 3 ejes de 7, 9.5 y 9.5 toneladas, respectivamente, con un peso total de 26 toneladas por camión, pudiéndose observar las correspondientes distribuciones de cargas por eje en el ANEJO IV.

En la prueba estática, se realizarán tres posiciones de carga, una por cada vano, de acuerdo con lo que se define en el croquis de situación de cargas del ANEJO IV.

Para las pruebas dinámicas se hará uso del tren de carga, formado por un camión, circulando por el puente a distintas velocidades. Se realizaran un total de tres ensayos: ensayo cuasiestático, ensayo dinámico rápido y ensayo con tablón RILEM.

Con el tren de carga descrito, se ha realizado para este tipo de tablero un cálculo en ordenador, obteniéndose a partir del mismo los valores esperados para las medidas que se realizarán durante la prueba.

De los cálculos de Proyecto, se han obtenido los esfuerzos en la estructura para el tren de cargas de la Instrucción de Puentes de Carretera, con el fin de determinar los porcentajes que suponen las cargas a utilizar en las pruebas respecto de las teóricas de proyecto, y evaluar de esta forma la eficiencia de los ensayos.

Siguiendo el proceso de cálculo, se han calculado tanto las relaciones entre las cargas de prueba y las de proyecto, como los porcentajes entre los momentos flectores obtenidos para los trenes de carga en los ensayos estáticos y para las cargas de la Instrucción. El porcentaje obtenido relaciona las cargas de prueba con los trenes de carga de la Instrucción (sobrecarga de carro).

De los resultados de las pruebas se ha obtenido, para el máximo momento flector, los siguientes valores:

| Parámetro de comparación                              | Momento de sobrecarga en Proyecto (Tn·m) | Momento de sobrecarga en Prueba (Tn·m) | % Alcanzado en prueba |
|-------------------------------------------------------|------------------------------------------|----------------------------------------|-----------------------|
| Momento flector positivo máximo (Vano 2, Vigas 4 y 5) | 88,3                                     | 58,3                                   | 66,0%                 |

## **5. MEDIDAS A REALIZAR**

En el tablero del puente, sobre el que se realizarán las pruebas estáticas, se analizarán diferentes puntos, con el fin de obtener en ellos flechas y deformaciones unitarias según el siguiente plan de instrumentación que queda reflejado en el ANEJO IV de este documento.

### **5.1.- FLECHAS**

Para la medida de las flechas se dispondrán cuatro transductores de desplazamiento en el centro de cada vano en vigas alternas y cuatro transductores de desplazamiento en los apoyos, en las mismas vigas que los de centro de vano.

### **5.2.- DEFORMACIONES UNITARIAS**

Se dispondrán cuatro galgas extensométricas en el centro de cada vano, en vigas alternas, en las que no se disponen potenciómetros.

### **5.3.- REGISTRO DE VIBRACIONES**

Durante las pruebas dinámicas, se procederá, mediante la colocación de un acelerómetro en el centro de cada vano, al registro de las vibraciones del tablero, con el fin de obtener la frecuencia propia de oscilación del mismo.

## **6. PLAN DE CARGA Y PROGRAMACIÓN DEL ENSAYO**

Las pruebas de carga se ejecutarán de la siguiente forma:

### **6.1.- PRUEBAS ESTÁTICAS**

En el tramo que forma la estructura, se colocará el tren de cargas correspondiente en la posición que se indica en los croquis de situación de cargas del ANEJO IV.

Las medidas se realizarán de acuerdo con los siguientes escalones:

- *Escalón 0* : Lectura en vacío y puesta a cero de los aparatos de medida.
- *Escalón 1* : Colocación del tren de cargas en la posición de prueba, con registro continuo de medidas durante un tiempo no inferior a 15 minutos. El proceso de carga se realizará en una fase.
- *Escalón 2* : Descarga de la estructura. Se realizarán medidas continuas hasta alcanzar una recuperación del 80% en un intervalo de tiempo no superior al de mantenimiento de la carga.

#### 6.2.- PRUEBAS DINÁMICAS

- *Ensayo Cuasiestático*: Paso del camión por el centro de la estructura circulando a la velocidad de 5 km/h (paso de hombre).
- *Ensayo Dinámico Rápido*: Paso del camión a la máxima velocidad compatible con su seguridad y la de la estructura.
- *Ensayo Dinámico con tablero Rilem*: Paso del camión circulando a la máxima velocidad posible, interponiendo en su trayectoria, en el centro del vano, un tablón normalizado RILEM.

#### 7. PREVISIÓN DE RESULTADOS

A partir de los cálculos que se adjuntan en el ANEJO II se obtienen los valores de las flechas y deformaciones unitarias teóricas esperadas en los distintos puntos instrumentados, así como su frecuencia propia de vibración teórica.

En el cuadro siguiente, se reflejan los valores esperados:

**ESTÁTICA N° 1 (Vano con 15,6m de longitud entre apoyos). Cuatro camiones de 26 Tn enfrentados dos a dos en centro de vano.**

| PUNTO | TRAMO | POSICION   | UD. | VALOR ESPERADO |
|-------|-------|------------|-----|----------------|
| P111  | 1     | L/2 VIGA 1 | mm  | -0,03          |
| P121  | 1     | L/2 VIGA 2 | mm  | -1,24          |
| P131  | 1     | L/2 VIGA 3 | mm  | -2,59          |
| P141  | 1     | L/2 VIGA 4 | mm  | -3,39          |
| P151  | 1     | L/2 VIGA 5 | mm  | -3,39          |
| P161  | 1     | L/2 VIGA 6 | mm  | -2,59          |
| P171  | 1     | L/2 VIGA 7 | mm  | -1,24          |
| P181  | 1     | L/2 VIGA 8 | mm  | -0,03          |
| G11   | 1     | L/2 VIGA 1 | μE  | 1              |
| G12   | 1     | L/2 VIGA 2 | μE  | 28             |
| G13   | 1     | L/2 VIGA 3 | μE  | 55             |
| G14   | 1     | L/2 VIGA 4 | μE  | 73             |
| G15   | 1     | L/2 VIGA 5 | μE  | 73             |
| G16   | 1     | L/2 VIGA 6 | μE  | 55             |
| G17   | 1     | L/2 VIGA 7 | μE  | 28             |
| G18   | 1     | L/2 VIGA 8 | μE  | 1              |

**ESTÁTICA N° 2 (Vanos con 20,2m de longitud entre apoyos). Cuatro camiones de 26 Tn enfrentados dos a dos en centro de vano.**

| PUNTO | TRAMO | POSICION   | UD. | VALOR ESPERADO |
|-------|-------|------------|-----|----------------|
| P211  | 2     | L/2 VIGA 1 | mm  | -0,99          |
| P221  | 2     | L/2 VIGA 2 | mm  | -4,11          |
| P231  | 2     | L/2 VIGA 3 | mm  | -7,16          |
| P241  | 2     | L/2 VIGA 4 | mm  | -8,98          |
| P251  | 2     | L/2 VIGA 5 | mm  | -8,98          |
| P261  | 2     | L/2 VIGA 6 | mm  | -7,16          |
| P271  | 2     | L/2 VIGA 7 | mm  | -4,11          |
| P281  | 2     | L/2 VIGA 8 | mm  | -0,99          |
| G21   | 2     | L/2 VIGA 1 | μE  | 13             |
| G22   | 2     | L/2 VIGA 2 | μE  | 56             |
| G23   | 2     | L/2 VIGA 3 | μE  | 92             |
| G24   | 2     | L/2 VIGA 4 | μE  | 116            |
| G25   | 2     | L/2 VIGA 5 | μE  | 116            |
| G26   | 2     | L/2 VIGA 6 | μE  | 92             |
| G27   | 2     | L/2 VIGA 7 | μE  | 56             |
| G28   | 2     | L/2 VIGA 8 | μE  | 13             |

**ESTÁTICA N° 3 (Vano con 15,6m de longitud entre apoyos). Cuatro camiones de 26 Tn enfrentados dos a dos en centro de vano.**

| PUNTO | TRAMO | POSICION   | UD. | VALOR ESPERADO |
|-------|-------|------------|-----|----------------|
| P311  | 3     | L/2 VIGA 1 | mm  | -0,03          |
| P321  | 3     | L/2 VIGA 2 | mm  | -1,24          |
| P331  | 3     | L/2 VIGA 3 | mm  | -2,59          |
| P341  | 3     | L/2 VIGA 4 | mm  | -3,39          |
| P351  | 3     | L/2 VIGA 5 | mm  | -3,39          |
| P361  | 3     | L/2 VIGA 6 | mm  | -2,59          |
| P371  | 3     | L/2 VIGA 7 | mm  | -1,24          |
| P381  | 3     | L/2 VIGA 8 | mm  | -0,03          |
| G31   | 3     | L/2 VIGA 1 | μE  | 1              |
| G32   | 3     | L/2 VIGA 2 | μE  | 28             |
| G33   | 3     | L/2 VIGA 3 | μE  | 55             |
| G34   | 3     | L/2 VIGA 4 | μE  | 73             |
| G35   | 3     | L/2 VIGA 5 | μE  | 73             |
| G36   | 3     | L/2 VIGA 6 | μE  | 55             |
| G37   | 3     | L/2 VIGA 7 | μE  | 28             |
| G38   | 3     | L/2 VIGA 8 | μE  | 1              |

El valor estimado para la frecuencia fundamental de flexión de los vanos 1 y 3 es de 6,57 Hz; mientras que para el vano 2 es de 3,82 Hz.

El proyecto consta de diez páginas numeradas y ha sido realizado y visado por el personal técnico de la Dirección de Estructuras de INECO.

Madrid, Enero de 2010

EL JEFE DE LA DIVISIÓN  
INSTRUMENTACIÓN Y ENSAYOS

INGENIERO AUTOR DEL PROYECTO



Fdo.: Justo Carretero Pérez



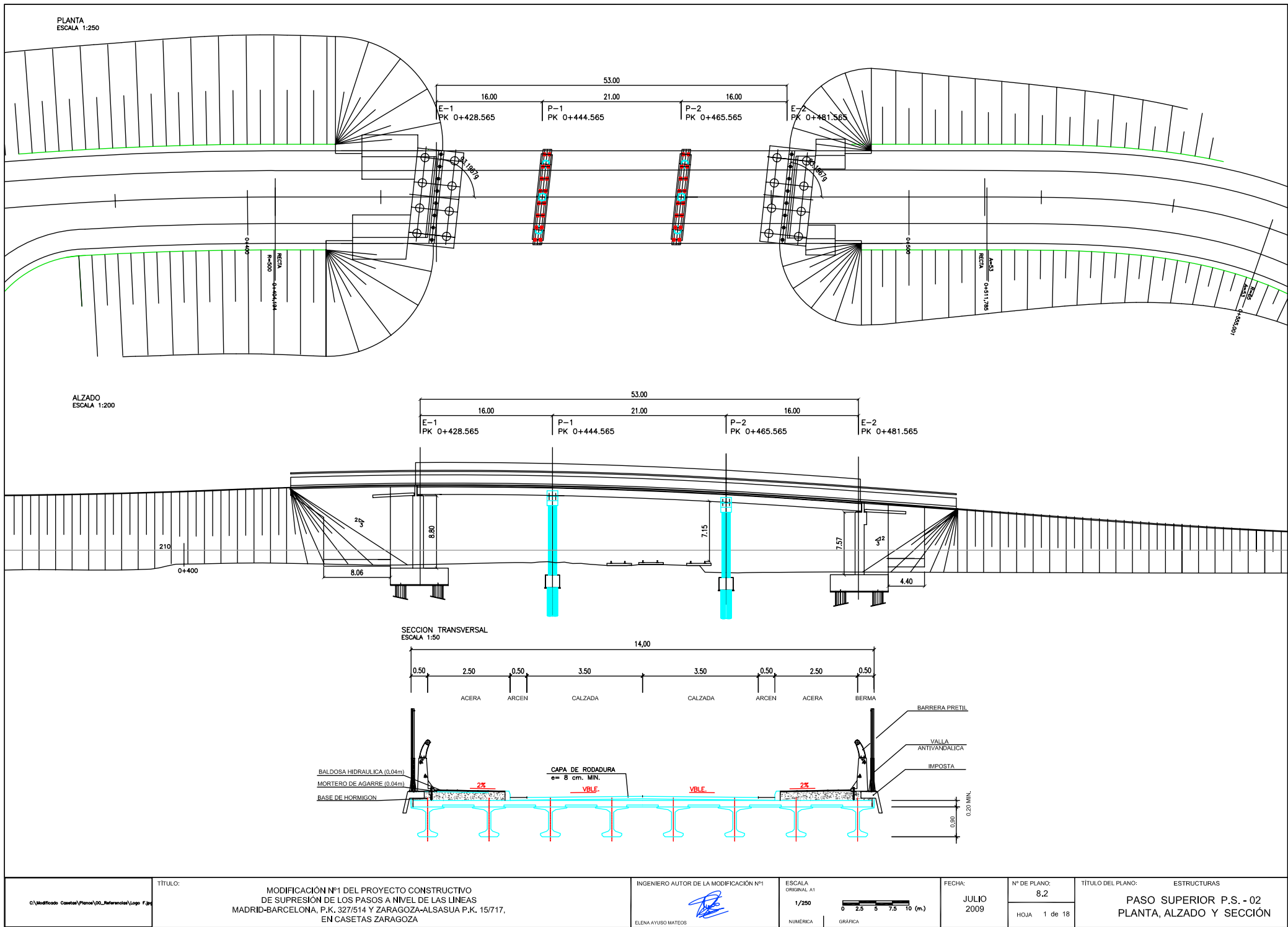
Fdo.: Pablo Sánchez Gareta

EL DIRECTOR DE ESTRUCTURAS

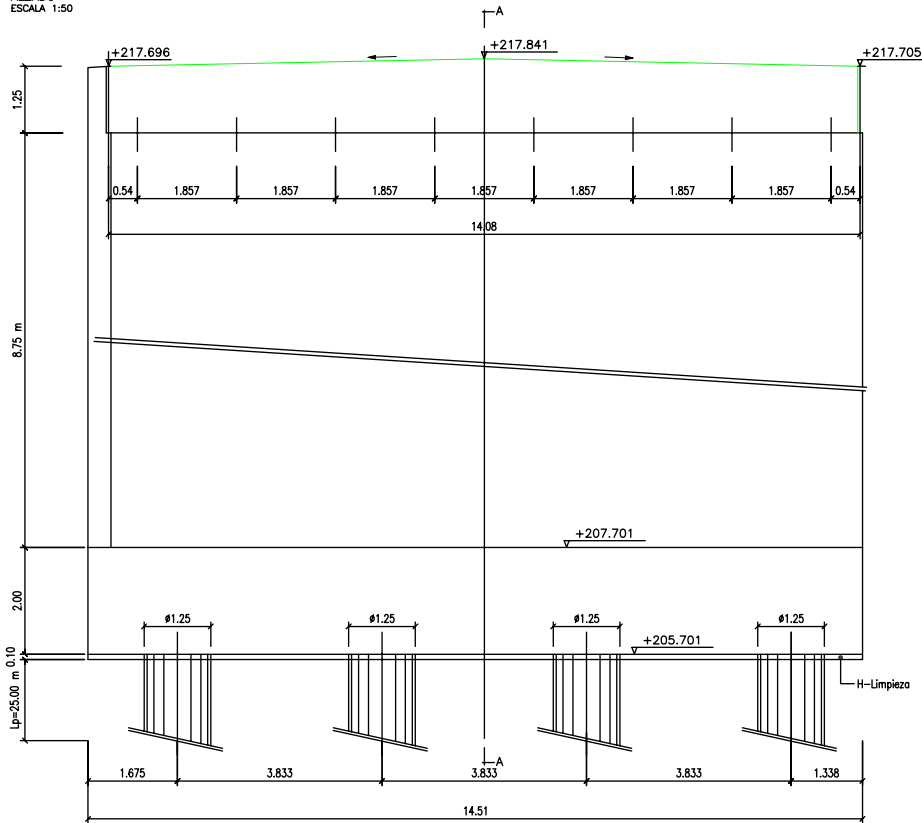


Fdo.: Javier Cortezo García

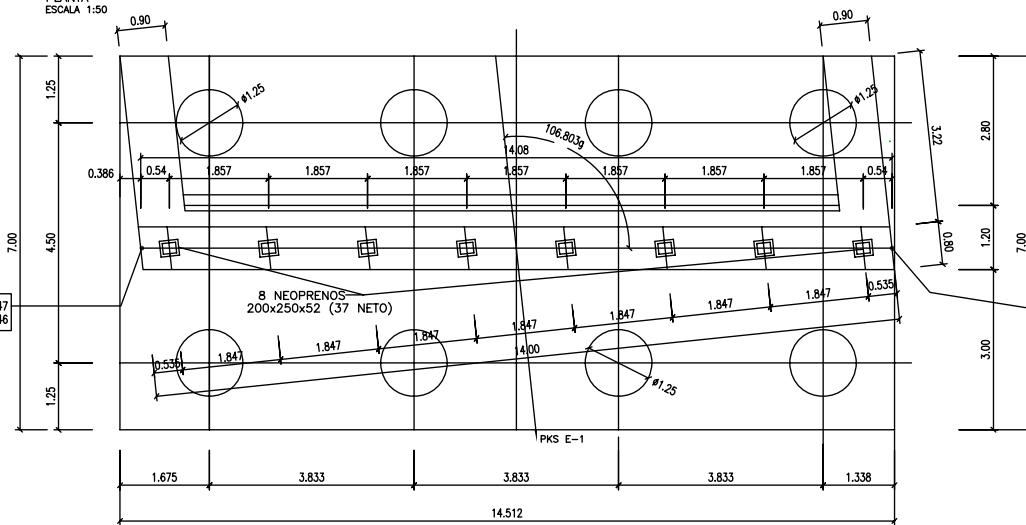
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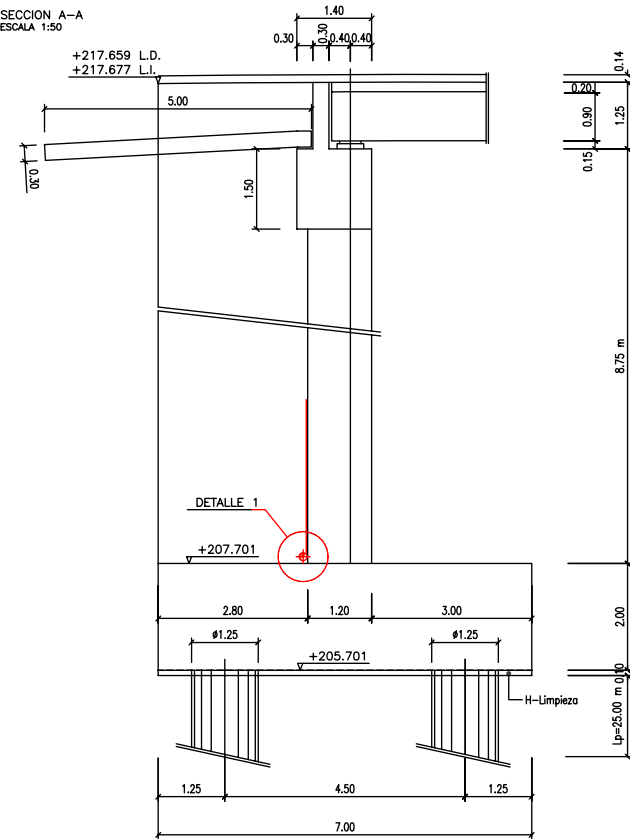
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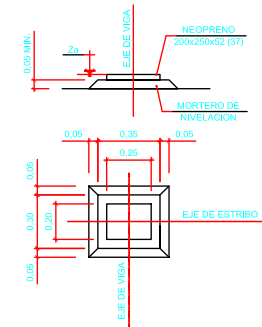
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ESCALA 1:50



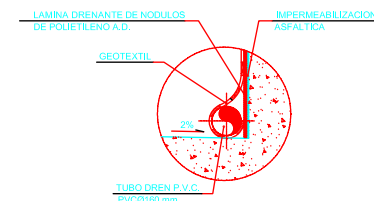
SECCION A-A  
ESCALA 1:50



DETALLE DE NEOPRENOS  
ESCALA 1/15



DETALLE 1 (TUBO -DREN)  
SIN ESCALA



| CUADRO DE CARACTERISTICAS EHE-99 |                    |                  |             |            |
|----------------------------------|--------------------|------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION       | TIPO             | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCAPADO Y PILOTES | HA-30/B/20/1a+2b | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS            | HA-30/B/20/1b    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA       | B 500 SD         | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA       |                  | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

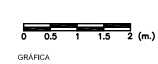
ELENA AYUSO MATEOS

ESCALA

ORIGINAL A1

1/50

NÚMÉRICA



FECHA:

JULIO  
2009

Nº DE PLANO:

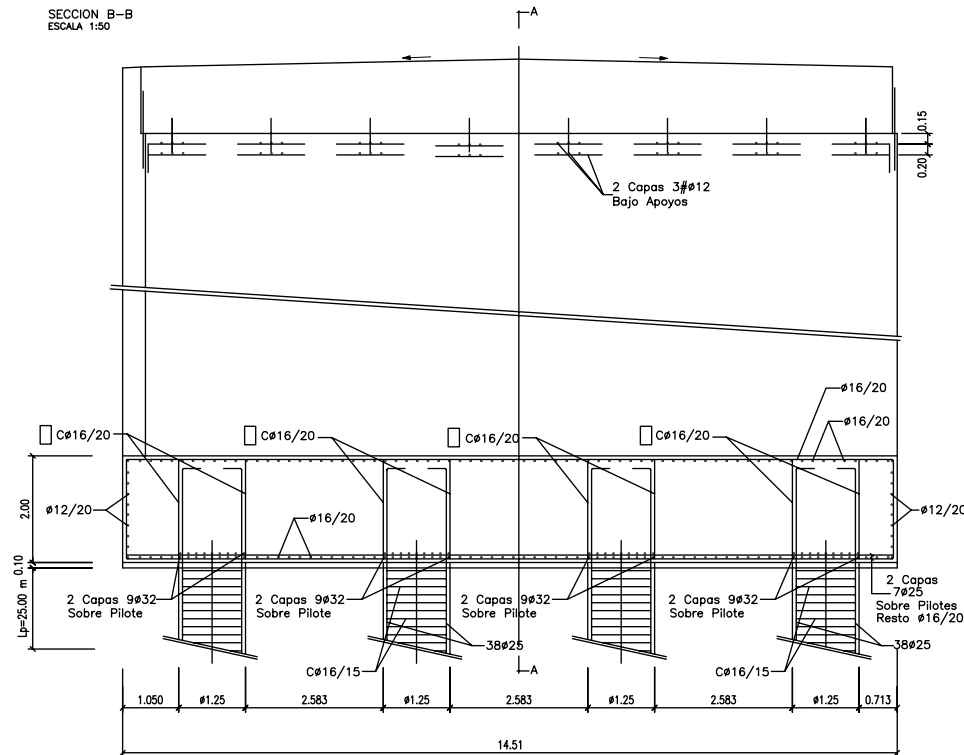
8.2

HOJA 3 de 18

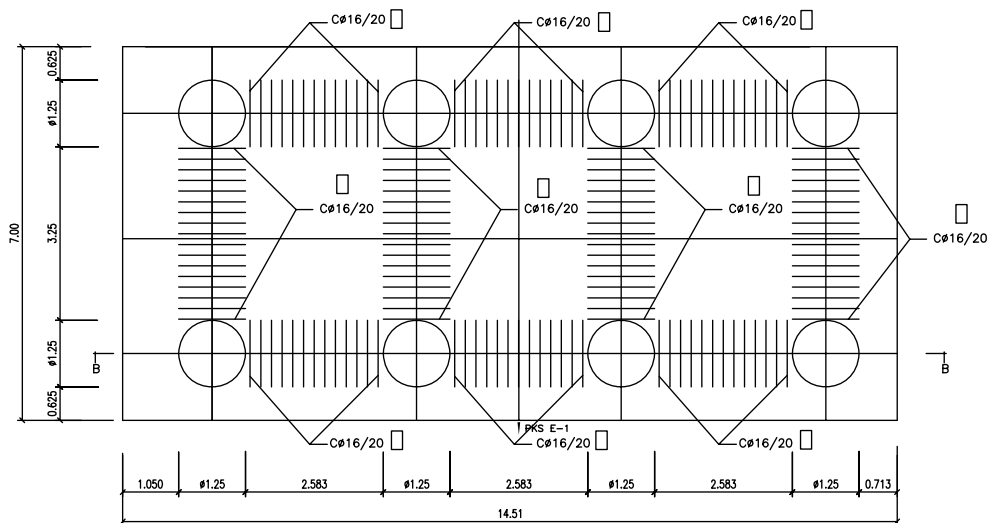
TÍTULO DEL PLANO: ESTRUCTURAS

PASO SUPERIOR P.S. - 02  
ESTRIBO -1 DEF. GEOMETRICA

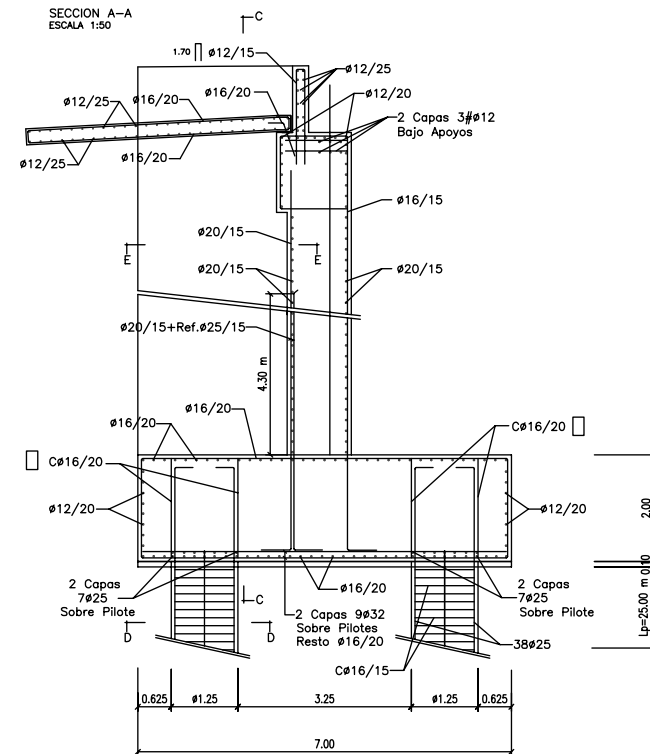
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ESCALA 1:50



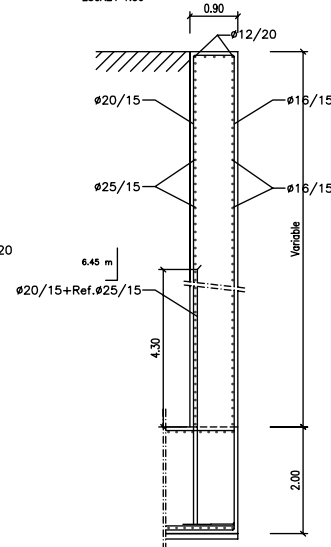
DETALLE PLANTA CERCOS  
ESCALA 1:50



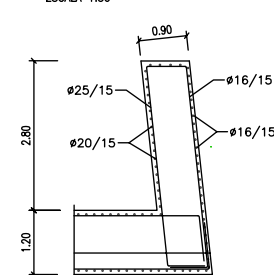
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ESCALA 1:50



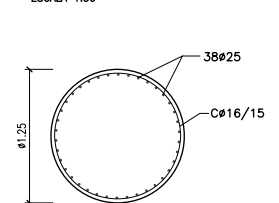
SECCION C-C, MURO EN VUELTA  
ESCALA 1:50



SECCION E-E, MURO EN VUELTA  
ESCALA 1:50



SECCION D-D, PILOTES  
ESCALA 1:50



| CUADRO DE CARACTERISTICAS EHE-99 |                    |                  |             |            |
|----------------------------------|--------------------|------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION       | TIPO             | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCEPADO Y PILOTES | HA-30/B/20/1a+qb | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS            | HA-30/B/20/1b    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA       | B 500 SD         | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA       |                  | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

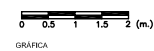
INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA ORIGINAL A1

1/50

NUMÉRICA



FECHA:

JULIO  
2009

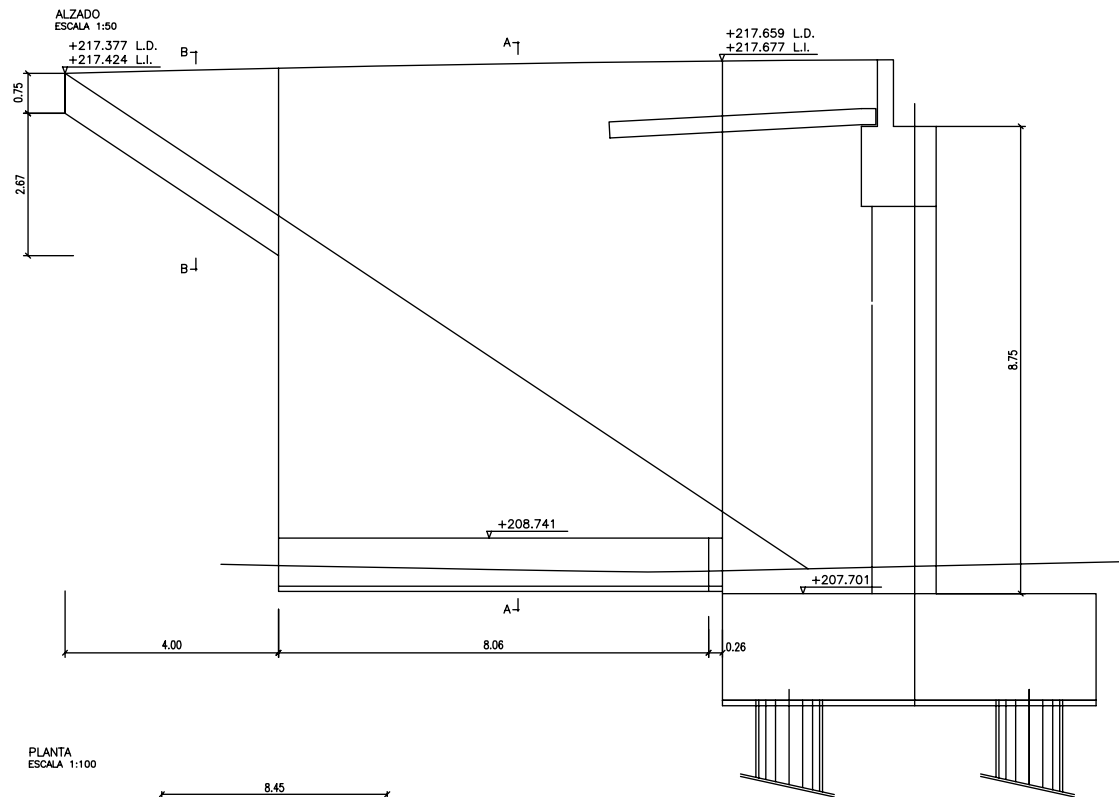
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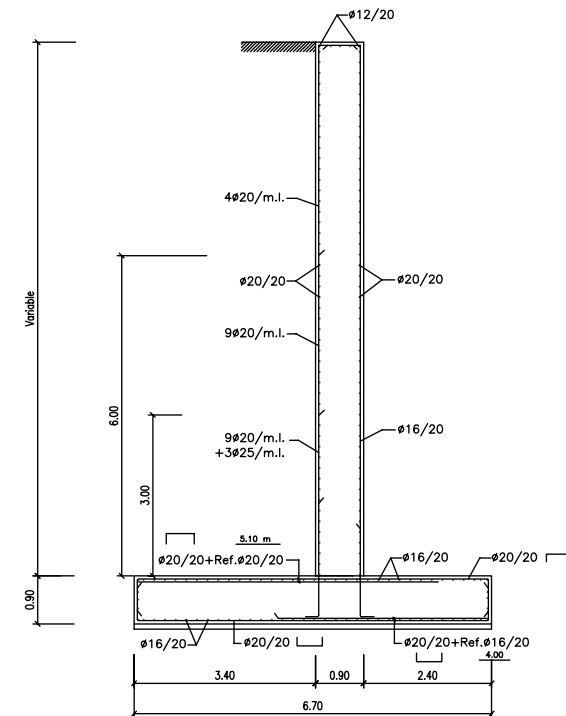
HOJA 9 de 18

TÍTULO DEL PLANO: ESTRUCTURAS

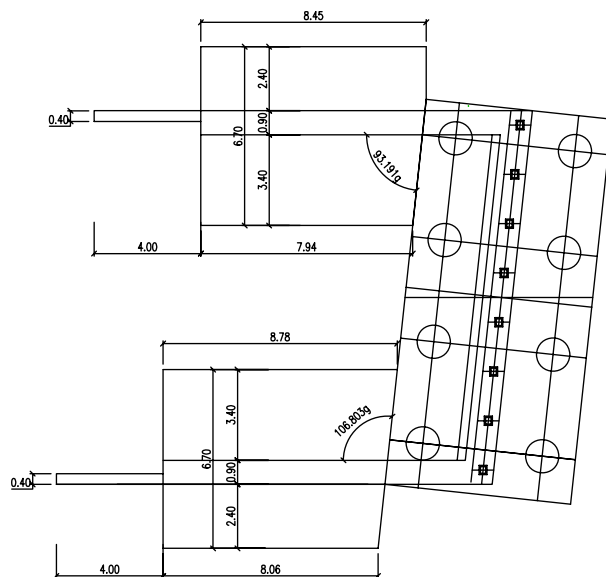
PASO SUPERIOR P.S. - 02  
ESTRIBO -1 ARMADURA



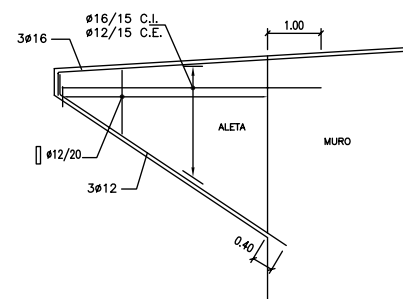
SECCION A-A, ARMADURA  
ESCALA 1:50



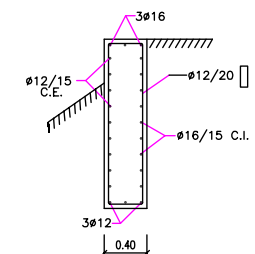
PLANTA  
ESCALA 1:100



DETALLE ALETA-MURO  
ESCALA 1:50



SECCION B-B, ALETA  
ESCALA 1:25



NOTA: Se ha considerado una tensión admisible del terreno de 1,50 Kg/cm<sup>2</sup>.

| CUADRO DE CARACTERÍSTICAS EHE-99                 |               |                  |             |            |
|--------------------------------------------------|---------------|------------------|-------------|------------|
| ELEMENTO                                         | LOCALIZACION  | TIPO             | CONTROL     | COEF. SEG. |
| HORMIGON                                         | CIMENTACIONES | HA-30/B/20/1a+Qb | ESTADISTICO | 1.50       |
| HORMIGON                                         | ALZADOS       | HA-30/B/20/1b    | ESTADISTICO | 1.50       |
| PASIVAS                                          | TODA LA OBRA  | B 500 SD         | NORMAL      | 1.15       |
| EJECUCION                                        | TODA LA OBRA  | INTENSO          | 1.35/1.50   |            |
| Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados |               |                  |             |            |

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA  
ORIGINAL A1

1/50

NUMÉRICA

0 0.5 1 1.5 2 (m.)

GRÁFICA

FECHA:

JULIO  
2009

Nº DE PLANO:

8,2

HOJA 7 de 18

TÍTULO DEL PLANO: ESTRUCTURAS

PASO SUPERIOR P.S. - 02  
ESTRIBO -1 MURO Y ALETA

ESCALA 1:50

7.57 m

1.39

2.00

0.10

14.08

14.51

+215.767

+215.854

+215.662

+206.894

+204.894

H-Limpieza

0.54

1.857

1.857

1.857

1.857

1.857

1.857

1.857

1.857

0.54

1.677

3.833

3.833

3.834

1.333

Ø1.25

Ø1.25

Ø1.25

Ø1.25

A

ESCALA 1:50

8 NEOPRENOS  
200x250x52 (37 NETO)

Dimensions and coordinates:

- Overall width: 14.51
- Overall height: 7.00
- Top edge dimensions: 1.677, 3.833, 3.833, 3.834, 1.333
- Bottom edge dimensions: 0.54, 1.857, 1.857, 1.857, 1.857, 1.857, 1.857, 0.54
- Left edge dimensions: 1.25, 4.50, 1.25
- Right edge dimensions: 2.90, 1.10, 3.00
- Internal dimensions: 0.80, 3.12, 0.80, 0.30, 0.40, 1.40
- Coordinates:
  - X=664357.367, Y=4621423.118
  - X=664369.009, Y=4621415.199
- Other labels: 118.475, 106.805, 1.847, 1.846, 0.538, 0.247, 1.847, 0.538

SECTION A-A  
ESCALA 1:50

+215.409 L.D.  
+215.514 L.I.

0.5%

1.40  
0.30 0.30 0.40 0.40

5.00

0.05

DETALLE 1

+206.894

2.90 1.10 3.00

+204.894

2.00

25.00 m

1.25 4.50 1.25

7.00

0.20  
0.90  
0.15

0.14  
1.25

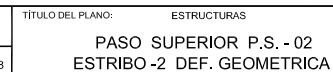
Diagrama de un sistema de drenaje en un pavimento. Se muestra una sección transversal con varias capas: una capa superior de asfalto impermeabilizada, seguida de una lámina drenante de nódulos de polietileno A.D., luego un geotextil, y finalmente un tubo drenador de PVC con una ranura de 20 cm. El tubo está rodeado de grava y tiene una salida lateral.

C:\Modificado Casetas\Planes\00\_Referencias\Logo F.jpg

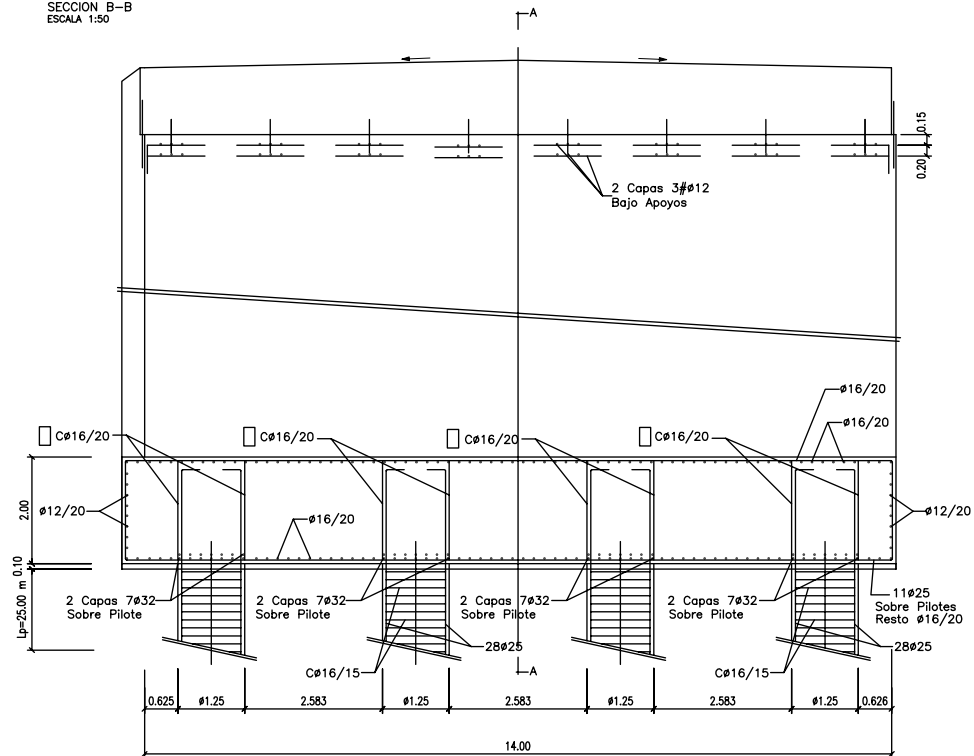
MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LÍNEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/17,  
EN CASETAS ZARAGOZA

ELENA AYUSO MATEOS

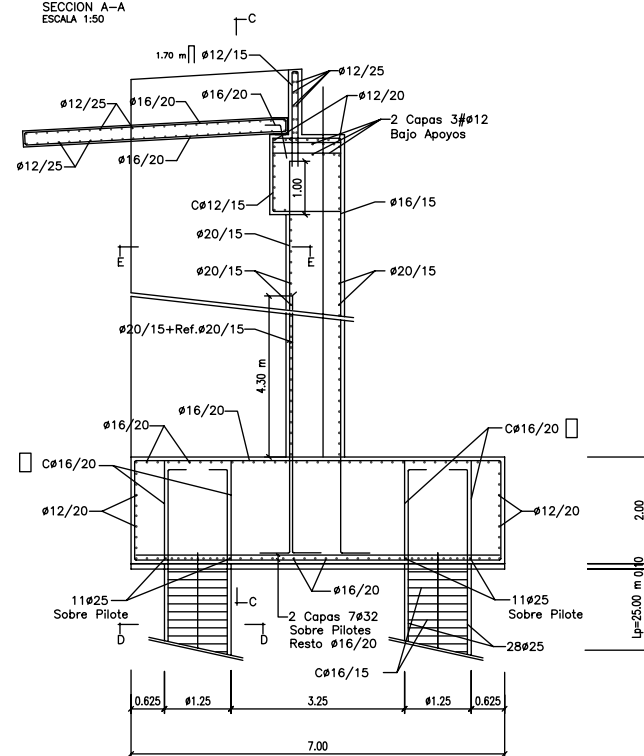
NUMÉRICA



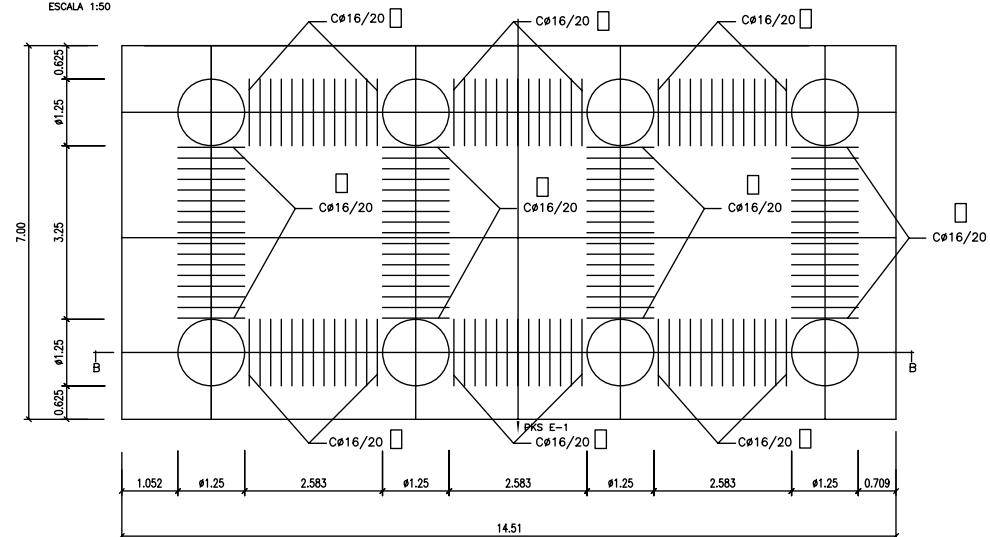
SECCION B-B  
ESCALA 1:50



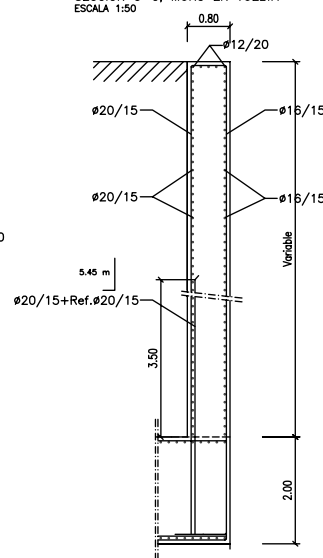
SECCION A-A  
ESCALA 1:50



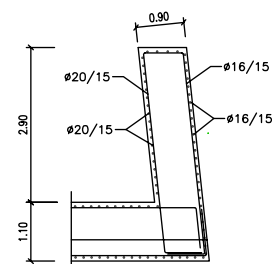
DETALLE PLANTA CERCOS  
ESCALA 1:50



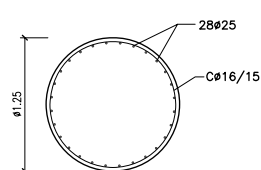
SECCION C-C, MURO EN VUELTA  
ESCALA 1:50



SECCION E-E, MURO EN VUELTA  
ESCALA 1:50



SECCION D-D, PILOTES  
ESCALA 1:50



| CUADRO DE CARACTERÍSTICAS EHE-99 |                    |                   |             |            |
|----------------------------------|--------------------|-------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION       | TIPO              | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCEPADO Y PILOTES | HA-30/B/20/IIa+Qn | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS            | HA-30/B/20/IIb    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA       | B 500 SD          | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA       |                   | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

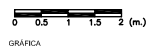
MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LINEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA ORIGINAL A1

1/50



FECHA:

JULIO  
2009

Nº DE PLANO:

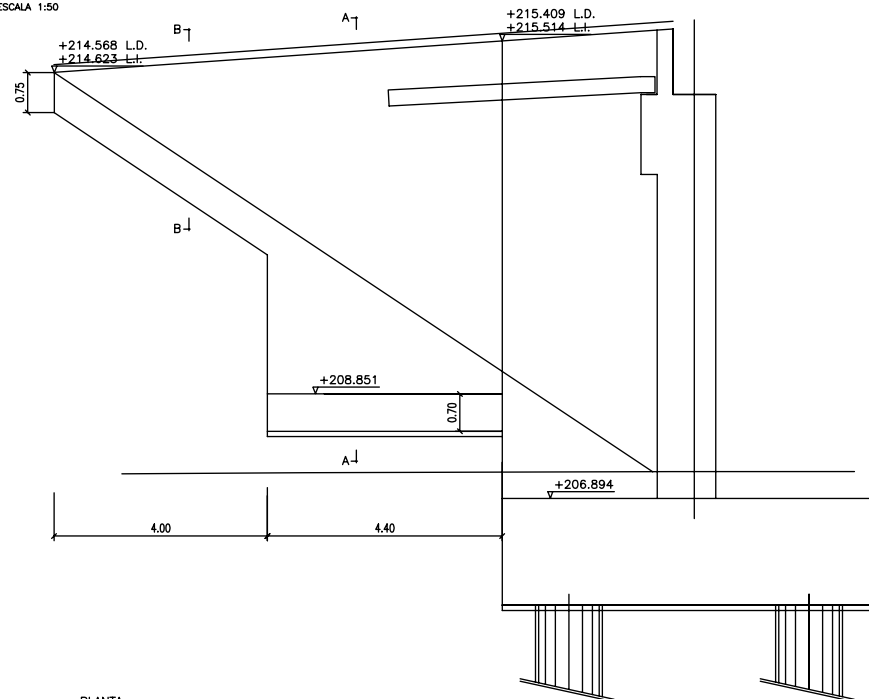
8,2

HOJA 11 de 18

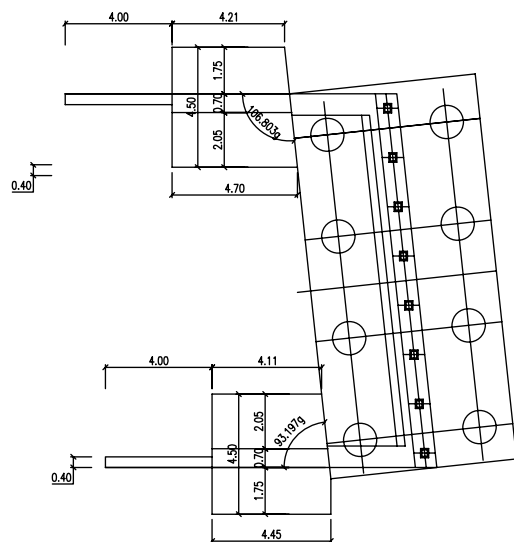
TÍTULO DEL PLANO: ESTRUCTURAS

PASO SUPERIOR P.S. -02  
ESTRIBO -2 ARMADURA

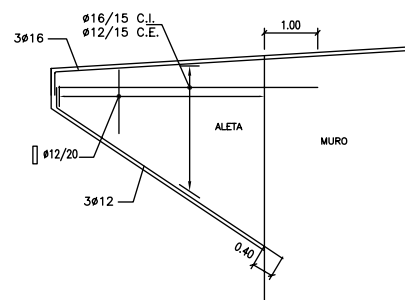
ALZADO  
ESCALA 1:50



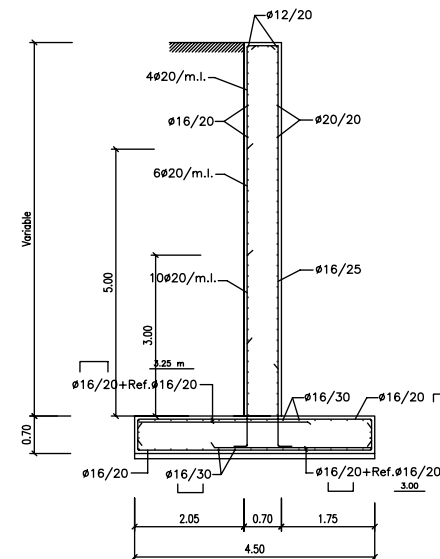
PLANTA  
ESCALA 1:100



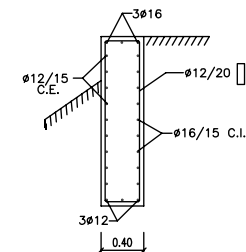
DETALLE ALETA-MURO  
ESCALA 1:50



SECCION A-A, ARMADURA  
ESCALA 1:50



SECCION B-B, ALETA  
ESCALA 1:25



NOTA: Se ha considerado una tensión  
admisible del terreno de 1.50 Kp/cm<sup>2</sup>.

| CUADRO DE CARACTERÍSTICAS EHE-99 |               |                   |             |            |
|----------------------------------|---------------|-------------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION  | TIPO              | CONTROL     | COEF. SEG. |
| HORMIGON                         | CIMENTACIONES | HA-30/B/20/lig+ob | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS       | HA-30/B/20/lig    | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA  | B 500 SD          | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA  |                   | INTENSO     | 1.35/1.50  |

Recubrimiento 5 cm Cimentaciones, 3.5 cm Alzados

TÍTULO:

MODIFICACIÓN Nº1 DEL PROYECTO CONSTRUCTIVO  
DE SUPRESIÓN DE LOS PASOS A NIVEL DE LAS LÍNEAS  
MADRID-BARCELONA, P.K. 327/514 Y ZARAGOZA-ALSASUA P.K. 15/717,  
EN CASETAS ZARAGOZA

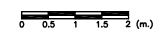
INGENIERO AUTOR DE LA MODIFICACIÓN Nº1

ELENA AYUSO MATEOS

ESCALA  
ORIGINAL A1

1/50

NÚMÉRICA



GRÁFICA

FECHA:

JULIO  
2009

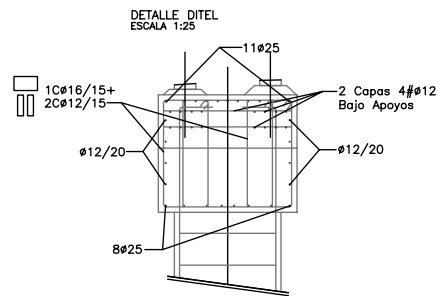
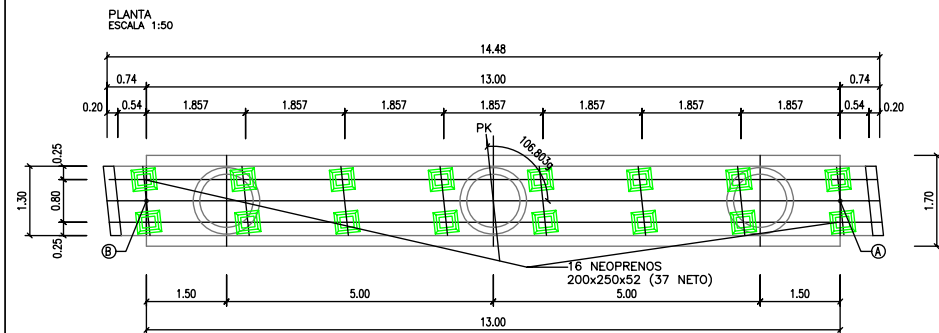
Nº DE PLANO:

8.2

HOJA 8 de 18

TÍTULO DEL PLANO: ESTRUCTURAS

PASO SUPERIOR P.S. - 02  
ESTRIBO -2 MURO Y ALETA



SECCION A-A  
ESCALA 1:50

Ver Detalle

11Ø25

Ø12/20

8Ø25

CØ12/30

B B

|      |
|------|
| AS   |
| H    |
| 8.40 |
| 7.90 |

25Ø20

10Ø25

20Ø12/25

Ø12/20

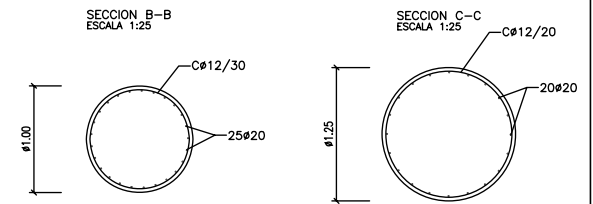
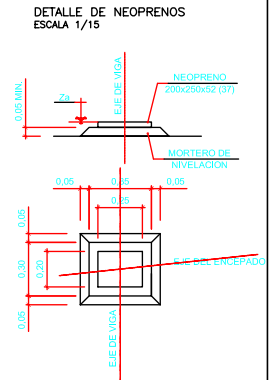
Ø12/20

10Ø25

C C

20Ø20

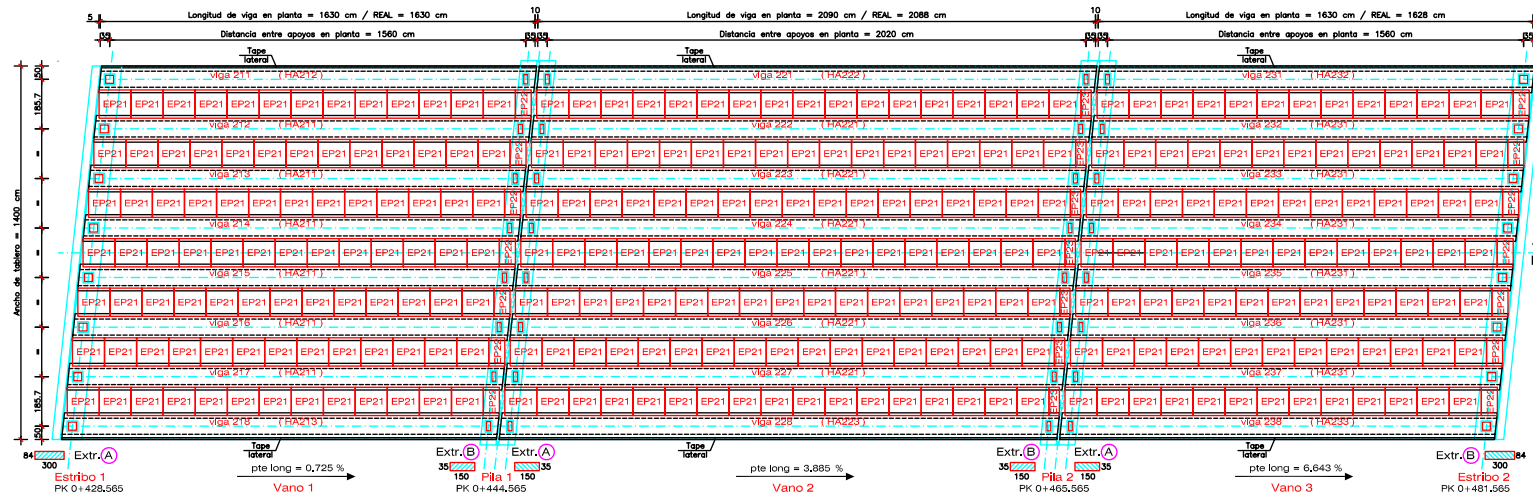
CØ12/20



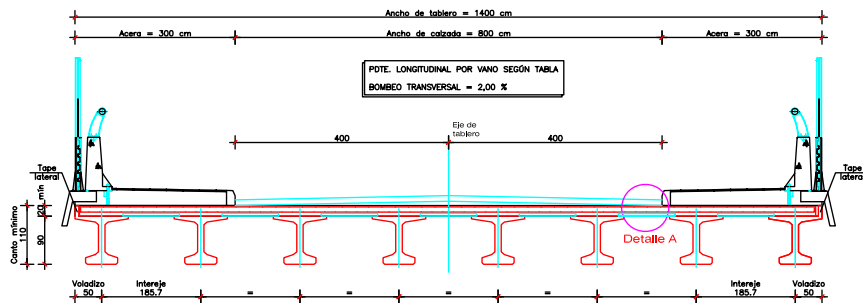
| REPLANTED PILAS |           |       |            |            |
|-----------------|-----------|-------|------------|------------|
| PILAS           | PK        | PUNTO | X          | Y          |
| P-1             | 0+444.565 | A     | 664351.136 | 4621382.86 |
|                 |           | B     | 664340.385 | 4621390.17 |
| P-2             | 0+465.565 | A     | 664361.027 | 4621401.38 |
|                 |           | B     | 664350.278 | 4621408.61 |

| CUADRO DE CARACTERISTICAS EHE-99 |                   |                 |             |            |
|----------------------------------|-------------------|-----------------|-------------|------------|
| ELEMENTO                         | LOCALIZACION      | TIPO            | CONTROL     | COEF. SEG. |
| HORMIGON                         | ENCEPADO Y PLOTES | HA-30/20/10a+0b | ESTADISTICO | 1.50       |
| HORMIGON                         | ALZADOS           | HA-30/8/20/1lb  | ESTADISTICO | 1.50       |
| PASIVAS                          | TODA LA OBRA      | B 500 SD        | NORMAL      | 1.15       |
| EJECUCION                        | TODA LA OBRA      |                 | INTENSO     | 1.35/1.50  |

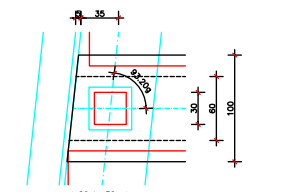
Recubrimiento 5 cm      Cimentaciones, 3.5 cm Alzados



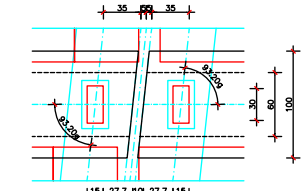
Planta  
Escala 1:100



Sección transversal  
Escala 1:50



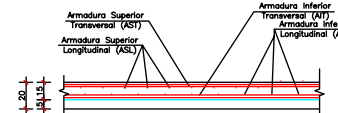
Detalle tipo de apoyos  
Planta zona estribos  
Escala 1:25



Detalle tipo de apoyos  
Planta zona pilas  
Escala 1:25

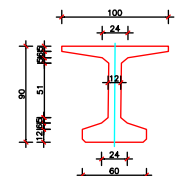
Detalle tipo de apoyos  
Alzado zona pila (pila 1)  
Escala 1:25

| Vano   | DIMENSIONES APOYOS |                | DIMENSIONES VIGAS |                 |                    |                  |                        |
|--------|--------------------|----------------|-------------------|-----------------|--------------------|------------------|------------------------|
|        | LADO ESTRIBO 1     | LADO ESTRIBO 2 | Entrega estr.1    | Entrega estr. 2 | Dist. entre apoyos | long. total REAL | Pendiente Longitudinal |
| vano 1 | 300x300x84         | 150x350x35     | 0.35              | 0.35            | 15.60              | 16.30            | 0.725 %                |
| vano 2 | 150x350x35         | 150x350x35     | 0.35              | 0.32            | 20.21              | 20.88            | 3.855 %                |
| vano 3 | 150x350x35         | 300x300x84     | 0.35              | 0.29            | 15.64              | 16.28            | 6.643 %                |



Detalle A: armado de losa  
Sin Escala

| ARMADO DE LOSA VANO 2 |                  |                   |  | ARMADO DE LOSA VANOS 1 y 3 |                  |                   |  |
|-----------------------|------------------|-------------------|--|----------------------------|------------------|-------------------|--|
| CAPA                  | ARM. TRANSVERSAL | ARM. LONGITUDINAL |  | CAPA                       | ARM. TRANSVERSAL | ARM. LONGITUDINAL |  |
| INF.                  | 8 Ø 16 p.m.l.    | 5 Ø 12 p.m.l.     |  | INF.                       | 7 Ø 16 p.m.l.    | 5 Ø 10 p.m.l.     |  |
| SUP.                  | 6 Ø 16 p.m.l.    | 4 Ø 10 p.m.l.     |  | SUP.                       | 5 Ø 16 p.m.l.    | 4 Ø 10 p.m.l.     |  |



Sección viga I90A100  
Escala 1:25

- NOTAS IMPORTANTES**
- La posición exacta de los apoyos de neopreno en planta y alzado, así como su posicionamiento en obra, son competencia del contratista, institución PRECON al suministro de los mismos.
  - La ubicación del mortero de nivelación se realizará de acuerdo al PG-3, artículo 602.3. Sus dimensiones en planta deberán ser en el menos 5 cm al contorno exterior del apoyo de neopreno.
  - El cliente verificará que la altura del mortero de nivelación sea la adecuada para que la cresta del dintel no roce con la base inferior de la viga en los vanos 2 y 3.
  - La armadura longitudinal en cada vano será paralela al eje de las vigas, y la transversal, perpendicular al mismo.
  - Los escotes de las armaduras se realizarán de acuerdo a la norma EHE, alternando los ejes de dichos escotes.
  - Se dispondrá en los extremos de los carriles Ø8 o 20 cm, paralelos a la armadura longitudinal de 1,00 m. de longitud.
  - Las vigas irán marcadas de fábrica en sus extremos (Extr. A y Extr. B) según planta, para un correcto posicionamiento en obra.

**Responsabilidades de PRECON**

PRECON se responsabiliza totalmente de los elementos prefabricados que suministra e monta, pero no asume responsabilidad alguna sobre partes de la obra que no corresponden a su actividad, tales como: cimentación, muros, pilas, bóvedas, bóvedas, pilares, etc., así como facilidades distribuciones, dimensiones y armados, ya que estos se dan a título informativo y quedan siempre sometidos al mejor criterio de la Dirección Facultativa de la obra.

En caso de suministrar productos no diseñados por PRECON, nuestra responsabilidad se limitará a la correcta fabricación, suministro y, en su caso, montaje de los mismos, pero no a su diseño ni comportamiento estructural, así como se realicen modificaciones en dicho diseño, convenidas con el cliente.

| Resumen de materiales |     |                             |                    |           |
|-----------------------|-----|-----------------------------|--------------------|-----------|
| Marca                 | Uds | Descripción                 | Medidas (m)        | Peso (kg) |
| HA211                 | 6   | Viga doble T I90A100        | 16.30              | 10750     |
| HA212                 | 1   | Viga doble T I90A100 + Tapa | 16.30              | 11325     |
| HA213                 | 1   | Viga doble T I90A100 + Tapa | 16.30              | 11325     |
| HA221                 | 6   | Viga doble T I90A100        | 20.88              | 14050     |
| HA222                 | 1   | Viga doble T I90A100 + Tapa | 20.88              | 14050     |
| HA223                 | 1   | Viga doble T I90A100 + Tapa | 20.88              | 14050     |
| HA321                 | 6   | Viga doble T I90A100        | 16.28              | 10750     |
| HA322                 | 1   | Viga doble T I90A100 + Tapa | 16.28              | 11325     |
| HA323                 | 1   | Viga doble T I90A100 + Tapa | 16.28              | 11325     |
| EP21                  | 301 | Placa armada                | 1.06 x 1.20 x 0.05 | 160       |
| EP22                  | 14  | Placa armada                | 1.06 x 0.60 x 0.05 | 80        |
| EP23                  | 7   | Placa armada                | 1.06 x 0.38 x 0.05 | 55        |
| NE021                 | 16  | Apoyo de neopreno           | 300x300x84         | ----      |
| NE022                 | 32  | Apoyo de neopreno           | 150x350x35         | ----      |

La aceptación de este plano implica la del cálculo correspondiente presentado por PRECON.

**CONFORME EL CLIENTE**

FECHA: \_\_\_\_\_ FIRMA Y SELLO: \_\_\_\_\_

**Normativa aplicada**

Cargas: IAP-98  
Hormigón: EHE

**INDICE**

| FECHA    | DESCRIPCION       | DIBUJADO | COMPROBADO |
|----------|-------------------|----------|------------|
| 18/09/09 | 18/09/09 S. Burgo |          |            |

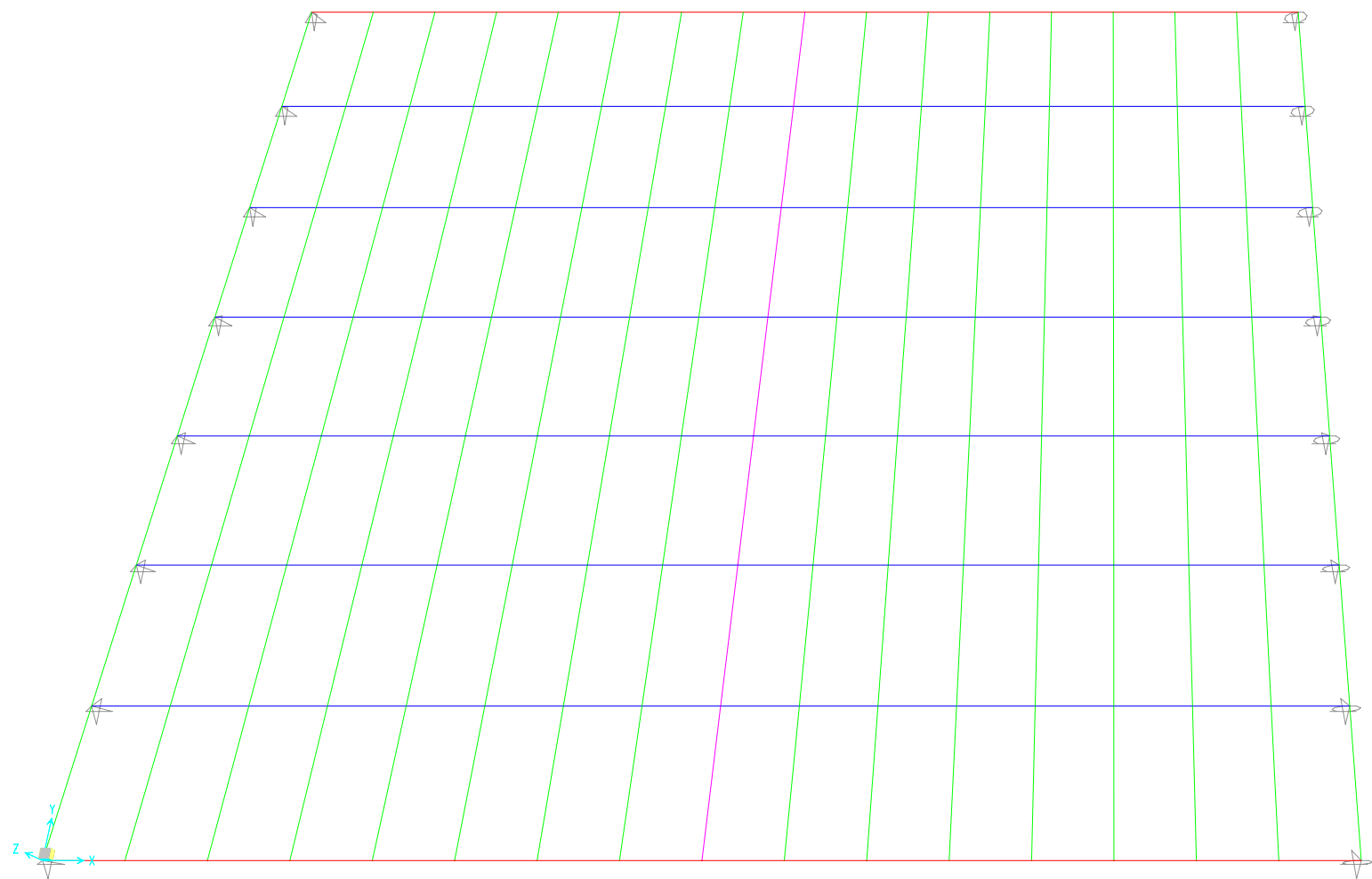
**CLIENTE**: U.T.E. Casetas  
**OBRA**: Supresión Paso Nivel en Casetas  
**ESCALA**: 1:100

**PRECON**

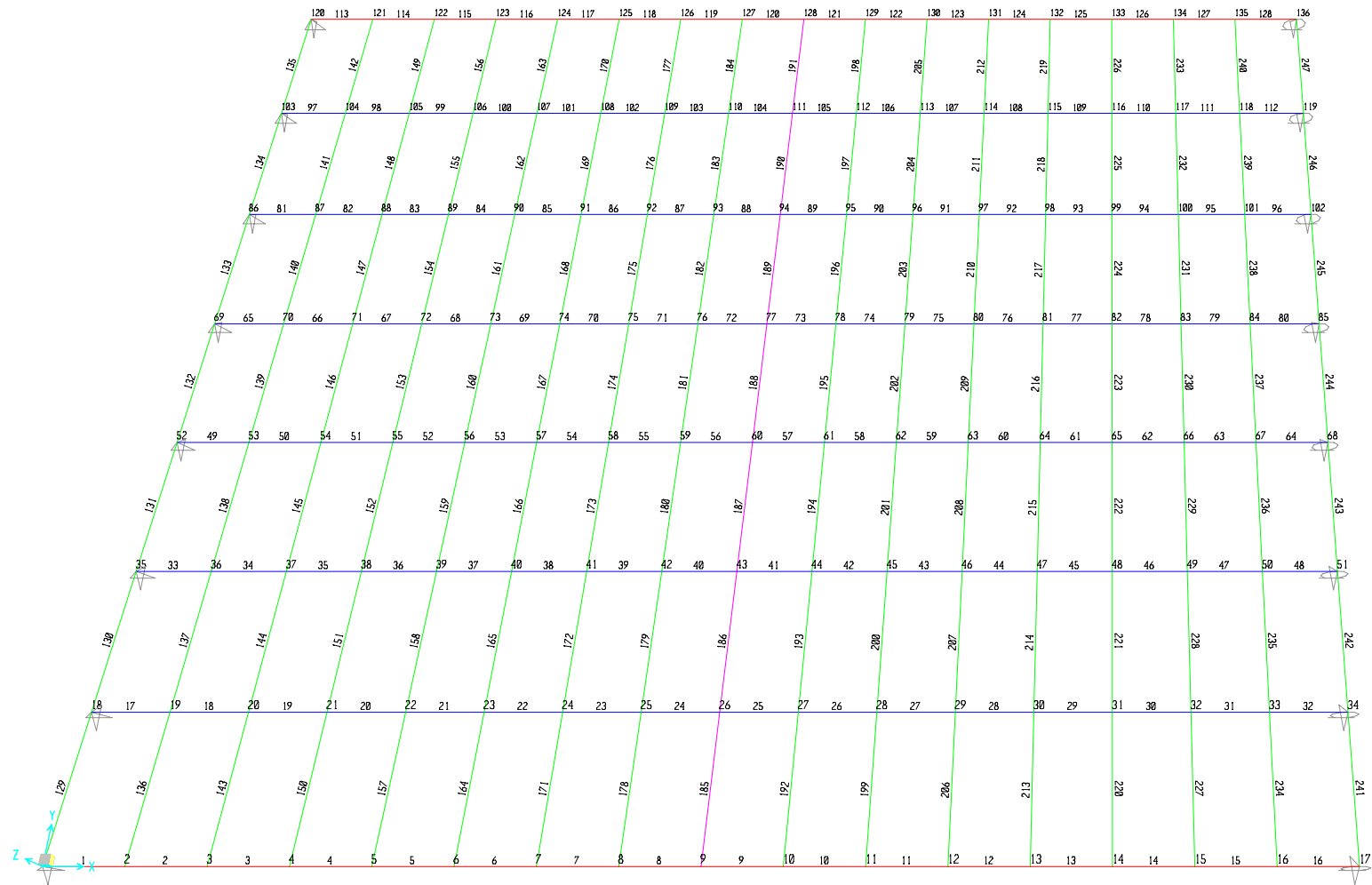
**ESTUDIOS**

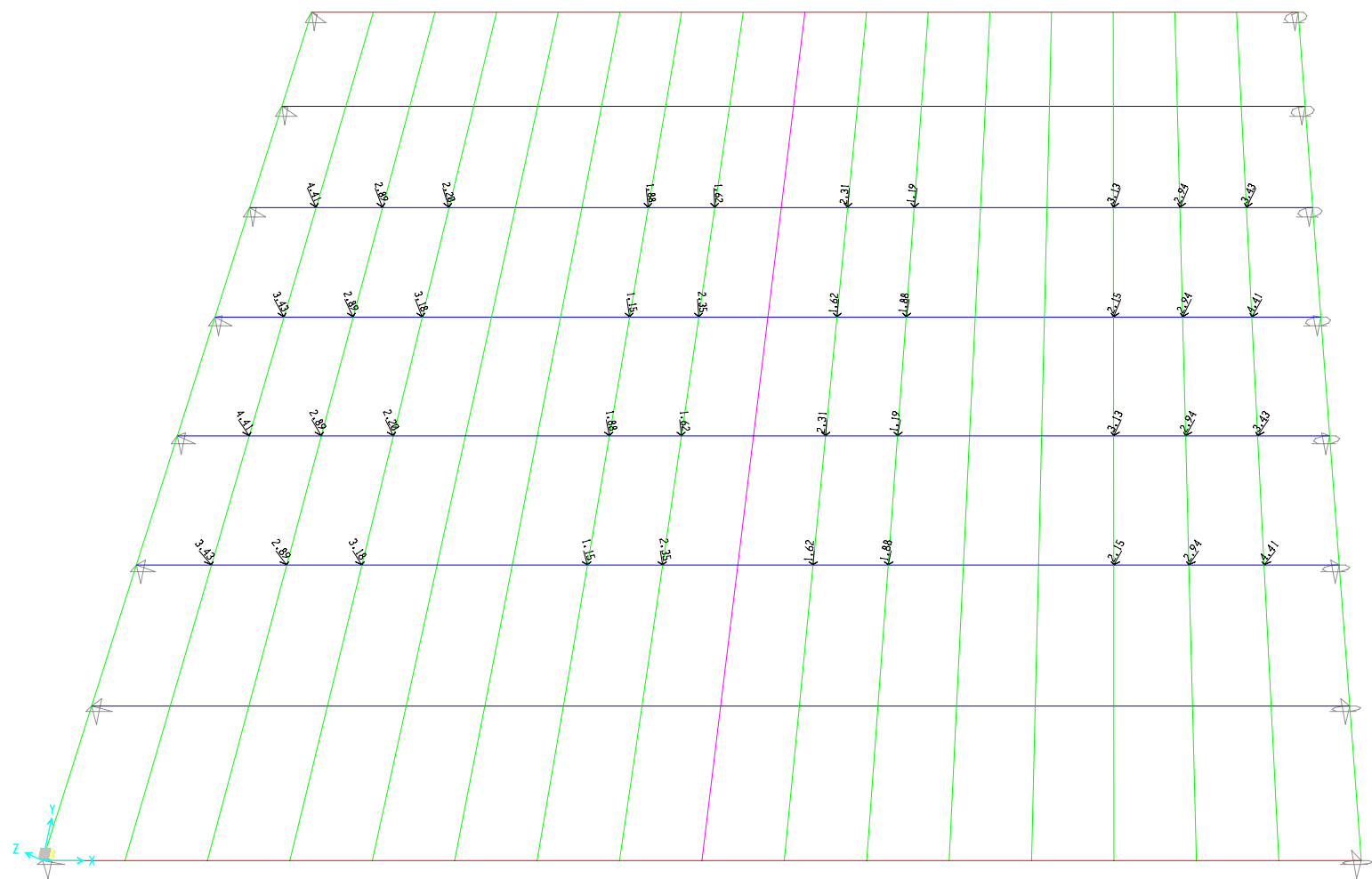
**ESTUDIO**: 30080370-B  
**PEDIDO**: 30080370  
**PLANO**: 2RV  
**HOJA**: 1 de 1

## **ANEJO II. – CÁLCULOS**

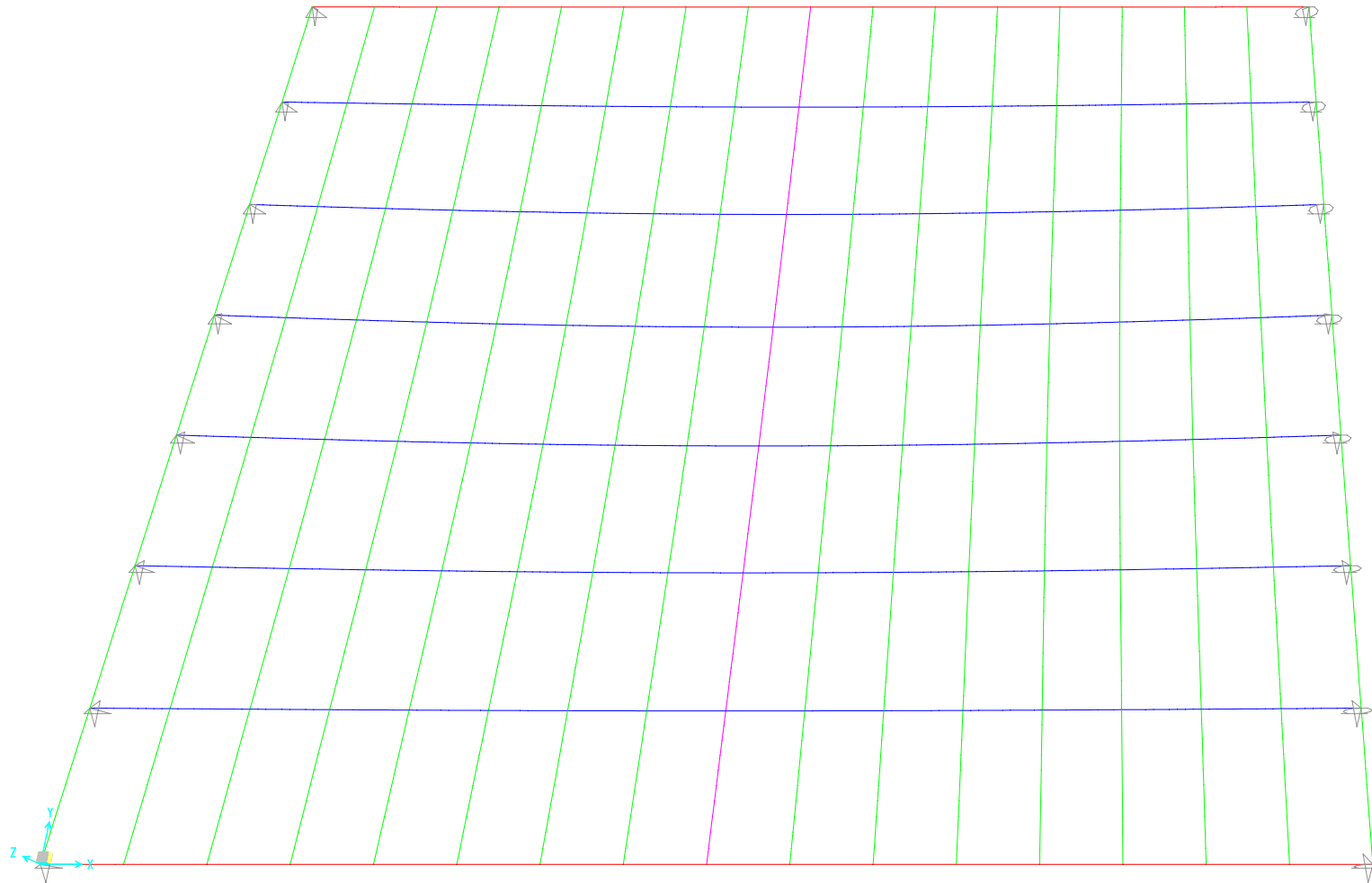


# SAP2000

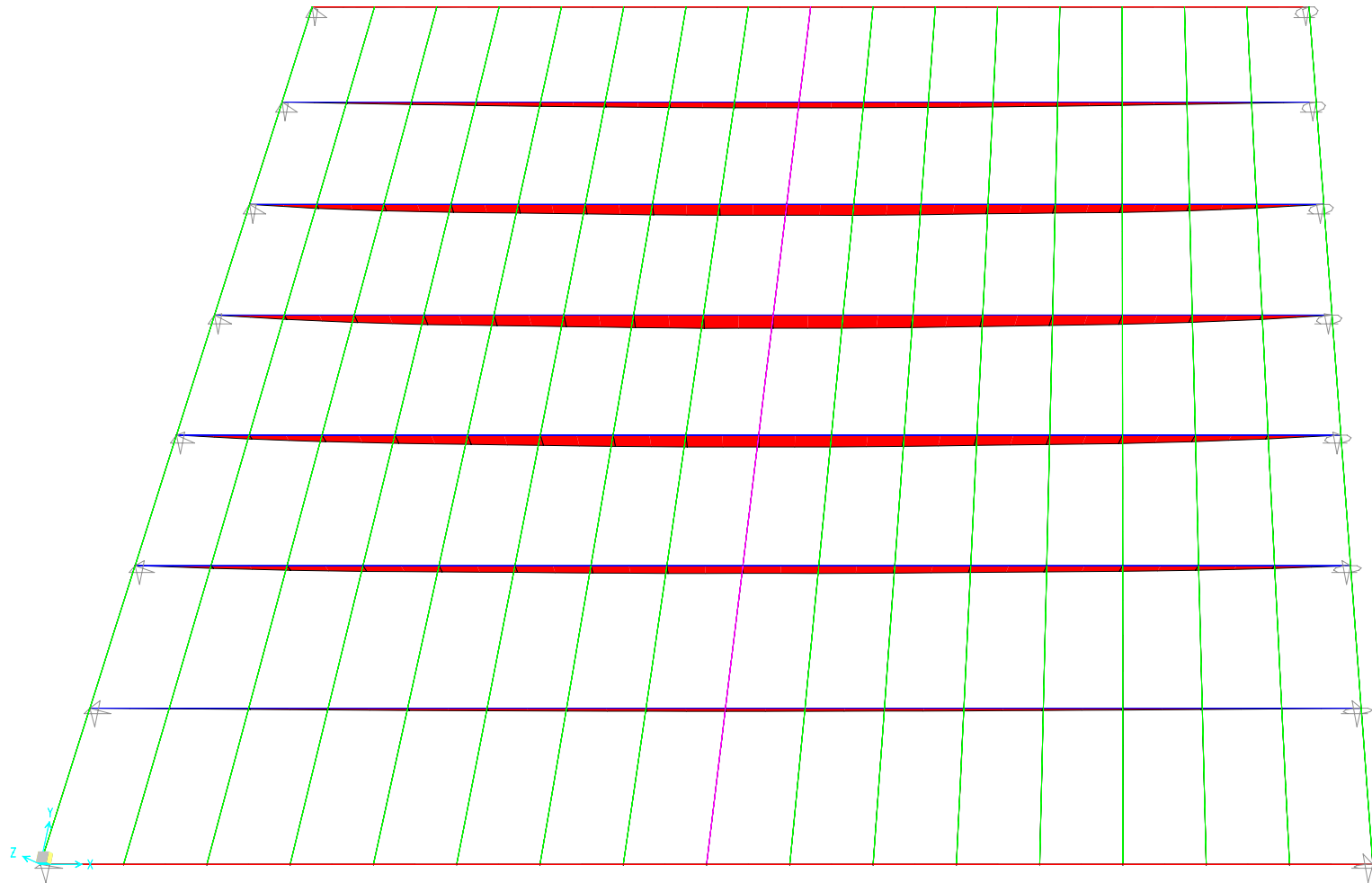


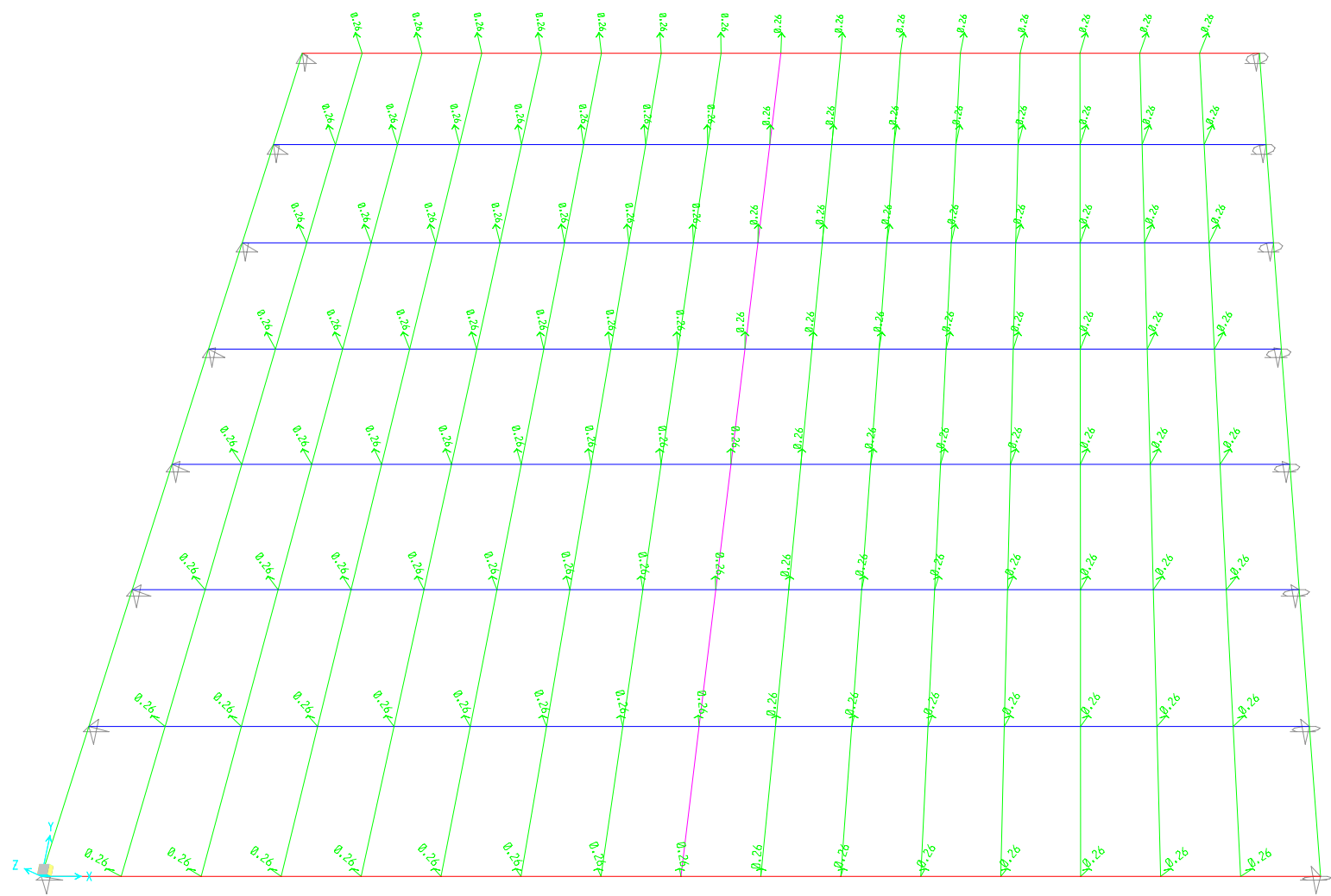


# SAP2000

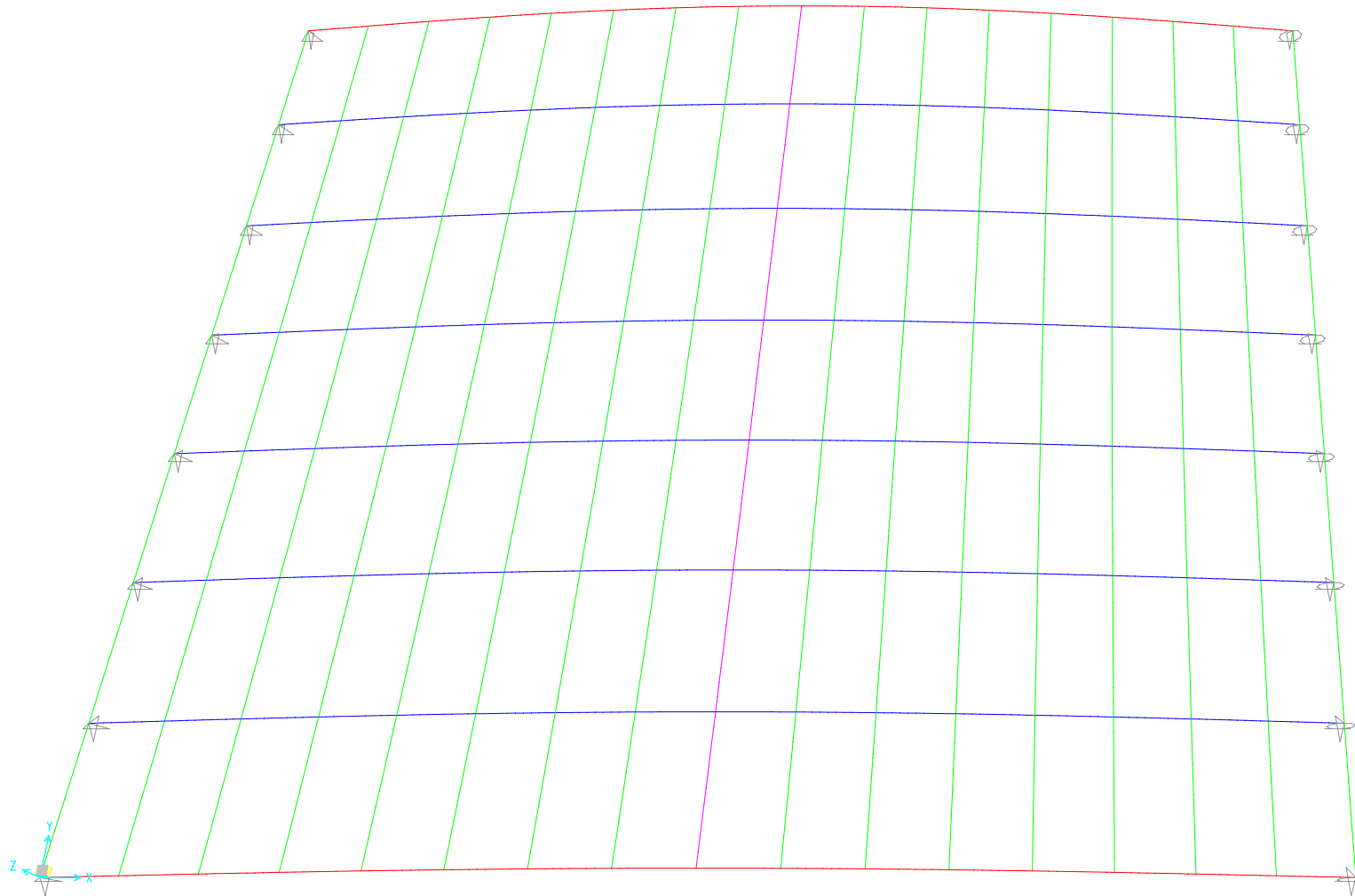


# SAP2000

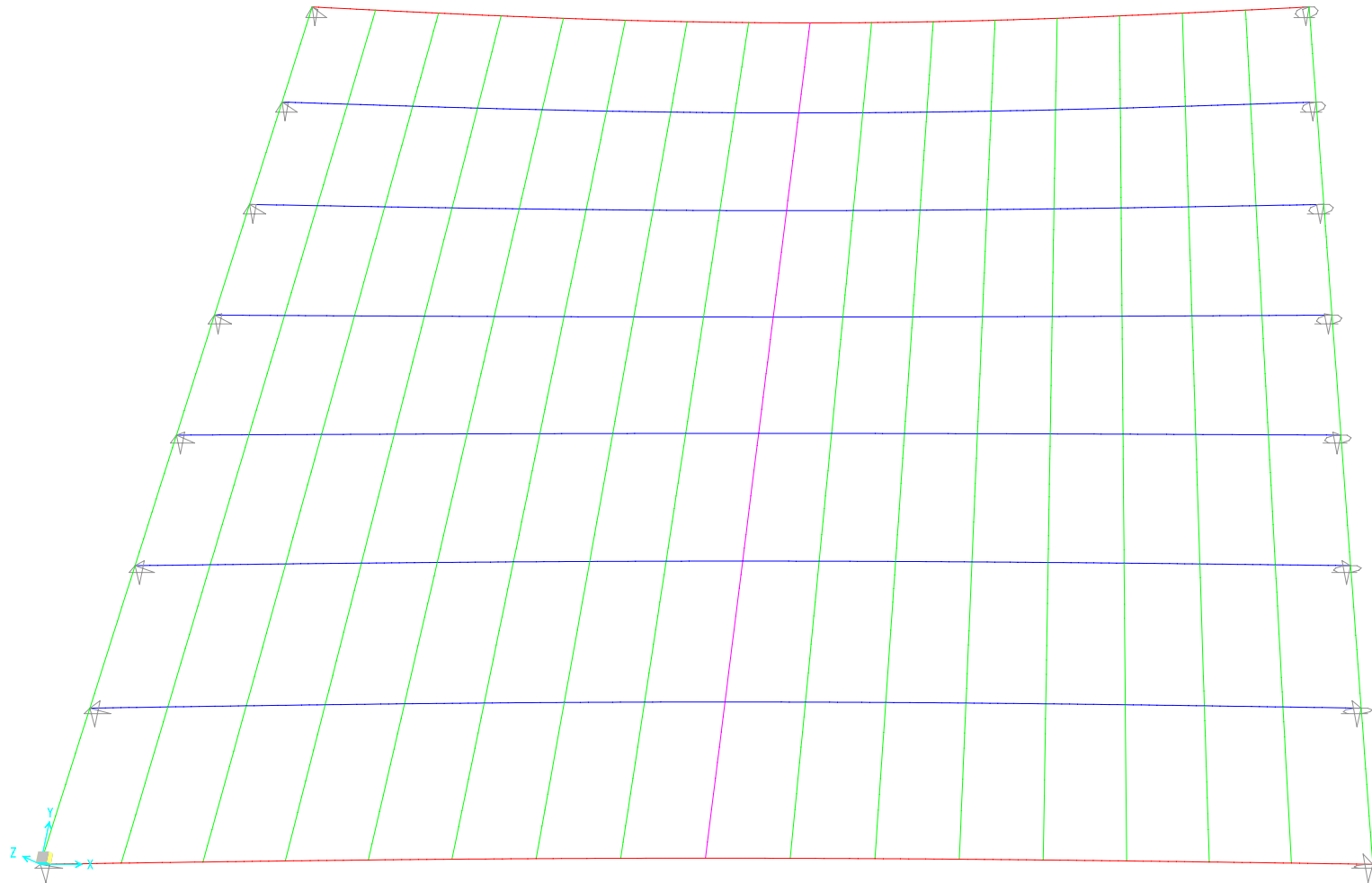




# SAP2000



# SAP2000



# SAP2000

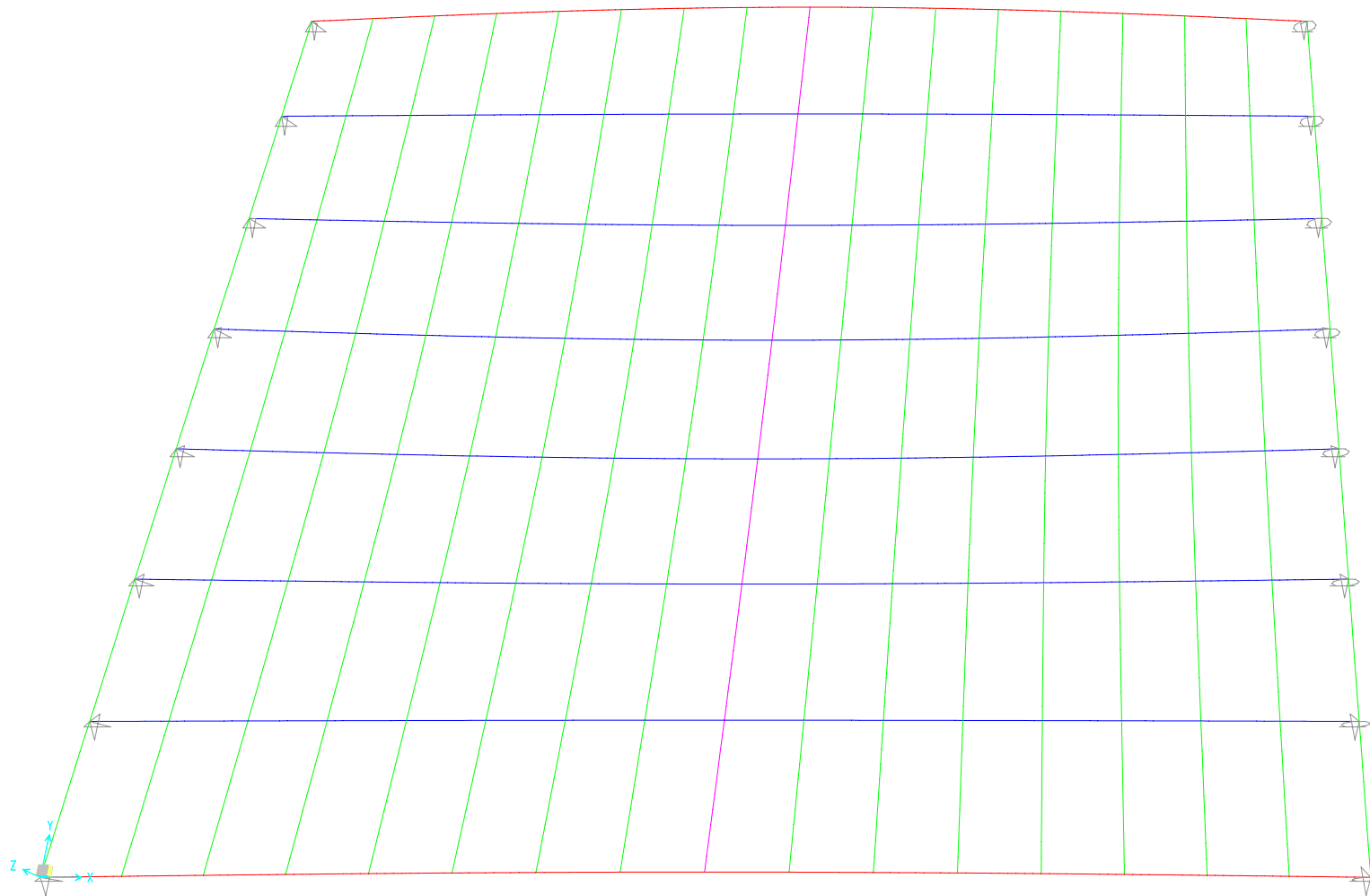


Table: Case - Modal 1 - General

| Table: Case - Modal 1 - General |          |             |             |            |             |            |           |
|---------------------------------|----------|-------------|-------------|------------|-------------|------------|-----------|
| Case                            | ModeType | MaxNumModes | MinNumModes | EigenShift | EigenCutoff | EigenTol   | AutoShift |
|                                 |          |             |             | Cyc/sec    | Cyc/sec     |            |           |
| MODAL                           | Eigen    | 12          | 1           | 0.0000E+00 | 0.0000E+00  | 1.0000E-09 | Yes       |

Table: Case - Static 1 - Load Assignments

| Table: Case - Static 1 - Load Assignments |              |          |          |
|-------------------------------------------|--------------|----------|----------|
| Case                                      | LoadType     | LoadName | LoadSF   |
| DEAD                                      | Load pattern | DEAD     | 1.000000 |
| 4C26TB                                    | Load pattern | 4C26TB   | 1.000000 |

Table: Connectivity - Frame, Part 1 of 2

| Table: Connectivity - Frame, Part 1 of 2 |        |        |          |             |                |                |                |
|------------------------------------------|--------|--------|----------|-------------|----------------|----------------|----------------|
| Frame                                    | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
| 1                                        | 1      | 2      | No       | 0.97485     | 0.48743        | 0.00000        | 3.541E-16      |
| 2                                        | 2      | 3      | No       | 0.97485     | 1.46228        | 0.00000        | 7.082E-16      |
| 3                                        | 3      | 4      | No       | 0.97485     | 2.43714        | 0.00000        | 7.082E-16      |
| 4                                        | 4      | 5      | No       | 0.97485     | 3.41199        | 0.00000        | 7.082E-16      |
| 5                                        | 5      | 6      | No       | 0.97485     | 4.38685        | 0.00000        | 7.082E-16      |
| 6                                        | 6      | 7      | No       | 0.97485     | 5.36170        | 0.00000        | 7.082E-16      |
| 7                                        | 7      | 8      | No       | 0.97485     | 6.33655        | 0.00000        | 7.082E-16      |
| 8                                        | 8      | 9      | No       | 0.97485     | 7.31141        | 0.00000        | 3.541E-16      |
| 9                                        | 9      | 10     | No       | 0.97485     | 8.28626        | 0.00000        | 3.541E-16      |
| 10                                       | 10     | 11     | No       | 0.97485     | 9.26112        | 0.00000        | 7.082E-16      |
| 11                                       | 11     | 12     | No       | 0.97485     | 10.23597       | 0.00000        | 7.082E-16      |
| 12                                       | 12     | 13     | No       | 0.97485     | 11.21083       | 0.00000        | 7.082E-16      |
| 13                                       | 13     | 14     | No       | 0.97485     | 12.18568       | 0.00000        | 7.082E-16      |
| 14                                       | 14     | 15     | No       | 0.97485     | 13.16054       | 0.00000        | 7.082E-16      |
| 15                                       | 15     | 16     | No       | 0.97485     | 14.13539       | 0.00000        | 7.082E-16      |
| 16                                       | 16     | 17     | No       | 0.97485     | 15.11025       | 0.00000        | 3.541E-16      |
| 17                                       | 18     | 19     | No       | 0.97485     | 0.68664        | 1.85716        | -8.096E-16     |
| 18                                       | 19     | 20     | No       | 0.97485     | 1.66150        | 1.85716        | -4.555E-16     |
| 19                                       | 20     | 21     | No       | 0.97485     | 2.63635        | 1.85716        | -4.555E-16     |
| 20                                       | 21     | 22     | No       | 0.97485     | 3.61121        | 1.85716        | -4.555E-16     |
| 21                                       | 22     | 23     | No       | 0.97485     | 4.58606        | 1.85716        | -4.555E-16     |
| 22                                       | 23     | 24     | No       | 0.97485     | 5.56091        | 1.85716        | -4.555E-16     |
| 23                                       | 24     | 25     | No       | 0.97485     | 6.53577        | 1.85716        | -4.555E-16     |
| 24                                       | 25     | 26     | No       | 0.97485     | 7.51062        | 1.85716        | -8.096E-16     |
| 25                                       | 26     | 27     | No       | 0.97485     | 8.48548        | 1.85716        | -8.096E-16     |
| 26                                       | 27     | 28     | No       | 0.97485     | 9.46033        | 1.85716        | -4.555E-16     |
| 27                                       | 28     | 29     | No       | 0.97485     | 10.43519       | 1.85716        | -4.555E-16     |
| 28                                       | 29     | 30     | No       | 0.97485     | 11.41004       | 1.85716        | -4.555E-16     |
| 29                                       | 30     | 31     | No       | 0.97485     | 12.38490       | 1.85716        | -4.555E-16     |
| 30                                       | 31     | 32     | No       | 0.97485     | 13.35975       | 1.85716        | -4.555E-16     |
| 31                                       | 32     | 33     | No       | 0.97485     | 14.33461       | 1.85716        | -4.555E-16     |
| 32                                       | 33     | 34     | No       | 0.97485     | 15.30946       | 1.85716        | -8.096E-16     |
| 33                                       | 35     | 36     | No       | 0.97485     | 0.88586        | 3.71432        | -5.769E-16     |
| 34                                       | 36     | 37     | No       | 0.97485     | 1.86071        | 3.71432        | -2.228E-16     |
| 35                                       | 37     | 38     | No       | 0.97485     | 2.83557        | 3.71432        | -2.228E-16     |
| 36                                       | 38     | 39     | No       | 0.97485     | 3.81042        | 3.71432        | -2.228E-16     |
| 37                                       | 39     | 40     | No       | 0.97485     | 4.78527        | 3.71432        | -2.228E-16     |

| Table: Connectivity - Frame, Part 1 of 2 |        |        |          |             |                |                |                |
|------------------------------------------|--------|--------|----------|-------------|----------------|----------------|----------------|
| Frame                                    | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
| 38                                       | 40     | 41     | No       | 0.97485     | 5.76013        | 3.71432        | -2.228E-16     |
| 39                                       | 41     | 42     | No       | 0.97485     | 6.73498        | 3.71432        | -2.228E-16     |
| 40                                       | 42     | 43     | No       | 0.97485     | 7.70984        | 3.71432        | -5.769E-16     |
| 41                                       | 43     | 44     | No       | 0.97485     | 8.68469        | 3.71432        | -5.769E-16     |
| 42                                       | 44     | 45     | No       | 0.97485     | 9.65955        | 3.71432        | -2.228E-16     |
| 43                                       | 45     | 46     | No       | 0.97485     | 10.63440       | 3.71432        | -2.228E-16     |
| 44                                       | 46     | 47     | No       | 0.97485     | 11.60926       | 3.71432        | -2.228E-16     |
| 45                                       | 47     | 48     | No       | 0.97485     | 12.58411       | 3.71432        | -2.228E-16     |
| 46                                       | 48     | 49     | No       | 0.97485     | 13.55897       | 3.71432        | -2.228E-16     |
| 47                                       | 49     | 50     | No       | 0.97485     | 14.53382       | 3.71432        | -2.228E-16     |
| 48                                       | 50     | 51     | No       | 0.97485     | 15.50867       | 3.71432        | -5.769E-16     |
| 49                                       | 52     | 53     | No       | 0.97485     | 1.08507        | 5.57148        | -3.443E-16     |
| 50                                       | 53     | 54     | No       | 0.97485     | 2.05993        | 5.57148        | 9.857E-18      |
| 51                                       | 54     | 55     | No       | 0.97485     | 3.03478        | 5.57148        | 9.857E-18      |
| 52                                       | 55     | 56     | No       | 0.97485     | 4.00963        | 5.57148        | 9.857E-18      |
| 53                                       | 56     | 57     | No       | 0.97485     | 4.98449        | 5.57148        | 9.857E-18      |
| 54                                       | 57     | 58     | No       | 0.97485     | 5.95934        | 5.57148        | 9.857E-18      |
| 55                                       | 58     | 59     | No       | 0.97485     | 6.93420        | 5.57148        | 9.857E-18      |
| 56                                       | 59     | 60     | No       | 0.97485     | 7.90905        | 5.57148        | -3.443E-16     |
| 57                                       | 60     | 61     | No       | 0.97485     | 8.88391        | 5.57148        | -3.443E-16     |
| 58                                       | 61     | 62     | No       | 0.97485     | 9.85876        | 5.57148        | 9.857E-18      |
| 59                                       | 62     | 63     | No       | 0.97485     | 10.83362       | 5.57148        | 9.857E-18      |
| 60                                       | 63     | 64     | No       | 0.97485     | 11.80847       | 5.57148        | 9.857E-18      |
| 61                                       | 64     | 65     | No       | 0.97485     | 12.78333       | 5.57148        | 9.857E-18      |
| 62                                       | 65     | 66     | No       | 0.97485     | 13.75818       | 5.57148        | 9.857E-18      |
| 63                                       | 66     | 67     | No       | 0.97485     | 14.73303       | 5.57148        | 9.857E-18      |
| 64                                       | 67     | 68     | No       | 0.97485     | 15.70789       | 5.57148        | -3.443E-16     |
| 65                                       | 69     | 70     | No       | 0.97485     | 1.28429        | 7.42864        | -1.116E-16     |
| 66                                       | 70     | 71     | No       | 0.97485     | 2.25914        | 7.42864        | 2.425E-16      |
| 67                                       | 71     | 72     | No       | 0.97485     | 3.23399        | 7.42864        | 2.425E-16      |
| 68                                       | 72     | 73     | No       | 0.97485     | 4.20885        | 7.42864        | 2.425E-16      |
| 69                                       | 73     | 74     | No       | 0.97485     | 5.18370        | 7.42864        | 2.425E-16      |
| 70                                       | 74     | 75     | No       | 0.97485     | 6.15856        | 7.42864        | 2.425E-16      |
| 71                                       | 75     | 76     | No       | 0.97485     | 7.13341        | 7.42864        | 2.425E-16      |
| 72                                       | 76     | 77     | No       | 0.97485     | 8.10827        | 7.42864        | -1.116E-16     |
| 73                                       | 77     | 78     | No       | 0.97485     | 9.08312        | 7.42864        | -1.116E-16     |
| 74                                       | 78     | 79     | No       | 0.97485     | 10.05798       | 7.42864        | 2.425E-16      |
| 75                                       | 79     | 80     | No       | 0.97485     | 11.03283       | 7.42864        | 2.425E-16      |
| 76                                       | 80     | 81     | No       | 0.97485     | 12.00769       | 7.42864        | 2.425E-16      |
| 77                                       | 81     | 82     | No       | 0.97485     | 12.98254       | 7.42864        | 2.425E-16      |
| 78                                       | 82     | 83     | No       | 0.97485     | 13.95739       | 7.42864        | 2.425E-16      |
| 79                                       | 83     | 84     | No       | 0.97485     | 14.93225       | 7.42864        | 2.425E-16      |
| 80                                       | 84     | 85     | No       | 0.97485     | 15.90710       | 7.42864        | -1.116E-16     |
| 81                                       | 86     | 87     | No       | 0.97485     | 1.48350        | 9.28580        | 1.211E-16      |
| 82                                       | 87     | 88     | No       | 0.97485     | 2.45835        | 9.28580        | 4.752E-16      |
| 83                                       | 88     | 89     | No       | 0.97485     | 3.43321        | 9.28580        | 4.752E-16      |
| 84                                       | 89     | 90     | No       | 0.97485     | 4.40806        | 9.28580        | 4.752E-16      |
| 85                                       | 90     | 91     | No       | 0.97485     | 5.38292        | 9.28580        | 4.752E-16      |
| 86                                       | 91     | 92     | No       | 0.97485     | 6.35777        | 9.28580        | 4.752E-16      |
| 87                                       | 92     | 93     | No       | 0.97485     | 7.33263        | 9.28580        | 4.752E-16      |
| 88                                       | 93     | 94     | No       | 0.97485     | 8.30748        | 9.28580        | 1.211E-16      |
| 89                                       | 94     | 95     | No       | 0.97485     | 9.28234        | 9.28580        | 1.211E-16      |
| 90                                       | 95     | 96     | No       | 0.97485     | 10.25719       | 9.28580        | 4.752E-16      |
| 91                                       | 96     | 97     | No       | 0.97485     | 11.23205       | 9.28580        | 4.752E-16      |
| 92                                       | 97     | 98     | No       | 0.97485     | 12.20690       | 9.28580        | 4.752E-16      |
| 93                                       | 98     | 99     | No       | 0.97485     | 13.18175       | 9.28580        | 4.752E-16      |
| 94                                       | 99     | 100    | No       | 0.97485     | 14.15661       | 9.28580        | 4.752E-16      |
| 95                                       | 100    | 101    | No       | 0.97485     | 15.13146       | 9.28580        | 4.752E-16      |
| 96                                       | 101    | 102    | No       | 0.97485     | 16.10632       | 9.28580        | 1.211E-16      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 97    | 103    | 104    | No       | 0.97485     | 1.68271        | 11.14296       | 3.538E-16      |
| 98    | 104    | 105    | No       | 0.97485     | 2.65757        | 11.14296       | 7.079E-16      |
| 99    | 105    | 106    | No       | 0.97485     | 3.63242        | 11.14296       | 7.079E-16      |
| 100   | 106    | 107    | No       | 0.97485     | 4.60728        | 11.14296       | 7.079E-16      |
| 101   | 107    | 108    | No       | 0.97485     | 5.58213        | 11.14296       | 7.079E-16      |
| 102   | 108    | 109    | No       | 0.97485     | 6.55699        | 11.14296       | 7.079E-16      |
| 103   | 109    | 110    | No       | 0.97485     | 7.53184        | 11.14296       | 7.079E-16      |
| 104   | 110    | 111    | No       | 0.97485     | 8.50670        | 11.14296       | 3.538E-16      |
| 105   | 111    | 112    | No       | 0.97485     | 9.48155        | 11.14296       | 3.538E-16      |
| 106   | 112    | 113    | No       | 0.97485     | 10.45641       | 11.14296       | 7.079E-16      |
| 107   | 113    | 114    | No       | 0.97485     | 11.43126       | 11.14296       | 7.079E-16      |
| 108   | 114    | 115    | No       | 0.97485     | 12.40611       | 11.14296       | 7.079E-16      |
| 109   | 115    | 116    | No       | 0.97485     | 13.38097       | 11.14296       | 7.079E-16      |
| 110   | 116    | 117    | No       | 0.97485     | 14.35582       | 11.14296       | 7.079E-16      |
| 111   | 117    | 118    | No       | 0.97485     | 15.33068       | 11.14296       | 7.079E-16      |
| 112   | 118    | 119    | No       | 0.97485     | 16.30553       | 11.14296       | 3.538E-16      |
| 113   | 120    | 121    | No       | 0.97485     | 1.88193        | 13.00012       | 5.864E-16      |
| 114   | 121    | 122    | No       | 0.97485     | 2.85678        | 13.00012       | 9.406E-16      |
| 115   | 122    | 123    | No       | 0.97485     | 3.83164        | 13.00012       | 9.406E-16      |
| 116   | 123    | 124    | No       | 0.97485     | 4.80649        | 13.00012       | 9.406E-16      |
| 117   | 124    | 125    | No       | 0.97485     | 5.78135        | 13.00012       | 9.406E-16      |
| 118   | 125    | 126    | No       | 0.97485     | 6.75620        | 13.00012       | 9.406E-16      |
| 119   | 126    | 127    | No       | 0.97485     | 7.73106        | 13.00012       | 9.406E-16      |
| 120   | 127    | 128    | No       | 0.97485     | 8.70591        | 13.00012       | 5.864E-16      |
| 121   | 128    | 129    | No       | 0.97485     | 9.68077        | 13.00012       | 5.864E-16      |
| 122   | 129    | 130    | No       | 0.97485     | 10.65562       | 13.00012       | 9.406E-16      |
| 123   | 130    | 131    | No       | 0.97485     | 11.63047       | 13.00012       | 9.406E-16      |
| 124   | 131    | 132    | No       | 0.97485     | 12.60533       | 13.00012       | 9.406E-16      |
| 125   | 132    | 133    | No       | 0.97485     | 13.58018       | 13.00012       | 9.406E-16      |
| 126   | 133    | 134    | No       | 0.97485     | 14.55504       | 13.00012       | 9.406E-16      |
| 127   | 134    | 135    | No       | 0.97485     | 15.52989       | 13.00012       | 9.406E-16      |
| 128   | 135    | 136    | No       | 0.97485     | 16.50475       | 13.00012       | 5.864E-16      |
| 129   | 1      | 18     | No       | 1.86781     | 0.09961        | 0.92858        | -5.819E-16     |
| 130   | 18     | 35     | No       | 1.86781     | 0.29882        | 2.78574        | -1.047E-15     |
| 131   | 35     | 52     | No       | 1.86781     | 0.49804        | 4.64290        | -8.147E-16     |
| 132   | 52     | 69     | No       | 1.86781     | 0.69725        | 6.50006        | -5.820E-16     |
| 133   | 69     | 86     | No       | 1.86781     | 0.89647        | 8.35722        | -3.494E-16     |
| 134   | 86     | 103    | No       | 1.86781     | 1.09568        | 10.21438       | -1.167E-16     |
| 135   | 103    | 120    | No       | 1.86781     | 1.29489        | 12.07154       | 1.160E-16      |
| 136   | 2      | 19     | No       | 1.86781     | 1.07446        | 0.92858        | 1.264E-16      |
| 137   | 19     | 36     | No       | 1.86781     | 1.27368        | 2.78574        | -3.392E-16     |
| 138   | 36     | 53     | No       | 1.86781     | 1.47289        | 4.64290        | -1.065E-16     |
| 139   | 53     | 70     | No       | 1.86781     | 1.67211        | 6.50006        | 1.262E-16      |
| 140   | 70     | 87     | No       | 1.86781     | 1.87132        | 8.35722        | 3.589E-16      |
| 141   | 87     | 104    | No       | 1.86781     | 2.07053        | 10.21438       | 5.916E-16      |
| 142   | 104    | 121    | No       | 1.86781     | 2.26975        | 12.07154       | 8.242E-16      |
| 143   | 3      | 20     | No       | 1.86781     | 2.04932        | 0.92858        | 1.264E-16      |
| 144   | 20     | 37     | No       | 1.86781     | 2.24853        | 2.78574        | -3.392E-16     |
| 145   | 37     | 54     | No       | 1.86781     | 2.44775        | 4.64290        | -1.065E-16     |
| 146   | 54     | 71     | No       | 1.86781     | 2.64696        | 6.50006        | 1.262E-16      |
| 147   | 71     | 88     | No       | 1.86781     | 2.84617        | 8.35722        | 3.589E-16      |
| 148   | 88     | 105    | No       | 1.86781     | 3.04539        | 10.21438       | 5.916E-16      |
| 149   | 105    | 122    | No       | 1.86781     | 3.24460        | 12.07154       | 8.242E-16      |
| 150   | 4      | 21     | No       | 1.86781     | 3.02417        | 0.92858        | 1.264E-16      |
| 151   | 21     | 38     | No       | 1.86781     | 3.22339        | 2.78574        | -3.392E-16     |
| 152   | 38     | 55     | No       | 1.86781     | 3.42260        | 4.64290        | -1.065E-16     |
| 153   | 55     | 72     | No       | 1.86781     | 3.62181        | 6.50006        | 1.262E-16      |
| 154   | 72     | 89     | No       | 1.86781     | 3.82103        | 8.35722        | 3.589E-16      |
| 155   | 89     | 106    | No       | 1.86781     | 4.02024        | 10.21438       | 5.916E-16      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 156   | 106    | 123    | No       | 1.86781     | 4.21946        | 12.07154       | 8.242E-16      |
| 157   | 5      | 22     | No       | 1.86781     | 3.99903        | 0.92858        | 1.264E-16      |
| 158   | 22     | 39     | No       | 1.86781     | 4.19824        | 2.78574        | -3.392E-16     |
| 159   | 39     | 56     | No       | 1.86781     | 4.39745        | 4.64290        | -1.065E-16     |
| 160   | 56     | 73     | No       | 1.86781     | 4.59667        | 6.50006        | 1.262E-16      |
| 161   | 73     | 90     | No       | 1.86781     | 4.79588        | 8.35722        | 3.589E-16      |
| 162   | 90     | 107    | No       | 1.86781     | 4.99510        | 10.21438       | 5.916E-16      |
| 163   | 107    | 124    | No       | 1.86781     | 5.19431        | 12.07154       | 8.242E-16      |
| 164   | 6      | 23     | No       | 1.86781     | 4.97388        | 0.92858        | 1.264E-16      |
| 165   | 23     | 40     | No       | 1.86781     | 5.17309        | 2.78574        | -3.392E-16     |
| 166   | 40     | 57     | No       | 1.86781     | 5.37231        | 4.64290        | -1.065E-16     |
| 167   | 57     | 74     | No       | 1.86781     | 5.57152        | 6.50006        | 1.262E-16      |
| 168   | 74     | 91     | No       | 1.86781     | 5.77074        | 8.35722        | 3.589E-16      |
| 169   | 91     | 108    | No       | 1.86781     | 5.96995        | 10.21438       | 5.916E-16      |
| 170   | 108    | 125    | No       | 1.86781     | 6.16917        | 12.07154       | 8.242E-16      |
| 171   | 7      | 24     | No       | 1.86781     | 5.94873        | 0.92858        | 1.264E-16      |
| 172   | 24     | 41     | No       | 1.86781     | 6.14795        | 2.78574        | -3.392E-16     |
| 173   | 41     | 58     | No       | 1.86781     | 6.34716        | 4.64290        | -1.065E-16     |
| 174   | 58     | 75     | No       | 1.86781     | 6.54638        | 6.50006        | 1.262E-16      |
| 175   | 75     | 92     | No       | 1.86781     | 6.74559        | 8.35722        | 3.589E-16      |
| 176   | 92     | 109    | No       | 1.86781     | 6.94481        | 10.21438       | 5.916E-16      |
| 177   | 109    | 126    | No       | 1.86781     | 7.14402        | 12.07154       | 8.242E-16      |
| 178   | 8      | 25     | No       | 1.86781     | 6.92359        | 0.92858        | 1.264E-16      |
| 179   | 25     | 42     | No       | 1.86781     | 7.12280        | 2.78574        | -3.392E-16     |
| 180   | 42     | 59     | No       | 1.86781     | 7.32202        | 4.64290        | -1.065E-16     |
| 181   | 59     | 76     | No       | 1.86781     | 7.52123        | 6.50006        | 1.262E-16      |
| 182   | 76     | 93     | No       | 1.86781     | 7.72045        | 8.35722        | 3.589E-16      |
| 183   | 93     | 110    | No       | 1.86781     | 7.91966        | 10.21438       | 5.916E-16      |
| 184   | 110    | 127    | No       | 1.86781     | 8.11888        | 12.07154       | 8.242E-16      |
| 185   | 9      | 26     | No       | 1.86781     | 7.89844        | 0.92858        | -5.819E-16     |
| 186   | 26     | 43     | No       | 1.86781     | 8.09766        | 2.78574        | -1.047E-15     |
| 187   | 43     | 60     | No       | 1.86781     | 8.29687        | 4.64290        | -8.147E-16     |
| 188   | 60     | 77     | No       | 1.86781     | 8.49609        | 6.50006        | -5.820E-16     |
| 189   | 77     | 94     | No       | 1.86781     | 8.69530        | 8.35722        | -3.494E-16     |
| 190   | 94     | 111    | No       | 1.86781     | 8.89452        | 10.21438       | -1.167E-16     |
| 191   | 111    | 128    | No       | 1.86781     | 9.09373        | 12.07154       | 1.160E-16      |
| 192   | 10     | 27     | No       | 1.86781     | 8.87330        | 0.92858        | 1.264E-16      |
| 193   | 27     | 44     | No       | 1.86781     | 9.07251        | 2.78574        | -3.392E-16     |
| 194   | 44     | 61     | No       | 1.86781     | 9.27173        | 4.64290        | -1.065E-16     |
| 195   | 61     | 78     | No       | 1.86781     | 9.47094        | 6.50006        | 1.262E-16      |
| 196   | 78     | 95     | No       | 1.86781     | 9.67016        | 8.35722        | 3.589E-16      |
| 197   | 95     | 112    | No       | 1.86781     | 9.86937        | 10.21438       | 5.916E-16      |
| 198   | 112    | 129    | No       | 1.86781     | 10.06859       | 12.07154       | 8.242E-16      |
| 199   | 11     | 28     | No       | 1.86781     | 9.84815        | 0.92858        | 1.264E-16      |
| 200   | 28     | 45     | No       | 1.86781     | 10.04737       | 2.78574        | -3.392E-16     |
| 201   | 45     | 62     | No       | 1.86781     | 10.24658       | 4.64290        | -1.065E-16     |
| 202   | 62     | 79     | No       | 1.86781     | 10.44580       | 6.50006        | 1.262E-16      |
| 203   | 79     | 96     | No       | 1.86781     | 10.64501       | 8.35722        | 3.589E-16      |
| 204   | 96     | 113    | No       | 1.86781     | 10.84423       | 10.21438       | 5.916E-16      |
| 205   | 113    | 130    | No       | 1.86781     | 11.04344       | 12.07154       | 8.242E-16      |
| 206   | 12     | 29     | No       | 1.86781     | 10.82301       | 0.92858        | 1.264E-16      |
| 207   | 29     | 46     | No       | 1.86781     | 11.02222       | 2.78574        | -3.392E-16     |
| 208   | 46     | 63     | No       | 1.86781     | 11.22144       | 4.64290        | -1.065E-16     |
| 209   | 63     | 80     | No       | 1.86781     | 11.42065       | 6.50006        | 1.262E-16      |
| 210   | 80     | 97     | No       | 1.86781     | 11.61987       | 8.35722        | 3.589E-16      |
| 211   | 97     | 114    | No       | 1.86781     | 11.81908       | 10.21438       | 5.916E-16      |
| 212   | 114    | 131    | No       | 1.86781     | 12.01829       | 12.07154       | 8.242E-16      |
| 213   | 13     | 30     | No       | 1.86781     | 11.79786       | 0.92858        | 1.264E-16      |
| 214   | 30     | 47     | No       | 1.86781     | 11.99708       | 2.78574        | -3.392E-16     |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 215   | 47     | 64     | No       | 1.86781     | 12.19629       | 4.64290        | -1.065E-16     |
| 216   | 64     | 81     | No       | 1.86781     | 12.39551       | 6.50006        | 1.262E-16      |
| 217   | 81     | 98     | No       | 1.86781     | 12.59472       | 8.35722        | 3.589E-16      |
| 218   | 98     | 115    | No       | 1.86781     | 12.79393       | 10.21438       | 5.916E-16      |
| 219   | 115    | 132    | No       | 1.86781     | 12.99315       | 12.07154       | 8.242E-16      |
| 220   | 14     | 31     | No       | 1.86781     | 12.77272       | 0.92858        | 1.264E-16      |
| 221   | 31     | 48     | No       | 1.86781     | 12.97193       | 2.78574        | -3.392E-16     |
| 222   | 48     | 65     | No       | 1.86781     | 13.17115       | 4.64290        | -1.065E-16     |
| 223   | 65     | 82     | No       | 1.86781     | 13.37036       | 6.50006        | 1.262E-16      |
| 224   | 82     | 99     | No       | 1.86781     | 13.56957       | 8.35722        | 3.589E-16      |
| 225   | 99     | 116    | No       | 1.86781     | 13.76879       | 10.21438       | 5.916E-16      |
| 226   | 116    | 133    | No       | 1.86781     | 13.96800       | 12.07154       | 8.242E-16      |
| 227   | 15     | 32     | No       | 1.86781     | 13.74757       | 0.92858        | 1.264E-16      |
| 228   | 32     | 49     | No       | 1.86781     | 13.94679       | 2.78574        | -3.392E-16     |
| 229   | 49     | 66     | No       | 1.86781     | 14.14600       | 4.64290        | -1.065E-16     |
| 230   | 66     | 83     | No       | 1.86781     | 14.34521       | 6.50006        | 1.262E-16      |
| 231   | 83     | 100    | No       | 1.86781     | 14.54443       | 8.35722        | 3.589E-16      |
| 232   | 100    | 117    | No       | 1.86781     | 14.74364       | 10.21438       | 5.916E-16      |
| 233   | 117    | 134    | No       | 1.86781     | 14.94286       | 12.07154       | 8.242E-16      |
| 234   | 16     | 33     | No       | 1.86781     | 14.72243       | 0.92858        | 1.264E-16      |
| 235   | 33     | 50     | No       | 1.86781     | 14.92164       | 2.78574        | -3.392E-16     |
| 236   | 50     | 67     | No       | 1.86781     | 15.12085       | 4.64290        | -1.065E-16     |
| 237   | 67     | 84     | No       | 1.86781     | 15.32007       | 6.50006        | 1.262E-16      |
| 238   | 84     | 101    | No       | 1.86781     | 15.51928       | 8.35722        | 3.589E-16      |
| 239   | 101    | 118    | No       | 1.86781     | 15.71850       | 10.21438       | 5.916E-16      |
| 240   | 118    | 135    | No       | 1.86781     | 15.91771       | 12.07154       | 8.242E-16      |
| 241   | 17     | 34     | No       | 1.86781     | 15.69728       | 0.92858        | -5.819E-16     |
| 242   | 34     | 51     | No       | 1.86781     | 15.89649       | 2.78574        | -1.047E-15     |
| 243   | 51     | 68     | No       | 1.86781     | 16.09571       | 4.64290        | -8.147E-16     |
| 244   | 68     | 85     | No       | 1.86781     | 16.29492       | 6.50006        | -5.820E-16     |
| 245   | 85     | 102    | No       | 1.86781     | 16.49414       | 8.35722        | -3.494E-16     |
| 246   | 102    | 119    | No       | 1.86781     | 16.69335       | 10.21438       | -1.167E-16     |
| 247   | 119    | 136    | No       | 1.86781     | 16.89257       | 12.07154       | 1.160E-16      |

Table: Frame Section Assignments

Table: Frame Section Assignments

| Frame | SectionType | AutoSelect | AnalSect | DesignSect | MatProp |
|-------|-------------|------------|----------|------------|---------|
| 1     | General     | N.A.       | LE       | N.A.       | Default |
| 2     | General     | N.A.       | LE       | N.A.       | Default |
| 3     | General     | N.A.       | LE       | N.A.       | Default |
| 4     | General     | N.A.       | LE       | N.A.       | Default |
| 5     | General     | N.A.       | LE       | N.A.       | Default |
| 6     | General     | N.A.       | LE       | N.A.       | Default |
| 7     | General     | N.A.       | LE       | N.A.       | Default |
| 8     | General     | N.A.       | LE       | N.A.       | Default |
| 9     | General     | N.A.       | LE       | N.A.       | Default |
| 10    | General     | N.A.       | LE       | N.A.       | Default |
| 11    | General     | N.A.       | LE       | N.A.       | Default |
| 12    | General     | N.A.       | LE       | N.A.       | Default |
| 13    | General     | N.A.       | LE       | N.A.       | Default |
| 14    | General     | N.A.       | LE       | N.A.       | Default |
| 15    | General     | N.A.       | LE       | N.A.       | Default |
| 16    | General     | N.A.       | LE       | N.A.       | Default |
| 17    | General     | N.A.       | LI       | N.A.       | Default |

Table: Frame Section Assignments

| Frame | SectionType | AutoSelect | AnalSect | DesignSect | MatProp |
|-------|-------------|------------|----------|------------|---------|
| 18    | General     | N.A.       | LI       | N.A.       | Default |
| 19    | General     | N.A.       | LI       | N.A.       | Default |
| 20    | General     | N.A.       | LI       | N.A.       | Default |
| 21    | General     | N.A.       | LI       | N.A.       | Default |
| 22    | General     | N.A.       | LI       | N.A.       | Default |
| 23    | General     | N.A.       | LI       | N.A.       | Default |
| 24    | General     | N.A.       | LI       | N.A.       | Default |
| 25    | General     | N.A.       | LI       | N.A.       | Default |
| 26    | General     | N.A.       | LI       | N.A.       | Default |
| 27    | General     | N.A.       | LI       | N.A.       | Default |
| 28    | General     | N.A.       | LI       | N.A.       | Default |
| 29    | General     | N.A.       | LI       | N.A.       | Default |
| 30    | General     | N.A.       | LI       | N.A.       | Default |
| 31    | General     | N.A.       | LI       | N.A.       | Default |
| 32    | General     | N.A.       | LI       | N.A.       | Default |
| 33    | General     | N.A.       | LI       | N.A.       | Default |
| 34    | General     | N.A.       | LI       | N.A.       | Default |
| 35    | General     | N.A.       | LI       | N.A.       | Default |
| 36    | General     | N.A.       | LI       | N.A.       | Default |
| 37    | General     | N.A.       | LI       | N.A.       | Default |
| 38    | General     | N.A.       | LI       | N.A.       | Default |
| 39    | General     | N.A.       | LI       | N.A.       | Default |
| 40    | General     | N.A.       | LI       | N.A.       | Default |
| 41    | General     | N.A.       | LI       | N.A.       | Default |
| 42    | General     | N.A.       | LI       | N.A.       | Default |
| 43    | General     | N.A.       | LI       | N.A.       | Default |
| 44    | General     | N.A.       | LI       | N.A.       | Default |
| 45    | General     | N.A.       | LI       | N.A.       | Default |
| 46    | General     | N.A.       | LI       | N.A.       | Default |
| 47    | General     | N.A.       | LI       | N.A.       | Default |
| 48    | General     | N.A.       | LI       | N.A.       | Default |
| 49    | General     | N.A.       | LI       | N.A.       | Default |
| 50    | General     | N.A.       | LI       | N.A.       | Default |
| 51    | General     | N.A.       | LI       | N.A.       | Default |
| 52    | General     | N.A.       | LI       | N.A.       | Default |
| 53    | General     | N.A.       | LI       | N.A.       | Default |
| 54    | General     | N.A.       | LI       | N.A.       | Default |
| 55    | General     | N.A.       | LI       | N.A.       | Default |
| 56    | General     | N.A.       | LI       | N.A.       | Default |
| 57    | General     | N.A.       | LI       | N.A.       | Default |
| 58    | General     | N.A.       | LI       | N.A.       | Default |
| 59    | General     | N.A.       | LI       | N.A.       | Default |
| 60    | General     | N.A.       | LI       | N.A.       | Default |
| 61    | General     | N.A.       | LI       | N.A.       | Default |
| 62    | General     | N.A.       | LI       | N.A.       | Default |
| 63    | General     | N.A.       | LI       | N.A.       | Default |
| 64    | General     | N.A.       | LI       | N.A.       | Default |
| 65    | General     | N.A.       | LI       | N.A.       | Default |
| 66    | General     | N.A.       | LI       | N.A.       | Default |
| 67    | General     | N.A.       | LI       | N.A.       | Default |
| 68    | General     | N.A.       | LI       | N.A.       | Default |
| 69    | General     | N.A.       | LI       | N.A.       | Default |
| 70    | General     | N.A.       | LI       | N.A.       | Default |
| 71    | General     | N.A.       | LI       | N.A.       | Default |
| 72    | General     | N.A.       | LI       | N.A.       | Default |
| 73    | General     | N.A.       | LI       | N.A.       | Default |
| 74    | General     | N.A.       | LI       | N.A.       | Default |
| 75    | General     | N.A.       | LI       | N.A.       | Default |
| 76    | General     | N.A.       | LI       | N.A.       | Default |



Table: Frame Section Assignments

| Frame | SectionType | AutoSelect | AnalSect | DesignSect | MatProp |
|-------|-------------|------------|----------|------------|---------|
| 195   | General     | N.A.       | T        | N.A.       | Default |
| 196   | General     | N.A.       | T        | N.A.       | Default |
| 197   | General     | N.A.       | T        | N.A.       | Default |
| 198   | General     | N.A.       | T        | N.A.       | Default |
| 199   | General     | N.A.       | T        | N.A.       | Default |
| 200   | General     | N.A.       | T        | N.A.       | Default |
| 201   | General     | N.A.       | T        | N.A.       | Default |
| 202   | General     | N.A.       | T        | N.A.       | Default |
| 203   | General     | N.A.       | T        | N.A.       | Default |
| 204   | General     | N.A.       | T        | N.A.       | Default |
| 205   | General     | N.A.       | T        | N.A.       | Default |
| 206   | General     | N.A.       | T        | N.A.       | Default |
| 207   | General     | N.A.       | T        | N.A.       | Default |
| 208   | General     | N.A.       | T        | N.A.       | Default |
| 209   | General     | N.A.       | T        | N.A.       | Default |
| 210   | General     | N.A.       | T        | N.A.       | Default |
| 211   | General     | N.A.       | T        | N.A.       | Default |
| 212   | General     | N.A.       | T        | N.A.       | Default |
| 213   | General     | N.A.       | T        | N.A.       | Default |
| 214   | General     | N.A.       | T        | N.A.       | Default |
| 215   | General     | N.A.       | T        | N.A.       | Default |
| 216   | General     | N.A.       | T        | N.A.       | Default |
| 217   | General     | N.A.       | T        | N.A.       | Default |
| 218   | General     | N.A.       | T        | N.A.       | Default |
| 219   | General     | N.A.       | T        | N.A.       | Default |
| 220   | General     | N.A.       | T        | N.A.       | Default |
| 221   | General     | N.A.       | T        | N.A.       | Default |
| 222   | General     | N.A.       | T        | N.A.       | Default |
| 223   | General     | N.A.       | T        | N.A.       | Default |
| 224   | General     | N.A.       | T        | N.A.       | Default |
| 225   | General     | N.A.       | T        | N.A.       | Default |
| 226   | General     | N.A.       | T        | N.A.       | Default |
| 227   | General     | N.A.       | T        | N.A.       | Default |
| 228   | General     | N.A.       | T        | N.A.       | Default |
| 229   | General     | N.A.       | T        | N.A.       | Default |
| 230   | General     | N.A.       | T        | N.A.       | Default |
| 231   | General     | N.A.       | T        | N.A.       | Default |
| 232   | General     | N.A.       | T        | N.A.       | Default |
| 233   | General     | N.A.       | T        | N.A.       | Default |
| 234   | General     | N.A.       | T        | N.A.       | Default |
| 235   | General     | N.A.       | T        | N.A.       | Default |
| 236   | General     | N.A.       | T        | N.A.       | Default |
| 237   | General     | N.A.       | T        | N.A.       | Default |
| 238   | General     | N.A.       | T        | N.A.       | Default |
| 239   | General     | N.A.       | T        | N.A.       | Default |
| 240   | General     | N.A.       | T        | N.A.       | Default |
| 241   | General     | N.A.       | T        | N.A.       | Default |
| 242   | General     | N.A.       | T        | N.A.       | Default |
| 243   | General     | N.A.       | T        | N.A.       | Default |
| 244   | General     | N.A.       | T        | N.A.       | Default |
| 245   | General     | N.A.       | T        | N.A.       | Default |
| 246   | General     | N.A.       | T        | N.A.       | Default |
| 247   | General     | N.A.       | T        | N.A.       | Default |

Table: Frame Section Properties 01 - General, Part 1 of 5

| Table: Frame Section Properties 01 - General, Part 1 of 5 |          |         |          |          |            |                 |
|-----------------------------------------------------------|----------|---------|----------|----------|------------|-----------------|
| SectionName                                               | Material | Shape   | t3<br>m  | t2<br>m  | Area<br>m2 | TorsConst<br>m4 |
| LE                                                        | H50      | General | 0.457200 | 0.254000 | 0.500000   | 0.003253        |
| LI                                                        | H50      | General | 0.457200 | 0.254000 | 0.571000   | 0.005677        |
| T                                                         | H25      | General | 0.457200 | 0.254000 | 0.195000   | 0.001300        |
| TL2                                                       | H25      | General | 0.457200 | 0.254000 | 0.195000   | 0.001300        |

Table: Frame Section Properties 01 - General, Part 2 of 5

| Table: Frame Section Properties 01 - General, Part 2 of 5 |           |           |           |           |           |           |
|-----------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| SectionName                                               | I33<br>m4 | I22<br>m4 | AS2<br>m2 | AS3<br>m2 | S33<br>m3 | Z33<br>m3 |
| LE                                                        | 0.067000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |
| LI                                                        | 0.073000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |
| T                                                         | 0.000650  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |
| TL2                                                       | 0.000650  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |

Table: Frame Section Properties 01 - General, Part 3 of 5

| Table: Frame Section Properties 01 - General, Part 3 of 5 |           |          |          |         |          |                 |
|-----------------------------------------------------------|-----------|----------|----------|---------|----------|-----------------|
| SectionName                                               | Z22<br>m3 | R33<br>m | R22<br>m | ConcCol | ConcBeam | TotalWt<br>Tonf |
| LE                                                        | 1.000000  | 1.000000 | 1.000000 | No      | No       | 0.0000          |
| LI                                                        | 1.000000  | 1.000000 | 1.000000 | No      | No       | 0.0000          |
| T                                                         | 1.000000  | 1.000000 | 1.000000 | No      | No       | 0.0000          |
| TL2                                                       | 1.000000  | 1.000000 | 1.000000 | No      | No       | 0.0000          |

Table: Frame Section Properties 01 - General, Part 4 of 5

| Table: Frame Section Properties 01 - General, Part 4 of 5 |                        |          |          |          |          |          |
|-----------------------------------------------------------|------------------------|----------|----------|----------|----------|----------|
| SectionName                                               | TotalMass<br>Tonf-s2/m | FromFile | AMod     | A2Mod    | A3Mod    | JMod     |
| LE                                                        | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| LI                                                        | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| T                                                         | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| TL2                                                       | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

Table: Frame Section Properties 01 - General, Part 5 of 5

| Table: Frame Section Properties 01 - General, Part 5 of 5 |          |          |          |      |                           |
|-----------------------------------------------------------|----------|----------|----------|------|---------------------------|
| SectionName                                               | I3Mod    | MMod     | WMod     | GUID | Notes                     |
| LE                                                        | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 14:00:58 |
| LI                                                        | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 14:01:34 |
| T                                                         | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 14:05:04 |
| TL2                                                       | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 16:04:03 |

Table: Joint Added Mass Assignments

| Table: Joint Added Mass Assignments |          |           |           |           |           |           |           |
|-------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Joint                               | CoordSys | Mass1     | Mass2     | Mass3     | MMI1      | MMI2      | MMI3      |
|                                     |          | Tonf-s2/m | Tonf-s2/m | Tonf-s2/m | Tonf-m-s2 | Tonf-m-s2 | Tonf-m-s2 |
| 2                                   | Global   | 0.00      | 0.00      | 0.26      | 0.00000   | 0.00000   | 0.00000   |
| 3                                   | Global   | 0.00      | 0.00      | 0.26      | 0.00000   | 0.00000   | 0.00000   |
| 4                                   | Global   | 0.00      | 0.00      | 0.26      | 0.00000   | 0.00000   | 0.00000   |

**Table: Joint Added Mass Assignments**

[illegible]

Table: Joint Added Mass Assignments

[illegible]

Table: Joint Coordinates, Part 1 of 2

| Table: Joint Coordinates, Part 1 of 2 |          |           |           |         |            |           |              |
|---------------------------------------|----------|-----------|-----------|---------|------------|-----------|--------------|
| Joint                                 | CoordSys | CoordType | XorR<br>m | Y<br>m  | Z<br>m     | SpecialJt | GlobalX<br>m |
| 1                                     | GLOBAL   | Cartesian | 0.00000   | 0.00000 | 0.00000    | No        | 0.00000      |
| 2                                     | GLOBAL   | Cartesian | 0.97485   | 0.00000 | 7.082E-16  | No        | 0.97485      |
| 3                                     | GLOBAL   | Cartesian | 1.94971   | 0.00000 | 7.082E-16  | No        | 1.94971      |
| 4                                     | GLOBAL   | Cartesian | 2.92456   | 0.00000 | 7.082E-16  | No        | 2.92456      |
| 5                                     | GLOBAL   | Cartesian | 3.89942   | 0.00000 | 7.082E-16  | No        | 3.89942      |
| 6                                     | GLOBAL   | Cartesian | 4.87427   | 0.00000 | 7.082E-16  | No        | 4.87427      |
| 7                                     | GLOBAL   | Cartesian | 5.84913   | 0.00000 | 7.082E-16  | No        | 5.84913      |
| 8                                     | GLOBAL   | Cartesian | 6.82398   | 0.00000 | 7.082E-16  | No        | 6.82398      |
| 9                                     | GLOBAL   | Cartesian | 7.79884   | 0.00000 | 0.00000    | No        | 7.79884      |
| 10                                    | GLOBAL   | Cartesian | 8.77369   | 0.00000 | 7.082E-16  | No        | 8.77369      |
| 11                                    | GLOBAL   | Cartesian | 9.74855   | 0.00000 | 7.082E-16  | No        | 9.74855      |
| 12                                    | GLOBAL   | Cartesian | 10.72340  | 0.00000 | 7.082E-16  | No        | 10.72340     |
| 13                                    | GLOBAL   | Cartesian | 11.69825  | 0.00000 | 7.082E-16  | No        | 11.69825     |
| 14                                    | GLOBAL   | Cartesian | 12.67311  | 0.00000 | 7.082E-16  | No        | 12.67311     |
| 15                                    | GLOBAL   | Cartesian | 13.64796  | 0.00000 | 7.082E-16  | No        | 13.64796     |
| 16                                    | GLOBAL   | Cartesian | 14.62282  | 0.00000 | 7.082E-16  | No        | 14.62282     |
| 17                                    | GLOBAL   | Cartesian | 15.59767  | 0.00000 | 0.00000    | No        | 15.59767     |
| 18                                    | GLOBAL   | Cartesian | 0.19921   | 1.85716 | -1.164E-15 | No        | 0.19921      |
| 19                                    | GLOBAL   | Cartesian | 1.17407   | 1.85716 | -4.555E-16 | No        | 1.17407      |
| 20                                    | GLOBAL   | Cartesian | 2.14892   | 1.85716 | -4.555E-16 | No        | 2.14892      |
| 21                                    | GLOBAL   | Cartesian | 3.12378   | 1.85716 | -4.555E-16 | No        | 3.12378      |
| 22                                    | GLOBAL   | Cartesian | 4.09863   | 1.85716 | -4.555E-16 | No        | 4.09863      |
| 23                                    | GLOBAL   | Cartesian | 5.07349   | 1.85716 | -4.555E-16 | No        | 5.07349      |
| 24                                    | GLOBAL   | Cartesian | 6.04834   | 1.85716 | -4.555E-16 | No        | 6.04834      |
| 25                                    | GLOBAL   | Cartesian | 7.02320   | 1.85716 | -4.555E-16 | No        | 7.02320      |
| 26                                    | GLOBAL   | Cartesian | 7.99805   | 1.85716 | -1.164E-15 | No        | 7.99805      |
| 27                                    | GLOBAL   | Cartesian | 8.97291   | 1.85716 | -4.555E-16 | No        | 8.97291      |
| 28                                    | GLOBAL   | Cartesian | 9.94776   | 1.85716 | -4.555E-16 | No        | 9.94776      |
| 29                                    | GLOBAL   | Cartesian | 10.92261  | 1.85716 | -4.555E-16 | No        | 10.92261     |
| 30                                    | GLOBAL   | Cartesian | 11.89747  | 1.85716 | -4.555E-16 | No        | 11.89747     |
| 31                                    | GLOBAL   | Cartesian | 12.87232  | 1.85716 | -4.555E-16 | No        | 12.87232     |
| 32                                    | GLOBAL   | Cartesian | 13.84718  | 1.85716 | -4.555E-16 | No        | 13.84718     |
| 33                                    | GLOBAL   | Cartesian | 14.82203  | 1.85716 | -4.555E-16 | No        | 14.82203     |
| 34                                    | GLOBAL   | Cartesian | 15.79689  | 1.85716 | -1.164E-15 | No        | 15.79689     |
| 35                                    | GLOBAL   | Cartesian | 0.39843   | 3.71432 | -9.311E-16 | No        | 0.39843      |
| 36                                    | GLOBAL   | Cartesian | 1.37328   | 3.71432 | -2.228E-16 | No        | 1.37328      |
| 37                                    | GLOBAL   | Cartesian | 2.34814   | 3.71432 | -2.228E-16 | No        | 2.34814      |
| 38                                    | GLOBAL   | Cartesian | 3.32299   | 3.71432 | -2.228E-16 | No        | 3.32299      |
| 39                                    | GLOBAL   | Cartesian | 4.29785   | 3.71432 | -2.228E-16 | No        | 4.29785      |
| 40                                    | GLOBAL   | Cartesian | 5.27270   | 3.71432 | -2.228E-16 | No        | 5.27270      |
| 41                                    | GLOBAL   | Cartesian | 6.24756   | 3.71432 | -2.228E-16 | No        | 6.24756      |
| 42                                    | GLOBAL   | Cartesian | 7.22241   | 3.71432 | -2.228E-16 | No        | 7.22241      |
| 43                                    | GLOBAL   | Cartesian | 8.19727   | 3.71432 | -9.311E-16 | No        | 8.19727      |
| 44                                    | GLOBAL   | Cartesian | 9.17212   | 3.71432 | -2.228E-16 | No        | 9.17212      |
| 45                                    | GLOBAL   | Cartesian | 10.14697  | 3.71432 | -2.228E-16 | No        | 10.14697     |
| 46                                    | GLOBAL   | Cartesian | 11.12183  | 3.71432 | -2.228E-16 | No        | 11.12183     |
| 47                                    | GLOBAL   | Cartesian | 12.09668  | 3.71432 | -2.228E-16 | No        | 12.09668     |
| 48                                    | GLOBAL   | Cartesian | 13.07154  | 3.71432 | -2.228E-16 | No        | 13.07154     |
| 49                                    | GLOBAL   | Cartesian | 14.04639  | 3.71432 | -2.228E-16 | No        | 14.04639     |
| 50                                    | GLOBAL   | Cartesian | 15.02125  | 3.71432 | -2.228E-16 | No        | 15.02125     |
| 51                                    | GLOBAL   | Cartesian | 15.99610  | 3.71432 | -9.311E-16 | No        | 15.99610     |
| 52                                    | GLOBAL   | Cartesian | 0.59764   | 5.57148 | -6.984E-16 | No        | 0.59764      |
| 53                                    | GLOBAL   | Cartesian | 1.57250   | 5.57148 | 9.857E-18  | No        | 1.57250      |
| 54                                    | GLOBAL   | Cartesian | 2.54735   | 5.57148 | 9.857E-18  | No        | 2.54735      |
| 55                                    | GLOBAL   | Cartesian | 3.52221   | 5.57148 | 9.857E-18  | No        | 3.52221      |
| 56                                    | GLOBAL   | Cartesian | 4.49706   | 5.57148 | 9.857E-18  | No        | 4.49706      |

| Table: Joint Coordinates, Part 1 of 2 |          |           |           |          |            |           |              |
|---------------------------------------|----------|-----------|-----------|----------|------------|-----------|--------------|
| Joint                                 | CoordSys | CoordType | XorR<br>m | Y<br>m   | Z<br>m     | SpecialJt | GlobalX<br>m |
| 57                                    | GLOBAL   | Cartesian | 5.47192   | 5.57148  | 9.857E-18  | No        | 5.47192      |
| 58                                    | GLOBAL   | Cartesian | 6.44677   | 5.57148  | 9.857E-18  | No        | 6.44677      |
| 59                                    | GLOBAL   | Cartesian | 7.42163   | 5.57148  | 9.857E-18  | No        | 7.42163      |
| 60                                    | GLOBAL   | Cartesian | 8.39648   | 5.57148  | -6.984E-16 | No        | 8.39648      |
| 61                                    | GLOBAL   | Cartesian | 9.37133   | 5.57148  | 9.857E-18  | No        | 9.37133      |
| 62                                    | GLOBAL   | Cartesian | 10.34619  | 5.57148  | 9.857E-18  | No        | 10.34619     |
| 63                                    | GLOBAL   | Cartesian | 11.32104  | 5.57148  | 9.857E-18  | No        | 11.32104     |
| 64                                    | GLOBAL   | Cartesian | 12.29590  | 5.57148  | 9.857E-18  | No        | 12.29590     |
| 65                                    | GLOBAL   | Cartesian | 13.27075  | 5.57148  | 9.857E-18  | No        | 13.27075     |
| 66                                    | GLOBAL   | Cartesian | 14.24561  | 5.57148  | 9.857E-18  | No        | 14.24561     |
| 67                                    | GLOBAL   | Cartesian | 15.22046  | 5.57148  | 9.857E-18  | No        | 15.22046     |
| 68                                    | GLOBAL   | Cartesian | 16.19532  | 5.57148  | -6.984E-16 | No        | 16.19532     |
| 69                                    | GLOBAL   | Cartesian | 0.79686   | 7.42864  | -4.657E-16 | No        | 0.79686      |
| 70                                    | GLOBAL   | Cartesian | 1.77171   | 7.42864  | 2.425E-16  | No        | 1.77171      |
| 71                                    | GLOBAL   | Cartesian | 2.74657   | 7.42864  | 2.425E-16  | No        | 2.74657      |
| 72                                    | GLOBAL   | Cartesian | 3.72142   | 7.42864  | 2.425E-16  | No        | 3.72142      |
| 73                                    | GLOBAL   | Cartesian | 4.69628   | 7.42864  | 2.425E-16  | No        | 4.69628      |
| 74                                    | GLOBAL   | Cartesian | 5.67113   | 7.42864  | 2.425E-16  | No        | 5.67113      |
| 75                                    | GLOBAL   | Cartesian | 6.64599   | 7.42864  | 2.425E-16  | No        | 6.64599      |
| 76                                    | GLOBAL   | Cartesian | 7.62084   | 7.42864  | 2.425E-16  | No        | 7.62084      |
| 77                                    | GLOBAL   | Cartesian | 8.59569   | 7.42864  | -4.657E-16 | No        | 8.59569      |
| 78                                    | GLOBAL   | Cartesian | 9.57055   | 7.42864  | 2.425E-16  | No        | 9.57055      |
| 79                                    | GLOBAL   | Cartesian | 10.54540  | 7.42864  | 2.425E-16  | No        | 10.54540     |
| 80                                    | GLOBAL   | Cartesian | 11.52026  | 7.42864  | 2.425E-16  | No        | 11.52026     |
| 81                                    | GLOBAL   | Cartesian | 12.49511  | 7.42864  | 2.425E-16  | No        | 12.49511     |
| 82                                    | GLOBAL   | Cartesian | 13.46997  | 7.42864  | 2.425E-16  | No        | 13.46997     |
| 83                                    | GLOBAL   | Cartesian | 14.44482  | 7.42864  | 2.425E-16  | No        | 14.44482     |
| 84                                    | GLOBAL   | Cartesian | 15.41968  | 7.42864  | 2.425E-16  | No        | 15.41968     |
| 85                                    | GLOBAL   | Cartesian | 16.39453  | 7.42864  | -4.657E-16 | No        | 16.39453     |
| 86                                    | GLOBAL   | Cartesian | 0.99607   | 9.28580  | -2.330E-16 | No        | 0.99607      |
| 87                                    | GLOBAL   | Cartesian | 1.97093   | 9.28580  | 4.752E-16  | No        | 1.97093      |
| 88                                    | GLOBAL   | Cartesian | 2.94578   | 9.28580  | 4.752E-16  | No        | 2.94578      |
| 89                                    | GLOBAL   | Cartesian | 3.92064   | 9.28580  | 4.752E-16  | No        | 3.92064      |
| 90                                    | GLOBAL   | Cartesian | 4.89549   | 9.28580  | 4.752E-16  | No        | 4.89549      |
| 91                                    | GLOBAL   | Cartesian | 5.87035   | 9.28580  | 4.752E-16  | No        | 5.87035      |
| 92                                    | GLOBAL   | Cartesian | 6.84520   | 9.28580  | 4.752E-16  | No        | 6.84520      |
| 93                                    | GLOBAL   | Cartesian | 7.82005   | 9.28580  | 4.752E-16  | No        | 7.82005      |
| 94                                    | GLOBAL   | Cartesian | 8.79491   | 9.28580  | -2.330E-16 | No        | 8.79491      |
| 95                                    | GLOBAL   | Cartesian | 9.76976   | 9.28580  | 4.752E-16  | No        | 9.76976      |
| 96                                    | GLOBAL   | Cartesian | 10.74462  | 9.28580  | 4.752E-16  | No        | 10.74462     |
| 97                                    | GLOBAL   | Cartesian | 11.71947  | 9.28580  | 4.752E-16  | No        | 11.71947     |
| 98                                    | GLOBAL   | Cartesian | 12.69433  | 9.28580  | 4.752E-16  | No        | 12.69433     |
| 99                                    | GLOBAL   | Cartesian | 13.66918  | 9.28580  | 4.752E-16  | No        | 13.66918     |
| 100                                   | GLOBAL   | Cartesian | 14.64404  | 9.28580  | 4.752E-16  | No        | 14.64404     |
| 101                                   | GLOBAL   | Cartesian | 15.61889  | 9.28580  | 4.752E-16  | No        | 15.61889     |
| 102                                   | GLOBAL   | Cartesian | 16.59375  | 9.28580  | -2.330E-16 | No        | 16.59375     |
| 103                                   | GLOBAL   | Cartesian | 1.19529   | 11.14296 | -3.551E-19 | No        | 1.19529      |
| 104                                   | GLOBAL   | Cartesian | 2.17014   | 11.14296 | 7.079E-16  | No        | 2.17014      |
| 105                                   | GLOBAL   | Cartesian | 3.14500   | 11.14296 | 7.079E-16  | No        | 3.14500      |
| 106                                   | GLOBAL   | Cartesian | 4.11985   | 11.14296 | 7.079E-16  | No        | 4.11985      |
| 107                                   | GLOBAL   | Cartesian | 5.09471   | 11.14296 | 7.079E-16  | No        | 5.09471      |
| 108                                   | GLOBAL   | Cartesian | 6.06956   | 11.14296 | 7.079E-16  | No        | 6.06956      |
| 109                                   | GLOBAL   | Cartesian | 7.04441   | 11.14296 | 7.079E-16  | No        | 7.04441      |
| 110                                   | GLOBAL   | Cartesian | 8.01927   | 11.14296 | 7.079E-16  | No        | 8.01927      |
| 111                                   | GLOBAL   | Cartesian | 8.99412   | 11.14296 | -3.551E-19 | No        | 8.99412      |
| 112                                   | GLOBAL   | Cartesian | 9.96898   | 11.14296 | 7.079E-16  | No        | 9.96898      |
| 113                                   | GLOBAL   | Cartesian | 10.94383  | 11.14296 | 7.079E-16  | No        | 10.94383     |
| 114                                   | GLOBAL   | Cartesian | 11.91869  | 11.14296 | 7.079E-16  | No        | 11.91869     |
| 115                                   | GLOBAL   | Cartesian | 12.89354  | 11.14296 | 7.079E-16  | No        | 12.89354     |

Table: Joint Coordinates, Part 1 of 2

| Joint | CoordSys | CoordType | XorR<br>m | Y<br>m   | Z<br>m     | SpecialJt | GlobalX<br>m |
|-------|----------|-----------|-----------|----------|------------|-----------|--------------|
| 116   | GLOBAL   | Cartesian | 13.86840  | 11.14296 | 7.079E-16  | No        | 13.86840     |
| 117   | GLOBAL   | Cartesian | 14.84325  | 11.14296 | 7.079E-16  | No        | 14.84325     |
| 118   | GLOBAL   | Cartesian | 15.81811  | 11.14296 | 7.079E-16  | No        | 15.81811     |
| 119   | GLOBAL   | Cartesian | 16.79296  | 11.14296 | -3.551E-19 | No        | 16.79296     |
| 120   | GLOBAL   | Cartesian | 1.39450   | 13.00012 | 2.323E-16  | No        | 1.39450      |
| 121   | GLOBAL   | Cartesian | 2.36936   | 13.00012 | 9.406E-16  | No        | 2.36936      |
| 122   | GLOBAL   | Cartesian | 3.34421   | 13.00012 | 9.406E-16  | No        | 3.34421      |
| 123   | GLOBAL   | Cartesian | 4.31906   | 13.00012 | 9.406E-16  | No        | 4.31906      |
| 124   | GLOBAL   | Cartesian | 5.29392   | 13.00012 | 9.406E-16  | No        | 5.29392      |
| 125   | GLOBAL   | Cartesian | 6.26877   | 13.00012 | 9.406E-16  | No        | 6.26877      |
| 126   | GLOBAL   | Cartesian | 7.24363   | 13.00012 | 9.406E-16  | No        | 7.24363      |
| 127   | GLOBAL   | Cartesian | 8.21848   | 13.00012 | 9.406E-16  | No        | 8.21848      |
| 128   | GLOBAL   | Cartesian | 9.19334   | 13.00012 | 2.323E-16  | No        | 9.19334      |
| 129   | GLOBAL   | Cartesian | 10.16819  | 13.00012 | 9.406E-16  | No        | 10.16819     |
| 130   | GLOBAL   | Cartesian | 11.14305  | 13.00012 | 9.406E-16  | No        | 11.14305     |
| 131   | GLOBAL   | Cartesian | 12.11790  | 13.00012 | 9.406E-16  | No        | 12.11790     |
| 132   | GLOBAL   | Cartesian | 13.09276  | 13.00012 | 9.406E-16  | No        | 13.09276     |
| 133   | GLOBAL   | Cartesian | 14.06761  | 13.00012 | 9.406E-16  | No        | 14.06761     |
| 134   | GLOBAL   | Cartesian | 15.04247  | 13.00012 | 9.406E-16  | No        | 15.04247     |
| 135   | GLOBAL   | Cartesian | 16.01732  | 13.00012 | 9.406E-16  | No        | 16.01732     |
| 136   | GLOBAL   | Cartesian | 16.99217  | 13.00012 | 2.323E-16  | No        | 16.99217     |

Table: Joint Coordinates, Part 2 of 2

Table: Joint Coordinates, Part 2 of 2

| Joint | GlobalY<br>m | GlobalZ<br>m | GUID |
|-------|--------------|--------------|------|
| 1     | 0.00000      | 0.00000      |      |
| 2     | 0.00000      | 7.082E-16    |      |
| 3     | 0.00000      | 7.082E-16    |      |
| 4     | 0.00000      | 7.082E-16    |      |
| 5     | 0.00000      | 7.082E-16    |      |
| 6     | 0.00000      | 7.082E-16    |      |
| 7     | 0.00000      | 7.082E-16    |      |
| 8     | 0.00000      | 7.082E-16    |      |
| 9     | 0.00000      | 0.00000      |      |
| 10    | 0.00000      | 7.082E-16    |      |
| 11    | 0.00000      | 7.082E-16    |      |
| 12    | 0.00000      | 7.082E-16    |      |
| 13    | 0.00000      | 7.082E-16    |      |
| 14    | 0.00000      | 7.082E-16    |      |
| 15    | 0.00000      | 7.082E-16    |      |
| 16    | 0.00000      | 7.082E-16    |      |
| 17    | 0.00000      | 0.00000      |      |
| 18    | 1.85716      | -1.164E-15   |      |
| 19    | 1.85716      | -4.555E-16   |      |
| 20    | 1.85716      | -4.555E-16   |      |
| 21    | 1.85716      | -4.555E-16   |      |
| 22    | 1.85716      | -4.555E-16   |      |
| 23    | 1.85716      | -4.555E-16   |      |
| 24    | 1.85716      | -4.555E-16   |      |
| 25    | 1.85716      | -4.555E-16   |      |
| 26    | 1.85716      | -1.164E-15   |      |
| 27    | 1.85716      | -4.555E-16   |      |
| 28    | 1.85716      | -4.555E-16   |      |
| 29    | 1.85716      | -4.555E-16   |      |
| 30    | 1.85716      | -4.555E-16   |      |
| 31    | 1.85716      | -4.555E-16   |      |

Table: Joint Coordinates, Part 2 of 2

| Joint | GlobalY<br>m | GlobalZ<br>m | GUID |
|-------|--------------|--------------|------|
| 32    | 1.85716      | -4.555E-16   |      |
| 33    | 1.85716      | -4.555E-16   |      |
| 34    | 1.85716      | -1.164E-15   |      |
| 35    | 3.71432      | -9.311E-16   |      |
| 36    | 3.71432      | -2.228E-16   |      |
| 37    | 3.71432      | -2.228E-16   |      |
| 38    | 3.71432      | -2.228E-16   |      |
| 39    | 3.71432      | -2.228E-16   |      |
| 40    | 3.71432      | -2.228E-16   |      |
| 41    | 3.71432      | -2.228E-16   |      |
| 42    | 3.71432      | -2.228E-16   |      |
| 43    | 3.71432      | -9.311E-16   |      |
| 44    | 3.71432      | -2.228E-16   |      |
| 45    | 3.71432      | -2.228E-16   |      |
| 46    | 3.71432      | -2.228E-16   |      |
| 47    | 3.71432      | -2.228E-16   |      |
| 48    | 3.71432      | -2.228E-16   |      |
| 49    | 3.71432      | -2.228E-16   |      |
| 50    | 3.71432      | -2.228E-16   |      |
| 51    | 3.71432      | -9.311E-16   |      |
| 52    | 5.57148      | -6.984E-16   |      |
| 53    | 5.57148      | 9.857E-18    |      |
| 54    | 5.57148      | 9.857E-18    |      |
| 55    | 5.57148      | 9.857E-18    |      |
| 56    | 5.57148      | 9.857E-18    |      |
| 57    | 5.57148      | 9.857E-18    |      |
| 58    | 5.57148      | 9.857E-18    |      |
| 59    | 5.57148      | 9.857E-18    |      |
| 60    | 5.57148      | -6.984E-16   |      |
| 61    | 5.57148      | 9.857E-18    |      |
| 62    | 5.57148      | 9.857E-18    |      |
| 63    | 5.57148      | 9.857E-18    |      |
| 64    | 5.57148      | 9.857E-18    |      |
| 65    | 5.57148      | 9.857E-18    |      |
| 66    | 5.57148      | 9.857E-18    |      |
| 67    | 5.57148      | 9.857E-18    |      |
| 68    | 5.57148      | -6.984E-16   |      |
| 69    | 7.42864      | -4.657E-16   |      |
| 70    | 7.42864      | 2.425E-16    |      |
| 71    | 7.42864      | 2.425E-16    |      |
| 72    | 7.42864      | 2.425E-16    |      |
| 73    | 7.42864      | 2.425E-16    |      |
| 74    | 7.42864      | 2.425E-16    |      |
| 75    | 7.42864      | 2.425E-16    |      |
| 76    | 7.42864      | 2.425E-16    |      |
| 77    | 7.42864      | -4.657E-16   |      |
| 78    | 7.42864      | 2.425E-16    |      |
| 79    | 7.42864      | 2.425E-16    |      |
| 80    | 7.42864      | 2.425E-16    |      |
| 81    | 7.42864      | 2.425E-16    |      |
| 82    | 7.42864      | 2.425E-16    |      |
| 83    | 7.42864      | 2.425E-16    |      |
| 84    | 7.42864      | 2.425E-16    |      |
| 85    | 7.42864      | -4.657E-16   |      |
| 86    | 9.28580      | -2.330E-16   |      |
| 87    | 9.28580      | 4.752E-16    |      |
| 88    | 9.28580      | 4.752E-16    |      |
| 89    | 9.28580      | 4.752E-16    |      |
| 90    | 9.28580      | 4.752E-16    |      |

| Table: Joint Coordinates, Part 2 of 2 |              |              |      |
|---------------------------------------|--------------|--------------|------|
| Joint                                 | GlobalY<br>m | GlobalZ<br>m | GUID |
| 91                                    | 9.28580      | 4.752E-16    |      |
| 92                                    | 9.28580      | 4.752E-16    |      |
| 93                                    | 9.28580      | 4.752E-16    |      |
| 94                                    | 9.28580      | -2.330E-16   |      |
| 95                                    | 9.28580      | 4.752E-16    |      |
| 96                                    | 9.28580      | 4.752E-16    |      |
| 97                                    | 9.28580      | 4.752E-16    |      |
| 98                                    | 9.28580      | 4.752E-16    |      |
| 99                                    | 9.28580      | 4.752E-16    |      |
| 100                                   | 9.28580      | 4.752E-16    |      |
| 101                                   | 9.28580      | 4.752E-16    |      |
| 102                                   | 9.28580      | -2.330E-16   |      |
| 103                                   | 11.14296     | -3.551E-19   |      |
| 104                                   | 11.14296     | 7.079E-16    |      |
| 105                                   | 11.14296     | 7.079E-16    |      |
| 106                                   | 11.14296     | 7.079E-16    |      |
| 107                                   | 11.14296     | 7.079E-16    |      |
| 108                                   | 11.14296     | 7.079E-16    |      |
| 109                                   | 11.14296     | 7.079E-16    |      |
| 110                                   | 11.14296     | 7.079E-16    |      |
| 111                                   | 11.14296     | -3.551E-19   |      |
| 112                                   | 11.14296     | 7.079E-16    |      |
| 113                                   | 11.14296     | 7.079E-16    |      |
| 114                                   | 11.14296     | 7.079E-16    |      |
| 115                                   | 11.14296     | 7.079E-16    |      |
| 116                                   | 11.14296     | 7.079E-16    |      |
| 117                                   | 11.14296     | 7.079E-16    |      |
| 118                                   | 11.14296     | 7.079E-16    |      |
| 119                                   | 11.14296     | -3.551E-19   |      |
| 120                                   | 13.00012     | 2.323E-16    |      |
| 121                                   | 13.00012     | 9.406E-16    |      |
| 122                                   | 13.00012     | 9.406E-16    |      |
| 123                                   | 13.00012     | 9.406E-16    |      |
| 124                                   | 13.00012     | 9.406E-16    |      |
| 125                                   | 13.00012     | 9.406E-16    |      |
| 126                                   | 13.00012     | 9.406E-16    |      |
| 127                                   | 13.00012     | 9.406E-16    |      |
| 128                                   | 13.00012     | 2.323E-16    |      |
| 129                                   | 13.00012     | 9.406E-16    |      |
| 130                                   | 13.00012     | 9.406E-16    |      |
| 131                                   | 13.00012     | 9.406E-16    |      |
| 132                                   | 13.00012     | 9.406E-16    |      |
| 133                                   | 13.00012     | 9.406E-16    |      |
| 134                                   | 13.00012     | 9.406E-16    |      |
| 135                                   | 13.00012     | 9.406E-16    |      |
| 136                                   | 13.00012     | 2.323E-16    |      |

Table: Joint Loads - Force, Part 1 of 2

| Table: Joint Loads - Force, Part 1 of 2 |         |          |        |        |         |         |         |
|-----------------------------------------|---------|----------|--------|--------|---------|---------|---------|
| Joint                                   | LoadPat | CoordSys | F1     | F2     | F3      | M1      | M2      |
|                                         |         |          | Tonf   | Tonf   | Tonf    | Tonf-m  | Tonf-m  |
| 36                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.4300 | 0.00000 | 0.00000 |
| 37                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.8900 | 0.00000 | 0.00000 |
| 38                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1800 | 0.00000 | 0.00000 |
| 41                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.1500 | 0.00000 | 0.00000 |
| 42                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3500 | 0.00000 | 0.00000 |
| 44                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.6200 | 0.00000 | 0.00000 |

| Table: Joint Loads - Force, Part 1 of 2 |         |          |        |        |         |         |         |
|-----------------------------------------|---------|----------|--------|--------|---------|---------|---------|
| Joint                                   | LoadPat | CoordSys | F1     | F2     | F3      | M1      | M2      |
|                                         |         |          | Tonf   | Tonf   | Tonf    | Tonf-m  | Tonf-m  |
| 45                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8800 | 0.00000 | 0.00000 |
| 48                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.1500 | 0.00000 | 0.00000 |
| 49                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.9400 | 0.00000 | 0.00000 |
| 50                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.4100 | 0.00000 | 0.00000 |
| 53                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.4100 | 0.00000 | 0.00000 |
| 54                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.8900 | 0.00000 | 0.00000 |
| 55                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.2000 | 0.00000 | 0.00000 |
| 58                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8800 | 0.00000 | 0.00000 |
| 59                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.6200 | 0.00000 | 0.00000 |
| 61                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3100 | 0.00000 | 0.00000 |
| 62                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.1900 | 0.00000 | 0.00000 |
| 65                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1300 | 0.00000 | 0.00000 |
| 66                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.9400 | 0.00000 | 0.00000 |
| 67                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.4300 | 0.00000 | 0.00000 |
| 70                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.4300 | 0.00000 | 0.00000 |
| 71                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.8900 | 0.00000 | 0.00000 |
| 72                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1800 | 0.00000 | 0.00000 |
| 75                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.1500 | 0.00000 | 0.00000 |
| 76                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3500 | 0.00000 | 0.00000 |
| 78                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.6200 | 0.00000 | 0.00000 |
| 79                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8800 | 0.00000 | 0.00000 |
| 82                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.1500 | 0.00000 | 0.00000 |
| 83                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.9400 | 0.00000 | 0.00000 |
| 84                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.4100 | 0.00000 | 0.00000 |
| 87                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.4100 | 0.00000 | 0.00000 |
| 88                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.8900 | 0.00000 | 0.00000 |
| 89                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.2000 | 0.00000 | 0.00000 |
| 92                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8800 | 0.00000 | 0.00000 |
| 93                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.6200 | 0.00000 | 0.00000 |
| 95                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3100 | 0.00000 | 0.00000 |
| 96                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.1900 | 0.00000 | 0.00000 |
| 99                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1300 | 0.00000 | 0.00000 |
| 100                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.9400 | 0.00000 | 0.00000 |
| 101                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.4300 | 0.00000 | 0.00000 |

Table: Joint Loads - Force, Part 2 of 2

| Table: Joint Loads - Force, Part 2 of 2 |         |              |      |
|-----------------------------------------|---------|--------------|------|
| Joint                                   | LoadPat | M3<br>Tonf-m | GUID |
| 36                                      | 4C26TB  | 0.00000      |      |
| 37                                      | 4C26TB  | 0.00000      |      |
| 38                                      | 4C26TB  | 0.00000      |      |
| 41                                      | 4C26TB  | 0.00000      |      |
| 42                                      | 4C26TB  | 0.00000      |      |
| 44                                      | 4C26TB  | 0.00000      |      |
| 45                                      | 4C26TB  | 0.00000      |      |
| 48                                      | 4C26TB  | 0.00000      |      |
| 49                                      | 4C26TB  | 0.00000      |      |
| 50                                      | 4C26TB  | 0.00000      |      |
| 53                                      | 4C26TB  | 0.00000      |      |
| 54                                      | 4C26TB  | 0.00000      |      |
| 55                                      | 4C26TB  | 0.00000      |      |
| 58                                      | 4C26TB  | 0.00000      |      |
| 59                                      | 4C26TB  | 0.00000      |      |
| 61                                      | 4C26TB  | 0.00000      |      |
| 62                                      | 4C26TB  | 0.00000      |      |
| 65                                      | 4C26TB  | 0.00000      |      |

| Table: Joint Loads - Force, Part 2 of 2 |         |              |      |
|-----------------------------------------|---------|--------------|------|
| Joint                                   | LoadPat | M3<br>Tonf-m | GUID |
| 66                                      | 4C26TB  | 0.00000      |      |
| 67                                      | 4C26TB  | 0.00000      |      |
| 70                                      | 4C26TB  | 0.00000      |      |
| 71                                      | 4C26TB  | 0.00000      |      |
| 72                                      | 4C26TB  | 0.00000      |      |
| 75                                      | 4C26TB  | 0.00000      |      |
| 76                                      | 4C26TB  | 0.00000      |      |
| 78                                      | 4C26TB  | 0.00000      |      |
| 79                                      | 4C26TB  | 0.00000      |      |
| 82                                      | 4C26TB  | 0.00000      |      |
| 83                                      | 4C26TB  | 0.00000      |      |
| 84                                      | 4C26TB  | 0.00000      |      |
| 87                                      | 4C26TB  | 0.00000      |      |
| 88                                      | 4C26TB  | 0.00000      |      |
| 89                                      | 4C26TB  | 0.00000      |      |
| 92                                      | 4C26TB  | 0.00000      |      |
| 93                                      | 4C26TB  | 0.00000      |      |
| 95                                      | 4C26TB  | 0.00000      |      |
| 96                                      | 4C26TB  | 0.00000      |      |
| 99                                      | 4C26TB  | 0.00000      |      |
| 100                                     | 4C26TB  | 0.00000      |      |
| 101                                     | 4C26TB  | 0.00000      |      |

Table: Joint Restraint Assignments

| Table: Joint Restraint Assignments |     |     |     |    |    |    |
|------------------------------------|-----|-----|-----|----|----|----|
| Joint                              | U1  | U2  | U3  | R1 | R2 | R3 |
| 1                                  | Yes | Yes | Yes | No | No | No |
| 17                                 | No  | Yes | Yes | No | No | No |
| 18                                 | Yes | Yes | Yes | No | No | No |
| 34                                 | No  | Yes | Yes | No | No | No |
| 35                                 | Yes | Yes | Yes | No | No | No |
| 51                                 | No  | Yes | Yes | No | No | No |
| 52                                 | Yes | Yes | Yes | No | No | No |
| 68                                 | No  | Yes | Yes | No | No | No |
| 69                                 | Yes | Yes | Yes | No | No | No |
| 85                                 | No  | Yes | Yes | No | No | No |
| 86                                 | Yes | Yes | Yes | No | No | No |
| 102                                | No  | Yes | Yes | No | No | No |
| 103                                | Yes | Yes | Yes | No | No | No |
| 119                                | No  | Yes | Yes | No | No | No |
| 120                                | Yes | Yes | Yes | No | No | No |
| 136                                | No  | Yes | Yes | No | No | No |

Table: Load Case Definitions, Part 1 of 2

| Table: Load Case Definitions, Part 1 of 2 |           |             |           |          |            |            |          |
|-------------------------------------------|-----------|-------------|-----------|----------|------------|------------|----------|
| Case                                      | Type      | InitialCond | ModalCase | BaseCase | DesTypeOpt | DesignType | AutoType |
| DEAD                                      | LinStatic | Zero        |           |          | Prog Det   | DEAD       | None     |
| MODAL                                     | LinModal  | Zero        |           |          | Prog Det   | OTHER      | None     |
| 4C26TB                                    | LinStatic | Zero        |           |          | Prog Det   | LIVE       | None     |

Table: Load Case Definitions, Part 2 of 2

| Table: Load Case Definitions, Part 2 of 2 |         |            |      |       |
|-------------------------------------------|---------|------------|------|-------|
| Case                                      | RunCase | CaseStatus | GUID | Notes |
| DEAD                                      | No      | Not Run    |      |       |
| MODAL                                     | Yes     | Not Run    |      |       |
| 4C26TB                                    | Yes     | Not Run    |      |       |

Table: Material Properties 01 - General, Part 1 of 2

| Table: Material Properties 01 - General, Part 1 of 2 |          |           |                |          |      |
|------------------------------------------------------|----------|-----------|----------------|----------|------|
| Material                                             | Type     | SymType   | TempDepen<br>d | Color    | GUID |
| H25                                                  | Concrete | Isotropic | No             | 8454016  |      |
| H50                                                  | Concrete | Isotropic | No             | 10461087 |      |

Table: Material Properties 02 - Basic Mechanical Properties

| Table: Material Properties 02 - Basic Mechanical Properties |                       |                        |               |                |          |            |
|-------------------------------------------------------------|-----------------------|------------------------|---------------|----------------|----------|------------|
| Material                                                    | UnitWeight<br>Tonf/m3 | UnitMass<br>Tonf-s2/m4 | E1<br>Tonf/m2 | G12<br>Tonf/m2 | U12      | A1<br>1/C  |
| H25                                                         | 0.0000E+00            | 0.0000E+00             | 3271685.00    | 1258340.38     | 0.300000 | 1.1700E-05 |
| H50                                                         | 0.0000E+00            | 0.0000E+00             | 3948294.00    | 1518574.62     | 0.300000 | 1.1700E-05 |

Table: Material Properties 03b - Concrete Data, Part 1 of 2

| Table: Material Properties 03b - Concrete Data, Part 1 of 2 |               |          |            |           |          |          |            |                   |
|-------------------------------------------------------------|---------------|----------|------------|-----------|----------|----------|------------|-------------------|
| Material                                                    | Fc<br>Tonf/m2 | LtWtConc | SSCurveOpt | SSHysType | SFc      | SCap     | FinalSlope | FAngle<br>Degrees |
| H25                                                         | 2109.21       | No       | Mander     | Takeda    | 0.002000 | 0.005000 | -0.100000  | 0.000             |
| H50                                                         | 2109.21       | No       | Mander     | Takeda    | 0.002000 | 0.005000 | -0.100000  | 0.000             |

Table: Material Properties 03b - Concrete Data, Part 2 of 2

| Table: Material Properties<br>03b - Concrete Data, Part 2<br>of 2 |                   |
|-------------------------------------------------------------------|-------------------|
| Material                                                          | DAngle<br>Degrees |
| H25                                                               | 0.000             |
| H50                                                               | 0.000             |

Table: Material Properties 06 - Damping Parameters

| Table: Material Properties 06 - Damping Parameters |            |                  |                 |                   |          |
|----------------------------------------------------|------------|------------------|-----------------|-------------------|----------|
| Material                                           | ModalRatio | VisMass<br>1/Sec | VisStiff<br>Sec | HysMass<br>1/Sec2 | HysStiff |
| H25                                                | 0.0000     | 0.0000           | 0.0000          | 0.0000            | 0.000000 |
| H50                                                | 0.0000     | 0.0000           | 0.0000          | 0.0000            | 0.000000 |

Table: Element Forces - Frames, Part 1 of 2

| Table: Element Forces - Frames, Part 1 of 2 |              |            |           |            |           |        |            |            |          |          |            |            |  |
|---------------------------------------------|--------------|------------|-----------|------------|-----------|--------|------------|------------|----------|----------|------------|------------|--|
| Frame                                       | Station<br>m | OutputCase | CaseType  | P          |           | V2     |            | V3         |          | T        |            | M2         |  |
|                                             |              |            |           | Tonf       |           | Tonf   |            | Tonf       |          | Tonf-m   |            | Tonf-m     |  |
| 1                                           | 0.00000      | 4C26TB     | LinStatic | 2.316E-13  |           | 0.3143 |            | -5.570E-14 |          | -0.39384 |            | -6.667E-14 |  |
| 1                                           | 0.48743      | 4C26TB     | LinStatic | 2.316E-13  |           | 0.3143 |            | -5.570E-14 |          | -0.39384 |            | -3.952E-14 |  |
| 1                                           | 0.97485      | 4C26TB     | LinStatic | 2.316E-13  |           | 0.3143 |            | -5.570E-14 |          | -0.39384 |            | -1.237E-14 |  |
| 2                                           | 0.00000      | 4C26TB     | LinStatic | 1.457E-13  |           | 0.1698 |            | -5.685E-14 |          | -0.50127 |            | -6.850E-14 |  |
| 2                                           | 0.48743      | 4C26TB     | LinStatic | 1.457E-13  |           | 0.1698 |            | -5.685E-14 |          | -0.50127 |            | -4.079E-14 |  |
| 2                                           | 0.97485      | 4C26TB     | LinStatic | 1.457E-13  |           | 0.1698 |            | -5.685E-14 |          | -0.50127 |            | -1.308E-14 |  |
| 3                                           | 0.00000      | 4C26TB     | LinStatic | 9.272E-14  |           | 0.1079 |            | -5.519E-14 |          | -0.50320 |            | -4.489E-14 |  |
| 3                                           | 0.48743      | 4C26TB     | LinStatic | 9.272E-14  |           | 0.1079 |            | -5.519E-14 |          | -0.50320 |            | -1.799E-14 |  |
| 3                                           | 0.97485      | 4C26TB     | LinStatic | 9.272E-14  |           | 0.1079 |            | -5.519E-14 |          | -0.50320 |            | 8.908E-15  |  |
| 4                                           | 0.00000      | 4C26TB     | LinStatic | 5.558E-14  |           | 0.0718 |            | -5.167E-14 |          | -0.45727 |            | -1.405E-14 |  |
| 4                                           | 0.48743      | 4C26TB     | LinStatic | 5.558E-14  |           | 0.0718 |            | -5.167E-14 |          | -0.45727 |            | 1.114E-14  |  |
| 4                                           | 0.97485      | 4C26TB     | LinStatic | 5.558E-14  |           | 0.0718 |            | -5.167E-14 |          | -0.45727 |            | 3.632E-14  |  |
| 5                                           | 0.00000      | 4C26TB     | LinStatic | 2.735E-14  |           | 0.0475 |            | -4.665E-14 |          | -0.38299 |            | 1.666E-14  |  |
| 5                                           | 0.48743      | 4C26TB     | LinStatic | 2.735E-14  |           | 0.0475 |            | -4.665E-14 |          | -0.38299 |            | 3.940E-14  |  |
| 5                                           | 0.97485      | 4C26TB     | LinStatic | 2.735E-14  |           | 0.0475 |            | -4.665E-14 |          | -0.38299 |            | 6.214E-14  |  |
| 6                                           | 0.00000      | 4C26TB     | LinStatic | 5.174E-15  |           | 0.0309 |            | -3.999E-14 |          | -0.28954 |            | 4.434E-14  |  |
| 6                                           | 0.48743      | 4C26TB     | LinStatic | 5.174E-15  |           | 0.0309 |            | -3.999E-14 |          | -0.28954 |            | 6.383E-14  |  |
| 6                                           | 0.97485      | 4C26TB     | LinStatic | 5.174E-15  |           | 0.0309 |            | -3.999E-14 |          | -0.28954 |            | 8.332E-14  |  |
| 7                                           | 0.00000      | 4C26TB     | LinStatic | -1.194E-14 |           | 0.0190 |            | -3.102E-14 |          | -0.18324 |            | 6.752E-14  |  |
| 7                                           | 0.48743      | 4C26TB     | LinStatic | -1.194E-14 |           | 0.0190 |            | -3.102E-14 |          | -0.18324 |            | 8.263E-14  |  |
| 7                                           | 0.97485      | 4C26TB     | LinStatic | -1.194E-14 |           | 0.0190 |            | -3.102E-14 |          | -0.18324 |            | 9.775E-14  |  |
| 8                                           | 0.00000      | 4C26TB     | LinStatic | -2.388E-14 |           | 0.0096 |            | -1.821E-14 |          | -0.06922 |            | 8.399E-14  |  |
| 8                                           | 0.48743      | 4C26TB     | LinStatic | -2.388E-14 |           | 0.0096 |            | -1.821E-14 |          | -0.06922 |            | 9.287E-14  |  |
| 8                                           | 0.97485      | 4C26TB     | LinStatic | -2.388E-14 |           | 0.0096 |            | -1.821E-14 |          | -0.06922 |            | 1.017E-13  |  |
| 9                                           | 0.00000      | 4C26TB     | LinStatic | -3.353E-14 | 6.699E-04 |        | -2.611E-14 |            | 0.04802  |          | 8.458E-14  |            |  |
| 9                                           | 0.48743      | 4C26TB     | LinStatic | -3.353E-14 | 6.699E-04 |        | -2.611E-14 |            | 0.04802  |          | 9.731E-14  |            |  |
| 9                                           | 0.97485      | 4C26TB     | LinStatic | -3.353E-14 | 6.699E-04 |        | -2.611E-14 |            | 0.04802  |          | 1.100E-13  |            |  |
| 10                                          | 0.00000      | 4C26TB     | LinStatic | -3.443E-14 | -0.0106   |        | -1.336E-14 |            | 0.16361  |          | 9.377E-14  |            |  |
| 10                                          | 0.48743      | 4C26TB     | LinStatic | -3.443E-14 | -0.0106   |        | -1.336E-14 |            | 0.16361  |          | 1.003E-13  |            |  |
| 10                                          | 0.97485      | 4C26TB     | LinStatic | -3.443E-14 | -0.0106   |        | -1.336E-14 |            | 0.16361  |          | 1.068E-13  |            |  |
| 11                                          | 0.00000      | 4C26TB     | LinStatic | -3.200E-14 | -0.0266   |        | -4.818E-15 |            | 0.27284  |          | 9.179E-14  |            |  |
| 11                                          | 0.48743      | 4C26TB     | LinStatic | -3.200E-14 | -0.0266   |        | -4.818E-15 |            | 0.27284  |          | 9.414E-14  |            |  |
| 11                                          | 0.97485      | 4C26TB     | LinStatic | -3.200E-14 | -0.0266   |        | -4.818E-15 |            | 0.27284  |          | 9.649E-14  |            |  |
| 12                                          | 0.00000      | 4C26TB     | LinStatic | -2.704E-14 | -0.0494   |        | 1.131E-15  |            | 0.37069  |          | 8.398E-14  |            |  |
| 12                                          | 0.48743      | 4C26TB     | LinStatic | -2.704E-14 | -0.0494   |        | 1.131E-15  |            | 0.37069  |          | 8.343E-14  |            |  |
| 12                                          | 0.97485      | 4C26TB     | LinStatic | -2.704E-14 | -0.0494   |        | 1.131E-15  |            | 0.37069  |          | 8.288E-14  |            |  |
| 13                                          | 0.00000      | 4C26TB     | LinStatic | -2.020E-14 | -0.0824   |        | 5.681E-15  |            | 0.45058  |          | 7.337E-14  |            |  |
| 13                                          | 0.48743      | 4C26TB     | LinStatic | -2.020E-14 | -0.0824   |        | 5.681E-15  |            | 0.45058  |          | 7.060E-14  |            |  |
| 13                                          | 0.97485      | 4C26TB     | LinStatic | -2.020E-14 | -0.0824   |        | 5.681E-15  |            | 0.45058  |          | 6.783E-14  |            |  |
| 14                                          | 0.00000      | 4C26TB     | LinStatic | -1.191E-14 | -0.1314   |        | 1.005E-14  |            | 0.50242  |          | 6.251E-14  |            |  |
| 14                                          | 0.48743      | 4C26TB     | LinStatic | -1.191E-14 | -0.1314   |        | 1.005E-14  |            | 0.50242  |          | 5.761E-14  |            |  |
| 14                                          | 0.97485      | 4C26TB     | LinStatic | -1.191E-14 | -0.1314   |        | 1.005E-14  |            | 0.50242  |          | 5.271E-14  |            |  |
| 15                                          | 0.00000      | 4C26TB     | LinStatic | -2.076E-15 | -0.2127   |        | 1.615E-14  |            | 0.50510  |          | 5.431E-14  |            |  |
| 15                                          | 0.48743      | 4C26TB     | LinStatic | -2.076E-15 | -0.2127   |        | 1.615E-14  |            | 0.50510  |          | 4.644E-14  |            |  |
| 15                                          | 0.97485      | 4C26TB     | LinStatic | -2.076E-15 | -0.2127   |        | 1.615E-14  |            | 0.50510  |          | 3.857E-14  |            |  |
| 16                                          | 0.00000      | 4C26TB     | LinStatic | 1.123E-14  | -0.3847   |        | 2.759E-14  |            | 0.39899  |          | 5.167E-14  |            |  |
| 16                                          | 0.48743      | 4C26TB     | LinStatic | 1.123E-14  | -0.3847   |        | 2.759E-14  |            | 0.39899  |          | 3.822E-14  |            |  |
| 16                                          | 0.97485      | 4C26TB     | LinStatic | 1.123E-14  | -0.3847   |        | 2.759E-14  |            | 0.39899  |          | 2.477E-14  |            |  |
| 17                                          | 0.00000      | 4C26TB     | LinStatic | -6.757E-14 | -2.9298   |        | -4.087E-14 |            | -0.88499 |          | -7.292E-14 |            |  |
| 17                                          | 0.48743      | 4C26TB     | LinStatic | -6.757E-14 | -2.9298   |        | -4.087E-14 |            | -0.88499 |          | -5.300E-14 |            |  |
| 17                                          | 0.97485      | 4C26TB     | LinStatic | -6.757E-14 | -2.9298   |        | -4.087E-14 |            | -0.88499 |          | -3.308E-14 |            |  |
| 18                                          | 0.00000      | 4C26TB     | LinStatic | -1.006E-15 | -2.7955   |        | -4.070E-14 |            | -1.10164 |          | -8.975E-14 |            |  |
| 18                                          | 0.48743      | 4C26TB     | LinStatic | -1.006E-15 | -2.7955   |        | -4.070E-14 |            | -1.10164 |          | -6.991E-14 |            |  |
| 18                                          | 0.97485      | 4C26TB     | LinStatic | -1.006E-15 | -2.7955   |        | -4.070E-14 |            | -1.10164 |          | -5.007E-14 |            |  |

| Table: Element Forces - Frames, Part 1 of 2 |              |            |           |            |          |            |        |          |        |            |  |    |  |
|---------------------------------------------|--------------|------------|-----------|------------|----------|------------|--------|----------|--------|------------|--|----|--|
| Frame                                       | Station<br>m | OutputCase | CaseType  | P          |          | V2         |        | V3       |        | T          |  | M2 |  |
|                                             |              |            |           | Tonf       | Tonf     | Tonf       | Tonf-m | Tonf-m   | Tonf-m |            |  |    |  |
| 19                                          | 0.00000      | 4C26TB     | LinStatic | 3.028E-14  | -2.5103  | -3.938E-14 |        | -1.06989 |        | -8.668E-14 |  |    |  |
| 19                                          | 0.48743      | 4C26TB     | LinStatic | 3.028E-14  | -2.5103  | -3.938E-14 |        | -1.06989 |        | -6.749E-14 |  |    |  |
| 19                                          | 0.97485      | 4C26TB     | LinStatic | 3.028E-14  | -2.5103  | -3.938E-14 |        | -1.06989 |        | -4.829E-14 |  |    |  |
| 20                                          | 0.00000      | 4C26TB     | LinStatic | 4.666E-14  | -2.1282  | -3.702E-14 |        | -0.93951 |        | -7.586E-14 |  |    |  |
| 20                                          | 0.48743      | 4C26TB     | LinStatic | 4.666E-14  | -2.1282  | -3.702E-14 |        | -0.93951 |        | -5.782E-14 |  |    |  |
| 20                                          | 0.97485      | 4C26TB     | LinStatic | 4.666E-14  | -2.1282  | -3.702E-14 |        | -0.93951 |        | -3.977E-14 |  |    |  |
| 21                                          | 0.00000      | 4C26TB     | LinStatic | 5.573E-14  | -1.6965  | -3.417E-14 |        | -0.77043 |        | -6.309E-14 |  |    |  |
| 21                                          | 0.48743      | 4C26TB     | LinStatic | 5.573E-14  | -1.6965  | -3.417E-14 |        | -0.77043 |        | -4.644E-14 |  |    |  |
| 21                                          | 0.97485      | 4C26TB     | LinStatic | 5.573E-14  | -1.6965  | -3.417E-14 |        | -0.77043 |        | -2.978E-14 |  |    |  |
| 22                                          | 0.00000      | 4C26TB     | LinStatic | 6.059E-14  | -1.2347  | -3.168E-14 |        | -0.57985 |        | -5.063E-14 |  |    |  |
| 22                                          | 0.48743      | 4C26TB     | LinStatic | 6.059E-14  | -1.2347  | -3.168E-14 |        | -0.57985 |        | -3.518E-14 |  |    |  |
| 22                                          | 0.97485      | 4C26TB     | LinStatic | 6.059E-14  | -1.2347  | -3.168E-14 |        | -0.57985 |        | -1.974E-14 |  |    |  |
| 23                                          | 0.00000      | 4C26TB     | LinStatic | 6.236E-14  | -0.7493  | -3.058E-14 |        | -0.37200 |        | -3.801E-14 |  |    |  |
| 23                                          | 0.48743      | 4C26TB     | LinStatic | 6.236E-14  | -0.7493  | -3.058E-14 |        | -0.37200 |        | -2.310E-14 |  |    |  |
| 23                                          | 0.97485      | 4C26TB     | LinStatic | 6.236E-14  | -0.7493  | -3.058E-14 |        | -0.37200 |        | -8.193E-15 |  |    |  |
| 24                                          | 0.00000      | 4C26TB     | LinStatic | 6.167E-14  | -0.2488  | -3.219E-14 |        | -0.15238 |        | -2.122E-14 |  |    |  |
| 24                                          | 0.48743      | 4C26TB     | LinStatic | 6.167E-14  | -0.2488  | -3.219E-14 |        | -0.15238 |        | -5.526E-15 |  |    |  |
| 24                                          | 0.97485      | 4C26TB     | LinStatic | 6.167E-14  | -0.2488  | -3.219E-14 |        | -0.15238 |        | 1.017E-14  |  |    |  |
| 25                                          | 0.00000      | 4C26TB     | LinStatic | 6.005E-14  | 0.2534   | 1.053E-14  |        | 0.06962  |        | 2.618E-15  |  |    |  |
| 25                                          | 0.48743      | 4C26TB     | LinStatic | 6.005E-14  | 0.2534   | 1.053E-14  |        | 0.06962  |        | -2.512E-15 |  |    |  |
| 25                                          | 0.97485      | 4C26TB     | LinStatic | 6.005E-14  | 0.2534   | 1.053E-14  |        | 0.06962  |        | -7.643E-15 |  |    |  |
| 26                                          | 0.00000      | 4C26TB     | LinStatic | 5.903E-14  | 0.7536   | 8.654E-15  |        | 0.29149  |        | -4.547E-15 |  |    |  |
| 26                                          | 0.48743      | 4C26TB     | LinStatic | 5.903E-14  | 0.7536   | 8.654E-15  |        | 0.29149  |        | -8.765E-15 |  |    |  |
| 26                                          | 0.97485      | 4C26TB     | LinStatic | 5.903E-14  | 0.7536   | 8.654E-15  |        | 0.29149  |        | -1.298E-14 |  |    |  |
| 27                                          | 0.00000      | 4C26TB     | LinStatic | 5.648E-14  | 1.2424   | 7.774E-15  |        | 0.50630  |        | -7.288E-15 |  |    |  |
| 27                                          | 0.48743      | 4C26TB     | LinStatic | 5.648E-14  | 1.2424   | 7.774E-15  |        | 0.50630  |        | -1.108E-14 |  |    |  |
| 27                                          | 0.97485      | 4C26TB     | LinStatic | 5.648E-14  | 1.2424   | 7.774E-15  |        | 0.50630  |        | -1.487E-14 |  |    |  |
| 28                                          | 0.00000      | 4C26TB     | LinStatic | 5.217E-14  | 1.7071   | 6.849E-15  |        | 0.70493  |        | -8.672E-15 |  |    |  |
| 28                                          | 0.48743      | 4C26TB     | LinStatic | 5.217E-14  | 1.7071   | 6.849E-15  |        | 0.70493  |        | -1.201E-14 |  |    |  |
| 28                                          | 0.97485      | 4C26TB     | LinStatic | 5.217E-14  | 1.7071   | 6.849E-15  |        | 0.70493  |        | -1.535E-14 |  |    |  |
| 29                                          | 0.00000      | 4C26TB     | LinStatic | 4.654E-14  | 2.1414   | 5.020E-15  |        | 0.88184  |        | -9.711E-15 |  |    |  |
| 29                                          | 0.48743      | 4C26TB     | LinStatic | 4.654E-14  | 2.1414   | 5.020E-15  |        | 0.88184  |        | -1.216E-14 |  |    |  |
| 29                                          | 0.97485      | 4C26TB     | LinStatic | 4.654E-14  | 2.1414   | 5.020E-15  |        | 0.88184  |        | -1.460E-14 |  |    |  |
| 30                                          | 0.00000      | 4C26TB     | LinStatic | 3.998E-14  | 2.5329   | 1.344E-15  |        | 1.02145  |        | -1.012E-14 |  |    |  |
| 30                                          | 0.48743      | 4C26TB     | LinStatic | 3.998E-14  | 2.5329   | 1.344E-15  |        | 1.02145  |        | -1.078E-14 |  |    |  |
| 30                                          | 0.97485      | 4C26TB     | LinStatic | 3.998E-14  | 2.5329   | 1.344E-15  |        | 1.02145  |        | -1.143E-14 |  |    |  |
| 31                                          | 0.00000      | 4C26TB     | LinStatic | 3.298E-14  | 2.8469   | -5.547E-15 |        | 1.06877  |        | -8.187E-15 |  |    |  |
| 31                                          | 0.48743      | 4C26TB     | LinStatic | 3.298E-14  | 2.8469   | -5.547E-15 |        | 1.06877  |        | -5.483E-15 |  |    |  |
| 31                                          | 0.97485      | 4C26TB     | LinStatic | 3.298E-14  | 2.8469   | -5.547E-15 |        | 1.06877  |        | -2.780E-15 |  |    |  |
| 32                                          | 0.00000      | 4C26TB     | LinStatic | 2.400E-14  | 3.0315   | -1.829E-14 |        | 0.87203  |        | 1.040E-15  |  |    |  |
| 32                                          | 0.48743      | 4C26TB     | LinStatic | 2.400E-14  | 3.0315   | -1.829E-14 |        | 0.87203  |        | 9.958E-15  |  |    |  |
| 32                                          | 0.97485      | 4C26TB     | LinStatic | 2.400E-14  | 3.0315   | -1.829E-14 |        | 0.87203  |        | 1.888E-14  |  |    |  |
| 33                                          | 0.00000      | 4C26TB     | LinStatic | -8.459E-14 | -10.3713 | -3.492E-15 |        | -0.77906 |        | -1.188E-14 |  |    |  |
| 33                                          | 0.48743      | 4C26TB     | LinStatic | -8.459E-14 | -10.3713 | -3.492E-15 |        | -0.77906 |        | -1.018E-14 |  |    |  |
| 33                                          | 0.97485      | 4C26TB     | LinStatic | -8.459E-14 | -10.3713 | -3.492E-15 |        | -0.77906 |        | -8.477E-15 |  |    |  |
| 34                                          | 0.00000      | 4C26TB     | LinStatic | -5.890E-14 | -7.0427  | -1.434E-14 |        | -0.97936 |        | -2.626E-14 |  |    |  |
| 34                                          | 0.48743      | 4C26TB     | LinStatic | -5.890E-14 | -7.0427  | -1.434E-14 |        | -0.97936 |        | -1.927E-14 |  |    |  |
| 34                                          | 0.97485      | 4C26TB     | LinStatic | -5.890E-14 | -7.0427  | -1.434E-14 |        | -0.97936 |        | -1.228E-14 |  |    |  |
| 35                                          | 0.00000      | 4C26TB     | LinStatic | -3.996E-14 | -4.4185  | -1.993E-14 |        | -0.96073 |        | -2.727E-14 |  |    |  |
| 35                                          | 0.48743      | 4C26TB     | LinStatic | -3.996E-14 | -4.4185  | -1.993E-14 |        | -0.96073 |        | -1.755E-14 |  |    |  |
| 35                                          | 0.97485      | 4C26TB     | LinStatic | -3.996E-14 | -4.4185  | -1.993E-14 |        | -0.96073 |        | -7.839E-15 |  |    |  |
| 36                                          | 0.00000      | 4C26TB     | LinStatic | -2.325E-14 | -1.5918  | -2.275E-14 |        | -0.85463 |        | -2.298E-14 |  |    |  |
| 36                                          | 0.48743      | 4C26TB     | LinStatic | -2.325E-14 | -1.5918  | -2.275E-14 |        | -0.85463 |        | -1.189E-14 |  |    |  |
| 36                                          | 0.97485      | 4C26TB     | LinStatic | -2.325E-14 | -1.5918  | -2.275E-14 |        | -0.85463 |        | -7.955E-16 |  |    |  |
| 37                                          | 0.00000      | 4C26TB     | LinStatic | -9.287E-15 | -1.9745  | -2.458E-14 |        | -0.71257 |        | -1.696E-14 |  |    |  |
| 37                                          | 0.48743      | 4C26TB     | LinStatic | -9.287E-15 | -1.9745  | -2.458E-14 |        | -0.71257 |        | -4.978E-15 |  |    |  |
| 37                                          | 0.97485      | 4C26TB     | LinStatic | -9.287E-15 | -1.9745  | -2.458E-14 |        | -0.71257 |        | 7.003E-15  |  |    |  |
| 38                                          | 0.00000      | 4C26TB     | LinStatic | 2.062E-15  | -2.3667  | -2.682E-14 |        | -0.55037 |        | -9.959E-15 |  |    |  |
| 38                                          | 0.48743      | 4C26TB     | LinStatic | 2.062E-15  | -2.3667  | -2.682E-14 |        | -0.55037 |        | 3.116E-15  |  |    |  |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 38    | 0.97485      | 4C26TB     | LinStatic | 2.062E-15  | -2.3667    | -2.682E-14 | -0.55037    | 1.619E-14    |
| 39    | 0.00000      | 4C26TB     | LinStatic | 1.078E-14  | -1.6147    | -3.108E-14 | -0.37173    | -1.428E-15   |
| 39    | 0.48743      | 4C26TB     | LinStatic | 1.078E-14  | -1.6147    | -3.108E-14 | -0.37173    | 1.372E-14    |
| 39    | 0.97485      | 4C26TB     | LinStatic | 1.078E-14  | -1.6147    | -3.108E-14 | -0.37173    | 2.887E-14    |
| 40    | 0.00000      | 4C26TB     | LinStatic | 1.625E-14  | 0.3334     | -3.953E-14 | -0.18338    | 1.297E-14    |
| 40    | 0.48743      | 4C26TB     | LinStatic | 1.625E-14  | 0.3334     | -3.953E-14 | -0.18338    | 3.224E-14    |
| 40    | 0.97485      | 4C26TB     | LinStatic | 1.625E-14  | 0.3334     | -3.953E-14 | -0.18338    | 5.150E-14    |
| 41    | 0.00000      | 4C26TB     | LinStatic | 2.106E-14  | -0.0607    | 1.975E-14  | 0.00818     | 4.596E-14    |
| 41    | 0.48743      | 4C26TB     | LinStatic | 2.106E-14  | -0.0607    | 1.975E-14  | 0.00818     | 3.633E-14    |
| 41    | 0.97485      | 4C26TB     | LinStatic | 2.106E-14  | -0.0607    | 1.975E-14  | 0.00818     | 2.670E-14    |
| 42    | 0.00000      | 4C26TB     | LinStatic | 2.108E-14  | 1.1723     | 1.027E-14  | 0.20149     | 2.662E-14    |
| 42    | 0.48743      | 4C26TB     | LinStatic | 2.108E-14  | 1.1723     | 1.027E-14  | 0.20149     | 2.161E-14    |
| 42    | 0.97485      | 4C26TB     | LinStatic | 2.108E-14  | 1.1723     | 1.027E-14  | 0.20149     | 1.661E-14    |
| 43    | 0.00000      | 4C26TB     | LinStatic | 1.981E-14  | 2.6753     | 4.731E-15  | 0.38892     | 1.772E-14    |
| 43    | 0.48743      | 4C26TB     | LinStatic | 1.981E-14  | 2.6753     | 4.731E-15  | 0.38892     | 1.541E-14    |
| 43    | 0.97485      | 4C26TB     | LinStatic | 1.981E-14  | 2.6753     | 4.731E-15  | 0.38892     | 1.310E-14    |
| 44    | 0.00000      | 4C26TB     | LinStatic | 1.731E-14  | 2.3195     | 8.772E-16  | 0.56443     | 1.211E-14    |
| 44    | 0.48743      | 4C26TB     | LinStatic | 1.731E-14  | 2.3195     | 8.772E-16  | 0.56443     | 1.169E-14    |
| 44    | 0.97485      | 4C26TB     | LinStatic | 1.731E-14  | 2.3195     | 8.772E-16  | 0.56443     | 1.126E-14    |
| 45    | 0.00000      | 4C26TB     | LinStatic | 1.360E-14  | 1.9881     | -2.852E-15 | 0.72401     | 7.363E-15    |
| 45    | 0.48743      | 4C26TB     | LinStatic | 1.360E-14  | 1.9881     | -2.852E-15 | 0.72401     | 8.753E-15    |
| 45    | 0.97485      | 4C26TB     | LinStatic | 1.360E-14  | 1.9881     | -2.852E-15 | 0.72401     | 1.014E-14    |
| 46    | 0.00000      | 4C26TB     | LinStatic | 8.371E-15  | 3.8422     | -7.887E-15 | 0.85478     | 2.097E-15    |
| 46    | 0.48743      | 4C26TB     | LinStatic | 8.371E-15  | 3.8422     | -7.887E-15 | 0.85478     | 5.942E-15    |
| 46    | 0.97485      | 4C26TB     | LinStatic | 8.371E-15  | 3.8422     | -7.887E-15 | 0.85478     | 9.787E-15    |
| 47    | 0.00000      | 4C26TB     | LinStatic | 7.705E-16  | 6.5572     | -1.607E-14 | 0.90517     | -3.519E-15   |
| 47    | 0.48743      | 4C26TB     | LinStatic | 7.705E-16  | 6.5572     | -1.607E-14 | 0.90517     | 4.313E-15    |
| 47    | 0.97485      | 4C26TB     | LinStatic | 7.705E-16  | 6.5572     | -1.607E-14 | 0.90517     | 1.214E-14    |
| 48    | 0.00000      | 4C26TB     | LinStatic | -1.892E-14 | 10.8868    | -3.020E-14 | 0.74298     | -5.647E-15   |
| 48    | 0.48743      | 4C26TB     | LinStatic | -1.892E-14 | 10.8868    | -3.020E-14 | 0.74298     | 9.075E-15    |
| 48    | 0.97485      | 4C26TB     | LinStatic | -1.892E-14 | 10.8868    | -3.020E-14 | 0.74298     | 2.380E-14    |
| 49    | 0.00000      | 4C26TB     | LinStatic | -1.132E-13 | -12.9555   | -1.345E-15 | -0.27594    | 1.056E-14    |
| 49    | 0.48743      | 4C26TB     | LinStatic | -1.132E-13 | -12.9555   | -1.345E-15 | -0.27594    | 1.122E-14    |
| 49    | 0.97485      | 4C26TB     | LinStatic | -1.132E-13 | -12.9555   | -1.345E-15 | -0.27594    | 1.187E-14    |
| 50    | 0.00000      | 4C26TB     | LinStatic | -8.657E-14 | -8.4550    | -6.268E-16 | -0.36754    | 1.281E-14    |
| 50    | 0.48743      | 4C26TB     | LinStatic | -8.657E-14 | -8.4550    | -6.268E-16 | -0.36754    | 1.312E-14    |
| 50    | 0.97485      | 4C26TB     | LinStatic | -8.657E-14 | -8.4550    | -6.268E-16 | -0.36754    | 1.343E-14    |
| 51    | 0.00000      | 4C26TB     | LinStatic | -7.054E-14 | -5.5324    | -1.461E-15 | -0.38642    | 1.788E-14    |
| 51    | 0.48743      | 4C26TB     | LinStatic | -7.054E-14 | -5.5324    | -1.461E-15 | -0.38642    | 1.860E-14    |
| 51    | 0.97485      | 4C26TB     | LinStatic | -7.054E-14 | -5.5324    | -1.461E-15 | -0.38642    | 1.931E-14    |
| 52    | 0.00000      | 4C26TB     | LinStatic | -5.536E-14 | -3.3236    | -2.682E-15 | -0.36901    | 2.338E-14    |
| 52    | 0.48743      | 4C26TB     | LinStatic | -5.536E-14 | -3.3236    | -2.682E-15 | -0.36901    | 2.468E-14    |
| 52    | 0.97485      | 4C26TB     | LinStatic | -5.536E-14 | -3.3236    | -2.682E-15 | -0.36901    | 2.599E-14    |
| 53    | 0.00000      | 4C26TB     | LinStatic | -4.124E-14 | -3.3449    | -3.916E-15 | -0.33021    | 2.871E-14    |
| 53    | 0.48743      | 4C26TB     | LinStatic | -4.124E-14 | -3.3449    | -3.916E-15 | -0.33021    | 3.062E-14    |
| 53    | 0.97485      | 4C26TB     | LinStatic | -4.124E-14 | -3.3449    | -3.916E-15 | -0.33021    | 3.253E-14    |
| 54    | 0.00000      | 4C26TB     | LinStatic | -2.838E-14 | -3.3970    | -5.042E-15 | -0.27839    | 3.384E-14    |
| 54    | 0.48743      | 4C26TB     | LinStatic | -2.838E-14 | -3.3970    | -5.042E-15 | -0.27839    | 3.630E-14    |
| 54    | 0.97485      | 4C26TB     | LinStatic | -2.838E-14 | -3.3970    | -5.042E-15 | -0.27839    | 3.876E-14    |
| 55    | 0.00000      | 4C26TB     | LinStatic | -1.693E-14 | -1.5935    | -5.749E-15 | -0.21699    | 3.847E-14    |
| 55    | 0.48743      | 4C26TB     | LinStatic | -1.693E-14 | -1.5935    | -5.749E-15 | -0.21699    | 4.127E-14    |
| 55    | 0.97485      | 4C26TB     | LinStatic | -1.693E-14 | -1.5935    | -5.749E-15 | -0.21699    | 4.407E-14    |
| 56    | 0.00000      | 4C26TB     | LinStatic | -7.302E-15 | -0.0613    | -5.080E-15 | -0.14780    | 4.230E-14    |
| 56    | 0.48743      | 4C26TB     | LinStatic | -7.302E-15 | -0.0613    | -5.080E-15 | -0.14780    | 4.477E-14    |
| 56    | 0.97485      | 4C26TB     | LinStatic | -7.302E-15 | -0.0613    | -5.080E-15 | -0.14780    | 4.725E-14    |
| 57    | 0.00000      | 4C26TB     | LinStatic | -3.629E-15 | -0.1601    | 2.732E-15  | -0.07439    | 5.323E-14    |
| 57    | 0.48743      | 4C26TB     | LinStatic | -3.629E-15 | -0.1601    | 2.732E-15  | -0.07439    | 5.190E-14    |
| 57    | 0.97485      | 4C26TB     | LinStatic | -3.629E-15 | -0.1601    | 2.732E-15  | -0.07439    | 5.057E-14    |
| 58    | 0.00000      | 4C26TB     | LinStatic | -2.793E-15 | 2.0471     | 2.287E-15  | 0.00017     | 4.586E-14    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2       | V3         | T        | M2        |
|-------|---------|------------|-----------|------------|----------|------------|----------|-----------|
|       | m       |            |           | Tonf       | Tonf     | Tonf       | Tonf-m   | Tonf-m    |
| 58    | 0.48743 | 4C26TB     | LinStatic | -2.793E-15 | 2.0471   | 2.287E-15  | 0.00017  | 4.475E-14 |
| 58    | 0.97485 | 4C26TB     | LinStatic | -2.793E-15 | 2.0471   | 2.287E-15  | 0.00017  | 4.363E-14 |
| 59    | 0.00000 | 4C26TB     | LinStatic | -3.804E-15 | 3.1424   | 4.345E-16  | 0.07376  | 3.946E-14 |
| 59    | 0.48743 | 4C26TB     | LinStatic | -3.804E-15 | 3.1424   | 4.345E-16  | 0.07376  | 3.925E-14 |
| 59    | 0.97485 | 4C26TB     | LinStatic | -3.804E-15 | 3.1424   | 4.345E-16  | 0.07376  | 3.904E-14 |
| 60    | 0.00000 | 4C26TB     | LinStatic | -5.614E-15 | 3.0554   | -1.756E-15 | 0.14180  | 3.377E-14 |
| 60    | 0.48743 | 4C26TB     | LinStatic | -5.614E-15 | 3.0554   | -1.756E-15 | 0.14180  | 3.462E-14 |
| 60    | 0.97485 | 4C26TB     | LinStatic | -5.614E-15 | 3.0554   | -1.756E-15 | 0.14180  | 3.548E-14 |
| 61    | 0.00000 | 4C26TB     | LinStatic | -7.911E-15 | 2.9818   | -4.150E-15 | 0.19948  | 2.805E-14 |
| 61    | 0.48743 | 4C26TB     | LinStatic | -7.911E-15 | 2.9818   | -4.150E-15 | 0.19948  | 3.007E-14 |
| 61    | 0.97485 | 4C26TB     | LinStatic | -7.911E-15 | 2.9818   | -4.150E-15 | 0.19948  | 3.210E-14 |
| 62    | 0.00000 | 4C26TB     | LinStatic | -1.060E-14 | 6.0635   | -6.908E-15 | 0.24354  | 2.142E-14 |
| 62    | 0.48743 | 4C26TB     | LinStatic | -1.060E-14 | 6.0635   | -6.908E-15 | 0.24354  | 2.479E-14 |
| 62    | 0.97485 | 4C26TB     | LinStatic | -1.060E-14 | 6.0635   | -6.908E-15 | 0.24354  | 2.816E-14 |
| 63    | 0.00000 | 4C26TB     | LinStatic | -1.366E-14 | 9.0055   | -1.013E-14 | 0.26487  | 1.438E-14 |
| 63    | 0.48743 | 4C26TB     | LinStatic | -1.366E-14 | 9.0055   | -1.013E-14 | 0.26487  | 1.932E-14 |
| 63    | 0.97485 | 4C26TB     | LinStatic | -1.366E-14 | 9.0055   | -1.013E-14 | 0.26487  | 2.426E-14 |
| 64    | 0.00000 | 4C26TB     | LinStatic | -2.640E-14 | 12.5244  | -1.298E-14 | 0.22623  | 1.052E-14 |
| 64    | 0.48743 | 4C26TB     | LinStatic | -2.640E-14 | 12.5244  | -1.298E-14 | 0.22623  | 1.685E-14 |
| 64    | 0.97485 | 4C26TB     | LinStatic | -2.640E-14 | 12.5244  | -1.298E-14 | 0.22623  | 2.318E-14 |
| 65    | 0.00000 | 4C26TB     | LinStatic | -1.140E-13 | -12.5151 | 1.503E-14  | 0.22630  | 2.350E-14 |
| 65    | 0.48743 | 4C26TB     | LinStatic | -1.140E-13 | -12.5151 | 1.503E-14  | 0.22630  | 1.618E-14 |
| 65    | 0.97485 | 4C26TB     | LinStatic | -1.140E-13 | -12.5151 | 1.503E-14  | 0.22630  | 8.852E-15 |
| 66    | 0.00000 | 4C26TB     | LinStatic | -8.549E-14 | -8.9960  | 1.621E-14  | 0.26495  | 4.138E-14 |
| 66    | 0.48743 | 4C26TB     | LinStatic | -8.549E-14 | -8.9960  | 1.621E-14  | 0.26495  | 3.348E-14 |
| 66    | 0.97485 | 4C26TB     | LinStatic | -8.549E-14 | -8.9960  | 1.621E-14  | 0.26495  | 2.558E-14 |
| 67    | 0.00000 | 4C26TB     | LinStatic | -7.005E-14 | -6.1038  | 1.715E-14  | 0.24359  | 5.220E-14 |
| 67    | 0.48743 | 4C26TB     | LinStatic | -7.005E-14 | -6.1038  | 1.715E-14  | 0.24359  | 4.385E-14 |
| 67    | 0.97485 | 4C26TB     | LinStatic | -7.005E-14 | -6.1038  | 1.715E-14  | 0.24359  | 3.549E-14 |
| 68    | 0.00000 | 4C26TB     | LinStatic | -5.689E-14 | -2.9717  | 1.731E-14  | 0.19949  | 5.764E-14 |
| 68    | 0.48743 | 4C26TB     | LinStatic | -5.689E-14 | -2.9717  | 1.731E-14  | 0.19949  | 4.921E-14 |
| 68    | 0.97485 | 4C26TB     | LinStatic | -5.689E-14 | -2.9717  | 1.731E-14  | 0.19949  | 4.077E-14 |
| 69    | 0.00000 | 4C26TB     | LinStatic | -4.528E-14 | -3.0449  | 1.684E-14  | 0.14181  | 5.981E-14 |
| 69    | 0.48743 | 4C26TB     | LinStatic | -4.528E-14 | -3.0449  | 1.684E-14  | 0.14181  | 5.160E-14 |
| 69    | 0.97485 | 4C26TB     | LinStatic | -4.528E-14 | -3.0449  | 1.684E-14  | 0.14181  | 4.340E-14 |
| 70    | 0.00000 | 4C26TB     | LinStatic | -3.488E-14 | -3.1317  | 1.607E-14  | 0.07377  | 6.005E-14 |
| 70    | 0.48743 | 4C26TB     | LinStatic | -3.488E-14 | -3.1317  | 1.607E-14  | 0.07377  | 5.222E-14 |
| 70    | 0.97485 | 4C26TB     | LinStatic | -3.488E-14 | -3.1317  | 1.607E-14  | 0.07377  | 4.439E-14 |
| 71    | 0.00000 | 4C26TB     | LinStatic | -2.559E-14 | -2.0766  | 1.500E-14  | 0.00016  | 5.770E-14 |
| 71    | 0.48743 | 4C26TB     | LinStatic | -2.559E-14 | -2.0766  | 1.500E-14  | 0.00016  | 5.039E-14 |
| 71    | 0.97485 | 4C26TB     | LinStatic | -2.559E-14 | -2.0766  | 1.500E-14  | 0.00016  | 4.308E-14 |
| 72    | 0.00000 | 4C26TB     | LinStatic | -1.811E-14 | 0.1696   | 1.273E-14  | -0.07440 | 5.055E-14 |
| 72    | 0.48743 | 4C26TB     | LinStatic | -1.811E-14 | 0.1696   | 1.273E-14  | -0.07440 | 4.435E-14 |
| 72    | 0.97485 | 4C26TB     | LinStatic | -1.811E-14 | 0.1696   | 1.273E-14  | -0.07440 | 3.814E-14 |
| 73    | 0.00000 | 4C26TB     | LinStatic | -1.305E-14 | 0.0695   | 2.361E-15  | -0.14780 | 5.116E-14 |
| 73    | 0.48743 | 4C26TB     | LinStatic | -1.305E-14 | 0.0695   | 2.361E-15  | -0.14780 | 5.001E-14 |
| 73    | 0.97485 | 4C26TB     | LinStatic | -1.305E-14 | 0.0695   | 2.361E-15  | -0.14780 | 4.886E-14 |
| 74    | 0.00000 | 4C26TB     | LinStatic | -1.324E-14 | 1.6006   | -7.178E-16 | -0.21699 | 4.947E-14 |
| 74    | 0.48743 | 4C26TB     | LinStatic | -1.324E-14 | 1.6006   | -7.178E-16 | -0.21699 | 4.982E-14 |
| 74    | 0.97485 | 4C26TB     | LinStatic | -1.324E-14 | 1.6006   | -7.178E-16 | -0.21699 | 5.017E-14 |
| 75    | 0.00000 | 4C26TB     | LinStatic | -1.421E-14 | 3.4039   | -2.176E-15 | -0.27839 | 4.726E-14 |
| 75    | 0.48743 | 4C26TB     | LinStatic | -1.421E-14 | 3.4039   | -2.176E-15 | -0.27839 | 4.832E-14 |
| 75    | 0.97485 | 4C26TB     | LinStatic | -1.421E-14 | 3.4039   | -2.176E-15 | -0.27839 | 4.938E-14 |
| 76    | 0.00000 | 4C26TB     | LinStatic | -1.536E-14 | 3.3519   | -3.074E-15 | -0.33021 | 4.365E-14 |
| 76    | 0.48743 | 4C26TB     | LinStatic | -1.536E-14 | 3.3519   | -3.074E-15 | -0.33021 | 4.514E-14 |
| 76    | 0.97485 | 4C26TB     | LinStatic | -1.536E-14 | 3.3519   | -3.074E-15 | -0.33021 | 4.664E-14 |
| 77    | 0.00000 | 4C26TB     | LinStatic | -1.647E-14 | 3.3309   | -3.718E-15 | -0.36902 | 3.862E-14 |
| 77    | 0.48743 | 4C26TB     | LinStatic | -1.647E-14 | 3.3309   | -3.718E-15 | -0.36902 | 4.043E-14 |
| 77    | 0.97485 | 4C26TB     | LinStatic | -1.647E-14 | 3.3309   | -3.718E-15 | -0.36902 | 4.225E-14 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 78    | 0.00000      | 4C26TB     | LinStatic | -1.744E-14 | 5.4900     | -4.194E-15 | -0.38647    | 3.127E-14    |
| 78    | 0.48743      | 4C26TB     | LinStatic | -1.744E-14 | 5.4900     | -4.194E-15 | -0.38647    | 3.331E-14    |
| 78    | 0.97485      | 4C26TB     | LinStatic | -1.744E-14 | 5.4900     | -4.194E-15 | -0.38647    | 3.536E-14    |
| 79    | 0.00000      | 4C26TB     | LinStatic | -1.825E-14 | 8.4629     | -4.739E-15 | -0.36761    | 1.969E-14    |
| 79    | 0.48743      | 4C26TB     | LinStatic | -1.825E-14 | 8.4629     | -4.739E-15 | -0.36761    | 2.200E-14    |
| 79    | 0.97485      | 4C26TB     | LinStatic | -1.825E-14 | 8.4629     | -4.739E-15 | -0.36761    | 2.431E-14    |
| 80    | 0.00000      | 4C26TB     | LinStatic | -2.872E-14 | 12.9635    | -6.567E-15 | -0.27599    | 1.441E-15    |
| 80    | 0.48743      | 4C26TB     | LinStatic | -2.872E-14 | 12.9635    | -6.567E-15 | -0.27599    | 4.642E-15    |
| 80    | 0.97485      | 4C26TB     | LinStatic | -2.872E-14 | 12.9635    | -6.567E-15 | -0.27599    | 7.842E-15    |
| 81    | 0.00000      | 4C26TB     | LinStatic | -7.094E-14 | -10.8783   | 1.516E-14  | 0.74303     | 4.371E-14    |
| 81    | 0.48743      | 4C26TB     | LinStatic | -7.094E-14 | -10.8783   | 1.516E-14  | 0.74303     | 3.632E-14    |
| 81    | 0.97485      | 4C26TB     | LinStatic | -7.094E-14 | -10.8783   | 1.516E-14  | 0.74303     | 2.893E-14    |
| 82    | 0.00000      | 4C26TB     | LinStatic | -4.553E-14 | -6.5487    | 2.679E-14  | 0.90528     | 6.728E-14    |
| 82    | 0.48743      | 4C26TB     | LinStatic | -4.553E-14 | -6.5487    | 2.679E-14  | 0.90528     | 5.423E-14    |
| 82    | 0.97485      | 4C26TB     | LinStatic | -4.553E-14 | -6.5487    | 2.679E-14  | 0.90528     | 4.117E-14    |
| 83    | 0.00000      | 4C26TB     | LinStatic | -3.600E-14 | -3.8839    | 3.163E-14  | 0.85496     | 7.411E-14    |
| 83    | 0.48743      | 4C26TB     | LinStatic | -3.600E-14 | -3.8839    | 3.163E-14  | 0.85496     | 5.869E-14    |
| 83    | 0.97485      | 4C26TB     | LinStatic | -3.600E-14 | -3.8839    | 3.163E-14  | 0.85496     | 4.328E-14    |
| 84    | 0.00000      | 4C26TB     | LinStatic | -2.998E-14 | -1.9802    | 3.311E-14  | 0.72410     | 7.378E-14    |
| 84    | 0.48743      | 4C26TB     | LinStatic | -2.998E-14 | -1.9802    | 3.311E-14  | 0.72410     | 5.764E-14    |
| 84    | 0.97485      | 4C26TB     | LinStatic | -2.998E-14 | -1.9802    | 3.311E-14  | 0.72410     | 4.150E-14    |
| 85    | 0.00000      | 4C26TB     | LinStatic | -2.560E-14 | -2.3121    | 3.338E-14  | 0.56447     | 7.106E-14    |
| 85    | 0.48743      | 4C26TB     | LinStatic | -2.560E-14 | -2.3121    | 3.338E-14  | 0.56447     | 5.479E-14    |
| 85    | 0.97485      | 4C26TB     | LinStatic | -2.560E-14 | -2.3121    | 3.338E-14  | 0.56447     | 3.852E-14    |
| 86    | 0.00000      | 4C26TB     | LinStatic | -2.211E-14 | -2.6682    | 3.413E-14  | 0.38896     | 6.766E-14    |
| 86    | 0.48743      | 4C26TB     | LinStatic | -2.211E-14 | -2.6682    | 3.413E-14  | 0.38896     | 5.103E-14    |
| 86    | 0.97485      | 4C26TB     | LinStatic | -2.211E-14 | -2.6682    | 3.413E-14  | 0.38896     | 3.439E-14    |
| 87    | 0.00000      | 4C26TB     | LinStatic | -1.900E-14 | -1.1651    | 3.712E-14  | 0.20153     | 6.205E-14    |
| 87    | 0.48743      | 4C26TB     | LinStatic | -1.900E-14 | -1.1651    | 3.712E-14  | 0.20153     | 4.395E-14    |
| 87    | 0.97485      | 4C26TB     | LinStatic | -1.900E-14 | -1.1651    | 3.712E-14  | 0.20153     | 2.586E-14    |
| 88    | 0.00000      | 4C26TB     | LinStatic | -1.580E-14 | 0.0685     | 4.459E-14  | 0.00811     | 4.845E-14    |
| 88    | 0.48743      | 4C26TB     | LinStatic | -1.580E-14 | 0.0685     | 4.459E-14  | 0.00811     | 2.671E-14    |
| 88    | 0.97485      | 4C26TB     | LinStatic | -1.580E-14 | 0.0685     | 4.459E-14  | 0.00811     | 4.980E-15    |
| 89    | 0.00000      | 4C26TB     | LinStatic | -1.572E-14 | -0.3246    | -1.619E-14 | -0.18356    | 1.916E-14    |
| 89    | 0.48743      | 4C26TB     | LinStatic | -1.572E-14 | -0.3246    | -1.619E-14 | -0.18356    | 2.705E-14    |
| 89    | 0.97485      | 4C26TB     | LinStatic | -1.572E-14 | -0.3246    | -1.619E-14 | -0.18356    | 3.495E-14    |
| 90    | 0.00000      | 4C26TB     | LinStatic | -1.440E-14 | 1.5843     | -8.641E-15 | -0.37197    | 3.586E-14    |
| 90    | 0.48743      | 4C26TB     | LinStatic | -1.440E-14 | 1.5843     | -8.641E-15 | -0.37197    | 4.008E-14    |
| 90    | 0.97485      | 4C26TB     | LinStatic | -1.440E-14 | 1.5843     | -8.641E-15 | -0.37197    | 4.429E-14    |
| 91    | 0.00000      | 4C26TB     | LinStatic | -1.403E-14 | 2.3766     | -4.906E-15 | -0.55060    | 4.073E-14    |
| 91    | 0.48743      | 4C26TB     | LinStatic | -1.403E-14 | 2.3766     | -4.906E-15 | -0.55060    | 4.312E-14    |
| 91    | 0.97485      | 4C26TB     | LinStatic | -1.403E-14 | 2.3766     | -4.906E-15 | -0.55060    | 4.551E-14    |
| 92    | 0.00000      | 4C26TB     | LinStatic | -1.386E-14 | 1.9844     | -2.898E-15 | -0.71269    | 4.139E-14    |
| 92    | 0.48743      | 4C26TB     | LinStatic | -1.386E-14 | 1.9844     | -2.898E-15 | -0.71269    | 4.280E-14    |
| 92    | 0.97485      | 4C26TB     | LinStatic | -1.386E-14 | 1.9844     | -2.898E-15 | -0.71269    | 4.421E-14    |
| 93    | 0.00000      | 4C26TB     | LinStatic | -1.383E-14 | 1.6017     | -1.089E-15 | -0.85460    | 4.048E-14    |
| 93    | 0.48743      | 4C26TB     | LinStatic | -1.383E-14 | 1.6017     | -1.089E-15 | -0.85460    | 4.101E-14    |
| 93    | 0.97485      | 4C26TB     | LinStatic | -1.383E-14 | 1.6017     | -1.089E-15 | -0.85460    | 4.154E-14    |
| 94    | 0.00000      | 4C26TB     | LinStatic | -1.405E-14 | 4.3784     | 1.848E-15  | -0.96060    | 3.745E-14    |
| 94    | 0.48743      | 4C26TB     | LinStatic | -1.405E-14 | 4.3784     | 1.848E-15  | -0.96060    | 3.654E-14    |
| 94    | 0.97485      | 4C26TB     | LinStatic | -1.405E-14 | 4.3784     | 1.848E-15  | -0.96060    | 3.564E-14    |
| 95    | 0.00000      | 4C26TB     | LinStatic | -1.512E-14 | 7.0524     | 7.277E-15  | -0.97928    | 3.017E-14    |
| 95    | 0.48743      | 4C26TB     | LinStatic | -1.512E-14 | 7.0524     | 7.277E-15  | -0.97928    | 2.663E-14    |
| 95    | 0.97485      | 4C26TB     | LinStatic | -1.512E-14 | 7.0524     | 7.277E-15  | -0.97928    | 2.308E-14    |
| 96    | 0.00000      | 4C26TB     | LinStatic | -2.643E-14 | 10.3808    | 1.726E-14  | -0.77903    | 1.565E-14    |
| 96    | 0.48743      | 4C26TB     | LinStatic | -2.643E-14 | 10.3808    | 1.726E-14  | -0.77903    | 7.239E-15    |
| 96    | 0.97485      | 4C26TB     | LinStatic | -2.643E-14 | 10.3808    | 1.726E-14  | -0.77903    | -1.174E-15   |
| 97    | 0.00000      | 4C26TB     | LinStatic | 5.143E-14  | -3.0318    | 3.200E-14  | 0.87207     | 4.506E-14    |
| 97    | 0.48743      | 4C26TB     | LinStatic | 5.143E-14  | -3.0318    | 3.200E-14  | 0.87207     | 2.946E-14    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|--------------|------------|-----------|------------|---------|------------|----------|------------|
|       |              |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 97    | 0.97485      | 4C26TB     | LinStatic | 5.143E-14  | -3.0318 | 3.200E-14  | 0.87207  | 1.386E-14  |
| 98    | 0.00000      | 4C26TB     | LinStatic | 3.838E-14  | -2.8472 | 3.597E-14  | 1.06887  | 6.182E-14  |
| 98    | 0.48743      | 4C26TB     | LinStatic | 3.838E-14  | -2.8472 | 3.597E-14  | 1.06887  | 4.429E-14  |
| 98    | 0.97485      | 4C26TB     | LinStatic | 3.838E-14  | -2.8472 | 3.597E-14  | 1.06887  | 2.675E-14  |
| 99    | 0.00000      | 4C26TB     | LinStatic | 2.587E-14  | -2.5331 | 3.675E-14  | 1.02158  | 6.365E-14  |
| 99    | 0.48743      | 4C26TB     | LinStatic | 2.587E-14  | -2.5331 | 3.675E-14  | 1.02158  | 4.574E-14  |
| 99    | 0.97485      | 4C26TB     | LinStatic | 2.587E-14  | -2.5331 | 3.675E-14  | 1.02158  | 2.783E-14  |
| 100   | 0.00000      | 4C26TB     | LinStatic | 1.576E-14  | -2.1413 | 3.592E-14  | 0.88183  | 5.993E-14  |
| 100   | 0.48743      | 4C26TB     | LinStatic | 1.576E-14  | -2.1413 | 3.592E-14  | 0.88183  | 4.242E-14  |
| 100   | 0.97485      | 4C26TB     | LinStatic | 1.576E-14  | -2.1413 | 3.592E-14  | 0.88183  | 2.491E-14  |
| 101   | 0.00000      | 4C26TB     | LinStatic | 7.524E-15  | -1.7066 | 3.451E-14  | 0.70478  | 5.422E-14  |
| 101   | 0.48743      | 4C26TB     | LinStatic | 7.524E-15  | -1.7066 | 3.451E-14  | 0.70478  | 3.739E-14  |
| 101   | 0.97485      | 4C26TB     | LinStatic | 7.524E-15  | -1.7066 | 3.451E-14  | 0.70478  | 2.057E-14  |
| 102   | 0.00000      | 4C26TB     | LinStatic | 6.341E-16  | -1.2417 | 3.323E-14  | 0.50606  | 4.756E-14  |
| 102   | 0.48743      | 4C26TB     | LinStatic | 6.341E-16  | -1.2417 | 3.323E-14  | 0.50606  | 3.137E-14  |
| 102   | 0.97485      | 4C26TB     | LinStatic | 6.341E-16  | -1.2417 | 3.323E-14  | 0.50606  | 1.517E-14  |
| 103   | 0.00000      | 4C26TB     | LinStatic | -5.204E-15 | -0.7528 | 3.282E-14  | 0.29123  | 3.986E-14  |
| 103   | 0.48743      | 4C26TB     | LinStatic | -5.204E-15 | -0.7528 | 3.282E-14  | 0.29123  | 2.386E-14  |
| 103   | 0.97485      | 4C26TB     | LinStatic | -5.204E-15 | -0.7528 | 3.282E-14  | 0.29123  | 7.858E-15  |
| 104   | 0.00000      | 4C26TB     | LinStatic | -9.651E-15 | -0.2528 | 3.443E-14  | 0.06943  | 2.900E-14  |
| 104   | 0.48743      | 4C26TB     | LinStatic | -9.651E-15 | -0.2528 | 3.443E-14  | 0.06943  | 1.222E-14  |
| 104   | 0.97485      | 4C26TB     | LinStatic | -9.651E-15 | -0.2528 | 3.443E-14  | 0.06943  | -4.569E-15 |
| 105   | 0.00000      | 4C26TB     | LinStatic | -1.066E-14 | 0.2491  | -7.446E-15 | -0.15245 | 5.410E-15  |
| 105   | 0.48743      | 4C26TB     | LinStatic | -1.066E-14 | 0.2491  | -7.446E-15 | -0.15245 | 9.040E-15  |
| 105   | 0.97485      | 4C26TB     | LinStatic | -1.066E-14 | 0.2491  | -7.446E-15 | -0.15245 | 1.267E-14  |
| 106   | 0.00000      | 4C26TB     | LinStatic | -9.693E-15 | 0.7492  | -4.021E-15 | -0.37195 | 1.730E-14  |
| 106   | 0.48743      | 4C26TB     | LinStatic | -9.693E-15 | 0.7492  | -4.021E-15 | -0.37195 | 1.926E-14  |
| 106   | 0.97485      | 4C26TB     | LinStatic | -9.693E-15 | 0.7492  | -4.021E-15 | -0.37195 | 2.122E-14  |
| 107   | 0.00000      | 4C26TB     | LinStatic | -8.017E-15 | 1.2344  | -2.238E-15 | -0.57979 | 2.144E-14  |
| 107   | 0.48743      | 4C26TB     | LinStatic | -8.017E-15 | 1.2344  | -2.238E-15 | -0.57979 | 2.253E-14  |
| 107   | 0.97485      | 4C26TB     | LinStatic | -8.017E-15 | 1.2344  | -2.238E-15 | -0.57979 | 2.362E-14  |
| 108   | 0.00000      | 4C26TB     | LinStatic | -5.930E-15 | 1.6962  | -8.579E-16 | -0.77036 | 2.250E-14  |
| 108   | 0.48743      | 4C26TB     | LinStatic | -5.930E-15 | 1.6962  | -8.579E-16 | -0.77036 | 2.292E-14  |
| 108   | 0.97485      | 4C26TB     | LinStatic | -5.930E-15 | 1.6962  | -8.579E-16 | -0.77036 | 2.334E-14  |
| 109   | 0.00000      | 4C26TB     | LinStatic | -3.236E-15 | 2.1277  | 9.843E-16  | -0.93938 | 2.182E-14  |
| 109   | 0.48743      | 4C26TB     | LinStatic | -3.236E-15 | 2.1277  | 9.843E-16  | -0.93938 | 2.134E-14  |
| 109   | 0.97485      | 4C26TB     | LinStatic | -3.236E-15 | 2.1277  | 9.843E-16  | -0.93938 | 2.086E-14  |
| 110   | 0.00000      | 4C26TB     | LinStatic | 4.498E-16  | 2.5098  | 4.072E-15  | -1.06971 | 1.944E-14  |
| 110   | 0.48743      | 4C26TB     | LinStatic | 4.498E-16  | 2.5098  | 4.072E-15  | -1.06971 | 1.746E-14  |
| 110   | 0.97485      | 4C26TB     | LinStatic | 4.498E-16  | 2.5098  | 4.072E-15  | -1.06971 | 1.547E-14  |
| 111   | 0.00000      | 4C26TB     | LinStatic | 5.534E-15  | 2.7951  | 9.513E-15  | -1.10155 | 1.394E-14  |
| 111   | 0.48743      | 4C26TB     | LinStatic | 5.534E-15  | 2.7951  | 9.513E-15  | -1.10155 | 9.305E-15  |
| 111   | 0.97485      | 4C26TB     | LinStatic | 5.534E-15  | 2.7951  | 9.513E-15  | -1.10155 | 4.668E-15  |
| 112   | 0.00000      | 4C26TB     | LinStatic | 1.034E-14  | 2.9295  | 1.899E-14  | -0.88496 | 1.267E-15  |
| 112   | 0.48743      | 4C26TB     | LinStatic | 1.034E-14  | 2.9295  | 1.899E-14  | -0.88496 | -7.991E-15 |
| 112   | 0.97485      | 4C26TB     | LinStatic | 1.034E-14  | 2.9295  | 1.899E-14  | -0.88496 | -1.725E-14 |
| 113   | 0.00000      | 4C26TB     | LinStatic | 1.295E-13  | 0.3849  | 4.027E-14  | 0.39897  | 2.542E-14  |
| 113   | 0.48743      | 4C26TB     | LinStatic | 1.295E-13  | 0.3849  | 4.027E-14  | 0.39897  | 5.791E-15  |
| 113   | 0.97485      | 4C26TB     | LinStatic | 1.295E-13  | 0.3849  | 4.027E-14  | 0.39897  | -1.384E-14 |
| 114   | 0.00000      | 4C26TB     | LinStatic | 9.338E-14  | 0.2129  | 3.460E-14  | 0.50507  | 3.809E-14  |
| 114   | 0.48743      | 4C26TB     | LinStatic | 9.338E-14  | 0.2129  | 3.460E-14  | 0.50507  | 2.122E-14  |
| 114   | 0.97485      | 4C26TB     | LinStatic | 9.338E-14  | 0.2129  | 3.460E-14  | 0.50507  | 4.358E-15  |
| 115   | 0.00000      | 4C26TB     | LinStatic | 6.767E-14  | 0.1316  | 3.149E-14  | 0.50239  | 3.973E-14  |
| 115   | 0.48743      | 4C26TB     | LinStatic | 6.767E-14  | 0.1316  | 3.149E-14  | 0.50239  | 2.438E-14  |
| 115   | 0.97485      | 4C26TB     | LinStatic | 6.767E-14  | 0.1316  | 3.149E-14  | 0.50239  | 9.029E-15  |
| 116   | 0.00000      | 4C26TB     | LinStatic | 4.748E-14  | 0.0825  | 2.884E-14  | 0.45054  | 3.485E-14  |
| 116   | 0.48743      | 4C26TB     | LinStatic | 4.748E-14  | 0.0825  | 2.884E-14  | 0.45054  | 2.079E-14  |
| 116   | 0.97485      | 4C26TB     | LinStatic | 4.748E-14  | 0.0825  | 2.884E-14  | 0.45054  | 6.736E-15  |
| 117   | 0.00000      | 4C26TB     | LinStatic | 3.082E-14  | 0.0494  | 2.563E-14  | 0.37067  | 2.656E-14  |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 117   | 0.48743      | 4C26TB     | LinStatic | 3.082E-14  | 0.0494     | 2.563E-14  | 0.37067     | 1.406E-14    |
| 117   | 0.97485      | 4C26TB     | LinStatic | 3.082E-14  | 0.0494     | 2.563E-14  | 0.37067     | 1.568E-15    |
| 118   | 0.00000      | 4C26TB     | LinStatic | 1.690E-14  | 0.0265     | 2.117E-14  | 0.27283     | 1.686E-14    |
| 118   | 0.48743      | 4C26TB     | LinStatic | 1.690E-14  | 0.0265     | 2.117E-14  | 0.27283     | 6.538E-15    |
| 118   | 0.97485      | 4C26TB     | LinStatic | 1.690E-14  | 0.0265     | 2.117E-14  | 0.27283     | -3.780E-15   |
| 119   | 0.00000      | 4C26TB     | LinStatic | 5.527E-15  | 0.0105     | 1.454E-14  | 0.16360     | 7.640E-15    |
| 119   | 0.48743      | 4C26TB     | LinStatic | 5.527E-15  | 0.0105     | 1.454E-14  | 0.16360     | 5.551E-16    |
| 119   | 0.97485      | 4C26TB     | LinStatic | 5.527E-15  | 0.0105     | 1.454E-14  | 0.16360     | -6.530E-15   |
| 120   | 0.00000      | 4C26TB     | LinStatic | -3.188E-15 | -7.836E-04 | 4.309E-15  | 0.04801     | 2.386E-15    |
| 120   | 0.48743      | 4C26TB     | LinStatic | -3.188E-15 | -7.836E-04 | 4.309E-15  | 0.04801     | -2.852E-16   |
| 120   | 0.97485      | 4C26TB     | LinStatic | -3.188E-15 | -7.836E-04 | 4.309E-15  | 0.04801     | -1.815E-15   |
| 121   | 0.00000      | 4C26TB     | LinStatic | -4.502E-15 | -0.0097    | 1.543E-14  | -0.06923    | 5.098E-15    |
| 121   | 0.48743      | 4C26TB     | LinStatic | -4.502E-15 | -0.0097    | 1.543E-14  | -0.06923    | -2.425E-15   |
| 121   | 0.97485      | 4C26TB     | LinStatic | -4.502E-15 | -0.0097    | 1.543E-14  | -0.06923    | -9.948E-15   |
| 122   | 0.00000      | 4C26TB     | LinStatic | -5.560E-15 | -0.0191    | 6.586E-15  | -0.18325    | -6.244E-16   |
| 122   | 0.48743      | 4C26TB     | LinStatic | -5.560E-15 | -0.0191    | 6.586E-15  | -0.18325    | -3.835E-15   |
| 122   | 0.97485      | 4C26TB     | LinStatic | -5.560E-15 | -0.0191    | 6.586E-15  | -0.18325    | -7.045E-15   |
| 123   | 0.00000      | 4C26TB     | LinStatic | -4.231E-15 | -0.0309    | 2.250E-15  | -0.28953    | -6.504E-16   |
| 123   | 0.48743      | 4C26TB     | LinStatic | -4.231E-15 | -0.0309    | 2.250E-15  | -0.28953    | -1.747E-15   |
| 123   | 0.97485      | 4C26TB     | LinStatic | -4.231E-15 | -0.0309    | 2.250E-15  | -0.28953    | -2.844E-15   |
| 124   | 0.00000      | 4C26TB     | LinStatic | -1.681E-15 | -0.0475    | 7.806E-16  | -0.38297    | 7.772E-16    |
| 124   | 0.48743      | 4C26TB     | LinStatic | -1.681E-15 | -0.0475    | 7.806E-16  | -0.38297    | 3.967E-16    |
| 124   | 0.97485      | 4C26TB     | LinStatic | -1.681E-15 | -0.0475    | 7.806E-16  | -0.38297    | 1.623E-17    |
| 125   | 0.00000      | 4C26TB     | LinStatic | 1.502E-15  | -0.0718    | 1.176E-15  | -0.45724    | 1.329E-15    |
| 125   | 0.48743      | 4C26TB     | LinStatic | 1.502E-15  | -0.0718    | 1.176E-15  | -0.45724    | 7.561E-16    |
| 125   | 0.97485      | 4C26TB     | LinStatic | 1.502E-15  | -0.0718    | 1.176E-15  | -0.45724    | 1.827E-16    |
| 126   | 0.00000      | 4C26TB     | LinStatic | 5.189E-15  | -0.1079    | 2.727E-15  | -0.50316    | -1.006E-15   |
| 126   | 0.48743      | 4C26TB     | LinStatic | 5.189E-15  | -0.1079    | 2.727E-15  | -0.50316    | -2.335E-15   |
| 126   | 0.97485      | 4C26TB     | LinStatic | 5.189E-15  | -0.1079    | 2.727E-15  | -0.50316    | -3.664E-15   |
| 127   | 0.00000      | 4C26TB     | LinStatic | 9.814E-15  | -0.1698    | 4.593E-15  | -0.50123    | -8.820E-15   |
| 127   | 0.48743      | 4C26TB     | LinStatic | 9.814E-15  | -0.1698    | 4.593E-15  | -0.50123    | -1.106E-14   |
| 127   | 0.97485      | 4C26TB     | LinStatic | 9.814E-15  | -0.1698    | 4.593E-15  | -0.50123    | -1.330E-14   |
| 128   | 0.00000      | 4C26TB     | LinStatic | 1.711E-14  | -0.3143    | 5.261E-15  | -0.39381    | -2.542E-14   |
| 128   | 0.48743      | 4C26TB     | LinStatic | 1.711E-14  | -0.3143    | 5.261E-15  | -0.39381    | -2.798E-14   |
| 128   | 0.97485      | 4C26TB     | LinStatic | 1.711E-14  | -0.3143    | 5.261E-15  | -0.39381    | -3.055E-14   |
| 129   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | 0.4258     | 1.283E-13  | 0.21138     | 6.625E-14    |
| 129   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | 0.4258     | 1.283E-13  | 0.21138     | 6.345E-15    |
| 129   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | 0.4258     | 1.283E-13  | 0.21138     | -5.356E-14   |
| 129   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | 0.4258     | 1.283E-13  | 0.21138     | -1.135E-13   |
| 129   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | 0.4258     | 1.283E-13  | 0.21138     | -1.734E-13   |
| 130   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | 0.4909     | -3.717E-14 | 0.26688     | -1.009E-13   |
| 130   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | 0.4909     | -3.717E-14 | 0.26688     | -8.357E-14   |
| 130   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | 0.4909     | -3.717E-14 | 0.26688     | -6.621E-14   |
| 130   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | 0.4909     | -3.717E-14 | 0.26688     | -4.885E-14   |
| 130   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | 0.4909     | -3.717E-14 | 0.26688     | -3.150E-14   |
| 131   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | 0.3090     | -1.326E-14 | 0.14672     | -2.020E-14   |
| 131   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | 0.3090     | -1.326E-14 | 0.14672     | -1.401E-14   |
| 131   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | 0.3090     | -1.326E-14 | 0.14672     | -7.817E-15   |
| 131   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | 0.3090     | -1.326E-14 | 0.14672     | -1.628E-15   |
| 131   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | 0.3090     | -1.326E-14 | 0.14672     | 4.562E-15    |
| 132   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | 0.0223     | -1.249E-14 | 0.00439     | -6.217E-15   |
| 132   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | 0.0223     | -1.249E-14 | 0.00439     | -3.845E-16   |
| 132   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | 0.0223     | -1.249E-14 | 0.00439     | 5.448E-15    |
| 132   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | 0.0223     | -1.249E-14 | 0.00439     | 1.128E-14    |
| 132   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | 0.0223     | -1.249E-14 | 0.00439     | 1.711E-14    |
| 133   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | -0.2689    | -1.752E-14 | -0.13729    | -6.243E-15   |
| 133   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | -0.2689    | -1.752E-14 | -0.13729    | 1.937E-15    |
| 133   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | -0.2689    | -1.752E-14 | -0.13729    | 1.012E-14    |
| 133   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | -0.2689    | -1.752E-14 | -0.13729    | 1.830E-14    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|--------------|------------|-----------|------------|---------|------------|----------|------------|
|       |              |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 133   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | -0.2689 | -1.752E-14 | -0.13729 | 2.648E-14  |
| 134   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | -0.4657 | -2.204E-14 | -0.26469 | -1.671E-14 |
| 134   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | -0.4657 | -2.204E-14 | -0.26469 | -6.414E-15 |
| 134   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | -0.4657 | -2.204E-14 | -0.26469 | 3.878E-15  |
| 134   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | -0.4657 | -2.204E-14 | -0.26469 | 1.417E-14  |
| 134   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | -0.4657 | -2.204E-14 | -0.26469 | 2.446E-14  |
| 135   | 0.00000      | 4C26TB     | LinStatic | 0.0000     | -0.4630 | -2.412E-14 | -0.21696 | -1.996E-14 |
| 135   | 0.46695      | 4C26TB     | LinStatic | 0.0000     | -0.4630 | -2.412E-14 | -0.21696 | -8.691E-15 |
| 135   | 0.93391      | 4C26TB     | LinStatic | 0.0000     | -0.4630 | -2.412E-14 | -0.21696 | 2.574E-15  |
| 135   | 1.40086      | 4C26TB     | LinStatic | 0.0000     | -0.4630 | -2.412E-14 | -0.21696 | 1.384E-14  |
| 135   | 1.86781      | 4C26TB     | LinStatic | 0.0000     | -0.4630 | -2.412E-14 | -0.21696 | 2.510E-14  |
| 136   | 0.00000      | 4C26TB     | LinStatic | 7.895E-15  | 0.1445  | 8.523E-14  | 0.20526  | 5.629E-14  |
| 136   | 0.46695      | 4C26TB     | LinStatic | 7.895E-15  | 0.1445  | 8.523E-14  | 0.20526  | 1.648E-14  |
| 136   | 0.93391      | 4C26TB     | LinStatic | 7.895E-15  | 0.1445  | 8.523E-14  | 0.20526  | -2.332E-14 |
| 136   | 1.40086      | 4C26TB     | LinStatic | 7.895E-15  | 0.1445  | 8.523E-14  | 0.20526  | -6.312E-14 |
| 136   | 1.86781      | 4C26TB     | LinStatic | 7.895E-15  | 0.1445  | 8.523E-14  | 0.20526  | -1.029E-13 |
| 137   | 0.00000      | 4C26TB     | LinStatic | 1.289E-15  | 0.0102  | 2.115E-14  | 0.25780  | -4.544E-14 |
| 137   | 0.46695      | 4C26TB     | LinStatic | 1.289E-15  | 0.0102  | 2.115E-14  | 0.25780  | -5.532E-14 |
| 137   | 0.93391      | 4C26TB     | LinStatic | 1.289E-15  | 0.0102  | 2.115E-14  | 0.25780  | -6.520E-14 |
| 137   | 1.40086      | 4C26TB     | LinStatic | 1.289E-15  | 0.0102  | 2.115E-14  | 0.25780  | -7.507E-14 |
| 137   | 1.86781      | 4C26TB     | LinStatic | 1.289E-15  | 0.0102  | 2.115E-14  | 0.25780  | -8.495E-14 |
| 138   | 0.00000      | 4C26TB     | LinStatic | -1.142E-14 | 0.1117  | 4.257E-15  | 0.14823  | -6.661E-14 |
| 138   | 0.46695      | 4C26TB     | LinStatic | -1.142E-14 | 0.1117  | 4.257E-15  | 0.14823  | -6.860E-14 |
| 138   | 0.93391      | 4C26TB     | LinStatic | -1.142E-14 | 0.1117  | 4.257E-15  | 0.14823  | -7.059E-14 |
| 138   | 1.40086      | 4C26TB     | LinStatic | -1.142E-14 | 0.1117  | 4.257E-15  | 0.14823  | -7.257E-14 |
| 138   | 1.86781      | 4C26TB     | LinStatic | -1.142E-14 | 0.1117  | 4.257E-15  | 0.14823  | -7.456E-14 |
| 139   | 0.00000      | 4C26TB     | LinStatic | -1.256E-14 | 0.0213  | -1.293E-14 | 0.01017  | -7.532E-14 |
| 139   | 0.46695      | 4C26TB     | LinStatic | -1.256E-14 | 0.0213  | -1.293E-14 | 0.01017  | -6.928E-14 |
| 139   | 0.93391      | 4C26TB     | LinStatic | -1.256E-14 | 0.0213  | -1.293E-14 | 0.01017  | -6.324E-14 |
| 139   | 1.40086      | 4C26TB     | LinStatic | -1.256E-14 | 0.0213  | -1.293E-14 | 0.01017  | -5.720E-14 |
| 139   | 1.86781      | 4C26TB     | LinStatic | -1.256E-14 | 0.0213  | -1.293E-14 | 0.01017  | -5.116E-14 |
| 140   | 0.00000      | 4C26TB     | LinStatic | -1.347E-14 | -0.0678 | -3.237E-14 | -0.12969 | -8.387E-14 |
| 140   | 0.46695      | 4C26TB     | LinStatic | -1.347E-14 | -0.0678 | -3.237E-14 | -0.12969 | -6.875E-14 |
| 140   | 0.93391      | 4C26TB     | LinStatic | -1.347E-14 | -0.0678 | -3.237E-14 | -0.12969 | -5.363E-14 |
| 140   | 1.40086      | 4C26TB     | LinStatic | -1.347E-14 | -0.0678 | -3.237E-14 | -0.12969 | -3.852E-14 |
| 140   | 1.86781      | 4C26TB     | LinStatic | -1.347E-14 | -0.0678 | -3.237E-14 | -0.12969 | -2.340E-14 |
| 141   | 0.00000      | 4C26TB     | LinStatic | -3.756E-15 | 0.0125  | -5.103E-14 | -0.25262 | -6.231E-14 |
| 141   | 0.46695      | 4C26TB     | LinStatic | -3.756E-15 | 0.0125  | -5.103E-14 | -0.25262 | -3.848E-14 |
| 141   | 0.93391      | 4C26TB     | LinStatic | -3.756E-15 | 0.0125  | -5.103E-14 | -0.25262 | -1.465E-14 |
| 141   | 1.40086      | 4C26TB     | LinStatic | -3.756E-15 | 0.0125  | -5.103E-14 | -0.25262 | 9.176E-15  |
| 141   | 1.86781      | 4C26TB     | LinStatic | -3.756E-15 | 0.0125  | -5.103E-14 | -0.25262 | 3.300E-14  |
| 142   | 0.00000      | 4C26TB     | LinStatic | 1.793E-15  | -0.1721 | -3.628E-14 | -0.21428 | -1.558E-14 |
| 142   | 0.46695      | 4C26TB     | LinStatic | 1.793E-15  | -0.1721 | -3.628E-14 | -0.21428 | 1.360E-15  |
| 142   | 0.93391      | 4C26TB     | LinStatic | 1.793E-15  | -0.1721 | -3.628E-14 | -0.21428 | 1.830E-14  |
| 142   | 1.40086      | 4C26TB     | LinStatic | 1.793E-15  | -0.1721 | -3.628E-14 | -0.21428 | 3.525E-14  |
| 142   | 1.86781      | 4C26TB     | LinStatic | 1.793E-15  | -0.1721 | -3.628E-14 | -0.21428 | 5.219E-14  |
| 143   | 0.00000      | 4C26TB     | LinStatic | 7.266E-15  | 0.0618  | 5.254E-14  | 0.19039  | 3.169E-14  |
| 143   | 0.46695      | 4C26TB     | LinStatic | 7.266E-15  | 0.0618  | 5.254E-14  | 0.19039  | 7.155E-15  |
| 143   | 0.93391      | 4C26TB     | LinStatic | 7.266E-15  | 0.0618  | 5.254E-14  | 0.19039  | -1.738E-14 |
| 143   | 1.40086      | 4C26TB     | LinStatic | 7.266E-15  | 0.0618  | 5.254E-14  | 0.19039  | -4.191E-14 |
| 143   | 1.86781      | 4C26TB     | LinStatic | 7.266E-15  | 0.0618  | 5.254E-14  | 0.19039  | -6.645E-14 |
| 144   | 0.00000      | 4C26TB     | LinStatic | 5.250E-15  | -0.2234 | 2.129E-14  | 0.23259  | -2.969E-14 |
| 144   | 0.46695      | 4C26TB     | LinStatic | 5.250E-15  | -0.2234 | 2.129E-14  | 0.23259  | -3.964E-14 |
| 144   | 0.93391      | 4C26TB     | LinStatic | 5.250E-15  | -0.2234 | 2.129E-14  | 0.23259  | -4.958E-14 |
| 144   | 1.40086      | 4C26TB     | LinStatic | 5.250E-15  | -0.2234 | 2.129E-14  | 0.23259  | -5.952E-14 |
| 144   | 1.86781      | 4C26TB     | LinStatic | 5.250E-15  | -0.2234 | 2.129E-14  | 0.23259  | -6.946E-14 |
| 145   | 0.00000      | 4C26TB     | LinStatic | -2.293E-15 | 0.0424  | 3.050E-15  | 0.14520  | -5.448E-14 |
| 145   | 0.46695      | 4C26TB     | LinStatic | -2.293E-15 | 0.0424  | 3.050E-15  | 0.14520  | -5.591E-14 |
| 145   | 0.93391      | 4C26TB     | LinStatic | -2.293E-15 | 0.0424  | 3.050E-15  | 0.14520  | -5.733E-14 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 145   | 1.40086      | 4C26TB     | LinStatic | -2.293E-15 | 0.0424     | 3.050E-15  | 0.14520     | -5.876E-14   |
| 145   | 1.86781      | 4C26TB     | LinStatic | -2.293E-15 | 0.0424     | 3.050E-15  | 0.14520     | -6.018E-14   |
| 146   | 0.00000      | 4C26TB     | LinStatic | -4.837E-15 | 0.0098     | -1.280E-14 | 0.01714     | -6.465E-14   |
| 146   | 0.46695      | 4C26TB     | LinStatic | -4.837E-15 | 0.0098     | -1.280E-14 | 0.01714     | -5.868E-14   |
| 146   | 0.93391      | 4C26TB     | LinStatic | -4.837E-15 | 0.0098     | -1.280E-14 | 0.01714     | -5.270E-14   |
| 146   | 1.40086      | 4C26TB     | LinStatic | -4.837E-15 | 0.0098     | -1.280E-14 | 0.01714     | -4.672E-14   |
| 146   | 1.86781      | 4C26TB     | LinStatic | -4.837E-15 | 0.0098     | -1.280E-14 | 0.01714     | -4.075E-14   |
| 147   | 0.00000      | 4C26TB     | LinStatic | -5.550E-15 | 0.0075     | -2.826E-14 | -0.11501    | -6.739E-14   |
| 147   | 0.46695      | 4C26TB     | LinStatic | -5.550E-15 | 0.0075     | -2.826E-14 | -0.11501    | -5.420E-14   |
| 147   | 0.93391      | 4C26TB     | LinStatic | -5.550E-15 | 0.0075     | -2.826E-14 | -0.11501    | -4.100E-14   |
| 147   | 1.40086      | 4C26TB     | LinStatic | -5.550E-15 | 0.0075     | -2.826E-14 | -0.11501    | -2.781E-14   |
| 147   | 1.86781      | 4C26TB     | LinStatic | -5.550E-15 | 0.0075     | -2.826E-14 | -0.11501    | -1.461E-14   |
| 148   | 0.00000      | 4C26TB     | LinStatic | -1.730E-15 | 0.2327     | -3.825E-14 | -0.22410    | -4.757E-14   |
| 148   | 0.46695      | 4C26TB     | LinStatic | -1.730E-15 | 0.2327     | -3.825E-14 | -0.22410    | -2.971E-14   |
| 148   | 0.93391      | 4C26TB     | LinStatic | -1.730E-15 | 0.2327     | -3.825E-14 | -0.22410    | -1.184E-14   |
| 148   | 1.40086      | 4C26TB     | LinStatic | -1.730E-15 | 0.2327     | -3.825E-14 | -0.22410    | -6.016E-15   |
| 148   | 1.86781      | 4C26TB     | LinStatic | -1.730E-15 | 0.2327     | -3.825E-14 | -0.22410    | 2.388E-14    |
| 149   | 0.00000      | 4C26TB     | LinStatic | 3.396E-16  | -0.0813    | -2.589E-14 | -0.20290    | -1.302E-14   |
| 149   | 0.46695      | 4C26TB     | LinStatic | 3.396E-16  | -0.0813    | -2.589E-14 | -0.20290    | -9.274E-16   |
| 149   | 0.93391      | 4C26TB     | LinStatic | 3.396E-16  | -0.0813    | -2.589E-14 | -0.20290    | 1.116E-14    |
| 149   | 1.40086      | 4C26TB     | LinStatic | 3.396E-16  | -0.0813    | -2.589E-14 | -0.20290    | 2.325E-14    |
| 149   | 1.86781      | 4C26TB     | LinStatic | 3.396E-16  | -0.0813    | -2.589E-14 | -0.20290    | 3.534E-14    |
| 150   | 0.00000      | 4C26TB     | LinStatic | 7.433E-15  | 0.0361     | 3.655E-14  | 0.16832     | 2.285E-14    |
| 150   | 0.46695      | 4C26TB     | LinStatic | 7.433E-15  | 0.0361     | 3.655E-14  | 0.16832     | 5.787E-15    |
| 150   | 0.93391      | 4C26TB     | LinStatic | 7.433E-15  | 0.0361     | 3.655E-14  | 0.16832     | -1.128E-14   |
| 150   | 1.40086      | 4C26TB     | LinStatic | 7.433E-15  | 0.0361     | 3.655E-14  | 0.16832     | -2.835E-14   |
| 150   | 1.86781      | 4C26TB     | LinStatic | 7.433E-15  | 0.0361     | 3.655E-14  | 0.16832     | -4.542E-14   |
| 151   | 0.00000      | 4C26TB     | LinStatic | 8.011E-15  | -0.3460    | 2.001E-14  | 0.19880     | -1.772E-14   |
| 151   | 0.46695      | 4C26TB     | LinStatic | 8.011E-15  | -0.3460    | 2.001E-14  | 0.19880     | -2.706E-14   |
| 151   | 0.93391      | 4C26TB     | LinStatic | 8.011E-15  | -0.3460    | 2.001E-14  | 0.19880     | -3.640E-14   |
| 151   | 1.40086      | 4C26TB     | LinStatic | 8.011E-15  | -0.3460    | 2.001E-14  | 0.19880     | -4.575E-14   |
| 151   | 1.86781      | 4C26TB     | LinStatic | 8.011E-15  | -0.3460    | 2.001E-14  | 0.19880     | -5.509E-14   |
| 152   | 0.00000      | 4C26TB     | LinStatic | 3.469E-15  | 0.0073     | 3.704E-15  | 0.13828     | -3.996E-14   |
| 152   | 0.46695      | 4C26TB     | LinStatic | 3.469E-15  | 0.0073     | 3.704E-15  | 0.13828     | -4.169E-14   |
| 152   | 0.93391      | 4C26TB     | LinStatic | 3.469E-15  | 0.0073     | 3.704E-15  | 0.13828     | -4.342E-14   |
| 152   | 1.40086      | 4C26TB     | LinStatic | 3.469E-15  | 0.0073     | 3.704E-15  | 0.13828     | -4.515E-14   |
| 152   | 1.86781      | 4C26TB     | LinStatic | 3.469E-15  | 0.0073     | 3.704E-15  | 0.13828     | -4.688E-14   |
| 153   | 0.00000      | 4C26TB     | LinStatic | 6.344E-16  | -0.0015    | -1.126E-14 | 0.02250     | -5.097E-14   |
| 153   | 0.46695      | 4C26TB     | LinStatic | 6.344E-16  | -0.0015    | -1.126E-14 | 0.02250     | -4.571E-14   |
| 153   | 0.93391      | 4C26TB     | LinStatic | 6.344E-16  | -0.0015    | -1.126E-14 | 0.02250     | -4.044E-14   |
| 153   | 1.40086      | 4C26TB     | LinStatic | 6.344E-16  | -0.0015    | -1.126E-14 | 0.02250     | -3.518E-14   |
| 153   | 1.86781      | 4C26TB     | LinStatic | 6.344E-16  | -0.0015    | -1.126E-14 | 0.02250     | -2.992E-14   |
| 154   | 0.00000      | 4C26TB     | LinStatic | -6.014E-16 | 0.0464     | -2.436E-14 | -0.09399    | -5.210E-14   |
| 154   | 0.46695      | 4C26TB     | LinStatic | -6.014E-16 | 0.0464     | -2.436E-14 | -0.09399    | -4.072E-14   |
| 154   | 0.93391      | 4C26TB     | LinStatic | -6.014E-16 | 0.0464     | -2.436E-14 | -0.09399    | -2.935E-14   |
| 154   | 1.40086      | 4C26TB     | LinStatic | -6.014E-16 | 0.0464     | -2.436E-14 | -0.09399    | -1.797E-14   |
| 154   | 1.86781      | 4C26TB     | LinStatic | -6.014E-16 | 0.0464     | -2.436E-14 | -0.09399    | -6.594E-15   |
| 155   | 0.00000      | 4C26TB     | LinStatic | 2.658E-16  | 0.3427     | -3.050E-14 | -0.18867    | -3.711E-14   |
| 155   | 0.46695      | 4C26TB     | LinStatic | 2.658E-16  | 0.3427     | -3.050E-14 | -0.18867    | -2.287E-14   |
| 155   | 0.93391      | 4C26TB     | LinStatic | 2.658E-16  | 0.3427     | -3.050E-14 | -0.18867    | -8.622E-15   |
| 155   | 1.40086      | 4C26TB     | LinStatic | 2.658E-16  | 0.3427     | -3.050E-14 | -0.18867    | 5.622E-15    |
| 155   | 1.86781      | 4C26TB     | LinStatic | 2.658E-16  | 0.3427     | -3.050E-14 | -0.18867    | 1.987E-14    |
| 156   | 0.00000      | 4C26TB     | LinStatic | 4.759E-16  | -0.0491    | -2.036E-14 | -0.18342    | -1.224E-14   |
| 156   | 0.46695      | 4C26TB     | LinStatic | 4.759E-16  | -0.0491    | -2.036E-14 | -0.18342    | -2.730E-15   |
| 156   | 0.93391      | 4C26TB     | LinStatic | 4.759E-16  | -0.0491    | -2.036E-14 | -0.18342    | 6.779E-15    |
| 156   | 1.40086      | 4C26TB     | LinStatic | 4.759E-16  | -0.0491    | -2.036E-14 | -0.18342    | 1.629E-14    |
| 156   | 1.86781      | 4C26TB     | LinStatic | 4.759E-16  | -0.0491    | -2.036E-14 | -0.18342    | 2.580E-14    |
| 157   | 0.00000      | 4C26TB     | LinStatic | 7.994E-15  | 0.0243     | 2.754E-14  | 0.14026     | 1.957E-14    |
| 157   | 0.46695      | 4C26TB     | LinStatic | 7.994E-15  | 0.0243     | 2.754E-14  | 0.14026     | 6.715E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|-----------|------------|------------|-------------|--------------|
| 157   | 0.93391      | 4C26TB     | LinStatic | 7.994E-15 | 0.0243     | 2.754E-14  | 0.14026     | -6.142E-15   |
| 157   | 1.40086      | 4C26TB     | LinStatic | 7.994E-15 | 0.0243     | 2.754E-14  | 0.14026     | -1.900E-14   |
| 157   | 1.86781      | 4C26TB     | LinStatic | 7.994E-15 | 0.0243     | 2.754E-14  | 0.14026     | -3.186E-14   |
| 158   | 0.00000      | 4C26TB     | LinStatic | 9.822E-15 | -0.4074    | 1.822E-14  | 0.16305     | -8.427E-15   |
| 158   | 0.46695      | 4C26TB     | LinStatic | 9.822E-15 | -0.4074    | 1.822E-14  | 0.16305     | -1.694E-14   |
| 158   | 0.93391      | 4C26TB     | LinStatic | 9.822E-15 | -0.4074    | 1.822E-14  | 0.16305     | -2.544E-14   |
| 158   | 1.40086      | 4C26TB     | LinStatic | 9.822E-15 | -0.4074    | 1.822E-14  | 0.16305     | -3.395E-14   |
| 158   | 1.86781      | 4C26TB     | LinStatic | 9.822E-15 | -0.4074    | 1.822E-14  | 0.16305     | -4.246E-14   |
| 159   | 0.00000      | 4C26TB     | LinStatic | 6.563E-15 | -0.0247    | 4.529E-15  | 0.12653     | -2.630E-14   |
| 159   | 0.46695      | 4C26TB     | LinStatic | 6.563E-15 | -0.0247    | 4.529E-15  | 0.12653     | -2.842E-14   |
| 159   | 0.93391      | 4C26TB     | LinStatic | 6.563E-15 | -0.0247    | 4.529E-15  | 0.12653     | -3.053E-14   |
| 159   | 1.40086      | 4C26TB     | LinStatic | 6.563E-15 | -0.0247    | 4.529E-15  | 0.12653     | -3.265E-14   |
| 159   | 1.86781      | 4C26TB     | LinStatic | 6.563E-15 | -0.0247    | 4.529E-15  | 0.12653     | -3.476E-14   |
| 160   | 0.00000      | 4C26TB     | LinStatic | 3.833E-15 | -0.0035    | -9.375E-15 | 0.02692     | -3.749E-14   |
| 160   | 0.46695      | 4C26TB     | LinStatic | 3.833E-15 | -0.0035    | -9.375E-15 | 0.02692     | -3.312E-14   |
| 160   | 0.93391      | 4C26TB     | LinStatic | 3.833E-15 | -0.0035    | -9.375E-15 | 0.02692     | -2.874E-14   |
| 160   | 1.40086      | 4C26TB     | LinStatic | 3.833E-15 | -0.0035    | -9.375E-15 | 0.02692     | -2.436E-14   |
| 160   | 1.86781      | 4C26TB     | LinStatic | 3.833E-15 | -0.0035    | -9.375E-15 | 0.02692     | -1.998E-14   |
| 161   | 0.00000      | 4C26TB     | LinStatic | 2.137E-15 | 0.0697     | -2.087E-14 | -0.06932    | -3.904E-14   |
| 161   | 0.46695      | 4C26TB     | LinStatic | 2.137E-15 | 0.0697     | -2.087E-14 | -0.06932    | -2.929E-14   |
| 161   | 0.93391      | 4C26TB     | LinStatic | 2.137E-15 | 0.0697     | -2.087E-14 | -0.06932    | -1.955E-14   |
| 161   | 1.40086      | 4C26TB     | LinStatic | 2.137E-15 | 0.0697     | -2.087E-14 | -0.06932    | -9.806E-15   |
| 161   | 1.86781      | 4C26TB     | LinStatic | 2.137E-15 | 0.0697     | -2.087E-14 | -0.06932    | -6.165E-17   |
| 162   | 0.00000      | 4C26TB     | LinStatic | 1.981E-15 | 0.4016     | -2.525E-14 | -0.15193    | -2.963E-14   |
| 162   | 0.46695      | 4C26TB     | LinStatic | 1.981E-15 | 0.4016     | -2.525E-14 | -0.15193    | -1.784E-14   |
| 162   | 0.93391      | 4C26TB     | LinStatic | 1.981E-15 | 0.4016     | -2.525E-14 | -0.15193    | -6.050E-15   |
| 162   | 1.40086      | 4C26TB     | LinStatic | 1.981E-15 | 0.4016     | -2.525E-14 | -0.15193    | 5.739E-15    |
| 162   | 1.86781      | 4C26TB     | LinStatic | 1.981E-15 | 0.4016     | -2.525E-14 | -0.15193    | 1.753E-14    |
| 163   | 0.00000      | 4C26TB     | LinStatic | 1.404E-15 | -0.0331    | -1.691E-14 | -0.15697    | -1.178E-14   |
| 163   | 0.46695      | 4C26TB     | LinStatic | 1.404E-15 | -0.0331    | -1.691E-14 | -0.15697    | -3.881E-15   |
| 163   | 0.93391      | 4C26TB     | LinStatic | 1.404E-15 | -0.0331    | -1.691E-14 | -0.15697    | 4.013E-15    |
| 163   | 1.40086      | 4C26TB     | LinStatic | 1.404E-15 | -0.0331    | -1.691E-14 | -0.15697    | 1.191E-14    |
| 163   | 1.86781      | 4C26TB     | LinStatic | 1.404E-15 | -0.0331    | -1.691E-14 | -0.15697    | 1.980E-14    |
| 164   | 0.00000      | 4C26TB     | LinStatic | 8.972E-15 | 0.0166     | 2.134E-14  | 0.10730     | 1.773E-14    |
| 164   | 0.46695      | 4C26TB     | LinStatic | 8.972E-15 | 0.0166     | 2.134E-14  | 0.10730     | 7.767E-15    |
| 164   | 0.93391      | 4C26TB     | LinStatic | 8.972E-15 | 0.0166     | 2.134E-14  | 0.10730     | -2.197E-15   |
| 164   | 1.40086      | 4C26TB     | LinStatic | 8.972E-15 | 0.0166     | 2.134E-14  | 0.10730     | -1.216E-14   |
| 164   | 1.86781      | 4C26TB     | LinStatic | 8.972E-15 | 0.0166     | 2.134E-14  | 0.10730     | -2.212E-14   |
| 165   | 0.00000      | 4C26TB     | LinStatic | 1.089E-14 | -0.4452    | 1.623E-14  | 0.12758     | -1.195E-15   |
| 165   | 0.46695      | 4C26TB     | LinStatic | 1.089E-14 | -0.4452    | 1.623E-14  | 0.12758     | -8.774E-15   |
| 165   | 0.93391      | 4C26TB     | LinStatic | 1.089E-14 | -0.4452    | 1.623E-14  | 0.12758     | -1.635E-14   |
| 165   | 1.40086      | 4C26TB     | LinStatic | 1.089E-14 | -0.4452    | 1.623E-14  | 0.12758     | -2.393E-14   |
| 165   | 1.86781      | 4C26TB     | LinStatic | 1.089E-14 | -0.4452    | 1.623E-14  | 0.12758     | -3.151E-14   |
| 166   | 0.00000      | 4C26TB     | LinStatic | 7.495E-15 | -0.0530    | 5.186E-15  | 0.10946     | -1.455E-14   |
| 166   | 0.46695      | 4C26TB     | LinStatic | 7.495E-15 | -0.0530    | 5.186E-15  | 0.10946     | -1.697E-14   |
| 166   | 0.93391      | 4C26TB     | LinStatic | 7.495E-15 | -0.0530    | 5.186E-15  | 0.10946     | -1.939E-14   |
| 166   | 1.40086      | 4C26TB     | LinStatic | 7.495E-15 | -0.0530    | 5.186E-15  | 0.10946     | -2.182E-14   |
| 166   | 1.86781      | 4C26TB     | LinStatic | 7.495E-15 | -0.0530    | 5.186E-15  | 0.10946     | -2.424E-14   |
| 167   | 0.00000      | 4C26TB     | LinStatic | 5.010E-15 | -9.007E-04 | -7.481E-15 | 0.03127     | -2.556E-14   |
| 167   | 0.46695      | 4C26TB     | LinStatic | 5.010E-15 | -9.007E-04 | -7.481E-15 | 0.03127     | -2.207E-14   |
| 167   | 0.93391      | 4C26TB     | LinStatic | 5.010E-15 | -9.007E-04 | -7.481E-15 | 0.03127     | -1.858E-14   |
| 167   | 1.40086      | 4C26TB     | LinStatic | 5.010E-15 | -9.007E-04 | -7.481E-15 | 0.03127     | -1.508E-14   |
| 167   | 1.86781      | 4C26TB     | LinStatic | 5.010E-15 | -9.007E-04 | -7.481E-15 | 0.03127     | -1.159E-14   |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|-----------|------------|------------|-------------|--------------|
| 169   | 0.46695      | 4C26TB     | LinStatic | 3.557E-15 | 0.4421     | -2.130E-14 | -0.11496    | -1.431E-14   |
| 169   | 0.93391      | 4C26TB     | LinStatic | 3.557E-15 | 0.4421     | -2.130E-14 | -0.11496    | -4.363E-15   |
| 169   | 1.40086      | 4C26TB     | LinStatic | 3.557E-15 | 0.4421     | -2.130E-14 | -0.11496    | 5.584E-15    |
| 169   | 1.86781      | 4C26TB     | LinStatic | 3.557E-15 | 0.4421     | -2.130E-14 | -0.11496    | 1.553E-14    |
| 170   | 0.00000      | 4C26TB     | LinStatic | 2.954E-15 | -0.0229    | -1.431E-14 | -0.12495    | -1.147E-14   |
| 170   | 0.46695      | 4C26TB     | LinStatic | 2.954E-15 | -0.0229    | -1.431E-14 | -0.12495    | -4.781E-15   |
| 170   | 0.93391      | 4C26TB     | LinStatic | 2.954E-15 | -0.0229    | -1.431E-14 | -0.12495    | 1.903E-15    |
| 170   | 1.40086      | 4C26TB     | LinStatic | 2.954E-15 | -0.0229    | -1.431E-14 | -0.12495    | 8.587E-15    |
| 170   | 1.86781      | 4C26TB     | LinStatic | 2.954E-15 | -0.0229    | -1.431E-14 | -0.12495    | 1.527E-14    |
| 171   | 0.00000      | 4C26TB     | LinStatic | 1.074E-14 | 0.0119     | 1.606E-14  | 0.07057     | 1.576E-14    |
| 171   | 0.46695      | 4C26TB     | LinStatic | 1.074E-14 | 0.0119     | 1.606E-14  | 0.07057     | 8.263E-15    |
| 171   | 0.93391      | 4C26TB     | LinStatic | 1.074E-14 | 0.0119     | 1.606E-14  | 0.07057     | 7.625E-16    |
| 171   | 1.40086      | 4C26TB     | LinStatic | 1.074E-14 | 0.0119     | 1.606E-14  | 0.07057     | -6.738E-15   |
| 171   | 1.86781      | 4C26TB     | LinStatic | 1.074E-14 | 0.0119     | 1.606E-14  | 0.07057     | -1.424E-14   |
| 172   | 0.00000      | 4C26TB     | LinStatic | 1.159E-14 | -0.4735    | 1.419E-14  | 0.08990     | 4.079E-15    |
| 172   | 0.46695      | 4C26TB     | LinStatic | 1.159E-14 | -0.4735    | 1.419E-14  | 0.08990     | -2.548E-15   |
| 172   | 0.93391      | 4C26TB     | LinStatic | 1.159E-14 | -0.4735    | 1.419E-14  | 0.08990     | -9.176E-15   |
| 172   | 1.40086      | 4C26TB     | LinStatic | 1.159E-14 | -0.4735    | 1.419E-14  | 0.08990     | -1.580E-14   |
| 172   | 1.86781      | 4C26TB     | LinStatic | 1.159E-14 | -0.4735    | 1.419E-14  | 0.08990     | -2.243E-14   |
| 173   | 0.00000      | 4C26TB     | LinStatic | 6.485E-15 | -0.0755    | 5.976E-15  | 0.08799     | -4.812E-15   |
| 173   | 0.46695      | 4C26TB     | LinStatic | 6.485E-15 | -0.0755    | 5.976E-15  | 0.08799     | -7.603E-15   |
| 173   | 0.93391      | 4C26TB     | LinStatic | 6.485E-15 | -0.0755    | 5.976E-15  | 0.08799     | -1.039E-14   |
| 173   | 1.40086      | 4C26TB     | LinStatic | 6.485E-15 | -0.0755    | 5.976E-15  | 0.08799     | -1.318E-14   |
| 173   | 1.86781      | 4C26TB     | LinStatic | 6.485E-15 | -0.0755    | 5.976E-15  | 0.08799     | -1.597E-14   |
| 174   | 0.00000      | 4C26TB     | LinStatic | 4.571E-15 | 0.0010     | -5.334E-15 | 0.03520     | -1.569E-14   |
| 174   | 0.46695      | 4C26TB     | LinStatic | 4.571E-15 | 0.0010     | -5.334E-15 | 0.03520     | -1.320E-14   |
| 174   | 0.93391      | 4C26TB     | LinStatic | 4.571E-15 | 0.0010     | -5.334E-15 | 0.03520     | -1.071E-14   |
| 174   | 1.40086      | 4C26TB     | LinStatic | 4.571E-15 | 0.0010     | -5.334E-15 | 0.03520     | -8.221E-15   |
| 174   | 1.86781      | 4C26TB     | LinStatic | 4.571E-15 | 0.0010     | -5.334E-15 | 0.03520     | -5.730E-15   |
| 175   | 0.00000      | 4C26TB     | LinStatic | 2.528E-15 | 0.0959     | -1.445E-14 | -0.01658    | -1.904E-14   |
| 175   | 0.46695      | 4C26TB     | LinStatic | 2.528E-15 | 0.0959     | -1.445E-14 | -0.01658    | -1.230E-14   |
| 175   | 0.93391      | 4C26TB     | LinStatic | 2.528E-15 | 0.0959     | -1.445E-14 | -0.01658    | -5.550E-15   |
| 175   | 1.40086      | 4C26TB     | LinStatic | 2.528E-15 | 0.0959     | -1.445E-14 | -0.01658    | 1.198E-15    |
| 175   | 1.86781      | 4C26TB     | LinStatic | 2.528E-15 | 0.0959     | -1.445E-14 | -0.01658    | 7.945E-15    |
| 176   | 0.00000      | 4C26TB     | LinStatic | 5.218E-15 | 0.4728     | -1.786E-14 | -0.07549    | -1.972E-14   |
| 176   | 0.46695      | 4C26TB     | LinStatic | 5.218E-15 | 0.4728     | -1.786E-14 | -0.07549    | -1.137E-14   |
| 176   | 0.93391      | 4C26TB     | LinStatic | 5.218E-15 | 0.4728     | -1.786E-14 | -0.07549    | -3.032E-15   |
| 176   | 1.40086      | 4C26TB     | LinStatic | 5.218E-15 | 0.4728     | -1.786E-14 | -0.07549    | 5.310E-15    |
| 176   | 1.86781      | 4C26TB     | LinStatic | 5.218E-15 | 0.4728     | -1.786E-14 | -0.07549    | 1.365E-14    |
| 177   | 0.00000      | 4C26TB     | LinStatic | 5.379E-15 | -0.0160    | -1.202E-14 | -0.08874    | -1.104E-14   |
| 177   | 0.46695      | 4C26TB     | LinStatic | 5.379E-15 | -0.0160    | -1.202E-14 | -0.08874    | -5.425E-15   |
| 177   | 0.93391      | 4C26TB     | LinStatic | 5.379E-15 | -0.0160    | -1.202E-14 | -0.08874    | 1.862E-16    |
| 177   | 1.40086      | 4C26TB     | LinStatic | 5.379E-15 | -0.0160    | -1.202E-14 | -0.08874    | 5.797E-15    |
| 177   | 1.86781      | 4C26TB     | LinStatic | 5.379E-15 | -0.0160    | -1.202E-14 | -0.08874    | 1.141E-14    |
| 178   | 0.00000      | 4C26TB     | LinStatic | 1.399E-14 | 0.0094     | 1.049E-14  | 0.03128     | 1.379E-14    |
| 178   | 0.46695      | 4C26TB     | LinStatic | 1.399E-14 | 0.0094     | 1.049E-14  | 0.03128     | 8.893E-15    |
| 178   | 0.93391      | 4C26TB     | LinStatic | 1.399E-14 | 0.0094     | 1.049E-14  | 0.03128     | 3.993E-15    |
| 178   | 1.40086      | 4C26TB     | LinStatic | 1.399E-14 | 0.0094     | 1.049E-14  | 0.03128     | -9.080E-16   |
| 178   | 1.86781      | 4C26TB     | LinStatic | 1.399E-14 | 0.0094     | 1.049E-14  | 0.03128     | -5.809E-15   |
| 179   | 0.00000      | 4C26TB     | LinStatic | 1.243E-14 | -0.4911    | 1.153E-14  | 0.04912     | 7.353E-15    |
| 179   | 0.46695      | 4C26TB     | LinStatic | 1.243E-14 | -0.4911    | 1.153E-14  | 0.04912     | 1.970E-15    |
| 179   | 0.93391      | 4C26TB     | LinStatic | 1.243E-14 | -0.4911    | 1.153E-14  | 0.04912     | -3.412E-15   |
| 179   | 1.40086      | 4C26TB     | LinStatic | 1.243E-14 | -0.4911    | 1.153E-14  | 0.04912     | -8.795E-15   |
| 179   | 1.86781      | 4C26TB     | LinStatic | 1.243E-14 | -0.4911    | 1.153E-14  | 0.04912     | -1.418E-14   |
| 180   | 0.00000      | 4C26TB     | LinStatic | 3.469E-15 | -0.0892    | 6.751E-15  | 0.06401     | 1.854E-15    |
| 180   | 0.46695      | 4C26TB     | LinStatic | 3.469E-15 | -0.0892    | 6.751E-15  | 0.06401     | -1.298E-15   |
| 180   | 0.93391      | 4C26TB     | LinStatic | 3.469E-15 | -0.0892    | 6.751E-15  | 0.06401     | -4.451E-15   |
| 180   | 1.40086      | 4C26TB     | LinStatic | 3.469E-15 | -0.0892    | 6.751E-15  | 0.06401     | -7.603E-15   |
| 180   | 1.86781      | 4C26TB     | LinStatic | 3.469E-15 | -0.0892    | 6.751E-15  | 0.06401     | -1.075E-14   |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 181   | 0.00000      | 4C26TB     | LinStatic | 3.123E-15  | -0.0014    | -2.849E-15 | 0.03743     | -8.874E-15   |
| 181   | 0.46695      | 4C26TB     | LinStatic | 3.123E-15  | -0.0014    | -2.849E-15 | 0.03743     | -7.543E-15   |
| 181   | 0.93391      | 4C26TB     | LinStatic | 3.123E-15  | -0.0014    | -2.849E-15 | 0.03743     | -6.213E-15   |
| 181   | 1.40086      | 4C26TB     | LinStatic | 3.123E-15  | -0.0014    | -2.849E-15 | 0.03743     | -4.883E-15   |
| 181   | 1.86781      | 4C26TB     | LinStatic | 3.123E-15  | -0.0014    | -2.849E-15 | 0.03743     | -3.553E-15   |
| 182   | 0.00000      | 4C26TB     | LinStatic | 7.640E-17  | 0.1024     | -1.017E-14 | 0.01092     | -1.098E-14   |
| 182   | 0.46695      | 4C26TB     | LinStatic | 7.640E-17  | 0.1024     | -1.017E-14 | 0.01092     | -6.229E-15   |
| 182   | 0.93391      | 4C26TB     | LinStatic | 7.640E-17  | 0.1024     | -1.017E-14 | 0.01092     | -1.481E-15   |
| 182   | 1.40086      | 4C26TB     | LinStatic | 7.640E-17  | 0.1024     | -1.017E-14 | 0.01092     | 3.266E-15    |
| 182   | 1.86781      | 4C26TB     | LinStatic | 7.640E-17  | 0.1024     | -1.017E-14 | 0.01092     | 8.014E-15    |
| 183   | 0.00000      | 4C26TB     | LinStatic | 7.205E-15  | 0.4888     | -1.419E-14 | -0.03380    | -1.459E-14   |
| 183   | 0.46695      | 4C26TB     | LinStatic | 7.205E-15  | 0.4888     | -1.419E-14 | -0.03380    | -7.961E-15   |
| 183   | 0.93391      | 4C26TB     | LinStatic | 7.205E-15  | 0.4888     | -1.419E-14 | -0.03380    | -1.335E-15   |
| 183   | 1.40086      | 4C26TB     | LinStatic | 7.205E-15  | 0.4888     | -1.419E-14 | -0.03380    | 5.290E-15    |
| 183   | 1.86781      | 4C26TB     | LinStatic | 7.205E-15  | 0.4888     | -1.419E-14 | -0.03380    | 1.192E-14    |
| 184   | 0.00000      | 4C26TB     | LinStatic | 9.237E-15  | -0.0113    | -9.756E-15 | -0.04971    | -9.279E-15   |
| 184   | 0.46695      | 4C26TB     | LinStatic | 9.237E-15  | -0.0113    | -9.756E-15 | -0.04971    | -4.723E-15   |
| 184   | 0.93391      | 4C26TB     | LinStatic | 9.237E-15  | -0.0113    | -9.756E-15 | -0.04971    | -1.674E-16   |
| 184   | 1.40086      | 4C26TB     | LinStatic | 9.237E-15  | -0.0113    | -9.756E-15 | -0.04971    | 4.388E-15    |
| 184   | 1.86781      | 4C26TB     | LinStatic | 9.237E-15  | -0.0113    | -9.756E-15 | -0.04971    | 8.944E-15    |
| 185   | 0.00000      | 4C26TB     | LinStatic | -6.829E-15 | 0.0089     | 1.045E-14  | -0.00925    | 1.716E-14    |
| 185   | 0.46695      | 4C26TB     | LinStatic | -6.829E-15 | 0.0089     | 1.045E-14  | -0.00925    | 1.228E-14    |
| 185   | 0.93391      | 4C26TB     | LinStatic | -6.829E-15 | 0.0089     | 1.045E-14  | -0.00925    | 7.401E-15    |
| 185   | 1.40086      | 4C26TB     | LinStatic | -6.829E-15 | 0.0089     | 1.045E-14  | -0.00925    | 2.523E-15    |
| 185   | 1.86781      | 4C26TB     | LinStatic | -6.829E-15 | 0.0089     | 1.045E-14  | -0.00925    | -2.355E-15   |
| 186   | 0.00000      | 4C26TB     | LinStatic | 3.576E-14  | -0.4933    | 7.505E-15  | 0.00762     | 5.128E-15    |
| 186   | 0.46695      | 4C26TB     | LinStatic | 3.576E-14  | -0.4933    | 7.505E-15  | 0.00762     | 1.624E-15    |
| 186   | 0.93391      | 4C26TB     | LinStatic | 3.576E-14  | -0.4933    | 7.505E-15  | 0.00762     | -1.881E-15   |
| 186   | 1.40086      | 4C26TB     | LinStatic | 3.576E-14  | -0.4933    | 7.505E-15  | 0.00762     | -5.386E-15   |
| 186   | 1.86781      | 4C26TB     | LinStatic | 3.576E-14  | -0.4933    | 7.505E-15  | 0.00762     | -8.890E-15   |
| 187   | 0.00000      | 4C26TB     | LinStatic | 9.426E-14  | -0.0992    | -3.404E-15 | 0.03841     | -3.468E-15   |
| 187   | 0.46695      | 4C26TB     | LinStatic | 9.426E-14  | -0.0992    | -3.404E-15 | 0.03841     | -1.879E-15   |
| 187   | 0.93391      | 4C26TB     | LinStatic | 9.426E-14  | -0.0992    | -3.404E-15 | 0.03841     | -2.892E-16   |
| 187   | 1.40086      | 4C26TB     | LinStatic | 9.426E-14  | -0.0992    | -3.404E-15 | 0.03841     | 1.300E-15    |
| 187   | 1.86781      | 4C26TB     | LinStatic | 9.426E-14  | -0.0992    | -3.404E-15 | 0.03841     | 2.890E-15    |
| 188   | 0.00000      | 4C26TB     | LinStatic | 1.016E-13  | -3.284E-04 | -8.049E-15 | 0.03783     | -3.254E-15   |
| 188   | 0.46695      | 4C26TB     | LinStatic | 1.016E-13  | -3.284E-04 | -8.049E-15 | 0.03783     | 5.043E-16    |
| 188   | 0.93391      | 4C26TB     | LinStatic | 1.016E-13  | -3.284E-04 | -8.049E-15 | 0.03783     | 4.263E-15    |
| 188   | 1.40086      | 4C26TB     | LinStatic | 1.016E-13  | -3.284E-04 | -8.049E-15 | 0.03783     | 8.021E-15    |
| 188   | 1.86781      | 4C26TB     | LinStatic | 1.016E-13  | -3.284E-04 | -8.049E-15 | 0.03783     | 1.178E-14    |
| 189   | 0.00000      | 4C26TB     | LinStatic | 9.081E-14  | 0.0998     | -1.180E-14 | 0.03842     | -1.403E-15   |
| 189   | 0.46695      | 4C26TB     | LinStatic | 9.081E-14  | 0.0998     | -1.180E-14 | 0.03842     | 4.107E-15    |
| 189   | 0.93391      | 4C26TB     | LinStatic | 9.081E-14  | 0.0998     | -1.180E-14 | 0.03842     | 9.618E-15    |
| 189   | 1.40086      | 4C26TB     | LinStatic | 9.081E-14  | 0.0998     | -1.180E-14 | 0.03842     | 1.513E-14    |
| 189   | 1.86781      | 4C26TB     | LinStatic | 9.081E-14  | 0.0998     | -1.180E-14 | 0.03842     | 2.064E-14    |
| 190   | 0.00000      | 4C26TB     | LinStatic | 3.039E-14  | 0.4929     | -5.584E-15 | 0.00765     | 6.329E-15    |
| 190   | 0.46695      | 4C26TB     | LinStatic | 3.039E-14  | 0.4929     | -5.584E-15 | 0.00765     | 8.936E-15    |
| 190   | 0.93391      | 4C26TB     | LinStatic | 3.039E-14  | 0.4929     | -5.584E-15 | 0.00765     | 1.154E-14    |
| 190   | 1.40086      | 4C26TB     | LinStatic | 3.039E-14  | 0.4929     | -5.584E-15 | 0.00765     | 1.415E-14    |
| 190   | 1.86781      | 4C26TB     | LinStatic | 3.039E-14  | 0.4929     | -5.584E-15 | 0.00765     | 1.676E-14    |
| 191   | 0.00000      | 4C26TB     | LinStatic | -1.120E-14 | -0.0089    | -1.130E-16 | -0.00924    | 6.716E-15    |
| 191   | 0.46695      | 4C26TB     | LinStatic | -1.120E-14 | -0.0089    | -1.130E-16 | -0.00924    | 6.769E-15    |
| 191   | 0.93391      | 4C26TB     | LinStatic | -1.120E-14 | -0.0089    | -1.130E-16 | -0.00924    | 6.822E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 192   | 1.86781      | 4C26TB     | LinStatic | 1.277E-14  | 0.0113     | -4.651E-16 | -0.04972    | 1.713E-14    |
| 193   | 0.00000      | 4C26TB     | LinStatic | 1.094E-14  | -0.4890    | 5.612E-16  | -0.03385    | 1.395E-14    |
| 193   | 0.46695      | 4C26TB     | LinStatic | 1.094E-14  | -0.4890    | 5.612E-16  | -0.03385    | 1.369E-14    |
| 193   | 0.93391      | 4C26TB     | LinStatic | 1.094E-14  | -0.4890    | 5.612E-16  | -0.03385    | 1.343E-14    |
| 193   | 1.40086      | 4C26TB     | LinStatic | 1.094E-14  | -0.4890    | 5.612E-16  | -0.03385    | 1.316E-14    |
| 193   | 1.86781      | 4C26TB     | LinStatic | 1.094E-14  | -0.4890    | 5.612E-16  | -0.03385    | 1.290E-14    |
| 194   | 0.00000      | 4C26TB     | LinStatic | 1.558E-15  | -0.1019    | 1.597E-15  | 0.01097     | 1.298E-14    |
| 194   | 0.46695      | 4C26TB     | LinStatic | 1.558E-15  | -0.1019    | 1.597E-15  | 0.01097     | 1.224E-14    |
| 194   | 0.93391      | 4C26TB     | LinStatic | 1.558E-15  | -0.1019    | 1.597E-15  | 0.01097     | 1.149E-14    |
| 194   | 1.40086      | 4C26TB     | LinStatic | 1.558E-15  | -0.1019    | 1.597E-15  | 0.01097     | 1.075E-14    |
| 194   | 1.86781      | 4C26TB     | LinStatic | 1.558E-15  | -0.1019    | 1.597E-15  | 0.01097     | 9.999E-15    |
| 195   | 0.00000      | 4C26TB     | LinStatic | 1.052E-15  | 8.665E-04  | 9.286E-16  | 0.03737     | 1.476E-14    |
| 195   | 0.46695      | 4C26TB     | LinStatic | 1.052E-15  | 8.665E-04  | 9.286E-16  | 0.03737     | 1.433E-14    |
| 195   | 0.93391      | 4C26TB     | LinStatic | 1.052E-15  | 8.665E-04  | 9.286E-16  | 0.03737     | 1.390E-14    |
| 195   | 1.40086      | 4C26TB     | LinStatic | 1.052E-15  | 8.665E-04  | 9.286E-16  | 0.03737     | 1.346E-14    |
| 195   | 1.86781      | 4C26TB     | LinStatic | 1.052E-15  | 8.665E-04  | 9.286E-16  | 0.03737     | 1.303E-14    |
| 196   | 0.00000      | 4C26TB     | LinStatic | -1.984E-15 | 0.0897     | 1.389E-15  | 0.06409     | 1.253E-14    |
| 196   | 0.46695      | 4C26TB     | LinStatic | -1.984E-15 | 0.0897     | 1.389E-15  | 0.06409     | 1.188E-14    |
| 196   | 0.93391      | 4C26TB     | LinStatic | -1.984E-15 | 0.0897     | 1.389E-15  | 0.06409     | 1.123E-14    |
| 196   | 1.40086      | 4C26TB     | LinStatic | -1.984E-15 | 0.0897     | 1.389E-15  | 0.06409     | 1.058E-14    |
| 196   | 1.86781      | 4C26TB     | LinStatic | -1.984E-15 | 0.0897     | 1.389E-15  | 0.06409     | 9.933E-15    |
| 197   | 0.00000      | 4C26TB     | LinStatic | 5.462E-15  | 0.4907     | -4.914E-16 | 0.04911     | 9.147E-15    |
| 197   | 0.46695      | 4C26TB     | LinStatic | 5.462E-15  | 0.4907     | -4.914E-16 | 0.04911     | 9.376E-15    |
| 197   | 0.93391      | 4C26TB     | LinStatic | 5.462E-15  | 0.4907     | -4.914E-16 | 0.04911     | 9.606E-15    |
| 197   | 1.40086      | 4C26TB     | LinStatic | 5.462E-15  | 0.4907     | -4.914E-16 | 0.04911     | 9.835E-15    |
| 197   | 1.86781      | 4C26TB     | LinStatic | 5.462E-15  | 0.4907     | -4.914E-16 | 0.04911     | 1.006E-14    |
| 198   | 0.00000      | 4C26TB     | LinStatic | 8.683E-15  | -0.0094    | -2.002E-15 | 0.03128     | 5.538E-15    |
| 198   | 0.46695      | 4C26TB     | LinStatic | 8.683E-15  | -0.0094    | -2.002E-15 | 0.03128     | 6.473E-15    |
| 198   | 0.93391      | 4C26TB     | LinStatic | 8.683E-15  | -0.0094    | -2.002E-15 | 0.03128     | 7.408E-15    |
| 198   | 1.40086      | 4C26TB     | LinStatic | 8.683E-15  | -0.0094    | -2.002E-15 | 0.03128     | 8.343E-15    |
| 198   | 1.86781      | 4C26TB     | LinStatic | 8.683E-15  | -0.0094    | -2.002E-15 | 0.03128     | 9.277E-15    |
| 199   | 0.00000      | 4C26TB     | LinStatic | 8.226E-15  | 0.0160     | -3.332E-15 | -0.08875    | 1.506E-14    |
| 199   | 0.46695      | 4C26TB     | LinStatic | 8.226E-15  | 0.0160     | -3.332E-15 | -0.08875    | 1.662E-14    |
| 199   | 0.93391      | 4C26TB     | LinStatic | 8.226E-15  | 0.0160     | -3.332E-15 | -0.08875    | 1.817E-14    |
| 199   | 1.40086      | 4C26TB     | LinStatic | 8.226E-15  | 0.0160     | -3.332E-15 | -0.08875    | 1.973E-14    |
| 199   | 1.86781      | 4C26TB     | LinStatic | 8.226E-15  | 0.0160     | -3.332E-15 | -0.08875    | 2.128E-14    |
| 200   | 0.00000      | 4C26TB     | LinStatic | 7.575E-15  | -0.4728    | -6.996E-16 | -0.07555    | 1.552E-14    |
| 200   | 0.46695      | 4C26TB     | LinStatic | 7.575E-15  | -0.4728    | -6.996E-16 | -0.07555    | 1.585E-14    |
| 200   | 0.93391      | 4C26TB     | LinStatic | 7.575E-15  | -0.4728    | -6.996E-16 | -0.07555    | 1.618E-14    |
| 200   | 1.40086      | 4C26TB     | LinStatic | 7.575E-15  | -0.4728    | -6.996E-16 | -0.07555    | 1.650E-14    |
| 200   | 1.86781      | 4C26TB     | LinStatic | 7.575E-15  | -0.4728    | -6.996E-16 | -0.07555    | 1.683E-14    |
| 201   | 0.00000      | 4C26TB     | LinStatic | 2.254E-15  | -0.0958    | 1.159E-15  | -0.01651    | 1.573E-14    |
| 201   | 0.46695      | 4C26TB     | LinStatic | 2.254E-15  | -0.0958    | 1.159E-15  | -0.01651    | 1.519E-14    |
| 201   | 0.93391      | 4C26TB     | LinStatic | 2.254E-15  | -0.0958    | 1.159E-15  | -0.01651    | 1.465E-14    |
| 201   | 1.40086      | 4C26TB     | LinStatic | 2.254E-15  | -0.0958    | 1.159E-15  | -0.01651    | 1.411E-14    |
| 201   | 1.86781      | 4C26TB     | LinStatic | 2.254E-15  | -0.0958    | 1.159E-15  | -0.01651    | 1.357E-14    |
| 202   | 0.00000      | 4C26TB     | LinStatic | 5.317E-16  | -0.0011    | 2.362E-15  | 0.03514     | 1.774E-14    |
| 202   | 0.46695      | 4C26TB     | LinStatic | 5.317E-16  | -0.0011    | 2.362E-15  | 0.03514     | 1.664E-14    |
| 202   | 0.93391      | 4C26TB     | LinStatic | 5.317E-16  | -0.0011    | 2.362E-15  | 0.03514     | 1.553E-14    |
| 202   | 1.40086      | 4C26TB     | LinStatic | 5.317E-16  | -0.0011    | 2.362E-15  | 0.03514     | 1.443E-14    |
| 202   | 1.86781      | 4C26TB     | LinStatic | 5.317E-16  | -0.0011    | 2.362E-15  | 0.03514     | 1.333E-14    |
| 203   | 0.00000      | 4C26TB     | LinStatic | -8.048E-16 | 0.0756     | 3.481E-15  | 0.08807     | 1.624E-14    |
| 203   | 0.46695      | 4C26TB     | LinStatic | -8.048E-16 | 0.0756     | 3.481E-15  | 0.08807     | 1.462E-14    |
| 203   | 0.93391      | 4C26TB     | LinStatic | -8.048E-16 | 0.0756     | 3.481E-15  | 0.08807     | 1.299E-14    |
| 203   | 1.40086      | 4C26TB     | LinStatic | -8.048E-16 | 0.0756     | 3.481E-15  | 0.08807     | 1.137E-14    |
| 203   | 1.86781      | 4C26TB     | LinStatic | -8.048E-16 | 0.0756     | 3.481E-15  | 0.08807     | 9.740E-15    |
| 204   | 0.00000      | 4C26TB     | LinStatic | 2.919E-15  | 0.4734     | 2.715E-15  | 0.08988     | 1.330E-14    |
| 204   | 0.46695      | 4C26TB     | LinStatic | 2.919E-15  | 0.4734     | 2.715E-15  | 0.08988     | 1.203E-14    |
| 204   | 0.93391      | 4C26TB     | LinStatic | 2.919E-15  | 0.4734     | 2.715E-15  | 0.08988     | 1.076E-14    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P          | V2        | V3         | T        | M2        |
|-------|--------------|------------|-----------|------------|-----------|------------|----------|-----------|
|       |              |            |           | Tonf       | Tonf      | Tonf       | Tonf-m   | Tonf-m    |
| 204   | 1.40086      | 4C26TB     | LinStatic | 2.919E-15  | 0.4734    | 2.715E-15  | 0.08988  | 9.496E-15 |
| 204   | 1.86781      | 4C26TB     | LinStatic | 2.919E-15  | 0.4734    | 2.715E-15  | 0.08988  | 8.228E-15 |
| 205   | 0.00000      | 4C26TB     | LinStatic | 4.452E-15  | -0.0118   | 8.583E-16  | 0.07057  | 8.007E-15 |
| 205   | 0.46695      | 4C26TB     | LinStatic | 4.452E-15  | -0.0118   | 8.583E-16  | 0.07057  | 7.606E-15 |
| 205   | 0.93391      | 4C26TB     | LinStatic | 4.452E-15  | -0.0118   | 8.583E-16  | 0.07057  | 7.205E-15 |
| 205   | 1.40086      | 4C26TB     | LinStatic | 4.452E-15  | -0.0118   | 8.583E-16  | 0.07057  | 6.804E-15 |
| 205   | 1.86781      | 4C26TB     | LinStatic | 4.452E-15  | -0.0118   | 8.583E-16  | 0.07057  | 6.403E-15 |
| 206   | 0.00000      | 4C26TB     | LinStatic | 5.372E-15  | 0.0228    | -5.566E-15 | -0.12496 | 1.259E-14 |
| 206   | 0.46695      | 4C26TB     | LinStatic | 5.372E-15  | 0.0228    | -5.566E-15 | -0.12496 | 1.518E-14 |
| 206   | 0.93391      | 4C26TB     | LinStatic | 5.372E-15  | 0.0228    | -5.566E-15 | -0.12496 | 1.778E-14 |
| 206   | 1.40086      | 4C26TB     | LinStatic | 5.372E-15  | 0.0228    | -5.566E-15 | -0.12496 | 2.038E-14 |
| 206   | 1.86781      | 4C26TB     | LinStatic | 5.372E-15  | 0.0228    | -5.566E-15 | -0.12496 | 2.298E-14 |
| 207   | 0.00000      | 4C26TB     | LinStatic | 4.871E-15  | -0.4419   | -1.184E-15 | -0.11500 | 1.670E-14 |
| 207   | 0.46695      | 4C26TB     | LinStatic | 4.871E-15  | -0.4419   | -1.184E-15 | -0.11500 | 1.725E-14 |
| 207   | 0.93391      | 4C26TB     | LinStatic | 4.871E-15  | -0.4419   | -1.184E-15 | -0.11500 | 1.780E-14 |
| 207   | 1.40086      | 4C26TB     | LinStatic | 4.871E-15  | -0.4419   | -1.184E-15 | -0.11500 | 1.835E-14 |
| 207   | 1.86781      | 4C26TB     | LinStatic | 4.871E-15  | -0.4419   | -1.184E-15 | -0.11500 | 1.891E-14 |
| 208   | 0.00000      | 4C26TB     | LinStatic | 1.350E-15  | -0.0861   | 1.713E-15  | -0.04321 | 1.991E-14 |
| 208   | 0.46695      | 4C26TB     | LinStatic | 1.350E-15  | -0.0861   | 1.713E-15  | -0.04321 | 1.911E-14 |
| 208   | 0.93391      | 4C26TB     | LinStatic | 1.350E-15  | -0.0861   | 1.713E-15  | -0.04321 | 1.831E-14 |
| 208   | 1.40086      | 4C26TB     | LinStatic | 1.350E-15  | -0.0861   | 1.713E-15  | -0.04321 | 1.751E-14 |
| 208   | 1.86781      | 4C26TB     | LinStatic | 1.350E-15  | -0.0861   | 1.713E-15  | -0.04321 | 1.671E-14 |
| 209   | 0.00000      | 4C26TB     | LinStatic | -6.245E-16 | 9.933E-04 | 3.747E-15  | 0.03124  | 2.199E-14 |
| 209   | 0.46695      | 4C26TB     | LinStatic | -6.245E-16 | 9.933E-04 | 3.747E-15  | 0.03124  | 2.024E-14 |
| 209   | 0.93391      | 4C26TB     | LinStatic | -6.245E-16 | 9.933E-04 | 3.747E-15  | 0.03124  | 1.849E-14 |
| 209   | 1.40086      | 4C26TB     | LinStatic | -6.245E-16 | 9.933E-04 | 3.747E-15  | 0.03124  | 1.674E-14 |
| 209   | 1.86781      | 4C26TB     | LinStatic | -6.245E-16 | 9.933E-04 | 3.747E-15  | 0.03124  | 1.499E-14 |
| 210   | 0.00000      | 4C26TB     | LinStatic | -1.388E-15 | 0.0530    | 4.987E-15  | 0.10950  | 2.074E-14 |
| 210   | 0.46695      | 4C26TB     | LinStatic | -1.388E-15 | 0.0530    | 4.987E-15  | 0.10950  | 1.841E-14 |
| 210   | 0.93391      | 4C26TB     | LinStatic | -1.388E-15 | 0.0530    | 4.987E-15  | 0.10950  | 1.608E-14 |
| 210   | 1.40086      | 4C26TB     | LinStatic | -1.388E-15 | 0.0530    | 4.987E-15  | 0.10950  | 1.375E-14 |
| 210   | 1.86781      | 4C26TB     | LinStatic | -1.388E-15 | 0.0530    | 4.987E-15  | 0.10950  | 1.142E-14 |
| 211   | 0.00000      | 4C26TB     | LinStatic | 6.386E-16  | 0.4451    | 4.601E-15  | 0.12758  | 1.555E-14 |
| 211   | 0.46695      | 4C26TB     | LinStatic | 6.386E-16  | 0.4451    | 4.601E-15  | 0.12758  | 1.340E-14 |
| 211   | 0.93391      | 4C26TB     | LinStatic | 6.386E-16  | 0.4451    | 4.601E-15  | 0.12758  | 1.125E-14 |
| 211   | 1.40086      | 4C26TB     | LinStatic | 6.386E-16  | 0.4451    | 4.601E-15  | 0.12758  | 9.104E-15 |
| 211   | 1.86781      | 4C26TB     | LinStatic | 6.386E-16  | 0.4451    | 4.601E-15  | 0.12758  | 6.956E-15 |
| 212   | 0.00000      | 4C26TB     | LinStatic | 1.731E-15  | -0.0166   | 2.379E-15  | 0.10730  | 8.078E-15 |
| 212   | 0.46695      | 4C26TB     | LinStatic | 1.731E-15  | -0.0166   | 2.379E-15  | 0.10730  | 6.967E-15 |
| 212   | 0.93391      | 4C26TB     | LinStatic | 1.731E-15  | -0.0166   | 2.379E-15  | 0.10730  | 5.856E-15 |
| 212   | 1.40086      | 4C26TB     | LinStatic | 1.731E-15  | -0.0166   | 2.379E-15  | 0.10730  | 4.745E-15 |
| 212   | 1.86781      | 4C26TB     | LinStatic | 1.731E-15  | -0.0166   | 2.379E-15  | 0.10730  | 3.634E-15 |
| 213   | 0.00000      | 4C26TB     | LinStatic | 3.773E-15  | 0.0330    | -7.286E-15 | -0.15698 | 9.603E-15 |
| 213   | 0.46695      | 4C26TB     | LinStatic | 3.773E-15  | 0.0330    | -7.286E-15 | -0.15698 | 1.301E-14 |
| 213   | 0.93391      | 4C26TB     | LinStatic | 3.773E-15  | 0.0330    | -7.286E-15 | -0.15698 | 1.641E-14 |
| 213   | 1.40086      | 4C26TB     | LinStatic | 3.773E-15  | 0.0330    | -7.286E-15 | -0.15698 | 1.981E-14 |
| 213   | 1.86781      | 4C26TB     | LinStatic | 3.773E-15  | 0.0330    | -7.286E-15 | -0.15698 | 2.321E-14 |
| 214   | 0.00000      | 4C26TB     | LinStatic | 2.526E-15  | -0.4013   | -1.489E-15 | -0.15194 | 1.746E-14 |
| 214   | 0.46695      | 4C26TB     | LinStatic | 2.526E-15  | -0.4013   | -1.489E-15 | -0.15194 | 1.815E-14 |
| 214   | 0.93391      | 4C26TB     | LinStatic | 2.526E-15  | -0.4013   | -1.489E-15 | -0.15194 | 1.885E-14 |
| 214   | 1.40086      | 4C26TB     | LinStatic | 2.526E-15  | -0.4013   | -1.489E-15 | -0.15194 | 1.954E-14 |
| 214   | 1.86781      | 4C26TB     | LinStatic | 2.526E-15  | -0.4013   | -1.489E-15 | -0.15194 | 2.024E-14 |
| 215   | 0.00000      | 4C26TB     | LinStatic | -7.461E-16 | -0.0700   | 2.589E-15  | -0.06930 | 2.415E-14 |
| 215   | 0.46695      | 4C26TB     | LinStatic | -7.461E-16 | -0.0700   | 2.589E-15  | -0.06930 | 2.294E-14 |
| 215   | 0.93391      | 4C26TB     | LinStatic | -7.461E-16 | -0.0700   | 2.589E-15  | -0.06930 | 2.173E-14 |
| 215   | 1.40086      | 4C26TB     | LinStatic | -7.461E-16 | -0.0700   | 2.589E-15  | -0.06930 | 2.052E-14 |
| 215   | 1.86781      | 4C26TB     | LinStatic | -7.461E-16 | -0.0700   | 2.589E-15  | -0.06930 | 1.931E-14 |
| 216   | 0.00000      | 4C26TB     | LinStatic | -2.872E-15 | 0.0036    | 5.128E-15  | 0.02692  | 2.675E-14 |
| 216   | 0.46695      | 4C26TB     | LinStatic | -2.872E-15 | 0.0036    | 5.128E-15  | 0.02692  | 2.436E-14 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 216   | 0.93391      | 4C26TB     | LinStatic | -2.872E-15 | 0.0036     | 5.128E-15  | 0.02692     | 2.196E-14    |
| 216   | 1.40086      | 4C26TB     | LinStatic | -2.872E-15 | 0.0036     | 5.128E-15  | 0.02692     | 1.957E-14    |
| 216   | 1.86781      | 4C26TB     | LinStatic | -2.872E-15 | 0.0036     | 5.128E-15  | 0.02692     | 1.717E-14    |
| 217   | 0.00000      | 4C26TB     | LinStatic | -3.390E-15 | 0.0246     | 6.306E-15  | 0.12655     | 2.520E-14    |
| 217   | 0.46695      | 4C26TB     | LinStatic | -3.390E-15 | 0.0246     | 6.306E-15  | 0.12655     | 2.226E-14    |
| 217   | 0.93391      | 4C26TB     | LinStatic | -3.390E-15 | 0.0246     | 6.306E-15  | 0.12655     | 1.932E-14    |
| 217   | 1.40086      | 4C26TB     | LinStatic | -3.390E-15 | 0.0246     | 6.306E-15  | 0.12655     | 1.637E-14    |
| 217   | 1.86781      | 4C26TB     | LinStatic | -3.390E-15 | 0.0246     | 6.306E-15  | 0.12655     | 1.343E-14    |
| 218   | 0.00000      | 4C26TB     | LinStatic | -1.548E-15 | 0.4073     | 6.082E-15  | 0.16305     | 1.717E-14    |
| 218   | 0.46695      | 4C26TB     | LinStatic | -1.548E-15 | 0.4073     | 6.082E-15  | 0.16305     | 1.433E-14    |
| 218   | 0.93391      | 4C26TB     | LinStatic | -1.548E-15 | 0.4073     | 6.082E-15  | 0.16305     | 1.149E-14    |
| 218   | 1.40086      | 4C26TB     | LinStatic | -1.548E-15 | 0.4073     | 6.082E-15  | 0.16305     | 8.649E-15    |
| 218   | 1.86781      | 4C26TB     | LinStatic | -1.548E-15 | 0.4073     | 6.082E-15  | 0.16305     | 5.809E-15    |
| 219   | 0.00000      | 4C26TB     | LinStatic | -5.705E-17 | -0.0243    | 3.207E-15  | 0.14025     | 7.320E-15    |
| 219   | 0.46695      | 4C26TB     | LinStatic | -5.705E-17 | -0.0243    | 3.207E-15  | 0.14025     | 5.823E-15    |
| 219   | 0.93391      | 4C26TB     | LinStatic | -5.705E-17 | -0.0243    | 3.207E-15  | 0.14025     | 4.326E-15    |
| 219   | 1.40086      | 4C26TB     | LinStatic | -5.705E-17 | -0.0243    | 3.207E-15  | 0.14025     | 2.828E-15    |
| 219   | 1.86781      | 4C26TB     | LinStatic | -5.705E-17 | -0.0243    | 3.207E-15  | 0.14025     | 1.331E-15    |
| 220   | 0.00000      | 4C26TB     | LinStatic | 3.431E-15  | 0.0490     | -8.705E-15 | -0.18342    | 5.437E-15    |
| 220   | 0.46695      | 4C26TB     | LinStatic | 3.431E-15  | 0.0490     | -8.705E-15 | -0.18342    | 9.502E-15    |
| 220   | 0.93391      | 4C26TB     | LinStatic | 3.431E-15  | 0.0490     | -8.705E-15 | -0.18342    | 1.357E-14    |
| 220   | 1.40086      | 4C26TB     | LinStatic | 3.431E-15  | 0.0490     | -8.705E-15 | -0.18342    | 1.763E-14    |
| 220   | 1.86781      | 4C26TB     | LinStatic | 3.431E-15  | 0.0490     | -8.705E-15 | -0.18342    | 2.170E-14    |
| 221   | 0.00000      | 4C26TB     | LinStatic | 4.633E-16  | -0.3424    | -1.793E-15 | -0.18862    | 1.708E-14    |
| 221   | 0.46695      | 4C26TB     | LinStatic | 4.633E-16  | -0.3424    | -1.793E-15 | -0.18862    | 1.791E-14    |
| 221   | 0.93391      | 4C26TB     | LinStatic | 4.633E-16  | -0.3424    | -1.793E-15 | -0.18862    | 1.875E-14    |
| 221   | 1.40086      | 4C26TB     | LinStatic | 4.633E-16  | -0.3424    | -1.793E-15 | -0.18862    | 1.959E-14    |
| 221   | 1.86781      | 4C26TB     | LinStatic | 4.633E-16  | -0.3424    | -1.793E-15 | -0.18862    | 2.043E-14    |
| 222   | 0.00000      | 4C26TB     | LinStatic | -3.948E-15 | -0.0466    | 3.947E-15  | -0.09398    | 2.848E-14    |
| 222   | 0.46695      | 4C26TB     | LinStatic | -3.948E-15 | -0.0466    | 3.947E-15  | -0.09398    | 2.664E-14    |
| 222   | 0.93391      | 4C26TB     | LinStatic | -3.948E-15 | -0.0466    | 3.947E-15  | -0.09398    | 2.480E-14    |
| 222   | 1.40086      | 4C26TB     | LinStatic | -3.948E-15 | -0.0466    | 3.947E-15  | -0.09398    | 2.295E-14    |
| 222   | 1.86781      | 4C26TB     | LinStatic | -3.948E-15 | -0.0466    | 3.947E-15  | -0.09398    | 2.111E-14    |
| 223   | 0.00000      | 4C26TB     | LinStatic | -6.399E-15 | 0.0017     | 6.910E-15  | 0.02251     | 3.180E-14    |
| 223   | 0.46695      | 4C26TB     | LinStatic | -6.399E-15 | 0.0017     | 6.910E-15  | 0.02251     | 2.857E-14    |
| 223   | 0.93391      | 4C26TB     | LinStatic | -6.399E-15 | 0.0017     | 6.910E-15  | 0.02251     | 2.534E-14    |
| 223   | 1.40086      | 4C26TB     | LinStatic | -6.399E-15 | 0.0017     | 6.910E-15  | 0.02251     | 2.212E-14    |
| 223   | 1.86781      | 4C26TB     | LinStatic | -6.399E-15 | 0.0017     | 6.910E-15  | 0.02251     | 1.889E-14    |
| 224   | 0.00000      | 4C26TB     | LinStatic | -6.770E-15 | -0.0074    | 7.919E-15  | 0.13828     | 2.988E-14    |
| 224   | 0.46695      | 4C26TB     | LinStatic | -6.770E-15 | -0.0074    | 7.919E-15  | 0.13828     | 2.618E-14    |
| 224   | 0.93391      | 4C26TB     | LinStatic | -6.770E-15 | -0.0074    | 7.919E-15  | 0.13828     | 2.249E-14    |
| 224   | 1.40086      | 4C26TB     | LinStatic | -6.770E-15 | -0.0074    | 7.919E-15  | 0.13828     | 1.879E-14    |
| 224   | 1.86781      | 4C26TB     | LinStatic | -6.770E-15 | -0.0074    | 7.919E-15  | 0.13828     | 1.509E-14    |
| 225   | 0.00000      | 4C26TB     | LinStatic | -3.782E-15 | 0.3459     | 7.826E-15  | 0.19875     | 1.919E-14    |
| 225   | 0.46695      | 4C26TB     | LinStatic | -3.782E-15 | 0.3459     | 7.826E-15  | 0.19875     | 1.554E-14    |
| 225   | 0.93391      | 4C26TB     | LinStatic | -3.782E-15 | 0.3459     | 7.826E-15  | 0.19875     | 1.188E-14    |
| 225   | 1.40086      | 4C26TB     | LinStatic | -3.782E-15 | 0.3459     | 7.826E-15  | 0.19875     | 8.227E-15    |
| 225   | 1.86781      | 4C26TB     | LinStatic | -3.782E-15 | 0.3459     | 7.826E-15  | 0.19875     | 4.573E-15    |
| 226   | 0.00000      | 4C26TB     | LinStatic | -1.153E-15 | -0.0361    | 3.832E-15  | 0.16830     | 5.989E-15    |
| 226   | 0.46695      | 4C26TB     | LinStatic | -1.153E-15 | -0.0361    | 3.832E-15  | 0.16830     | 4.200E-15    |
| 226   | 0.93391      | 4C26TB     | LinStatic | -1.153E-15 | -0.0361    | 3.832E-15  | 0.16830     | 2.411E-15    |
| 226   | 1.40086      | 4C26TB     | LinStatic | -1.153E-15 | -0.0361    | 3.832E-15  | 0.16830     | 6.214E-16    |
| 226   | 1.86781      | 4C26TB     | LinStatic | -1.153E-15 | -0.0361    | 3.832E-15  | 0.16830     | -1.168E-15   |
| 227   | 0.00000      | 4C26TB     | LinStatic | 4.964E-15  | 0.0813     | -1.043E-14 | -0.20290    | -1.473E-15   |
| 227   | 0.46695      | 4C26TB     | LinStatic | 4.964E-15  | 0.0813     | -1.043E-14 | -0.20290    | 3.396E-15    |
| 227   | 0.93391      | 4C26TB     | LinStatic | 4.964E-15  | 0.0813     | -1.043E-14 | -0.20290    | 8.266E-15    |
| 227   | 1.40086      | 4C26TB     | LinStatic | 4.964E-15  | 0.0813     | -1.043E-14 | -0.20290    | 1.314E-14    |
| 227   | 1.86781      | 4C26TB     | LinStatic | 4.964E-15  | 0.0813     | -1.043E-14 | -0.20290    | 1.801E-14    |
| 228   | 0.00000      | 4C26TB     | LinStatic | -1.119E-15 | -0.2327    | -2.734E-15 | -0.22404    | 1.461E-14    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|---------|------------|-----------|------------|---------|------------|----------|------------|
|       | m       |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 228   | 0.46695 | 4C26TB     | LinStatic | -1.119E-15 | -0.2327 | -2.734E-15 | -0.22404 | 1.588E-14  |
| 228   | 0.93391 | 4C26TB     | LinStatic | -1.119E-15 | -0.2327 | -2.734E-15 | -0.22404 | 1.716E-14  |
| 228   | 1.40086 | 4C26TB     | LinStatic | -1.119E-15 | -0.2327 | -2.734E-15 | -0.22404 | 1.844E-14  |
| 228   | 1.86781 | 4C26TB     | LinStatic | -1.119E-15 | -0.2327 | -2.734E-15 | -0.22404 | 1.971E-14  |
| 229   | 0.00000 | 4C26TB     | LinStatic | -8.413E-15 | -0.0076 | 5.696E-15  | -0.11501 | 3.303E-14  |
| 229   | 0.46695 | 4C26TB     | LinStatic | -8.413E-15 | -0.0076 | 5.696E-15  | -0.11501 | 3.037E-14  |
| 229   | 0.93391 | 4C26TB     | LinStatic | -8.413E-15 | -0.0076 | 5.696E-15  | -0.11501 | 2.771E-14  |
| 229   | 1.40086 | 4C26TB     | LinStatic | -8.413E-15 | -0.0076 | 5.696E-15  | -0.11501 | 2.505E-14  |
| 229   | 1.86781 | 4C26TB     | LinStatic | -8.413E-15 | -0.0076 | 5.696E-15  | -0.11501 | 2.239E-14  |
| 230   | 0.00000 | 4C26TB     | LinStatic | -1.129E-14 | -0.0096 | 9.086E-15  | 0.01716  | 3.618E-14  |
| 230   | 0.46695 | 4C26TB     | LinStatic | -1.129E-14 | -0.0096 | 9.086E-15  | 0.01716  | 3.194E-14  |
| 230   | 0.93391 | 4C26TB     | LinStatic | -1.129E-14 | -0.0096 | 9.086E-15  | 0.01716  | 2.770E-14  |
| 230   | 1.40086 | 4C26TB     | LinStatic | -1.129E-14 | -0.0096 | 9.086E-15  | 0.01716  | 2.345E-14  |
| 230   | 1.86781 | 4C26TB     | LinStatic | -1.129E-14 | -0.0096 | 9.086E-15  | 0.01716  | 1.921E-14  |
| 231   | 0.00000 | 4C26TB     | LinStatic | -1.175E-14 | -0.0425 | 9.952E-15  | 0.14519  | 3.490E-14  |
| 231   | 0.46695 | 4C26TB     | LinStatic | -1.175E-14 | -0.0425 | 9.952E-15  | 0.14519  | 3.025E-14  |
| 231   | 0.93391 | 4C26TB     | LinStatic | -1.175E-14 | -0.0425 | 9.952E-15  | 0.14519  | 2.560E-14  |
| 231   | 1.40086 | 4C26TB     | LinStatic | -1.175E-14 | -0.0425 | 9.952E-15  | 0.14519  | 2.096E-14  |
| 231   | 1.86781 | 4C26TB     | LinStatic | -1.175E-14 | -0.0425 | 9.952E-15  | 0.14519  | 1.631E-14  |
| 232   | 0.00000 | 4C26TB     | LinStatic | -6.203E-15 | 0.2235  | 1.043E-14  | 0.23255  | 2.179E-14  |
| 232   | 0.46695 | 4C26TB     | LinStatic | -6.203E-15 | 0.2235  | 1.043E-14  | 0.23255  | 1.692E-14  |
| 232   | 0.93391 | 4C26TB     | LinStatic | -6.203E-15 | 0.2235  | 1.043E-14  | 0.23255  | 1.205E-14  |
| 232   | 1.40086 | 4C26TB     | LinStatic | -6.203E-15 | 0.2235  | 1.043E-14  | 0.23255  | 7.175E-15  |
| 232   | 1.86781 | 4C26TB     | LinStatic | -6.203E-15 | 0.2235  | 1.043E-14  | 0.23255  | 2.303E-15  |
| 233   | 0.00000 | 4C26TB     | LinStatic | -1.370E-15 | -0.0619 | 4.798E-15  | 0.19037  | 3.829E-15  |
| 233   | 0.46695 | 4C26TB     | LinStatic | -1.370E-15 | -0.0619 | 4.798E-15  | 0.19037  | 1.589E-15  |
| 233   | 0.93391 | 4C26TB     | LinStatic | -1.370E-15 | -0.0619 | 4.798E-15  | 0.19037  | -6.515E-16 |
| 233   | 1.40086 | 4C26TB     | LinStatic | -1.370E-15 | -0.0619 | 4.798E-15  | 0.19037  | -2.892E-15 |
| 233   | 1.86781 | 4C26TB     | LinStatic | -1.370E-15 | -0.0619 | 4.798E-15  | 0.19037  | -5.132E-15 |
| 234   | 0.00000 | 4C26TB     | LinStatic | 9.875E-15  | 0.1721  | -1.418E-14 | -0.21428 | -1.325E-14 |
| 234   | 0.46695 | 4C26TB     | LinStatic | 9.875E-15  | 0.1721  | -1.418E-14 | -0.21428 | -6.634E-15 |
| 234   | 0.93391 | 4C26TB     | LinStatic | 9.875E-15  | 0.1721  | -1.418E-14 | -0.21428 | -1.454E-17 |
| 234   | 1.40086 | 4C26TB     | LinStatic | 9.875E-15  | 0.1721  | -1.418E-14 | -0.21428 | 6.605E-15  |
| 234   | 1.86781 | 4C26TB     | LinStatic | 9.875E-15  | 0.1721  | -1.418E-14 | -0.21428 | 1.322E-14  |
| 235   | 0.00000 | 4C26TB     | LinStatic | -1.971E-15 | -0.0126 | -6.075E-15 | -0.25260 | 8.606E-15  |
| 235   | 0.46695 | 4C26TB     | LinStatic | -1.971E-15 | -0.0126 | -6.075E-15 | -0.25260 | 1.144E-14  |
| 235   | 0.93391 | 4C26TB     | LinStatic | -1.971E-15 | -0.0126 | -6.075E-15 | -0.25260 | 1.428E-14  |
| 235   | 1.40086 | 4C26TB     | LinStatic | -1.971E-15 | -0.0126 | -6.075E-15 | -0.25260 | 1.712E-14  |
| 235   | 1.86781 | 4C26TB     | LinStatic | -1.971E-15 | -0.0126 | -6.075E-15 | -0.25260 | 1.995E-14  |
| 236   | 0.00000 | 4C26TB     | LinStatic | -1.476E-14 | 0.0678  | 7.149E-15  | -0.12969 | 3.722E-14  |
| 236   | 0.46695 | 4C26TB     | LinStatic | -1.476E-14 | 0.0678  | 7.149E-15  | -0.12969 | 3.388E-14  |
| 236   | 0.93391 | 4C26TB     | LinStatic | -1.476E-14 | 0.0678  | 7.149E-15  | -0.12969 | 3.054E-14  |
| 236   | 1.40086 | 4C26TB     | LinStatic | -1.476E-14 | 0.0678  | 7.149E-15  | -0.12969 | 2.721E-14  |
| 236   | 1.86781 | 4C26TB     | LinStatic | -1.476E-14 | 0.0678  | 7.149E-15  | -0.12969 | 2.387E-14  |
| 237   | 0.00000 | 4C26TB     | LinStatic | -1.722E-14 | -0.0212 | 1.107E-14  | 0.01020  | 3.746E-14  |
| 237   | 0.46695 | 4C26TB     | LinStatic | -1.722E-14 | -0.0212 | 1.107E-14  | 0.01020  | 3.229E-14  |
| 237   | 0.93391 | 4C26TB     | LinStatic | -1.722E-14 | -0.0212 | 1.107E-14  | 0.01020  | 2.712E-14  |
| 237   | 1.40086 | 4C26TB     | LinStatic | -1.722E-14 | -0.0212 | 1.107E-14  | 0.01020  | 2.195E-14  |
| 237   | 1.86781 | 4C26TB     | LinStatic | -1.722E-14 | -0.0212 | 1.107E-14  | 0.01020  | 1.678E-14  |
| 238   | 0.00000 | 4C26TB     | LinStatic | -1.894E-14 | -0.1118 | 1.232E-14  | 0.14821  | 3.986E-14  |
| 238   | 0.46695 | 4C26TB     | LinStatic | -1.894E-14 | -0.1118 | 1.232E-14  | 0.14821  | 3.411E-14  |
| 238   | 0.93391 | 4C26TB     | LinStatic | -1.894E-14 | -0.1118 | 1.232E-14  | 0.14821  | 2.836E-14  |
| 238   | 1.40086 | 4C26TB     | LinStatic | -1.894E-14 | -0.1118 | 1.232E-14  | 0.14821  | 2.261E-14  |
| 238   | 1.86781 | 4C26TB     | LinStatic | -1.894E-14 | -0.1118 | 1.232E-14  | 0.14821  | 1.685E-14  |
| 239   | 0.00000 | 4C26TB     | LinStatic | -8.597E-15 | -0.0101 | 1.501E-14  | 0.25780  | 2.486E-14  |
| 239   | 0.46695 | 4C26TB     | LinStatic | -8.597E-15 | -0.0101 | 1.501E-14  | 0.25780  | 1.785E-14  |
| 239   | 0.93391 | 4C26TB     | LinStatic | -8.597E-15 | -0.0101 | 1.501E-14  | 0.25780  | 1.085E-14  |
| 239   | 1.40086 | 4C26TB     | LinStatic | -8.597E-15 | -0.0101 | 1.501E-14  | 0.25780  | 3.841E-15  |
| 239   | 1.86781 | 4C26TB     | LinStatic | -8.597E-15 | -0.0101 | 1.501E-14  | 0.25780  | -3.166E-15 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 240   | 0.00000      | 4C26TB     | LinStatic | 7.146E-17  | -0.1445    | 7.095E-15  | 0.20524     | 8.717E-16    |
| 240   | 0.46695      | 4C26TB     | LinStatic | 7.146E-17  | -0.1445    | 7.095E-15  | 0.20524     | -2.441E-15   |
| 240   | 0.93391      | 4C26TB     | LinStatic | 7.146E-17  | -0.1445    | 7.095E-15  | 0.20524     | -5.754E-15   |
| 240   | 1.40086      | 4C26TB     | LinStatic | 7.146E-17  | -0.1445    | 7.095E-15  | 0.20524     | -9.067E-15   |
| 240   | 1.86781      | 4C26TB     | LinStatic | 7.146E-17  | -0.1445    | 7.095E-15  | 0.20524     | -1.238E-14   |
| 241   | 0.00000      | 4C26TB     | LinStatic | 1.448E-14  | 0.4630     | 9.433E-15  | -0.21695    | 2.520E-14    |
| 241   | 0.46695      | 4C26TB     | LinStatic | 1.448E-14  | 0.4630     | 9.433E-15  | -0.21695    | 2.079E-14    |
| 241   | 0.93391      | 4C26TB     | LinStatic | 1.448E-14  | 0.4630     | 9.433E-15  | -0.21695    | 1.639E-14    |
| 241   | 1.40086      | 4C26TB     | LinStatic | 1.448E-14  | 0.4630     | 9.433E-15  | -0.21695    | 1.198E-14    |
| 241   | 1.86781      | 4C26TB     | LinStatic | 1.448E-14  | 0.4630     | 9.433E-15  | -0.21695    | 7.578E-15    |
| 242   | 0.00000      | 4C26TB     | LinStatic | 3.042E-15  | 0.4657     | 3.705E-14  | -0.26468    | 2.692E-14    |
| 242   | 0.46695      | 4C26TB     | LinStatic | 3.042E-15  | 0.4657     | 3.705E-14  | -0.26468    | 9.618E-15    |
| 242   | 0.93391      | 4C26TB     | LinStatic | 3.042E-15  | 0.4657     | 3.705E-14  | -0.26468    | -7.683E-15   |
| 242   | 1.40086      | 4C26TB     | LinStatic | 3.042E-15  | 0.4657     | 3.705E-14  | -0.26468    | -2.498E-14   |
| 242   | 1.86781      | 4C26TB     | LinStatic | 3.042E-15  | 0.4657     | 3.705E-14  | -0.26468    | -4.228E-14   |
| 243   | 0.00000      | 4C26TB     | LinStatic | 1.406E-15  | 0.2689     | 2.615E-14  | -0.13729    | -1.793E-14   |
| 243   | 0.46695      | 4C26TB     | LinStatic | 1.406E-15  | 0.2689     | 2.615E-14  | -0.13729    | -3.014E-14   |
| 243   | 0.93391      | 4C26TB     | LinStatic | 1.406E-15  | 0.2689     | 2.615E-14  | -0.13729    | -4.235E-14   |
| 243   | 1.40086      | 4C26TB     | LinStatic | 1.406E-15  | 0.2689     | 2.615E-14  | -0.13729    | -5.456E-14   |
| 243   | 1.86781      | 4C26TB     | LinStatic | 1.406E-15  | 0.2689     | 2.615E-14  | -0.13729    | -6.677E-14   |
| 244   | 0.00000      | 4C26TB     | LinStatic | -1.469E-15 | -0.0223    | 9.053E-15  | 0.00442     | -4.341E-14   |
| 244   | 0.46695      | 4C26TB     | LinStatic | -1.469E-15 | -0.0223    | 9.053E-15  | 0.00442     | -4.764E-14   |
| 244   | 0.93391      | 4C26TB     | LinStatic | -1.469E-15 | -0.0223    | 9.053E-15  | 0.00442     | -5.187E-14   |
| 244   | 1.40086      | 4C26TB     | LinStatic | -1.469E-15 | -0.0223    | 9.053E-15  | 0.00442     | -5.610E-14   |
| 244   | 1.86781      | 4C26TB     | LinStatic | -1.469E-15 | -0.0223    | 9.053E-15  | 0.00442     | -6.032E-14   |
| 245   | 0.00000      | 4C26TB     | LinStatic | -4.482E-15 | -0.3090    | -1.004E-14 | 0.14670     | -5.266E-14   |
| 245   | 0.46695      | 4C26TB     | LinStatic | -4.482E-15 | -0.3090    | -1.004E-14 | 0.14670     | -4.797E-14   |
| 245   | 0.93391      | 4C26TB     | LinStatic | -4.482E-15 | -0.3090    | -1.004E-14 | 0.14670     | -4.328E-14   |
| 245   | 1.40086      | 4C26TB     | LinStatic | -4.482E-15 | -0.3090    | -1.004E-14 | 0.14670     | -3.859E-14   |
| 245   | 1.86781      | 4C26TB     | LinStatic | -4.482E-15 | -0.3090    | -1.004E-14 | 0.14670     | -3.390E-14   |
| 246   | 0.00000      | 4C26TB     | LinStatic | -6.633E-15 | -0.4909    | -2.881E-14 | 0.26689     | -3.563E-14   |
| 246   | 0.46695      | 4C26TB     | LinStatic | -6.633E-15 | -0.4909    | -2.881E-14 | 0.26689     | -2.217E-14   |
| 246   | 0.93391      | 4C26TB     | LinStatic | -6.633E-15 | -0.4909    | -2.881E-14 | 0.26689     | -8.718E-15   |
| 246   | 1.40086      | 4C26TB     | LinStatic | -6.633E-15 | -0.4909    | -2.881E-14 | 0.26689     | 4.737E-15    |
| 246   | 1.86781      | 4C26TB     | LinStatic | -6.633E-15 | -0.4909    | -2.881E-14 | 0.26689     | 1.819E-14    |
| 247   | 0.00000      | 4C26TB     | LinStatic | -5.746E-15 | -0.4257    | -1.636E-14 | 0.21136     | 2.938E-16    |
| 247   | 0.46695      | 4C26TB     | LinStatic | -5.746E-15 | -0.4257    | -1.636E-14 | 0.21136     | 7.935E-15    |
| 247   | 0.93391      | 4C26TB     | LinStatic | -5.746E-15 | -0.4257    | -1.636E-14 | 0.21136     | 1.558E-14    |
| 247   | 1.40086      | 4C26TB     | LinStatic | -5.746E-15 | -0.4257    | -1.636E-14 | 0.21136     | 2.322E-14    |
| 247   | 1.86781      | 4C26TB     | LinStatic | -5.746E-15 | -0.4257    | -1.636E-14 | 0.21136     | 3.086E-14    |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 1     | 0.00000      | 4C26TB     | 0.17035      | 1-1       | 0.00000          |
| 1     | 0.48743      | 4C26TB     | 0.01716      | 1-1       | 0.48743          |
| 1     | 0.97485      | 4C26TB     | -0.13603     | 1-1       | 0.97485          |
| 2     | 0.00000      | 4C26TB     | 0.05888      | 2-1       | 0.00000          |
| 2     | 0.48743      | 4C26TB     | -0.02387     | 2-1       | 0.48743          |
| 2     | 0.97485      | 4C26TB     | -0.10661     | 2-1       | 0.97485          |
| 3     | 0.00000      | 4C26TB     | 0.08466      | 3-1       | 0.00000          |
| 3     | 0.48743      | 4C26TB     | 0.03206      | 3-1       | 0.48743          |
| 3     | 0.97485      | 4C26TB     | -0.02054     | 3-1       | 0.97485          |
| 4     | 0.00000      | 4C26TB     | 0.15367      | 4-1       | 0.00000          |
| 4     | 0.48743      | 4C26TB     | 0.11868      | 4-1       | 0.48743          |
| 4     | 0.97485      | 4C26TB     | 0.08369      | 4-1       | 0.97485          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 5     | 0.00000      | 4C26TB     | 0.23273      | 5-1       | 0.00000          |
| 5     | 0.48743      | 4C26TB     | 0.20956      | 5-1       | 0.48743          |
| 5     | 0.97485      | 4C26TB     | 0.18640      | 5-1       | 0.97485          |
| 6     | 0.00000      | 4C26TB     | 0.30434      | 6-1       | 0.00000          |
| 6     | 0.48743      | 4C26TB     | 0.28928      | 6-1       | 0.48743          |
| 6     | 0.97485      | 4C26TB     | 0.27422      | 6-1       | 0.97485          |
| 7     | 0.00000      | 4C26TB     | 0.35659      | 7-1       | 0.00000          |
| 7     | 0.48743      | 4C26TB     | 0.34731      | 7-1       | 0.48743          |
| 7     | 0.97485      | 4C26TB     | 0.33802      | 7-1       | 0.97485          |
| 8     | 0.00000      | 4C26TB     | 0.38171      | 8-1       | 0.00000          |
| 8     | 0.48743      | 4C26TB     | 0.37702      | 8-1       | 0.48743          |
| 8     | 0.97485      | 4C26TB     | 0.37234      | 8-1       | 0.97485          |
| 9     | 0.00000      | 4C26TB     | 0.37561      | 9-1       | 0.00000          |
| 9     | 0.48743      | 4C26TB     | 0.37528      | 9-1       | 0.48743          |
| 9     | 0.97485      | 4C26TB     | 0.37495      | 9-1       | 0.97485          |
| 10    | 0.00000      | 4C26TB     | 0.33735      | 10-1      | 0.00000          |
| 10    | 0.48743      | 4C26TB     | 0.34252      | 10-1      | 0.48743          |
| 10    | 0.97485      | 4C26TB     | 0.34770      | 10-1      | 0.97485          |
| 11    | 0.00000      | 4C26TB     | 0.27016      | 11-1      | 0.00000          |
| 11    | 0.48743      | 4C26TB     | 0.28312      | 11-1      | 0.48743          |
| 11    | 0.97485      | 4C26TB     | 0.29608      | 11-1      | 0.97485          |
| 12    | 0.00000      | 4C26TB     | 0.18091      | 12-1      | 0.00000          |
| 12    | 0.48743      | 4C26TB     | 0.20498      | 12-1      | 0.48743          |
| 12    | 0.97485      | 4C26TB     | 0.22905      | 12-1      | 0.97485          |
| 13    | 0.00000      | 4C26TB     | 0.07974      | 13-1      | 0.00000          |
| 13    | 0.48743      | 4C26TB     | 0.11990      | 13-1      | 0.48743          |
| 13    | 0.97485      | 4C26TB     | 0.16005      | 13-1      | 0.97485          |
| 14    | 0.00000      | 4C26TB     | -0.01886     | 14-1      | 0.00000          |
| 14    | 0.48743      | 4C26TB     | 0.04520      | 14-1      | 0.48743          |
| 14    | 0.97485      | 4C26TB     | 0.10926      | 14-1      | 0.97485          |
| 15    | 0.00000      | 4C26TB     | -0.09452     | 15-1      | 0.00000          |
| 15    | 0.48743      | 4C26TB     | 0.00915      | 15-1      | 0.48743          |
| 15    | 0.97485      | 4C26TB     | 0.11282      | 15-1      | 0.97485          |
| 16    | 0.00000      | 4C26TB     | -0.11407     | 16-1      | 0.00000          |
| 16    | 0.48743      | 4C26TB     | 0.07346      | 16-1      | 0.48743          |
| 16    | 0.97485      | 4C26TB     | 0.26100      | 16-1      | 0.97485          |
| 17    | 0.00000      | 4C26TB     | -0.03911     | 17-1      | 0.00000          |
| 17    | 0.48743      | 4C26TB     | 1.38895      | 17-1      | 0.48743          |
| 17    | 0.97485      | 4C26TB     | 2.81702      | 17-1      | 0.97485          |
| 18    | 0.00000      | 4C26TB     | 2.84663      | 18-1      | 0.00000          |
| 18    | 0.48743      | 4C26TB     | 4.20924      | 18-1      | 0.48743          |
| 18    | 0.97485      | 4C26TB     | 5.57185      | 18-1      | 0.97485          |
| 19    | 0.00000      | 4C26TB     | 5.61771      | 19-1      | 0.00000          |
| 19    | 0.48743      | 4C26TB     | 6.84131      | 19-1      | 0.48743          |
| 19    | 0.97485      | 4C26TB     | 8.06491      | 19-1      | 0.97485          |
| 20    | 0.00000      | 4C26TB     | 8.10955      | 20-1      | 0.00000          |
| 20    | 0.48743      | 4C26TB     | 9.14689      | 20-1      | 0.48743          |
| 20    | 0.97485      | 4C26TB     | 10.18423     | 20-1      | 0.97485          |
| 21    | 0.00000      | 4C26TB     | 10.22529     | 21-1      | 0.00000          |
| 21    | 0.48743      | 4C26TB     | 11.05221     | 21-1      | 0.48743          |
| 21    | 0.97485      | 4C26TB     | 11.87914     | 21-1      | 0.97485          |
| 22    | 0.00000      | 4C26TB     | 11.91997     | 22-1      | 0.00000          |
| 22    | 0.48743      | 4C26TB     | 12.52178     | 22-1      | 0.48743          |
| 22    | 0.97485      | 4C26TB     | 13.12360     | 22-1      | 0.97485          |
| 23    | 0.00000      | 4C26TB     | 13.16534     | 23-1      | 0.00000          |
| 23    | 0.48743      | 4C26TB     | 13.53057     | 23-1      | 0.48743          |
| 23    | 0.97485      | 4C26TB     | 13.89581     | 23-1      | 0.97485          |
| 24    | 0.00000      | 4C26TB     | 13.93731     | 24-1      | 0.00000          |
| 24    | 0.48743      | 4C26TB     | 14.05859     | 24-1      | 0.48743          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 24    | 0.97485 | 4C26TB     | 14.17987 | 24-1      | 0.97485     |
| 25    | 0.00000 | 4C26TB     | 14.22065 | 25-1      | 0.00000     |
| 25    | 0.48743 | 4C26TB     | 14.09713 | 25-1      | 0.48743     |
| 25    | 0.97485 | 4C26TB     | 13.97362 | 25-1      | 0.97485     |
| 26    | 0.00000 | 4C26TB     | 14.01338 | 26-1      | 0.00000     |
| 26    | 0.48743 | 4C26TB     | 13.64603 | 26-1      | 0.48743     |
| 26    | 0.97485 | 4C26TB     | 13.27868 | 26-1      | 0.97485     |
| 27    | 0.00000 | 4C26TB     | 13.31501 | 27-1      | 0.00000     |
| 27    | 0.48743 | 4C26TB     | 12.70940 | 27-1      | 0.48743     |
| 27    | 0.97485 | 4C26TB     | 12.10380 | 27-1      | 0.97485     |
| 28    | 0.00000 | 4C26TB     | 12.13512 | 28-1      | 0.00000     |
| 28    | 0.48743 | 4C26TB     | 11.30303 | 28-1      | 0.48743     |
| 28    | 0.97485 | 4C26TB     | 10.47094 | 28-1      | 0.97485     |
| 29    | 0.00000 | 4C26TB     | 10.49498 | 29-1      | 0.00000     |
| 29    | 0.48743 | 4C26TB     | 9.45118  | 29-1      | 0.48743     |
| 29    | 0.97485 | 4C26TB     | 8.40738  | 29-1      | 0.97485     |
| 30    | 0.00000 | 4C26TB     | 8.41712  | 30-1      | 0.00000     |
| 30    | 0.48743 | 4C26TB     | 7.18251  | 30-1      | 0.48743     |
| 30    | 0.97485 | 4C26TB     | 5.94789  | 30-1      | 0.97485     |
| 31    | 0.00000 | 4C26TB     | 5.93171  | 31-1      | 0.00000     |
| 31    | 0.48743 | 4C26TB     | 4.54408  | 31-1      | 0.48743     |
| 31    | 0.97485 | 4C26TB     | 3.15644  | 31-1      | 0.97485     |
| 32    | 0.00000 | 4C26TB     | 3.09679  | 32-1      | 0.00000     |
| 32    | 0.48743 | 4C26TB     | 1.61917  | 32-1      | 0.48743     |
| 32    | 0.97485 | 4C26TB     | 0.14154  | 32-1      | 0.97485     |
| 33    | 0.00000 | 4C26TB     | -0.20442 | 33-1      | 0.00000     |
| 33    | 0.48743 | 4C26TB     | 4.85081  | 33-1      | 0.48743     |
| 33    | 0.97485 | 4C26TB     | 9.90605  | 33-1      | 0.97485     |
| 34    | 0.00000 | 4C26TB     | 9.77436  | 34-1      | 0.00000     |
| 34    | 0.48743 | 4C26TB     | 13.20717 | 34-1      | 0.48743     |
| 34    | 0.97485 | 4C26TB     | 16.63999 | 34-1      | 0.97485     |
| 35    | 0.00000 | 4C26TB     | 16.55409 | 35-1      | 0.00000     |
| 35    | 0.48743 | 4C26TB     | 18.70778 | 35-1      | 0.48743     |
| 35    | 0.97485 | 4C26TB     | 20.86147 | 35-1      | 0.97485     |
| 36    | 0.00000 | 4C26TB     | 20.81199 | 36-1      | 0.00000     |
| 36    | 0.48743 | 4C26TB     | 21.58786 | 36-1      | 0.48743     |
| 36    | 0.97485 | 4C26TB     | 22.36373 | 36-1      | 0.97485     |
| 37    | 0.00000 | 4C26TB     | 22.34224 | 37-1      | 0.00000     |
| 37    | 0.48743 | 4C26TB     | 23.30465 | 37-1      | 0.48743     |
| 37    | 0.97485 | 4C26TB     | 24.26706 | 37-1      | 0.97485     |
| 38    | 0.00000 | 4C26TB     | 24.26624 | 38-1      | 0.00000     |
| 38    | 0.48743 | 4C26TB     | 25.41982 | 38-1      | 0.48743     |
| 38    | 0.97485 | 4C26TB     | 26.57340 | 38-1      | 0.97485     |
| 39    | 0.00000 | 4C26TB     | 26.59064 | 39-1      | 0.00000     |
| 39    | 0.48743 | 4C26TB     | 27.37769 | 39-1      | 0.48743     |
| 39    | 0.97485 | 4C26TB     | 28.16474 | 39-1      | 0.97485     |
| 40    | 0.00000 | 4C26TB     | 28.19992 | 40-1      | 0.00000     |
| 40    | 0.48743 | 4C26TB     | 28.03740 | 40-1      | 0.48743     |
| 40    | 0.97485 | 4C26TB     | 27.87487 | 40-1      | 0.97485     |
| 41    | 0.00000 | 4C26TB     | 27.92639 | 41-1      | 0.00000     |
| 41    | 0.48743 | 4C26TB     | 27.95596 | 41-1      | 0.48743     |
| 41    | 0.97485 | 4C26TB     | 27.98554 | 41-1      | 0.97485     |
| 42    | 0.00000 | 4C26TB     | 28.05135 | 42-1      | 0.00000     |
| 42    | 0.48743 | 4C26TB     | 27.47994 | 42-1      | 0.48743     |
| 42    | 0.97485 | 4C26TB     | 26.90854 | 42-1      | 0.97485     |
| 43    | 0.00000 | 4C26TB     | 26.98801 | 43-1      | 0.00000     |
| 43    | 0.48743 | 4C26TB     | 25.68401 | 43-1      | 0.48743     |
| 43    | 0.97485 | 4C26TB     | 24.38001 | 43-1      | 0.97485     |
| 44    | 0.00000 | 4C26TB     | 24.47103 | 44-1      | 0.00000     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 44    | 0.48743 | 4C26TB     | 23.34047 | 44-1      | 0.48743     |
| 44    | 0.97485 | 4C26TB     | 22.20990 | 44-1      | 0.97485     |
| 45    | 0.00000 | 4C26TB     | 22.31013 | 45-1      | 0.00000     |
| 45    | 0.48743 | 4C26TB     | 21.34109 | 45-1      | 0.48743     |
| 45    | 0.97485 | 4C26TB     | 20.37205 | 45-1      | 0.97485     |
| 46    | 0.00000 | 4C26TB     | 20.48126 | 46-1      | 0.00000     |
| 46    | 0.48743 | 4C26TB     | 18.60847 | 46-1      | 0.48743     |
| 46    | 0.97485 | 4C26TB     | 16.73567 | 46-1      | 0.97485     |
| 47    | 0.00000 | 4C26TB     | 16.85073 | 47-1      | 0.00000     |
| 47    | 0.48743 | 4C26TB     | 13.65459 | 47-1      | 0.48743     |
| 47    | 0.97485 | 4C26TB     | 10.45845 | 47-1      | 0.97485     |
| 48    | 0.00000 | 4C26TB     | 10.56467 | 48-1      | 0.00000     |
| 48    | 0.48743 | 4C26TB     | 5.25813  | 48-1      | 0.48743     |
| 48    | 0.97485 | 4C26TB     | -0.04842 | 48-1      | 0.97485     |
| 49    | 0.00000 | 4C26TB     | -0.17275 | 49-1      | 0.00000     |
| 49    | 0.48743 | 4C26TB     | 6.14209  | 49-1      | 0.48743     |
| 49    | 0.97485 | 4C26TB     | 12.45693 | 49-1      | 0.97485     |
| 50    | 0.00000 | 4C26TB     | 12.30825 | 50-1      | 0.00000     |
| 50    | 0.48743 | 4C26TB     | 16.42947 | 50-1      | 0.48743     |
| 50    | 0.97485 | 4C26TB     | 20.55069 | 50-1      | 0.97485     |
| 51    | 0.00000 | 4C26TB     | 20.41987 | 51-1      | 0.00000     |
| 51    | 0.48743 | 4C26TB     | 23.11650 | 51-1      | 0.48743     |
| 51    | 0.97485 | 4C26TB     | 25.81314 | 51-1      | 0.97485     |
| 52    | 0.00000 | 4C26TB     | 25.69856 | 52-1      | 0.00000     |
| 52    | 0.48743 | 4C26TB     | 27.31857 | 52-1      | 0.48743     |
| 52    | 0.97485 | 4C26TB     | 28.93858 | 52-1      | 0.97485     |
| 53    | 0.00000 | 4C26TB     | 28.84256 | 53-1      | 0.00000     |
| 53    | 0.48743 | 4C26TB     | 30.47293 | 53-1      | 0.48743     |
| 53    | 0.97485 | 4C26TB     | 32.10331 | 53-1      | 0.97485     |
| 54    | 0.00000 | 4C26TB     | 32.03024 | 54-1      | 0.00000     |
| 54    | 0.48743 | 4C26TB     | 33.68601 | 54-1      | 0.48743     |
| 54    | 0.97485 | 4C26TB     | 35.34178 | 54-1      | 0.97485     |
| 55    | 0.00000 | 4C26TB     | 35.29528 | 55-1      | 0.00000     |
| 55    | 0.48743 | 4C26TB     | 36.07198 | 55-1      | 0.48743     |
| 55    | 0.97485 | 4C26TB     | 36.84869 | 55-1      | 0.97485     |
| 56    | 0.00000 | 4C26TB     | 36.82938 | 56-1      | 0.00000     |
| 56    | 0.48743 | 4C26TB     | 36.85925 | 56-1      | 0.48743     |
| 56    | 0.97485 | 4C26TB     | 36.88912 | 56-1      | 0.97485     |
| 57    | 0.00000 | 4C26TB     | 36.89641 | 57-1      | 0.00000     |
| 57    | 0.48743 | 4C26TB     | 36.97446 | 57-1      | 0.48743     |
| 57    | 0.97485 | 4C26TB     | 37.05250 | 57-1      | 0.97485     |
| 58    | 0.00000 | 4C26TB     | 37.08705 | 58-1      | 0.00000     |
| 58    | 0.48743 | 4C26TB     | 36.08925 | 58-1      | 0.48743     |
| 58    | 0.97485 | 4C26TB     | 35.09144 | 58-1      | 0.97485     |
| 59    | 0.00000 | 4C26TB     | 35.15127 | 59-1      | 0.00000     |
| 59    | 0.48743 | 4C26TB     | 33.61957 | 59-1      | 0.48743     |
| 59    | 0.97485 | 4C26TB     | 32.08786 | 59-1      | 0.97485     |
| 60    | 0.00000 | 4C26TB     | 32.17005 | 60-1      | 0.00000     |
| 60    | 0.48743 | 4C26TB     | 30.68077 | 60-1      | 0.48743     |
| 60    | 0.97485 | 4C26TB     | 29.19150 | 60-1      | 0.97485     |
| 61    | 0.00000 | 4C26TB     | 29.29445 | 61-1      | 0.00000     |
| 61    | 0.48743 | 4C26TB     | 27.84105 | 61-1      | 0.48743     |
| 61    | 0.97485 | 4C26TB     | 26.38765 | 61-1      | 0.97485     |
| 62    | 0.00000 | 4C26TB     | 26.50954 | 62-1      | 0.00000     |
| 62    | 0.48743 | 4C26TB     | 23.55402 | 62-1      | 0.48743     |
| 62    | 0.97485 | 4C26TB     | 20.59851 | 62-1      | 0.97485     |
| 63    | 0.00000 | 4C26TB     | 20.73372 | 63-1      | 0.00000     |
| 63    | 0.48743 | 4C26TB     | 16.34421 | 63-1      | 0.48743     |
| 63    | 0.97485 | 4C26TB     | 11.95470 | 63-1      | 0.97485     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 64    | 0.00000      | 4C26TB     | 12.09125     | 64-1      | 0.00000          |
| 64    | 0.48743      | 4C26TB     | 5.98649      | 64-1      | 0.48743          |
| 64    | 0.97485      | 4C26TB     | -0.11826     | 64-1      | 0.97485          |
| 65    | 0.00000      | 4C26TB     | -0.11822     | 65-1      | 0.00000          |
| 65    | 0.48743      | 4C26TB     | 5.98199      | 65-1      | 0.48743          |
| 65    | 0.97485      | 4C26TB     | 12.08220     | 65-1      | 0.97485          |
| 66    | 0.00000      | 4C26TB     | 11.94569     | 66-1      | 0.00000          |
| 66    | 0.48743      | 4C26TB     | 16.33058     | 66-1      | 0.48743          |
| 66    | 0.97485      | 4C26TB     | 20.71548     | 66-1      | 0.97485          |
| 67    | 0.00000      | 4C26TB     | 20.58028     | 67-1      | 0.00000          |
| 67    | 0.48743      | 4C26TB     | 23.55543     | 67-1      | 0.48743          |
| 67    | 0.97485      | 4C26TB     | 26.53057     | 67-1      | 0.97485          |
| 68    | 0.00000      | 4C26TB     | 26.40868     | 68-1      | 0.00000          |
| 68    | 0.48743      | 4C26TB     | 27.85715     | 68-1      | 0.48743          |
| 68    | 0.97485      | 4C26TB     | 29.30562     | 68-1      | 0.97485          |
| 69    | 0.00000      | 4C26TB     | 29.20264     | 69-1      | 0.00000          |
| 69    | 0.48743      | 4C26TB     | 30.68679     | 69-1      | 0.48743          |
| 69    | 0.97485      | 4C26TB     | 32.17094     | 69-1      | 0.97485          |
| 70    | 0.00000      | 4C26TB     | 32.08868     | 70-1      | 0.00000          |
| 70    | 0.48743      | 4C26TB     | 33.61517     | 70-1      | 0.48743          |
| 70    | 0.97485      | 4C26TB     | 35.14165     | 70-1      | 0.97485          |
| 71    | 0.00000      | 4C26TB     | 35.08167     | 71-1      | 0.00000          |
| 71    | 0.48743      | 4C26TB     | 36.09386     | 71-1      | 0.48743          |
| 71    | 0.97485      | 4C26TB     | 37.10605     | 71-1      | 0.97485          |
| 72    | 0.00000      | 4C26TB     | 37.07138     | 72-1      | 0.00000          |
| 72    | 0.48743      | 4C26TB     | 36.98872     | 72-1      | 0.48743          |
| 72    | 0.97485      | 4C26TB     | 36.90605     | 72-1      | 0.97485          |
| 73    | 0.00000      | 4C26TB     | 36.89877     | 73-1      | 0.00000          |
| 73    | 0.48743      | 4C26TB     | 36.86490     | 73-1      | 0.48743          |
| 73    | 0.97485      | 4C26TB     | 36.83103     | 73-1      | 0.97485          |
| 74    | 0.00000      | 4C26TB     | 36.85047     | 74-1      | 0.00000          |
| 74    | 0.48743      | 4C26TB     | 36.07028     | 74-1      | 0.48743          |
| 74    | 0.97485      | 4C26TB     | 35.29009     | 74-1      | 0.97485          |
| 75    | 0.00000      | 4C26TB     | 35.33674     | 75-1      | 0.00000          |
| 75    | 0.48743      | 4C26TB     | 33.67761     | 75-1      | 0.48743          |
| 75    | 0.97485      | 4C26TB     | 32.01848     | 75-1      | 0.97485          |
| 76    | 0.00000      | 4C26TB     | 32.09163     | 76-1      | 0.00000          |
| 76    | 0.48743      | 4C26TB     | 30.45783     | 76-1      | 0.48743          |
| 76    | 0.97485      | 4C26TB     | 28.82403     | 76-1      | 0.97485          |
| 77    | 0.00000      | 4C26TB     | 28.92008     | 77-1      | 0.00000          |
| 77    | 0.48743      | 4C26TB     | 27.29650     | 77-1      | 0.48743          |
| 77    | 0.97485      | 4C26TB     | 25.67293     | 77-1      | 0.97485          |
| 78    | 0.00000      | 4C26TB     | 25.78749     | 78-1      | 0.00000          |
| 78    | 0.48743      | 4C26TB     | 23.11151     | 78-1      | 0.48743          |
| 78    | 0.97485      | 4C26TB     | 20.43553     | 78-1      | 0.97485          |
| 79    | 0.00000      | 4C26TB     | 20.56632     | 79-1      | 0.00000          |
| 79    | 0.48743      | 4C26TB     | 16.44125     | 79-1      | 0.48743          |
| 79    | 0.97485      | 4C26TB     | 12.31618     | 79-1      | 0.97485          |
| 80    | 0.00000      | 4C26TB     | 12.46482     | 80-1      | 0.00000          |
| 80    | 0.48743      | 4C26TB     | 6.14606      | 80-1      | 0.48743          |
| 80    | 0.97485      | 4C26TB     | -0.17270     | 80-1      | 0.97485          |
| 81    | 0.00000      | 4C26TB     | -0.04842     | 81-1      | 0.00000          |
| 81    | 0.48743      | 4C26TB     | 5.25398      | 81-1      | 0.48743          |
| 81    | 0.97485      | 4C26TB     | 10.55637     | 81-1      | 0.97485          |
| 82    | 0.00000      | 4C26TB     | 10.45014     | 82-1      | 0.00000          |
| 82    | 0.48743      | 4C26TB     | 13.64216     | 82-1      | 0.48743          |
| 82    | 0.97485      | 4C26TB     | 16.83417     | 82-1      | 0.97485          |
| 83    | 0.00000      | 4C26TB     | 16.71906     | 83-1      | 0.00000          |
| 83    | 0.48743      | 4C26TB     | 18.61217     | 83-1      | 0.48743          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 83    | 0.97485      | 4C26TB     | 20.50528     | 83-1      | 0.97485          |
| 84    | 0.00000      | 4C26TB     | 20.39602     | 84-1      | 0.00000          |
| 84    | 0.48743      | 4C26TB     | 21.36124     | 84-1      | 0.48743          |
| 84    | 0.97485      | 4C26TB     | 22.32646     | 84-1      | 0.97485          |
| 85    | 0.00000      | 4C26TB     | 22.22625     | 85-1      | 0.00000          |
| 85    | 0.48743      | 4C26TB     | 23.35323     | 85-1      | 0.48743          |
| 85    | 0.97485      | 4C26TB     | 24.48022     | 85-1      | 0.97485          |
| 86    | 0.00000      | 4C26TB     | 24.38927     | 86-1      | 0.00000          |
| 86    | 0.48743      | 4C26TB     | 25.68984     | 86-1      | 0.48743          |
| 86    | 0.97485      | 4C26TB     | 26.99041     | 86-1      | 0.97485          |
| 87    | 0.00000      | 4C26TB     | 26.91106     | 87-1      | 0.00000          |
| 87    | 0.48743      | 4C26TB     | 27.47898     | 87-1      | 0.48743          |
| 87    | 0.97485      | 4C26TB     | 28.04690     | 87-1      | 0.97485          |
| 88    | 0.00000      | 4C26TB     | 27.98118     | 88-1      | 0.00000          |
| 88    | 0.48743      | 4C26TB     | 27.94779     | 88-1      | 0.48743          |
| 88    | 0.97485      | 4C26TB     | 27.91439     | 88-1      | 0.97485          |
| 89    | 0.00000      | 4C26TB     | 27.86289     | 89-1      | 0.00000          |
| 89    | 0.48743      | 4C26TB     | 28.02113     | 89-1      | 0.48743          |
| 89    | 0.97485      | 4C26TB     | 28.17937     | 89-1      | 0.97485          |
| 90    | 0.00000      | 4C26TB     | 28.14410     | 90-1      | 0.00000          |
| 90    | 0.48743      | 4C26TB     | 27.37185     | 90-1      | 0.48743          |
| 90    | 0.97485      | 4C26TB     | 26.59960     | 90-1      | 0.97485          |
| 91    | 0.00000      | 4C26TB     | 26.58226     | 91-1      | 0.00000          |
| 91    | 0.48743      | 4C26TB     | 25.42384     | 91-1      | 0.48743          |
| 91    | 0.97485      | 4C26TB     | 24.26543     | 91-1      | 0.97485          |
| 92    | 0.00000      | 4C26TB     | 24.26622     | 92-1      | 0.00000          |
| 92    | 0.48743      | 4C26TB     | 23.29895     | 92-1      | 0.48743          |
| 92    | 0.97485      | 4C26TB     | 22.33169     | 92-1      | 0.97485          |
| 93    | 0.00000      | 4C26TB     | 22.35317     | 93-1      | 0.00000          |
| 93    | 0.48743      | 4C26TB     | 21.57244     | 93-1      | 0.48743          |
| 93    | 0.97485      | 4C26TB     | 20.79172     | 93-1      | 0.97485          |
| 94    | 0.00000      | 4C26TB     | 20.84117     | 94-1      | 0.00000          |
| 94    | 0.48743      | 4C26TB     | 18.70700     | 94-1      | 0.48743          |
| 94    | 0.97485      | 4C26TB     | 16.57284     | 94-1      | 0.97485          |
| 95    | 0.00000      | 4C26TB     | 16.65870     | 95-1      | 0.00000          |
| 95    | 0.48743      | 4C26TB     | 13.22115     | 95-1      | 0.48743          |
| 95    | 0.97485      | 4C26TB     | 9.78361      | 95-1      | 0.97485          |
| 96    | 0.00000      | 4C26TB     | 9.91531      | 96-1      | 0.00000          |
| 96    | 0.48743      | 4C26TB     | 4.85543      | 96-1      | 0.48743          |
| 96    | 0.97485      | 4C26TB     | -0.20445     | 96-1      | 0.97485          |
| 97    | 0.00000      | 4C26TB     | 0.14155      | 97-1      | 0.00000          |
| 97    | 0.48743      | 4C26TB     | 1.61931      | 97-1      | 0.48743          |
| 97    | 0.97485      | 4C26TB     | 3.09707      | 97-1      | 0.97485          |
| 98    | 0.00000      | 4C26TB     | 3.15674      | 98-1      | 0.00000          |
| 98    | 0.48743      | 4C26TB     | 4.54452      | 98-1      | 0.48743          |
| 98    | 0.97485      | 4C26TB     | 5.93230      | 98-1      | 0.97485          |
| 99    | 0.00000      | 4C26TB     | 5.94855      | 99-1      | 0.00000          |
| 99    | 0.48743      | 4C26TB     | 7.18327      | 99-1      | 0.48743          |
| 99    | 0.97485      | 4C26TB     | 8.41799      | 99-1      | 0.97485          |
| 100   | 0.00000      | 4C26TB     | 8.40829      | 100-1     | 0.00000          |
| 100   | 0.48743      | 4C26TB     | 9.45202      | 100-1     | 0.48743          |
| 100   | 0.97485      | 4C26TB     | 10.49575     | 100-1     | 0.97485          |
| 101   | 0.00000      | 4C26TB     | 10.47169     | 101-1     | 0.00000          |
| 101   | 0.48743      | 4C26TB     | 11.30352     | 101-1     | 0.48743          |
| 101   | 0.97485      | 4C26TB     | 12.13536     | 101-1     | 0.97485          |
| 102   | 0.00000      | 4C26TB     | 12.10400     | 102-1     | 0.00000          |
| 102   | 0.48743      | 4C26TB     | 12.70922     | 102-1     | 0.48743          |
| 102   | 0.97485      | 4C26TB     | 13.31444     | 102-1     | 0.97485          |
| 103   | 0.00000      | 4C26TB     | 13.27807     | 103-1     | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 103   | 0.48743      | 4C26TB     | 13.64501     | 103-1     | 0.48743          |
| 103   | 0.97485      | 4C26TB     | 14.01196     | 103-1     | 0.97485          |
| 104   | 0.00000      | 4C26TB     | 13.97217     | 104-1     | 0.00000          |
| 104   | 0.48743      | 4C26TB     | 14.09538     | 104-1     | 0.48743          |
| 104   | 0.97485      | 4C26TB     | 14.21859     | 104-1     | 0.97485          |
| 105   | 0.00000      | 4C26TB     | 14.17780     | 105-1     | 0.00000          |
| 105   | 0.48743      | 4C26TB     | 14.05640     | 105-1     | 0.48743          |
| 105   | 0.97485      | 4C26TB     | 13.93499     | 105-1     | 0.97485          |
| 106   | 0.00000      | 4C26TB     | 13.89352     | 106-1     | 0.00000          |
| 106   | 0.48743      | 4C26TB     | 13.52834     | 106-1     | 0.48743          |
| 106   | 0.97485      | 4C26TB     | 13.16315     | 106-1     | 0.97485          |
| 107   | 0.00000      | 4C26TB     | 13.12143     | 107-1     | 0.00000          |
| 107   | 0.48743      | 4C26TB     | 12.51973     | 107-1     | 0.48743          |
| 107   | 0.97485      | 4C26TB     | 11.91803     | 107-1     | 0.97485          |
| 108   | 0.00000      | 4C26TB     | 11.87719     | 108-1     | 0.00000          |
| 108   | 0.48743      | 4C26TB     | 11.05044     | 108-1     | 0.48743          |
| 108   | 0.97485      | 4C26TB     | 10.22368     | 108-1     | 0.97485          |
| 109   | 0.00000      | 4C26TB     | 10.18262     | 109-1     | 0.00000          |
| 109   | 0.48743      | 4C26TB     | 9.14550      | 109-1     | 0.48743          |
| 109   | 0.97485      | 4C26TB     | 8.10839      | 109-1     | 0.97485          |
| 110   | 0.00000      | 4C26TB     | 8.06378      | 110-1     | 0.00000          |
| 110   | 0.48743      | 4C26TB     | 6.84044      | 110-1     | 0.48743          |
| 110   | 0.97485      | 4C26TB     | 5.61710      | 110-1     | 0.97485          |
| 111   | 0.00000      | 4C26TB     | 5.57126      | 111-1     | 0.00000          |
| 111   | 0.48743      | 4C26TB     | 4.20884      | 111-1     | 0.48743          |
| 111   | 0.97485      | 4C26TB     | 2.84642      | 111-1     | 0.97485          |
| 112   | 0.00000      | 4C26TB     | 2.81679      | 112-1     | 0.00000          |
| 112   | 0.48743      | 4C26TB     | 1.38885      | 112-1     | 0.48743          |
| 112   | 0.97485      | 4C26TB     | -0.03908     | 112-1     | 0.97485          |
| 113   | 0.00000      | 4C26TB     | 0.26100      | 113-1     | 0.00000          |
| 113   | 0.48743      | 4C26TB     | 0.07337      | 113-1     | 0.48743          |
| 113   | 0.97485      | 4C26TB     | -0.11426     | 113-1     | 0.97485          |
| 114   | 0.00000      | 4C26TB     | 0.11262      | 114-1     | 0.00000          |
| 114   | 0.48743      | 4C26TB     | 0.00886      | 114-1     | 0.48743          |
| 114   | 0.97485      | 4C26TB     | -0.09490     | 114-1     | 0.97485          |
| 115   | 0.00000      | 4C26TB     | 0.10888      | 115-1     | 0.00000          |
| 115   | 0.48743      | 4C26TB     | 0.04475      | 115-1     | 0.48743          |
| 115   | 0.97485      | 4C26TB     | -0.01939     | 115-1     | 0.97485          |
| 116   | 0.00000      | 4C26TB     | 0.15952      | 116-1     | 0.00000          |
| 116   | 0.48743      | 4C26TB     | 0.11933      | 116-1     | 0.48743          |
| 116   | 0.97485      | 4C26TB     | 0.07913      | 116-1     | 0.97485          |
| 117   | 0.00000      | 4C26TB     | 0.22844      | 117-1     | 0.00000          |
| 117   | 0.48743      | 4C26TB     | 0.20437      | 117-1     | 0.48743          |
| 117   | 0.97485      | 4C26TB     | 0.18030      | 117-1     | 0.97485          |
| 118   | 0.00000      | 4C26TB     | 0.29547      | 118-1     | 0.00000          |
| 118   | 0.48743      | 4C26TB     | 0.28255      | 118-1     | 0.48743          |
| 118   | 0.97485      | 4C26TB     | 0.26963      | 118-1     | 0.97485          |
| 119   | 0.00000      | 4C26TB     | 0.34716      | 119-1     | 0.00000          |
| 119   | 0.48743      | 4C26TB     | 0.34204      | 119-1     | 0.48743          |
| 119   | 0.97485      | 4C26TB     | 0.33692      | 119-1     | 0.97485          |
| 120   | 0.00000      | 4C26TB     | 0.37451      | 120-1     | 0.00000          |
| 120   | 0.48743      | 4C26TB     | 0.37489      | 120-1     | 0.48743          |
| 120   | 0.97485      | 4C26TB     | 0.37527      | 120-1     | 0.97485          |
| 121   | 0.00000      | 4C26TB     | 0.37199      | 121-1     | 0.00000          |
| 121   | 0.48743      | 4C26TB     | 0.37672      | 121-1     | 0.48743          |
| 121   | 0.97485      | 4C26TB     | 0.38144      | 121-1     | 0.97485          |
| 122   | 0.00000      | 4C26TB     | 0.33775      | 122-1     | 0.00000          |
| 122   | 0.48743      | 4C26TB     | 0.34705      | 122-1     | 0.48743          |
| 122   | 0.97485      | 4C26TB     | 0.35636      | 122-1     | 0.97485          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 123   | 0.00000      | 4C26TB     | 0.27399      | 123-1     | 0.00000          |
| 123   | 0.48743      | 4C26TB     | 0.28906      | 123-1     | 0.48743          |
| 123   | 0.97485      | 4C26TB     | 0.30414      | 123-1     | 0.97485          |
| 124   | 0.00000      | 4C26TB     | 0.18620      | 124-1     | 0.00000          |
| 124   | 0.48743      | 4C26TB     | 0.20938      | 124-1     | 0.48743          |
| 124   | 0.97485      | 4C26TB     | 0.23255      | 124-1     | 0.97485          |
| 125   | 0.00000      | 4C26TB     | 0.08353      | 125-1     | 0.00000          |
| 125   | 0.48743      | 4C26TB     | 0.11852      | 125-1     | 0.48743          |
| 125   | 0.97485      | 4C26TB     | 0.15352      | 125-1     | 0.97485          |
| 126   | 0.00000      | 4C26TB     | -0.02067     | 126-1     | 0.00000          |
| 126   | 0.48743      | 4C26TB     | 0.03193      | 126-1     | 0.48743          |
| 126   | 0.97485      | 4C26TB     | 0.08454      | 126-1     | 0.97485          |
| 127   | 0.00000      | 4C26TB     | -0.10672     | 127-1     | 0.00000          |
| 127   | 0.48743      | 4C26TB     | -0.02396     | 127-1     | 0.48743          |
| 127   | 0.97485      | 4C26TB     | 0.05881      | 127-1     | 0.97485          |
| 128   | 0.00000      | 4C26TB     | -0.13609     | 128-1     | 0.00000          |
| 128   | 0.48743      | 4C26TB     | 0.01712      | 128-1     | 0.48743          |
| 128   | 0.97485      | 4C26TB     | 0.17033      | 128-1     | 0.97485          |
| 129   | 0.00000      | 4C26TB     | 0.37343      | 129-1     | 0.00000          |
| 129   | 0.46695      | 4C26TB     | 0.17461      | 129-1     | 0.46695          |
| 129   | 0.93391      | 4C26TB     | -0.02420     | 129-1     | 0.93391          |
| 129   | 1.40086      | 4C26TB     | -0.22302     | 129-1     | 1.40086          |
| 129   | 1.86781      | 4C26TB     | -0.42183     | 129-1     | 1.86781          |
| 130   | 0.00000      | 4C26TB     | 0.46228      | 130-1     | 0.00000          |
| 130   | 0.46695      | 4C26TB     | 0.23304      | 130-1     | 0.46695          |
| 130   | 0.93391      | 4C26TB     | 0.00380      | 130-1     | 0.93391          |
| 130   | 1.40086      | 4C26TB     | -0.22544     | 130-1     | 1.40086          |
| 130   | 1.86781      | 4C26TB     | -0.45468     | 130-1     | 1.86781          |
| 131   | 0.00000      | 4C26TB     | 0.34173      | 131-1     | 0.00000          |
| 131   | 0.46695      | 4C26TB     | 0.19745      | 131-1     | 0.46695          |
| 131   | 0.93391      | 4C26TB     | 0.05317      | 131-1     | 0.93391          |
| 131   | 1.40086      | 4C26TB     | -0.09111     | 131-1     | 1.40086          |
| 131   | 1.86781      | 4C26TB     | -0.23539     | 131-1     | 1.86781          |
| 132   | 0.00000      | 4C26TB     | 0.05740      | 132-1     | 0.00000          |
| 132   | 0.46695      | 4C26TB     | 0.04700      | 132-1     | 0.46695          |
| 132   | 0.93391      | 4C26TB     | 0.03661      | 132-1     | 0.93391          |
| 132   | 1.40086      | 4C26TB     | 0.02621      | 132-1     | 1.40086          |
| 132   | 1.86781      | 4C26TB     | 0.01581      | 132-1     | 1.86781          |
| 133   | 0.00000      | 4C26TB     | -0.19659     | 133-1     | 0.00000          |
| 133   | 0.46695      | 4C26TB     | -0.07101     | 133-1     | 0.46695          |
| 133   | 0.93391      | 4C26TB     | 0.05458      | 133-1     | 0.93391          |
| 133   | 1.40086      | 4C26TB     | 0.18016      | 133-1     | 1.40086          |
| 133   | 1.86781      | 4C26TB     | 0.30574      | 133-1     | 1.86781          |
| 134   | 0.00000      | 4C26TB     | -0.42788     | 134-1     | 0.00000          |
| 134   | 0.46695      | 4C26TB     | -0.21043     | 134-1     | 0.46695          |
| 134   | 0.93391      | 4C26TB     | 0.00703      | 134-1     | 0.93391          |
| 134   | 1.40086      | 4C26TB     | 0.22448      | 134-1     | 1.40086          |
| 134   | 1.86781      | 4C26TB     | 0.44193      | 134-1     | 1.86781          |
| 135   | 0.00000      | 4C26TB     | -0.44026     | 135-1     | 0.00000          |
| 135   | 0.46695      | 4C26TB     | -0.22406     | 135-1     | 0.46695          |
| 135   | 0.93391      | 4C26TB     | -0.00787     | 135-1     | 0.93391          |
| 135   | 1.40086      | 4C26TB     | 0.20833      | 135-1     | 1.40086          |
| 135   | 1.86781      | 4C26TB     | 0.42453      | 135-1     | 1.86781          |
| 136   | 0.00000      | 4C26TB     | 0.08603      | 136-1     | 0.00000          |
| 136   | 0.46695      | 4C26TB     | 0.01854      | 136-1     | 0.46695          |
| 136   | 0.93391      | 4C26TB     | -0.04894     | 136-1     | 0.93391          |
| 136   | 1.40086      | 4C26TB     | -0.11643     | 136-1     | 1.40086          |
| 136   | 1.86781      | 4C26TB     | -0.18391     | 136-1     | 1.86781          |
| 137   | 0.00000      | 4C26TB     | 0.02834      | 137-1     | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 137   | 0.46695      | 4C26TB     | 0.02356      | 137-1     | 0.46695          |
| 137   | 0.93391      | 4C26TB     | 0.01878      | 137-1     | 0.93391          |
| 137   | 1.40086      | 4C26TB     | 0.01400      | 137-1     | 1.40086          |
| 137   | 1.86781      | 4C26TB     | 0.00922      | 137-1     | 1.86781          |
| 138   | 0.00000      | 4C26TB     | 0.22242      | 138-1     | 0.00000          |
| 138   | 0.46695      | 4C26TB     | 0.17026      | 138-1     | 0.46695          |
| 138   | 0.93391      | 4C26TB     | 0.11811      | 138-1     | 0.93391          |
| 138   | 1.40086      | 4C26TB     | 0.06595      | 138-1     | 1.40086          |
| 138   | 1.86781      | 4C26TB     | 0.01379      | 138-1     | 1.86781          |
| 139   | 0.00000      | 4C26TB     | 0.12072      | 139-1     | 0.00000          |
| 139   | 0.46695      | 4C26TB     | 0.11078      | 139-1     | 0.46695          |
| 139   | 0.93391      | 4C26TB     | 0.10083      | 139-1     | 0.93391          |
| 139   | 1.40086      | 4C26TB     | 0.09089      | 139-1     | 1.40086          |
| 139   | 1.86781      | 4C26TB     | 0.08095      | 139-1     | 1.86781          |
| 140   | 0.00000      | 4C26TB     | 0.05708      | 140-1     | 0.00000          |
| 140   | 0.46695      | 4C26TB     | 0.08875      | 140-1     | 0.46695          |
| 140   | 0.93391      | 4C26TB     | 0.12042      | 140-1     | 0.93391          |
| 140   | 1.40086      | 4C26TB     | 0.15209      | 140-1     | 1.40086          |
| 140   | 1.86781      | 4C26TB     | 0.18377      | 140-1     | 1.86781          |
| 141   | 0.00000      | 4C26TB     | 0.03376      | 141-1     | 0.00000          |
| 141   | 0.46695      | 4C26TB     | 0.02791      | 141-1     | 0.46695          |
| 141   | 0.93391      | 4C26TB     | 0.02205      | 141-1     | 0.93391          |
| 141   | 1.40086      | 4C26TB     | 0.01620      | 141-1     | 1.40086          |
| 141   | 1.86781      | 4C26TB     | 0.01034      | 141-1     | 1.86781          |
| 142   | 0.00000      | 4C26TB     | -0.19169     | 142-1     | 0.00000          |
| 142   | 0.46695      | 4C26TB     | -0.11135     | 142-1     | 0.46695          |
| 142   | 0.93391      | 4C26TB     | -0.03100     | 142-1     | 0.93391          |
| 142   | 1.40086      | 4C26TB     | 0.04934      | 142-1     | 1.40086          |
| 142   | 1.86781      | 4C26TB     | 0.12969      | 142-1     | 1.86781          |
| 143   | 0.00000      | 4C26TB     | -0.01849     | 143-1     | 0.00000          |
| 143   | 0.46695      | 4C26TB     | -0.04737     | 143-1     | 0.46695          |
| 143   | 0.93391      | 4C26TB     | -0.07624     | 143-1     | 0.93391          |
| 143   | 1.40086      | 4C26TB     | -0.10512     | 143-1     | 1.40086          |
| 143   | 1.86781      | 4C26TB     | -0.13400     | 143-1     | 1.86781          |
| 144   | 0.00000      | 4C26TB     | -0.17046     | 144-1     | 0.00000          |
| 144   | 0.46695      | 4C26TB     | -0.06616     | 144-1     | 0.46695          |
| 144   | 0.93391      | 4C26TB     | 0.03813      | 144-1     | 0.93391          |
| 144   | 1.40086      | 4C26TB     | 0.14243      | 144-1     | 1.40086          |
| 144   | 1.86781      | 4C26TB     | 0.24672      | 144-1     | 1.86781          |
| 145   | 0.00000      | 4C26TB     | 0.23736      | 145-1     | 0.00000          |
| 145   | 0.46695      | 4C26TB     | 0.21755      | 145-1     | 0.46695          |
| 145   | 0.93391      | 4C26TB     | 0.19775      | 145-1     | 0.93391          |
| 145   | 1.40086      | 4C26TB     | 0.17794      | 145-1     | 1.40086          |
| 145   | 1.86781      | 4C26TB     | 0.15814      | 145-1     | 1.86781          |
| 146   | 0.00000      | 4C26TB     | 0.19087      | 146-1     | 0.00000          |
| 146   | 0.46695      | 4C26TB     | 0.18631      | 146-1     | 0.46695          |
| 146   | 0.93391      | 4C26TB     | 0.18176      | 146-1     | 0.93391          |
| 146   | 1.40086      | 4C26TB     | 0.17721      | 146-1     | 1.40086          |
| 146   | 1.86781      | 4C26TB     | 0.17265      | 146-1     | 1.86781          |
| 147   | 0.00000      | 4C26TB     | 0.20831      | 147-1     | 0.00000          |
| 147   | 0.46695      | 4C26TB     | 0.20480      | 147-1     | 0.46695          |
| 147   | 0.93391      | 4C26TB     | 0.20129      | 147-1     | 0.93391          |
| 147   | 1.40086      | 4C26TB     | 0.19778      | 147-1     | 1.40086          |
| 147   | 1.86781      | 4C26TB     | 0.19427      | 147-1     | 1.86781          |
| 148   | 0.00000      | 4C26TB     | 0.25659      | 148-1     | 0.00000          |
| 148   | 0.46695      | 4C26TB     | 0.14792      | 148-1     | 0.46695          |
| 148   | 0.93391      | 4C26TB     | 0.03926      | 148-1     | 0.93391          |
| 148   | 1.40086      | 4C26TB     | -0.06941     | 148-1     | 1.40086          |
| 148   | 1.86781      | 4C26TB     | -0.17807     | 148-1     | 1.86781          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 149   | 0.00000      | 4C26TB     | -0.13279     | 149-1     | 0.00000          |
| 149   | 0.46695      | 4C26TB     | -0.09482     | 149-1     | 0.46695          |
| 149   | 0.93391      | 4C26TB     | -0.05686     | 149-1     | 0.93391          |
| 149   | 1.40086      | 4C26TB     | -0.01890     | 149-1     | 1.40086          |
| 149   | 1.86781      | 4C26TB     | 0.01907      | 149-1     | 1.86781          |
| 150   | 0.00000      | 4C26TB     | -0.06425     | 150-1     | 0.00000          |
| 150   | 0.46695      | 4C26TB     | -0.08112     | 150-1     | 0.46695          |
| 150   | 0.93391      | 4C26TB     | -0.09799     | 150-1     | 0.93391          |
| 150   | 1.40086      | 4C26TB     | -0.11487     | 150-1     | 1.40086          |
| 150   | 1.86781      | 4C26TB     | -0.13174     | 150-1     | 1.86781          |
| 151   | 0.00000      | 4C26TB     | -0.26615     | 151-1     | 0.00000          |
| 151   | 0.46695      | 4C26TB     | -0.10458     | 151-1     | 0.46695          |
| 151   | 0.93391      | 4C26TB     | 0.05698      | 151-1     | 0.93391          |
| 151   | 1.40086      | 4C26TB     | 0.21854      | 151-1     | 1.40086          |
| 151   | 1.86781      | 4C26TB     | 0.38010      | 151-1     | 1.86781          |
| 152   | 0.00000      | 4C26TB     | 0.27988      | 152-1     | 0.00000          |
| 152   | 0.46695      | 4C26TB     | 0.27648      | 152-1     | 0.46695          |
| 152   | 0.93391      | 4C26TB     | 0.27308      | 152-1     | 0.93391          |
| 152   | 1.40086      | 4C26TB     | 0.26968      | 152-1     | 1.40086          |
| 152   | 1.86781      | 4C26TB     | 0.26627      | 152-1     | 1.86781          |
| 153   | 0.00000      | 4C26TB     | 0.26118      | 153-1     | 0.00000          |
| 153   | 0.46695      | 4C26TB     | 0.26189      | 153-1     | 0.46695          |
| 153   | 0.93391      | 4C26TB     | 0.26259      | 153-1     | 0.93391          |
| 153   | 1.40086      | 4C26TB     | 0.26329      | 153-1     | 1.40086          |
| 153   | 1.86781      | 4C26TB     | 0.26399      | 153-1     | 1.86781          |
| 154   | 0.00000      | 4C26TB     | 0.32084      | 154-1     | 0.00000          |
| 154   | 0.46695      | 4C26TB     | 0.29918      | 154-1     | 0.46695          |
| 154   | 0.93391      | 4C26TB     | 0.27752      | 154-1     | 0.93391          |
| 154   | 1.40086      | 4C26TB     | 0.25586      | 154-1     | 1.40086          |
| 154   | 1.86781      | 4C26TB     | 0.23420      | 154-1     | 1.86781          |
| 155   | 0.00000      | 4C26TB     | 0.37597      | 155-1     | 0.00000          |
| 155   | 0.46695      | 4C26TB     | 0.21593      | 155-1     | 0.46695          |
| 155   | 0.93391      | 4C26TB     | 0.05589      | 155-1     | 0.93391          |
| 155   | 1.40086      | 4C26TB     | -0.10415     | 155-1     | 1.40086          |
| 155   | 1.86781      | 4C26TB     | -0.26418     | 155-1     | 1.86781          |
| 156   | 0.00000      | 4C26TB     | -0.12420     | 156-1     | 0.00000          |
| 156   | 0.46695      | 4C26TB     | -0.10126     | 156-1     | 0.46695          |
| 156   | 0.93391      | 4C26TB     | -0.07833     | 156-1     | 0.93391          |
| 156   | 1.40086      | 4C26TB     | -0.05540     | 156-1     | 1.40086          |
| 156   | 1.86781      | 4C26TB     | -0.03246     | 156-1     | 1.86781          |
| 157   | 0.00000      | 4C26TB     | -0.08975     | 157-1     | 0.00000          |
| 157   | 0.46695      | 4C26TB     | -0.10107     | 157-1     | 0.46695          |
| 157   | 0.93391      | 4C26TB     | -0.11240     | 157-1     | 0.93391          |
| 157   | 1.40086      | 4C26TB     | -0.12373     | 157-1     | 1.40086          |
| 157   | 1.86781      | 4C26TB     | -0.13506     | 157-1     | 1.86781          |
| 158   | 0.00000      | 4C26TB     | -0.30755     | 158-1     | 0.00000          |
| 158   | 0.46695      | 4C26TB     | -0.11730     | 158-1     | 0.46695          |
| 158   | 0.93391      | 4C26TB     | 0.07295      | 158-1     | 0.93391          |
| 158   | 1.40086      | 4C26TB     | 0.26321      | 158-1     | 1.40086          |
| 158   | 1.86781      | 4C26TB     | 0.45346      | 158-1     | 1.86781          |
| 159   | 0.00000      | 4C26TB     | 0.31450      | 159-1     | 0.00000          |
| 159   | 0.46695      | 4C26TB     | 0.32605      | 159-1     | 0.46695          |
| 159   | 0.93391      | 4C26TB     | 0.33760      | 159-1     | 0.93391          |
| 159   | 1.40086      | 4C26TB     | 0.34915      | 159-1     | 1.40086          |
| 159   | 1.86781      | 4C26TB     | 0.36069      | 159-1     | 1.86781          |
| 160   | 0.00000      | 4C26TB     | 0.33235      | 160-1     | 0.00000          |
| 160   | 0.46695      | 4C26TB     | 0.33397      | 160-1     | 0.46695          |
| 160   | 0.93391      | 4C26TB     | 0.33558      | 160-1     | 0.93391          |
| 160   | 1.40086      | 4C26TB     | 0.33720      | 160-1     | 1.40086          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 160   | 1.86781      | 4C26TB     | 0.33882      | 160-1     | 1.86781          |
| 161   | 0.00000      | 4C26TB     | 0.40715      | 161-1     | 0.00000          |
| 161   | 0.46695      | 4C26TB     | 0.37458      | 161-1     | 0.46695          |
| 161   | 0.93391      | 4C26TB     | 0.34201      | 161-1     | 0.93391          |
| 161   | 1.40086      | 4C26TB     | 0.30944      | 161-1     | 1.40086          |
| 161   | 1.86781      | 4C26TB     | 0.27687      | 161-1     | 1.86781          |
| 162   | 0.00000      | 4C26TB     | 0.44628      | 162-1     | 0.00000          |
| 162   | 0.46695      | 4C26TB     | 0.25873      | 162-1     | 0.46695          |
| 162   | 0.93391      | 4C26TB     | 0.07119      | 162-1     | 0.93391          |
| 162   | 1.40086      | 4C26TB     | -0.11635     | 162-1     | 1.40086          |
| 162   | 1.86781      | 4C26TB     | -0.30389     | 162-1     | 1.86781          |
| 163   | 0.00000      | 4C26TB     | -0.12529     | 163-1     | 0.00000          |
| 163   | 0.46695      | 4C26TB     | -0.10984     | 163-1     | 0.46695          |
| 163   | 0.93391      | 4C26TB     | -0.09439     | 163-1     | 0.93391          |
| 163   | 1.40086      | 4C26TB     | -0.07894     | 163-1     | 1.40086          |
| 163   | 1.86781      | 4C26TB     | -0.06349     | 163-1     | 1.86781          |
| 164   | 0.00000      | 4C26TB     | -0.10550     | 164-1     | 0.00000          |
| 164   | 0.46695      | 4C26TB     | -0.11326     | 164-1     | 0.46695          |
| 164   | 0.93391      | 4C26TB     | -0.12102     | 164-1     | 0.93391          |
| 164   | 1.40086      | 4C26TB     | -0.12878     | 164-1     | 1.40086          |
| 164   | 1.86781      | 4C26TB     | -0.13654     | 164-1     | 1.86781          |
| 165   | 0.00000      | 4C26TB     | -0.33039     | 165-1     | 0.00000          |
| 165   | 0.46695      | 4C26TB     | -0.12250     | 165-1     | 0.46695          |
| 165   | 0.93391      | 4C26TB     | 0.08539      | 165-1     | 0.93391          |
| 165   | 1.40086      | 4C26TB     | 0.29328      | 165-1     | 1.40086          |
| 165   | 1.86781      | 4C26TB     | 0.50118      | 165-1     | 1.86781          |
| 166   | 0.00000      | 4C26TB     | 0.33999      | 166-1     | 0.00000          |
| 166   | 0.46695      | 4C26TB     | 0.36474      | 166-1     | 0.46695          |
| 166   | 0.93391      | 4C26TB     | 0.38949      | 166-1     | 0.93391          |
| 166   | 1.40086      | 4C26TB     | 0.41424      | 166-1     | 1.40086          |
| 166   | 1.86781      | 4C26TB     | 0.43899      | 166-1     | 1.86781          |
| 167   | 0.00000      | 4C26TB     | 0.39526      | 167-1     | 0.00000          |
| 167   | 0.46695      | 4C26TB     | 0.39568      | 167-1     | 0.46695          |
| 167   | 0.93391      | 4C26TB     | 0.39610      | 167-1     | 0.93391          |
| 167   | 1.40086      | 4C26TB     | 0.39652      | 167-1     | 1.40086          |
| 167   | 1.86781      | 4C26TB     | 0.39694      | 167-1     | 1.86781          |
| 168   | 0.00000      | 4C26TB     | 0.47337      | 168-1     | 0.00000          |
| 168   | 0.46695      | 4C26TB     | 0.43324      | 168-1     | 0.46695          |
| 168   | 0.93391      | 4C26TB     | 0.39310      | 168-1     | 0.93391          |
| 168   | 1.40086      | 4C26TB     | 0.35297      | 168-1     | 1.40086          |
| 168   | 1.86781      | 4C26TB     | 0.31284      | 168-1     | 1.86781          |
| 169   | 0.00000      | 4C26TB     | 0.49705      | 169-1     | 0.00000          |
| 169   | 0.46695      | 4C26TB     | 0.29063      | 169-1     | 0.46695          |
| 169   | 0.93391      | 4C26TB     | 0.08420      | 169-1     | 0.93391          |
| 169   | 1.40086      | 4C26TB     | -0.12222     | 169-1     | 1.40086          |
| 169   | 1.86781      | 4C26TB     | -0.32864     | 169-1     | 1.86781          |
| 170   | 0.00000      | 4C26TB     | -0.12771     | 170-1     | 0.00000          |
| 170   | 0.46695      | 4C26TB     | -0.11703     | 170-1     | 0.46695          |
| 170   | 0.93391      | 4C26TB     | -0.10636     | 170-1     | 0.93391          |
| 170   | 1.40086      | 4C26TB     | -0.09568     | 170-1     | 1.40086          |
| 170   | 1.86781      | 4C26TB     | -0.08500     | 170-1     | 1.86781          |
| 171   | 0.00000      | 4C26TB     | -0.11447     | 171-1     | 0.00000          |
| 171   | 0.46695      | 4C26TB     | -0.12001     | 171-1     | 0.46695          |
| 171   | 0.93391      | 4C26TB     | -0.12555     | 171-1     | 0.93391          |
| 171   | 1.40086      | 4C26TB     | -0.13109     | 171-1     | 1.40086          |
| 171   | 1.86781      | 4C26TB     | -0.13663     | 171-1     | 1.86781          |
| 172   | 0.00000      | 4C26TB     | -0.34774     | 172-1     | 0.00000          |
| 172   | 0.46695      | 4C26TB     | -0.12664     | 172-1     | 0.46695          |
| 172   | 0.93391      | 4C26TB     | 0.09446      | 172-1     | 0.93391          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 172   | 1.40086      | 4C26TB     | 0.31557      | 172-1     | 1.40086          |
| 172   | 1.86781      | 4C26TB     | 0.53667      | 172-1     | 1.86781          |
| 173   | 0.00000      | 4C26TB     | 0.35721      | 173-1     | 0.00000          |
| 173   | 0.46695      | 4C26TB     | 0.39246      | 173-1     | 0.46695          |
| 173   | 0.93391      | 4C26TB     | 0.42770      | 173-1     | 0.93391          |
| 173   | 1.40086      | 4C26TB     | 0.46295      | 173-1     | 1.40086          |
| 173   | 1.86781      | 4C26TB     | 0.49820      | 173-1     | 1.86781          |
| 174   | 0.00000      | 4C26TB     | 0.44211      | 174-1     | 0.00000          |
| 174   | 0.46695      | 4C26TB     | 0.44163      | 174-1     | 0.46695          |
| 174   | 0.93391      | 4C26TB     | 0.44115      | 174-1     | 0.93391          |
| 174   | 1.40086      | 4C26TB     | 0.44067      | 174-1     | 1.40086          |
| 174   | 1.86781      | 4C26TB     | 0.44019      | 174-1     | 1.86781          |
| 175   | 0.00000      | 4C26TB     | 0.51977      | 175-1     | 0.00000          |
| 175   | 0.46695      | 4C26TB     | 0.47498      | 175-1     | 0.46695          |
| 175   | 0.93391      | 4C26TB     | 0.43020      | 175-1     | 0.93391          |
| 175   | 1.40086      | 4C26TB     | 0.38541      | 175-1     | 1.40086          |
| 175   | 1.86781      | 4C26TB     | 0.34062      | 175-1     | 1.86781          |
| 176   | 0.00000      | 4C26TB     | 0.53544      | 176-1     | 0.00000          |
| 176   | 0.46695      | 4C26TB     | 0.31465      | 176-1     | 0.46695          |
| 176   | 0.93391      | 4C26TB     | 0.09386      | 176-1     | 0.93391          |
| 176   | 1.40086      | 4C26TB     | -0.12692     | 176-1     | 1.40086          |
| 176   | 1.86781      | 4C26TB     | -0.34771     | 176-1     | 1.86781          |
| 177   | 0.00000      | 4C26TB     | -0.13023     | 177-1     | 0.00000          |
| 177   | 0.46695      | 4C26TB     | -0.12276     | 177-1     | 0.46695          |
| 177   | 0.93391      | 4C26TB     | -0.11528     | 177-1     | 0.93391          |
| 177   | 1.40086      | 4C26TB     | -0.10781     | 177-1     | 1.40086          |
| 177   | 1.86781      | 4C26TB     | -0.10033     | 177-1     | 1.86781          |
| 178   | 0.00000      | 4C26TB     | -0.11803     | 178-1     | 0.00000          |
| 178   | 0.46695      | 4C26TB     | -0.12243     | 178-1     | 0.46695          |
| 178   | 0.93391      | 4C26TB     | -0.12683     | 178-1     | 0.93391          |
| 178   | 1.40086      | 4C26TB     | -0.13124     | 178-1     | 1.40086          |
| 178   | 1.86781      | 4C26TB     | -0.13564     | 178-1     | 1.86781          |
| 179   | 0.00000      | 4C26TB     | -0.35843     | 179-1     | 0.00000          |
| 179   | 0.46695      | 4C26TB     | -0.12912     | 179-1     | 0.46695          |
| 179   | 0.93391      | 4C26TB     | 0.10019      | 179-1     | 0.93391          |
| 179   | 1.40086      | 4C26TB     | 0.32950      | 179-1     | 1.40086          |
| 179   | 1.86781      | 4C26TB     | 0.55881      | 179-1     | 1.86781          |
| 180   | 0.00000      | 4C26TB     | 0.36777      | 180-1     | 0.00000          |
| 180   | 0.46695      | 4C26TB     | 0.40943      | 180-1     | 0.46695          |
| 180   | 0.93391      | 4C26TB     | 0.45108      | 180-1     | 0.93391          |
| 180   | 1.40086      | 4C26TB     | 0.49274      | 180-1     | 1.40086          |
| 180   | 1.86781      | 4C26TB     | 0.53439      | 180-1     | 1.86781          |
| 181   | 0.00000      | 4C26TB     | 0.46765      | 181-1     | 0.00000          |
| 181   | 0.46695      | 4C26TB     | 0.46830      | 181-1     | 0.46695          |
| 181   | 0.93391      | 4C26TB     | 0.46895      | 181-1     | 0.93391          |
| 181   | 1.40086      | 4C26TB     | 0.46960      | 181-1     | 1.40086          |
| 181   | 1.86781      | 4C26TB     | 0.47025      | 181-1     | 1.86781          |
| 182   | 0.00000      | 4C26TB     | 0.54808      | 182-1     | 0.00000          |
| 182   | 0.46695      | 4C26TB     | 0.50026      | 182-1     | 0.46695          |
| 182   | 0.93391      | 4C26TB     | 0.45244      | 182-1     | 0.93391          |
| 182   | 1.40086      | 4C26TB     | 0.40461      | 182-1     | 1.40086          |
| 182   | 1.86781      | 4C26TB     | 0.35679      | 182-1     | 1.86781          |
| 183   | 0.00000      | 4C26TB     | 0.55612      | 183-1     | 0.00000          |
| 183   | 0.46695      | 4C26TB     | 0.32789      | 183-1     | 0.46695          |
| 183   | 0.93391      | 4C26TB     | 0.09966      | 183-1     | 0.93391          |
| 183   | 1.40086      | 4C26TB     | -0.12856     | 183-1     | 1.40086          |
| 183   | 1.86781      | 4C26TB     | -0.35679     | 183-1     | 1.86781          |
| 184   | 0.00000      | 4C26TB     | -0.13201     | 184-1     | 0.00000          |
| 184   | 0.46695      | 4C26TB     | -0.12673     | 184-1     | 0.46695          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 184   | 0.93391      | 4C26TB     | -0.12146     | 184-1     | 0.93391          |
| 184   | 1.40086      | 4C26TB     | -0.11619     | 184-1     | 1.40086          |
| 184   | 1.86781      | 4C26TB     | -0.11092     | 184-1     | 1.86781          |
| 185   | 0.00000      | 4C26TB     | -0.11692     | 185-1     | 0.00000          |
| 185   | 0.46695      | 4C26TB     | -0.12109     | 185-1     | 0.46695          |
| 185   | 0.93391      | 4C26TB     | -0.12527     | 185-1     | 0.93391          |
| 185   | 1.40086      | 4C26TB     | -0.12945     | 185-1     | 1.40086          |
| 185   | 1.86781      | 4C26TB     | -0.13363     | 185-1     | 1.86781          |
| 186   | 0.00000      | 4C26TB     | -0.35870     | 186-1     | 0.00000          |
| 186   | 0.46695      | 4C26TB     | -0.12837     | 186-1     | 0.46695          |
| 186   | 0.93391      | 4C26TB     | 0.10196      | 186-1     | 0.93391          |
| 186   | 1.40086      | 4C26TB     | 0.33229      | 186-1     | 1.40086          |
| 186   | 1.86781      | 4C26TB     | 0.56262      | 186-1     | 1.86781          |
| 187   | 0.00000      | 4C26TB     | 0.36666      | 187-1     | 0.00000          |
| 187   | 0.46695      | 4C26TB     | 0.41296      | 187-1     | 0.46695          |
| 187   | 0.93391      | 4C26TB     | 0.45926      | 187-1     | 0.93391          |
| 187   | 1.40086      | 4C26TB     | 0.50556      | 187-1     | 1.40086          |
| 187   | 1.86781      | 4C26TB     | 0.55186      | 187-1     | 1.86781          |
| 188   | 0.00000      | 4C26TB     | 0.47810      | 188-1     | 0.00000          |
| 188   | 0.46695      | 4C26TB     | 0.47825      | 188-1     | 0.46695          |
| 188   | 0.93391      | 4C26TB     | 0.47840      | 188-1     | 0.93391          |
| 188   | 1.40086      | 4C26TB     | 0.47856      | 188-1     | 1.40086          |
| 188   | 1.86781      | 4C26TB     | 0.47871      | 188-1     | 1.86781          |
| 189   | 0.00000      | 4C26TB     | 0.55247      | 189-1     | 0.00000          |
| 189   | 0.46695      | 4C26TB     | 0.50588      | 189-1     | 0.46695          |
| 189   | 0.93391      | 4C26TB     | 0.45929      | 189-1     | 0.93391          |
| 189   | 1.40086      | 4C26TB     | 0.41270      | 189-1     | 1.40086          |
| 189   | 1.86781      | 4C26TB     | 0.36611      | 189-1     | 1.86781          |
| 190   | 0.00000      | 4C26TB     | 0.56218      | 190-1     | 0.00000          |
| 190   | 0.46695      | 4C26TB     | 0.33200      | 190-1     | 0.46695          |
| 190   | 0.93391      | 4C26TB     | 0.10182      | 190-1     | 0.93391          |
| 190   | 1.40086      | 4C26TB     | -0.12835     | 190-1     | 1.40086          |
| 190   | 1.86781      | 4C26TB     | -0.35853     | 190-1     | 1.86781          |
| 191   | 0.00000      | 4C26TB     | -0.13357     | 191-1     | 0.00000          |
| 191   | 0.46695      | 4C26TB     | -0.12941     | 191-1     | 0.46695          |
| 191   | 0.93391      | 4C26TB     | -0.12525     | 191-1     | 0.93391          |
| 191   | 1.40086      | 4C26TB     | -0.12108     | 191-1     | 1.40086          |
| 191   | 1.86781      | 4C26TB     | -0.11692     | 191-1     | 1.86781          |
| 192   | 0.00000      | 4C26TB     | -0.11092     | 192-1     | 0.00000          |
| 192   | 0.46695      | 4C26TB     | -0.11619     | 192-1     | 0.46695          |
| 192   | 0.93391      | 4C26TB     | -0.12147     | 192-1     | 0.93391          |
| 192   | 1.40086      | 4C26TB     | -0.12674     | 192-1     | 1.40086          |
| 192   | 1.86781      | 4C26TB     | -0.13201     | 192-1     | 1.86781          |
| 193   | 0.00000      | 4C26TB     | -0.35686     | 193-1     | 0.00000          |
| 193   | 0.46695      | 4C26TB     | -0.12853     | 193-1     | 0.46695          |
| 193   | 0.93391      | 4C26TB     | 0.09979      | 193-1     | 0.93391          |
| 193   | 1.40086      | 4C26TB     | 0.32811      | 193-1     | 1.40086          |
| 193   | 1.86781      | 4C26TB     | 0.55643      | 193-1     | 1.86781          |
| 194   | 0.00000      | 4C26TB     | 0.35721      | 194-1     | 0.00000          |
| 194   | 0.46695      | 4C26TB     | 0.40480      | 194-1     | 0.46695          |
| 194   | 0.93391      | 4C26TB     | 0.45239      | 194-1     | 0.93391          |
| 194   | 1.40086      | 4C26TB     | 0.49999      | 194-1     | 1.40086          |
| 194   | 1.86781      | 4C26TB     | 0.54758      | 194-1     | 1.86781          |
| 195   | 0.00000      | 4C26TB     | 0.46977      | 195-1     | 0.00000          |
| 195   | 0.46695      | 4C26TB     | 0.46936      | 195-1     | 0.46695          |
| 195   | 0.93391      | 4C26TB     | 0.46896      | 195-1     | 0.93391          |
| 195   | 1.40086      | 4C26TB     | 0.46856      | 195-1     | 1.40086          |
| 195   | 1.86781      | 4C26TB     | 0.46815      | 195-1     | 1.86781          |
| 196   | 0.00000      | 4C26TB     | 0.53487      | 196-1     | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 196   | 0.46695      | 4C26TB     | 0.49298      | 196-1     | 0.46695          |
| 196   | 0.93391      | 4C26TB     | 0.45108      | 196-1     | 0.93391          |
| 196   | 1.40086      | 4C26TB     | 0.40918      | 196-1     | 1.40086          |
| 196   | 1.86781      | 4C26TB     | 0.36728      | 196-1     | 1.86781          |
| 197   | 0.00000      | 4C26TB     | 0.55838      | 197-1     | 0.00000          |
| 197   | 0.46695      | 4C26TB     | 0.32923      | 197-1     | 0.46695          |
| 197   | 0.93391      | 4C26TB     | 0.10007      | 197-1     | 0.93391          |
| 197   | 1.40086      | 4C26TB     | -0.12908     | 197-1     | 1.40086          |
| 197   | 1.86781      | 4C26TB     | -0.35824     | 197-1     | 1.86781          |
| 198   | 0.00000      | 4C26TB     | -0.13557     | 198-1     | 0.00000          |
| 198   | 0.46695      | 4C26TB     | -0.13119     | 198-1     | 0.46695          |
| 198   | 0.93391      | 4C26TB     | -0.12680     | 198-1     | 0.93391          |
| 198   | 1.40086      | 4C26TB     | -0.12242     | 198-1     | 1.40086          |
| 198   | 1.86781      | 4C26TB     | -0.11803     | 198-1     | 1.86781          |
| 199   | 0.00000      | 4C26TB     | -0.10034     | 199-1     | 0.00000          |
| 199   | 0.46695      | 4C26TB     | -0.10779     | 199-1     | 0.46695          |
| 199   | 0.93391      | 4C26TB     | -0.11525     | 199-1     | 0.93391          |
| 199   | 1.40086      | 4C26TB     | -0.12271     | 199-1     | 1.40086          |
| 199   | 1.86781      | 4C26TB     | -0.13017     | 199-1     | 1.86781          |
| 200   | 0.00000      | 4C26TB     | -0.34763     | 200-1     | 0.00000          |
| 200   | 0.46695      | 4C26TB     | -0.12684     | 200-1     | 0.46695          |
| 200   | 0.93391      | 4C26TB     | 0.09395      | 200-1     | 0.93391          |
| 200   | 1.40086      | 4C26TB     | 0.31473      | 200-1     | 1.40086          |
| 200   | 1.86781      | 4C26TB     | 0.53552      | 200-1     | 1.86781          |
| 201   | 0.00000      | 4C26TB     | 0.34068      | 201-1     | 0.00000          |
| 201   | 0.46695      | 4C26TB     | 0.38542      | 201-1     | 0.46695          |
| 201   | 0.93391      | 4C26TB     | 0.43016      | 201-1     | 0.93391          |
| 201   | 1.40086      | 4C26TB     | 0.47490      | 201-1     | 1.40086          |
| 201   | 1.86781      | 4C26TB     | 0.51964      | 201-1     | 1.86781          |
| 202   | 0.00000      | 4C26TB     | 0.44008      | 202-1     | 0.00000          |
| 202   | 0.46695      | 4C26TB     | 0.44062      | 202-1     | 0.46695          |
| 202   | 0.93391      | 4C26TB     | 0.44115      | 202-1     | 0.93391          |
| 202   | 1.40086      | 4C26TB     | 0.44169      | 202-1     | 1.40086          |
| 202   | 1.86781      | 4C26TB     | 0.44222      | 202-1     | 1.86781          |
| 203   | 0.00000      | 4C26TB     | 0.49830      | 203-1     | 0.00000          |
| 203   | 0.46695      | 4C26TB     | 0.46298      | 203-1     | 0.46695          |
| 203   | 0.93391      | 4C26TB     | 0.42766      | 203-1     | 0.93391          |
| 203   | 1.40086      | 4C26TB     | 0.39235      | 203-1     | 1.40086          |
| 203   | 1.86781      | 4C26TB     | 0.35703      | 203-1     | 1.86781          |
| 204   | 0.00000      | 4C26TB     | 0.53648      | 204-1     | 0.00000          |
| 204   | 0.46695      | 4C26TB     | 0.31544      | 204-1     | 0.46695          |
| 204   | 0.93391      | 4C26TB     | 0.09439      | 204-1     | 0.93391          |
| 204   | 1.40086      | 4C26TB     | -0.12666     | 204-1     | 1.40086          |
| 204   | 1.86781      | 4C26TB     | -0.34771     | 204-1     | 1.86781          |
| 205   | 0.00000      | 4C26TB     | -0.13659     | 205-1     | 0.00000          |
| 205   | 0.46695      | 4C26TB     | -0.13106     | 205-1     | 0.46695          |
| 205   | 0.93391      | 4C26TB     | -0.12553     | 205-1     | 0.93391          |
| 205   | 1.40086      | 4C26TB     | -0.11999     | 205-1     | 1.40086          |
| 205   | 1.86781      | 4C26TB     | -0.11446     | 205-1     | 1.86781          |
| 206   | 0.00000      | 4C26TB     | -0.08501     | 206-1     | 0.00000          |
| 206   | 0.46695      | 4C26TB     | -0.09565     | 206-1     | 0.46695          |
| 206   | 0.93391      | 4C26TB     | -0.10630     | 206-1     | 0.93391          |
| 206   | 1.40086      | 4C26TB     | -0.11694     | 206-1     | 1.40086          |
| 206   | 1.86781      | 4C26TB     | -0.12758     | 206-1     | 1.86781          |
| 207   | 0.00000      | 4C26TB     | -0.32842     | 207-1     | 0.00000          |
| 207   | 0.46695      | 4C26TB     | -0.12209     | 207-1     | 0.46695          |
| 207   | 0.93391      | 4C26TB     | 0.08425      | 207-1     | 0.93391          |
| 207   | 1.40086      | 4C26TB     | 0.29059      | 207-1     | 1.40086          |
| 207   | 1.86781      | 4C26TB     | 0.49692      | 207-1     | 1.86781          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 208   | 0.00000      | 4C26TB     | 0.31270      | 208-1     | 0.00000          |
| 208   | 0.46695      | 4C26TB     | 0.35289      | 208-1     | 0.46695          |
| 208   | 0.93391      | 4C26TB     | 0.39307      | 208-1     | 0.93391          |
| 208   | 1.40086      | 4C26TB     | 0.43326      | 208-1     | 1.40086          |
| 208   | 1.86781      | 4C26TB     | 0.47345      | 208-1     | 1.86781          |
| 209   | 0.00000      | 4C26TB     | 0.39703      | 209-1     | 0.00000          |
| 209   | 0.46695      | 4C26TB     | 0.39656      | 209-1     | 0.46695          |
| 209   | 0.93391      | 4C26TB     | 0.39610      | 209-1     | 0.93391          |
| 209   | 1.40086      | 4C26TB     | 0.39563      | 209-1     | 1.40086          |
| 209   | 1.86781      | 4C26TB     | 0.39517      | 209-1     | 1.86781          |
| 210   | 0.00000      | 4C26TB     | 0.43889      | 210-1     | 0.00000          |
| 210   | 0.46695      | 4C26TB     | 0.41416      | 210-1     | 0.46695          |
| 210   | 0.93391      | 4C26TB     | 0.38943      | 210-1     | 0.93391          |
| 210   | 1.40086      | 4C26TB     | 0.36470      | 210-1     | 1.40086          |
| 210   | 1.86781      | 4C26TB     | 0.33997      | 210-1     | 1.86781          |
| 211   | 0.00000      | 4C26TB     | 0.50105      | 211-1     | 0.00000          |
| 211   | 0.46695      | 4C26TB     | 0.29320      | 211-1     | 0.46695          |
| 211   | 0.93391      | 4C26TB     | 0.08535      | 211-1     | 0.93391          |
| 211   | 1.40086      | 4C26TB     | -0.12250     | 211-1     | 1.40086          |
| 211   | 1.86781      | 4C26TB     | -0.33035     | 211-1     | 1.86781          |
| 212   | 0.00000      | 4C26TB     | -0.13651     | 212-1     | 0.00000          |
| 212   | 0.46695      | 4C26TB     | -0.12876     | 212-1     | 0.46695          |
| 212   | 0.93391      | 4C26TB     | -0.12100     | 212-1     | 0.93391          |
| 212   | 1.40086      | 4C26TB     | -0.11324     | 212-1     | 1.40086          |
| 212   | 1.86781      | 4C26TB     | -0.10549     | 212-1     | 1.86781          |
| 213   | 0.00000      | 4C26TB     | -0.06350     | 213-1     | 0.00000          |
| 213   | 0.46695      | 4C26TB     | -0.07891     | 213-1     | 0.46695          |
| 213   | 0.93391      | 4C26TB     | -0.09432     | 213-1     | 0.93391          |
| 213   | 1.40086      | 4C26TB     | -0.10973     | 213-1     | 1.40086          |
| 213   | 1.86781      | 4C26TB     | -0.12514     | 213-1     | 1.86781          |
| 214   | 0.00000      | 4C26TB     | -0.30360     | 214-1     | 0.00000          |
| 214   | 0.46695      | 4C26TB     | -0.11620     | 214-1     | 0.46695          |
| 214   | 0.93391      | 4C26TB     | 0.07121      | 214-1     | 0.93391          |
| 214   | 1.40086      | 4C26TB     | 0.25861      | 214-1     | 1.40086          |
| 214   | 1.86781      | 4C26TB     | 0.44602      | 214-1     | 1.86781          |
| 215   | 0.00000      | 4C26TB     | 0.27666      | 215-1     | 0.00000          |
| 215   | 0.46695      | 4C26TB     | 0.30932      | 215-1     | 0.46695          |
| 215   | 0.93391      | 4C26TB     | 0.34199      | 215-1     | 0.93391          |
| 215   | 1.40086      | 4C26TB     | 0.37465      | 215-1     | 1.40086          |
| 215   | 1.86781      | 4C26TB     | 0.40731      | 215-1     | 1.86781          |
| 216   | 0.00000      | 4C26TB     | 0.33899      | 216-1     | 0.00000          |
| 216   | 0.46695      | 4C26TB     | 0.33728      | 216-1     | 0.46695          |
| 216   | 0.93391      | 4C26TB     | 0.33558      | 216-1     | 0.93391          |
| 216   | 1.40086      | 4C26TB     | 0.33388      | 216-1     | 1.40086          |
| 216   | 1.86781      | 4C26TB     | 0.33218      | 216-1     | 1.86781          |
| 217   | 0.00000      | 4C26TB     | 0.36052      | 217-1     | 0.00000          |
| 217   | 0.46695      | 4C26TB     | 0.34903      | 217-1     | 0.46695          |
| 217   | 0.93391      | 4C26TB     | 0.33753      | 217-1     | 0.93391          |
| 217   | 1.40086      | 4C26TB     | 0.32603      | 217-1     | 1.40086          |
| 217   | 1.86781      | 4C26TB     | 0.31453      | 217-1     | 1.86781          |
| 218   | 0.00000      | 4C26TB     | 0.45334      | 218-1     | 0.00000          |
| 218   | 0.46695      | 4C26TB     | 0.26314      | 218-1     | 0.46695          |
| 218   | 0.93391      | 4C26TB     | 0.07294      | 218-1     | 0.93391          |
| 218   | 1.40086      | 4C26TB     | -0.11727     | 218-1     | 1.40086          |
| 218   | 1.86781      | 4C26TB     | -0.30747     | 218-1     | 1.86781          |
| 219   | 0.00000      | 4C26TB     | -0.13503     | 219-1     | 0.00000          |
| 219   | 0.46695      | 4C26TB     | -0.12371     | 219-1     | 0.46695          |
| 219   | 0.93391      | 4C26TB     | -0.11239     | 219-1     | 0.93391          |
| 219   | 1.40086      | 4C26TB     | -0.10106     | 219-1     | 1.40086          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 219   | 1.86781      | 4C26TB     | -0.08974     | 219-1     | 1.86781          |
| 220   | 0.00000      | 4C26TB     | -0.03247     | 220-1     | 0.00000          |
| 220   | 0.46695      | 4C26TB     | -0.05537     | 220-1     | 0.46695          |
| 220   | 0.93391      | 4C26TB     | -0.07827     | 220-1     | 0.93391          |
| 220   | 1.40086      | 4C26TB     | -0.10116     | 220-1     | 1.40086          |
| 220   | 1.86781      | 4C26TB     | -0.12406     | 220-1     | 1.86781          |
| 221   | 0.00000      | 4C26TB     | -0.26391     | 221-1     | 0.00000          |
| 221   | 0.46695      | 4C26TB     | -0.10401     | 221-1     | 0.46695          |
| 221   | 0.93391      | 4C26TB     | 0.05589      | 221-1     | 0.93391          |
| 221   | 1.40086      | 4C26TB     | 0.21579      | 221-1     | 1.40086          |
| 221   | 1.86781      | 4C26TB     | 0.37569      | 221-1     | 1.86781          |
| 222   | 0.00000      | 4C26TB     | 0.23402      | 222-1     | 0.00000          |
| 222   | 0.46695      | 4C26TB     | 0.25577      | 222-1     | 0.46695          |
| 222   | 0.93391      | 4C26TB     | 0.27751      | 222-1     | 0.93391          |
| 222   | 1.40086      | 4C26TB     | 0.29925      | 222-1     | 1.40086          |
| 222   | 1.86781      | 4C26TB     | 0.32100      | 222-1     | 1.86781          |
| 223   | 0.00000      | 4C26TB     | 0.26418      | 223-1     | 0.00000          |
| 223   | 0.46695      | 4C26TB     | 0.26338      | 223-1     | 0.46695          |
| 223   | 0.93391      | 4C26TB     | 0.26258      | 223-1     | 0.93391          |
| 223   | 1.40086      | 4C26TB     | 0.26178      | 223-1     | 1.40086          |
| 223   | 1.86781      | 4C26TB     | 0.26098      | 223-1     | 1.86781          |
| 224   | 0.00000      | 4C26TB     | 0.26611      | 224-1     | 0.00000          |
| 224   | 0.46695      | 4C26TB     | 0.26956      | 224-1     | 0.46695          |
| 224   | 0.93391      | 4C26TB     | 0.27302      | 224-1     | 0.93391          |
| 224   | 1.40086      | 4C26TB     | 0.27647      | 224-1     | 1.40086          |
| 224   | 1.86781      | 4C26TB     | 0.27992      | 224-1     | 1.86781          |
| 225   | 0.00000      | 4C26TB     | 0.38003      | 225-1     | 0.00000          |
| 225   | 0.46695      | 4C26TB     | 0.21851      | 225-1     | 0.46695          |
| 225   | 0.93391      | 4C26TB     | 0.05698      | 225-1     | 0.93391          |
| 225   | 1.40086      | 4C26TB     | -0.10455     | 225-1     | 1.40086          |
| 225   | 1.86781      | 4C26TB     | -0.26607     | 225-1     | 1.86781          |
| 226   | 0.00000      | 4C26TB     | -0.13173     | 226-1     | 0.00000          |
| 226   | 0.46695      | 4C26TB     | -0.11486     | 226-1     | 0.46695          |
| 226   | 0.93391      | 4C26TB     | -0.09798     | 226-1     | 0.93391          |
| 226   | 1.40086      | 4C26TB     | -0.08111     | 226-1     | 1.40086          |
| 226   | 1.86781      | 4C26TB     | -0.06424     | 226-1     | 1.86781          |
| 227   | 0.00000      | 4C26TB     | 0.01908      | 227-1     | 0.00000          |
| 227   | 0.46695      | 4C26TB     | -0.01887     | 227-1     | 0.46695          |
| 227   | 0.93391      | 4C26TB     | -0.05682     | 227-1     | 0.93391          |
| 227   | 1.40086      | 4C26TB     | -0.09477     | 227-1     | 1.40086          |
| 227   | 1.86781      | 4C26TB     | -0.13272     | 227-1     | 1.86781          |
| 228   | 0.00000      | 4C26TB     | -0.17804     | 228-1     | 0.00000          |
| 228   | 0.46695      | 4C26TB     | -0.06940     | 228-1     | 0.46695          |
| 228   | 0.93391      | 4C26TB     | 0.03925      | 228-1     | 0.93391          |
| 228   | 1.40086      | 4C26TB     | 0.14789      | 228-1     | 1.40086          |
| 228   | 1.86781      | 4C26TB     | 0.25654      | 228-1     | 1.86781          |
| 229   | 0.00000      | 4C26TB     | 0.19417      | 229-1     | 0.00000          |
| 229   | 0.46695      | 4C26TB     | 0.19773      | 229-1     | 0.46695          |
| 229   | 0.93391      | 4C26TB     | 0.20129      | 229-1     | 0.93391          |
| 229   | 1.40086      | 4C26TB     | 0.20486      | 229-1     | 1.40086          |
| 229   | 1.86781      | 4C26TB     | 0.20842      | 229-1     | 1.86781          |
| 230   | 0.00000      | 4C26TB     | 0.17280      | 230-1     | 0.00000          |
| 230   | 0.46695      | 4C26TB     | 0.17727      | 230-1     | 0.46695          |
| 230   | 0.93391      | 4C26TB     | 0.18175      | 230-1     | 0.93391          |
| 230   | 1.40086      | 4C26TB     | 0.18623      | 230-1     | 1.40086          |
| 230   | 1.86781      | 4C26TB     | 0.19071      | 230-1     | 1.86781          |
| 231   | 0.00000      | 4C26TB     | 0.15800      | 231-1     | 0.00000          |
| 231   | 0.46695      | 4C26TB     | 0.17786      | 231-1     | 0.46695          |
| 231   | 0.93391      | 4C26TB     | 0.19771      | 231-1     | 0.93391          |

| Table: Element Forces - Frames, Part 2 of 2 |         |            |          |           |             |
|---------------------------------------------|---------|------------|----------|-----------|-------------|
| Frame                                       | Station | OutputCase | M3       | FrameElem | ElemStation |
|                                             | m       |            | Tonf-m   |           | m           |
| 231                                         | 1.40086 | 4C26TB     | 0.21757  | 231-1     | 1.40086     |
| 231                                         | 1.86781 | 4C26TB     | 0.23742  | 231-1     | 1.86781     |
| 232                                         | 0.00000 | 4C26TB     | 0.24685  | 232-1     | 0.00000     |
| 232                                         | 0.46695 | 4C26TB     | 0.14249  | 232-1     | 0.46695     |
| 232                                         | 0.93391 | 4C26TB     | 0.03814  | 232-1     | 0.93391     |
| 232                                         | 1.40086 | 4C26TB     | -0.06622 | 232-1     | 1.40086     |
| 232                                         | 1.86781 | 4C26TB     | -0.17057 | 232-1     | 1.86781     |
| 233                                         | 0.00000 | 4C26TB     | -0.13403 | 233-1     | 0.00000     |
| 233                                         | 0.46695 | 4C26TB     | -0.10514 | 233-1     | 0.46695     |
| 233                                         | 0.93391 | 4C26TB     | -0.07625 | 233-1     | 0.93391     |
| 233                                         | 1.40086 | 4C26TB     | -0.04736 | 233-1     | 1.40086     |
| 233                                         | 1.86781 | 4C26TB     | -0.01848 | 233-1     | 1.86781     |
| 234                                         | 0.00000 | 4C26TB     | 0.12970  | 234-1     | 0.00000     |
| 234                                         | 0.46695 | 4C26TB     | 0.04936  | 234-1     | 0.46695     |
| 234                                         | 0.93391 | 4C26TB     | -0.03098 | 234-1     | 0.93391     |
| 234                                         | 1.40086 | 4C26TB     | -0.11132 | 234-1     | 1.40086     |
| 234                                         | 1.86781 | 4C26TB     | -0.19167 | 234-1     | 1.86781     |
| 235                                         | 0.00000 | 4C26TB     | 0.01031  | 235-1     | 0.00000     |
| 235                                         | 0.46695 | 4C26TB     | 0.01618  | 235-1     | 0.46695     |
| 235                                         | 0.93391 | 4C26TB     | 0.02205  | 235-1     | 0.93391     |
| 235                                         | 1.40086 | 4C26TB     | 0.02791  | 235-1     | 1.40086     |
| 235                                         | 1.86781 | 4C26TB     | 0.03378  | 235-1     | 1.86781     |
| 236                                         | 0.00000 | 4C26TB     | 0.18371  | 236-1     | 0.00000     |
| 236                                         | 0.46695 | 4C26TB     | 0.15207  | 236-1     | 0.46695     |
| 236                                         | 0.93391 | 4C26TB     | 0.12043  | 236-1     | 0.93391     |
| 236                                         | 1.40086 | 4C26TB     | 0.08879  | 236-1     | 1.40086     |
| 236                                         | 1.86781 | 4C26TB     | 0.05716  | 236-1     | 1.86781     |
| 237                                         | 0.00000 | 4C26TB     | 0.08101  | 237-1     | 0.00000     |
| 237                                         | 0.46695 | 4C26TB     | 0.09092  | 237-1     | 0.46695     |
| 237                                         | 0.93391 | 4C26TB     | 0.10083  | 237-1     | 0.93391     |
| 237                                         | 1.40086 | 4C26TB     | 0.11074  | 237-1     | 1.40086     |
| 237                                         | 1.86781 | 4C26TB     | 0.12065  | 237-1     | 1.86781     |
| 238                                         | 0.00000 | 4C26TB     | 0.01370  | 238-1     | 0.00000     |
| 238                                         | 0.46695 | 4C26TB     | 0.06589  | 238-1     | 0.46695     |
| 238                                         | 0.93391 | 4C26TB     | 0.11809  | 238-1     | 0.93391     |
| 238                                         | 1.40086 | 4C26TB     | 0.17028  | 238-1     | 1.40086     |
| 238                                         | 1.86781 | 4C26TB     | 0.22248  | 238-1     | 1.86781     |
| 239                                         | 0.00000 | 4C26TB     | 0.00932  | 239-1     | 0.00000     |
| 239                                         | 0.46695 | 4C26TB     | 0.01405  | 239-1     | 0.46695     |
| 239                                         | 0.93391 | 4C26TB     | 0.01879  | 239-1     | 0.93391     |
| 239                                         | 1.40086 | 4C26TB     | 0.02352  | 239-1     | 1.40086     |
| 239                                         | 1.86781 | 4C26TB     | 0.02825  | 239-1     | 1.86781     |
| 240                                         | 0.00000 | 4C26TB     | -0.18394 | 240-1     | 0.00000     |
| 240                                         | 0.46695 | 4C26TB     | -0.11645 | 240-1     | 0.46695     |
| 240                                         | 0.93391 | 4C26TB     | -0.04896 | 240-1     | 0.93391     |
| 240                                         | 1.40086 | 4C26TB     | 0.01854  | 240-1     | 1.40086     |
| 240                                         | 1.86781 | 4C26TB     | 0.08603  | 240-1     | 1.86781     |
| 241                                         | 0.00000 | 4C26TB     | 0.42455  | 241-1     | 0.00000     |
| 241                                         | 0.46695 | 4C26TB     | 0.20835  | 241-1     | 0.46695     |
| 241                                         | 0.93391 | 4C26TB     | -0.00785 | 241-1     | 0.93391     |
| 241                                         | 1.40086 | 4C26TB     | -0.22405 | 241-1     | 1.40086     |
| 241                                         | 1.86781 | 4C26TB     | -0.44025 | 241-1     | 1.86781     |
| 242                                         | 0.00000 | 4C26TB     | 0.44190  | 242-1     | 0.00000     |
| 242                                         | 0.46695 | 4C26TB     | 0.22446  | 242-1     | 0.46695     |
| 242                                         | 0.93391 | 4C26TB     | 0.00702  | 242-1     | 0.93391     |
| 242                                         | 1.40086 | 4C26TB     | -0.21042 | 242-1     | 1.40086     |
| 242                                         | 1.86781 | 4C26TB     | -0.42786 | 242-1     | 1.86781     |
| 243                                         | 0.00000 | 4C26TB     | 0.30572  | 243-1     | 0.00000     |
| 243                                         | 0.46695 | 4C26TB     | 0.18015  | 243-1     | 0.46695     |

| Table: Element Forces - Frames, Part 2 of 2 |         |            |          |           |             |
|---------------------------------------------|---------|------------|----------|-----------|-------------|
| Frame                                       | Station | OutputCase | M3       | FrameElem | ElemStation |
|                                             | m       |            | Tonf-m   |           | m           |
| 243                                         | 0.93391 | 4C26TB     | 0.05458  | 243-1     | 0.93391     |
| 243                                         | 1.40086 | 4C26TB     | -0.07099 | 243-1     | 1.40086     |
| 243                                         | 1.86781 | 4C26TB     | -0.19656 | 243-1     | 1.86781     |
| 244                                         | 0.00000 | 4C26TB     | 0.01577  | 244-1     | 0.00000     |
| 244                                         | 0.46695 | 4C26TB     | 0.02619  | 244-1     | 0.46695     |
| 244                                         | 0.93391 | 4C26TB     | 0.03660  | 244-1     | 0.93391     |
| 244                                         | 1.40086 | 4C26TB     | 0.04702  | 244-1     | 1.40086     |
| 244                                         | 1.86781 | 4C26TB     | 0.05743  | 244-1     | 1.86781     |
| 245                                         | 0.00000 | 4C26TB     | -0.23540 | 245-1     | 0.00000     |
| 245                                         | 0.46695 | 4C26TB     | -0.09112 | 245-1     | 0.46695     |
| 245                                         | 0.93391 | 4C26TB     | 0.05316  | 245-1     | 0.93391     |
| 245                                         | 1.40086 | 4C26TB     | 0.19744  | 245-1     | 1.40086     |
| 245                                         | 1.86781 | 4C26TB     | 0.34173  | 245-1     | 1.86781     |
| 246                                         | 0.00000 | 4C26TB     | -0.45467 | 246-1     | 0.00000     |
| 246                                         | 0.46695 | 4C26TB     | -0.22543 | 246-1     | 0.46695     |
| 246                                         | 0.93391 | 4C26TB     | 0.00380  | 246-1     | 0.93391     |
| 246                                         | 1.40086 | 4C26TB     | 0.23304  | 246-1     | 1.40086     |
| 246                                         | 1.86781 | 4C26TB     | 0.46227  | 246-1     | 1.86781     |
| 247                                         | 0.00000 | 4C26TB     | -0.42181 | 247-1     | 0.00000     |
| 247                                         | 0.46695 | 4C26TB     | -0.22301 | 247-1     | 0.46695     |
| 247                                         | 0.93391 | 4C26TB     | -0.02421 | 247-1     | 0.93391     |
| 247                                         | 1.40086 | 4C26TB     | 0.17459  | 247-1     | 1.40086     |
| 247                                         | 1.86781 | 4C26TB     | 0.37339  | 247-1     | 1.86781     |

Table: Joint Displacements

| Table: Joint Displacements |            |           |           |            |            |           |            |            |
|----------------------------|------------|-----------|-----------|------------|------------|-----------|------------|------------|
| Joint                      | OutputCase | CaseType  | U1        | U2         | U3         | R1        | R2         | R3         |
|                            |            |           | m         | m          | m          | Radians   | Radians    | Radians    |
| 1                          | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000   | -0.000048 | 5.035E-06  | 9.811E-20  |
| 2                          | 4C26TB     | LinStatic | 1.177E-19 | 1.710E-19  | -4.584E-06 | -0.000125 | 4.971E-06  | 5.140E-20  |
| 3                          | 4C26TB     | LinStatic | 1.896E-19 | 2.636E-19  | -9.314E-06 | -0.000224 | 5.059E-06  | 6.148E-20  |
| 4                          | 4C26TB     | LinStatic | 2.354E-19 | 3.622E-19  | -0.000014  | -0.000324 | 4.941E-06  | 6.592E-20  |
| 5                          | 4C26TB     | LinStatic | 2.629E-19 | 4.593E-19  | -0.000019  | -0.000414 | 4.504E-06  | 6.317E-20  |
| 6                          | 4C26TB     | LinStatic | 2.764E-19 | 5.470E-19  | -0.000023  | -0.000489 | 3.731E-06  | 5.344E-20  |
| 7                          | 4C26TB     | LinStatic | 2.789E-19 | 6.179E-19  | -0.000026  | -0.000547 | 2.665E-06  | 3.768E-20  |
| 8                          | 4C26TB     | LinStatic | 2.730E-19 | 6.652E-19  | -0.000028  | -0.000583 | 1.386E-06  | 1.728E-20  |
| 9                          | 4C26TB     | LinStatic | 2.608E-19 | 2.702E-19  | -0.000028  | -0.000596 | -3.858E-09 | 0.000000   |
| 10                         | 4C26TB     | LinStatic | 2.437E-19 | 7.023E-19  | -0.000028  | -0.000587 | -1.387E-06 | -1.287E-20 |
| 11                         | 4C26TB     | LinStatic | 2.267E-19 | 6.865E-19  | -0.000026  | -0.000555 | -2.649E-06 | -3.763E-20 |
| 12                         | 4C26TB     | LinStatic | 2.109E-19 | 6.417E-19  | -0.000023  | -0.000501 | -3.692E-06 | -6.087E-20 |
| 13                         | 4C26TB     | LinStatic | 1.976E-19 | 5.716E-19  | -0.000019  | -0.000428 | -4.448E-06 | -8.147E-20 |
| 14                         | 4C26TB     | LinStatic | 1.876E-19 | 4.799E-19  | -0.000014  | -0.000339 | -4.890E-06 | -9.890E-20 |
| 15                         | 4C26TB     | LinStatic | 1.817E-19 | 3.699E-19  | -9.481E-06 | -0.000240 | -5.056E-06 | -1.131E-19 |
| 16                         | 4C26TB     | LinStatic | 1.807E-19 | 2.434E-19  | -4.735E-06 | -0.000140 | -5.090E-06 | -1.246E-19 |
| 17                         | 4C26TB     | LinStatic | 1.897E-19 | 0.000000   | 0.000000   | -0.000061 | -5.361E-06 | -1.912E-19 |
| 18                         | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000   | -0.000043 | 0.000247   | -2.169E-20 |
| 19                         | 4C26TB     | LinStatic | 1.462E-19 | 4.276E-20  | -0.000241  | -0.000143 | 0.000243   | -8.131E-20 |
| 20                         | 4C26TB     | LinStatic | 1.458E-19 | 0.000000   | -0.000474  | -0.000268 | 0.000228   | -6.404E-20 |
| 21                         | 4C26TB     | LinStatic | 1.589E-19 | -2.943E-20 | -0.000687  | -0.000389 | 0.000205   | -4.738E-20 |
| 22                         | 4C26TB     | LinStatic | 1.790E-19 | -4.417E-20 | -0.000874  | -0.000495 | 0.000174   | -3.311E-20 |
| 23                         | 4C26TB     | LinStatic | 2.031E-19 | -4.825E-20 | -0.001027  | -0.000582 | 0.000137   | -2.164E-20 |
| 24                         | 4C26TB     | LinStatic | 2.293E-19 | -4.416E-20 | -0.001141  | -0.000648 | 0.000095   | -1.295E-20 |
| 25                         | 4C26TB     | LinStatic | 2.563E-19 | -3.377E-20 | -0.001212  | -0.000690 | 0.000049   | 0.000000   |
| 26                         | 4C26TB     | LinStatic | 2.651E-19 | -5.073E-19 | -0.001236  | -0.000707 | 1.225E-06  | 0.000000   |
| 27                         | 4C26TB     | LinStatic | 2.749E-19 | 0.000000   | -0.001214  | -0.000699 | -0.000046  | 1.297E-20  |
| 28                         | 4C26TB     | LinStatic | 3.004E-19 | 0.000000   | -0.001146  | -0.000666 | -0.000093  | 1.514E-20  |
| 29                         | 4C26TB     | LinStatic | 3.248E-19 | 1.205E-20  | -0.001033  | -0.000609 | -0.000136  | 1.787E-20  |

| Table: Joint Displacements |            |           |           |            |           |            |            |            |
|----------------------------|------------|-----------|-----------|------------|-----------|------------|------------|------------|
| Joint                      | OutputCase | CaseType  | U1        | U2         | U3        | R1         | R2         | R3         |
|                            |            |           | m         | m          | m         | Radians    | Radians    | Radians    |
| 30                         | 4C26TB     | LinStatic | 3.474E-19 | 2.639E-20  | -0.000881 | -0.000529  | -0.000174  | 2.084E-20  |
| 31                         | 4C26TB     | LinStatic | 3.675E-19 | 4.484E-20  | -0.000694 | -0.000429  | -0.000206  | 2.384E-20  |
| 32                         | 4C26TB     | LinStatic | 3.848E-19 | 6.849E-20  | -0.000479 | -0.000314  | -0.000230  | 2.650E-20  |
| 33                         | 4C26TB     | LinStatic | 3.991E-19 | 9.865E-20  | -0.000245 | -0.000193  | -0.000245  | 2.785E-20  |
| 34                         | 4C26TB     | LinStatic | 5.872E-19 | 0.000000   | 0.000000  | -0.000094  | -0.000251  | -4.625E-20 |
| 35                         | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000  | -7.226E-06 | 0.000550   | 5.407E-20  |
| 36                         | 4C26TB     | LinStatic | 3.539E-19 | 6.137E-20  | -0.000538 | -0.000095  | 0.000534   | 0.000000   |
| 37                         | 4C26TB     | LinStatic | 3.285E-19 | 6.595E-20  | -0.001042 | -0.000206  | 0.000489   | 0.000000   |
| 38                         | 4C26TB     | LinStatic | 3.112E-19 | 7.865E-20  | -0.001492 | -0.000315  | 0.000426   | 0.000000   |
| 39                         | 4C26TB     | LinStatic | 3.011E-19 | 9.677E-20  | -0.001873 | -0.000411  | 0.000353   | 0.000000   |
| 40                         | 4C26TB     | LinStatic | 2.971E-19 | 1.181E-19  | -0.002180 | -0.000492  | 0.000274   | 0.000000   |
| 41                         | 4C26TB     | LinStatic | 2.980E-19 | 1.412E-19  | -0.002407 | -0.000554  | 0.000188   | 0.000000   |
| 42                         | 4C26TB     | LinStatic | 3.027E-19 | 1.650E-19  | -0.002546 | -0.000596  | 0.000095   | 0.000000   |
| 43                         | 4C26TB     | LinStatic | 2.761E-19 | -2.333E-19 | -0.002592 | -0.000617  | 3.220E-07  | 0.000000   |
| 44                         | 4C26TB     | LinStatic | 2.520E-19 | 1.948E-19  | -0.002547 | -0.000616  | -0.000094  | 0.000000   |
| 45                         | 4C26TB     | LinStatic | 2.611E-19 | 1.858E-19  | -0.002408 | -0.000593  | -0.000187  | 0.000000   |
| 46                         | 4C26TB     | LinStatic | 2.697E-19 | 1.761E-19  | -0.002181 | -0.000549  | -0.000274  | 0.000000   |
| 47                         | 4C26TB     | LinStatic | 2.772E-19 | 1.657E-19  | -0.001874 | -0.000485  | -0.000353  | -1.153E-20 |
| 48                         | 4C26TB     | LinStatic | 2.831E-19 | 1.553E-19  | -0.001492 | -0.000404  | -0.000425  | -1.370E-20 |
| 49                         | 4C26TB     | LinStatic | 2.867E-19 | 1.465E-19  | -0.001044 | -0.000307  | -0.000488  | -1.516E-20 |
| 50                         | 4C26TB     | LinStatic | 2.870E-19 | 1.418E-19  | -0.000539 | -0.000205  | -0.000534  | -1.623E-20 |
| 51                         | 4C26TB     | LinStatic | 6.707E-19 | 0.000000   | 0.000000  | -0.000121  | -0.000552  | -7.951E-20 |
| 52                         | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000  | 0.000057   | 0.000712   | 7.941E-20  |
| 53                         | 4C26TB     | LinStatic | 4.562E-19 | 3.653E-20  | -0.000695 | 0.000026   | 0.000691   | 5.397E-20  |
| 54                         | 4C26TB     | LinStatic | 4.187E-19 | 8.797E-20  | -0.001349 | -0.000016  | 0.000635   | 5.073E-20  |
| 55                         | 4C26TB     | LinStatic | 3.882E-19 | 1.362E-19  | -0.001935 | -0.000059  | 0.000557   | 4.614E-20  |
| 56                         | 4C26TB     | LinStatic | 3.643E-19 | 1.799E-19  | -0.002436 | -0.000101  | 0.000465   | 4.004E-20  |
| 57                         | 4C26TB     | LinStatic | 3.465E-19 | 2.179E-19  | -0.002842 | -0.000138  | 0.000362   | 3.248E-20  |
| 58                         | 4C26TB     | LinStatic | 3.342E-19 | 2.485E-19  | -0.003142 | -0.000170  | 0.000248   | 2.352E-20  |
| 59                         | 4C26TB     | LinStatic | 3.269E-19 | 2.703E-19  | -0.003325 | -0.000194  | 0.000126   | 1.333E-20  |
| 60                         | 4C26TB     | LinStatic | 2.789E-19 | 1.435E-19  | -0.003387 | -0.000211  | 9.010E-07  | 1.442E-20  |
| 61                         | 4C26TB     | LinStatic | 2.338E-19 | 2.991E-19  | -0.003327 | -0.000220  | -0.000124  | 0.000000   |
| 62                         | 4C26TB     | LinStatic | 2.326E-19 | 2.878E-19  | -0.003145 | -0.000220  | -0.000246  | -1.556E-20 |
| 63                         | 4C26TB     | LinStatic | 2.309E-19 | 2.676E-19  | -0.002846 | -0.000211  | -0.000360  | -2.525E-20 |
| 64                         | 4C26TB     | LinStatic | 2.285E-19 | 2.400E-19  | -0.002442 | -0.000195  | -0.000464  | -3.380E-20 |
| 65                         | 4C26TB     | LinStatic | 2.251E-19 | 2.062E-19  | -0.001941 | -0.000173  | -0.000558  | -4.122E-20 |
| 66                         | 4C26TB     | LinStatic | 2.205E-19 | 1.676E-19  | -0.001353 | -0.000145  | -0.000638  | -4.734E-20 |
| 67                         | 4C26TB     | LinStatic | 2.146E-19 | 1.258E-19  | -0.000697 | -0.000115  | -0.000693  | -5.211E-20 |
| 68                         | 4C26TB     | LinStatic | 7.093E-19 | 0.000000   | 0.000000  | -0.000090  | -0.000713  | -7.486E-20 |
| 69                         | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000  | 0.000090   | 0.000713   | 7.692E-20  |
| 70                         | 4C26TB     | LinStatic | 4.568E-19 | 0.000000   | -0.000697 | 0.000115   | 0.000693   | 9.152E-20  |
| 71                         | 4C26TB     | LinStatic | 4.199E-19 | 7.412E-20  | -0.001353 | 0.000145   | 0.000638   | 8.325E-20  |
| 72                         | 4C26TB     | LinStatic | 3.896E-19 | 1.387E-19  | -0.001942 | 0.000173   | 0.000558   | 7.243E-20  |
| 73                         | 4C26TB     | LinStatic | 3.650E-19 | 1.919E-19  | -0.002442 | 0.000195   | 0.000464   | 6.028E-20  |
| 74                         | 4C26TB     | LinStatic | 3.454E-19 | 2.333E-19  | -0.002846 | 0.000211   | 0.000360   | 4.754E-20  |
| 75                         | 4C26TB     | LinStatic | 3.303E-19 | 2.627E-19  | -0.003145 | 0.000220   | 0.000246   | 3.464E-20  |
| 76                         | 4C26TB     | LinStatic | 3.192E-19 | 2.805E-19  | -0.003327 | 0.000220   | 0.000124   | 2.220E-20  |
| 77                         | 4C26TB     | LinStatic | 2.679E-19 | 4.439E-19  | -0.003387 | 0.000211   | -9.707E-07 | 1.736E-20  |
| 78                         | 4C26TB     | LinStatic | 2.174E-19 | 3.037E-19  | -0.003325 | 0.000195   | -0.000126  | 0.000000   |
| 79                         | 4C26TB     | LinStatic | 2.116E-19 | 2.912E-19  | -0.003142 | 0.000170   | -0.000248  | -1.943E-20 |
| 80                         | 4C26TB     | LinStatic | 2.055E-19 | 2.679E-19  | -0.002842 | 0.000138   | -0.000362  | -3.136E-20 |
| 81                         | 4C26TB     | LinStatic | 1.989E-19 | 2.340E-19  | -0.002436 | 0.000101   | -0.000465  | -4.250E-20 |
| 82                         | 4C26TB     | LinStatic | 1.917E-19 | 1.901E-19  | -0.001935 | 0.000059   | -0.000557  | -5.249E-20 |
| 83                         | 4C26TB     | LinStatic | 1.842E-19 | 1.377E-19  | -0.001349 | 0.000016   | -0.000635  | -6.071E-20 |
| 84                         | 4C26TB     | LinStatic | 1.763E-19 | 7.901E-20  | -0.000695 | -0.000026  | -0.000691  | -6.614E-20 |
| 85                         | 4C26TB     | LinStatic | 6.690E-19 | 0.000000   | 0.000000  | -0.000057  | -0.000711  | -4.462E-20 |
| 86                         | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000  | 0.000121   | 0.000552   | 5.162E-20  |
| 87                         | 4C26TB     | LinStatic | 3.612E-19 | -4.944E-20 | -0.000539 | 0.000205   | 0.000534   | 1.037E-19  |
| 88                         | 4C26TB     | LinStatic | 3.415E-19 | 2.740E-20  | -0.001044 | 0.000307   | 0.000488   | 9.030E-20  |

| Table: Joint Displacements |            |           |           |            |            |           |            |            |
|----------------------------|------------|-----------|-----------|------------|------------|-----------|------------|------------|
| Joint                      | OutputCase | CaseType  | U1        | U2         | U3         | R1        | R2         | R3         |
|                            |            |           | m         | m          | m          | Radians   | Radians    | Radians    |
| 89                         | 4C26TB     | LinStatic | 3.260E-19 | 8.744E-20  | -0.001493  | 0.000404  | 0.000425   | 7.581E-20  |
| 90                         | 4C26TB     | LinStatic | 3.130E-19 | 1.325E-19  | -0.001874  | 0.000485  | 0.000353   | 6.158E-20  |
| 91                         | 4C26TB     | LinStatic | 3.019E-19 | 1.639E-19  | -0.002181  | 0.000549  | 0.000274   | 4.805E-20  |
| 92                         | 4C26TB     | LinStatic | 2.924E-19 | 1.820E-19  | -0.002408  | 0.000593  | 0.000187   | 3.545E-20  |
| 93                         | 4C26TB     | LinStatic | 2.842E-19 | 1.867E-19  | -0.002547  | 0.000616  | 0.000094   | 2.460E-20  |
| 94                         | 4C26TB     | LinStatic | 2.442E-19 | 6.143E-19  | -0.002592  | 0.000617  | -3.805E-07 | 1.734E-20  |
| 95                         | 4C26TB     | LinStatic | 2.038E-19 | 2.017E-19  | -0.002546  | 0.000596  | -0.000095  | 0.000000   |
| 96                         | 4C26TB     | LinStatic | 1.975E-19 | 1.983E-19  | -0.002407  | 0.000554  | -0.000188  | -1.432E-20 |
| 97                         | 4C26TB     | LinStatic | 1.915E-19 | 1.824E-19  | -0.002180  | 0.000492  | -0.000274  | -2.496E-20 |
| 98                         | 4C26TB     | LinStatic | 1.855E-19 | 1.548E-19  | -0.001873  | 0.000411  | -0.000353  | -3.553E-20 |
| 99                         | 4C26TB     | LinStatic | 1.795E-19 | 1.159E-19  | -0.001492  | 0.000315  | -0.000425  | -4.566E-20 |
| 100                        | 4C26TB     | LinStatic | 1.734E-19 | 6.582E-20  | -0.001042  | 0.000206  | -0.000489  | -5.468E-20 |
| 101                        | 4C26TB     | LinStatic | 1.669E-19 | 0.000000   | -0.000538  | 0.000095  | -0.000533  | -6.125E-20 |
| 102                        | 4C26TB     | LinStatic | 5.460E-19 | 0.000000   | 0.000000   | 7.224E-06 | -0.000550  | 0.000000   |
| 103                        | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000   | 0.000094  | 0.000251   | 1.175E-20  |
| 104                        | 4C26TB     | LinStatic | 2.000E-19 | -8.013E-20 | -0.000245  | 0.000193  | 0.000245   | 7.612E-20  |
| 105                        | 4C26TB     | LinStatic | 2.166E-19 | -3.504E-20 | -0.000479  | 0.000314  | 0.000230   | 6.519E-20  |
| 106                        | 4C26TB     | LinStatic | 2.278E-19 | 0.000000   | -0.000694  | 0.000429  | 0.000206   | 5.390E-20  |
| 107                        | 4C26TB     | LinStatic | 2.346E-19 | 2.237E-20  | -0.000881  | 0.000529  | 0.000174   | 4.342E-20  |
| 108                        | 4C26TB     | LinStatic | 2.379E-19 | 3.736E-20  | -0.001033  | 0.000609  | 0.000136   | 3.419E-20  |
| 109                        | 4C26TB     | LinStatic | 2.381E-19 | 4.494E-20  | -0.001145  | 0.000666  | 0.000093   | 2.645E-20  |
| 110                        | 4C26TB     | LinStatic | 2.359E-19 | 4.614E-20  | -0.001214  | 0.000699  | 0.000046   | 2.055E-20  |
| 111                        | 4C26TB     | LinStatic | 2.155E-19 | 5.370E-19  | -0.001236  | 0.000707  | -1.235E-06 | 1.184E-20  |
| 112                        | 4C26TB     | LinStatic | 1.931E-19 | 5.174E-20  | -0.001212  | 0.000690  | -0.000049  | 0.000000   |
| 113                        | 4C26TB     | LinStatic | 1.889E-19 | 4.923E-20  | -0.001141  | 0.000648  | -0.000095  | 0.000000   |
| 114                        | 4C26TB     | LinStatic | 1.854E-19 | 4.052E-20  | -0.001027  | 0.000582  | -0.000137  | -1.324E-20 |
| 115                        | 4C26TB     | LinStatic | 1.828E-19 | 2.542E-20  | -0.000874  | 0.000495  | -0.000174  | -1.890E-20 |
| 116                        | 4C26TB     | LinStatic | 1.814E-19 | 0.000000   | -0.000687  | 0.000389  | -0.000205  | -2.417E-20 |
| 117                        | 4C26TB     | LinStatic | 1.816E-19 | -2.458E-20 | -0.000473  | 0.000268  | -0.000228  | -2.848E-20 |
| 118                        | 4C26TB     | LinStatic | 1.840E-19 | -5.976E-20 | -0.000241  | 0.000143  | -0.000243  | -3.078E-20 |
| 119                        | 4C26TB     | LinStatic | 3.639E-19 | 0.000000   | 0.000000   | 0.000043  | -0.000247  | 4.390E-20  |
| 120                        | 4C26TB     | LinStatic | 0.000000  | 0.000000   | 0.000000   | 0.000061  | 5.350E-06  | -2.058E-20 |
| 121                        | 4C26TB     | LinStatic | 6.740E-20 | -9.069E-20 | -4.724E-06 | 0.000140  | 5.079E-06  | 3.520E-20  |
| 122                        | 4C26TB     | LinStatic | 1.135E-19 | -8.182E-20 | -9.461E-06 | 0.000240  | 5.047E-06  | 2.996E-20  |
| 123                        | 4C26TB     | LinStatic | 1.469E-19 | -7.638E-20 | -0.000014  | 0.000339  | 4.882E-06  | 2.394E-20  |
| 124                        | 4C26TB     | LinStatic | 1.704E-19 | -7.462E-20 | -0.000019  | 0.000428  | 4.442E-06  | 1.880E-20  |
| 125                        | 4C26TB     | LinStatic | 1.856E-19 | -7.494E-20 | -0.000023  | 0.000501  | 3.689E-06  | 1.533E-20  |
| 126                        | 4C26TB     | LinStatic | 1.939E-19 | -7.478E-20 | -0.000026  | 0.000555  | 2.648E-06  | 1.372E-20  |
| 127                        | 4C26TB     | LinStatic | 1.967E-19 | -7.109E-20 | -0.000028  | 0.000587  | 1.387E-06  | 1.358E-20  |
| 128                        | 4C26TB     | LinStatic | 1.946E-19 | 3.549E-19  | -0.000028  | 0.000596  | 5.840E-09  | 0.000000   |
| 129                        | 4C26TB     | LinStatic | 1.919E-19 | -7.091E-20 | -0.000028  | 0.000583  | -1.382E-06 | 0.000000   |
| 130                        | 4C26TB     | LinStatic | 1.892E-19 | -7.744E-20 | -0.000026  | 0.000547  | -2.661E-06 | 0.000000   |
| 131                        | 4C26TB     | LinStatic | 1.871E-19 | -8.042E-20 | -0.000023  | 0.000489  | -3.727E-06 | 0.000000   |
| 132                        | 4C26TB     | LinStatic | 1.862E-19 | -8.228E-20 | -0.000019  | 0.000414  | -4.498E-06 | 0.000000   |
| 133                        | 4C26TB     | LinStatic | 1.870E-19 | -8.453E-20 | -0.000014  | 0.000324  | -4.935E-06 | 0.000000   |
| 134                        | 4C26TB     | LinStatic | 1.895E-19 | -8.762E-20 | -9.301E-06 | 0.000224  | -5.053E-06 | 0.000000   |
| 135                        | 4C26TB     | LinStatic | 1.944E-19 | -9.033E-20 | -4.577E-06 | 0.000125  | -4.964E-06 | 0.000000   |
| 136                        | 4C26TB     | LinStatic | 2.062E-19 | 0.000000   | 0.000000   | 0.000048  | -5.027E-06 | 6.507E-20  |

Table: Modal Load Participation Ratios

| Table: Modal Load Participation Ratios |              |      |                |                 |
|----------------------------------------|--------------|------|----------------|-----------------|
| OutputCase                             | ItemType     | Item | Static Percent | Dynamic Percent |
| MODAL                                  | Acceleration | UX   | 0.0000         | 0.0000          |
| MODAL                                  | Acceleration | UY   | 0.0000         | 0.0000          |
| MODAL                                  | Acceleration | UZ   | 99.8543        | 85.9057         |

Table: Modal Participating Mass Ratios, Part 1 of 3

| Table: Modal Participating Mass Ratios, Part 1 of 3 |          |           |            |          |          |           |          |          |
|-----------------------------------------------------|----------|-----------|------------|----------|----------|-----------|----------|----------|
| OutputCase                                          | StepType | StepNum   | Period Sec | UX       | UY       | UZ        | SumUX    | SumUY    |
| MODAL                                               | Mode     | 1.000000  | 0.152242   | 0.000000 | 0.000000 | 0.846829  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 2.000000  | 0.150519   | 0.000000 | 0.000000 | 0.000000  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 3.000000  | 0.135794   | 0.000000 | 0.000000 | 0.012206  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 4.000000  | 0.104803   | 0.000000 | 0.000000 | 1.237E-20 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 5.000000  | 0.071516   | 0.000000 | 0.000000 | 0.000022  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 6.000000  | 0.048428   | 0.000000 | 0.000000 | 1.049E-19 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 7.000000  | 0.038827   | 0.000000 | 0.000000 | 1.703E-07 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 8.000000  | 0.038827   | 0.000000 | 0.000000 | 3.515E-17 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 9.000000  | 0.037581   | 0.000000 | 0.000000 | 6.114E-17 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 10.000000 | 0.036072   | 0.000000 | 0.000000 | 4.611E-08 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 11.000000 | 0.034774   | 0.000000 | 0.000000 | 1.584E-07 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 12.000000 | 0.033261   | 0.000000 | 0.000000 | 1.565E-16 | 0.000000 | 0.000000 |

Table: Modal Participating Mass Ratios, Part 2 of 3

| Table: Modal Participating Mass Ratios, Part 2 of 3 |          |           |          |           |           |          |          |          |
|-----------------------------------------------------|----------|-----------|----------|-----------|-----------|----------|----------|----------|
| OutputCase                                          | StepType | StepNum   | SumUZ    | RX        | RY        | RZ       | SumRX    | SumRY    |
| MODAL                                               | Mode     | 1.000000  | 0.846829 | 0.592780  | 0.678198  | 0.000000 | 0.592780 | 0.678198 |
| MODAL                                               | Mode     | 2.000000  | 0.846829 | 0.257729  | 0.002010  | 0.000000 | 0.850509 | 0.680208 |
| MODAL                                               | Mode     | 3.000000  | 0.859034 | 0.008544  | 0.009775  | 0.000000 | 0.859053 | 0.689984 |
| MODAL                                               | Mode     | 4.000000  | 0.859034 | 1.601E-07 | 8.353E-08 | 0.000000 | 0.859053 | 0.689984 |
| MODAL                                               | Mode     | 5.000000  | 0.859057 | 0.000016  | 0.000018  | 0.000000 | 0.859069 | 0.690002 |
| MODAL                                               | Mode     | 6.000000  | 0.859057 | 3.661E-08 | 4.382E-07 | 0.000000 | 0.859069 | 0.690002 |
| MODAL                                               | Mode     | 7.000000  | 0.859057 | 1.192E-07 | 1.364E-07 | 0.000000 | 0.859069 | 0.690002 |
| MODAL                                               | Mode     | 8.000000  | 0.859057 | 1.516E-09 | 0.099043  | 0.000000 | 0.859069 | 0.789045 |
| MODAL                                               | Mode     | 9.000000  | 0.859057 | 4.037E-07 | 0.042710  | 0.000000 | 0.859070 | 0.831755 |
| MODAL                                               | Mode     | 10.000000 | 0.859057 | 3.228E-08 | 3.694E-08 | 0.000000 | 0.859070 | 0.831755 |
| MODAL                                               | Mode     | 11.000000 | 0.859057 | 1.109E-07 | 1.269E-07 | 0.000000 | 0.859070 | 0.831755 |
| MODAL                                               | Mode     | 12.000000 | 0.859057 | 1.863E-07 | 0.000343  | 0.000000 | 0.859070 | 0.832097 |

Table: Modal Participating Mass Ratios, Part 3 of 3

| Table: Modal Participating Mass Ratios, Part 3 of 3 |          |          |          |
|-----------------------------------------------------|----------|----------|----------|
| OutputCase                                          | StepType | StepNum  | SumRZ    |
| MODAL                                               | Mode     | 1.000000 | 0.000000 |
| MODAL                                               | Mode     | 2.000000 | 0.000000 |
| MODAL                                               | Mode     | 3.000000 | 0.000000 |
| MODAL                                               | Mode     | 4.000000 | 0.000000 |
| MODAL                                               | Mode     | 5.000000 | 0.000000 |
| MODAL                                               | Mode     | 6.000000 | 0.000000 |
| MODAL                                               | Mode     | 7.000000 | 0.000000 |
| MODAL                                               | Mode     | 8.000000 | 0.000000 |

Table: Modal Participating Mass Ratios, Part 3 of 3

| OutputCase | StepType | StepNum   | SumRZ    |
|------------|----------|-----------|----------|
| MODAL      | Mode     | 9.000000  | 0.000000 |
| MODAL      | Mode     | 10.000000 | 0.000000 |
| MODAL      | Mode     | 11.000000 | 0.000000 |
| MODAL      | Mode     | 12.000000 | 0.000000 |

Table: Modal Participation Factors, Part 1 of 2

| Table: Modal Participation Factors, Part 1 of 2 |          |           |            |            |            |            |              |              |  |
|-------------------------------------------------|----------|-----------|------------|------------|------------|------------|--------------|--------------|--|
| OutputCase                                      | StepType | StepNum   | Period Sec | UX Tonf-s2 | UY Tonf-s2 | UZ Tonf-s2 | RX Tonf-m-s2 | RY Tonf-m-s2 |  |
| MODAL                                           | Mode     | 1.000000  | 0.152242   | 0.000000   | 0.000000   | -5.169711  | -33.603429   | 43.922315    |  |
| MODAL                                           | Mode     | 2.000000  | 0.150519   | 0.000000   | 0.000000   | 8.911E-11  | 22.157389    | -2.391275    |  |
| MODAL                                           | Mode     | 3.000000  | 0.135794   | 0.000000   | 0.000000   | 0.620657   | 4.034309     | -5.273159    |  |
| MODAL                                           | Mode     | 4.000000  | 0.104803   | 0.000000   | 0.000000   | -6.248E-10 | -0.017464    | 0.015415     |  |
| MODAL                                           | Mode     | 5.000000  | 0.071516   | 0.000000   | 0.000000   | 0.026571   | 0.172715     | -0.225752    |  |
| MODAL                                           | Mode     | 6.000000  | 0.048428   | 0.000000   | 0.000000   | -1.819E-09 | -0.008351    | 0.035307     |  |
| MODAL                                           | Mode     | 7.000000  | 0.038827   | 0.000000   | 0.000000   | -0.002318  | -0.015069    | 0.019701     |  |
| MODAL                                           | Mode     | 8.000000  | 0.038827   | 0.000000   | 0.000000   | -3.331E-08 | -0.001700    | -16.784873   |  |
| MODAL                                           | Mode     | 9.000000  | 0.037581   | 0.000000   | 0.000000   | -4.393E-08 | -0.027730    | -11.022281   |  |
| MODAL                                           | Mode     | 10.000000 | 0.036072   | 0.000000   | 0.000000   | -0.001206  | -0.007841    | 0.010250     |  |
| MODAL                                           | Mode     | 11.000000 | 0.034774   | 0.000000   | 0.000000   | -0.002236  | -0.014535    | 0.018997     |  |
| MODAL                                           | Mode     | 12.000000 | 0.033261   | 0.000000   | 0.000000   | -7.028E-08 | -0.018836    | -0.987070    |  |

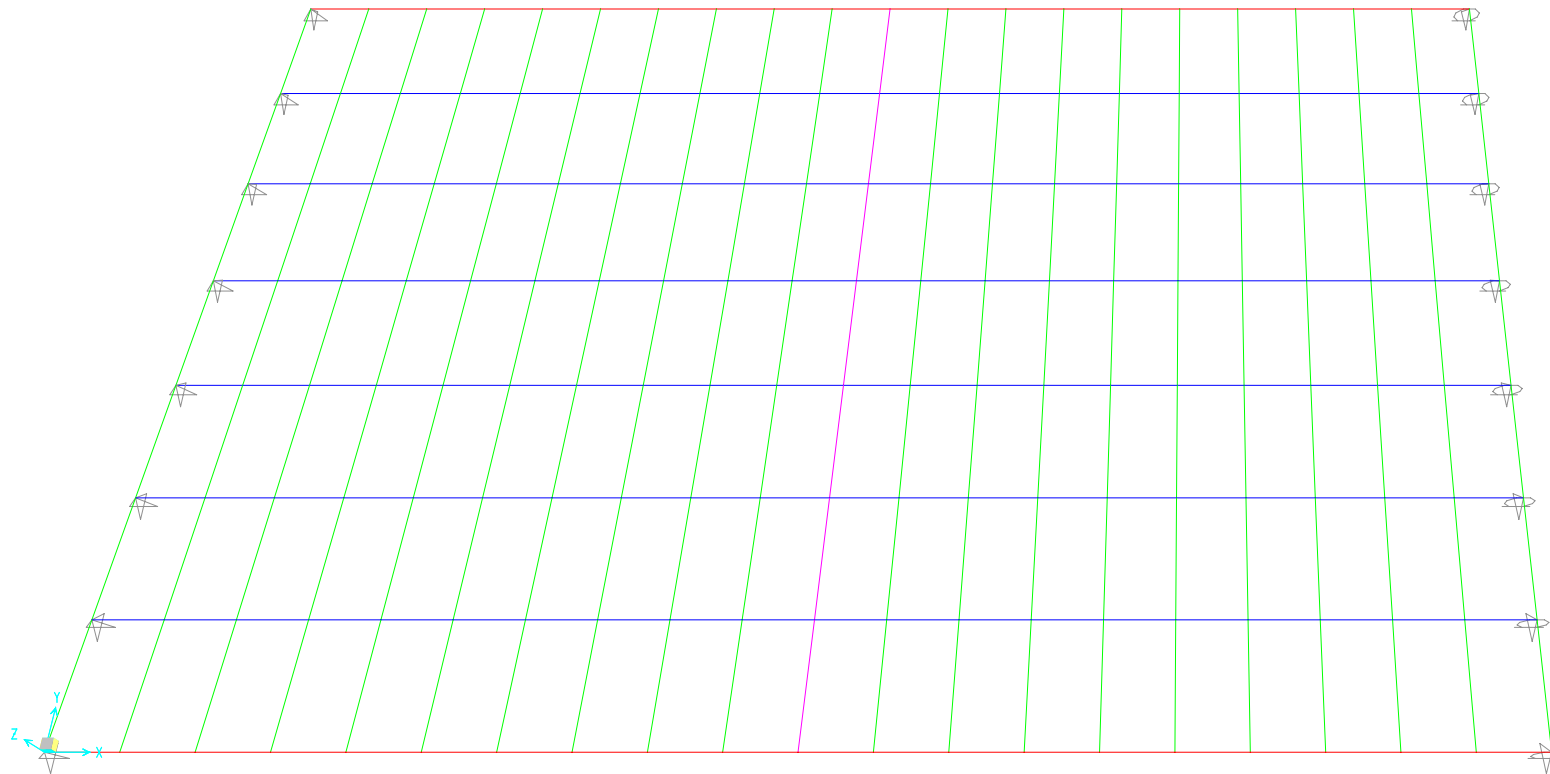
Table: Modal Participation Factors, Part 2 of 2

| Table: Modal Participation Factors, Part 2 of 2 |          |           |              |                     |                   |
|-------------------------------------------------|----------|-----------|--------------|---------------------|-------------------|
| OutputCase                                      | StepType | StepNum   | RZ Tonf-m-s2 | ModalMass Tonf-m-s2 | ModalStiff Tonf-m |
| MODAL                                           | Mode     | 1.000000  | 0.000000     | 1.0000              | 1703.289577       |
| MODAL                                           | Mode     | 2.000000  | 0.000000     | 1.0000              | 1742.515128       |
| MODAL                                           | Mode     | 3.000000  | 0.000000     | 1.0000              | 2140.903767       |
| MODAL                                           | Mode     | 4.000000  | 0.000000     | 1.0000              | 3594.305098       |
| MODAL                                           | Mode     | 5.000000  | 0.000000     | 1.0000              | 7718.851235       |
| MODAL                                           | Mode     | 6.000000  | 0.000000     | 1.0000              | 16833.06510       |
| MODAL                                           | Mode     | 7.000000  | 0.000000     | 1.0000              | 26186.82198       |
| MODAL                                           | Mode     | 8.000000  | 0.000000     | 1.0000              | 26186.83163       |
| MODAL                                           | Mode     | 9.000000  | 0.000000     | 1.0000              | 27953.26540       |
| MODAL                                           | Mode     | 10.000000 | 0.000000     | 1.0000              | 30339.66012       |
| MODAL                                           | Mode     | 11.000000 | 0.000000     | 1.0000              | 32647.9591        |
| MODAL                                           | Mode     | 12.000000 | 0.000000     | 1.0000              | 35685.3655        |

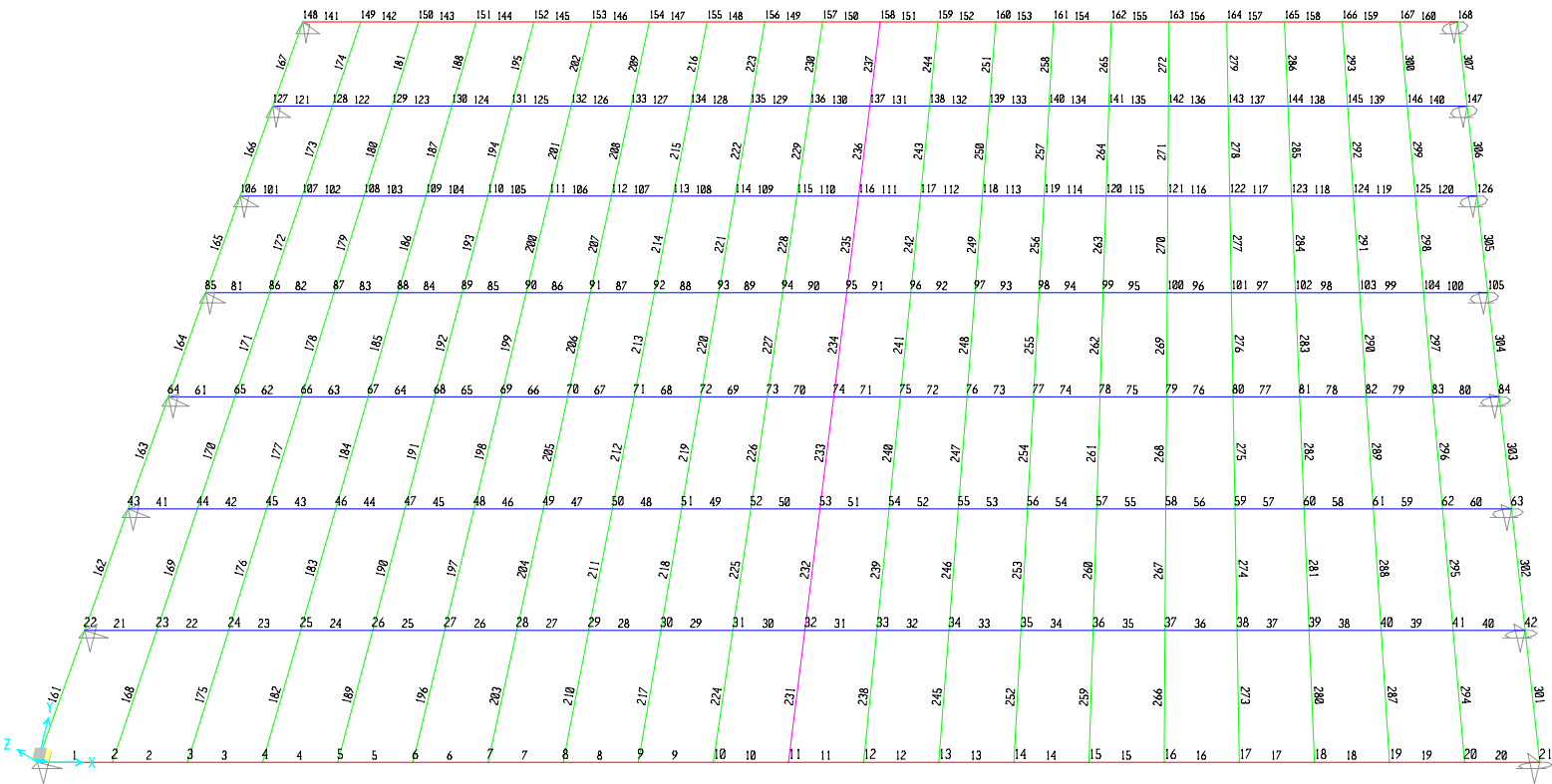
Table: Modal Periods And Frequencies

| Table: Modal Periods And Frequencies |          |           |            |                   |                  |                      |
|--------------------------------------|----------|-----------|------------|-------------------|------------------|----------------------|
| OutputCase                           | StepType | StepNum   | Period Sec | Frequency Cyc/sec | CircFreq rad/sec | Eigenvalue rad2/sec2 |
| MODAL                                | Mode     | 1.000000  | 0.152242   | 6.5685E+00        | 4.1271E+01       | 1.7033E+03           |
| MODAL                                | Mode     | 2.000000  | 0.150519   | 6.6437E+00        | 4.1743E+01       | 1.7425E+03           |
| MODAL                                | Mode     | 3.000000  | 0.135794   | 7.3641E+00        | 4.6270E+01       | 2.1409E+03           |
| MODAL                                | Mode     | 4.000000  | 0.104803   | 9.5417E+00        | 5.9953E+01       | 3.5943E+03           |
| MODAL                                | Mode     | 5.000000  | 0.071516   | 1.3983E+01        | 8.7857E+01       | 7.7189E+03           |
| MODAL                                | Mode     | 6.000000  | 0.048428   | 2.0649E+01        | 1.2974E+02       | 1.6833E+04           |
| MODAL                                | Mode     | 7.000000  | 0.038827   | 2.5755E+01        | 1.6182E+02       | 2.6187E+04           |
| MODAL                                | Mode     | 8.000000  | 0.038827   | 2.5755E+01        | 1.6182E+02       | 2.6187E+04           |
| MODAL                                | Mode     | 9.000000  | 0.037581   | 2.6609E+01        | 1.6719E+02       | 2.7953E+04           |
| MODAL                                | Mode     | 10.000000 | 0.036072   | 2.7722E+01        | 1.7418E+02       | 3.0340E+04           |
| MODAL                                | Mode     | 11.000000 | 0.034774   | 2.8757E+01        | 1.8069E+02       | 3.2648E+04           |
| MODAL                                | Mode     | 12.000000 | 0.033261   | 3.0065E+01        | 1.8891E+02       | 3.5685E+04           |

# SAP2000

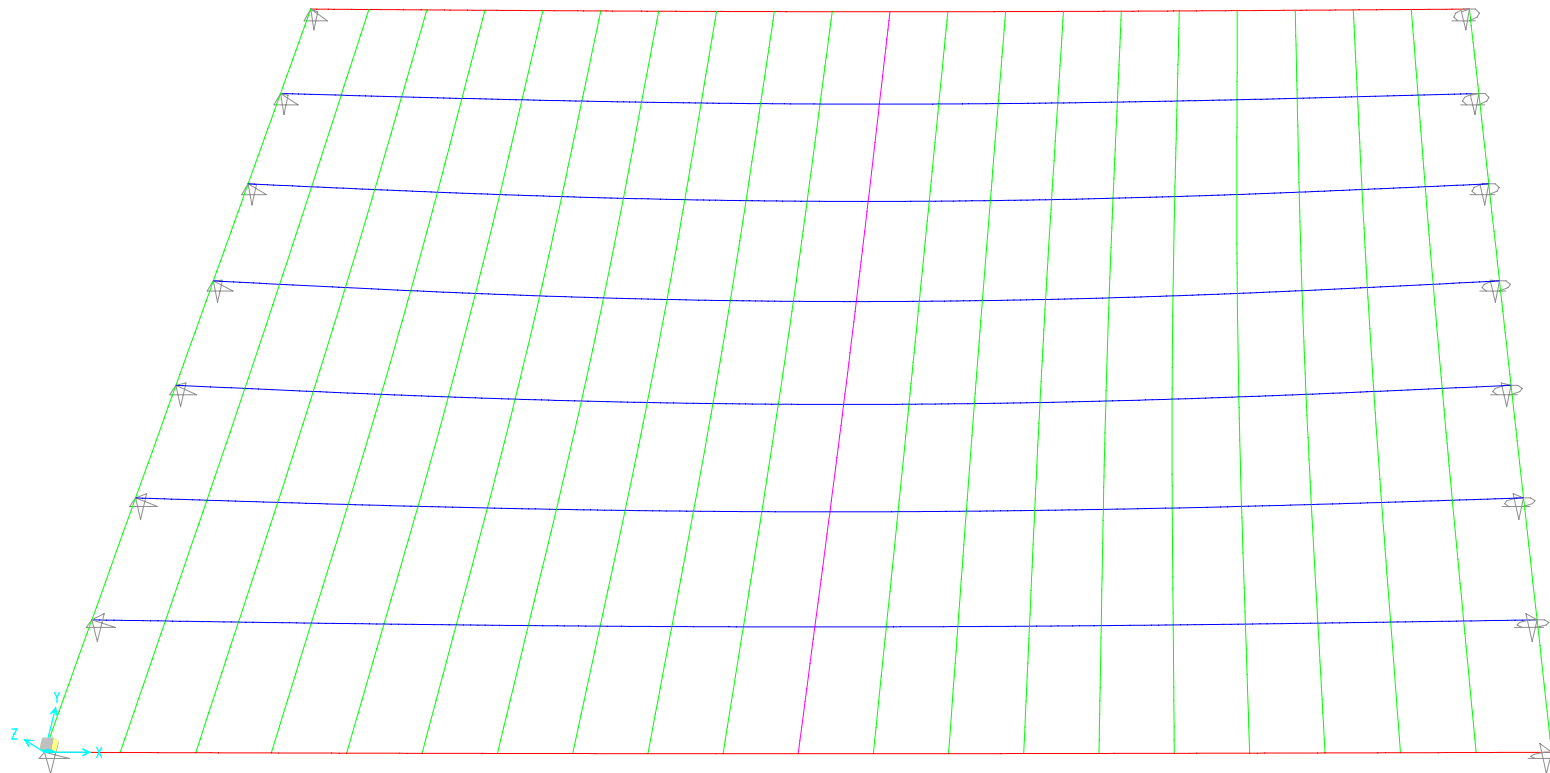


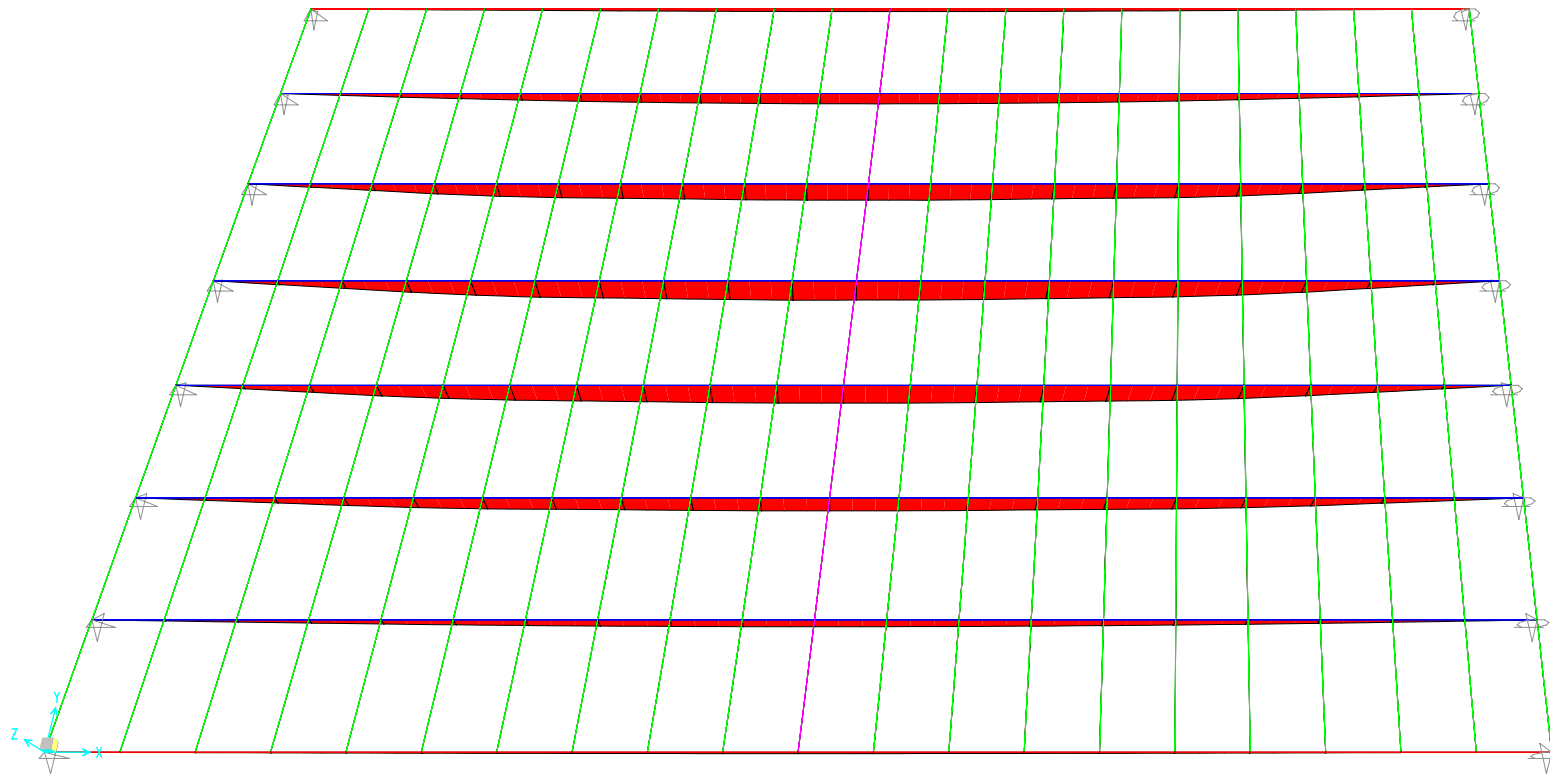
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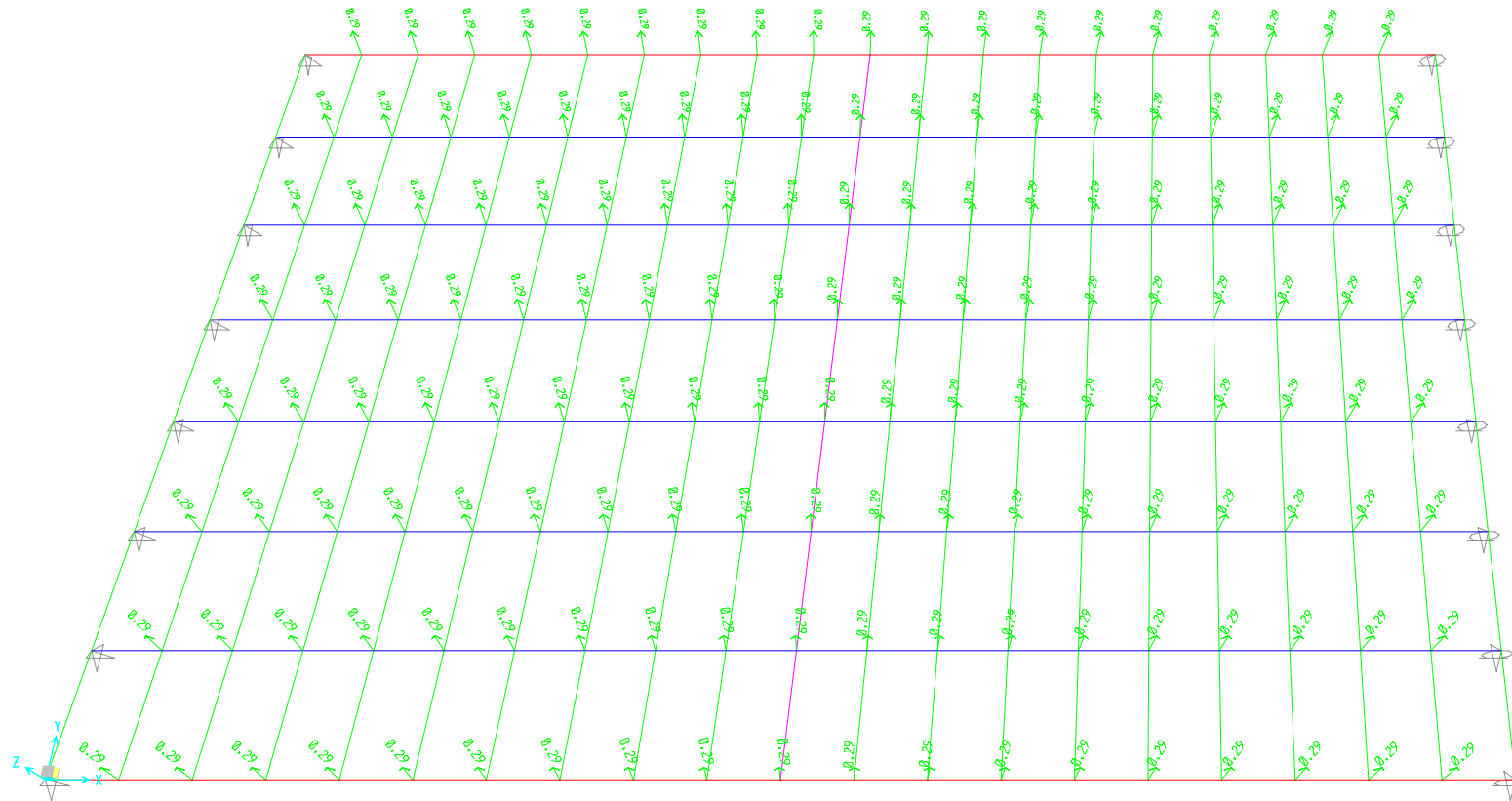


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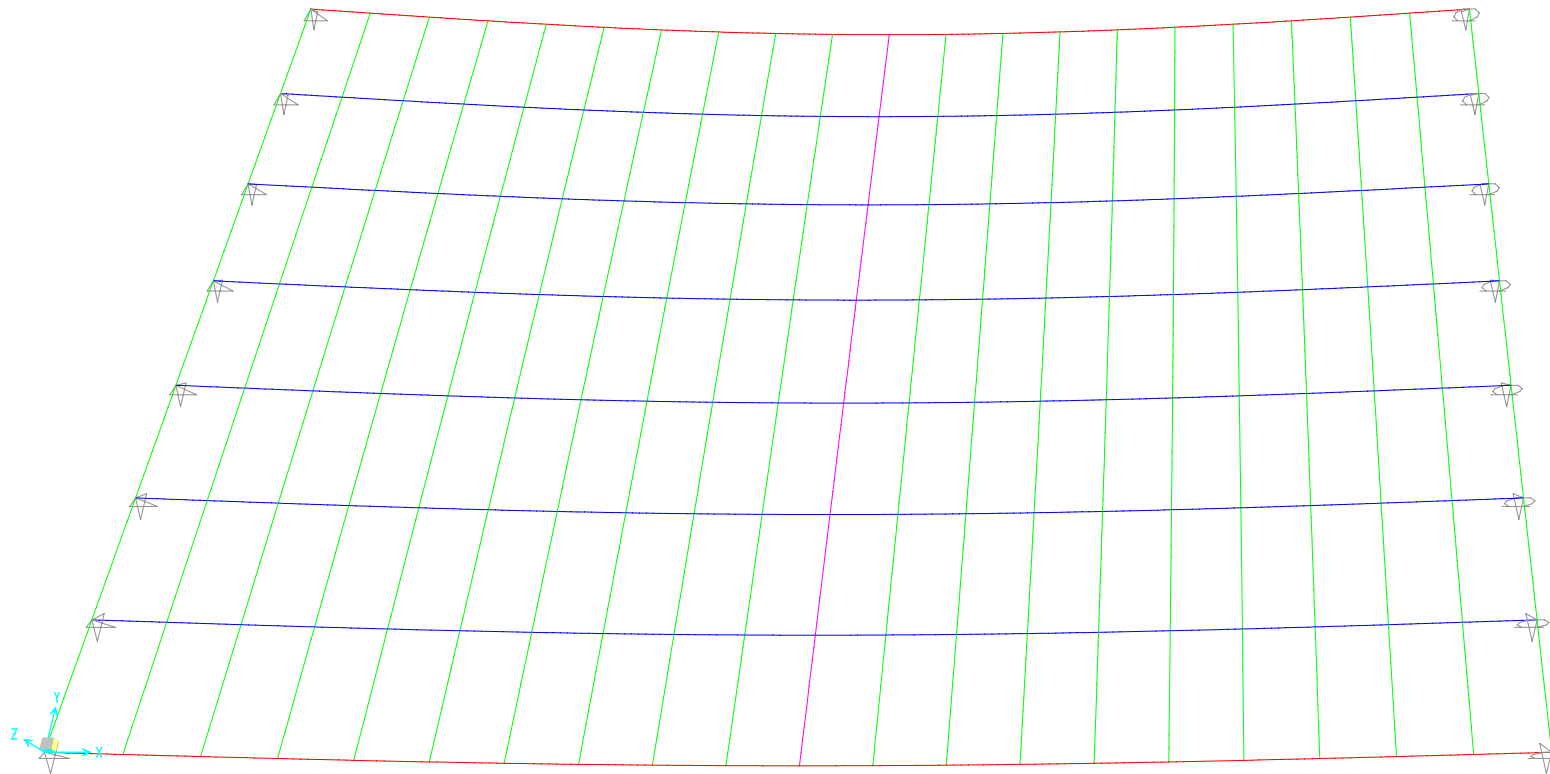
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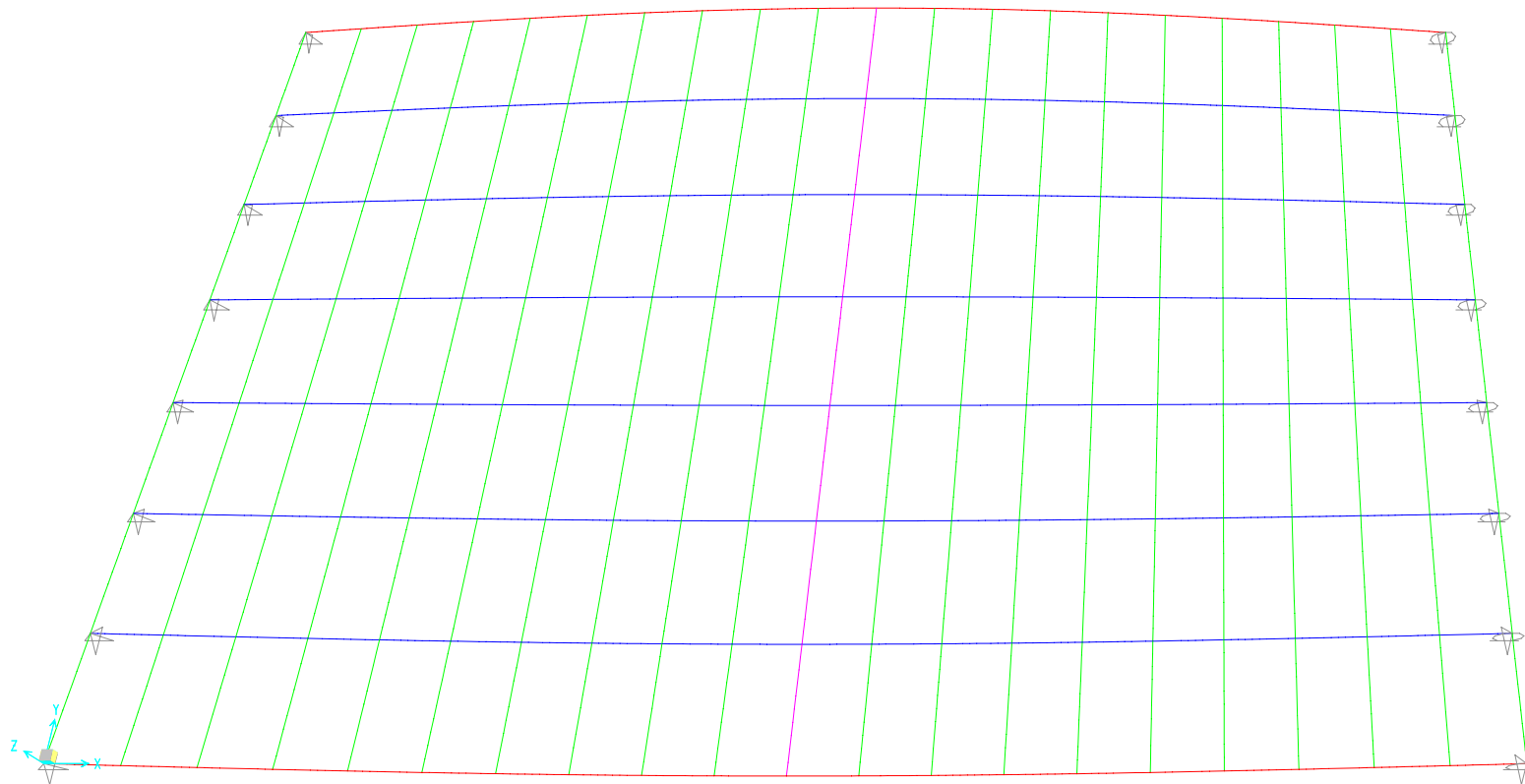




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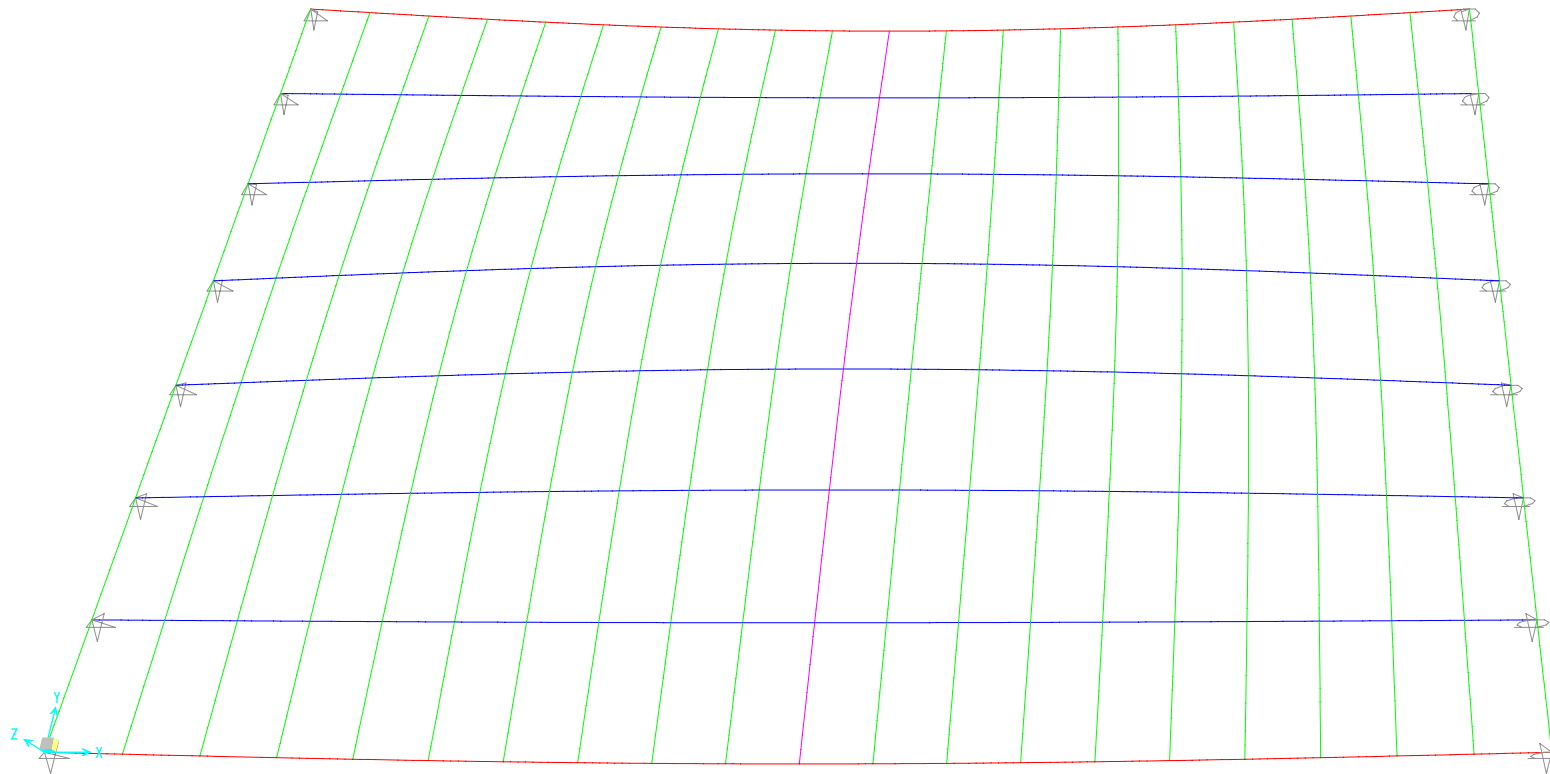


Table: Case - Modal 1 - General

| Table: Case - Modal 1 - General |          |                 |                 |                       |                        |            |           |
|---------------------------------|----------|-----------------|-----------------|-----------------------|------------------------|------------|-----------|
| Case                            | ModeType | MaxNumMo<br>des | MinNumMo<br>des | EigenShift<br>Cyc/sec | EigenCutoff<br>Cyc/sec | EigenTol   | AutoShift |
| MODAL                           | Eigen    | 12              | 1               | 0.0000E+00            | 0.0000E+00             | 1.0000E-09 | Yes       |

Table: Case - Static 1 - Load Assignments

| Table: Case - Static 1 - Load Assignments |              |          |          |
|-------------------------------------------|--------------|----------|----------|
| Case                                      | LoadType     | LoadName | LoadSF   |
| DEAD                                      | Load pattern | DEAD     | 1.000000 |
| 4C26TB                                    | Load pattern | 4C26TB   | 1.000000 |

Table: Connectivity - Frame, Part 1 of 2

| Table: Connectivity - Frame, Part 1 of 2 |        |        |          |             |                |                |                |
|------------------------------------------|--------|--------|----------|-------------|----------------|----------------|----------------|
| Frame                                    | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
| 1                                        | 1      | 2      | No       | 1.00977     | 0.50488        | 0.00000        | 0.00000        |
| 2                                        | 2      | 3      | No       | 1.00977     | 1.51465        | 0.00000        | 0.00000        |
| 3                                        | 3      | 4      | No       | 1.00977     | 2.52442        | 0.00000        | 0.00000        |
| 4                                        | 4      | 5      | No       | 1.00977     | 3.53419        | 0.00000        | 0.00000        |
| 5                                        | 5      | 6      | No       | 1.00977     | 4.54396        | 0.00000        | 0.00000        |
| 6                                        | 6      | 7      | No       | 1.00977     | 5.55373        | 0.00000        | 0.00000        |
| 7                                        | 7      | 8      | No       | 1.00977     | 6.56350        | 0.00000        | 0.00000        |
| 8                                        | 8      | 9      | No       | 1.00977     | 7.57327        | 0.00000        | 0.00000        |
| 9                                        | 9      | 10     | No       | 1.00977     | 8.58304        | 0.00000        | 0.00000        |
| 10                                       | 10     | 11     | No       | 1.00977     | 9.59281        | 0.00000        | 0.00000        |
| 11                                       | 11     | 12     | No       | 1.00977     | 10.60258       | 0.00000        | 0.00000        |
| 12                                       | 12     | 13     | No       | 1.00977     | 11.61235       | 0.00000        | 0.00000        |
| 13                                       | 13     | 14     | No       | 1.00977     | 12.62212       | 0.00000        | 0.00000        |
| 14                                       | 14     | 15     | No       | 1.00977     | 13.63189       | 0.00000        | 0.00000        |
| 15                                       | 15     | 16     | No       | 1.00977     | 14.64166       | 0.00000        | 0.00000        |
| 16                                       | 16     | 17     | No       | 1.00977     | 15.65143       | 0.00000        | 0.00000        |
| 17                                       | 17     | 18     | No       | 1.00977     | 16.66120       | 0.00000        | 0.00000        |
| 18                                       | 18     | 19     | No       | 1.00977     | 17.67096       | 0.00000        | 0.00000        |
| 19                                       | 19     | 20     | No       | 1.00977     | 18.68073       | 0.00000        | 0.00000        |
| 20                                       | 20     | 21     | No       | 1.00977     | 19.69050       | 0.00000        | 0.00000        |
| 21                                       | 22     | 23     | No       | 1.00977     | 0.70410        | 1.85716        | 3.319E-17      |
| 22                                       | 23     | 24     | No       | 1.00977     | 1.71387        | 1.85716        | 3.319E-17      |
| 23                                       | 24     | 25     | No       | 1.00977     | 2.72364        | 1.85716        | 3.319E-17      |
| 24                                       | 25     | 26     | No       | 1.00977     | 3.73341        | 1.85716        | 3.319E-17      |
| 25                                       | 26     | 27     | No       | 1.00977     | 4.74318        | 1.85716        | 3.319E-17      |
| 26                                       | 27     | 28     | No       | 1.00977     | 5.75295        | 1.85716        | 3.319E-17      |
| 27                                       | 28     | 29     | No       | 1.00977     | 6.76272        | 1.85716        | 3.319E-17      |
| 28                                       | 29     | 30     | No       | 1.00977     | 7.77249        | 1.85716        | 3.319E-17      |
| 29                                       | 30     | 31     | No       | 1.00977     | 8.78225        | 1.85716        | 3.319E-17      |
| 30                                       | 31     | 32     | No       | 1.00977     | 9.79202        | 1.85716        | 3.319E-17      |
| 31                                       | 32     | 33     | No       | 1.00977     | 10.80179       | 1.85716        | 3.319E-17      |
| 32                                       | 33     | 34     | No       | 1.00977     | 11.81156       | 1.85716        | 3.319E-17      |
| 33                                       | 34     | 35     | No       | 1.00977     | 12.82133       | 1.85716        | 3.319E-17      |
| 34                                       | 35     | 36     | No       | 1.00977     | 13.83110       | 1.85716        | 3.319E-17      |
| 35                                       | 36     | 37     | No       | 1.00977     | 14.84087       | 1.85716        | 3.319E-17      |
| 36                                       | 37     | 38     | No       | 1.00977     | 15.85064       | 1.85716        | 3.319E-17      |
| 37                                       | 38     | 39     | No       | 1.00977     | 16.86041       | 1.85716        | 3.319E-17      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 38    | 39     | 40     | No       | 1.00977     | 17.87018       | 1.85716        | 3.319E-17      |
| 39    | 40     | 41     | No       | 1.00977     | 18.87995       | 1.85716        | 3.319E-17      |
| 40    | 41     | 42     | No       | 1.00977     | 19.88972       | 1.85716        | 3.319E-17      |
| 41    | 43     | 44     | No       | 1.00977     | 0.90331        | 3.71432        | 6.638E-17      |
| 42    | 44     | 45     | No       | 1.00977     | 1.91308        | 3.71432        | 6.638E-17      |
| 43    | 45     | 46     | No       | 1.00977     | 2.92285        | 3.71432        | 6.638E-17      |
| 44    | 46     | 47     | No       | 1.00977     | 3.93262        | 3.71432        | 6.638E-17      |
| 45    | 47     | 48     | No       | 1.00977     | 4.94239        | 3.71432        | 6.638E-17      |
| 46    | 48     | 49     | No       | 1.00977     | 5.95216        | 3.71432        | 6.638E-17      |
| 47    | 49     | 50     | No       | 1.00977     | 6.96193        | 3.71432        | 6.638E-17      |
| 48    | 50     | 51     | No       | 1.00977     | 7.97170        | 3.71432        | 6.638E-17      |
| 49    | 51     | 52     | No       | 1.00977     | 8.98147        | 3.71432        | 6.638E-17      |
| 50    | 52     | 53     | No       | 1.00977     | 9.99124        | 3.71432        | 6.638E-17      |
| 51    | 53     | 54     | No       | 1.00977     | 11.00101       | 3.71432        | 6.638E-17      |
| 52    | 54     | 55     | No       | 1.00977     | 12.01078       | 3.71432        | 6.638E-17      |
| 53    | 55     | 56     | No       | 1.00977     | 13.02055       | 3.71432        | 6.638E-17      |
| 54    | 56     | 57     | No       | 1.00977     | 14.03032       | 3.71432        | 6.638E-17      |
| 55    | 57     | 58     | No       | 1.00977     | 15.04009       | 3.71432        | 6.638E-17      |
| 56    | 58     | 59     | No       | 1.00977     | 16.04986       | 3.71432        | 6.638E-17      |
| 57    | 59     | 60     | No       | 1.00977     | 17.05962       | 3.71432        | 6.638E-17      |
| 58    | 60     | 61     | No       | 1.00977     | 18.06939       | 3.71432        | 6.638E-17      |
| 59    | 61     | 62     | No       | 1.00977     | 19.07916       | 3.71432        | 6.638E-17      |
| 60    | 62     | 63     | No       | 1.00977     | 20.08893       | 3.71432        | 6.638E-17      |
| 61    | 64     | 65     | No       | 1.00977     | 1.10253        | 5.57148        | 9.957E-17      |
| 62    | 65     | 66     | No       | 1.00977     | 2.11230        | 5.57148        | 9.957E-17      |
| 63    | 66     | 67     | No       | 1.00977     | 3.12207        | 5.57148        | 9.957E-17      |
| 64    | 67     | 68     | No       | 1.00977     | 4.13184        | 5.57148        | 9.957E-17      |
| 65    | 68     | 69     | No       | 1.00977     | 5.14161        | 5.57148        | 9.957E-17      |
| 66    | 69     | 70     | No       | 1.00977     | 6.15138        | 5.57148        | 9.957E-17      |
| 67    | 70     | 71     | No       | 1.00977     | 7.16114        | 5.57148        | 9.957E-17      |
| 68    | 71     | 72     | No       | 1.00977     | 8.17091        | 5.57148        | 9.957E-17      |
| 69    | 72     | 73     | No       | 1.00977     | 9.18068        | 5.57148        | 9.957E-17      |
| 70    | 73     | 74     | No       | 1.00977     | 10.19045       | 5.57148        | 9.957E-17      |
| 71    | 74     | 75     | No       | 1.00977     | 11.20022       | 5.57148        | 9.957E-17      |
| 72    | 75     | 76     | No       | 1.00977     | 12.20999       | 5.57148        | 9.957E-17      |
| 73    | 76     | 77     | No       | 1.00977     | 13.21976       | 5.57148        | 9.957E-17      |
| 74    | 77     | 78     | No       | 1.00977     | 14.22953       | 5.57148        | 9.957E-17      |
| 75    | 78     | 79     | No       | 1.00977     | 15.23930       | 5.57148        | 9.957E-17      |
| 76    | 79     | 80     | No       | 1.00977     | 16.24907       | 5.57148        | 9.957E-17      |
| 77    | 80     | 81     | No       | 1.00977     | 17.25884       | 5.57148        | 9.957E-17      |
| 78    | 81     | 82     | No       | 1.00977     | 18.26861       | 5.57148        | 9.957E-17      |
| 79    | 82     | 83     | No       | 1.00977     | 19.27838       | 5.57148        | 9.957E-17      |
| 80    | 83     | 84     | No       | 1.00977     | 20.28815       | 5.57148        | 9.957E-17      |
| 81    | 85     | 86     | No       | 1.00977     | 1.30174        | 7.42864        | 1.328E-16      |
| 82    | 86     | 87     | No       | 1.00977     | 2.31151        | 7.42864        | 1.328E-16      |
| 83    | 87     | 88     | No       | 1.00977     | 3.32128        | 7.42864        | 1.328E-16      |
| 84    | 88     | 89     | No       | 1.00977     | 4.33105        | 7.42864        | 1.328E-16      |
| 85    | 89     | 90     | No       | 1.00977     | 5.34082        | 7.42864        | 1.328E-16      |
| 86    | 90     | 91     | No       | 1.00977     | 6.35059        | 7.42864        | 1.328E-16      |
| 87    | 91     | 92     | No       | 1.00977     | 7.36036        | 7.42864        | 1.328E-16      |
| 88    | 92     | 93     | No       | 1.00977     | 8.37013        | 7.42864        | 1.328E-16      |
| 89    | 93     | 94     | No       | 1.00977     | 9.37990        | 7.42864        | 1.328E-16      |
| 90    | 94     | 95     | No       | 1.00977     | 10.38967       | 7.42864        | 1.328E-16      |
| 91    | 95     | 96     | No       | 1.00977     | 11.39944       | 7.42864        | 1.328E-16      |
| 92    | 96     | 97     | No       | 1.00977     | 12.40921       | 7.42864        | 1.328E-16      |
| 93    | 97     | 98     | No       | 1.00977     | 13.41898       | 7.42864        | 1.328E-16      |
| 94    | 98     | 99     | No       | 1.00977     | 14.42875       | 7.42864        | 1.328E-16      |
| 95    | 99     | 100    | No       | 1.00977     | 15.43851       | 7.42864        | 1.328E-16      |
| 96    | 100    | 101    | No       | 1.00977     | 16.44828       | 7.42864        | 1.328E-16      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 97    | 101    | 102    | No       | 1.00977     | 17.45805       | 7.42864        | 1.328E-16      |
| 98    | 102    | 103    | No       | 1.00977     | 18.46782       | 7.42864        | 1.328E-16      |
| 99    | 103    | 104    | No       | 1.00977     | 19.47759       | 7.42864        | 1.328E-16      |
| 100   | 104    | 105    | No       | 1.00977     | 20.48736       | 7.42864        | 1.328E-16      |
| 101   | 106    | 107    | No       | 1.00977     | 1.50096        | 9.28580        | 1.659E-16      |
| 102   | 107    | 108    | No       | 1.00977     | 2.51073        | 9.28580        | 1.659E-16      |
| 103   | 108    | 109    | No       | 1.00977     | 3.52050        | 9.28580        | 1.659E-16      |
| 104   | 109    | 110    | No       | 1.00977     | 4.53027        | 9.28580        | 1.659E-16      |
| 105   | 110    | 111    | No       | 1.00977     | 5.54003        | 9.28580        | 1.659E-16      |
| 106   | 111    | 112    | No       | 1.00977     | 6.54980        | 9.28580        | 1.659E-16      |
| 107   | 112    | 113    | No       | 1.00977     | 7.55957        | 9.28580        | 1.659E-16      |
| 108   | 113    | 114    | No       | 1.00977     | 8.56934        | 9.28580        | 1.659E-16      |
| 109   | 114    | 115    | No       | 1.00977     | 9.57911        | 9.28580        | 1.659E-16      |
| 110   | 115    | 116    | No       | 1.00977     | 10.58888       | 9.28580        | 1.659E-16      |
| 111   | 116    | 117    | No       | 1.00977     | 11.59865       | 9.28580        | 1.659E-16      |
| 112   | 117    | 118    | No       | 1.00977     | 12.60842       | 9.28580        | 1.659E-16      |
| 113   | 118    | 119    | No       | 1.00977     | 13.61819       | 9.28580        | 1.659E-16      |
| 114   | 119    | 120    | No       | 1.00977     | 14.62796       | 9.28580        | 1.659E-16      |
| 115   | 120    | 121    | No       | 1.00977     | 15.63773       | 9.28580        | 1.659E-16      |
| 116   | 121    | 122    | No       | 1.00977     | 16.64750       | 9.28580        | 1.659E-16      |
| 117   | 122    | 123    | No       | 1.00977     | 17.65727       | 9.28580        | 1.659E-16      |
| 118   | 123    | 124    | No       | 1.00977     | 18.66704       | 9.28580        | 1.659E-16      |
| 119   | 124    | 125    | No       | 1.00977     | 19.67681       | 9.28580        | 1.659E-16      |
| 120   | 125    | 126    | No       | 1.00977     | 20.68658       | 9.28580        | 1.659E-16      |
| 121   | 127    | 128    | No       | 1.00977     | 1.70017        | 11.14296       | -3.551E-19     |
| 122   | 128    | 129    | No       | 1.00977     | 2.70994        | 11.14296       | -3.551E-19     |
| 123   | 129    | 130    | No       | 1.00977     | 3.71971        | 11.14296       | -3.551E-19     |
| 124   | 130    | 131    | No       | 1.00977     | 4.72948        | 11.14296       | -3.551E-19     |
| 125   | 131    | 132    | No       | 1.00977     | 5.73925        | 11.14296       | -3.551E-19     |
| 126   | 132    | 133    | No       | 1.00977     | 6.74902        | 11.14296       | -3.551E-19     |
| 127   | 133    | 134    | No       | 1.00977     | 7.75879        | 11.14296       | -3.551E-19     |
| 128   | 134    | 135    | No       | 1.00977     | 8.76856        | 11.14296       | -3.551E-19     |
| 129   | 135    | 136    | No       | 1.00977     | 9.77833        | 11.14296       | -3.551E-19     |
| 130   | 136    | 137    | No       | 1.00977     | 10.78810       | 11.14296       | -3.551E-19     |
| 131   | 137    | 138    | No       | 1.00977     | 11.79787       | 11.14296       | -3.551E-19     |
| 132   | 138    | 139    | No       | 1.00977     | 12.80764       | 11.14296       | -3.551E-19     |
| 133   | 139    | 140    | No       | 1.00977     | 13.81740       | 11.14296       | -3.551E-19     |
| 134   | 140    | 141    | No       | 1.00977     | 14.82717       | 11.14296       | -3.551E-19     |
| 135   | 141    | 142    | No       | 1.00977     | 15.83694       | 11.14296       | -3.551E-19     |
| 136   | 142    | 143    | No       | 1.00977     | 16.84671       | 11.14296       | -3.551E-19     |
| 137   | 143    | 144    | No       | 1.00977     | 17.85648       | 11.14296       | -3.551E-19     |
| 138   | 144    | 145    | No       | 1.00977     | 18.86625       | 11.14296       | -3.551E-19     |
| 139   | 145    | 146    | No       | 1.00977     | 19.87602       | 11.14296       | -3.551E-19     |
| 140   | 146    | 147    | No       | 1.00977     | 20.88579       | 11.14296       | -3.551E-19     |
| 141   | 148    | 149    | No       | 1.00977     | 1.89939        | 13.00012       | 2.323E-16      |
| 142   | 149    | 150    | No       | 1.00977     | 2.90916        | 13.00012       | 2.323E-16      |
| 143   | 150    | 151    | No       | 1.00977     | 3.91892        | 13.00012       | 2.323E-16      |
| 144   | 151    | 152    | No       | 1.00977     | 4.92869        | 13.00012       | 2.323E-16      |
| 145   | 152    | 153    | No       | 1.00977     | 5.93846        | 13.00012       | 2.323E-16      |
| 146   | 153    | 154    | No       | 1.00977     | 6.94823        | 13.00012       | 2.323E-16      |
| 147   | 154    | 155    | No       | 1.00977     | 7.95800        | 13.00012       | 2.323E-16      |
| 148   | 155    | 156    | No       | 1.00977     | 8.96777        | 13.00012       | 2.323E-16      |
| 149   | 156    | 157    | No       | 1.00977     | 9.97754        | 13.00012       | 2.323E-16      |
| 150   | 157    | 158    | No       | 1.00977     | 10.98731       | 13.00012       | 2.323E-16      |
| 151   | 158    | 159    | No       | 1.00977     | 11.99708       | 13.00012       | 2.323E-16      |
| 152   | 159    | 160    | No       | 1.00977     | 13.00685       | 13.00012       | 2.323E-16      |
| 153   | 160    | 161    | No       | 1.00977     | 14.01662       | 13.00012       | 2.323E-16      |
| 154   | 161    | 162    | No       | 1.00977     | 15.02639       | 13.00012       | 2.323E-16      |
| 155   | 162    | 163    | No       | 1.00977     | 16.03616       | 13.00012       | 2.323E-16      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 156   | 163    | 164    | No       | 1.00977     | 17.04593       | 13.00012       | 2.323E-16      |
| 157   | 164    | 165    | No       | 1.00977     | 18.05570       | 13.00012       | 2.323E-16      |
| 158   | 165    | 166    | No       | 1.00977     | 19.06547       | 13.00012       | 2.323E-16      |
| 159   | 166    | 167    | No       | 1.00977     | 20.07524       | 13.00012       | 2.323E-16      |
| 160   | 167    | 168    | No       | 1.00977     | 21.08501       | 13.00012       | 2.323E-16      |
| 161   | 1      | 22     | No       | 1.86781     | 0.09961        | 0.92858        | 1.659E-17      |
| 162   | 2      | 43     | No       | 1.86781     | 0.29882        | 2.78574        | 4.978E-17      |
| 163   | 43     | 64     | No       | 1.86781     | 0.49804        | 4.64290        | 8.297E-17      |
| 164   | 64     | 85     | No       | 1.86781     | 0.69725        | 6.50006        | 1.162E-16      |
| 165   | 85     | 106    | No       | 1.86781     | 0.89647        | 8.35722        | 1.493E-16      |
| 166   | 106    | 127    | No       | 1.86781     | 1.09568        | 10.21438       | 8.279E-17      |
| 167   | 127    | 148    | No       | 1.86781     | 1.29489        | 12.07154       | 1.160E-16      |
| 168   | 2      | 23     | No       | 1.86781     | 1.10938        | 0.92858        | 1.659E-17      |
| 169   | 23     | 44     | No       | 1.86781     | 1.30859        | 2.78574        | 4.978E-17      |
| 170   | 44     | 65     | No       | 1.86781     | 1.50781        | 4.64290        | 8.297E-17      |
| 171   | 65     | 86     | No       | 1.86781     | 1.70702        | 6.50006        | 1.162E-16      |
| 172   | 86     | 107    | No       | 1.86781     | 1.90623        | 8.35722        | 1.493E-16      |
| 173   | 107    | 128    | No       | 1.86781     | 2.10545        | 10.21438       | 8.279E-17      |
| 174   | 128    | 149    | No       | 1.86781     | 2.30466        | 12.07154       | 1.160E-16      |
| 175   | 3      | 24     | No       | 1.86781     | 2.11915        | 0.92858        | 1.659E-17      |
| 176   | 24     | 45     | No       | 1.86781     | 2.31836        | 2.78574        | 4.978E-17      |
| 177   | 45     | 66     | No       | 1.86781     | 2.51758        | 4.64290        | 8.297E-17      |
| 178   | 66     | 87     | No       | 1.86781     | 2.71679        | 6.50006        | 1.162E-16      |
| 179   | 87     | 108    | No       | 1.86781     | 2.91600        | 8.35722        | 1.493E-16      |
| 180   | 108    | 129    | No       | 1.86781     | 3.11522        | 10.21438       | 8.279E-17      |
| 181   | 129    | 150    | No       | 1.86781     | 3.31443        | 12.07154       | 1.160E-16      |
| 182   | 4      | 25     | No       | 1.86781     | 3.12892        | 0.92858        | 1.659E-17      |
| 183   | 25     | 46     | No       | 1.86781     | 3.32813        | 2.78574        | 4.978E-17      |
| 184   | 46     | 67     | No       | 1.86781     | 3.52734        | 4.64290        | 8.297E-17      |
| 185   | 67     | 88     | No       | 1.86781     | 3.72656        | 6.50006        | 1.162E-16      |
| 186   | 88     | 109    | No       | 1.86781     | 3.92577        | 8.35722        | 1.493E-16      |
| 187   | 109    | 130    | No       | 1.86781     | 4.12499        | 10.21438       | 8.279E-17      |
| 188   | 130    | 151    | No       | 1.86781     | 4.32420        | 12.07154       | 1.160E-16      |
| 189   | 5      | 26     | No       | 1.86781     | 4.13868        | 0.92858        | 1.659E-17      |
| 190   | 26     | 47     | No       | 1.86781     | 4.33790        | 2.78574        | 4.978E-17      |
| 191   | 47     | 68     | No       | 1.86781     | 4.53711        | 4.64290        | 8.297E-17      |
| 192   | 68     | 89     | No       | 1.86781     | 4.73633        | 6.50006        | 1.162E-16      |
| 193   | 89     | 110    | No       | 1.86781     | 4.93554        | 8.35722        | 1.493E-16      |
| 194   | 110    | 131    | No       | 1.86781     | 5.13476        | 10.21438       | 8.279E-17      |
| 195   | 131    | 152    | No       | 1.86781     | 5.33397        | 12.07154       | 1.160E-16      |
| 196   | 6      | 27     | No       | 1.86781     | 5.14845        | 0.92858        | 1.659E-17      |
| 197   | 27     | 48     | No       | 1.86781     | 5.34767        | 2.78574        | 4.978E-17      |
| 198   | 48     | 69     | No       | 1.86781     | 5.54688        | 4.64290        | 8.297E-17      |
| 199   | 69     | 90     | No       | 1.86781     | 5.74610        | 6.50006        | 1.162E-16      |
| 200   | 90     | 111    | No       | 1.86781     | 5.94531        | 8.35722        | 1.493E-16      |
| 201   | 111    | 132    | No       | 1.86781     | 6.14453        | 10.21438       | 8.279E-17      |
| 202   | 132    | 153    | No       | 1.86781     | 6.34374        | 12.07154       | 1.160E-16      |
| 203   | 7      | 28     | No       | 1.86781     | 6.15822        | 0.92858        | 1.659E-17      |
| 204   | 28     | 49     | No       | 1.86781     | 6.35744        | 2.78574        | 4.978E-17      |
| 205   | 49     | 70     | No       | 1.86781     | 6.55665        | 4.64290        | 8.297E-17      |
| 206   | 70     | 91     | No       | 1.86781     | 6.75587        | 6.50006        | 1.162E-16      |
| 207   | 91     | 112    | No       | 1.86781     | 6.95508        | 8.35722        | 1.493E-16      |
| 208   | 112    | 133    | No       | 1.86781     | 7.15430        | 10.21438       | 8.279E-17      |
| 209   | 133    | 154    | No       | 1.86781     | 7.35351        | 12.07154       | 1.160E-16      |
| 210   | 8      | 29     | No       | 1.86781     | 7.16799        | 0.92858        | 1.659E-17      |
| 211   | 29     | 50     | No       | 1.86781     | 7.36721        | 2.78574        | 4.978E-17      |
| 212   | 50     | 71     | No       | 1.86781     | 7.56642        | 4.64290        | 8.297E-17      |
| 213   | 71     | 92     | No       | 1.86781     | 7.76564        | 6.50006        | 1.162E-16      |
| 214   | 92     | 113    | No       | 1.86781     | 7.96485        | 8.35722        | 1.493E-16      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 215   | 113    | 134    | No       | 1.86781     | 8.16407        | 10.21438       | 8.279E-17      |
| 216   | 134    | 155    | No       | 1.86781     | 8.36328        | 12.07154       | 1.160E-16      |
| 217   | 9      | 30     | No       | 1.86781     | 8.17776        | 0.92858        | 1.659E-17      |
| 218   | 30     | 51     | No       | 1.86781     | 8.37698        | 2.78574        | 4.978E-17      |
| 219   | 51     | 72     | No       | 1.86781     | 8.57619        | 4.64290        | 8.297E-17      |
| 220   | 72     | 93     | No       | 1.86781     | 8.77541        | 6.50006        | 1.162E-16      |
| 221   | 93     | 114    | No       | 1.86781     | 8.97462        | 8.35722        | 1.493E-16      |
| 222   | 114    | 135    | No       | 1.86781     | 9.17383        | 10.21438       | 8.279E-17      |
| 223   | 135    | 156    | No       | 1.86781     | 9.37305        | 12.07154       | 1.160E-16      |
| 224   | 10     | 31     | No       | 1.86781     | 9.18753        | 0.92858        | 1.659E-17      |
| 225   | 31     | 52     | No       | 1.86781     | 9.38675        | 2.78574        | 4.978E-17      |
| 226   | 52     | 73     | No       | 1.86781     | 9.58596        | 4.64290        | 8.297E-17      |
| 227   | 73     | 94     | No       | 1.86781     | 9.78518        | 6.50006        | 1.162E-16      |
| 228   | 94     | 115    | No       | 1.86781     | 9.98439        | 8.35722        | 1.493E-16      |
| 229   | 115    | 136    | No       | 1.86781     | 10.18360       | 10.21438       | 8.279E-17      |
| 230   | 136    | 157    | No       | 1.86781     | 10.38282       | 12.07154       | 1.160E-16      |
| 231   | 11     | 32     | No       | 1.86781     | 10.19730       | 0.92858        | 1.659E-17      |
| 232   | 32     | 53     | No       | 1.86781     | 10.39652       | 2.78574        | 4.978E-17      |
| 233   | 53     | 74     | No       | 1.86781     | 10.59573       | 4.64290        | 8.297E-17      |
| 234   | 74     | 95     | No       | 1.86781     | 10.79494       | 6.50006        | 1.162E-16      |
| 235   | 95     | 116    | No       | 1.86781     | 10.99416       | 8.35722        | 1.493E-16      |
| 236   | 116    | 137    | No       | 1.86781     | 11.19337       | 10.21438       | 8.279E-17      |
| 237   | 137    | 158    | No       | 1.86781     | 11.39259       | 12.07154       | 1.160E-16      |
| 238   | 12     | 33     | No       | 1.86781     | 11.20707       | 0.92858        | 1.659E-17      |
| 239   | 33     | 54     | No       | 1.86781     | 11.40629       | 2.78574        | 4.978E-17      |
| 240   | 54     | 75     | No       | 1.86781     | 11.60550       | 4.64290        | 8.297E-17      |
| 241   | 75     | 96     | No       | 1.86781     | 11.80471       | 6.50006        | 1.162E-16      |
| 242   | 96     | 117    | No       | 1.86781     | 12.00393       | 8.35722        | 1.493E-16      |
| 243   | 117    | 138    | No       | 1.86781     | 12.20314       | 10.21438       | 8.279E-17      |
| 244   | 138    | 159    | No       | 1.86781     | 12.40236       | 12.07154       | 1.160E-16      |
| 245   | 13     | 34     | No       | 1.86781     | 12.21684       | 0.92858        | 1.659E-17      |
| 246   | 34     | 55     | No       | 1.86781     | 12.41605       | 2.78574        | 4.978E-17      |
| 247   | 55     | 76     | No       | 1.86781     | 12.61527       | 4.64290        | 8.297E-17      |
| 248   | 76     | 97     | No       | 1.86781     | 12.81448       | 6.50006        | 1.162E-16      |
| 249   | 97     | 118    | No       | 1.86781     | 13.01370       | 8.35722        | 1.493E-16      |
| 250   | 118    | 139    | No       | 1.86781     | 13.21291       | 10.21438       | 8.279E-17      |
| 251   | 139    | 160    | No       | 1.86781     | 13.41213       | 12.07154       | 1.160E-16      |
| 252   | 14     | 35     | No       | 1.86781     | 13.22661       | 0.92858        | 1.659E-17      |
| 253   | 35     | 56     | No       | 1.86781     | 13.42582       | 2.78574        | 4.978E-17      |
| 254   | 56     | 77     | No       | 1.86781     | 13.62504       | 4.64290        | 8.297E-17      |
| 255   | 77     | 98     | No       | 1.86781     | 13.82425       | 6.50006        | 1.162E-16      |
| 256   | 98     | 119    | No       | 1.86781     | 14.02347       | 8.35722        | 1.493E-16      |
| 257   | 119    | 140    | No       | 1.86781     | 14.22268       | 10.21438       | 8.279E-17      |
| 258   | 140    | 161    | No       | 1.86781     | 14.42190       | 12.07154       | 1.160E-16      |
| 259   | 15     | 36     | No       | 1.86781     | 14.23638       | 0.92858        | 1.659E-17      |
| 260   | 36     | 57     | No       | 1.86781     | 14.43559       | 2.78574        | 4.978E-17      |
| 261   | 57     | 78     | No       | 1.86781     | 14.63481       | 4.64290        | 8.297E-17      |
| 262   | 78     | 99     | No       | 1.86781     | 14.83402       | 6.50006        | 1.162E-16      |
| 263   | 99     | 120    | No       | 1.86781     | 15.03324       | 8.35722        | 1.493E-16      |
| 264   | 120    | 141    | No       | 1.86781     | 15.23245       | 10.21438       | 8.279E-17      |
| 265   | 141    | 162    | No       | 1.86781     | 15.43167       | 12.07154       | 1.160E-16      |
| 266   | 16     | 37     | No       | 1.86781     | 15.24615       | 0.92858        | 1.659E-17      |
| 267   | 37     | 58     | No       | 1.86781     | 15.44536       | 2.78574        | 4.978E-17      |
| 268   | 58     | 79     | No       | 1.86781     | 15.64458       | 4.64290        | 8.297E-17      |
| 269   | 79     | 100    | No       | 1.86781     | 15.84379       | 6.50006        | 1.162E-16      |
| 270   | 100    | 121    | No       | 1.86781     | 16.04301       | 8.35722        | 1.493E-16      |
| 271   | 121    | 142    | No       | 1.86781     | 16.24222       | 10.21438       | 8.279E-17      |
| 272   | 142    | 163    | No       | 1.86781     | 16.44144       | 12.07154       | 1.160E-16      |
| 273   | 17     | 38     | No       | 1.86781     | 16.25592       | 0.92858        | 1.659E-17      |

Table: Connectivity - Frame, Part 1 of 2

| Frame | JointI | JointJ | IsCurved | Length<br>m | CentroidX<br>m | CentroidY<br>m | CentroidZ<br>m |
|-------|--------|--------|----------|-------------|----------------|----------------|----------------|
| 274   | 38     | 59     | No       | 1.86781     | 16.45513       | 2.78574        | 4.978E-17      |
| 275   | 59     | 80     | No       | 1.86781     | 16.65435       | 4.64290        | 8.297E-17      |
| 276   | 80     | 101    | No       | 1.86781     | 16.85356       | 6.50006        | 1.162E-16      |
| 277   | 101    | 122    | No       | 1.86781     | 17.05278       | 8.35722        | 1.493E-16      |
| 278   | 122    | 143    | No       | 1.86781     | 17.25199       | 10.21438       | 8.279E-17      |
| 279   | 143    | 164    | No       | 1.86781     | 17.45120       | 12.07154       | 1.160E-16      |
| 280   | 18     | 39     | No       | 1.86781     | 17.26569       | 0.92858        | 1.659E-17      |
| 281   | 39     | 60     | No       | 1.86781     | 17.46490       | 2.78574        | 4.978E-17      |
| 282   | 60     | 81     | No       | 1.86781     | 17.66412       | 4.64290        | 8.297E-17      |
| 283   | 81     | 102    | No       | 1.86781     | 17.86333       | 6.50006        | 1.162E-16      |
| 284   | 102    | 123    | No       | 1.86781     | 18.06255       | 8.35722        | 1.493E-16      |
| 285   | 123    | 144    | No       | 1.86781     | 18.26176       | 10.21438       | 8.279E-17      |
| 286   | 144    | 165    | No       | 1.86781     | 18.46097       | 12.07154       | 1.160E-16      |
| 287   | 19     | 40     | No       | 1.86781     | 18.27546       | 0.92858        | 1.659E-17      |
| 288   | 40     | 61     | No       | 1.86781     | 18.47467       | 2.78574        | 4.978E-17      |
| 289   | 61     | 82     | No       | 1.86781     | 18.67389       | 4.64290        | 8.297E-17      |
| 290   | 82     | 103    | No       | 1.86781     | 18.87310       | 6.50006        | 1.162E-16      |
| 291   | 103    | 124    | No       | 1.86781     | 19.07231       | 8.35722        | 1.493E-16      |
| 292   | 124    | 145    | No       | 1.86781     | 19.27153       | 10.21438       | 8.279E-17      |
| 293   | 145    | 166    | No       | 1.86781     | 19.47074       | 12.07154       | 1.160E-16      |
| 294   | 20     | 41     | No       | 1.86781     | 19.28523       | 0.92858        | 1.659E-17      |
| 295   | 41     | 62     | No       | 1.86781     | 19.48444       | 2.78574        | 4.978E-17      |
| 296   | 62     | 83     | No       | 1.86781     | 19.68366       | 4.64290        | 8.297E-17      |
| 297   | 83     | 104    | No       | 1.86781     | 19.88287       | 6.50006        | 1.162E-16      |
| 298   | 104    | 125    | No       | 1.86781     | 20.08208       | 8.35722        | 1.493E-16      |
| 299   | 125    | 146    | No       | 1.86781     | 20.28130       | 10.21438       | 8.279E-17      |
| 300   | 146    | 167    | No       | 1.86781     | 20.48051       | 12.07154       | 1.160E-16      |
| 301   | 21     | 42     | No       | 1.86781     | 20.29500       | 0.92858        | 1.659E-17      |
| 302   | 42     | 63     | No       | 1.86781     | 20.49421       | 2.78574        | 4.978E-17      |
| 303   | 63     | 84     | No       | 1.86781     | 20.69342       | 4.64290        | 8.297E-17      |
| 304   | 84     | 105    | No       | 1.86781     | 20.89264       | 6.50006        | 1.162E-16      |
| 305   | 105    | 126    | No       | 1.86781     | 21.09185       | 8.35722        | 1.493E-16      |
| 306   | 126    | 147    | No       | 1.86781     | 21.29107       | 10.21438       | 8.279E-17      |
| 307   | 147    | 168    | No       | 1.86781     | 21.49028       | 12.07154       | 1.160E-16      |

Table: Frame Section Assignments

| Table: Frame Section Assignments |             |            |          |            |         |  |
|----------------------------------|-------------|------------|----------|------------|---------|--|
| Frame                            | SectionType | AutoSelect | AnalSect | DesignSect | MatProp |  |
| 1                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 2                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 3                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 4                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 5                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 6                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 7                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 8                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 9                                | General     | N.A.       | LE       | N.A.       | Default |  |
| 10                               | General     | N.A.       | LE       | N.A.       | Default |  |
| 11                               | General     | N.A.       | LE       | N.A.       | Default |  |
| 12                               | General     | N.A.       | LE       | N.A.       | Default |  |
| 13                               | General     | N.A.       | LE       | N.A.       | Default |  |
| 14                               | General     | N.A.       | LE       | N.A.       | Default |  |
| 15                               | General     | N.A.       | LE       | N.A.       | Default |  |
| 16                               | General     | N.A.       | LE       | N.A.       | Default |  |





Table: Frame Section Assignments

| Frame | SectionType | AutoSelect | AnalSect | DesignSect | MatProp |
|-------|-------------|------------|----------|------------|---------|
| 253   | General     | N.A.       | T        | N.A.       | Default |
| 254   | General     | N.A.       | T        | N.A.       | Default |
| 255   | General     | N.A.       | T        | N.A.       | Default |
| 256   | General     | N.A.       | T        | N.A.       | Default |
| 257   | General     | N.A.       | T        | N.A.       | Default |
| 258   | General     | N.A.       | T        | N.A.       | Default |
| 259   | General     | N.A.       | T        | N.A.       | Default |
| 260   | General     | N.A.       | T        | N.A.       | Default |
| 261   | General     | N.A.       | T        | N.A.       | Default |
| 262   | General     | N.A.       | T        | N.A.       | Default |
| 263   | General     | N.A.       | T        | N.A.       | Default |
| 264   | General     | N.A.       | T        | N.A.       | Default |
| 265   | General     | N.A.       | T        | N.A.       | Default |
| 266   | General     | N.A.       | T        | N.A.       | Default |
| 267   | General     | N.A.       | T        | N.A.       | Default |
| 268   | General     | N.A.       | T        | N.A.       | Default |
| 269   | General     | N.A.       | T        | N.A.       | Default |
| 270   | General     | N.A.       | T        | N.A.       | Default |
| 271   | General     | N.A.       | T        | N.A.       | Default |
| 272   | General     | N.A.       | T        | N.A.       | Default |
| 273   | General     | N.A.       | T        | N.A.       | Default |
| 274   | General     | N.A.       | T        | N.A.       | Default |
| 275   | General     | N.A.       | T        | N.A.       | Default |
| 276   | General     | N.A.       | T        | N.A.       | Default |
| 277   | General     | N.A.       | T        | N.A.       | Default |
| 278   | General     | N.A.       | T        | N.A.       | Default |
| 279   | General     | N.A.       | T        | N.A.       | Default |
| 280   | General     | N.A.       | T        | N.A.       | Default |
| 281   | General     | N.A.       | T        | N.A.       | Default |
| 282   | General     | N.A.       | T        | N.A.       | Default |
| 283   | General     | N.A.       | T        | N.A.       | Default |
| 284   | General     | N.A.       | T        | N.A.       | Default |
| 285   | General     | N.A.       | T        | N.A.       | Default |
| 286   | General     | N.A.       | T        | N.A.       | Default |
| 287   | General     | N.A.       | T        | N.A.       | Default |
| 288   | General     | N.A.       | T        | N.A.       | Default |
| 289   | General     | N.A.       | T        | N.A.       | Default |
| 290   | General     | N.A.       | T        | N.A.       | Default |
| 291   | General     | N.A.       | T        | N.A.       | Default |
| 292   | General     | N.A.       | T        | N.A.       | Default |
| 293   | General     | N.A.       | T        | N.A.       | Default |
| 294   | General     | N.A.       | T        | N.A.       | Default |
| 295   | General     | N.A.       | T        | N.A.       | Default |
| 296   | General     | N.A.       | T        | N.A.       | Default |
| 297   | General     | N.A.       | T        | N.A.       | Default |
| 298   | General     | N.A.       | T        | N.A.       | Default |
| 299   | General     | N.A.       | T        | N.A.       | Default |
| 300   | General     | N.A.       | T        | N.A.       | Default |
| 301   | General     | N.A.       | T        | N.A.       | Default |
| 302   | General     | N.A.       | T        | N.A.       | Default |
| 303   | General     | N.A.       | T        | N.A.       | Default |
| 304   | General     | N.A.       | T        | N.A.       | Default |
| 305   | General     | N.A.       | T        | N.A.       | Default |
| 306   | General     | N.A.       | T        | N.A.       | Default |
| 307   | General     | N.A.       | T        | N.A.       | Default |

Table: Frame Section Properties 01 - General, Part 1 of 5

| Table: Frame Section Properties 01 - General, Part 1 of 5 |          |         |          |          |            |                 |
|-----------------------------------------------------------|----------|---------|----------|----------|------------|-----------------|
| SectionName                                               | Material | Shape   | t3<br>m  | t2<br>m  | Area<br>m2 | TorsConst<br>m4 |
| LE                                                        | H50      | General | 0.457200 | 0.254000 | 0.500000   | 0.003253        |
| LI                                                        | H50      | General | 0.457200 | 0.254000 | 0.571000   | 0.005677        |
| T                                                         | H25      | General | 0.457200 | 0.254000 | 0.202000   | 0.001350        |
| TL2                                                       | H25      | General | 0.457200 | 0.254000 | 0.202000   | 0.001350        |

Table: Frame Section Properties 01 - General, Part 2 of 5

| Table: Frame Section Properties 01 - General, Part 2 of 5 |           |           |           |           |           |           |
|-----------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| SectionName                                               | I33<br>m4 | I22<br>m4 | AS2<br>m2 | AS3<br>m2 | S33<br>m3 | Z33<br>m3 |
| LE                                                        | 0.067000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |
| LI                                                        | 0.073000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |
| T                                                         | 0.000650  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |
| TL2                                                       | 0.000650  | 1.000000  | 1.000000  | 1.000000  | 1.000000  | 1.000000  |

Table: Frame Section Properties 01 - General, Part 3 of 5

| Table: Frame Section Properties 01 - General, Part 3 of 5 |           |          |          |         |          |         |
|-----------------------------------------------------------|-----------|----------|----------|---------|----------|---------|
| SectionName                                               | Z22<br>m3 | R33<br>m | R22<br>m | ConcCol | ConcBeam | Color   |
| LE                                                        | 1.000000  | 1.000000 | 1.000000 | No      | No       | Red     |
| LI                                                        | 1.000000  | 1.000000 | 1.000000 | No      | No       | Blue    |
| T                                                         | 1.000000  | 1.000000 | 1.000000 | No      | No       | Green   |
| TL2                                                       | 1.000000  | 1.000000 | 1.000000 | No      | No       | Magenta |

Table: Frame Section Properties 01 - General, Part 4 of 5

| Table: Frame Section Properties 01 - General, Part 4 of 5 |                        |          |          |          |          |          |
|-----------------------------------------------------------|------------------------|----------|----------|----------|----------|----------|
| SectionName                                               | TotalMass<br>Tonf-s2/m | FromFile | AMod     | A2Mod    | A3Mod    | JMod     |
| LE                                                        | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| LI                                                        | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| T                                                         | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| TL2                                                       | 0.00                   | No       | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

Table: Frame Section Properties 01 - General, Part 5 of 5

| Table: Frame Section Properties 01 - General, Part 5 of 5 |          |          |          |      |                           |
|-----------------------------------------------------------|----------|----------|----------|------|---------------------------|
| SectionName                                               | I3Mod    | IMod     | WMod     | GUID | Notes                     |
| LE                                                        | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 14:00:58 |
| LI                                                        | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 14:01:34 |
| T                                                         | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 14:05:04 |
| TL2                                                       | 1.000000 | 1.000000 | 1.000000 |      | Added 13/01/2010 15:59:33 |

Table: Joint Added Mass Assignments

| Table: Joint Added Mass Assignments |          |                    |                    |                    |                   |                   |                   |
|-------------------------------------|----------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| Joint                               | CoordSys | Mass1<br>Tonf-s2/m | Mass2<br>Tonf-s2/m | Mass3<br>Tonf-s2/m | MMI1<br>Tonf-m-s2 | MMI2<br>Tonf-m-s2 | MMI3<br>Tonf-m-s2 |
| 2                                   | Global   | 0.00               | 0.00               | 0.29               | 0.00000           | 0.00000           | 0.00000           |
| 3                                   | Global   | 0.00               | 0.00               | 0.29               | 0.00000           | 0.00000           | 0.00000           |
| 4                                   | Global   | 0.00               | 0.00               | 0.29               | 0.00000           | 0.00000           | 0.00000           |



Table: Joint Added Mass Assignments

| Joint | CoordSys | Mass1     | Mass2     | Mass3     | MMI1      | MMI2      | MMI3      |
|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
|       |          | Tonf-s2/m | Tonf-s2/m | Tonf-s2/m | Tonf-m-s2 | Tonf-m-s2 | Tonf-m-s2 |
| 135   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 136   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 137   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 138   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 139   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 140   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 141   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 142   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 143   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 144   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 145   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 146   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 149   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 150   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 151   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 152   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 153   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 154   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 155   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 156   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 157   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 158   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 159   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 160   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 161   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 162   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 163   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 164   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 165   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 166   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |
| 167   | Global   | 0.00      | 0.00      | 0.29      | 0.00000   | 0.00000   | 0.00000   |

Table: Joint Coordinates, Part 1 of 2

Table: Joint Coordinates, Part 1 of 2

| Joint | CoordSys | CoordType | XorR     | Y       | Z       | SpecialJt | GlobalX  |
|-------|----------|-----------|----------|---------|---------|-----------|----------|
|       |          |           | m        | m       | m       |           |          |
| 1     | GLOBAL   | Cartesian | 0.00000  | 0.00000 | 0.00000 | No        | 0.00000  |
| 2     | GLOBAL   | Cartesian | 1.00977  | 0.00000 | 0.00000 | No        | 1.00977  |
| 3     | GLOBAL   | Cartesian | 2.01954  | 0.00000 | 0.00000 | No        | 2.01954  |
| 4     | GLOBAL   | Cartesian | 3.02931  | 0.00000 | 0.00000 | No        | 3.02931  |
| 5     | GLOBAL   | Cartesian | 4.03908  | 0.00000 | 0.00000 | No        | 4.03908  |
| 6     | GLOBAL   | Cartesian | 5.04885  | 0.00000 | 0.00000 | No        | 5.04885  |
| 7     | GLOBAL   | Cartesian | 6.05862  | 0.00000 | 0.00000 | No        | 6.05862  |
| 8     | GLOBAL   | Cartesian | 7.06839  | 0.00000 | 0.00000 | No        | 7.06839  |
| 9     | GLOBAL   | Cartesian | 8.07816  | 0.00000 | 0.00000 | No        | 8.07816  |
| 10    | GLOBAL   | Cartesian | 9.08792  | 0.00000 | 0.00000 | No        | 9.08792  |
| 11    | GLOBAL   | Cartesian | 10.09769 | 0.00000 | 0.00000 | No        | 10.09769 |
| 12    | GLOBAL   | Cartesian | 11.10746 | 0.00000 | 0.00000 | No        | 11.10746 |
| 13    | GLOBAL   | Cartesian | 12.11723 | 0.00000 | 0.00000 | No        | 12.11723 |
| 14    | GLOBAL   | Cartesian | 13.12700 | 0.00000 | 0.00000 | No        | 13.12700 |
| 15    | GLOBAL   | Cartesian | 14.13677 | 0.00000 | 0.00000 | No        | 14.13677 |
| 16    | GLOBAL   | Cartesian | 15.14654 | 0.00000 | 0.00000 | No        | 15.14654 |
| 17    | GLOBAL   | Cartesian | 16.15631 | 0.00000 | 0.00000 | No        | 16.15631 |
| 18    | GLOBAL   | Cartesian | 17.16608 | 0.00000 | 0.00000 | No        | 17.16608 |
| 19    | GLOBAL   | Cartesian | 18.17585 | 0.00000 | 0.00000 | No        | 18.17585 |
| 20    | GLOBAL   | Cartesian | 19.18562 | 0.00000 | 0.00000 | No        | 19.18562 |
| 21    | GLOBAL   | Cartesian | 20.19539 | 0.00000 | 0.00000 | No        | 20.19539 |

Table: Joint Coordinates, Part 1 of 2

| Joint | CoordSys | CoordType | XorR     | Y       | Z         | SpecialJt | GlobalX  |
|-------|----------|-----------|----------|---------|-----------|-----------|----------|
|       |          |           | m        | m       | m         |           |          |
| 22    | GLOBAL   | Cartesian | 0.19921  | 1.85716 | 3.319E-17 | No        | 0.19921  |
| 23    | GLOBAL   | Cartesian | 1.20898  | 1.85716 | 3.319E-17 | No        | 1.20898  |
| 24    | GLOBAL   | Cartesian | 2.21875  | 1.85716 | 3.319E-17 | No        | 2.21875  |
| 25    | GLOBAL   | Cartesian | 3.22852  | 1.85716 | 3.319E-17 | No        | 3.22852  |
| 26    | GLOBAL   | Cartesian | 4.23829  | 1.85716 | 3.319E-17 | No        | 4.23829  |
| 27    | GLOBAL   | Cartesian | 5.24806  | 1.85716 | 3.319E-17 | No        | 5.24806  |
| 28    | GLOBAL   | Cartesian | 6.25783  | 1.85716 | 3.319E-17 | No        | 6.25783  |
| 29    | GLOBAL   | Cartesian | 7.26760  | 1.85716 | 3.319E-17 | No        | 7.26760  |
| 30    | GLOBAL   | Cartesian | 8.27737  | 1.85716 | 3.319E-17 | No        | 8.27737  |
| 31    | GLOBAL   | Cartesian | 9.28714  | 1.85716 | 3.319E-17 | No        | 9.28714  |
| 32    | GLOBAL   | Cartesian | 10.29691 | 1.85716 | 3.319E-17 | No        | 10.29691 |
| 33    | GLOBAL   | Cartesian | 11.30668 | 1.85716 | 3.319E-17 | No        | 11.30668 |
| 34    | GLOBAL   | Cartesian | 12.31645 | 1.85716 | 3.319E-17 | No        | 12.31645 |
| 35    | GLOBAL   | Cartesian | 13.32622 | 1.85716 | 3.319E-17 | No        | 13.32622 |
| 36    | GLOBAL   | Cartesian | 14.33599 | 1.85716 | 3.319E-17 | No        | 14.33599 |
| 37    | GLOBAL   | Cartesian | 15.34576 | 1.85716 | 3.319E-17 | No        | 15.34576 |
| 38    | GLOBAL   | Cartesian | 16.35553 | 1.85716 | 3.319E-17 | No        | 16.35553 |
| 39    | GLOBAL   | Cartesian | 17.36529 | 1.85716 | 3.319E-17 | No        | 17.36529 |
| 40    | GLOBAL   | Cartesian | 18.37506 | 1.85716 | 3.319E-17 | No        | 18.37506 |
| 41    | GLOBAL   | Cartesian | 19.38483 | 1.85716 | 3.319E-17 | No        | 19.38483 |
| 42    | GLOBAL   | Cartesian | 20.39460 | 1.85716 | 3.319E-17 | No        | 20.39460 |
| 43    | GLOBAL   | Cartesian | 0.39843  | 3.71432 | 6.638E-17 | No        | 0.39843  |
| 44    | GLOBAL   | Cartesian | 1.40820  | 3.71432 | 6.638E-17 | No        | 1.40820  |
| 45    | GLOBAL   | Cartesian | 2.41797  | 3.71432 | 6.638E-17 | No        | 2.41797  |
| 46    | GLOBAL   | Cartesian | 3.42774  | 3.71432 | 6.638E-17 | No        | 3.42774  |
| 47    | GLOBAL   | Cartesian | 4.43751  | 3.71432 | 6.638E-17 | No        | 4.43751  |
| 48    | GLOBAL   | Cartesian | 5.44728  | 3.71432 | 6.638E-17 | No        | 5.44728  |
| 49    | GLOBAL   | Cartesian | 6.45705  | 3.71432 | 6.638E-17 | No        | 6.45705  |
| 50    | GLOBAL   | Cartesian | 7.46681  | 3.71432 | 6.638E-17 | No        | 7.46681  |
| 51    | GLOBAL   | Cartesian | 8.47658  | 3.71432 | 6.638E-17 | No        | 8.47658  |
| 52    | GLOBAL   | Cartesian | 9.48635  | 3.71432 | 6.638E-17 | No        | 9.48635  |
| 53    | GLOBAL   | Cartesian | 10.49612 | 3.71432 | 6.638E-17 | No        | 10.49612 |
| 54    | GLOBAL   | Cartesian | 11.50589 | 3.71432 | 6.638E-17 | No        | 11.50589 |
| 55    | GLOBAL   | Cartesian | 12.51566 | 3.71432 | 6.638E-17 | No        | 12.51566 |
| 56    | GLOBAL   | Cartesian | 13.52543 | 3.71432 | 6.638E-17 | No        | 13.52543 |
| 57    | GLOBAL   | Cartesian | 14.53520 | 3.71432 | 6.638E-17 | No        | 14.53520 |
| 58    | GLOBAL   | Cartesian | 15.54497 | 3.71432 | 6.638E-17 | No        | 15.54497 |
| 59    | GLOBAL   | Cartesian | 16.55474 | 3.71432 | 6.638E-17 | No        | 16.55474 |
| 60    | GLOBAL   | Cartesian | 17.56451 | 3.71432 | 6.638E-17 | No        | 17.56451 |
| 61    | GLOBAL   | Cartesian | 18.57428 | 3.71432 | 6.638E-17 | No        | 18.57428 |
| 62    | GLOBAL   | Cartesian | 19.58405 | 3.71432 | 6.638E-17 | No        | 19.58405 |
| 63    | GLOBAL   | Cartesian | 20.59382 | 3.71432 | 6.638E-17 | No        | 20.59382 |
| 64    | GLOBAL   | Cartesian | 0.59764  | 5.57148 | 9.957E-17 | No        | 0.59764  |
| 65    | GLOBAL   | Cartesian | 1.60741  | 5.57148 | 9.957E-17 | No        | 1.60741  |
| 66    | GLOBAL   | Cartesian | 2.61718  | 5.57148 | 9.957E-17 | No        | 2.61718  |
| 67    | GLOBAL   | Cartesian | 3.62695  | 5.57148 | 9.957E-17 | No        | 3.62695  |
| 68    | GLOBAL   | Cartesian | 4.63672  | 5.57148 | 9.957E-17 | No        | 4.63672  |
| 69    | GLOBAL   | Cartesian | 5.64649  | 5.57148 | 9.957E-17 | No        | 5.64649  |
| 70    | GLOBAL   | Cartesian | 6.65626  | 5.57148 | 9.957E-17 | No        | 6.65626  |
| 71    | GLOBAL   | Cartesian | 7.66603  | 5.57148 | 9.957E-17 | No        | 7.66603  |
| 72    | GLOBAL   | Cartesian | 8.67580  | 5.57148 | 9.957E-17 | No        | 8.67580  |
| 73    | GLOBAL   | Cartesian | 9.68557  | 5.57148 | 9.957E-17 | No        | 9.68557  |
| 74    | GLOBAL   | Cartesian | 10.69534 | 5.57148 | 9.957E-17 | No        | 10.69534 |
| 75    | GLOBAL   | Cartesian | 11.70511 | 5.57148 | 9.957E-17 | No        | 11.70511 |
| 76    | GLOBAL   | Cartesian | 12.71488 | 5.57148 | 9.957E-17 | No        | 12.71488 |
| 77    | GLOBAL   | Cartesian | 13.72465 | 5.57148 | 9.957E-17 | No        | 13.72465 |
| 78    | GLOBAL   | Cartesian | 14.73442 | 5.57148 | 9.957E-17 | No        | 14.73442 |
| 79    | GLOBAL   | Cartesian | 15.74418 | 5.57148 | 9.957E-17 | No        | 15.74418 |
| 80    | GLOBAL   | Cartesian | 16.75395 | 5.57148 | 9.957E-17 | No        | 16.75395 |

Table: Joint Coordinates, Part 1 of 2

| Joint | CoordSys | CoordType | XorR<br>m | Y<br>m   | Z<br>m     | SpecialJt | GlobalX<br>m |
|-------|----------|-----------|-----------|----------|------------|-----------|--------------|
| 81    | GLOBAL   | Cartesian | 17.76372  | 5.57148  | 9.957E-17  | No        | 17.76372     |
| 82    | GLOBAL   | Cartesian | 18.77349  | 5.57148  | 9.957E-17  | No        | 18.77349     |
| 83    | GLOBAL   | Cartesian | 19.78326  | 5.57148  | 9.957E-17  | No        | 19.78326     |
| 84    | GLOBAL   | Cartesian | 20.79303  | 5.57148  | 9.957E-17  | No        | 20.79303     |
| 85    | GLOBAL   | Cartesian | 0.79686   | 7.42864  | 1.328E-16  | No        | 0.79686      |
| 86    | GLOBAL   | Cartesian | 1.80663   | 7.42864  | 1.328E-16  | No        | 1.80663      |
| 87    | GLOBAL   | Cartesian | 2.81640   | 7.42864  | 1.328E-16  | No        | 2.81640      |
| 88    | GLOBAL   | Cartesian | 3.82617   | 7.42864  | 1.328E-16  | No        | 3.82617      |
| 89    | GLOBAL   | Cartesian | 4.83594   | 7.42864  | 1.328E-16  | No        | 4.83594      |
| 90    | GLOBAL   | Cartesian | 5.84571   | 7.42864  | 1.328E-16  | No        | 5.84571      |
| 91    | GLOBAL   | Cartesian | 6.85547   | 7.42864  | 1.328E-16  | No        | 6.85547      |
| 92    | GLOBAL   | Cartesian | 7.86524   | 7.42864  | 1.328E-16  | No        | 7.86524      |
| 93    | GLOBAL   | Cartesian | 8.87501   | 7.42864  | 1.328E-16  | No        | 8.87501      |
| 94    | GLOBAL   | Cartesian | 9.88478   | 7.42864  | 1.328E-16  | No        | 9.88478      |
| 95    | GLOBAL   | Cartesian | 10.89455  | 7.42864  | 1.328E-16  | No        | 10.89455     |
| 96    | GLOBAL   | Cartesian | 11.90432  | 7.42864  | 1.328E-16  | No        | 11.90432     |
| 97    | GLOBAL   | Cartesian | 12.91409  | 7.42864  | 1.328E-16  | No        | 12.91409     |
| 98    | GLOBAL   | Cartesian | 13.92386  | 7.42864  | 1.328E-16  | No        | 13.92386     |
| 99    | GLOBAL   | Cartesian | 14.93363  | 7.42864  | 1.328E-16  | No        | 14.93363     |
| 100   | GLOBAL   | Cartesian | 15.94340  | 7.42864  | 1.328E-16  | No        | 15.94340     |
| 101   | GLOBAL   | Cartesian | 16.95317  | 7.42864  | 1.328E-16  | No        | 16.95317     |
| 102   | GLOBAL   | Cartesian | 17.96294  | 7.42864  | 1.328E-16  | No        | 17.96294     |
| 103   | GLOBAL   | Cartesian | 18.97271  | 7.42864  | 1.328E-16  | No        | 18.97271     |
| 104   | GLOBAL   | Cartesian | 19.98248  | 7.42864  | 1.328E-16  | No        | 19.98248     |
| 105   | GLOBAL   | Cartesian | 20.99225  | 7.42864  | 1.328E-16  | No        | 20.99225     |
| 106   | GLOBAL   | Cartesian | 0.99607   | 9.28580  | 1.659E-16  | No        | 0.99607      |
| 107   | GLOBAL   | Cartesian | 2.00584   | 9.28580  | 1.659E-16  | No        | 2.00584      |
| 108   | GLOBAL   | Cartesian | 3.01561   | 9.28580  | 1.659E-16  | No        | 3.01561      |
| 109   | GLOBAL   | Cartesian | 4.02538   | 9.28580  | 1.659E-16  | No        | 4.02538      |
| 110   | GLOBAL   | Cartesian | 5.03515   | 9.28580  | 1.659E-16  | No        | 5.03515      |
| 111   | GLOBAL   | Cartesian | 6.04492   | 9.28580  | 1.659E-16  | No        | 6.04492      |
| 112   | GLOBAL   | Cartesian | 7.05469   | 9.28580  | 1.659E-16  | No        | 7.05469      |
| 113   | GLOBAL   | Cartesian | 8.06446   | 9.28580  | 1.659E-16  | No        | 8.06446      |
| 114   | GLOBAL   | Cartesian | 9.07423   | 9.28580  | 1.659E-16  | No        | 9.07423      |
| 115   | GLOBAL   | Cartesian | 10.08400  | 9.28580  | 1.659E-16  | No        | 10.08400     |
| 116   | GLOBAL   | Cartesian | 11.09377  | 9.28580  | 1.659E-16  | No        | 11.09377     |
| 117   | GLOBAL   | Cartesian | 12.10354  | 9.28580  | 1.659E-16  | No        | 12.10354     |
| 118   | GLOBAL   | Cartesian | 13.11331  | 9.28580  | 1.659E-16  | No        | 13.11331     |
| 119   | GLOBAL   | Cartesian | 14.12307  | 9.28580  | 1.659E-16  | No        | 14.12307     |
| 120   | GLOBAL   | Cartesian | 15.13284  | 9.28580  | 1.659E-16  | No        | 15.13284     |
| 121   | GLOBAL   | Cartesian | 16.14261  | 9.28580  | 1.659E-16  | No        | 16.14261     |
| 122   | GLOBAL   | Cartesian | 17.15238  | 9.28580  | 1.659E-16  | No        | 17.15238     |
| 123   | GLOBAL   | Cartesian | 18.16215  | 9.28580  | 1.659E-16  | No        | 18.16215     |
| 124   | GLOBAL   | Cartesian | 19.17192  | 9.28580  | 1.659E-16  | No        | 19.17192     |
| 125   | GLOBAL   | Cartesian | 20.18169  | 9.28580  | 1.659E-16  | No        | 20.18169     |
| 126   | GLOBAL   | Cartesian | 21.19146  | 9.28580  | 1.659E-16  | No        | 21.19146     |
| 127   | GLOBAL   | Cartesian | 1.19529   | 11.14296 | -3.551E-19 | No        | 1.19529      |
| 128   | GLOBAL   | Cartesian | 2.20506   | 11.14296 | -3.551E-19 | No        | 2.20506      |
| 129   | GLOBAL   | Cartesian | 3.21483   | 11.14296 | -3.551E-19 | No        | 3.21483      |
| 130   | GLOBAL   | Cartesian | 4.22460   | 11.14296 | -3.551E-19 | No        | 4.22460      |
| 131   | GLOBAL   | Cartesian | 5.23436   | 11.14296 | -3.551E-19 | No        | 5.23436      |
| 132   | GLOBAL   | Cartesian | 6.24413   | 11.14296 | -3.551E-19 | No        | 6.24413      |
| 133   | GLOBAL   | Cartesian | 7.25390   | 11.14296 | -3.551E-19 | No        | 7.25390      |
| 134   | GLOBAL   | Cartesian | 8.26367   | 11.14296 | -3.551E-19 | No        | 8.26367      |
| 135   | GLOBAL   | Cartesian | 9.27344   | 11.14296 | -3.551E-19 | No        | 9.27344      |
| 136   | GLOBAL   | Cartesian | 10.28321  | 11.14296 | -3.551E-19 | No        | 10.28321     |
| 137   | GLOBAL   | Cartesian | 11.29298  | 11.14296 | -3.551E-19 | No        | 11.29298     |
| 138   | GLOBAL   | Cartesian | 12.30275  | 11.14296 | -3.551E-19 | No        | 12.30275     |
| 139   | GLOBAL   | Cartesian | 13.31252  | 11.14296 | -3.551E-19 | No        | 13.31252     |

Table: Joint Coordinates, Part 1 of 2

| Joint | CoordSys | CoordType | XorR<br>m | Y<br>m   | Z<br>m     | SpecialJt | GlobalX<br>m |
|-------|----------|-----------|-----------|----------|------------|-----------|--------------|
| 140   | GLOBAL   | Cartesian | 14.32229  | 11.14296 | -3.551E-19 | No        | 14.32229     |
| 141   | GLOBAL   | Cartesian | 15.33206  | 11.14296 | -3.551E-19 | No        | 15.33206     |
| 142   | GLOBAL   | Cartesian | 16.34183  | 11.14296 | -3.551E-19 | No        | 16.34183     |
| 143   | GLOBAL   | Cartesian | 17.35160  | 11.14296 | -3.551E-19 | No        | 17.35160     |
| 144   | GLOBAL   | Cartesian | 18.36137  | 11.14296 | -3.551E-19 | No        | 18.36137     |
| 145   | GLOBAL   | Cartesian | 19.37114  | 11.14296 | -3.551E-19 | No        | 19.37114     |
| 146   | GLOBAL   | Cartesian | 20.38091  | 11.14296 | -3.551E-19 | No        | 20.38091     |
| 147   | GLOBAL   | Cartesian | 21.39068  | 11.14296 | -3.551E-19 | No        | 21.39068     |
| 148   | GLOBAL   | Cartesian | 1.39450   | 13.00012 | 2.323E-16  | No        | 1.39450      |
| 149   | GLOBAL   | Cartesian | 2.40427   | 13.00012 | 2.323E-16  | No        | 2.40427      |
| 150   | GLOBAL   | Cartesian | 3.41404   | 13.00012 | 2.323E-16  | No        | 3.41404      |
| 151   | GLOBAL   | Cartesian | 4.42381   | 13.00012 | 2.323E-16  | No        | 4.42381      |
| 152   | GLOBAL   | Cartesian | 5.43358   | 13.00012 | 2.323E-16  | No        | 5.43358      |
| 153   | GLOBAL   | Cartesian | 6.44335   | 13.00012 | 2.323E-16  | No        | 6.44335      |
| 154   | GLOBAL   | Cartesian | 7.45312   | 13.00012 | 2.323E-16  | No        | 7.45312      |
| 155   | GLOBAL   | Cartesian | 8.46289   | 13.00012 | 2.323E-16  | No        | 8.46289      |
| 156   | GLOBAL   | Cartesian | 9.47266   | 13.00012 | 2.323E-16  | No        | 9.47266      |
| 157   | GLOBAL   | Cartesian | 10.48243  | 13.00012 | 2.323E-16  | No        | 10.48243     |
| 158   | GLOBAL   | Cartesian | 11.49220  | 13.00012 | 2.323E-16  | No        | 11.49220     |
| 159   | GLOBAL   | Cartesian | 12.50196  | 13.00012 | 2.323E-16  | No        | 12.50196     |
| 160   | GLOBAL   | Cartesian | 13.51173  | 13.00012 | 2.323E-16  | No        | 13.51173     |
| 161   | GLOBAL   | Cartesian | 14.52150  | 13.00012 | 2.323E-16  | No        | 14.52150     |
| 162   | GLOBAL   | Cartesian | 15.53127  | 13.00012 | 2.323E-16  | No        | 15.53127     |
| 163   | GLOBAL   | Cartesian | 16.54104  | 13.00012 | 2.323E-16  | No        | 16.54104     |
| 164   | GLOBAL   | Cartesian | 17.55081  | 13.00012 | 2.323E-16  | No        | 17.55081     |
| 165   | GLOBAL   | Cartesian | 18.56058  | 13.00012 | 2.323E-16  | No        | 18.56058     |
| 166   | GLOBAL   | Cartesian | 19.57035  | 13.00012 | 2.323E-16  | No        | 19.57035     |
| 167   | GLOBAL   | Cartesian | 20.58012  | 13.00012 | 2.323E-16  | No        | 20.58012     |
| 168   | GLOBAL   | Cartesian | 21.58989  | 13.00012 | 2.323E-16  | No        | 21.58989     |

Table: Joint Coordinates, Part 2 of 2

| Joint | GlobalY<br>m | GlobalZ<br>m | GUID |
|-------|--------------|--------------|------|
| 1     | 0.00000      | 0.00000      |      |
| 2     | 0.00000      | 0.00000      |      |
| 3     | 0.00000      | 0.00000      |      |
| 4     | 0.00000      | 0.00000      |      |
| 5     | 0.00000      | 0.00000      |      |
| 6     | 0.00000      | 0.00000      |      |
| 7     | 0.00000      | 0.00000      |      |
| 8     | 0.00000      | 0.00000      |      |
| 9     | 0.00000      | 0.00000      |      |
| 10    | 0.00000      | 0.00000      |      |
| 11    | 0.00000      | 0.00000      |      |
| 12    | 0.00000      | 0.00000      |      |
| 13    | 0.00000      | 0.00000      |      |
| 14    | 0.00000      | 0.00000      |      |
| 15    | 0.00000      | 0.00000      |      |
| 16    | 0.00000      | 0.00000      |      |
| 17    | 0.00000      | 0.00000      |      |
| 18    | 0.00000      | 0.00000      |      |
| 19    | 0.00000      | 0.00000      |      |
| 20    | 0.00000      | 0.00000      |      |
| 21    | 0.00000      | 0.00000      |      |
| 22    | 1.85716      | 3.319E-17    |      |
| 23    | 1.85716      | 3.319E-17    |      |

Table: Joint Coordinates, Part 2 of 2

| Joint | GlobalY<br>m | GlobalZ<br>m | GUID |
|-------|--------------|--------------|------|
| 24    | 1.85716      | 3.319E-17    |      |
| 25    | 1.85716      | 3.319E-17    |      |
| 26    | 1.85716      | 3.319E-17    |      |
| 27    | 1.85716      | 3.319E-17    |      |
| 28    | 1.85716      | 3.319E-17    |      |
| 29    | 1.85716      | 3.319E-17    |      |
| 30    | 1.85716      | 3.319E-17    |      |
| 31    | 1.85716      | 3.319E-17    |      |
| 32    | 1.85716      | 3.319E-17    |      |
| 33    | 1.85716      | 3.319E-17    |      |
| 34    | 1.85716      | 3.319E-17    |      |
| 35    | 1.85716      | 3.319E-17    |      |
| 36    | 1.85716      | 3.319E-17    |      |
| 37    | 1.85716      | 3.319E-17    |      |
| 38    | 1.85716      | 3.319E-17    |      |
| 39    | 1.85716      | 3.319E-17    |      |
| 40    | 1.85716      | 3.319E-17    |      |
| 41    | 1.85716      | 3.319E-17    |      |
| 42    | 1.85716      | 3.319E-17    |      |
| 43    | 3.71432      | 6.638E-17    |      |
| 44    | 3.71432      | 6.638E-17    |      |
| 45    | 3.71432      | 6.638E-17    |      |
| 46    | 3.71432      | 6.638E-17    |      |
| 47    | 3.71432      | 6.638E-17    |      |
| 48    | 3.71432      | 6.638E-17    |      |
| 49    | 3.71432      | 6.638E-17    |      |
| 50    | 3.71432      | 6.638E-17    |      |
| 51    | 3.71432      | 6.638E-17    |      |
| 52    | 3.71432      | 6.638E-17    |      |
| 53    | 3.71432      | 6.638E-17    |      |
| 54    | 3.71432      | 6.638E-17    |      |
| 55    | 3.71432      | 6.638E-17    |      |
| 56    | 3.71432      | 6.638E-17    |      |
| 57    | 3.71432      | 6.638E-17    |      |
| 58    | 3.71432      | 6.638E-17    |      |
| 59    | 3.71432      | 6.638E-17    |      |
| 60    | 3.71432      | 6.638E-17    |      |
| 61    | 3.71432      | 6.638E-17    |      |
| 62    | 3.71432      | 6.638E-17    |      |
| 63    | 3.71432      | 6.638E-17    |      |
| 64    | 5.57148      | 9.957E-17    |      |
| 65    | 5.57148      | 9.957E-17    |      |
| 66    | 5.57148      | 9.957E-17    |      |
| 67    | 5.57148      | 9.957E-17    |      |
| 68    | 5.57148      | 9.957E-17    |      |
| 69    | 5.57148      | 9.957E-17    |      |
| 70    | 5.57148      | 9.957E-17    |      |
| 71    | 5.57148      | 9.957E-17    |      |
| 72    | 5.57148      | 9.957E-17    |      |
| 73    | 5.57148      | 9.957E-17    |      |
| 74    | 5.57148      | 9.957E-17    |      |
| 75    | 5.57148      | 9.957E-17    |      |
| 76    | 5.57148      | 9.957E-17    |      |
| 77    | 5.57148      | 9.957E-17    |      |
| 78    | 5.57148      | 9.957E-17    |      |
| 79    | 5.57148      | 9.957E-17    |      |
| 80    | 5.57148      | 9.957E-17    |      |
| 81    | 5.57148      | 9.957E-17    |      |
| 82    | 5.57148      | 9.957E-17    |      |

Table: Joint Coordinates, Part 2 of 2

| Joint | GlobalY<br>m | GlobalZ<br>m | GUID |
|-------|--------------|--------------|------|
| 83    | 5.57148      | 9.957E-17    |      |
| 84    | 5.57148      | 9.957E-17    |      |
| 85    | 7.42864      | 1.328E-16    |      |
| 86    | 7.42864      | 1.328E-16    |      |
| 87    | 7.42864      | 1.328E-16    |      |
| 88    | 7.42864      | 1.328E-16    |      |
| 89    | 7.42864      | 1.328E-16    |      |
| 90    | 7.42864      | 1.328E-16    |      |
| 91    | 7.42864      | 1.328E-16    |      |
| 92    | 7.42864      | 1.328E-16    |      |
| 93    | 7.42864      | 1.328E-16    |      |
| 94    | 7.42864      | 1.328E-16    |      |
| 95    | 7.42864      | 1.328E-16    |      |
| 96    | 7.42864      | 1.328E-16    |      |
| 97    | 7.42864      | 1.328E-16    |      |
| 98    | 7.42864      | 1.328E-16    |      |
| 99    | 7.42864      | 1.328E-16    |      |
| 100   | 7.42864      | 1.328E-16    |      |
| 101   | 7.42864      | 1.328E-16    |      |
| 102   | 7.42864      | 1.328E-16    |      |
| 103   | 7.42864      | 1.328E-16    |      |
| 104   | 7.42864      | 1.328E-16    |      |
| 105   | 7.42864      | 1.328E-16    |      |
| 106   | 9.28580      | 1.659E-16    |      |
| 107   | 9.28580      | 1.659E-16    |      |
| 108   | 9.28580      | 1.659E-16    |      |
| 109   | 9.28580      | 1.659E-16    |      |
| 110   | 9.28580      | 1.659E-16    |      |
| 111   | 9.28580      | 1.659E-16    |      |
| 112   | 9.28580      | 1.659E-16    |      |
| 113   | 9.28580      | 1.659E-16    |      |
| 114   | 9.28580      | 1.659E-16    |      |
| 115   | 9.28580      | 1.659E-16    |      |
| 116   | 9.28580      | 1.659E-16    |      |
| 117   | 9.28580      | 1.659E-16    |      |
| 118   | 9.28580      | 1.659E-16    |      |
| 119   | 9.28580      | 1.659E-16    |      |
| 120   | 9.28580      | 1.659E-16    |      |
| 121   | 9.28580      | 1.659E-16    |      |
| 122   | 9.28580      | 1.659E-16    |      |
| 123   | 9.28580      | 1.659E-16    |      |
| 124   | 9.28580      | 1.659E-16    |      |
| 125   | 9.28580      | 1.659E-16    |      |
| 126   | 9.28580      | 1.659E-16    |      |
| 127   | 11.14296     | -3.551E-19   |      |
| 128   | 11.14296     | -3.551E-19   |      |
| 129   | 11.14296     | -3.551E-19   |      |
| 130   | 11.14296     | -3.551E-19   |      |
| 131   | 11.14296     | -3.551E-19   |      |
| 132   | 11.14296     | -3.551E-19   |      |
| 133   | 11.14296     | -3.551E-19   |      |
| 134   | 11.14296     | -3.551E-19   |      |
| 135   | 11.14296     | -3.551E-19   |      |
| 136   | 11.14296     | -3.551E-19   |      |
| 137   | 11.14296     | -3.551E-19   |      |
| 138   | 11.14296     | -3.551E-19   |      |
| 139   | 11.14296     | -3.551E-19   |      |
| 140   | 11.14296     | -3.551E-19   |      |
| 141   | 11.14296     | -3.551E-19   |      |

| Table: Joint Coordinates, Part 2 of 2 |          |            |      |
|---------------------------------------|----------|------------|------|
| Joint                                 | GlobalY  | GlobalZ    | GUID |
|                                       | m        | m          |      |
| 142                                   | 11.14296 | -3.551E-19 |      |
| 143                                   | 11.14296 | -3.551E-19 |      |
| 144                                   | 11.14296 | -3.551E-19 |      |
| 145                                   | 11.14296 | -3.551E-19 |      |
| 146                                   | 11.14296 | -3.551E-19 |      |
| 147                                   | 11.14296 | -3.551E-19 |      |
| 148                                   | 13.00012 | 2.323E-16  |      |
| 149                                   | 13.00012 | 2.323E-16  |      |
| 150                                   | 13.00012 | 2.323E-16  |      |
| 151                                   | 13.00012 | 2.323E-16  |      |
| 152                                   | 13.00012 | 2.323E-16  |      |
| 153                                   | 13.00012 | 2.323E-16  |      |
| 154                                   | 13.00012 | 2.323E-16  |      |
| 155                                   | 13.00012 | 2.323E-16  |      |
| 156                                   | 13.00012 | 2.323E-16  |      |
| 157                                   | 13.00012 | 2.323E-16  |      |
| 158                                   | 13.00012 | 2.323E-16  |      |
| 159                                   | 13.00012 | 2.323E-16  |      |
| 160                                   | 13.00012 | 2.323E-16  |      |
| 161                                   | 13.00012 | 2.323E-16  |      |
| 162                                   | 13.00012 | 2.323E-16  |      |
| 163                                   | 13.00012 | 2.323E-16  |      |
| 164                                   | 13.00012 | 2.323E-16  |      |
| 165                                   | 13.00012 | 2.323E-16  |      |
| 166                                   | 13.00012 | 2.323E-16  |      |
| 167                                   | 13.00012 | 2.323E-16  |      |
| 168                                   | 13.00012 | 2.323E-16  |      |

Table: Joint Loads - Force, Part 1 of 2

| Table: Joint Loads - Force, Part 1 of 2 |         |          |        |        |         |         |         |
|-----------------------------------------|---------|----------|--------|--------|---------|---------|---------|
| Joint                                   | LoadPat | CoordSys | F1     | F2     | F3      | M1      | M2      |
|                                         |         |          | Tonf   | Tonf   | Tonf    | Tonf-m  | Tonf-m  |
| 46                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3000 | 0.00000 | 0.00000 |
| 47                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1600 | 0.00000 | 0.00000 |
| 48                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.0400 | 0.00000 | 0.00000 |
| 51                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.0000 | 0.00000 | 0.00000 |
| 52                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.5000 | 0.00000 | 0.00000 |
| 54                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8000 | 0.00000 | 0.00000 |
| 55                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.7000 | 0.00000 | 0.00000 |
| 58                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1000 | 0.00000 | 0.00000 |
| 59                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1500 | 0.00000 | 0.00000 |
| 60                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.2500 | 0.00000 | 0.00000 |
| 67                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.2500 | 0.00000 | 0.00000 |
| 68                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1500 | 0.00000 | 0.00000 |
| 69                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1000 | 0.00000 | 0.00000 |
| 72                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.7000 | 0.00000 | 0.00000 |
| 73                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8000 | 0.00000 | 0.00000 |
| 75                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.5000 | 0.00000 | 0.00000 |
| 76                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.0000 | 0.00000 | 0.00000 |
| 79                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.0400 | 0.00000 | 0.00000 |
| 80                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1600 | 0.00000 | 0.00000 |
| 81                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3000 | 0.00000 | 0.00000 |
| 88                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3000 | 0.00000 | 0.00000 |
| 89                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1600 | 0.00000 | 0.00000 |
| 90                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.0400 | 0.00000 | 0.00000 |
| 93                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.0000 | 0.00000 | 0.00000 |
| 94                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.5000 | 0.00000 | 0.00000 |

| Table: Joint Loads - Force, Part 1 of 2 |         |          |        |        |         |         |         |
|-----------------------------------------|---------|----------|--------|--------|---------|---------|---------|
| Joint                                   | LoadPat | CoordSys | F1     | F2     | F3      | M1      | M2      |
|                                         |         |          | Tonf   | Tonf   | Tonf    | Tonf-m  | Tonf-m  |
| 96                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8000 | 0.00000 | 0.00000 |
| 97                                      | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.7000 | 0.00000 | 0.00000 |
| 100                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1000 | 0.00000 | 0.00000 |
| 101                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1500 | 0.00000 | 0.00000 |
| 102                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.2500 | 0.00000 | 0.00000 |
| 109                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.2500 | 0.00000 | 0.00000 |
| 110                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1500 | 0.00000 | 0.00000 |
| 111                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1000 | 0.00000 | 0.00000 |
| 114                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.7000 | 0.00000 | 0.00000 |
| 115                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.8000 | 0.00000 | 0.00000 |
| 117                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.5000 | 0.00000 | 0.00000 |
| 118                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -1.0000 | 0.00000 | 0.00000 |
| 121                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -4.0400 | 0.00000 | 0.00000 |
| 122                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -3.1600 | 0.00000 | 0.00000 |
| 123                                     | 4C26TB  | GLOBAL   | 0.0000 | 0.0000 | -2.3000 | 0.00000 | 0.00000 |

Table: Joint Loads - Force, Part 2 of 2

| Table: Joint Loads - Force, Part 2 of 2 |         |         |      |
|-----------------------------------------|---------|---------|------|
| Joint                                   | LoadPat | M3      | GUID |
|                                         |         | Tonf-m  |      |
| 46                                      | 4C26TB  | 0.00000 |      |
| 47                                      | 4C26TB  | 0.00000 |      |
| 48                                      | 4C26TB  | 0.00000 |      |
| 51                                      | 4C26TB  | 0.00000 |      |
| 52                                      | 4C26TB  | 0.00000 |      |
| 54                                      | 4C26TB  | 0.00000 |      |
| 55                                      | 4C26TB  | 0.00000 |      |
| 58                                      | 4C26TB  | 0.00000 |      |
| 59                                      | 4C26TB  | 0.00000 |      |
| 60                                      | 4C26TB  | 0.00000 |      |
| 67                                      | 4C26TB  | 0.00000 |      |
| 68                                      | 4C26TB  | 0.00000 |      |
| 69                                      | 4C26TB  | 0.00000 |      |
| 72                                      | 4C26TB  | 0.00000 |      |
| 73                                      | 4C26TB  | 0.00000 |      |
| 75                                      | 4C26TB  | 0.00000 |      |
| 76                                      | 4C26TB  | 0.00000 |      |
| 79                                      | 4C26TB  | 0.00000 |      |
| 80                                      | 4C26TB  | 0.00000 |      |
| 81                                      | 4C26TB  | 0.00000 |      |
| 88                                      | 4C26TB  | 0.00000 |      |
| 89                                      | 4C26TB  | 0.00000 |      |
| 90                                      | 4C26TB  | 0.00000 |      |
| 93                                      | 4C26TB  | 0.00000 |      |
| 94                                      | 4C26TB  | 0.00000 |      |
| 96                                      | 4C26TB  | 0.00000 |      |
| 97                                      | 4C26TB  | 0.00000 |      |
| 100                                     | 4C26TB  | 0.00000 |      |
| 101                                     | 4C26TB  | 0.00000 |      |
| 102                                     | 4C26TB  | 0.00000 |      |
| 109                                     | 4C26TB  | 0.00000 |      |
| 110                                     | 4C26TB  | 0.00000 |      |
| 111                                     | 4C26TB  | 0.00000 |      |
| 114                                     | 4C26TB  | 0.00000 |      |
| 115                                     | 4C26TB  | 0.00000 |      |
| 117                                     | 4C26TB  | 0.00000 |      |
| 118                                     | 4C26TB  | 0.00000 |      |

| Table: Joint Loads - Force, Part 2 of 2 |         |              |      |
|-----------------------------------------|---------|--------------|------|
| Joint                                   | LoadPat | M3<br>Tonf-m | GUID |
| 121                                     | 4C26TB  | 0.00000      |      |
| 122                                     | 4C26TB  | 0.00000      |      |
| 123                                     | 4C26TB  | 0.00000      |      |

Table: Joint Restraint Assignments

| Table: Joint Restraint Assignments |     |     |     |    |    |    |
|------------------------------------|-----|-----|-----|----|----|----|
| Joint                              | U1  | U2  | U3  | R1 | R2 | R3 |
| 1                                  | Yes | Yes | Yes | No | No | No |
| 21                                 | No  | Yes | Yes | No | No | No |
| 22                                 | Yes | Yes | Yes | No | No | No |
| 42                                 | No  | Yes | Yes | No | No | No |
| 43                                 | Yes | Yes | Yes | No | No | No |
| 63                                 | No  | Yes | Yes | No | No | No |
| 64                                 | Yes | Yes | Yes | No | No | No |
| 84                                 | No  | Yes | Yes | No | No | No |
| 85                                 | Yes | Yes | Yes | No | No | No |
| 105                                | No  | Yes | Yes | No | No | No |
| 106                                | Yes | Yes | Yes | No | No | No |
| 126                                | No  | Yes | Yes | No | No | No |
| 127                                | Yes | Yes | Yes | No | No | No |
| 147                                | No  | Yes | Yes | No | No | No |
| 148                                | Yes | Yes | Yes | No | No | No |
| 168                                | No  | Yes | Yes | No | No | No |

Table: Load Case Definitions, Part 1 of 2

| Table: Load Case Definitions, Part 1 of 2 |           |             |           |          |            |            |          |
|-------------------------------------------|-----------|-------------|-----------|----------|------------|------------|----------|
| Case                                      | Type      | InitialCond | ModalCase | BaseCase | DesTypeOpt | DesignType | AutoType |
| DEAD                                      | LinStatic | Zero        |           |          | Prog Det   | DEAD       | None     |
| MODAL                                     | LinModal  | Zero        |           |          | Prog Det   | OTHER      | None     |
| 4C26TB                                    | LinStatic | Zero        |           |          | Prog Det   | LIVE       | None     |

Table: Load Case Definitions, Part 2 of 2

| Table: Load Case Definitions, Part 2 of 2 |         |            |      |       |
|-------------------------------------------|---------|------------|------|-------|
| Case                                      | RunCase | CaseStatus | GUID | Notes |
| DEAD                                      | No      | Not Run    |      |       |
| MODAL                                     | Yes     | Not Run    |      |       |
| 4C26TB                                    | Yes     | Not Run    |      |       |

Table: Material Properties 01 - General, Part 1 of 2

| Table: Material Properties 01 - General, Part 1 of 2 |          |           |                |          |      |
|------------------------------------------------------|----------|-----------|----------------|----------|------|
| Material                                             | Type     | SymType   | TempDepen<br>d | Color    | GUID |
| H25                                                  | Concrete | Isotropic | No             | 8454016  |      |
| H50                                                  | Concrete | Isotropic | No             | 10461087 |      |

Table: Material Properties 02 - Basic Mechanical Properties

| Table: Material Properties 02 - Basic Mechanical Properties |                       |                        |               |                |          |            |
|-------------------------------------------------------------|-----------------------|------------------------|---------------|----------------|----------|------------|
| Material                                                    | UnitWeight<br>Tonf/m3 | UnitMass<br>Tonf-s2/m4 | E1<br>Tonf/m2 | G12<br>Tonf/m2 | U12      | A1<br>1/C  |
| H25                                                         | 0.0000E+00            | 0.0000E+00             | 3271685.00    | 1258340.38     | 0.300000 | 1.1700E-05 |
| H50                                                         | 0.0000E+00            | 0.0000E+00             | 3948294.00    | 1518574.62     | 0.300000 | 1.1700E-05 |

Table: Material Properties 03b - Concrete Data, Part 1 of 2

| Table: Material Properties 03b - Concrete Data, Part 1 of 2 |               |          |            |           |          |          |                                 |
|-------------------------------------------------------------|---------------|----------|------------|-----------|----------|----------|---------------------------------|
| Material                                                    | Fc<br>Tonf/m2 | LtWtConc | SSCurveOpt | SSHysType | SFc      | SCap     | FinalSlope<br>FAngle<br>Degrees |
| H25                                                         | 2109.21       | No       | Mander     | Takeda    | 0.002000 | 0.005000 | -0.100000<br>0.000              |
| H50                                                         | 2109.21       | No       | Mander     | Takeda    | 0.002000 | 0.005000 | -0.100000<br>0.000              |

Table: Material Properties 03b - Concrete Data, Part 2 of 2

| Table: Material Properties<br>03b - Concrete Data, Part 2<br>of 2 |                   |
|-------------------------------------------------------------------|-------------------|
| Material                                                          | DAngle<br>Degrees |
| H25                                                               | 0.000             |
| H50                                                               | 0.000             |

Table: Material Properties 06 - Damping Parameters

| Table: Material Properties 06 - Damping Parameters |            |                  |                 |                   |          |
|----------------------------------------------------|------------|------------------|-----------------|-------------------|----------|
| Material                                           | ModalRatio | VisMass<br>1/Sec | VisStiff<br>Sec | HysMass<br>1/Sec2 | HysStiff |
| H25                                                | 0.0000     | 0.0000           | 0.0000          | 0.0000            | 0.000000 |
| H50                                                | 0.0000     | 0.0000           | 0.0000          | 0.0000            | 0.000000 |

Table: Element Forces - Frames, Part 1 of 2

| Table: Element Forces - Frames, Part 1 of 2 |              |            |           |            |            |            |             |              |
|---------------------------------------------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| Frame                                       | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
| 1                                           | 0.00000      | 4C26TB     | LinStatic | -1.438E-14 | -0.2110    | 4.879E-15  | -0.83234    | 6.257E-15    |
| 1                                           | 0.33659      | 4C26TB     | LinStatic | -1.438E-14 | -0.2110    | 4.879E-15  | -0.83234    | 4.615E-15    |
| 1                                           | 0.67318      | 4C26TB     | LinStatic | -1.438E-14 | -0.2110    | 4.879E-15  | -0.83234    | 2.973E-15    |
| 1                                           | 1.00977      | 4C26TB     | LinStatic | -1.438E-14 | -0.2110    | 4.879E-15  | -0.83234    | 1.330E-15    |
| 2                                           | 0.00000      | 4C26TB     | LinStatic | -1.002E-14 | -0.4663    | 5.166E-15  | -1.07463    | 6.205E-15    |
| 2                                           | 0.33659      | 4C26TB     | LinStatic | -1.002E-14 | -0.4663    | 5.166E-15  | -1.07463    | 4.466E-15    |
| 2                                           | 0.67318      | 4C26TB     | LinStatic | -1.002E-14 | -0.4663    | 5.166E-15  | -1.07463    | 2.727E-15    |
| 2                                           | 1.00977      | 4C26TB     | LinStatic | -1.002E-14 | -0.4663    | 5.166E-15  | -1.07463    | 9.886E-16    |
| 3                                           | 0.00000      | 4C26TB     | LinStatic | -6.236E-15 | -0.5272    | 5.205E-15  | -1.10739    | 5.230E-15    |
| 3                                           | 0.33659      | 4C26TB     | LinStatic | -6.236E-15 | -0.5272    | 5.205E-15  | -1.10739    | 3.478E-15    |
| 3                                           | 0.67318      | 4C26TB     | LinStatic | -6.236E-15 | -0.5272    | 5.205E-15  | -1.10739    | 1.726E-15    |
| 3                                           | 1.00977      | 4C26TB     | LinStatic | -6.236E-15 | -0.5272    | 5.205E-15  | -1.10739    | -2.599E-17   |
| 4                                           | 0.00000      | 4C26TB     | LinStatic | -2.831E-15 | -0.5235    | 5.032E-15  | -1.05451    | 3.818E-15    |
| 4                                           | 0.33659      | 4C26TB     | LinStatic | -2.831E-15 | -0.5235    | 5.032E-15  | -1.05451    | 2.124E-15    |
| 4                                           | 0.67318      | 4C26TB     | LinStatic | -2.831E-15 | -0.5235    | 5.032E-15  | -1.05451    | 4.300E-16    |
| 4                                           | 1.00977      | 4C26TB     | LinStatic | -2.831E-15 | -0.5235    | 5.032E-15  | -1.05451    | -1.264E-15   |
| 5                                           | 0.00000      | 4C26TB     | LinStatic | 2.275E-16  | -0.4920    | 4.683E-15  | -0.95702    | 2.231E-15    |
| 5                                           | 0.33659      | 4C26TB     | LinStatic | 2.275E-16  | -0.4920    | 4.683E-15  | -0.95702    | 6.547E-16    |
| 5                                           | 0.67318      | 4C26TB     | LinStatic | 2.275E-16  | -0.4920    | 4.683E-15  | -0.95702    | -9.214E-16   |
| 5                                           | 1.00977      | 4C26TB     | LinStatic | 2.275E-16  | -0.4920    | 4.683E-15  | -0.95702    | -2.498E-15   |
| 6                                           | 0.00000      | 4C26TB     | LinStatic | 2.915E-15  | -0.4392    | 4.198E-15  | -0.82920    | 6.321E-16    |
| 6                                           | 0.33659      | 4C26TB     | LinStatic | 2.915E-15  | -0.4392    | 4.198E-15  | -0.82920    | -7.811E-16   |
| 6                                           | 0.67318      | 4C26TB     | LinStatic | 2.915E-15  | -0.4392    | 4.198E-15  | -0.82920    | -2.194E-15   |
| 6                                           | 1.00977      | 4C26TB     | LinStatic | 2.915E-15  | -0.4392    | 4.198E-15  | -0.82920    | -3.607E-15   |
| 7                                           | 0.00000      | 4C26TB     | LinStatic | 5.209E-15  | -0.3646    | 3.625E-15  | -0.67738    | -8.778E-16   |
| 7                                           | 0.33659      | 4C26TB     | LinStatic | 5.209E-15  | -0.3646    | 3.625E-15  | -0.67738    | -2.098E-15   |
| 7                                           | 0.67318      | 4C26TB     | LinStatic | 5.209E-15  | -0.3646    | 3.625E-15  | -0.67738    | -3.318E-15   |
| 7                                           | 1.00977      | 4C26TB     | LinStatic | 5.209E-15  | -0.3646    | 3.625E-15  | -0.67738    | -4.538E-15   |
| 8                                           | 0.00000      | 4C26TB     | LinStatic | 7.101E-15  | -0.2702    | 2.999E-15  | -0.50713    | -2.239E-15   |
| 8                                           | 0.33659      | 4C26TB     | LinStatic | 7.101E-15  | -0.2702    | 2.999E-15  | -0.50713    | -3.249E-15   |
| 8                                           | 0.67318      | 4C26TB     | LinStatic | 7.101E-15  | -0.2702    | 2.999E-15  | -0.50713    | -4.258E-15   |
| 8                                           | 1.00977      | 4C26TB     | LinStatic | 7.101E-15  | -0.2702    | 2.999E-15  | -0.50713    | -5.268E-15   |
| 9                                           | 0.00000      | 4C26TB     | LinStatic | 8.589E-15  | -0.1612    | 2.349E-15  | -0.32398    | -3.417E-15   |
| 9                                           | 0.33659      | 4C26TB     | LinStatic | 8.589E-15  | -0.1612    | 2.349E-15  | -0.32398    | -4.208E-15   |
| 9                                           | 0.67318      | 4C26TB     | LinStatic | 8.589E-15  | -0.1612    | 2.349E-15  | -0.32398    | -4.998E-15   |
| 9                                           | 1.00977      | 4C26TB     | LinStatic | 8.589E-15  | -0.1612    | 2.349E-15  | -0.32398    | -5.789E-15   |
| 10                                          | 0.00000      | 4C26TB     | LinStatic | 9.673E-15  | -0.0435    | 1.694E-15  | -0.13280    | -4.392E-15   |
| 10                                          | 0.33659      | 4C26TB     | LinStatic | 9.673E-15  | -0.0435    | 1.694E-15  | -0.13280    | -4.962E-15   |
| 10                                          | 0.67318      | 4C26TB     | LinStatic | 9.673E-15  | -0.0435    | 1.694E-15  | -0.13280    | -5.532E-15   |
| 10                                          | 1.00977      | 4C26TB     | LinStatic | 9.673E-15  | -0.0435    | 1.694E-15  | -0.13280    | -6.103E-15   |
| 11                                          | 0.00000      | 4C26TB     | LinStatic | 1.037E-14  | 0.0772     | 1.048E-15  | 0.06222     | -5.161E-15   |
| 11                                          | 0.33659      | 4C26TB     | LinStatic | 1.037E-14  | 0.0772     | 1.048E-15  | 0.06222     | -5.514E-15   |
| 11                                          | 0.67318      | 4C26TB     | LinStatic | 1.037E-14  | 0.0772     | 1.048E-15  | 0.06222     | -5.867E-15   |
| 11                                          | 1.00977      | 4C26TB     | LinStatic | 1.037E-14  | 0.0772     | 1.048E-15  | 0.06222     | -6.219E-15   |
| 12                                          | 0.00000      | 4C26TB     | LinStatic | 1.068E-14  | 0.1939     | 4.181E-16  | 0.25656     | -5.729E-15   |
| 12                                          | 0.33659      | 4C26TB     | LinStatic | 1.068E-14  | 0.1939     | 4.181E-16  | 0.25656     | -5.869E-15   |
| 12                                          | 0.67318      | 4C26TB     | LinStatic | 1.068E-14  | 0.1939     | 4.181E-16  | 0.25656     | -6.010E-15   |
| 12                                          | 1.00977      | 4C26TB     | LinStatic | 1.068E-14  | 0.1939     | 4.181E-16  | 0.25656     | -6.151E-15   |
| 13                                          | 0.00000      | 4C26TB     | LinStatic | 1.063E-14  | 0.3006     | -1.945E-16 | 0.44585     | -6.101E-15   |
| 13                                          | 0.33659      | 4C26TB     | LinStatic | 1.063E-14  | 0.3006     | -1.945E-16 | 0.44585     | -6.036E-15   |
| 13                                          | 0.67318      | 4C26TB     | LinStatic | 1.063E-14  | 0.3006     | -1.945E-16 | 0.44585     | -5.971E-15   |
| 13                                          | 1.00977      | 4C26TB     | LinStatic | 1.063E-14  | 0.3006     | -1.945E-16 | 0.44585     | -5.905E-15   |
| 14                                          | 0.00000      | 4C26TB     | LinStatic | 1.024E-14  | 0.3909     | -7.934E-16 | 0.62535     | -6.287E-15   |
| 14                                          | 0.33659      | 4C26TB     | LinStatic | 1.024E-14  | 0.3909     | -7.934E-16 | 0.62535     | -6.020E-15   |

| Table: Element Forces - Frames, Part 1 of 2 |              |            |           |            |            |            |             |              |
|---------------------------------------------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| Frame                                       | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
| 14                                          | 0.67318      | 4C26TB     | LinStatic | 1.024E-14  | 0.3909     | -7.934E-16 | 0.62535     | -5.753E-15   |
| 14                                          | 1.00977      | 4C26TB     | LinStatic | 1.024E-14  | 0.3909     | -7.934E-16 | 0.62535     | -5.486E-15   |
| 15                                          | 0.00000      | 4C26TB     | LinStatic | 9.522E-15  | 0.4589     | -1.388E-15 | 0.78937     | -6.287E-15   |
| 15                                          | 0.33659      | 4C26TB     | LinStatic | 9.522E-15  | 0.4589     | -1.388E-15 | 0.78937     | -5.820E-15   |
| 15                                          | 0.67318      | 4C26TB     | LinStatic | 9.522E-15  | 0.4589     | -1.388E-15 | 0.78937     | -5.353E-15   |
| 15                                          | 1.00977      | 4C26TB     | LinStatic | 9.522E-15  | 0.4589     | -1.388E-15 | 0.78937     | -4.886E-15   |
| 16                                          | 0.00000      | 4C26TB     | LinStatic | 8.476E-15  | 0.4999     | -1.988E-15 | 0.93146     | -6.086E-15   |
| 16                                          | 0.33659      | 4C26TB     | LinStatic | 8.476E-15  | 0.4999     | -1.988E-15 | 0.93146     | -5.417E-15   |
| 16                                          | 0.67318      | 4C26TB     | LinStatic | 8.476E-15  | 0.4999     | -1.988E-15 | 0.93146     | -4.747E-15   |
| 16                                          | 1.00977      | 4C26TB     | LinStatic | 8.476E-15  | 0.4999     | -1.988E-15 | 0.93146     | -4.078E-15   |
| 17                                          | 0.00000      | 4C26TB     | LinStatic | 7.122E-15  | 0.5117     | -2.605E-15 | 1.04380     | -5.655E-15   |
| 17                                          | 0.33659      | 4C26TB     | LinStatic | 7.122E-15  | 0.5117     | -2.605E-15 | 1.04380     | -4.778E-15   |
| 17                                          | 0.67318      | 4C26TB     | LinStatic | 7.122E-15  | 0.5117     | -2.605E-15 | 1.04380     | -3.902E-15   |
| 17                                          | 1.00977      | 4C26TB     | LinStatic | 7.122E-15  | 0.5117     | -2.605E-15 | 1.04380     | -3.025E-15   |
| 18                                          | 0.00000      | 4C26TB     | LinStatic | 5.498E-15  | 0.4855     | -3.249E-15 | 1.11058     | -4.947E-15   |
| 18                                          | 0.33659      | 4C26TB     | LinStatic | 5.498E-15  | 0.4855     | -3.249E-15 | 1.11058     | -3.853E-15   |
| 18                                          | 0.67318      | 4C26TB     | LinStatic | 5.498E-15  | 0.4855     | -3.249E-15 | 1.11058     | -2.760E-15   |
| 18                                          | 1.00977      | 4C26TB     | LinStatic | 5.498E-15  | 0.4855     | -3.249E-15 | 1.11058     | -1.666E-15   |
| 19                                          | 0.00000      | 4C26TB     | LinStatic | 3.682E-15  | 0.3833     | -3.945E-15 | 1.08862     | -3.883E-15   |
| 19                                          | 0.33659      | 4C26TB     | LinStatic | 3.682E-15  | 0.3833     | -3.945E-15 | 1.08862     | -2.555E-15   |
| 19                                          | 0.67318      | 4C26TB     | LinStatic | 3.682E-15  | 0.3833     | -3.945E-15 | 1.08862     | -1.227E-15   |
| 19                                          | 1.00977      | 4C26TB     | LinStatic | 3.682E-15  | 0.3833     | -3.945E-15 | 1.08862     | 1.009E-16    |
| 20                                          | 0.00000      | 4C26TB     | LinStatic | 1.794E-15  | 0.0715     | -4.744E-15 | 0.84908     | -2.318E-15   |
| 20                                          | 0.33659      | 4C26TB     | LinStatic | 1.794E-15  | 0.0715     | -4.744E-15 | 0.84908     | -7.209E-16   |
| 20                                          | 0.67318      | 4C26TB     | LinStatic | 1.794E-15  | 0.0715     | -4.744E-15 | 0.84908     | 8.760E-16    |
| 20                                          | 1.00977      | 4C26TB     | LinStatic | 1.794E-15  | 0.0715     | -4.744E-15 | 0.84908     | 2.473E-15    |
| 21                                          | 0.00000      | 4C26TB     | LinStatic | -7.059E-15 | -4.5718    | 6.831E-15  | -1.64196    | 8.281E-15    |
| 21                                          | 0.33659      | 4C26TB     | LinStatic | -7.059E-15 | -4.5718    | 6.831E-15  | -1.64196    | 5.982E-15    |
| 21                                          | 0.67318      | 4C26TB     | LinStatic | -7.059E-15 | -4.5718    | 6.831E-15  | -1.64196    | 3.682E-15    |
| 21                                          | 1.00977      | 4C26TB     | LinStatic | -7.059E-15 | -4.5718    | 6.831E-15  | -1.64196    | 1.383E-15    |
| 22                                          | 0.00000      | 4C26TB     | LinStatic | -5.488E-15 | -4.4438    | 6.753E-15  | -2.09637    | 8.643E-15    |
| 22                                          | 0.33659      | 4C26TB     | LinStatic | -5.488E-15 | -4.4438    | 6.753E-15  | -2.09637    | 6.370E-15    |
| 22                                          | 0.67318      | 4C26TB     | LinStatic | -5.488E-15 | -4.4438    | 6.753E-15  | -2.09637    | 4.097E-15    |
| 22                                          | 1.00977      | 4C26TB     | LinStatic | -5.488E-15 | -4.4438    | 6.753E-15  | -2.09637    | 1.824E-15    |
| 23                                          | 0.00000      | 4C26TB     | LinStatic | -3.451E-15 | -4.1706    | 6.482E-15  | -2.13095    | 8.224E-15    |
| 23                                          | 0.33659      | 4C26TB     | LinStatic | -3.451E-15 | -4.1706    | 6.482E-15  | -2.13095    | 6.042E-15    |
| 23                                          | 0.67318      | 4C26TB     | LinStatic | -3.451E-15 | -4.1706    | 6.482E-15  | -2.13095    | 3.860E-15    |
| 23                                          | 1.00977      | 4C26TB     | LinStatic | -3.451E-15 | -4.1706    | 6.482E-15  | -2.13095    | 1.679E-15    |
| 24                                          | 0.00000      | 4C26TB     | LinStatic | -1.414E-15 | -3.7584    | 5.991E-15  | -1.98916    | 7.300E-15    |
| 24                                          | 0.33659      | 4C26TB     | LinStatic | -1.414E-15 | -3.7584    | 5.991E-15  | -1.98916    | 5.284E-15    |
| 24                                          | 0.67318      | 4C26TB     | LinStatic | -1.414E-15 | -3.7584    | 5.991E-15  | -1.98916    | 3.267E-15    |
| 24                                          | 1.00977      | 4C26TB     | LinStatic | -1.414E-15 | -3.7584    | 5.991E-15  | -1.98916    | 1.251E-15    |
| 25                                          | 0.00000      | 4C26TB     | LinStatic | 3.983E-16  | -3.2397    | 5.317E-15  | -1.75943    | 6.127E-15    |
| 25                                          | 0.33659      | 4C26TB     | LinStatic | 3.983E-16  | -3.2397    | 5.317E-15  | -1.75943    | 4.338E-15    |
| 25                                          | 0.67318      | 4C26TB     | LinStatic | 3.983E-16  | -3.2397    | 5.317E-15  | -1.75943    | 2.548E-15    |
| 25                                          | 1.00977      | 4C26TB     | LinStatic | 3.983E-16  | -3.2397    | 5.317E-15  | -1.75943    | 7.583E-16    |
| 26                                          | 0.00000      | 4C26TB     | LinStatic | 1.897E-15  | -2.6626    | 4.525E-15  | -1.48506    | 4.895E-15    |
| 26                                          | 0.33659      | 4C26TB     | LinStatic | 1.897E-15  | -2.6626    | 4.525E-15  | -1.48506    | 3.372E-15    |
| 26                                          | 0.67318      | 4C26TB     | LinStatic | 1.897E-15  | -2.6626    | 4.525E-15  | -1.48506    | 1.849E-15    |
| 26                                          | 1.00977      | 4C26TB     | LinStatic | 1.897E-15  | -2.6626    | 4.525E-15  | -1.48506    | 3.261E-16    |
| 27                                          | 0.00000      | 4C26TB     | LinStatic | 3.091E-15  | -2.0737    | 3.686E-15  | -1.19434    | 3.698E-15    |
| 27                                          | 0.33659      | 4C26TB     | LinStatic | 3.091E-15  | -2.0737    | 3.686E-15  | -1.19434    | 2.457E-15    |
| 27                                          | 0.67318      | 4C26TB     | LinStatic | 3.091E-15  | -2.0737    | 3.686E-15  | -1.19434    | 1.217E-15    |
| 27                                          | 1.00977      | 4C26TB     | LinStatic | 3.091E-15  | -2.0737    | 3.686E-15  | -1.19434    | -2.370E-17   |
| 28                                          | 0.00000      | 4C26TB     | LinStatic | 4.025E-15  | -1.4862    | 2.838E-15  | -0.89248    | 2.563E-15    |
| 28                                          | 0.33659      | 4C26TB     | LinStatic | 4.025E-15  | -1.4862    | 2.838E-15  | -0.89248    | 1.608E-15    |
| 28                                          | 0.67318      | 4C26TB     | LinStatic | 4.025E-15  | -1.4862    | 2.838E-15  | -0.89248    | 6.528E-16    |
| 28                                          | 1.00977      | 4C26TB     | LinStatic | 4.025E-15  | -1.4862    | 2.838E-15  | -0.89248    | -3.02        |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 29    | 0.33659      | 4C26TB     | LinStatic | 4.724E-15  | -0.8976    | 2.003E-15  | -0.57814    | 8.536E-16    |
| 29    | 0.67318      | 4C26TB     | LinStatic | 4.724E-15  | -0.8976    | 2.003E-15  | -0.57814    | 1.794E-16    |
| 29    | 1.00977      | 4C26TB     | LinStatic | 4.724E-15  | -0.8976    | 2.003E-15  | -0.57814    | -4.948E-16   |
| 30    | 0.00000      | 4C26TB     | LinStatic | 5.201E-15  | -0.3064    | 1.197E-15  | -0.25345    | 6.253E-16    |
| 30    | 0.33659      | 4C26TB     | LinStatic | 5.201E-15  | -0.3064    | 1.197E-15  | -0.25345    | 2.222E-16    |
| 30    | 0.67318      | 4C26TB     | LinStatic | 5.201E-15  | -0.3064    | 1.197E-15  | -0.25345    | -1.808E-16   |
| 30    | 1.00977      | 4C26TB     | LinStatic | 5.201E-15  | -0.3064    | 1.197E-15  | -0.25345    | -5.839E-16   |
| 31    | 0.00000      | 4C26TB     | LinStatic | 5.478E-15  | 0.2818     | 4.390E-16  | 0.07340     | -1.477E-16   |
| 31    | 0.33659      | 4C26TB     | LinStatic | 5.478E-15  | 0.2818     | 4.390E-16  | 0.07340     | -2.955E-16   |
| 31    | 0.67318      | 4C26TB     | LinStatic | 5.478E-15  | 0.2818     | 4.390E-16  | 0.07340     | -4.432E-16   |
| 31    | 1.00977      | 4C26TB     | LinStatic | 5.478E-15  | 0.2818     | 4.390E-16  | 0.07340     | -5.910E-16   |
| 32    | 0.00000      | 4C26TB     | LinStatic | 5.574E-15  | 0.8721     | -2.752E-16 | 0.40156     | -8.097E-16   |
| 32    | 0.33659      | 4C26TB     | LinStatic | 5.574E-15  | 0.8721     | -2.752E-16 | 0.40156     | -7.171E-16   |
| 32    | 0.67318      | 4C26TB     | LinStatic | 5.574E-15  | 0.8721     | -2.752E-16 | 0.40156     | -6.244E-16   |
| 32    | 1.00977      | 4C26TB     | LinStatic | 5.574E-15  | 0.8721     | -2.752E-16 | 0.40156     | -5.318E-16   |
| 33    | 0.00000      | 4C26TB     | LinStatic | 5.497E-15  | 1.4634     | -9.424E-16 | 0.72543     | -1.361E-15   |
| 33    | 0.33659      | 4C26TB     | LinStatic | 5.497E-15  | 1.4634     | -9.424E-16 | 0.72543     | -1.044E-15   |
| 33    | 0.67318      | 4C26TB     | LinStatic | 5.497E-15  | 1.4634     | -9.424E-16 | 0.72543     | -7.267E-16   |
| 33    | 1.00977      | 4C26TB     | LinStatic | 5.497E-15  | 1.4634     | -9.424E-16 | 0.72543     | -4.095E-16   |
| 34    | 0.00000      | 4C26TB     | LinStatic | 5.265E-15  | 2.0535     | -1.562E-15 | 1.03926     | -1.830E-15   |
| 34    | 0.33659      | 4C26TB     | LinStatic | 5.265E-15  | 2.0535     | -1.562E-15 | 1.03926     | -1.304E-15   |
| 34    | 0.67318      | 4C26TB     | LinStatic | 5.265E-15  | 2.0535     | -1.562E-15 | 1.03926     | -7.788E-16   |
| 34    | 1.00977      | 4C26TB     | LinStatic | 5.265E-15  | 2.0535     | -1.562E-15 | 1.03926     | -2.532E-16   |
| 35    | 0.00000      | 4C26TB     | LinStatic | 4.893E-15  | 2.6465     | -2.144E-15 | 1.34341     | -2.244E-15   |
| 35    | 0.33659      | 4C26TB     | LinStatic | 4.893E-15  | 2.6465     | -2.144E-15 | 1.34341     | -1.523E-15   |
| 35    | 0.67318      | 4C26TB     | LinStatic | 4.893E-15  | 2.6465     | -2.144E-15 | 1.34341     | -8.008E-16   |
| 35    | 1.00977      | 4C26TB     | LinStatic | 4.893E-15  | 2.6465     | -2.144E-15 | 1.34341     | -7.899E-17   |
| 36    | 0.00000      | 4C26TB     | LinStatic | 4.367E-15  | 3.2381     | -2.703E-15 | 1.63505     | -2.576E-15   |
| 36    | 0.33659      | 4C26TB     | LinStatic | 4.367E-15  | 3.2381     | -2.703E-15 | 1.63505     | -1.666E-15   |
| 36    | 0.67318      | 4C26TB     | LinStatic | 4.367E-15  | 3.2381     | -2.703E-15 | 1.63505     | -7.558E-16   |
| 36    | 1.00977      | 4C26TB     | LinStatic | 4.367E-15  | 3.2381     | -2.703E-15 | 1.63505     | 1.542E-16    |
| 37    | 0.00000      | 4C26TB     | LinStatic | 3.675E-15  | 3.7961     | -3.228E-15 | 1.89150     | -2.757E-15   |
| 37    | 0.33659      | 4C26TB     | LinStatic | 3.675E-15  | 3.7961     | -3.228E-15 | 1.89150     | -1.671E-15   |
| 37    | 0.67318      | 4C26TB     | LinStatic | 3.675E-15  | 3.7961     | -3.228E-15 | 1.89150     | -5.839E-16   |
| 37    | 1.00977      | 4C26TB     | LinStatic | 3.675E-15  | 3.7961     | -3.228E-15 | 1.89150     | 5.027E-16    |
| 38    | 0.00000      | 4C26TB     | LinStatic | 2.837E-15  | 4.2755     | -3.701E-15 | 2.06814     | -2.714E-15   |
| 38    | 0.33659      | 4C26TB     | LinStatic | 2.837E-15  | 4.2755     | -3.701E-15 | 2.06814     | -1.469E-15   |
| 38    | 0.67318      | 4C26TB     | LinStatic | 2.837E-15  | 4.2755     | -3.701E-15 | 2.06814     | -2.231E-16   |
| 38    | 1.00977      | 4C26TB     | LinStatic | 2.837E-15  | 4.2755     | -3.701E-15 | 2.06814     | 1.023E-15    |
| 39    | 0.00000      | 4C26TB     | LinStatic | 1.906E-15  | 4.6355     | -4.091E-15 | 2.06795     | -2.349E-15   |
| 39    | 0.33659      | 4C26TB     | LinStatic | 1.906E-15  | 4.6355     | -4.091E-15 | 2.06795     | -9.723E-16   |
| 39    | 0.67318      | 4C26TB     | LinStatic | 1.906E-15  | 4.6355     | -4.091E-15 | 2.06795     | 4.045E-16    |
| 39    | 1.00977      | 4C26TB     | LinStatic | 1.906E-15  | 4.6355     | -4.091E-15 | 2.06795     | 1.781E-15    |
| 40    | 0.00000      | 4C26TB     | LinStatic | 9.453E-16  | 4.8678     | -4.359E-15 | 1.63930     | -1.505E-15   |
| 40    | 0.33659      | 4C26TB     | LinStatic | 9.453E-16  | 4.8678     | -4.359E-15 | 1.63930     | -3.839E-17   |
| 40    | 0.67318      | 4C26TB     | LinStatic | 9.453E-16  | 4.8678     | -4.359E-15 | 1.63930     | 1.429E-15    |
| 40    | 1.00977      | 4C26TB     | LinStatic | 9.453E-16  | 4.8678     | -4.359E-15 | 1.63930     | 2.896E-15    |
| 41    | 0.00000      | 4C26TB     | LinStatic | -2.540E-15 | -9.1712    | 7.661E-15  | -1.35643    | 9.522E-15    |
| 41    | 0.33659      | 4C26TB     | LinStatic | -2.540E-15 | -9.1712    | 7.661E-15  | -1.35643    | 6.943E-15    |
| 41    | 0.67318      | 4C26TB     | LinStatic | -2.540E-15 | -9.1712    | 7.661E-15  | -1.35643    | 4.365E-15    |
| 41    | 1.00977      | 4C26TB     | LinStatic | -2.540E-15 | -9.1712    | 7.661E-15  | -1.35643    | 1.786E-15    |
| 42    | 0.00000      | 4C26TB     | LinStatic | -9.243E-16 | -9.2032    | 7.533E-15  | -1.74591    | 1.081E-14    |
| 42    | 0.33659      | 4C26TB     | LinStatic | -9.243E-16 | -9.2032    | 7.533E-15  | -1.74591    | 8.271E-15    |
| 42    | 0.67318      | 4C26TB     | LinStatic | -9.243E-16 | -9.2032    | 7.533E-15  | -1.74591    | 5.735E-15    |
| 42    | 1.00977      | 4C26TB     | LinStatic | -9.243E-16 | -9.2032    | 7.533E-15  | -1.74591    | 3.200E-15    |
| 43    | 0.00000      | 4C26TB     | LinStatic | 2.960E-16  | -9.4315    | 7.051E-15  | -1.78477    | 1.110E-14    |
| 43    | 0.33659      | 4C26TB     | LinStatic | 2.960E-16  | -9.4315    | 7.051E-15  | -1.78477    | 8.731E-15    |
| 43    | 0.67318      | 4C26TB     | LinStatic | 2.960E-16  | -9.4315    | 7.051E-15  | -1.78477    | 6.357E-15    |
| 43    | 1.00977      | 4C26TB     | LinStatic | 2.960E-16  | -9.4315    | 7.051E-15  | -1.78477    | 3.984E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2      | V3         | T        | M2        |
|-------|---------|------------|-----------|------------|---------|------------|----------|-----------|
|       | m       |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m    |
| 44    | 0.00000 | 4C26TB     | LinStatic | 1.018E-15  | -7.4972 | 6.288E-15  | -1.67097 | 1.068E-14 |
| 44    | 0.33659 | 4C26TB     | LinStatic | 1.018E-15  | -7.4972 | 6.288E-15  | -1.67097 | 8.563E-15 |
| 44    | 0.67318 | 4C26TB     | LinStatic | 1.018E-15  | -7.4972 | 6.288E-15  | -1.67097 | 6.446E-15 |
| 44    | 1.00977 | 4C26TB     | LinStatic | 1.018E-15  | -7.4972 | 6.288E-15  | -1.67097 | 4.330E-15 |
| 45    | 0.00000 | 4C26TB     | LinStatic | 1.278E-15  | -4.7973 | 5.357E-15  | -1.48279 | 9.762E-15 |
| 45    | 0.33659 | 4C26TB     | LinStatic | 1.278E-15  | -4.7973 | 5.357E-15  | -1.48279 | 7.959E-15 |
| 45    | 0.67318 | 4C26TB     | LinStatic | 1.278E-15  | -4.7973 | 5.357E-15  | -1.48279 | 6.156E-15 |
| 45    | 1.00977 | 4C26TB     | LinStatic | 1.278E-15  | -4.7973 | 5.357E-15  | -1.48279 | 4.353E-15 |
| 46    | 0.00000 | 4C26TB     | LinStatic | 1.201E-15  | -1.2601 | 4.357E-15  | -1.25910 | 8.530E-15 |
| 46    | 0.33659 | 4C26TB     | LinStatic | 1.201E-15  | -1.2601 | 4.357E-15  | -1.25910 | 7.063E-15 |
| 46    | 0.67318 | 4C26TB     | LinStatic | 1.201E-15  | -1.2601 | 4.357E-15  | -1.25910 | 5.597E-15 |
| 46    | 1.00977 | 4C26TB     | LinStatic | 1.201E-15  | -1.2601 | 4.357E-15  | -1.25910 | 4.130E-15 |
| 47    | 0.00000 | 4C26TB     | LinStatic | 9.388E-16  | -1.7548 | 3.350E-15  | -1.02345 | 7.257E-15 |
| 47    | 0.33659 | 4C26TB     | LinStatic | 9.388E-16  | -1.7548 | 3.350E-15  | -1.02345 | 6.129E-15 |
| 47    | 0.67318 | 4C26TB     | LinStatic | 9.388E-16  | -1.7548 | 3.350E-15  | -1.02345 | 5.002E-15 |
| 47    | 1.00977 | 4C26TB     | LinStatic | 9.388E-16  | -1.7548 | 3.350E-15  | -1.02345 | 3.874E-15 |
| 48    | 0.00000 | 4C26TB     | LinStatic | 6.177E-16  | -2.2305 | 2.393E-15  | -0.78060 | 6.191E-15 |
| 48    | 0.33659 | 4C26TB     | LinStatic | 6.177E-16  | -2.2305 | 2.393E-15  | -0.78060 | 5.386E-15 |
| 48    | 0.67318 | 4C26TB     | LinStatic | 6.177E-16  | -2.2305 | 2.393E-15  | -0.78060 | 4.581E-15 |
| 48    | 1.00977 | 4C26TB     | LinStatic | 6.177E-16  | -2.2305 | 2.393E-15  | -0.78060 | 3.775E-15 |
| 49    | 0.00000 | 4C26TB     | LinStatic | 3.005E-16  | -1.6929 | 1.516E-15  | -0.52844 | 5.340E-15 |
| 49    | 0.33659 | 4C26TB     | LinStatic | 3.005E-16  | -1.6929 | 1.516E-15  | -0.52844 | 4.830E-15 |
| 49    | 0.67318 | 4C26TB     | LinStatic | 3.005E-16  | -1.6929 | 1.516E-15  | -0.52844 | 4.320E-15 |
| 49    | 1.00977 | 4C26TB     | LinStatic | 3.005E-16  | -1.6929 | 1.516E-15  | -0.52844 | 3.810E-15 |
| 50    | 0.00000 | 4C26TB     | LinStatic | 1.732E-17  | 0.3505  | 7.267E-16  | -0.26971 | 4.594E-15 |
| 50    | 0.33659 | 4C26TB     | LinStatic | 1.732E-17  | 0.3505  | 7.267E-16  | -0.26971 | 4.349E-15 |
| 50    | 0.67318 | 4C26TB     | LinStatic | 1.732E-17  | 0.3505  | 7.267E-16  | -0.26971 | 4.105E-15 |
| 50    | 1.00977 | 4C26TB     | LinStatic | 1.732E-17  | 0.3505  | 7.267E-16  | -0.26971 | 3.860E-15 |
| 51    | 0.00000 | 4C26TB     | LinStatic | -2.042E-16 | -0.0957 | 8.769E-18  | -0.00902 | 3.929E-15 |
| 51    | 0.33659 | 4C26TB     | LinStatic | -2.042E-16 | -0.0957 | 8.769E-18  | -0.00902 | 3.926E-15 |
| 51    | 0.67318 | 4C26TB     | LinStatic | -2.042E-16 | -0.0957 | 8.769E-18  | -0.00902 | 3.923E-15 |
| 51    | 1.00977 | 4C26TB     | LinStatic | -2.042E-16 | -0.0957 | 8.769E-18  | -0.00902 | 3.920E-15 |
| 52    | 0.00000 | 4C26TB     | LinStatic | -3.591E-16 | 1.2597  | -6.406E-16 | 0.25430  | 3.353E-15 |
| 52    | 0.33659 | 4C26TB     | LinStatic | -3.591E-16 | 1.2597  | -6.406E-16 | 0.25430  | 3.569E-15 |
| 52    | 0.67318 | 4C26TB     | LinStatic | -3.591E-16 | 1.2597  | -6.406E-16 | 0.25430  | 3.784E-15 |
| 52    | 1.00977 | 4C26TB     | LinStatic | -3.591E-16 | 1.2597  | -6.406E-16 | 0.25430  | 4.000E-15 |
| 53    | 0.00000 | 4C26TB     | LinStatic | -4.520E-16 | 2.5118  | -1.230E-15 | 0.51409  | 2.811E-15 |
| 53    | 0.33659 | 4C26TB     | LinStatic | -4.520E-16 | 2.5118  | -1.230E-15 | 0.51409  | 3.225E-15 |
| 53    | 0.67318 | 4C26TB     | LinStatic | -4.520E-16 | 2.5118  | -1.230E-15 | 0.51409  | 3.639E-15 |
| 53    | 1.00977 | 4C26TB     | LinStatic | -4.520E-16 | 2.5118  | -1.230E-15 | 0.51409  | 4.053E-15 |
| 54    | 0.00000 | 4C26TB     | LinStatic | -4.771E-16 | 2.0618  | -1.770E-15 | 0.76803  | 2.347E-15 |
| 54    | 0.33659 | 4C26TB     | LinStatic | -4.771E-16 | 2.0618  | -1.770E-15 | 0.76803  | 2.942E-15 |
| 54    | 0.67318 | 4C26TB     | LinStatic | -4.771E-16 | 2.0618  | -1.770E-15 | 0.76803  | 3.538E-15 |
| 54    | 1.00977 | 4C26TB     | LinStatic | -4.771E-16 | 2.0618  | -1.770E-15 | 0.76803  | 4.134E-15 |
| 55    | 0.00000 | 4C26TB     | LinStatic | -4.463E-16 | 1.6025  | -2.252E-15 | 1.01811  | 1.993E-15 |
| 55    | 0.33659 | 4C26TB     | LinStatic | -4.463E-16 | 1.6025  | -2.252E-15 | 1.01811  | 2.751E-15 |
| 55    | 0.67318 | 4C26TB     | LinStatic | -4.463E-16 | 1.6025  | -2.252E-15 | 1.01811  | 3.509E-15 |
| 55    | 1.00977 | 4C26TB     | LinStatic | -4.463E-16 | 1.6025  | -2.252E-15 | 1.01811  | 4.267E-15 |
| 56    | 0.00000 | 4C26TB     | LinStatic | -4.017E-16 | 4.2356  | -2.664E-15 | 1.26357  | 1.613E-15 |
| 56    | 0.33659 | 4C26TB     | LinStatic | -4.017E-16 | 4.2356  | -2.664E-15 | 1.26357  | 2.510E-15 |
| 56    | 0.67318 | 4C26TB     | LinStatic | -4.017E-16 | 4.2356  | -2.664E-15 | 1.26357  | 3.406E-15 |
| 56    | 1.00977 | 4C26TB     | LinStatic | -4.017E-16 | 4.2356  | -2.664E-15 | 1.26357  | 4.303E-15 |
| 57    | 0.00000 | 4C26TB     | LinStatic | -3.725E-16 | 6.9387  | -3.005E-15 | 1.48109  | 1.056E-15 |
| 57    | 0.33659 | 4C26TB     | LinStatic | -3.725E-16 | 6.9387  | -3.005E-15 | 1.48109  | 2.067E-15 |
| 57    | 0.67318 | 4C26TB     | LinStatic | -3.725E-16 | 6.9387  | -3.005E-15 | 1.48109  | 3.079E-15 |
| 57    | 1.00977 | 4C26TB     | LinStatic | -3.725E-16 | 6.9387  | -3.005E-15 | 1.48109  | 4.090E-15 |
| 58    | 0.00000 | 4C26TB     | LinStatic | -3.444E-16 | 9.8123  | -3.277E-15 | 1.63155  | 3.299E-16 |
| 58    | 0.33659 | 4C26TB     | LinStatic | -3.444E-16 | 9.8123  | -3.277E-15 | 1.63155  | 1.433E-15 |
| 58    | 0.67318 | 4C26TB     | LinStatic | -3.444E-16 | 9.8123  | -3.277E-15 | 1.63155  | 2.536E-15 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 58    | 1.00977      | 4C26TB     | LinStatic | -3.444E-16 | 9.8123     | -3.277E-15 | 1.63155     | 3.639E-15    |
| 59    | 0.00000      | 4C26TB     | LinStatic | -2.826E-16 | 9.5720     | -3.493E-15 | 1.63770     | -3.316E-16   |
| 59    | 0.33659      | 4C26TB     | LinStatic | -2.826E-16 | 9.5720     | -3.493E-15 | 1.63770     | 8.443E-16    |
| 59    | 0.67318      | 4C26TB     | LinStatic | -2.826E-16 | 9.5720     | -3.493E-15 | 1.63770     | 2.020E-15    |
| 59    | 1.00977      | 4C26TB     | LinStatic | -2.826E-16 | 9.5720     | -3.493E-15 | 1.63770     | 3.196E-15    |
| 60    | 0.00000      | 4C26TB     | LinStatic | -1.693E-16 | 9.5382     | -3.645E-15 | 1.29974     | -5.677E-16   |
| 60    | 0.33659      | 4C26TB     | LinStatic | -1.693E-16 | 9.5382     | -3.645E-15 | 1.29974     | 6.590E-16    |
| 60    | 0.67318      | 4C26TB     | LinStatic | -1.693E-16 | 9.5382     | -3.645E-15 | 1.29974     | 1.886E-15    |
| 60    | 1.00977      | 4C26TB     | LinStatic | -1.693E-16 | 9.5382     | -3.645E-15 | 1.29974     | 3.112E-15    |
| 61    | 0.00000      | 4C26TB     | LinStatic | 2.909E-15  | -11.8567   | 7.441E-15  | -0.49897    | 1.114E-14    |
| 61    | 0.33659      | 4C26TB     | LinStatic | 2.909E-15  | -11.8567   | 7.441E-15  | -0.49897    | 8.635E-15    |
| 61    | 0.67318      | 4C26TB     | LinStatic | 2.909E-15  | -11.8567   | 7.441E-15  | -0.49897    | 6.130E-15    |
| 61    | 1.00977      | 4C26TB     | LinStatic | 2.909E-15  | -11.8567   | 7.441E-15  | -0.49897    | 3.626E-15    |
| 62    | 0.00000      | 4C26TB     | LinStatic | 5.093E-15  | -11.7384   | 7.079E-15  | -0.65778    | 1.196E-14    |
| 62    | 0.33659      | 4C26TB     | LinStatic | 5.093E-15  | -11.7384   | 7.079E-15  | -0.65778    | 9.581E-15    |
| 62    | 0.67318      | 4C26TB     | LinStatic | 5.093E-15  | -11.7384   | 7.079E-15  | -0.65778    | 7.198E-15    |
| 62    | 1.00977      | 4C26TB     | LinStatic | 5.093E-15  | -11.7384   | 7.079E-15  | -0.65778    | 4.815E-15    |
| 63    | 0.00000      | 4C26TB     | LinStatic | 5.019E-15  | -11.7671   | 6.123E-15  | -0.69938    | 1.119E-14    |
| 63    | 0.33659      | 4C26TB     | LinStatic | 5.019E-15  | -11.7671   | 6.123E-15  | -0.69938    | 9.126E-15    |
| 63    | 0.67318      | 4C26TB     | LinStatic | 5.019E-15  | -11.7671   | 6.123E-15  | -0.69938    | 7.065E-15    |
| 63    | 1.00977      | 4C26TB     | LinStatic | 5.019E-15  | -11.7671   | 6.123E-15  | -0.69938    | 5.004E-15    |
| 64    | 0.00000      | 4C26TB     | LinStatic | 3.644E-15  | -8.6083    | 4.955E-15  | -0.69158    | 1.003E-14    |
| 64    | 0.33659      | 4C26TB     | LinStatic | 3.644E-15  | -8.6083    | 4.955E-15  | -0.69158    | 8.365E-15    |
| 64    | 0.67318      | 4C26TB     | LinStatic | 3.644E-15  | -8.6083    | 4.955E-15  | -0.69158    | 6.697E-15    |
| 64    | 1.00977      | 4C26TB     | LinStatic | 3.644E-15  | -8.6083    | 4.955E-15  | -0.69158    | 5.029E-15    |
| 65    | 0.00000      | 4C26TB     | LinStatic | 1.698E-15  | -5.5745    | 3.812E-15  | -0.65328    | 8.922E-15    |
| 65    | 0.33659      | 4C26TB     | LinStatic | 1.698E-15  | -5.5745    | 3.812E-15  | -0.65328    | 7.639E-15    |
| 65    | 0.67318      | 4C26TB     | LinStatic | 1.698E-15  | -5.5745    | 3.812E-15  | -0.65328    | 6.356E-15    |
| 65    | 1.00977      | 4C26TB     | LinStatic | 1.698E-15  | -5.5745    | 3.812E-15  | -0.65328    | 5.073E-15    |
| 66    | 0.00000      | 4C26TB     | LinStatic | -3.617E-16 | -2.6122    | 2.807E-15  | -0.59125    | 7.992E-15    |
| 66    | 0.33659      | 4C26TB     | LinStatic | -3.617E-16 | -2.6122    | 2.807E-15  | -0.59125    | 7.048E-15    |
| 66    | 0.67318      | 4C26TB     | LinStatic | -3.617E-16 | -2.6122    | 2.807E-15  | -0.59125    | 6.103E-15    |
| 66    | 1.00977      | 4C26TB     | LinStatic | -3.617E-16 | -2.6122    | 2.807E-15  | -0.59125    | 5.158E-15    |
| 67    | 0.00000      | 4C26TB     | LinStatic | -2.269E-15 | -2.7859    | 1.979E-15  | -0.51213    | 7.308E-15    |
| 67    | 0.33659      | 4C26TB     | LinStatic | -2.269E-15 | -2.7859    | 1.979E-15  | -0.51213    | 6.642E-15    |
| 67    | 0.67318      | 4C26TB     | LinStatic | -2.269E-15 | -2.7859    | 1.979E-15  | -0.51213    | 5.975E-15    |
| 67    | 1.00977      | 4C26TB     | LinStatic | -2.269E-15 | -2.7859    | 1.979E-15  | -0.51213    | 5.309E-15    |
| 68    | 0.00000      | 4C26TB     | LinStatic | -3.887E-15 | -2.9970    | 1.317E-15  | -0.42293    | 6.867E-15    |
| 68    | 0.33659      | 4C26TB     | LinStatic | -3.887E-15 | -2.9970    | 1.317E-15  | -0.42293    | 6.423E-15    |
| 68    | 0.67318      | 4C26TB     | LinStatic | -3.887E-15 | -2.9970    | 1.317E-15  | -0.42293    | 5.980E-15    |
| 68    | 1.00977      | 4C26TB     | LinStatic | -3.887E-15 | -2.9970    | 1.317E-15  | -0.42293    | 5.536E-15    |
| 69    | 0.00000      | 4C26TB     | LinStatic | -5.165E-15 | -1.5370    | 7.884E-16  | -0.32670    | 6.550E-15    |
| 69    | 0.33659      | 4C26TB     | LinStatic | -5.165E-15 | -1.5370    | 7.884E-16  | -0.32670    | 6.285E-15    |
| 69    | 0.67318      | 4C26TB     | LinStatic | -5.165E-15 | -1.5370    | 7.884E-16  | -0.32670    | 6.020E-15    |
| 69    | 1.00977      | 4C26TB     | LinStatic | -5.165E-15 | -1.5370    | 7.884E-16  | -0.32670    | 5.754E-15    |
| 70    | 0.00000      | 4C26TB     | LinStatic | -6.097E-15 | 0.0102     | 3.519E-16  | -0.22459    | 6.260E-15    |
| 70    | 0.33659      | 4C26TB     | LinStatic | -6.097E-15 | 0.0102     | 3.519E-16  | -0.22459    | 6.141E-15    |
| 70    | 0.67318      | 4C26TB     | LinStatic | -6.097E-15 | 0.0102     | 3.519E-16  | -0.22459    | 6.023E-15    |
| 70    | 1.00977      | 4C26TB     | LinStatic | -6.097E-15 | 0.0102     | 3.519E-16  | -0.22459    | 5.905E-15    |
| 71    | 0.00000      | 4C26TB     | LinStatic | -6.692E-15 | -0.2524    | -1.236E-17 | -0.11938    | 5.990E-15    |
| 71    | 0.33659      | 4C26TB     | LinStatic | -6.692E-15 | -0.2524    | -1.236E-17 | -0.11938    | 5.994E-15    |
| 71    | 0.67318      | 4C26TB     | LinStatic | -6.692E-15 | -0.2524    | -1.236E-17 | -0.11938    | 5.998E-15    |
| 71    | 1.00977      | 4C26TB     | LinStatic | -6.692E-15 | -0.2524    | -1.236E-17 | -0.11938    | 6.002E-15    |
| 72    | 0.00000      | 4C26TB     | LinStatic | -6.969E-15 | 1.9856     | -3.253E-16 | -0.01335    | 5.681E-15    |
| 72    | 0.33659      | 4C26TB     | LinStatic | -6.969E-15 | 1.9856     | -3.253E-16 | -0.01335    | 5.790E-15    |
| 72    | 0.67318      | 4C26TB     | LinStatic | -6.969E-15 | 1.9856     | -3.253E-16 | -0.01335    | 5.900E-15    |
| 72    | 1.00977      | 4C26TB     | LinStatic | -6.969E-15 | 1.9856     | -3.253E-16 | -0.01335    | 6.009E-15    |
| 73    | 0.00000      | 4C26TB     | LinStatic | -6.950E-15 | 2.7403     | -6.098E-16 | 0.09206     | 5.315E-15    |
| 73    | 0.33659      | 4C26TB     | LinStatic | -6.950E-15 | 2.7403     | -6.098E-16 | 0.09206     | 5.521E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P          | V2       | V3         | T       | M2        |
|-------|--------------|------------|-----------|------------|----------|------------|---------|-----------|
|       |              |            |           | Tonf       | Tonf     | Tonf       | Tonf-m  | Tonf-m    |
| 73    | 0.67318      | 4C26TB     | LinStatic | -6.950E-15 | 2.7403   | -6.098E-16 | 0.09206 | 5.726E-15 |
| 73    | 1.00977      | 4C26TB     | LinStatic | -6.950E-15 | 2.7403   | -6.098E-16 | 0.09206 | 5.931E-15 |
| 74    | 0.00000      | 4C26TB     | LinStatic | -6.658E-15 | 2.5147   | -8.668E-16 | 0.19271 | 4.962E-15 |
| 74    | 0.33659      | 4C26TB     | LinStatic | -6.658E-15 | 2.5147   | -8.668E-16 | 0.19271 | 5.254E-15 |
| 74    | 0.67318      | 4C26TB     | LinStatic | -6.658E-15 | 2.5147   | -8.668E-16 | 0.19271 | 5.546E-15 |
| 74    | 1.00977      | 4C26TB     | LinStatic | -6.658E-15 | 2.5147   | -8.668E-16 | 0.19271 | 5.837E-15 |
| 75    | 0.00000      | 4C26TB     | LinStatic | -6.128E-15 | 2.3180   | -1.095E-15 | 0.28491 | 4.607E-15 |
| 75    | 0.33659      | 4C26TB     | LinStatic | -6.128E-15 | 2.3180   | -1.095E-15 | 0.28491 | 4.976E-15 |
| 75    | 0.67318      | 4C26TB     | LinStatic | -6.128E-15 | 2.3180   | -1.095E-15 | 0.28491 | 5.344E-15 |
| 75    | 1.00977      | 4C26TB     | LinStatic | -6.128E-15 | 2.3180   | -1.095E-15 | 0.28491 | 5.713E-15 |
| 76    | 0.00000      | 4C26TB     | LinStatic | -5.411E-15 | 6.2028   | -1.284E-15 | 0.36899 | 4.097E-15 |
| 76    | 0.33659      | 4C26TB     | LinStatic | -5.411E-15 | 6.2028   | -1.284E-15 | 0.36899 | 4.529E-15 |
| 76    | 0.67318      | 4C26TB     | LinStatic | -5.411E-15 | 6.2028   | -1.284E-15 | 0.36899 | 4.961E-15 |
| 76    | 1.00977      | 4C26TB     | LinStatic | -5.411E-15 | 6.2028   | -1.284E-15 | 0.36899 | 5.393E-15 |
| 77    | 0.00000      | 4C26TB     | LinStatic | -4.548E-15 | 9.2661   | -1.423E-15 | 0.44544 | 3.317E-15 |
| 77    | 0.33659      | 4C26TB     | LinStatic | -4.548E-15 | 9.2661   | -1.423E-15 | 0.44544 | 3.796E-15 |
| 77    | 0.67318      | 4C26TB     | LinStatic | -4.548E-15 | 9.2661   | -1.423E-15 | 0.44544 | 4.276E-15 |
| 77    | 1.00977      | 4C26TB     | LinStatic | -4.548E-15 | 9.2661   | -1.423E-15 | 0.44544 | 4.755E-15 |
| 78    | 0.00000      | 4C26TB     | LinStatic | -3.553E-15 | 11.5303  | -1.497E-15 | 0.50689 | 2.345E-15 |
| 78    | 0.33659      | 4C26TB     | LinStatic | -3.553E-15 | 11.5303  | -1.497E-15 | 0.50689 | 2.849E-15 |
| 78    | 0.67318      | 4C26TB     | LinStatic | -3.553E-15 | 11.5303  | -1.497E-15 | 0.50689 | 3.353E-15 |
| 78    | 1.00977      | 4C26TB     | LinStatic | -3.553E-15 | 11.5303  | -1.497E-15 | 0.50689 | 3.856E-15 |
| 79    | 0.00000      | 4C26TB     | LinStatic | -2.431E-15 | 11.5575  | -1.507E-15 | 0.52798 | 1.317E-15 |
| 79    | 0.33659      | 4C26TB     | LinStatic | -2.431E-15 | 11.5575  | -1.507E-15 | 0.52798 | 1.825E-15 |
| 79    | 0.67318      | 4C26TB     | LinStatic | -2.431E-15 | 11.5575  | -1.507E-15 | 0.52798 | 2.332E-15 |
| 79    | 1.00977      | 4C26TB     | LinStatic | -2.431E-15 | 11.5575  | -1.507E-15 | 0.52798 | 2.839E-15 |
| 80    | 0.00000      | 4C26TB     | LinStatic | -1.212E-15 | 11.7119  | -1.515E-15 | 0.43461 | 4.070E-16 |
| 80    | 0.33659      | 4C26TB     | LinStatic | -1.212E-15 | 11.7119  | -1.515E-15 | 0.43461 | 9.168E-16 |
| 80    | 0.67318      | 4C26TB     | LinStatic | -1.212E-15 | 11.7119  | -1.515E-15 | 0.43461 | 1.427E-15 |
| 80    | 1.00977      | 4C26TB     | LinStatic | -1.212E-15 | 11.7119  | -1.515E-15 | 0.43461 | 1.936E-15 |
| 81    | 0.00000      | 4C26TB     | LinStatic | 2.004E-14  | -11.7119 | 4.127E-15  | 0.43461 | 1.091E-14 |
| 81    | 0.33659      | 4C26TB     | LinStatic | 2.004E-14  | -11.7119 | 4.127E-15  | 0.43461 | 9.525E-15 |
| 81    | 0.67318      | 4C26TB     | LinStatic | 2.004E-14  | -11.7119 | 4.127E-15  | 0.43461 | 8.136E-15 |
| 81    | 1.00977      | 4C26TB     | LinStatic | 2.004E-14  | -11.7119 | 4.127E-15  | 0.43461 | 6.747E-15 |
| 82    | 0.00000      | 4C26TB     | LinStatic | 1.805E-14  | -11.5575 | 2.726E-15  | 0.52798 | 7.190E-15 |
| 82    | 0.33659      | 4C26TB     | LinStatic | 1.805E-14  | -11.5575 | 2.726E-15  | 0.52798 | 6.272E-15 |
| 82    | 0.67318      | 4C26TB     | LinStatic | 1.805E-14  | -11.5575 | 2.726E-15  | 0.52798 | 5.355E-15 |
| 82    | 1.00977      | 4C26TB     | LinStatic | 1.805E-14  | -11.5575 | 2.726E-15  | 0.52798 | 4.437E-15 |
| 83    | 0.00000      | 4C26TB     | LinStatic | 1.140E-14  | -11.5303 | 1.046E-15  | 0.50689 | 3.785E-15 |
| 83    | 0.33659      | 4C26TB     | LinStatic | 1.140E-14  | -11.5303 | 1.046E-15  | 0.50689 | 3.434E-15 |
| 83    | 0.67318      | 4C26TB     | LinStatic | 1.140E-14  | -11.5303 | 1.046E-15  | 0.50689 | 3.082E-15 |
| 83    | 1.00977      | 4C26TB     | LinStatic | 1.140E-14  | -11.5303 | 1.046E-15  | 0.50689 | 2.730E-15 |
| 84    | 0.00000      | 4C26TB     | LinStatic | 4.598E-15  | -9.2661  | -1.376E-16 | 0.44544 | 2.235E-15 |
| 84    | 0.33659      | 4C26TB     | LinStatic | 4.598E-15  | -9.2661  | -1.376E-16 | 0.44544 | 2.282E-15 |
| 84    | 0.67318      | 4C26TB     | LinStatic | 4.598E-15  | -9.2661  | -1.376E-16 | 0.44544 | 2.328E-15 |
| 84    | 1.00977      | 4C26TB     | LinStatic | 4.598E-15  | -9.2661  | -1.376E-16 | 0.44544 | 2.374E-15 |
| 85    | 0.00000      | 4C26TB     | LinStatic | -1.151E-15 | -6.2028  | -7.815E-16 | 0.36899 | 1.960E-15 |
| 85    | 0.33659      | 4C26TB     | LinStatic | -1.151E-15 | -6.2028  | -7.815E-16 | 0.36899 | 2.223E-15 |
| 85    | 0.67318      | 4C26TB     | LinStatic | -1.151E-15 | -6.2028  | -7.815E-16 | 0.36899 | 2.486E-15 |
| 85    | 1.00977      | 4C26TB     | LinStatic | -1.151E-15 | -6.2028  | -7.815E-16 | 0.36899 | 2.749E-15 |
| 86    | 0.00000      | 4C26TB     | LinStatic | -5.706E-15 | -2.3180  | -1.020E-15 | 0.28491 | 2.273E-15 |
| 86    | 0.33659      | 4C26TB     | LinStatic | -5.706E-15 | -2.3180  | -1.020E-15 | 0.28491 | 2.617E-15 |
| 86    | 0.67318      | 4C26TB     | LinStatic | -5.706E-15 | -2.3180  | -1.020E-15 | 0.28491 | 2.960E-15 |
| 86    | 1.00977      | 4C26TB     | LinStatic | -5.706E-15 | -2.3180  | -1.020E-15 | 0.28491 | 3.303E-15 |
| 87    | 0.00000      | 4C26TB     | LinStatic | -9.194E-15 | -2.5147  | -9.971E-16 | 0.19271 | 2.803E-15 |
| 87    | 0.33659      | 4C26TB     | LinStatic | -9.194E-15 | -2.5147  | -9.971E-16 | 0.19271 | 3.138E-15 |
| 87    | 0.67318      | 4C26TB     | LinStatic | -9.194E-15 | -2.5147  | -9.971E-16 | 0.19271 | 3.474E-15 |
| 87    | 1.00977      | 4C26TB     | LinStatic | -9.194E-15 | -2.5147  | -9.971E-16 | 0.19271 | 3.809E-15 |
| 88    | 0.00000      | 4C26TB     | LinStatic | -1.178E-14 | -2.7403  | -8.292E-16 | 0.09206 | 3.397E-15 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 88    | 0.33659      | 4C26TB     | LinStatic | -1.178E-14 | -2.7403    | -8.292E-16 | 0.09206     | 3.676E-15    |
| 88    | 0.67318      | 4C26TB     | LinStatic | -1.178E-14 | -2.7403    | -8.292E-16 | 0.09206     | 3.955E-15    |
| 88    | 1.00977      | 4C26TB     | LinStatic | -1.178E-14 | -2.7403    | -8.292E-16 | 0.09206     | 4.234E-15    |
| 89    | 0.00000      | 4C26TB     | LinStatic | -1.363E-14 | -1.9856    | -5.982E-16 | -0.01335    | 3.956E-15    |
| 89    | 0.33659      | 4C26TB     | LinStatic | -1.363E-14 | -1.9856    | -5.982E-16 | -0.01335    | 4.157E-15    |
| 89    | 0.67318      | 4C26TB     | LinStatic | -1.363E-14 | -1.9856    | -5.982E-16 | -0.01335    | 4.358E-15    |
| 89    | 1.00977      | 4C26TB     | LinStatic | -1.363E-14 | -1.9856    | -5.982E-16 | -0.01335    | 4.560E-15    |
| 90    | 0.00000      | 4C26TB     | LinStatic | -1.483E-14 | 0.2524     | -3.416E-16 | -0.11938    | 4.389E-15    |
| 90    | 0.33659      | 4C26TB     | LinStatic | -1.483E-14 | 0.2524     | -3.416E-16 | -0.11938    | 4.504E-15    |
| 90    | 0.67318      | 4C26TB     | LinStatic | -1.483E-14 | 0.2524     | -3.416E-16 | -0.11938    | 4.619E-15    |
| 90    | 1.00977      | 4C26TB     | LinStatic | -1.483E-14 | 0.2524     | -3.416E-16 | -0.11938    | 4.734E-15    |
| 91    | 0.00000      | 4C26TB     | LinStatic | -1.547E-14 | -0.0102    | -9.032E-17 | -0.22459    | 4.664E-15    |
| 91    | 0.33659      | 4C26TB     | LinStatic | -1.547E-14 | -0.0102    | -9.032E-17 | -0.22459    | 4.694E-15    |
| 91    | 0.67318      | 4C26TB     | LinStatic | -1.547E-14 | -0.0102    | -9.032E-17 | -0.22459    | 4.725E-15    |
| 91    | 1.00977      | 4C26TB     | LinStatic | -1.547E-14 | -0.0102    | -9.032E-17 | -0.22459    | 4.755E-15    |
| 92    | 0.00000      | 4C26TB     | LinStatic | -1.560E-14 | 1.5370     | 1.401E-16  | -0.32670    | 4.812E-15    |
| 92    | 0.33659      | 4C26TB     | LinStatic | -1.560E-14 | 1.5370     | 1.401E-16  | -0.32670    | 4.765E-15    |
| 92    | 0.67318      | 4C26TB     | LinStatic | -1.560E-14 | 1.5370     | 1.401E-16  | -0.32670    | 4.718E-15    |
| 92    | 1.00977      | 4C26TB     | LinStatic | -1.560E-14 | 1.5370     | 1.401E-16  | -0.32670    | 4.671E-15    |
| 93    | 0.00000      | 4C26TB     | LinStatic | -1.526E-14 | 2.9970     | 3.531E-16  | -0.42293    | 4.802E-15    |
| 93    | 0.33659      | 4C26TB     | LinStatic | -1.526E-14 | 2.9970     | 3.531E-16  | -0.42293    | 4.684E-15    |
| 93    | 0.67318      | 4C26TB     | LinStatic | -1.526E-14 | 2.9970     | 3.531E-16  | -0.42293    | 4.565E-15    |
| 93    | 1.00977      | 4C26TB     | LinStatic | -1.526E-14 | 2.9970     | 3.531E-16  | -0.42293    | 4.446E-15    |
| 94    | 0.00000      | 4C26TB     | LinStatic | -1.445E-14 | 2.7859     | 5.338E-16  | -0.51213    | 4.636E-15    |
| 94    | 0.33659      | 4C26TB     | LinStatic | -1.445E-14 | 2.7859     | 5.338E-16  | -0.51213    | 4.456E-15    |
| 94    | 0.67318      | 4C26TB     | LinStatic | -1.445E-14 | 2.7859     | 5.338E-16  | -0.51213    | 4.276E-15    |
| 94    | 1.00977      | 4C26TB     | LinStatic | -1.445E-14 | 2.7859     | 5.338E-16  | -0.51213    | 4.097E-15    |
| 95    | 0.00000      | 4C26TB     | LinStatic | -1.321E-14 | 2.6122     | 6.751E-16  | -0.59125    | 4.382E-15    |
| 95    | 0.33659      | 4C26TB     | LinStatic | -1.321E-14 | 2.6122     | 6.751E-16  | -0.59125    | 4.154E-15    |
| 95    | 0.67318      | 4C26TB     | LinStatic | -1.321E-14 | 2.6122     | 6.751E-16  | -0.59125    | 3.927E-15    |
| 95    | 1.00977      | 4C26TB     | LinStatic | -1.321E-14 | 2.6122     | 6.751E-16  | -0.59125    | 3.700E-15    |
| 96    | 0.00000      | 4C26TB     | LinStatic | -1.159E-14 | 5.5745     | 8.013E-16  | -0.65328    | 4.102E-15    |
| 96    | 0.33659      | 4C26TB     | LinStatic | -1.159E-14 | 5.5745     | 8.013E-16  | -0.65328    | 3.832E-15    |
| 96    | 0.67318      | 4C26TB     | LinStatic | -1.159E-14 | 5.5745     | 8.013E-16  | -0.65328    | 3.563E-15    |
| 96    | 1.00977      | 4C26TB     | LinStatic | -1.159E-14 | 5.5745     | 8.013E-16  | -0.65328    | 3.293E-15    |
| 97    | 0.00000      | 4C26TB     | LinStatic | -9.634E-15 | 8.6083     | 9.975E-16  | -0.69158    | 3.817E-15    |
| 97    | 0.33659      | 4C26TB     | LinStatic | -9.634E-15 | 8.6083     | 9.975E-16  | -0.69158    | 3.481E-15    |
| 97    | 0.67318      | 4C26TB     | LinStatic | -9.634E-15 | 8.6083     | 9.975E-16  | -0.69158    | 3.145E-15    |
| 97    | 1.00977      | 4C26TB     | LinStatic | -9.634E-15 | 8.6083     | 9.975E-16  | -0.69158    | 2.810E-15    |
| 98    | 0.00000      | 4C26TB     | LinStatic | -7.403E-15 | 11.7671    | 1.353E-15  | -0.69938    | 3.444E-15    |
| 98    | 0.33659      | 4C26TB     | LinStatic | -7.403E-15 | 11.7671    | 1.353E-15  | -0.69938    | 2.989E-15    |
| 98    | 0.67318      | 4C26TB     | LinStatic | -7.403E-15 | 11.7671    | 1.353E-15  | -0.69938    | 2.533E-15    |
| 98    | 1.00977      | 4C26TB     | LinStatic | -7.403E-15 | 11.7671    | 1.353E-15  | -0.69938    | 2.078E-15    |
| 99    | 0.00000      | 4C26TB     | LinStatic | -4.960E-15 | 11.7384    | 1.894E-15  | -0.65778    | 2.840E-15    |
| 99    | 0.33659      | 4C26TB     | LinStatic | -4.960E-15 | 11.7384    | 1.894E-15  | -0.65778    | 2.202E-15    |
| 99    | 0.67318      | 4C26TB     | LinStatic | -4.960E-15 | 11.7384    | 1.894E-15  | -0.65778    | 1.565E-15    |
| 99    | 1.00977      | 4C26TB     | LinStatic | -4.960E-15 | 11.7384    | 1.894E-15  | -0.65778    | 9.275E-16    |
| 100   | 0.00000      | 4C26TB     | LinStatic | -2.398E-15 | 11.8567    | 2.459E-15  | -0.49897    | 1.727E-15    |
| 100   | 0.33659      | 4C26TB     | LinStatic | -2.398E-15 | 11.8567    | 2.459E-15  | -0.49897    | 8.989E-16    |
| 100   | 0.67318      | 4C26TB     | LinStatic | -2.398E-15 | 11.8567    | 2.459E-15  | -0.49897    | 7.120E-17    |
| 100   | 1.00977      | 4C26TB     | LinStatic | -2.398E-15 | 11.8567    | 2.459E-15  | -0.49897    | -7.565E-16   |
| 101   | 0.00000      | 4C26TB     | LinStatic | 9.166E-14  | -9.5382    | -8.835E-15 | 1.29974     | -2.276E-14   |
| 101   | 0.33659      | 4C26TB     | LinStatic | 9.166E-14  | -9.5382    | -8.835E-15 | 1.29974     | -1.978E-14   |
| 101   | 0.67318      | 4C26TB     | LinStatic | 9.166E-14  | -9.5382    | -8.835E-15 | 1.29974     | -1.681E-14   |
| 101   | 1.00977      | 4C26TB     | LinStatic | 9.166E-14  | -9.5382    | -8.835E-15 | 1.29974     | -1.384E-14   |
| 102   | 0.00000      | 4C26TB     | LinStatic | 3.514E-14  | -9.5720    | -1.166E-14 | 1.63770     | -2.265E-14   |
| 102   | 0.33659      | 4C26TB     | LinStatic | 3.514E-14  | -9.5720    | -1.166E-14 | 1.63770     | -1.872E-14   |
| 102   | 0.67318      | 4C26TB     | LinStatic | 3.514E-14  | -9.5720    | -1.166E-14 | 1.63770     | -1.480E-14   |
| 102   | 1.00977      | 4C26TB     | LinStatic | 3.514E-14  | -9.5720    | -1.166E-14 | 1.63770     | -1.088E-14   |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|---------|------------|-----------|------------|---------|------------|----------|------------|
|       | m       |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 103   | 0.00000 | 4C26TB     | LinStatic | 8.098E-15  | -9.8123 | -1.075E-14 | 1.63155  | -1.800E-14 |
| 103   | 0.33659 | 4C26TB     | LinStatic | 8.098E-15  | -9.8123 | -1.075E-14 | 1.63155  | -1.438E-14 |
| 103   | 0.67318 | 4C26TB     | LinStatic | 8.098E-15  | -9.8123 | -1.075E-14 | 1.63155  | -1.076E-14 |
| 103   | 1.00977 | 4C26TB     | LinStatic | 8.098E-15  | -9.8123 | -1.075E-14 | 1.63155  | -7.142E-15 |
| 104   | 0.00000 | 4C26TB     | LinStatic | -6.240E-15 | -6.9387 | -8.969E-15 | 1.48109  | -1.375E-14 |
| 104   | 0.33659 | 4C26TB     | LinStatic | -6.240E-15 | -6.9387 | -8.969E-15 | 1.48109  | -1.073E-14 |
| 104   | 0.67318 | 4C26TB     | LinStatic | -6.240E-15 | -6.9387 | -8.969E-15 | 1.48109  | -7.714E-15 |
| 104   | 1.00977 | 4C26TB     | LinStatic | -6.240E-15 | -6.9387 | -8.969E-15 | 1.48109  | -4.695E-15 |
| 105   | 0.00000 | 4C26TB     | LinStatic | -1.447E-14 | -4.2356 | -7.175E-15 | 1.26357  | -1.017E-14 |
| 105   | 0.33659 | 4C26TB     | LinStatic | -1.447E-14 | -4.2356 | -7.175E-15 | 1.26357  | -7.759E-15 |
| 105   | 0.67318 | 4C26TB     | LinStatic | -1.447E-14 | -4.2356 | -7.175E-15 | 1.26357  | -5.344E-15 |
| 105   | 1.00977 | 4C26TB     | LinStatic | -1.447E-14 | -4.2356 | -7.175E-15 | 1.26357  | -2.929E-15 |
| 106   | 0.00000 | 4C26TB     | LinStatic | -1.945E-14 | -1.6025 | -5.548E-15 | 1.01811  | -7.008E-15 |
| 106   | 0.33659 | 4C26TB     | LinStatic | -1.945E-14 | -1.6025 | -5.548E-15 | 1.01811  | -5.141E-15 |
| 106   | 0.67318 | 4C26TB     | LinStatic | -1.945E-14 | -1.6025 | -5.548E-15 | 1.01811  | -3.274E-15 |
| 106   | 1.00977 | 4C26TB     | LinStatic | -1.945E-14 | -1.6025 | -5.548E-15 | 1.01811  | -1.407E-15 |
| 107   | 0.00000 | 4C26TB     | LinStatic | -2.265E-14 | -2.0618 | -4.072E-15 | 0.76803  | -4.371E-15 |
| 107   | 0.33659 | 4C26TB     | LinStatic | -2.265E-14 | -2.0618 | -4.072E-15 | 0.76803  | -3.001E-15 |
| 107   | 0.67318 | 4C26TB     | LinStatic | -2.265E-14 | -2.0618 | -4.072E-15 | 0.76803  | -1.630E-15 |
| 107   | 1.00977 | 4C26TB     | LinStatic | -2.265E-14 | -2.0618 | -4.072E-15 | 0.76803  | -2.596E-16 |
| 108   | 0.00000 | 4C26TB     | LinStatic | -2.487E-14 | -2.5118 | -2.782E-15 | 0.51409  | -2.488E-15 |
| 108   | 0.33659 | 4C26TB     | LinStatic | -2.487E-14 | -2.5118 | -2.782E-15 | 0.51409  | -1.552E-15 |
| 108   | 0.67318 | 4C26TB     | LinStatic | -2.487E-14 | -2.5118 | -2.782E-15 | 0.51409  | -6.153E-16 |
| 108   | 1.00977 | 4C26TB     | LinStatic | -2.487E-14 | -2.5118 | -2.782E-15 | 0.51409  | 3.210E-16  |
| 109   | 0.00000 | 4C26TB     | LinStatic | -2.636E-14 | -1.2597 | -1.681E-15 | 0.25430  | -1.141E-15 |
| 109   | 0.33659 | 4C26TB     | LinStatic | -2.636E-14 | -1.2597 | -1.681E-15 | 0.25430  | -5.756E-16 |
| 109   | 0.67318 | 4C26TB     | LinStatic | -2.636E-14 | -1.2597 | -1.681E-15 | 0.25430  | -9.646E-18 |
| 109   | 1.00977 | 4C26TB     | LinStatic | -2.636E-14 | -1.2597 | -1.681E-15 | 0.25430  | 5.563E-16  |
| 110   | 0.00000 | 4C26TB     | LinStatic | -2.717E-14 | 0.0957  | -7.199E-16 | -0.00902 | -5.386E-17 |
| 110   | 0.33659 | 4C26TB     | LinStatic | -2.717E-14 | 0.0957  | -7.199E-16 | -0.00902 | 1.884E-16  |
| 110   | 0.67318 | 4C26TB     | LinStatic | -2.717E-14 | 0.0957  | -7.199E-16 | -0.00902 | 4.307E-16  |
| 110   | 1.00977 | 4C26TB     | LinStatic | -2.717E-14 | 0.0957  | -7.199E-16 | -0.00902 | 6.731E-16  |
| 111   | 0.00000 | 4C26TB     | LinStatic | -2.742E-14 | -0.3505 | 1.449E-16  | -0.26971 | 7.420E-16  |
| 111   | 0.33659 | 4C26TB     | LinStatic | -2.742E-14 | -0.3505 | 1.449E-16  | -0.26971 | 6.932E-16  |
| 111   | 0.67318 | 4C26TB     | LinStatic | -2.742E-14 | -0.3505 | 1.449E-16  | -0.26971 | 6.444E-16  |
| 111   | 1.00977 | 4C26TB     | LinStatic | -2.742E-14 | -0.3505 | 1.449E-16  | -0.26971 | 5.956E-16  |
| 112   | 0.00000 | 4C26TB     | LinStatic | -2.710E-14 | 1.6929  | 9.016E-16  | -0.52844 | 1.303E-15  |
| 112   | 0.33659 | 4C26TB     | LinStatic | -2.710E-14 | 1.6929  | 9.016E-16  | -0.52844 | 9.995E-16  |
| 112   | 0.67318 | 4C26TB     | LinStatic | -2.710E-14 | 1.6929  | 9.016E-16  | -0.52844 | 6.961E-16  |
| 112   | 1.00977 | 4C26TB     | LinStatic | -2.710E-14 | 1.6929  | 9.016E-16  | -0.52844 | 3.926E-16  |
| 113   | 0.00000 | 4C26TB     | LinStatic | -2.623E-14 | 2.2305  | 1.599E-15  | -0.78060 | 1.712E-15  |
| 113   | 0.33659 | 4C26TB     | LinStatic | -2.623E-14 | 2.2305  | 1.599E-15  | -0.78060 | 1.173E-15  |
| 113   | 0.67318 | 4C26TB     | LinStatic | -2.623E-14 | 2.2305  | 1.599E-15  | -0.78060 | 6.350E-16  |
| 113   | 1.00977 | 4C26TB     | LinStatic | -2.623E-14 | 2.2305  | 1.599E-15  | -0.78060 | 9.672E-17  |
| 114   | 0.00000 | 4C26TB     | LinStatic | -2.491E-14 | 1.7548  | 2.233E-15  | -1.02345 | 1.744E-15  |
| 114   | 0.33659 | 4C26TB     | LinStatic | -2.491E-14 | 1.7548  | 2.233E-15  | -1.02345 | 9.924E-16  |
| 114   | 0.67318 | 4C26TB     | LinStatic | -2.491E-14 | 1.7548  | 2.233E-15  | -1.02345 | 2.407E-16  |
| 114   | 1.00977 | 4C26TB     | LinStatic | -2.491E-14 | 1.7548  | 2.233E-15  | -1.02345 | -5.110E-16 |
| 115   | 0.00000 | 4C26TB     | LinStatic | -2.310E-14 | 1.2601  | 2.766E-15  | -1.25910 | 1.379E-15  |
| 115   | 0.33659 | 4C26TB     | LinStatic | -2.310E-14 | 1.2601  | 2.766E-15  | -1.25910 | 4.483E-16  |
| 115   | 0.67318 | 4C26TB     | LinStatic | -2.310E-14 | 1.2601  | 2.766E-15  | -1.25910 | -4.828E-16 |
| 115   | 1.00977 | 4C26TB     | LinStatic | -2.310E-14 | 1.2601  | 2.766E-15  | -1.25910 | -1.414E-15 |
| 116   | 0.00000 | 4C26TB     | LinStatic | -2.050E-14 | 4.7973  | 3.210E-15  | -1.48279 | 1.162E-15  |
| 116   | 0.33659 | 4C26TB     | LinStatic | -2.050E-14 | 4.7973  | 3.210E-15  | -1.48279 | 8.149E-17  |
| 116   | 0.67318 | 4C26TB     | LinStatic | -2.050E-14 | 4.7973  | 3.210E-15  | -1.48279 | -9.990E-16 |
| 116   | 1.00977 | 4C26TB     | LinStatic | -2.050E-14 | 4.7973  | 3.210E-15  | -1.48279 | -2.079E-15 |
| 117   | 0.00000 | 4C26TB     | LinStatic | -1.692E-14 | 7.4972  | 3.744E-15  | -1.67097 | 1.639E-15  |
| 117   | 0.33659 | 4C26TB     | LinStatic | -1.692E-14 | 7.4972  | 3.744E-15  | -1.67097 | 3.792E-16  |
| 117   | 0.67318 | 4C26TB     | LinStatic | -1.692E-14 | 7.4972  | 3.744E-15  | -1.67097 | -8.809E-16 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 117   | 1.00977      | 4C26TB     | LinStatic | -1.692E-14 | 7.4972     | 3.744E-15  | -1.67097    | -2.141E-15   |
| 118   | 0.00000      | 4C26TB     | LinStatic | -1.254E-14 | 9.4315     | 4.636E-15  | -1.78477    | 2.808E-15    |
| 118   | 0.33659      | 4C26TB     | LinStatic | -1.254E-14 | 9.4315     | 4.636E-15  | -1.78477    | 1.248E-15    |
| 118   | 0.67318      | 4C26TB     | LinStatic | -1.254E-14 | 9.4315     | 4.636E-15  | -1.78477    | -3.124E-16   |
| 118   | 1.00977      | 4C26TB     | LinStatic | -1.254E-14 | 9.4315     | 4.636E-15  | -1.78477    | -1.873E-15   |
| 119   | 0.00000      | 4C26TB     | LinStatic | -7.819E-15 | 9.2032     | 6.418E-15  | -1.74591    | 4.265E-15    |
| 119   | 0.33659      | 4C26TB     | LinStatic | -7.819E-15 | 9.2032     | 6.418E-15  | -1.74591    | 2.104E-15    |
| 119   | 0.67318      | 4C26TB     | LinStatic | -7.819E-15 | 9.2032     | 6.418E-15  | -1.74591    | -5.565E-17   |
| 119   | 1.00977      | 4C26TB     | LinStatic | -7.819E-15 | 9.2032     | 6.418E-15  | -1.74591    | -2.216E-15   |
| 120   | 0.00000      | 4C26TB     | LinStatic | -3.350E-15 | 9.1712     | 1.024E-14  | -1.35643    | 4.856E-15    |
| 120   | 0.33659      | 4C26TB     | LinStatic | -3.350E-15 | 9.1712     | 1.024E-14  | -1.35643    | 1.409E-15    |
| 120   | 0.67318      | 4C26TB     | LinStatic | -3.350E-15 | 9.1712     | 1.024E-14  | -1.35643    | -2.038E-15   |
| 120   | 1.00977      | 4C26TB     | LinStatic | -3.350E-15 | 9.1712     | 1.024E-14  | -1.35643    | -5.485E-15   |
| 121   | 0.00000      | 4C26TB     | LinStatic | -1.035E-13 | -4.8678    | -2.436E-14 | 1.63930     | -2.128E-14   |
| 121   | 0.33659      | 4C26TB     | LinStatic | -1.035E-13 | -4.8678    | -2.436E-14 | 1.63930     | -1.308E-14   |
| 121   | 0.67318      | 4C26TB     | LinStatic | -1.035E-13 | -4.8678    | -2.436E-14 | 1.63930     | -4.878E-15   |
| 121   | 1.00977      | 4C26TB     | LinStatic | -1.035E-13 | -4.8678    | -2.436E-14 | 1.63930     | 3.321E-15    |
| 122   | 0.00000      | 4C26TB     | LinStatic | -3.969E-14 | -4.6355    | -1.705E-14 | 2.06795     | -9.605E-15   |
| 122   | 0.33659      | 4C26TB     | LinStatic | -3.969E-14 | -4.6355    | -1.705E-14 | 2.06795     | -3.867E-15   |
| 122   | 0.67318      | 4C26TB     | LinStatic | -3.969E-14 | -4.6355    | -1.705E-14 | 2.06795     | 1.872E-15    |
| 122   | 1.00977      | 4C26TB     | LinStatic | -3.969E-14 | -4.6355    | -1.705E-14 | 2.06795     | 7.610E-15    |
| 123   | 0.00000      | 4C26TB     | LinStatic | -9.746E-15 | -4.2755    | -1.291E-14 | 2.06814     | -9.911E-16   |
| 123   | 0.33659      | 4C26TB     | LinStatic | -9.746E-15 | -4.2755    | -1.291E-14 | 2.06814     | 3.354E-15    |
| 123   | 0.67318      | 4C26TB     | LinStatic | -9.746E-15 | -4.2755    | -1.291E-14 | 2.06814     | 7.699E-15    |
| 123   | 1.00977      | 4C26TB     | LinStatic | -9.746E-15 | -4.2755    | -1.291E-14 | 2.06814     | 1.204E-14    |
| 124   | 0.00000      | 4C26TB     | LinStatic | 5.912E-15  | -3.7961    | -9.995E-15 | 1.89150     | 5.780E-15    |
| 124   | 0.33659      | 4C26TB     | LinStatic | 5.912E-15  | -3.7961    | -9.995E-15 | 1.89150     | 9.144E-15    |
| 124   | 0.67318      | 4C26TB     | LinStatic | 5.912E-15  | -3.7961    | -9.995E-15 | 1.89150     | 1.251E-14    |
| 124   | 1.00977      | 4C26TB     | LinStatic | 5.912E-15  | -3.7961    | -9.995E-15 | 1.89150     | 1.587E-14    |
| 125   | 0.00000      | 4C26TB     | LinStatic | 1.501E-14  | -3.2381    | -7.702E-15 | 1.63505     | 1.094E-14    |
| 125   | 0.33659      | 4C26TB     | LinStatic | 1.501E-14  | -3.2381    | -7.702E-15 | 1.63505     | 1.354E-14    |
| 125   | 0.67318      | 4C26TB     | LinStatic | 1.501E-14  | -3.2381    | -7.702E-15 | 1.63505     | 1.613E-14    |
| 125   | 1.00977      | 4C26TB     | LinStatic | 1.501E-14  | -3.2381    | -7.702E-15 | 1.63505     | 1.872E-14    |
| 126   | 0.00000      | 4C26TB     | LinStatic | 2.078E-14  | -2.6465    | -5.839E-15 | 1.34341     | 1.472E-14    |
| 126   | 0.33659      | 4C26TB     | LinStatic | 2.078E-14  | -2.6465    | -5.839E-15 | 1.34341     | 1.669E-14    |
| 126   | 0.67318      | 4C26TB     | LinStatic | 2.078E-14  | -2.6465    | -5.839E-15 | 1.34341     | 1.865E-14    |
| 126   | 1.00977      | 4C26TB     | LinStatic | 2.078E-14  | -2.6465    | -5.839E-15 | 1.34341     | 2.062E-14    |
| 127   | 0.00000      | 4C26TB     | LinStatic | 2.468E-14  | -2.0535    | -4.332E-15 | 1.03926     | 1.752E-14    |
| 127   | 0.33659      | 4C26TB     | LinStatic | 2.468E-14  | -2.0535    | -4.332E-15 | 1.03926     | 1.898E-14    |
| 127   | 0.67318      | 4C26TB     | LinStatic | 2.468E-14  | -2.0535    | -4.332E-15 | 1.03926     | 2.044E-14    |
| 127   | 1.00977      | 4C26TB     | LinStatic | 2.468E-14  | -2.0535    | -4.332E-15 | 1.03926     | 2.190E-14    |
| 128   | 0.00000      | 4C26TB     | LinStatic | 2.740E-14  | -1.4634    | -3.048E-15 | 0.72543     | 1.975E-14    |
| 128   | 0.33659      | 4C26TB     | LinStatic | 2.740E-14  | -1.4634    | -3.048E-15 | 0.72543     | 2.077E-14    |
| 128   | 0.67318      | 4C26TB     | LinStatic | 2.740E-14  | -1.4634    | -3.048E-15 | 0.72543     | 2.180E-14    |
| 128   | 1.00977      | 4C26TB     | LinStatic | 2.740E-14  | -1.4634    | -3.048E-15 | 0.72543     | 2.282E-14    |
| 129   | 0.00000      | 4C26TB     | LinStatic | 2.918E-14  | -0.8721    | -1.890E-15 | 0.40156     | 2.145E-14    |
| 129   | 0.33659      | 4C26TB     | LinStatic | 2.918E-14  | -0.8721    | -1.890E-15 | 0.40156     | 2.208E-14    |
| 129   | 0.67318      | 4C26TB     | LinStatic | 2.918E-14  | -0.8721    | -1.890E-15 | 0.40156     | 2.272E-14    |
| 129   | 1.00977      | 4C26TB     | LinStatic | 2.918E-14  | -0.8721    | -1.890E-15 | 0.40156     | 2.336E-14    |
| 130   | 0.00000      | 4C26TB     | LinStatic | 3.010E-14  | -0.2818    | -8.366E-16 | 0.07340     | 2.258E-14    |
| 130   | 0.33659      | 4C26TB     | LinStatic | 3.010E-14  | -0.2818    | -8.366E-16 | 0.07340     | 2.286E-14    |
| 130   | 0.67318      | 4C26TB     | LinStatic | 3.010E-14  | -0.2818    | -8.366E-16 | 0.07340     | 2.314E-14    |
| 130   | 1.00977      | 4C26TB     | LinStatic | 3.010E-14  | -0.2818    | -8.366E-16 | 0.07340     | 2.342E-14    |
| 131   | 0.00000      | 4C26TB     | LinStatic | 3.027E-14  | 0.3064     | 1.220E-16  | -0.25345    | 2.323E-14    |
| 131   | 0.33659      | 4C26TB     | LinStatic | 3.027E-14  | 0.3064     | 1.220E-16  | -0.25345    | 2.319E-14    |
| 131   | 0.67318      | 4C26TB     | LinStatic | 3.027E-14  | 0.3064     | 1.220E-16  | -0.25345    | 2.315E-14    |
| 131   | 1.00977      | 4C26TB     | LinStatic | 3.027E-14  | 0.3064     | 1.220E-16  | -0.25345    | 2.311E-14    |
| 132   | 0.00000      | 4C26TB     | LinStatic | 2.969E-14  | 0.8976     | 1.034E-15  | -0.57814    | 2.341E-14    |
| 132   | 0.33659      | 4C26TB     | LinStatic | 2.969E-14  | 0.8976     | 1.034E-15  | -0.57814    | 2.306E-14    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|---------|------------|-----------|------------|---------|------------|----------|------------|
|       | m       |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 132   | 0.67318 | 4C26TB     | LinStatic | 2.969E-14  | 0.8976  | 1.034E-15  | -0.57814 | 2.271E-14  |
| 132   | 1.00977 | 4C26TB     | LinStatic | 2.969E-14  | 0.8976  | 1.034E-15  | -0.57814 | 2.237E-14  |
| 133   | 0.00000 | 4C26TB     | LinStatic | 2.841E-14  | 1.4862  | 1.870E-15  | -0.89248 | 2.309E-14  |
| 133   | 0.33659 | 4C26TB     | LinStatic | 2.841E-14  | 1.4862  | 1.870E-15  | -0.89248 | 2.246E-14  |
| 133   | 0.67318 | 4C26TB     | LinStatic | 2.841E-14  | 1.4862  | 1.870E-15  | -0.89248 | 2.183E-14  |
| 133   | 1.00977 | 4C26TB     | LinStatic | 2.841E-14  | 1.4862  | 1.870E-15  | -0.89248 | 2.120E-14  |
| 134   | 0.00000 | 4C26TB     | LinStatic | 2.651E-14  | 2.0737  | 2.648E-15  | -1.19434 | 2.242E-14  |
| 134   | 0.33659 | 4C26TB     | LinStatic | 2.651E-14  | 2.0737  | 2.648E-15  | -1.19434 | 2.152E-14  |
| 134   | 0.67318 | 4C26TB     | LinStatic | 2.651E-14  | 2.0737  | 2.648E-15  | -1.19434 | 2.063E-14  |
| 134   | 1.00977 | 4C26TB     | LinStatic | 2.651E-14  | 2.0737  | 2.648E-15  | -1.19434 | 1.974E-14  |
| 135   | 0.00000 | 4C26TB     | LinStatic | 2.403E-14  | 2.6626  | 3.409E-15  | -1.48506 | 2.138E-14  |
| 135   | 0.33659 | 4C26TB     | LinStatic | 2.403E-14  | 2.6626  | 3.409E-15  | -1.48506 | 2.023E-14  |
| 135   | 0.67318 | 4C26TB     | LinStatic | 2.403E-14  | 2.6626  | 3.409E-15  | -1.48506 | 1.908E-14  |
| 135   | 1.00977 | 4C26TB     | LinStatic | 2.403E-14  | 2.6626  | 3.409E-15  | -1.48506 | 1.793E-14  |
| 136   | 0.00000 | 4C26TB     | LinStatic | 2.088E-14  | 3.2397  | 4.131E-15  | -1.75943 | 1.957E-14  |
| 136   | 0.33659 | 4C26TB     | LinStatic | 2.088E-14  | 3.2397  | 4.131E-15  | -1.75943 | 1.818E-14  |
| 136   | 0.67318 | 4C26TB     | LinStatic | 2.088E-14  | 3.2397  | 4.131E-15  | -1.75943 | 1.679E-14  |
| 136   | 1.00977 | 4C26TB     | LinStatic | 2.088E-14  | 3.2397  | 4.131E-15  | -1.75943 | 1.540E-14  |
| 137   | 0.00000 | 4C26TB     | LinStatic | 1.701E-14  | 3.7584  | 4.586E-15  | -1.98916 | 1.656E-14  |
| 137   | 0.33659 | 4C26TB     | LinStatic | 1.701E-14  | 3.7584  | 4.586E-15  | -1.98916 | 1.502E-14  |
| 137   | 0.67318 | 4C26TB     | LinStatic | 1.701E-14  | 3.7584  | 4.586E-15  | -1.98916 | 1.347E-14  |
| 137   | 1.00977 | 4C26TB     | LinStatic | 1.701E-14  | 3.7584  | 4.586E-15  | -1.98916 | 1.193E-14  |
| 138   | 0.00000 | 4C26TB     | LinStatic | 1.253E-14  | 4.1706  | 4.415E-15  | -2.13095 | 1.223E-14  |
| 138   | 0.33659 | 4C26TB     | LinStatic | 1.253E-14  | 4.1706  | 4.415E-15  | -2.13095 | 1.075E-14  |
| 138   | 0.67318 | 4C26TB     | LinStatic | 1.253E-14  | 4.1706  | 4.415E-15  | -2.13095 | 9.260E-15  |
| 138   | 1.00977 | 4C26TB     | LinStatic | 1.253E-14  | 4.1706  | 4.415E-15  | -2.13095 | 7.774E-15  |
| 139   | 0.00000 | 4C26TB     | LinStatic | 7.668E-15  | 4.4438  | 2.963E-15  | -2.09637 | 6.793E-15  |
| 139   | 0.33659 | 4C26TB     | LinStatic | 7.668E-15  | 4.4438  | 2.963E-15  | -2.09637 | 5.796E-15  |
| 139   | 0.67318 | 4C26TB     | LinStatic | 7.668E-15  | 4.4438  | 2.963E-15  | -2.09637 | 4.799E-15  |
| 139   | 1.00977 | 4C26TB     | LinStatic | 7.668E-15  | 4.4438  | 2.963E-15  | -2.09637 | 3.801E-15  |
| 140   | 0.00000 | 4C26TB     | LinStatic | 2.912E-15  | 4.5718  | -1.113E-15 | -1.64196 | 1.204E-15  |
| 140   | 0.33659 | 4C26TB     | LinStatic | 2.912E-15  | 4.5718  | -1.113E-15 | -1.64196 | 1.578E-15  |
| 140   | 0.67318 | 4C26TB     | LinStatic | 2.912E-15  | 4.5718  | -1.113E-15 | -1.64196 | 1.953E-15  |
| 140   | 1.00977 | 4C26TB     | LinStatic | 2.912E-15  | 4.5718  | -1.113E-15 | -1.64196 | 2.327E-15  |
| 141   | 0.00000 | 4C26TB     | LinStatic | 1.289E-14  | -0.0715 | 1.760E-15  | 0.84908  | 1.433E-14  |
| 141   | 0.33659 | 4C26TB     | LinStatic | 1.289E-14  | -0.0715 | 1.760E-15  | 0.84908  | 1.373E-14  |
| 141   | 0.67318 | 4C26TB     | LinStatic | 1.289E-14  | -0.0715 | 1.760E-15  | 0.84908  | 1.314E-14  |
| 141   | 1.00977 | 4C26TB     | LinStatic | 1.289E-14  | -0.0715 | 1.760E-15  | 0.84908  | 1.255E-14  |
| 142   | 0.00000 | 4C26TB     | LinStatic | -2.156E-15 | -0.3833 | -1.049E-15 | 1.08862  | 6.680E-15  |
| 142   | 0.33659 | 4C26TB     | LinStatic | -2.156E-15 | -0.3833 | -1.049E-15 | 1.08862  | 7.033E-15  |
| 142   | 0.67318 | 4C26TB     | LinStatic | -2.156E-15 | -0.3833 | -1.049E-15 | 1.08862  | 7.386E-15  |
| 142   | 1.00977 | 4C26TB     | LinStatic | -2.156E-15 | -0.3833 | -1.049E-15 | 1.08862  | 7.739E-15  |
| 143   | 0.00000 | 4C26TB     | LinStatic | -5.376E-15 | -0.4855 | -2.743E-15 | 1.11058  | -1.380E-15 |
| 143   | 0.33659 | 4C26TB     | LinStatic | -5.376E-15 | -0.4855 | -2.743E-15 | 1.11058  | -4.567E-16 |
| 143   | 0.67318 | 4C26TB     | LinStatic | -5.376E-15 | -0.4855 | -2.743E-15 | 1.11058  | 4.667E-16  |
| 143   | 1.00977 | 4C26TB     | LinStatic | -5.376E-15 | -0.4855 | -2.743E-15 | 1.11058  | 1.390E-15  |
| 144   | 0.00000 | 4C26TB     | LinStatic | -4.689E-15 | -0.5117 | -3.661E-15 | 1.04380  | -6.951E-15 |
| 144   | 0.33659 | 4C26TB     | LinStatic | -4.689E-15 | -0.5117 | -3.661E-15 | 1.04380  | -5.719E-15 |
| 144   | 0.67318 | 4C26TB     | LinStatic | -4.689E-15 | -0.5117 | -3.661E-15 | 1.04380  | -4.486E-15 |
| 144   | 1.00977 | 4C26TB     | LinStatic | -4.689E-15 | -0.5117 | -3.661E-15 | 1.04380  | -3.254E-15 |
| 145   | 0.00000 | 4C26TB     | LinStatic | -2.989E-15 | -0.4999 | -4.006E-15 | 0.93146  | -1.029E-14 |
| 145   | 0.33659 | 4C26TB     | LinStatic | -2.989E-15 | -0.4999 | -4.006E-15 | 0.93146  | -8.938E-15 |
| 145   | 0.67318 | 4C26TB     | LinStatic | -2.989E-15 | -0.4999 | -4.006E-15 | 0.93146  | -7.590E-15 |
| 145   | 1.00977 | 4C26TB     | LinStatic | -2.989E-15 | -0.4999 | -4.006E-15 | 0.93146  | -6.242E-15 |
| 146   | 0.00000 | 4C26TB     | LinStatic | -1.273E-15 | -0.4589 | -3.976E-15 | 0.78937  | -1.213E-14 |
| 146   | 0.33659 | 4C26TB     | LinStatic | -1.273E-15 | -0.4589 | -3.976E-15 | 0.78937  | -1.079E-14 |
| 146   | 0.67318 | 4C26TB     | LinStatic | -1.273E-15 | -0.4589 | -3.976E-15 | 0.78937  | -9.456E-15 |
| 146   | 1.00977 | 4C26TB     | LinStatic | -1.273E-15 | -0.4589 | -3.976E-15 | 0.78937  | -8.118E-15 |
| 147   | 0.00000 | 4C26TB     | LinStatic | 1.965E-16  | -0.3909 | -3.735E-15 | 0.62535  | -1.305E-14 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|-----------|------------|------------|-------------|--------------|
| 147   | 0.33659      | 4C26TB     | LinStatic | 1.965E-16 | -0.3909    | -3.735E-15 | 0.62535     | -1.179E-14   |
| 147   | 0.67318      | 4C26TB     | LinStatic | 1.965E-16 | -0.3909    | -3.735E-15 | 0.62535     | -1.053E-14   |
| 147   | 1.00977      | 4C26TB     | LinStatic | 1.965E-16 | -0.3909    | -3.735E-15 | 0.62535     | -9.275E-15   |
| 148   | 0.00000      | 4C26TB     | LinStatic | 1.401E-15 | -0.3006    | -3.384E-15 | 0.44585     | -1.336E-14   |
| 148   | 0.33659      | 4C26TB     | LinStatic | 1.401E-15 | -0.3006    | -3.384E-15 | 0.44585     | -1.222E-14   |
| 148   | 0.67318      | 4C26TB     | LinStatic | 1.401E-15 | -0.3006    | -3.384E-15 | 0.44585     | -1.109E-14   |
| 148   | 1.00977      | 4C26TB     | LinStatic | 1.401E-15 | -0.3006    | -3.384E-15 | 0.44585     | -9.946E-15   |
| 149   | 0.00000      | 4C26TB     | LinStatic | 2.363E-15 | -0.1939    | -2.983E-15 | 0.25656     | -1.329E-14   |
| 149   | 0.33659      | 4C26TB     | LinStatic | 2.363E-15 | -0.1939    | -2.983E-15 | 0.25656     | -1.229E-14   |
| 149   | 0.67318      | 4C26TB     | LinStatic | 2.363E-15 | -0.1939    | -2.983E-15 | 0.25656     | -1.128E-14   |
| 149   | 1.00977      | 4C26TB     | LinStatic | 2.363E-15 | -0.1939    | -2.983E-15 | 0.25656     | -1.028E-14   |
| 150   | 0.00000      | 4C26TB     | LinStatic | 3.109E-15 | -0.0772    | -2.568E-15 | 0.06222     | -1.294E-14   |
| 150   | 0.33659      | 4C26TB     | LinStatic | 3.109E-15 | -0.0772    | -2.568E-15 | 0.06222     | -1.208E-14   |
| 150   | 0.67318      | 4C26TB     | LinStatic | 3.109E-15 | -0.0772    | -2.568E-15 | 0.06222     | -1.121E-14   |
| 150   | 1.00977      | 4C26TB     | LinStatic | 3.109E-15 | -0.0772    | -2.568E-15 | 0.06222     | -1.035E-14   |
| 151   | 0.00000      | 4C26TB     | LinStatic | 3.676E-15 | 0.0435     | -2.156E-15 | -0.13280    | -1.237E-14   |
| 151   | 0.33659      | 4C26TB     | LinStatic | 3.676E-15 | 0.0435     | -2.156E-15 | -0.13280    | -1.165E-14   |
| 151   | 0.67318      | 4C26TB     | LinStatic | 3.676E-15 | 0.0435     | -2.156E-15 | -0.13280    | -1.092E-14   |
| 151   | 1.00977      | 4C26TB     | LinStatic | 3.676E-15 | 0.0435     | -2.156E-15 | -0.13280    | -1.020E-14   |
| 152   | 0.00000      | 4C26TB     | LinStatic | 4.085E-15 | 0.1612     | -1.749E-15 | -0.32398    | -1.161E-14   |
| 152   | 0.33659      | 4C26TB     | LinStatic | 4.085E-15 | 0.1612     | -1.749E-15 | -0.32398    | -1.102E-14   |
| 152   | 0.67318      | 4C26TB     | LinStatic | 4.085E-15 | 0.1612     | -1.749E-15 | -0.32398    | -1.043E-14   |
| 152   | 1.00977      | 4C26TB     | LinStatic | 4.085E-15 | 0.1612     | -1.749E-15 | -0.32398    | -9.841E-15   |
| 153   | 0.00000      | 4C26TB     | LinStatic | 4.349E-15 | 0.2702     | -1.342E-15 | -0.50713    | -1.066E-14   |
| 153   | 0.33659      | 4C26TB     | LinStatic | 4.349E-15 | 0.2702     | -1.342E-15 | -0.50713    | -1.020E-14   |
| 153   | 0.67318      | 4C26TB     | LinStatic | 4.349E-15 | 0.2702     | -1.342E-15 | -0.50713    | -9.752E-15   |
| 153   | 1.00977      | 4C26TB     | LinStatic | 4.349E-15 | 0.2702     | -1.342E-15 | -0.50713    | -9.301E-15   |
| 154   | 0.00000      | 4C26TB     | LinStatic | 4.479E-15 | 0.3646     | -9.190E-16 | -0.67738    | -9.529E-15   |
| 154   | 0.33659      | 4C26TB     | LinStatic | 4.479E-15 | 0.3646     | -9.190E-16 | -0.67738    | -9.219E-15   |
| 154   | 0.67318      | 4C26TB     | LinStatic | 4.479E-15 | 0.3646     | -9.190E-16 | -0.67738    | -8.910E-15   |
| 154   | 1.00977      | 4C26TB     | LinStatic | 4.479E-15 | 0.3646     | -9.190E-16 | -0.67738    | -8.601E-15   |
| 155   | 0.00000      | 4C26TB     | LinStatic | 4.445E-15 | 0.4392     | -4.670E-16 | -0.82920    | -8.276E-15   |
| 155   | 0.33659      | 4C26TB     | LinStatic | 4.445E-15 | 0.4392     | -4.670E-16 | -0.82920    | -8.119E-15   |
| 155   | 0.67318      | 4C26TB     | LinStatic | 4.445E-15 | 0.4392     | -4.670E-16 | -0.82920    | -7.962E-15   |
| 155   | 1.00977      | 4C26TB     | LinStatic | 4.445E-15 | 0.4392     | -4.670E-16 | -0.82920    | -7.805E-15   |
| 156   | 0.00000      | 4C26TB     | LinStatic | 4.183E-15 | 0.4920     | 9.207E-19  | -0.95702    | -6.991E-15   |
| 156   | 0.33659      | 4C26TB     | LinStatic | 4.183E-15 | 0.4920     | 9.207E-19  | -0.95702    | -6.991E-15   |
| 156   | 0.67318      | 4C26TB     | LinStatic | 4.183E-15 | 0.4920     | 9.207E-19  | -0.95702    | -6.992E-15   |
| 156   | 1.00977      | 4C26TB     | LinStatic | 4.183E-15 | 0.4920     | 9.207E-19  | -0.95702    | -6.992E-15   |
| 157   | 0.00000      | 4C26TB     | LinStatic | 3.669E-15 | 0.5235     | 4.381E-16  | -1.05451    | -5.724E-15   |
| 157   | 0.33659      | 4C26TB     | LinStatic | 3.669E-15 | 0.5235     | 4.381E-16  | -1.05451    | -5.871E-15   |
| 157   | 0.67318      | 4C26TB     | LinStatic | 3.669E-15 | 0.5235     | 4.381E-16  | -1.05451    | -6.019E-15   |
| 157   | 1.00977      | 4C26TB     | LinStatic | 3.669E-15 | 0.5235     | 4.381E-16  | -1.05451    | -6.166E-15   |
| 158   | 0.00000      | 4C26TB     | LinStatic | 2.975E-15 | 0.5272     | 8.237E-16  | -1.10739    | -4.420E-15   |
| 158   | 0.33659      | 4C26TB     | LinStatic | 2.975E-15 | 0.5272     | 8.237E-16  | -1.10739    | -4.697E-15   |
| 158   | 0.67318      | 4C26TB     | LinStatic | 2.975E-15 | 0.5272     | 8.237E-16  | -1.10739    | -4.974E-15   |
| 158   | 1.00977      | 4C26TB     | LinStatic | 2.975E-15 | 0.5272     | 8.237E-16  | -1.10739    | -5.252E-15   |
| 159   | 0.00000      | 4C26TB     | LinStatic | 2.236E-15 | 0.4663     | 1.266E-15  | -1.07463    | -2.939E-15   |
| 159   | 0.33659      | 4C26TB     | LinStatic | 2.236E-15 | 0.4663     | 1.266E-15  | -1.07463    | -3.365E-15   |
| 159   | 0.67318      | 4C26TB     | LinStatic | 2.236E-15 | 0.4663     | 1.266E-15  | -1.07463    | -3.791E-15   |
| 159   | 1.00977      | 4C26TB     | LinStatic | 2.236E-15 | 0.4663     | 1.266E-15  | -1.07463    | -4.217E-15   |
| 160   | 0.00000      | 4C26TB     | LinStatic | 1.479E-15 | 0.2110     | 2.178E-15  | -0.83234    | -1.237E-15   |
| 160   | 0.33659      | 4C26TB     | LinStatic | 1.479E-15 | 0.2110     | 2.178E-15  | -0.83234    | -1.970E-15   |
| 160   | 0.67318      | 4C26TB     | LinStatic | 1.479E-15 | 0.2110     | 2.178E-15  | -0.83234    | -2.703E-15   |
| 160   | 1.00977      | 4C26TB     | LinStatic | 1.479E-15 | 0.2110     | 2.178E-15  | -0.83234    | -3.437E-15   |
| 161   | 0.00000      | 4C26TB     | LinStatic | 0.0000    | 0.8638     | -5.622E-15 | 0.44299     | -6.249E-15   |
| 161   | 0.46695      | 4C26TB     | LinStatic | 0.0000    | 0.8638     | -5.622E-15 | 0.44299     | -3.624E-15   |
| 161   | 0.93391      | 4C26TB     | LinStatic | 0.0000    | 0.8638     | -5.622E-15 | 0.44299     | -9.988E-16   |
| 161   | 1.40086      | 4C26TB     | LinStatic | 0.0000    | 0.8638     | -5.622E-15 | 0.44299     | 1.627E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|---------|------------|-----------|------------|---------|------------|----------|------------|
|       |         |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 161   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | 0.8638  | -5.622E-15 | 0.44299  | 4.252E-15  |
| 162   | 0.00000 | 4C26TB     | LinStatic | 0.0000     | 0.8659  | -5.726E-15 | 0.46603  | -4.029E-15 |
| 162   | 0.46695 | 4C26TB     | LinStatic | 0.0000     | 0.8659  | -5.726E-15 | 0.46603  | -1.355E-15 |
| 162   | 0.93391 | 4C26TB     | LinStatic | 0.0000     | 0.8659  | -5.726E-15 | 0.46603  | 1.319E-15  |
| 162   | 1.40086 | 4C26TB     | LinStatic | 0.0000     | 0.8659  | -5.726E-15 | 0.46603  | 3.992E-15  |
| 162   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | 0.8659  | -5.726E-15 | 0.46603  | 6.666E-15  |
| 163   | 0.00000 | 4C26TB     | LinStatic | 0.0000     | 0.5440  | -7.487E-15 | 0.27622  | -2.860E-15 |
| 163   | 0.46695 | 4C26TB     | LinStatic | 0.0000     | 0.5440  | -7.487E-15 | 0.27622  | 6.363E-16  |
| 163   | 0.93391 | 4C26TB     | LinStatic | 0.0000     | 0.5440  | -7.487E-15 | 0.27622  | 4.132E-15  |
| 163   | 1.40086 | 4C26TB     | LinStatic | 0.0000     | 0.5440  | -7.487E-15 | 0.27622  | 7.628E-15  |
| 163   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | 0.5440  | -7.487E-15 | 0.27622  | 1.112E-14  |
| 164   | 0.00000 | 4C26TB     | LinStatic | 0.0000     | 0.0335  | -1.262E-14 | 0.00765  | -1.993E-17 |
| 164   | 0.46695 | 4C26TB     | LinStatic | 0.0000     | 0.0335  | -1.262E-14 | 0.00765  | 5.875E-15  |
| 164   | 0.93391 | 4C26TB     | LinStatic | 0.0000     | 0.0335  | -1.262E-14 | 0.00765  | 1.177E-14  |
| 164   | 1.40086 | 4C26TB     | LinStatic | 0.0000     | 0.0335  | -1.262E-14 | 0.00765  | 1.766E-14  |
| 164   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | 0.0335  | -1.262E-14 | 0.00765  | 2.356E-14  |
| 165   | 0.00000 | 4C26TB     | LinStatic | 0.0000     | -0.4832 | -2.937E-14 | -0.25246 | 1.264E-14  |
| 165   | 0.46695 | 4C26TB     | LinStatic | 0.0000     | -0.4832 | -2.937E-14 | -0.25246 | 2.636E-14  |
| 165   | 0.93391 | 4C26TB     | LinStatic | 0.0000     | -0.4832 | -2.937E-14 | -0.25246 | 4.007E-14  |
| 165   | 1.40086 | 4C26TB     | LinStatic | 0.0000     | -0.4832 | -2.937E-14 | -0.25246 | 5.379E-14  |
| 165   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | -0.4832 | -2.937E-14 | -0.25246 | 6.750E-14  |
| 166   | 0.00000 | 4C26TB     | LinStatic | 0.0000     | -0.8209 | 1.009E-13  | -0.46200 | 9.031E-14  |
| 166   | 0.46695 | 4C26TB     | LinStatic | 0.0000     | -0.8209 | 1.009E-13  | -0.46200 | 4.321E-14  |
| 166   | 0.93391 | 4C26TB     | LinStatic | 0.0000     | -0.8209 | 1.009E-13  | -0.46200 | -3.882E-15 |
| 166   | 1.40086 | 4C26TB     | LinStatic | 0.0000     | -0.8209 | 1.009E-13  | -0.46200 | -5.098E-14 |
| 166   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | -0.8209 | 1.009E-13  | -0.46200 | -9.807E-14 |
| 167   | 0.00000 | 4C26TB     | LinStatic | 0.0000     | -0.9455 | -4.881E-14 | -0.45332 | -7.689E-14 |
| 167   | 0.46695 | 4C26TB     | LinStatic | 0.0000     | -0.9455 | -4.881E-14 | -0.45332 | -5.410E-14 |
| 167   | 0.93391 | 4C26TB     | LinStatic | 0.0000     | -0.9455 | -4.881E-14 | -0.45332 | -3.131E-14 |
| 167   | 1.40086 | 4C26TB     | LinStatic | 0.0000     | -0.9455 | -4.881E-14 | -0.45332 | -8.521E-15 |
| 167   | 1.86781 | 4C26TB     | LinStatic | 0.0000     | -0.9455 | -4.881E-14 | -0.45332 | 1.427E-14  |
| 168   | 0.00000 | 4C26TB     | LinStatic | -1.760E-16 | 0.2553  | -4.369E-15 | 0.43561  | -4.867E-15 |
| 168   | 0.46695 | 4C26TB     | LinStatic | -1.760E-16 | 0.2553  | -4.369E-15 | 0.43561  | -2.827E-15 |
| 168   | 0.93391 | 4C26TB     | LinStatic | -1.760E-16 | 0.2553  | -4.369E-15 | 0.43561  | -7.864E-16 |
| 168   | 1.40086 | 4C26TB     | LinStatic | -1.760E-16 | 0.2553  | -4.369E-15 | 0.43561  | 1.254E-15  |
| 168   | 1.86781 | 4C26TB     | LinStatic | -1.760E-16 | 0.2553  | -4.369E-15 | 0.43561  | 3.294E-15  |
| 169   | 0.00000 | 4C26TB     | LinStatic | -4.232E-16 | 0.1273  | -5.922E-15 | 0.46250  | -3.965E-15 |
| 169   | 0.46695 | 4C26TB     | LinStatic | -4.232E-16 | 0.1273  | -5.922E-15 | 0.46250  | -1.199E-15 |
| 169   | 0.93391 | 4C26TB     | LinStatic | -4.232E-16 | 0.1273  | -5.922E-15 | 0.46250  | 1.566E-15  |
| 169   | 1.40086 | 4C26TB     | LinStatic | -4.232E-16 | 0.1273  | -5.922E-15 | 0.46250  | 4.331E-15  |
| 169   | 1.86781 | 4C26TB     | LinStatic | -4.232E-16 | 0.1273  | -5.922E-15 | 0.46250  | 7.097E-15  |
| 170   | 0.00000 | 4C26TB     | LinStatic | -7.221E-16 | 0.1594  | -7.515E-15 | 0.28163  | -1.927E-15 |
| 170   | 0.46695 | 4C26TB     | LinStatic | -7.221E-16 | 0.1594  | -7.515E-15 | 0.28163  | 1.582E-15  |
| 170   | 0.93391 | 4C26TB     | LinStatic | -7.221E-16 | 0.1594  | -7.515E-15 | 0.28163  | 5.091E-15  |
| 170   | 1.40086 | 4C26TB     | LinStatic | -7.221E-16 | 0.1594  | -7.515E-15 | 0.28163  | 8.600E-15  |
| 170   | 1.86781 | 4C26TB     | LinStatic | -7.221E-16 | 0.1594  | -7.515E-15 | 0.28163  | 1.211E-14  |
| 171   | 0.00000 | 4C26TB     | LinStatic | -1.316E-15 | 0.0411  | -9.648E-15 | 0.01814  | 3.767E-15  |
| 171   | 0.46695 | 4C26TB     | LinStatic | -1.316E-15 | 0.0411  | -9.648E-15 | 0.01814  | 8.272E-15  |
| 171   | 0.93391 | 4C26TB     | LinStatic | -1.316E-15 | 0.0411  | -9.648E-15 | 0.01814  | 1.278E-14  |
| 171   | 1.40086 | 4C26TB     | LinStatic | -1.316E-15 | 0.0411  | -9.648E-15 | 0.01814  | 1.728E-14  |
| 171   | 1.86781 | 4C26TB     | LinStatic | -1.316E-15 | 0.0411  | -9.648E-15 | 0.01814  | 2.179E-14  |
| 172   | 0.00000 | 4C26TB     | LinStatic | -2.499E-15 | -0.1134 | -7.516E-15 | -0.23961 | 2.134E-14  |
| 172   | 0.46695 | 4C26TB     | LinStatic | -2.499E-15 | -0.1134 | -7.516E-15 | -0.23961 | 2.485E-14  |
| 172   | 0.93391 | 4C26TB     | LinStatic | -2.499E-15 | -0.1134 | -7.516E-15 | -0.23961 | 2.836E-14  |
| 172   | 1.40086 | 4C26TB     | LinStatic | -2.499E-15 | -0.1134 | -7.516E-15 | -0.23961 | 3.187E-14  |
| 172   | 1.86781 | 4C26TB     | LinStatic | -2.499E-15 | -0.1134 | -7.516E-15 | -0.23961 | 3.538E-14  |
| 173   | 0.00000 | 4C26TB     | LinStatic | 7.328E-16  | -0.0796 | 4.898E-14  | -0.45148 | 4.423E-14  |
| 173   | 0.46695 | 4C26TB     | LinStatic | 7.328E-16  | -0.0796 | 4.898E-14  | -0.45148 | 2.136E-14  |
| 173   | 0.93391 | 4C26TB     | LinStatic | 7.328E-16  | -0.0796 | 4.898E-14  | -0.45148 | -1.510E-15 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 173   | 1.40086      | 4C26TB     | LinStatic | 7.328E-16  | -0.0796    | 4.898E-14  | -0.45148    | -2.438E-14   |
| 173   | 1.86781      | 4C26TB     | LinStatic | 7.328E-16  | -0.0796    | 4.898E-14  | -0.45148    | -4.725E-14   |
| 174   | 0.00000      | 4C26TB     | LinStatic | 1.149E-15  | -0.3119    | -1.526E-14 | -0.44876    | -3.442E-14   |
| 174   | 0.46695      | 4C26TB     | LinStatic | 1.149E-15  | -0.3119    | -1.526E-14 | -0.44876    | -2.730E-14   |
| 174   | 0.93391      | 4C26TB     | LinStatic | 1.149E-15  | -0.3119    | -1.526E-14 | -0.44876    | -2.017E-14   |
| 174   | 1.40086      | 4C26TB     | LinStatic | 1.149E-15  | -0.3119    | -1.526E-14 | -0.44876    | -1.305E-14   |
| 174   | 1.86781      | 4C26TB     | LinStatic | 1.149E-15  | -0.3119    | -1.526E-14 | -0.44876    | -5.925E-15   |
| 175   | 0.00000      | 4C26TB     | LinStatic | -3.627E-16 | 0.0609     | -3.763E-15 | 0.41611     | -4.234E-15   |
| 175   | 0.46695      | 4C26TB     | LinStatic | -3.627E-16 | 0.0609     | -3.763E-15 | 0.41611     | -2.477E-15   |
| 175   | 0.93391      | 4C26TB     | LinStatic | -3.627E-16 | 0.0609     | -3.763E-15 | 0.41611     | -7.203E-16   |
| 175   | 1.40086      | 4C26TB     | LinStatic | -3.627E-16 | 0.0609     | -3.763E-15 | 0.41611     | 1.037E-15    |
| 175   | 1.86781      | 4C26TB     | LinStatic | -3.627E-16 | 0.0609     | -3.763E-15 | 0.41611     | 2.794E-15    |
| 176   | 0.00000      | 4C26TB     | LinStatic | -8.545E-16 | -0.2123    | -5.759E-15 | 0.44538     | -3.606E-15   |
| 176   | 0.46695      | 4C26TB     | LinStatic | -8.545E-16 | -0.2123    | -5.759E-15 | 0.44538     | -9.165E-16   |
| 176   | 0.93391      | 4C26TB     | LinStatic | -8.545E-16 | -0.2123    | -5.759E-15 | 0.44538     | 1.773E-15    |
| 176   | 1.40086      | 4C26TB     | LinStatic | -8.545E-16 | -0.2123    | -5.759E-15 | 0.44538     | 4.462E-15    |
| 176   | 1.86781      | 4C26TB     | LinStatic | -8.545E-16 | -0.2123    | -5.759E-15 | 0.44538     | 7.151E-15    |
| 177   | 0.00000      | 4C26TB     | LinStatic | -1.460E-15 | 0.0160     | -6.921E-15 | 0.28149     | -7.561E-16   |
| 177   | 0.46695      | 4C26TB     | LinStatic | -1.460E-15 | 0.0160     | -6.921E-15 | 0.28149     | 2.476E-15    |
| 177   | 0.93391      | 4C26TB     | LinStatic | -1.460E-15 | 0.0160     | -6.921E-15 | 0.28149     | 5.708E-15    |
| 177   | 1.40086      | 4C26TB     | LinStatic | -1.460E-15 | 0.0160     | -6.921E-15 | 0.28149     | 8.940E-15    |
| 177   | 1.86781      | 4C26TB     | LinStatic | -1.460E-15 | 0.0160     | -6.921E-15 | 0.28149     | 1.217E-14    |
| 178   | 0.00000      | 4C26TB     | LinStatic | -2.402E-15 | 0.0447     | -6.746E-15 | 0.03192     | 5.795E-15    |
| 178   | 0.46695      | 4C26TB     | LinStatic | -2.402E-15 | 0.0447     | -6.746E-15 | 0.03192     | 8.945E-15    |
| 178   | 0.93391      | 4C26TB     | LinStatic | -2.402E-15 | 0.0447     | -6.746E-15 | 0.03192     | 1.210E-14    |
| 178   | 1.40086      | 4C26TB     | LinStatic | -2.402E-15 | 0.0447     | -6.746E-15 | 0.03192     | 1.524E-14    |
| 178   | 1.86781      | 4C26TB     | LinStatic | -2.402E-15 | 0.0447     | -6.746E-15 | 0.03192     | 1.839E-14    |
| 179   | 0.00000      | 4C26TB     | LinStatic | -3.364E-15 | 0.0175     | 4.505E-17  | -0.21756    | 1.904E-14    |
| 179   | 0.46695      | 4C26TB     | LinStatic | -3.364E-15 | 0.0175     | 4.505E-17  | -0.21756    | 1.902E-14    |
| 179   | 0.93391      | 4C26TB     | LinStatic | -3.364E-15 | 0.0175     | 4.505E-17  | -0.21756    | 1.900E-14    |
| 179   | 1.40086      | 4C26TB     | LinStatic | -3.364E-15 | 0.0175     | 4.505E-17  | -0.21756    | 1.898E-14    |
| 179   | 1.86781      | 4C26TB     | LinStatic | -3.364E-15 | 0.0175     | 4.505E-17  | -0.21756    | 1.896E-14    |
| 180   | 0.00000      | 4C26TB     | LinStatic | 3.964E-16  | 0.2578     | 2.683E-14  | -0.42528    | 2.612E-14    |
| 180   | 0.46695      | 4C26TB     | LinStatic | 3.964E-16  | 0.2578     | 2.683E-14  | -0.42528    | 1.359E-14    |
| 180   | 0.93391      | 4C26TB     | LinStatic | 3.964E-16  | 0.2578     | 2.683E-14  | -0.42528    | 1.060E-15    |
| 180   | 1.40086      | 4C26TB     | LinStatic | 3.964E-16  | 0.2578     | 2.683E-14  | -0.42528    | -1.147E-14   |
| 180   | 1.86781      | 4C26TB     | LinStatic | 3.964E-16  | 0.2578     | 2.683E-14  | -0.42528    | -2.400E-14   |
| 181   | 0.00000      | 4C26TB     | LinStatic | 1.329E-15  | -0.1022    | -3.383E-15 | -0.43139    | -1.549E-14   |
| 181   | 0.46695      | 4C26TB     | LinStatic | 1.329E-15  | -0.1022    | -3.383E-15 | -0.43139    | -1.391E-14   |
| 181   | 0.93391      | 4C26TB     | LinStatic | 1.329E-15  | -0.1022    | -3.383E-15 | -0.43139    | -1.233E-14   |
| 181   | 1.40086      | 4C26TB     | LinStatic | 1.329E-15  | -0.1022    | -3.383E-15 | -0.43139    | -1.075E-14   |
| 181   | 1.86781      | 4C26TB     | LinStatic | 1.329E-15  | -0.1022    | -3.383E-15 | -0.43139    | -9.173E-15   |
| 182   | 0.00000      | 4C26TB     | LinStatic | -5.352E-16 | -0.0037    | -3.367E-15 | 0.38618     | -3.837E-15   |
| 182   | 0.46695      | 4C26TB     | LinStatic | -5.352E-16 | -0.0037    | -3.367E-15 | 0.38618     | -2.265E-15   |
| 182   | 0.93391      | 4C26TB     | LinStatic | -5.352E-16 | -0.0037    | -3.367E-15 | 0.38618     | -6.922E-16   |
| 182   | 1.40086      | 4C26TB     | LinStatic | -5.352E-16 | -0.0037    | -3.367E-15 | 0.38618     | 8.801E-16    |
| 182   | 1.86781      | 4C26TB     | LinStatic | -5.352E-16 | -0.0037    | -3.367E-15 | 0.38618     | 2.452E-15    |
| 183   | 0.00000      | 4C26TB     | LinStatic | -1.248E-15 | -0.4159    | -5.341E-15 | 0.41279     | -3.169E-15   |
| 183   | 0.46695      | 4C26TB     | LinStatic | -1.248E-15 | -0.4159    | -5.341E-15 | 0.41279     | -6.746E-16   |
| 183   | 0.93391      | 4C26TB     | LinStatic | -1.248E-15 | -0.4159    | -5.341E-15 | 0.41279     | 1.819E-15    |
| 183   | 1.40086      | 4C26TB     | LinStatic | -1.248E-15 | -0.4159    | -5.341E-15 | 0.41279     | 4.313E-15    |
| 183   | 1.86781      | 4C26TB     | LinStatic | -1.248E-15 | -0.4159    | -5.341E-15 | 0.41279     | 6.807E-15    |
| 184   | 0.00000      | 4C26TB     | LinStatic | -2.077E-15 | -0.0502    | -5.977E-15 | 0.27380     | 1.094E-16    |
| 184   | 0.46695      | 4C26TB     | LinStatic | -2.077E-15 | -0.0502    | -5.977E-15 | 0.27380     | 2.901E-15    |
| 184   | 0.93391      | 4C26TB     | LinStatic | -2.077E-15 | -0.0502    | -5.977E-15 | 0.27380     | 5.692E-15    |
| 184   | 1.40086      | 4C26TB     | LinStatic | -2.077E-15 | -0.0502    | -5.977E-15 | 0.27380     | 8.483E-15    |
| 184   | 1.86781      | 4C26TB     | LinStatic | -2.077E-15 | -0.0502    | -5.977E-15 | 0.27380     | 1.127E-14    |
| 185   | 0.00000      | 4C26TB     | LinStatic | -3.090E-15 | 0.0409     | -4.486E-15 | 0.04659     | 6.241E-15    |
| 185   | 0.46695      | 4C26TB     | LinStatic | -3.090E-15 | 0.0409     | -4.486E-15 | 0.04659     | 8.335E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | Case Element Forces - Frames, Part 1 of 2 |         |            |          |            |
|-------|---------|------------|-----------|-------------------------------------------|---------|------------|----------|------------|
|       |         |            |           | P                                         | V2      | V3         | T        | M2         |
|       | m       |            |           | Tonf                                      | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 185   | 0.93391 | 4C26TB     | LinStatic | -3.090E-15                                | 0.0409  | -4.486E-15 | 0.04659  | 1.043E-14  |
| 185   | 1.40086 | 4C26TB     | LinStatic | -3.090E-15                                | 0.0409  | -4.486E-15 | 0.04659  | 1.252E-14  |
| 185   | 1.86781 | 4C26TB     | LinStatic | -3.090E-15                                | 0.0409  | -4.486E-15 | 0.04659  | 1.462E-14  |
| 186   | 0.00000 | 4C26TB     | LinStatic | -3.541E-15                                | 0.0768  | 2.399E-15  | -0.18955 | 1.511E-14  |
| 186   | 0.46695 | 4C26TB     | LinStatic | -3.541E-15                                | 0.0768  | 2.399E-15  | -0.18955 | 1.399E-14  |
| 186   | 0.93391 | 4C26TB     | LinStatic | -3.541E-15                                | 0.0768  | 2.399E-15  | -0.18955 | 1.287E-14  |
| 186   | 1.40086 | 4C26TB     | LinStatic | -3.541E-15                                | 0.0768  | 2.399E-15  | -0.18955 | 1.175E-14  |
| 186   | 1.86781 | 4C26TB     | LinStatic | -3.541E-15                                | 0.0768  | 2.399E-15  | -0.18955 | 1.063E-14  |
| 187   | 0.00000 | 4C26TB     | LinStatic | -2.818E-16                                | 0.4532  | 1.647E-14  | -0.38290 | 1.728E-14  |
| 187   | 0.46695 | 4C26TB     | LinStatic | -2.818E-16                                | 0.4532  | 1.647E-14  | -0.38290 | 9.588E-15  |
| 187   | 0.93391 | 4C26TB     | LinStatic | -2.818E-16                                | 0.4532  | 1.647E-14  | -0.38290 | 1.899E-15  |
| 187   | 1.40086 | 4C26TB     | LinStatic | -2.818E-16                                | 0.4532  | 1.647E-14  | -0.38290 | -5.789E-15 |
| 187   | 1.86781 | 4C26TB     | LinStatic | -2.818E-16                                | 0.4532  | 1.647E-14  | -0.38290 | -1.348E-14 |
| 188   | 0.00000 | 4C26TB     | LinStatic | 9.828E-16                                 | -0.0261 | 5.852E-16  | -0.40238 | -7.298E-15 |
| 188   | 0.46695 | 4C26TB     | LinStatic | 9.828E-16                                 | -0.0261 | 5.852E-16  | -0.40238 | -7.572E-15 |
| 188   | 0.93391 | 4C26TB     | LinStatic | 9.828E-16                                 | -0.0261 | 5.852E-16  | -0.40238 | -7.845E-15 |
| 188   | 1.40086 | 4C26TB     | LinStatic | 9.828E-16                                 | -0.0261 | 5.852E-16  | -0.40238 | -8.118E-15 |
| 188   | 1.86781 | 4C26TB     | LinStatic | 9.828E-16                                 | -0.0261 | 5.852E-16  | -0.40238 | -8.391E-15 |
| 189   | 0.00000 | 4C26TB     | LinStatic | -6.746E-16                                | -0.0315 | -3.004E-15 | 0.34719  | -3.488E-15 |
| 189   | 0.46695 | 4C26TB     | LinStatic | -6.746E-16                                | -0.0315 | -3.004E-15 | 0.34719  | -2.086E-15 |
| 189   | 0.93391 | 4C26TB     | LinStatic | -6.746E-16                                | -0.0315 | -3.004E-15 | 0.34719  | -6.834E-16 |
| 189   | 1.40086 | 4C26TB     | LinStatic | -6.746E-16                                | -0.0315 | -3.004E-15 | 0.34719  | 7.192E-16  |
| 189   | 1.86781 | 4C26TB     | LinStatic | -6.746E-16                                | -0.0315 | -3.004E-15 | 0.34719  | 2.122E-15  |
| 190   | 0.00000 | 4C26TB     | LinStatic | -1.547E-15                                | -0.5502 | -4.733E-15 | 0.36603  | -2.755E-15 |
| 190   | 0.46695 | 4C26TB     | LinStatic | -1.547E-15                                | -0.5502 | -4.733E-15 | 0.36603  | -5.444E-16 |
| 190   | 0.93391 | 4C26TB     | LinStatic | -1.547E-15                                | -0.5502 | -4.733E-15 | 0.36603  | 1.666E-15  |
| 190   | 1.40086 | 4C26TB     | LinStatic | -1.547E-15                                | -0.5502 | -4.733E-15 | 0.36603  | 3.876E-15  |
| 190   | 1.86781 | 4C26TB     | LinStatic | -1.547E-15                                | -0.5502 | -4.733E-15 | 0.36603  | 6.086E-15  |
| 191   | 0.00000 | 4C26TB     | LinStatic | -2.493E-15                                | -0.0901 | -4.893E-15 | 0.25972  | 6.519E-16  |
| 191   | 0.46695 | 4C26TB     | LinStatic | -2.493E-15                                | -0.0901 | -4.893E-15 | 0.25972  | 2.937E-15  |
| 191   | 0.93391 | 4C26TB     | LinStatic | -2.493E-15                                | -0.0901 | -4.893E-15 | 0.25972  | 5.221E-15  |
| 191   | 1.40086 | 4C26TB     | LinStatic | -2.493E-15                                | -0.0901 | -4.893E-15 | 0.25972  | 7.506E-15  |
| 191   | 1.86781 | 4C26TB     | LinStatic | -2.493E-15                                | -0.0901 | -4.893E-15 | 0.25972  | 9.791E-15  |
| 192   | 0.00000 | 4C26TB     | LinStatic | -3.420E-15                                | 0.0262  | -2.835E-15 | 0.05985  | 5.894E-15  |
| 192   | 0.46695 | 4C26TB     | LinStatic | -3.420E-15                                | 0.0262  | -2.835E-15 | 0.05985  | 7.218E-15  |
| 192   | 0.93391 | 4C26TB     | LinStatic | -3.420E-15                                | 0.0262  | -2.835E-15 | 0.05985  | 8.542E-15  |
| 192   | 1.40086 | 4C26TB     | LinStatic | -3.420E-15                                | 0.0262  | -2.835E-15 | 0.05985  | 9.866E-15  |
| 192   | 1.86781 | 4C26TB     | LinStatic | -3.420E-15                                | 0.0262  | -2.835E-15 | 0.05985  | 1.119E-14  |
| 193   | 0.00000 | 4C26TB     | LinStatic | -3.445E-15                                | 0.1229  | 2.950E-15  | -0.15619 | 1.160E-14  |
| 193   | 0.46695 | 4C26TB     | LinStatic | -3.445E-15                                | 0.1229  | 2.950E-15  | -0.15619 | 1.022E-14  |
| 193   | 0.93391 | 4C26TB     | LinStatic | -3.445E-15                                | 0.1229  | 2.950E-15  | -0.15619 | 8.846E-15  |
| 193   | 1.40086 | 4C26TB     | LinStatic | -3.445E-15                                | 0.1229  | 2.950E-15  | -0.15619 | 7.468E-15  |
| 193   | 1.86781 | 4C26TB     | LinStatic | -3.445E-15                                | 0.1229  | 2.950E-15  | -0.15619 | 6.091E-15  |
| 194   | 0.00000 | 4C26TB     | LinStatic | -8.358E-16                                | 0.5698  | 1.095E-14  | -0.32748 | 1.160E-14  |
| 194   | 0.46695 | 4C26TB     | LinStatic | -8.358E-16                                | 0.5698  | 1.095E-14  | -0.32748 | 6.489E-15  |
| 194   | 0.93391 | 4C26TB     | LinStatic | -8.358E-16                                | 0.5698  | 1.095E-14  | -0.32748 | 1.378E-15  |
| 194   | 1.40086 | 4C26TB     | LinStatic | -8.358E-16                                | 0.5698  | 1.095E-14  | -0.32748 | -3.734E-15 |
| 194   | 1.86781 | 4C26TB     | LinStatic | -8.358E-16                                | 0.5698  | 1.095E-14  | -0.32748 | -8.846E-15 |
| 195   | 0.00000 | 4C26TB     | LinStatic | 5.255E-16                                 | 0.0117  | 1.653E-15  | -0.36301 | -3.991E-15 |
| 195   | 0.46695 | 4C26TB     | LinStatic | 5.255E-16                                 | 0.0117  | 1.653E-15  | -0.36301 | -4.763E-15 |
| 195   | 0.93391 | 4C26TB     | LinStatic | 5.255E-16                                 | 0.0117  | 1.653E-15  | -0.36301 | -5.534E-15 |
| 195   | 1.40086 | 4C26TB     | LinStatic | 5.255E-16                                 | 0.0117  | 1.653E-15  | -0.36301 | -6.306E-15 |
| 195   | 1.86781 | 4C26TB     | LinStatic | 5.255E-16                                 | 0.0117  | 1.653E-15  | -0.36301 | -7.078E-15 |
| 196   | 0.00000 | 4C26TB     | LinStatic | -7.688E-16                                | -0.0527 | -2.620E-15 | 0.30056  | -3.124E-15 |
| 196   | 0.46695 | 4C26TB     | LinStatic | -7.688E-16                                | -0.0527 | -2.620E-15 | 0.30056  | -1.901E-15 |
| 196   | 0.93391 | 4C26TB     | LinStatic | -7.688E-16                                | -0.0527 | -2.620E-15 | 0.30056  | -6.773E-16 |
| 196   | 1.40086 | 4C26TB     | LinStatic | -7.688E-16                                | -0.0527 | -2.620E-15 | 0.30056  | 5.461E-16  |
| 196   | 1.86781 | 4C26TB     | LinStatic | -7.688E-16                                | -0.0527 | -2.620E-15 | 0.30056  | 1.770E-15  |
| 197   | 0.00000 | 4C26TB     | LinStatic | -1.727E-15                                | -0.6298 | -0.626E-15 | 0.31074  | -2.367E-15 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 197   | 0.46695      | 4C26TB     | LinStatic | -1.727E-15 | -0.6298    | -4.026E-15 | 0.31074     | -4.870E-16   |
| 197   | 0.93391      | 4C26TB     | LinStatic | -1.727E-15 | -0.6298    | -4.026E-15 | 0.31074     | 1.393E-15    |
| 197   | 1.40086      | 4C26TB     | LinStatic | -1.727E-15 | -0.6298    | -4.026E-15 | 0.31074     | 3.273E-15    |
| 197   | 1.86781      | 4C26TB     | LinStatic | -1.727E-15 | -0.6298    | -4.026E-15 | 0.31074     | 5.153E-15    |
| 198   | 0.00000      | 4C26TB     | LinStatic | -2.704E-15 | -0.1270    | -3.842E-15 | 0.24126     | 9.746E-16    |
| 198   | 0.46695      | 4C26TB     | LinStatic | -2.704E-15 | -0.1270    | -3.842E-15 | 0.24126     | 2.769E-15    |
| 198   | 0.93391      | 4C26TB     | LinStatic | -2.704E-15 | -0.1270    | -3.842E-15 | 0.24126     | 4.563E-15    |
| 198   | 1.40086      | 4C26TB     | LinStatic | -2.704E-15 | -0.1270    | -3.842E-15 | 0.24126     | 6.357E-15    |
| 198   | 1.86781      | 4C26TB     | LinStatic | -2.704E-15 | -0.1270    | -3.842E-15 | 0.24126     | 8.151E-15    |
| 199   | 0.00000      | 4C26TB     | LinStatic | -3.481E-15 | 0.0106     | -1.687E-15 | 0.06984     | 5.229E-15    |
| 199   | 0.46695      | 4C26TB     | LinStatic | -3.481E-15 | 0.0106     | -1.687E-15 | 0.06984     | 6.017E-15    |
| 199   | 0.93391      | 4C26TB     | LinStatic | -3.481E-15 | 0.0106     | -1.687E-15 | 0.06984     | 6.804E-15    |
| 199   | 1.40086      | 4C26TB     | LinStatic | -3.481E-15 | 0.0106     | -1.687E-15 | 0.06984     | 7.592E-15    |
| 199   | 1.86781      | 4C26TB     | LinStatic | -3.481E-15 | 0.0106     | -1.687E-15 | 0.06984     | 8.380E-15    |
| 200   | 0.00000      | 4C26TB     | LinStatic | -3.229E-15 | 0.1658     | 2.867E-15  | -0.11765    | 8.853E-15    |
| 200   | 0.46695      | 4C26TB     | LinStatic | -3.229E-15 | 0.1658     | 2.867E-15  | -0.11765    | 7.514E-15    |
| 200   | 0.93391      | 4C26TB     | LinStatic | -3.229E-15 | 0.1658     | 2.867E-15  | -0.11765    | 6.175E-15    |
| 200   | 1.40086      | 4C26TB     | LinStatic | -3.229E-15 | 0.1658     | 2.867E-15  | -0.11765    | 4.836E-15    |
| 200   | 1.86781      | 4C26TB     | LinStatic | -3.229E-15 | 0.1658     | 2.867E-15  | -0.11765    | 3.497E-15    |
| 201   | 0.00000      | 4C26TB     | LinStatic | -1.140E-15 | 0.6327     | 7.642E-15  | -0.26630    | 7.602E-15    |
| 201   | 0.46695      | 4C26TB     | LinStatic | -1.140E-15 | 0.6327     | 7.642E-15  | -0.26630    | 4.034E-15    |
| 201   | 0.93391      | 4C26TB     | LinStatic | -1.140E-15 | 0.6327     | 7.642E-15  | -0.26630    | 4.655E-16    |
| 201   | 1.40086      | 4C26TB     | LinStatic | -1.140E-15 | 0.6327     | 7.642E-15  | -0.26630    | -3.103E-15   |
| 201   | 1.86781      | 4C26TB     | LinStatic | -1.140E-15 | 0.6327     | 7.642E-15  | -0.26630    | -6.671E-15   |
| 202   | 0.00000      | 4C26TB     | LinStatic | 1.584E-16  | 0.0410     | 1.710E-15  | -0.31488    | -2.737E-15   |
| 202   | 0.46695      | 4C26TB     | LinStatic | 1.584E-16  | 0.0410     | 1.710E-15  | -0.31488    | -3.535E-15   |
| 202   | 0.93391      | 4C26TB     | LinStatic | 1.584E-16  | 0.0410     | 1.710E-15  | -0.31488    | -4.334E-15   |
| 202   | 1.40086      | 4C26TB     | LinStatic | 1.584E-16  | 0.0410     | 1.710E-15  | -0.31488    | -5.132E-15   |
| 202   | 1.86781      | 4C26TB     | LinStatic | 1.584E-16  | 0.0410     | 1.710E-15  | -0.31488    | -5.930E-15   |
| 203   | 0.00000      | 4C26TB     | LinStatic | -8.161E-16 | -0.0746    | -2.220E-15 | 0.24765     | -2.725E-15   |
| 203   | 0.46695      | 4C26TB     | LinStatic | -8.161E-16 | -0.0746    | -2.220E-15 | 0.24765     | -1.689E-15   |
| 203   | 0.93391      | 4C26TB     | LinStatic | -8.161E-16 | -0.0746    | -2.220E-15 | 0.24765     | -6.520E-16   |
| 203   | 1.40086      | 4C26TB     | LinStatic | -8.161E-16 | -0.0746    | -2.220E-15 | 0.24765     | 3.847E-16    |
| 203   | 1.86781      | 4C26TB     | LinStatic | -8.161E-16 | -0.0746    | -2.220E-15 | 0.24765     | 1.421E-15    |
| 204   | 0.00000      | 4C26TB     | LinStatic | -1.788E-15 | -0.6635    | -3.318E-15 | 0.25490     | -1.950E-15   |
| 204   | 0.46695      | 4C26TB     | LinStatic | -1.788E-15 | -0.6635    | -3.318E-15 | 0.25490     | -4.010E-16   |
| 204   | 0.93391      | 4C26TB     | LinStatic | -1.788E-15 | -0.6635    | -3.318E-15 | 0.25490     | 1.148E-15    |
| 204   | 1.40086      | 4C26TB     | LinStatic | -1.788E-15 | -0.6635    | -3.318E-15 | 0.25490     | 2.697E-15    |
| 204   | 1.86781      | 4C26TB     | LinStatic | -1.788E-15 | -0.6635    | -3.318E-15 | 0.25490     | 4.247E-15    |
| 205   | 0.00000      | 4C26TB     | LinStatic | -2.753E-15 | -0.1687    | -2.950E-15 | 0.21793     | 1.120E-15    |
| 205   | 0.46695      | 4C26TB     | LinStatic | -2.753E-15 | -0.1687    | -2.950E-15 | 0.21793     | 2.497E-15    |
| 205   | 0.93391      | 4C26TB     | LinStatic | -2.753E-15 | -0.1687    | -2.950E-15 | 0.21793     | 3.874E-15    |
| 205   | 1.40086      | 4C26TB     | LinStatic | -2.753E-15 | -0.1687    | -2.950E-15 | 0.21793     | 5.252E-15    |
| 205   | 1.86781      | 4C26TB     | LinStatic | -2.753E-15 | -0.1687    | -2.950E-15 | 0.21793     | 6.629E-15    |
| 206   | 0.00000      | 4C26TB     | LinStatic | -3.369E-15 | 0.0050     | -9.649E-16 | 0.07774     | 4.477E-15    |
| 206   | 0.46695      | 4C26TB     | LinStatic | -3.369E-15 | 0.0050     | -9.649E-16 | 0.07774     | 4.928E-15    |
| 206   | 0.93391      | 4C26TB     | LinStatic | -3.369E-15 | 0.0050     | -9.649E-16 | 0.07774     | 5.378E-15    |
| 206   | 1.40086      | 4C26TB     | LinStatic | -3.369E-15 | 0.0050     | -9.649E-16 | 0.07774     | 5.829E-15    |
| 206   | 1.86781      | 4C26TB     | LinStatic | -3.369E-15 | 0.0050     | -9.649E-16 | 0.07774     | 6.279E-15    |
| 207   | 0.00000      | 4C26TB     | LinStatic | -2.971E-15 | 0.2017     | 2.501E-15  | -0.07673    | 6.777E-15    |
| 207   | 0.46695      | 4C26TB     | LinStatic | -2.971E-15 | 0.2017     | 2.501E-15  | -0.07673    | 5.609E-15    |
| 207   | 0.93391      | 4C26TB     | LinStatic | -2.971E-15 | 0.2017     | 2.501E-15  | -0.07673    | 4.441E-15    |
| 207   | 1.40086      | 4C26TB     | LinStatic | -2.971E-15 | 0.2017     | 2.501E-15  | -0.07673    | 3.274E-15    |
| 207   | 1.86781      | 4C26TB     | LinStatic | -2.971E-15 | 0.2017     | 2.501E-15  | -0.07673    | 2.106E-15    |
| 208   | 0.00000      | 4C26TB     | LinStatic | -1.225E-15 | 0.6609     | 5.526E-15  | -0.20602    | 5.090E-15    |
| 208   | 0.46695      | 4C26TB     | LinStatic | -1.225E-15 | 0.6609     | 5.526E-15  | -0.20602    | 2.510E-15    |
| 208   | 0.93391      | 4C26TB     | LinStatic | -1.225E-15 | 0.6609     | 5.526E-15  | -0.20602    | -6.994E-17   |
| 208   | 1.40086      | 4C26TB     | LinStatic | -1.225E-15 | 0.6609     | 5.526E-15  | -0.20602    | -2.650E-15   |
| 208   | 1.86781      | 4C26TB     | LinStatic | -1.225E-15 | 0.6609     | 5.526E-15  | -0.20602    | -5.230E-15   |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|--------------|------------|-----------|------------|---------|------------|----------|------------|
|       |              |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 209   | 0.00000      | 4C26TB     | LinStatic | -7.460E-17 | 0.0680  | 1.487E-15  | -0.25981 | -2.184E-15 |
| 209   | 0.46695      | 4C26TB     | LinStatic | -7.460E-17 | 0.0680  | 1.487E-15  | -0.25981 | -2.879E-15 |
| 209   | 0.93391      | 4C26TB     | LinStatic | -7.460E-17 | 0.0680  | 1.487E-15  | -0.25981 | -3.573E-15 |
| 209   | 1.40086      | 4C26TB     | LinStatic | -7.460E-17 | 0.0680  | 1.487E-15  | -0.25981 | -4.267E-15 |
| 209   | 1.86781      | 4C26TB     | LinStatic | -7.460E-17 | 0.0680  | 1.487E-15  | -0.25981 | -4.962E-15 |
| 210   | 0.00000      | 4C26TB     | LinStatic | -8.256E-16 | -0.0944 | -1.815E-15 | 0.18965  | -2.296E-15 |
| 210   | 0.46695      | 4C26TB     | LinStatic | -8.256E-16 | -0.0944 | -1.815E-15 | 0.18965  | -1.448E-15 |
| 210   | 0.93391      | 4C26TB     | LinStatic | -8.256E-16 | -0.0944 | -1.815E-15 | 0.18965  | -6.005E-16 |
| 210   | 1.40086      | 4C26TB     | LinStatic | -8.256E-16 | -0.0944 | -1.815E-15 | 0.18965  | 2.470E-16  |
| 210   | 1.86781      | 4C26TB     | LinStatic | -8.256E-16 | -0.0944 | -1.815E-15 | 0.18965  | 1.095E-15  |
| 211   | 0.00000      | 4C26TB     | LinStatic | -1.778E-15 | -0.6819 | -2.653E-15 | 0.20134  | -1.492E-15 |
| 211   | 0.46695      | 4C26TB     | LinStatic | -1.778E-15 | -0.6819 | -2.653E-15 | 0.20134  | -2.532E-16 |
| 211   | 0.93391      | 4C26TB     | LinStatic | -1.778E-15 | -0.6819 | -2.653E-15 | 0.20134  | 9.857E-16  |
| 211   | 1.40086      | 4C26TB     | LinStatic | -1.778E-15 | -0.6819 | -2.653E-15 | 0.20134  | 2.225E-15  |
| 211   | 1.86781      | 4C26TB     | LinStatic | -1.778E-15 | -0.6819 | -2.653E-15 | 0.20134  | 3.464E-15  |
| 212   | 0.00000      | 4C26TB     | LinStatic | -2.687E-15 | -0.2063 | -2.232E-15 | 0.18940  | 1.146E-15  |
| 212   | 0.46695      | 4C26TB     | LinStatic | -2.687E-15 | -0.2063 | -2.232E-15 | 0.18940  | 2.189E-15  |
| 212   | 0.93391      | 4C26TB     | LinStatic | -2.687E-15 | -0.2063 | -2.232E-15 | 0.18940  | 3.231E-15  |
| 212   | 1.40086      | 4C26TB     | LinStatic | -2.687E-15 | -0.2063 | -2.232E-15 | 0.18940  | 4.273E-15  |
| 212   | 1.86781      | 4C26TB     | LinStatic | -2.687E-15 | -0.2063 | -2.232E-15 | 0.18940  | 5.315E-15  |
| 213   | 0.00000      | 4C26TB     | LinStatic | -3.169E-15 | 0.0049  | -5.522E-16 | 0.08470  | 3.756E-15  |
| 213   | 0.46695      | 4C26TB     | LinStatic | -3.169E-15 | 0.0049  | -5.522E-16 | 0.08470  | 4.014E-15  |
| 213   | 0.93391      | 4C26TB     | LinStatic | -3.169E-15 | 0.0049  | -5.522E-16 | 0.08470  | 4.271E-15  |
| 213   | 1.40086      | 4C26TB     | LinStatic | -3.169E-15 | 0.0049  | -5.522E-16 | 0.08470  | 4.529E-15  |
| 213   | 1.86781      | 4C26TB     | LinStatic | -3.169E-15 | 0.0049  | -5.522E-16 | 0.08470  | 4.787E-15  |
| 214   | 0.00000      | 4C26TB     | LinStatic | -2.722E-15 | 0.2305  | 2.005E-15  | -0.03576 | 5.198E-15  |
| 214   | 0.46695      | 4C26TB     | LinStatic | -2.722E-15 | 0.2305  | 2.005E-15  | -0.03576 | 4.261E-15  |
| 214   | 0.93391      | 4C26TB     | LinStatic | -2.722E-15 | 0.2305  | 2.005E-15  | -0.03576 | 3.052E-15  |
| 214   | 1.40086      | 4C26TB     | LinStatic | -2.722E-15 | 0.2305  | 2.005E-15  | -0.03576 | 2.389E-15  |
| 214   | 1.86781      | 4C26TB     | LinStatic | -2.722E-15 | 0.2305  | 2.005E-15  | -0.03576 | 1.453E-15  |
| 215   | 0.00000      | 4C26TB     | LinStatic | -1.267E-15 | 0.6805  | 4.077E-15  | -0.14823 | 3.695E-15  |
| 215   | 0.46695      | 4C26TB     | LinStatic | -1.267E-15 | 0.6805  | 4.077E-15  | -0.14823 | 1.791E-15  |
| 215   | 0.93391      | 4C26TB     | LinStatic | -1.267E-15 | 0.6805  | 4.077E-15  | -0.14823 | -1.122E-16 |
| 215   | 1.40086      | 4C26TB     | LinStatic | -1.267E-15 | 0.6805  | 4.077E-15  | -0.14823 | -2.016E-15 |
| 215   | 1.86781      | 4C26TB     | LinStatic | -1.267E-15 | 0.6805  | 4.077E-15  | -0.14823 | -3.919E-15 |
| 216   | 0.00000      | 4C26TB     | LinStatic | -2.089E-16 | 0.0904  | 1.235E-15  | -0.19961 | -1.807E-15 |
| 216   | 0.46695      | 4C26TB     | LinStatic | -2.089E-16 | 0.0904  | 1.235E-15  | -0.19961 | -2.383E-15 |
| 216   | 0.93391      | 4C26TB     | LinStatic | -2.089E-16 | 0.0904  | 1.235E-15  | -0.19961 | -2.960E-15 |
| 216   | 1.40086      | 4C26TB     | LinStatic | -2.089E-16 | 0.0904  | 1.235E-15  | -0.19961 | -3.537E-15 |
| 216   | 1.86781      | 4C26TB     | LinStatic | -2.089E-16 | 0.0904  | 1.235E-15  | -0.19961 | -4.113E-15 |
| 217   | 0.00000      | 4C26TB     | LinStatic | -8.074E-16 | -0.1090 | -1.409E-15 | 0.12771  | -1.849E-15 |
| 217   | 0.46695      | 4C26TB     | LinStatic | -8.074E-16 | -0.1090 | -1.409E-15 | 0.12771  | -1.191E-15 |
| 217   | 0.93391      | 4C26TB     | LinStatic | -8.074E-16 | -0.1090 | -1.409E-15 | 0.12771  | -5.325E-16 |
| 217   | 1.40086      | 4C26TB     | LinStatic | -8.074E-16 | -0.1090 | -1.409E-15 | 0.12771  | 1.256E-16  |
| 217   | 1.86781      | 4C26TB     | LinStatic | -8.074E-16 | -0.1090 | -1.409E-15 | 0.12771  | 7.837E-16  |
| 218   | 0.00000      | 4C26TB     | LinStatic | -1.723E-15 | -0.6977 | -2.015E-15 | 0.14653  | -1.046E-15 |
| 218   | 0.46695      | 4C26TB     | LinStatic | -1.723E-15 | -0.6977 | -2.015E-15 | 0.14653  | -1.051E-16 |
| 218   | 0.93391      | 4C26TB     | LinStatic | -1.723E-15 | -0.6977 | -2.015E-15 | 0.14653  | 8.360E-16  |
| 218   | 1.40086      | 4C26TB     | LinStatic | -1.723E-15 | -0.6977 | -2.015E-15 | 0.14653  | 1.777E-15  |
| 218   | 1.86781      | 4C26TB     | LinStatic | -1.723E-15 | -0.6977 | -2.015E-15 | 0.14653  | 2.718E-15  |
| 219   | 0.00000      | 4C26TB     | LinStatic | -2.552E-15 | -0.2352 | -1.606E-15 | 0.15659  | 1.153E-15  |
| 219   | 0.46695      | 4C26TB     | LinStatic | -2.552E-15 | -0.2352 | -1.606E-15 | 0.15659  | 1.904E-15  |
| 219   | 0.93391      | 4C26TB     | LinStatic | -2.552E-15 | -0.2352 | -1.606E-15 | 0.15659  | 2.654E-15  |
| 219   | 1.40086      | 4C26TB     | LinStatic | -2.552E-15 | -0.2352 | -1.606E-15 | 0.15659  | 3.404E-15  |
| 219   | 1.86781      | 4C26TB     | LinStatic | -2.552E-15 | -0.2352 | -1.606E-15 | 0.15659  | 4.154E-15  |
| 220   | 0.00000      | 4C26TB     | LinStatic | -2.938E-15 | 0.0048  | -2.794E-16 | 0.09046  | 3.139E-15  |
| 220   | 0.46695      | 4C26TB     | LinStatic | -2.938E-15 | 0.0048  | -2.794E-16 | 0.09046  | 3.269E-15  |
| 220   | 0.93391      | 4C26TB     | LinStatic | -2.938E-15 | 0.0048  | -2.794E-16 | 0.09046  | 3.400E-15  |
| 220   | 1.40086      | 4C26TB     | LinStatic | -2.938E-15 | 0.0048  | -2.794E-16 | 0.09046  | 3.530E-15  |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 220   | 1.86781      | 4C26TB     | LinStatic | -2.938E-15 | 0.0048     | -2.794E-16 | 0.09046     | 3.661E-15    |
| 221   | 0.00000      | 4C26TB     | LinStatic | -2.507E-15 | 0.2500     | 1.527E-15  | 0.00459     | 3.937E-15    |
| 221   | 0.46695      | 4C26TB     | LinStatic | -2.507E-15 | 0.2500     | 1.527E-15  | 0.00459     | 3.224E-15    |
| 221   | 0.93391      | 4C26TB     | LinStatic | -2.507E-15 | 0.2500     | 1.527E-15  | 0.00459     | 2.511E-15    |
| 221   | 1.40086      | 4C26TB     | LinStatic | -2.507E-15 | 0.2500     | 1.527E-15  | 0.00459     | 1.798E-15    |
| 221   | 1.86781      | 4C26TB     | LinStatic | -2.507E-15 | 0.2500     | 1.527E-15  | 0.00459     | 1.086E-15    |
| 222   | 0.00000      | 4C26TB     | LinStatic | -1.321E-15 | 0.6980     | 2.891E-15  | -0.08961    | 2.556E-15    |
| 222   | 0.46695      | 4C26TB     | LinStatic | -1.321E-15 | 0.6980     | 2.891E-15  | -0.08961    | 1.206E-15    |
| 222   | 0.93391      | 4C26TB     | LinStatic | -1.321E-15 | 0.6980     | 2.891E-15  | -0.08961    | -1.439E-16   |
| 222   | 1.40086      | 4C26TB     | LinStatic | -1.321E-15 | 0.6980     | 2.891E-15  | -0.08961    | -1.494E-15   |
| 222   | 1.86781      | 4C26TB     | LinStatic | -1.321E-15 | 0.6980     | 2.891E-15  | -0.08961    | -2.844E-15   |
| 223   | 0.00000      | 4C26TB     | LinStatic | -2.832E-16 | 0.1066     | 9.992E-16  | -0.13588    | -1.494E-15   |
| 223   | 0.46695      | 4C26TB     | LinStatic | -2.832E-16 | 0.1066     | 9.992E-16  | -0.13588    | -1.961E-15   |
| 223   | 0.93391      | 4C26TB     | LinStatic | -2.832E-16 | 0.1066     | 9.992E-16  | -0.13588    | -2.427E-15   |
| 223   | 1.40086      | 4C26TB     | LinStatic | -2.832E-16 | 0.1066     | 9.992E-16  | -0.13588    | -2.894E-15   |
| 223   | 1.86781      | 4C26TB     | LinStatic | -2.832E-16 | 0.1066     | 9.992E-16  | -0.13588    | -3.360E-15   |
| 224   | 0.00000      | 4C26TB     | LinStatic | -7.692E-16 | -0.1177    | -1.008E-15 | 0.06298     | -1.396E-15   |
| 224   | 0.46695      | 4C26TB     | LinStatic | -7.692E-16 | -0.1177    | -1.008E-15 | 0.06298     | -9.248E-16   |
| 224   | 0.93391      | 4C26TB     | LinStatic | -7.692E-16 | -0.1177    | -1.008E-15 | 0.06298     | -4.541E-16   |
| 224   | 1.40086      | 4C26TB     | LinStatic | -7.692E-16 | -0.1177    | -1.008E-15 | 0.06298     | 1.664E-17    |
| 224   | 1.86781      | 4C26TB     | LinStatic | -7.692E-16 | -0.1177    | -1.008E-15 | 0.06298     | 4.874E-16    |
| 225   | 0.00000      | 4C26TB     | LinStatic | -1.631E-15 | -0.7089    | -1.396E-15 | 0.08860     | -6.322E-15   |
| 225   | 0.46695      | 4C26TB     | LinStatic | -1.631E-15 | -0.7089    | -1.396E-15 | 0.08860     | 1.966E-17    |
| 225   | 0.93391      | 4C26TB     | LinStatic | -1.631E-15 | -0.7089    | -1.396E-15 | 0.08860     | 6.716E-16    |
| 225   | 1.40086      | 4C26TB     | LinStatic | -1.631E-15 | -0.7089    | -1.396E-15 | 0.08860     | 1.323E-15    |
| 225   | 1.86781      | 4C26TB     | LinStatic | -1.631E-15 | -0.7089    | -1.396E-15 | 0.08860     | 1.975E-15    |
| 226   | 0.00000      | 4C26TB     | LinStatic | -2.378E-15 | -0.2522    | -1.030E-15 | 0.12133     | 1.192E-15    |
| 226   | 0.46695      | 4C26TB     | LinStatic | -2.378E-15 | -0.2522    | -1.030E-15 | 0.12133     | 1.673E-15    |
| 226   | 0.93391      | 4C26TB     | LinStatic | -2.378E-15 | -0.2522    | -1.030E-15 | 0.12133     | 2.154E-15    |
| 226   | 1.40086      | 4C26TB     | LinStatic | -2.378E-15 | -0.2522    | -1.030E-15 | 0.12133     | 2.635E-15    |
| 226   | 1.86781      | 4C26TB     | LinStatic | -2.378E-15 | -0.2522    | -1.030E-15 | 0.12133     | 3.116E-15    |
| 227   | 0.00000      | 4C26TB     | LinStatic | -2.708E-15 | 5.368E-04  | -5.797E-17 | 0.09376     | 2.610E-15    |
| 227   | 0.46695      | 4C26TB     | LinStatic | -2.708E-15 | 5.368E-04  | -5.797E-17 | 0.09376     | 2.637E-15    |
| 227   | 0.93391      | 4C26TB     | LinStatic | -2.708E-15 | 5.368E-04  | -5.797E-17 | 0.09376     | 2.664E-15    |
| 227   | 1.40086      | 4C26TB     | LinStatic | -2.708E-15 | 5.368E-04  | -5.797E-17 | 0.09376     | 2.691E-15    |
| 227   | 1.86781      | 4C26TB     | LinStatic | -2.708E-15 | 5.368E-04  | -5.797E-17 | 0.09376     | 2.718E-15    |
| 228   | 0.00000      | 4C26TB     | LinStatic | -2.320E-15 | 0.2626     | 1.113E-15  | 0.04479     | 2.888E-15    |
| 228   | 0.46695      | 4C26TB     | LinStatic | -2.320E-15 | 0.2626     | 1.113E-15  | 0.04479     | 2.368E-15    |
| 228   | 0.93391      | 4C26TB     | LinStatic | -2.320E-15 | 0.2626     | 1.113E-15  | 0.04479     | 1.849E-15    |
| 228   | 1.40086      | 4C26TB     | LinStatic | -2.320E-15 | 0.2626     | 1.113E-15  | 0.04479     | 1.329E-15    |
| 228   | 1.86781      | 4C26TB     | LinStatic | -2.320E-15 | 0.2626     | 1.113E-15  | 0.04479     | 8.089E-16    |
| 229   | 0.00000      | 4C26TB     | LinStatic | -1.345E-15 | 0.7071     | 1.816E-15  | -0.02955    | 1.421E-15    |
| 229   | 0.46695      | 4C26TB     | LinStatic | -1.345E-15 | 0.7071     | 1.816E-15  | -0.02955    | 5.727E-16    |
| 229   | 0.93391      | 4C26TB     | LinStatic | -1.345E-15 | 0.7071     | 1.816E-15  | -0.02955    | -2.755E-16   |
| 229   | 1.40086      | 4C26TB     | LinStatic | -1.345E-15 | 0.7071     | 1.816E-15  | -0.02955    | -1.124E-15   |
| 229   | 1.86781      | 4C26TB     | LinStatic | -1.345E-15 | 0.7071     | 1.816E-15  | -0.02955    | -1.972E-15   |
| 230   | 0.00000      | 4C26TB     | LinStatic | -3.186E-16 | 0.1168     | 7.865E-16  | -0.07002    | -1.205E-15   |
| 230   | 0.46695      | 4C26TB     | LinStatic | -3.186E-16 | 0.1168     | 7.865E-16  | -0.07002    | -1.572E-15   |
| 230   | 0.93391      | 4C26TB     | LinStatic | -3.186E-16 | 0.1168     | 7.865E-16  | -0.07002    | -1.939E-15   |
| 230   | 1.40086      | 4C26TB     | LinStatic | -3.186E-16 | 0.1168     | 7.865E-16  | -0.07002    | -2.306E-15   |
| 230   | 1.86781      | 4C26TB     | LinStatic | -3.186E-16 | 0.1168     | 7.865E-16  | -0.07002    | -2.674E-15   |
| 231   | 0.00000      | 4C26TB     | LinStatic | -7.180E-16 | -0.1207    | -6.194E-16 | -0.00331    | -9.414E-16   |
| 231   | 0.46695      | 4C26TB     | LinStatic | -7.180E-16 | -0.1207    | -6.194E-16 | -0.00331    | -6.522E-16   |
| 231   | 0.93391      | 4C26TB     | LinStatic | -7.180E-16 | -0.1207    | -6.194E-16 | -0.00331    | -3.629E-16   |
| 231   | 1.40086      | 4C26TB     | LinStatic | -7.180E-16 | -0.1207    | -6.194E-16 | -0.00331    | -7.370E-17   |
| 231   | 1.86781      | 4C26TB     | LinStatic | -7.180E-16 | -0.1207    | -6.194E-16 | -0.00331    | -2.155E-16   |
| 232   | 0.00000      | 4C26TB     | LinStatic | -1.512E-15 | -0.7088    | -8.140E-16 | 0.02970     | -2.200E-16   |
| 232   | 0.46695      | 4C26TB     | LinStatic | -1.512E-15 | -0.7088    | -8.140E-16 | 0.02970     | 1.601E-16    |
| 232   | 0.93391      | 4C26TB     | LinStatic | -1.512E-15 | -0.7088    | -8.140E-16 | 0.02970     | 5.402E-16    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 232   | 1.40086      | 4C26TB     | LinStatic | -1.512E-15 | -0.7088    | -8.140E-16 | 0.02970     | 9.203E-16    |
| 232   | 1.86781      | 4C26TB     | LinStatic | -1.512E-15 | -0.7088    | -8.140E-16 | 0.02970     | 1.300E-15    |
| 233   | 0.00000      | 4C26TB     | LinStatic | -2.194E-15 | -0.2626    | -5.173E-16 | 0.08424     | 1.232E-15    |
| 233   | 0.46695      | 4C26TB     | LinStatic | -2.194E-15 | -0.2626    | -5.173E-16 | 0.08424     | 1.474E-15    |
| 233   | 0.93391      | 4C26TB     | LinStatic | -2.194E-15 | -0.2626    | -5.173E-16 | 0.08424     | 1.716E-15    |
| 233   | 1.40086      | 4C26TB     | LinStatic | -2.194E-15 | -0.2626    | -5.173E-16 | 0.08424     | 1.957E-15    |
| 233   | 1.86781      | 4C26TB     | LinStatic | -2.194E-15 | -0.2626    | -5.173E-16 | 0.08424     | 2.199E-15    |
| 234   | 0.00000      | 4C26TB     | LinStatic | -2.489E-15 | -2.842E-13 | 1.133E-16  | 0.09450     | 2.114E-15    |
| 234   | 0.46695      | 4C26TB     | LinStatic | -2.489E-15 | -2.842E-13 | 1.133E-16  | 0.09450     | 2.061E-15    |
| 234   | 0.93391      | 4C26TB     | LinStatic | -2.489E-15 | -2.842E-13 | 1.133E-16  | 0.09450     | 2.008E-15    |
| 234   | 1.40086      | 4C26TB     | LinStatic | -2.489E-15 | -2.842E-13 | 1.133E-16  | 0.09450     | 1.955E-15    |
| 234   | 1.86781      | 4C26TB     | LinStatic | -2.489E-15 | -2.842E-13 | 1.133E-16  | 0.09450     | 1.902E-15    |
| 235   | 0.00000      | 4C26TB     | LinStatic | -2.166E-15 | 0.2626     | 7.251E-16  | 0.08424     | 1.971E-15    |
| 235   | 0.46695      | 4C26TB     | LinStatic | -2.166E-15 | 0.2626     | 7.251E-16  | 0.08424     | 1.633E-15    |
| 235   | 0.93391      | 4C26TB     | LinStatic | -2.166E-15 | 0.2626     | 7.251E-16  | 0.08424     | 1.294E-15    |
| 235   | 1.40086      | 4C26TB     | LinStatic | -2.166E-15 | 0.2626     | 7.251E-16  | 0.08424     | 9.557E-16    |
| 235   | 1.86781      | 4C26TB     | LinStatic | -2.166E-15 | 0.2626     | 7.251E-16  | 0.08424     | 6.171E-16    |
| 236   | 0.00000      | 4C26TB     | LinStatic | -1.348E-15 | 0.7088     | 8.726E-16  | 0.02970     | 5.441E-16    |
| 236   | 0.46695      | 4C26TB     | LinStatic | -1.348E-15 | 0.7088     | 8.726E-16  | 0.02970     | 1.366E-16    |
| 236   | 0.93391      | 4C26TB     | LinStatic | -1.348E-15 | 0.7088     | 8.726E-16  | 0.02970     | -2.709E-16   |
| 236   | 1.40086      | 4C26TB     | LinStatic | -1.348E-15 | 0.7088     | 8.726E-16  | 0.02970     | -6.783E-16   |
| 236   | 1.86781      | 4C26TB     | LinStatic | -1.348E-15 | 0.7088     | 8.726E-16  | 0.02970     | -1.086E-15   |
| 237   | 0.00000      | 4C26TB     | LinStatic | -3.339E-16 | 0.1207     | 6.077E-16  | -0.00331    | -8.888E-16   |
| 237   | 0.46695      | 4C26TB     | LinStatic | -3.339E-16 | 0.1207     | 6.077E-16  | -0.00331    | -1.173E-15   |
| 237   | 0.93391      | 4C26TB     | LinStatic | -3.339E-16 | 0.1207     | 6.077E-16  | -0.00331    | -1.456E-15   |
| 237   | 1.40086      | 4C26TB     | LinStatic | -3.339E-16 | 0.1207     | 6.077E-16  | -0.00331    | -1.740E-15   |
| 237   | 1.86781      | 4C26TB     | LinStatic | -3.339E-16 | 0.1207     | 6.077E-16  | -0.00331    | -2.024E-15   |
| 238   | 0.00000      | 4C26TB     | LinStatic | -6.620E-16 | -0.1168    | -2.463E-16 | -0.07002    | -4.920E-16   |
| 238   | 0.46695      | 4C26TB     | LinStatic | -6.620E-16 | -0.1168    | -2.463E-16 | -0.07002    | -3.770E-16   |
| 238   | 0.93391      | 4C26TB     | LinStatic | -6.620E-16 | -0.1168    | -2.463E-16 | -0.07002    | -2.620E-16   |
| 238   | 1.40086      | 4C26TB     | LinStatic | -6.620E-16 | -0.1168    | -2.463E-16 | -0.07002    | -1.470E-16   |
| 238   | 1.86781      | 4C26TB     | LinStatic | -6.620E-16 | -0.1168    | -2.463E-16 | -0.07002    | -3.199E-17   |
| 239   | 0.00000      | 4C26TB     | LinStatic | -1.393E-15 | -0.7071    | -2.661E-16 | -0.02955    | 1.875E-16    |
| 239   | 0.46695      | 4C26TB     | LinStatic | -1.393E-15 | -0.7071    | -2.661E-16 | -0.02955    | 3.118E-16    |
| 239   | 0.93391      | 4C26TB     | LinStatic | -1.393E-15 | -0.7071    | -2.661E-16 | -0.02955    | 4.360E-16    |
| 239   | 1.40086      | 4C26TB     | LinStatic | -1.393E-15 | -0.7071    | -2.661E-16 | -0.02955    | 5.603E-16    |
| 239   | 1.86781      | 4C26TB     | LinStatic | -1.393E-15 | -0.7071    | -2.661E-16 | -0.02955    | 6.846E-16    |
| 240   | 0.00000      | 4C26TB     | LinStatic | -2.014E-15 | -0.2626    | -4.283E-17 | 0.04479     | 1.253E-15    |
| 240   | 0.46695      | 4C26TB     | LinStatic | -2.014E-15 | -0.2626    | -4.283E-17 | 0.04479     | 1.273E-15    |
| 240   | 0.93391      | 4C26TB     | LinStatic | -2.014E-15 | -0.2626    | -4.283E-17 | 0.04479     | 1.293E-15    |
| 240   | 1.40086      | 4C26TB     | LinStatic | -2.014E-15 | -0.2626    | -4.283E-17 | 0.04479     | 1.313E-15    |
| 240   | 1.86781      | 4C26TB     | LinStatic | -2.014E-15 | -0.2626    | -4.283E-17 | 0.04479     | 1.333E-15    |
| 241   | 0.00000      | 4C26TB     | LinStatic | -2.291E-15 | -5.368E-04 | 2.668E-16  | 0.09376     | 1.655E-15    |
| 241   | 0.46695      | 4C26TB     | LinStatic | -2.291E-15 | -5.368E-04 | 2.668E-16  | 0.09376     | 1.531E-15    |
| 241   | 0.93391      | 4C26TB     | LinStatic | -2.291E-15 | -5.368E-04 | 2.668E-16  | 0.09376     | 1.406E-15    |
| 241   | 1.40086      | 4C26TB     | LinStatic | -2.291E-15 | -5.368E-04 | 2.668E-16  | 0.09376     | 1.282E-15    |
| 241   | 1.86781      | 4C26TB     | LinStatic | -2.291E-15 | -5.368E-04 | 2.668E-16  | 0.09376     | 1.157E-15    |
| 242   | 0.00000      | 4C26TB     | LinStatic | -2.043E-15 | 0.2522     | 3.721E-16  | 0.12133     | 1.101E-15    |
| 242   | 0.46695      | 4C26TB     | LinStatic | -2.043E-15 | 0.2522     | 3.721E-16  | 0.12133     | 9.271E-16    |
| 242   | 0.93391      | 4C26TB     | LinStatic | -2.043E-15 | 0.2522     | 3.721E-16  | 0.12133     | 7.533E-16    |
| 242   | 1.40086      | 4C26TB     | LinStatic | -2.043E-15 | 0.2522     | 3.721E-16  | 0.12133     | 5.796E-16    |
| 242   | 1.86781      | 4C26TB     | LinStatic | -2.043E-15 | 0.2522     | 3.721E-16  | 0.12133     | 4.058E-16    |
| 243   | 0.00000      | 4C26TB     | LinStatic | -1.392E-15 | 0.7089     | -2.035E-17 | 0.08860     | -3.116E-16   |
| 243   | 0.46695      | 4C26TB     | LinStatic | -1.392E-15 | 0.7089     | -2.035E-17 | 0.08860     | -3.021E-16   |
| 243   | 0.93391      | 4C26TB     | LinStatic | -1.392E-15 | 0.7089     | -2.035E-17 | 0.08860     | -2.926E-16   |
| 243   | 1.40086      | 4C26TB     | LinStatic | -1.392E-15 | 0.7089     | -2.035E-17 | 0.08860     | -2.831E-16   |
| 243   | 1.86781      | 4C26TB     | LinStatic | -1.392E-15 | 0.7089     | -2.035E-17 | 0.08860     | -2.736E-16   |
| 244   | 0.00000      | 4C26TB     | LinStatic | -3.469E-16 | 0.1177     | 4.498E-16  | 0.06298     | -5.634E-16   |
| 244   | 0.46695      | 4C26TB     | LinStatic | -3.469E-16 | 0.1177     | 4.498E-16  | 0.06298     | -7.735E-16   |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 244   | 0.93391      | 4C26TB     | LinStatic | -3.469E-16 | 0.1177     | 4.498E-16  | 0.06298     | -9.835E-16   |
| 244   | 1.40086      | 4C26TB     | LinStatic | -3.469E-16 | 0.1177     | 4.498E-16  | 0.06298     | -1.194E-15   |
| 244   | 1.86781      | 4C26TB     | LinStatic | -3.469E-16 | 0.1177     | 4.498E-16  | 0.06298     | -1.404E-15   |
| 245   | 0.00000      | 4C26TB     | LinStatic | -6.061E-16 | -0.1066    | 1.113E-16  | -0.13588    | -5.175E-17   |
| 245   | 0.46695      | 4C26TB     | LinStatic | -6.061E-16 | -0.1066    | 1.113E-16  | -0.13588    | -1.037E-16   |
| 245   | 0.93391      | 4C26TB     | LinStatic | -6.061E-16 | -0.1066    | 1.113E-16  | -0.13588    | -1.557E-16   |
| 245   | 1.40086      | 4C26TB     | LinStatic | -6.061E-16 | -0.1066    | 1.113E-16  | -0.13588    | -2.077E-16   |
| 245   | 1.86781      | 4C26TB     | LinStatic | -6.061E-16 | -0.1066    | 1.113E-16  | -0.13588    | -2.597E-16   |
| 246   | 0.00000      | 4C26TB     | LinStatic | -1.272E-15 | -0.6980    | 2.594E-16  | -0.08961    | 5.704E-16    |
| 246   | 0.46695      | 4C26TB     | LinStatic | -1.272E-15 | -0.6980    | 2.594E-16  | -0.08961    | 4.493E-16    |
| 246   | 0.93391      | 4C26TB     | LinStatic | -1.272E-15 | -0.6980    | 2.594E-16  | -0.08961    | 3.281E-16    |
| 246   | 1.40086      | 4C26TB     | LinStatic | -1.272E-15 | -0.6980    | 2.594E-16  | -0.08961    | 2.070E-16    |
| 246   | 1.86781      | 4C26TB     | LinStatic | -1.272E-15 | -0.6980    | 2.594E-16  | -0.08961    | 8.591E-17    |
| 247   | 0.00000      | 4C26TB     | LinStatic | -1.840E-15 | -0.2500    | 4.146E-16  | 0.00459     | 1.276E-15    |
| 247   | 0.46695      | 4C26TB     | LinStatic | -1.840E-15 | -0.2500    | 4.146E-16  | 0.00459     | 1.082E-15    |
| 247   | 0.93391      | 4C26TB     | LinStatic | -1.840E-15 | -0.2500    | 4.146E-16  | 0.00459     | 8.889E-16    |
| 247   | 1.40086      | 4C26TB     | LinStatic | -1.840E-15 | -0.2500    | 4.146E-16  | 0.00459     | 6.953E-16    |
| 247   | 1.86781      | 4C26TB     | LinStatic | -1.840E-15 | -0.2500    | 4.146E-16  | 0.00459     | 5.017E-16    |
| 248   | 0.00000      | 4C26TB     | LinStatic | -2.120E-15 | -0.0048    | 4.260E-16  | 0.09046     | 1.197E-15    |
| 248   | 0.46695      | 4C26TB     | LinStatic | -2.120E-15 | -0.0048    | 4.260E-16  | 0.09046     | 9.981E-16    |
| 248   | 0.93391      | 4C26TB     | LinStatic | -2.120E-15 | -0.0048    | 4.260E-16  | 0.09046     | 7.992E-16    |
| 248   | 1.40086      | 4C26TB     | LinStatic | -2.120E-15 | -0.0048    | 4.260E-16  | 0.09046     | 6.003E-16    |
| 248   | 1.86781      | 4C26TB     | LinStatic | -2.120E-15 | -0.0048    | 4.260E-16  | 0.09046     | 4.014E-16    |
| 249   | 0.00000      | 4C26TB     | LinStatic | -1.941E-15 | 0.2352     | 5.875E-17  | 0.15659     | 2.707E-16    |
| 249   | 0.46695      | 4C26TB     | LinStatic | -1.941E-15 | 0.2352     | 5.875E-17  | 0.15659     | 2.432E-16    |
| 249   | 0.93391      | 4C26TB     | LinStatic | -1.941E-15 | 0.2352     | 5.875E-17  | 0.15659     | 2.158E-16    |
| 249   | 1.40086      | 4C26TB     | LinStatic | -1.941E-15 | 0.2352     | 5.875E-17  | 0.15659     | 1.884E-16    |
| 249   | 1.86781      | 4C26TB     | LinStatic | -1.941E-15 | 0.2352     | 5.875E-17  | 0.15659     | 1.609E-16    |
| 250   | 0.00000      | 4C26TB     | LinStatic | -1.407E-15 | 0.6977     | -8.793E-16 | 0.14653     | -1.174E-15   |
| 250   | 0.46695      | 4C26TB     | LinStatic | -1.407E-15 | 0.6977     | -8.793E-16 | 0.14653     | -7.632E-16   |
| 250   | 0.93391      | 4C26TB     | LinStatic | -1.407E-15 | 0.6977     | -8.793E-16 | 0.14653     | -3.526E-16   |
| 250   | 1.40086      | 4C26TB     | LinStatic | -1.407E-15 | 0.6977     | -8.793E-16 | 0.14653     | 5.800E-17    |
| 250   | 1.86781      | 4C26TB     | LinStatic | -1.407E-15 | 0.6977     | -8.793E-16 | 0.14653     | 4.686E-16    |
| 251   | 0.00000      | 4C26TB     | LinStatic | -3.631E-16 | 0.1090     | 3.062E-16  | 0.12771     | -2.268E-16   |
| 251   | 0.46695      | 4C26TB     | LinStatic | -3.631E-16 | 0.1090     | 3.062E-16  | 0.12771     | -3.697E-16   |
| 251   | 0.93391      | 4C26TB     | LinStatic | -3.631E-16 | 0.1090     | 3.062E-16  | 0.12771     | -5.127E-16   |
| 251   | 1.40086      | 4C26TB     | LinStatic | -3.631E-16 | 0.1090     | 3.062E-16  | 0.12771     | -6.557E-16   |
| 251   | 1.86781      | 4C26TB     | LinStatic | -3.631E-16 | 0.1090     | 3.062E-16  | 0.12771     | -7.986E-16   |
| 252   | 0.00000      | 4C26TB     | LinStatic | -5.554E-16 | -0.0904    | 4.523E-16  | -0.19961    | -3.786E-16   |
| 252   | 0.46695      | 4C26TB     | LinStatic | -5.554E-16 | -0.0904    | 4.523E-16  | -0.19961    | 1.674E-16    |
| 252   | 0.93391      | 4C26TB     | LinStatic | -5.554E-16 | -0.0904    | 4.523E-16  | -0.19961    | -4.380E-17   |
| 252   | 1.40086      | 4C26TB     | LinStatic | -5.554E-16 | -0.0904    | 4.523E-16  | -0.19961    | -2.550E-16   |
| 252   | 1.86781      | 4C26TB     | LinStatic | -5.554E-16 | -0.0904    | 4.523E-16  | -0.19961    | -4.662E-16   |
| 253   | 0.00000      | 4C26TB     | LinStatic | -1.157E-15 | -0.6805    | 7.486E-16  | -0.14823    | 9.553E-16    |
| 253   | 0.46695      | 4C26TB     | LinStatic | -1.157E-15 | -0.6805    | 7.486E-16  | -0.14823    | 6.058E-16    |
| 253   | 0.93391      | 4C26TB     | LinStatic | -1.157E-15 | -0.6805    | 7.486E-16  | -0.14823    | 2.562E-16    |
| 253   | 1.40086      | 4C26TB     | LinStatic | -1.157E-15 | -0.6805    | 7.486E-16  | -0.14823    | -9.340E-17   |
| 253   | 1.86781      | 4C26TB     | LinStatic | -1.157E-15 | -0.6805    | 7.486E-16  | -0.14823    | -4.430E-16   |
| 254   | 0.00000      | 4C26TB     | LinStatic | -1.683E-15 | -0.2305    | 8.312E-16  | -0.03576    | 1.266E-15    |
| 254   | 0.46695      | 4C26TB     | LinStatic | -1.683E-15 | -0.2305    | 8.312E-16  | -0.03576    | 8.777E-16    |
| 254   | 0.93391      | 4C26TB     | LinStatic | -1.683E-15 | -0.2305    | 8.312E-16  | -0.03576    | 4.896E-16    |
| 254   | 1.40086      | 4C26TB     | LinStatic | -1.683E-15 | -0.2305    | 8.312E-16  | -0.03576    | 1.015E-16    |
| 254   | 1.86781      | 4C26TB     | LinStatic | -1.683E-15 | -0.2305    | 8.312E-16  | -0.03576    | -2.866E-16   |
| 255   | 0.00000      | 4C26TB     | LinStatic | -1.966E-15 | -0.0049    | 5.676E-16  | 0.08470     | 6.845E-16    |
| 255   | 0.46695      | 4C26TB     | LinStatic | -1.966E-15 | -0.0049    | 5.676E-16  | 0.08470     | 4.195E-16    |
| 255   | 0.93391      | 4C26TB     | LinStatic | -1.966E-15 | -0.0049    | 5.676E-16  | 0.08470     | 1.545E-16    |
| 255   | 1.40086      | 4C26TB     | LinStatic | -1.966E-15 | -0.0049    | 5.676E-16  | 0.08470     | -1.106E-16   |
| 255   | 1.86781      | 4C26TB     | LinStatic | -1.966E-15 | -0.0049    | 5.676E-16  | 0.08470     | -3.756E-16   |
| 256   | 0.00000      | 4C26TB     | LinStatic | -1.868E-15 | 0.2063     | -2.521E-16 | 0.18940     | -5.634E-16   |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|---------|------------|-----------|------------|---------|------------|----------|------------|
|       | m       |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 256   | 0.46695 | 4C26TB     | LinStatic | -1.868E-15 | 0.2063  | -2.521E-16 | 0.18940  | -4.457E-16 |
| 256   | 0.93391 | 4C26TB     | LinStatic | -1.868E-15 | 0.2063  | -2.521E-16 | 0.18940  | -3.280E-16 |
| 256   | 1.40086 | 4C26TB     | LinStatic | -1.868E-15 | 0.2063  | -2.521E-16 | 0.18940  | -2.103E-16 |
| 256   | 1.86781 | 4C26TB     | LinStatic | -1.868E-15 | 0.2063  | -2.521E-16 | 0.18940  | -9.257E-17 |
| 257   | 0.00000 | 4C26TB     | LinStatic | -1.443E-15 | 0.6819  | -1.634E-15 | 0.20134  | -1.761E-15 |
| 257   | 0.46695 | 4C26TB     | LinStatic | -1.443E-15 | 0.6819  | -1.634E-15 | 0.20134  | -9.981E-16 |
| 257   | 0.93391 | 4C26TB     | LinStatic | -1.443E-15 | 0.6819  | -1.634E-15 | 0.20134  | -2.351E-16 |
| 257   | 1.40086 | 4C26TB     | LinStatic | -1.443E-15 | 0.6819  | -1.634E-15 | 0.20134  | 5.279E-16  |
| 257   | 1.86781 | 4C26TB     | LinStatic | -1.443E-15 | 0.6819  | -1.634E-15 | 0.20134  | 1.291E-15  |
| 258   | 0.00000 | 4C26TB     | LinStatic | -3.946E-16 | 0.0944  | 1.736E-16  | 0.18965  | 1.203E-16  |
| 258   | 0.46695 | 4C26TB     | LinStatic | -3.946E-16 | 0.0944  | 1.736E-16  | 0.18965  | 3.925E-17  |
| 258   | 0.93391 | 4C26TB     | LinStatic | -3.946E-16 | 0.0944  | 1.736E-16  | 0.18965  | -4.183E-17 |
| 258   | 1.40086 | 4C26TB     | LinStatic | -3.946E-16 | 0.0944  | 1.736E-16  | 0.18965  | -1.229E-16 |
| 258   | 1.86781 | 4C26TB     | LinStatic | -3.946E-16 | 0.0944  | 1.736E-16  | 0.18965  | -2.040E-16 |
| 259   | 0.00000 | 4C26TB     | LinStatic | -5.150E-16 | -0.0680 | 7.809E-16  | -0.25981 | 7.960E-16  |
| 259   | 0.46695 | 4C26TB     | LinStatic | -5.150E-16 | -0.0680 | 7.809E-16  | -0.25981 | 4.313E-16  |
| 259   | 0.93391 | 4C26TB     | LinStatic | -5.150E-16 | -0.0680 | 7.809E-16  | -0.25981 | 6.664E-17  |
| 259   | 1.40086 | 4C26TB     | LinStatic | -5.150E-16 | -0.0680 | 7.809E-16  | -0.25981 | -2.980E-16 |
| 259   | 1.86781 | 4C26TB     | LinStatic | -5.150E-16 | -0.0680 | 7.809E-16  | -0.25981 | -6.627E-16 |
| 260   | 0.00000 | 4C26TB     | LinStatic | -1.065E-15 | -0.6609 | 1.213E-15  | -0.20602 | 1.329E-15  |
| 260   | 0.46695 | 4C26TB     | LinStatic | -1.065E-15 | -0.6609 | 1.213E-15  | -0.20602 | 7.631E-16  |
| 260   | 0.93391 | 4C26TB     | LinStatic | -1.065E-15 | -0.6609 | 1.213E-15  | -0.20602 | 1.967E-16  |
| 260   | 1.40086 | 4C26TB     | LinStatic | -1.065E-15 | -0.6609 | 1.213E-15  | -0.20602 | -3.696E-16 |
| 260   | 1.86781 | 4C26TB     | LinStatic | -1.065E-15 | -0.6609 | 1.213E-15  | -0.20602 | -9.360E-16 |
| 261   | 0.00000 | 4C26TB     | LinStatic | -1.540E-15 | -0.2017 | 1.234E-15  | -0.07673 | 1.207E-15  |
| 261   | 0.46695 | 4C26TB     | LinStatic | -1.540E-15 | -0.2017 | 1.234E-15  | -0.07673 | 6.310E-16  |
| 261   | 0.93391 | 4C26TB     | LinStatic | -1.540E-15 | -0.2017 | 1.234E-15  | -0.07673 | 5.492E-17  |
| 261   | 1.40086 | 4C26TB     | LinStatic | -1.540E-15 | -0.2017 | 1.234E-15  | -0.07673 | -5.212E-16 |
| 261   | 1.86781 | 4C26TB     | LinStatic | -1.540E-15 | -0.2017 | 1.234E-15  | -0.07673 | -1.097E-15 |
| 262   | 0.00000 | 4C26TB     | LinStatic | -1.820E-15 | -0.0050 | 7.309E-16  | 0.07774  | 1.358E-16  |
| 262   | 0.46695 | 4C26TB     | LinStatic | -1.820E-15 | -0.0050 | 7.309E-16  | 0.07774  | -2.055E-16 |
| 262   | 0.93391 | 4C26TB     | LinStatic | -1.820E-15 | -0.0050 | 7.309E-16  | 0.07774  | -5.468E-16 |
| 262   | 1.40086 | 4C26TB     | LinStatic | -1.820E-15 | -0.0050 | 7.309E-16  | 0.07774  | -8.881E-16 |
| 262   | 1.86781 | 4C26TB     | LinStatic | -1.820E-15 | -0.0050 | 7.309E-16  | 0.07774  | -1.229E-15 |
| 263   | 0.00000 | 4C26TB     | LinStatic | -1.808E-15 | 0.1687  | -5.148E-16 | 0.21793  | -1.512E-15 |
| 263   | 0.46695 | 4C26TB     | LinStatic | -1.808E-15 | 0.1687  | -5.148E-16 | 0.21793  | -1.272E-15 |
| 263   | 0.93391 | 4C26TB     | LinStatic | -1.808E-15 | 0.1687  | -5.148E-16 | 0.21793  | -1.031E-15 |
| 263   | 1.40086 | 4C26TB     | LinStatic | -1.808E-15 | 0.1687  | -5.148E-16 | 0.21793  | -7.908E-16 |
| 263   | 1.86781 | 4C26TB     | LinStatic | -1.808E-15 | 0.1687  | -5.148E-16 | 0.21793  | -5.504E-16 |
| 264   | 0.00000 | 4C26TB     | LinStatic | -1.533E-15 | 0.6635  | -2.372E-15 | 0.25490  | -2.467E-15 |
| 264   | 0.46695 | 4C26TB     | LinStatic | -1.533E-15 | 0.6635  | -2.372E-15 | 0.25490  | -1.360E-15 |
| 264   | 0.93391 | 4C26TB     | LinStatic | -1.533E-15 | 0.6635  | -2.372E-15 | 0.25490  | -2.521E-16 |
| 264   | 1.40086 | 4C26TB     | LinStatic | -1.533E-15 | 0.6635  | -2.372E-15 | 0.25490  | 8.555E-16  |
| 264   | 1.86781 | 4C26TB     | LinStatic | -1.533E-15 | 0.6635  | -2.372E-15 | 0.25490  | 1.963E-15  |
| 265   | 0.00000 | 4C26TB     | LinStatic | -4.438E-16 | 0.0746  | 1.471E-17  | 0.24765  | 3.825E-16  |
| 265   | 0.46695 | 4C26TB     | LinStatic | -4.438E-16 | 0.0746  | 1.471E-17  | 0.24765  | 3.757E-16  |
| 265   | 0.93391 | 4C26TB     | LinStatic | -4.438E-16 | 0.0746  | 1.471E-17  | 0.24765  | 3.688E-16  |
| 265   | 1.40086 | 4C26TB     | LinStatic | -4.438E-16 | 0.0746  | 1.471E-17  | 0.24765  | 3.619E-16  |
| 265   | 1.86781 | 4C26TB     | LinStatic | -4.438E-16 | 0.0746  | 1.471E-17  | 0.24765  | 3.551E-16  |
| 266   | 0.00000 | 4C26TB     | LinStatic | -4.864E-16 | -0.0410 | 1.103E-15  | -0.31488 | 1.195E-15  |
| 266   | 0.46695 | 4C26TB     | LinStatic | -4.864E-16 | -0.0410 | 1.103E-15  | -0.31488 | 6.793E-16  |
| 266   | 0.93391 | 4C26TB     | LinStatic | -4.864E-16 | -0.0410 | 1.103E-15  | -0.31488 | 1.640E-16  |
| 266   | 1.40086 | 4C26TB     | LinStatic | -4.864E-16 | -0.0410 | 1.103E-15  | -0.31488 | -3.512E-16 |
| 266   | 1.86781 | 4C26TB     | LinStatic | -4.864E-16 | -0.0410 | 1.103E-15  | -0.31488 | -8.664E-16 |
| 267   | 0.00000 | 4C26TB     | LinStatic | -9.965E-16 | -0.6327 | 1.686E-15  | -0.26630 | 1.631E-15  |
| 267   | 0.46695 | 4C26TB     | LinStatic | -9.965E-16 | -0.6327 | 1.686E-15  | -0.26630 | 8.438E-16  |
| 267   | 0.93391 | 4C26TB     | LinStatic | -9.965E-16 | -0.6327 | 1.686E-15  | -0.26630 | 5.639E-17  |
| 267   | 1.40086 | 4C26TB     | LinStatic | -9.965E-16 | -0.6327 | 1.686E-15  | -0.26630 | -7.310E-16 |
| 267   | 1.86781 | 4C26TB     | LinStatic | -9.965E-16 | -0.6327 | 1.686E-15  | -0.26630 | -1.518E-15 |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m | M2<br>Tonf-m |
|-------|--------------|------------|-----------|------------|------------|------------|-------------|--------------|
| 268   | 0.00000      | 4C26TB     | LinStatic | -1.403E-15 | -0.1658    | 1.686E-15  | -0.11765    | 1.138E-15    |
| 268   | 0.46695      | 4C26TB     | LinStatic | -1.403E-15 | -0.1658    | 1.686E-15  | -0.11765    | 3.511E-16    |
| 268   | 0.93391      | 4C26TB     | LinStatic | -1.403E-15 | -0.1658    | 1.686E-15  | -0.11765    | -4.361E-16   |
| 268   | 1.40086      | 4C26TB     | LinStatic | -1.403E-15 | -0.1658    | 1.686E-15  | -0.11765    | -1.223E-15   |
| 268   | 1.86781      | 4C26TB     | LinStatic | -1.403E-15 | -0.1658    | 1.686E-15  | -0.11765    | -2.011E-15   |
| 269   | 0.00000      | 4C26TB     | LinStatic | -1.664E-15 | -0.0106    | 9.932E-16  | 0.06984     | -3.908E-16   |
| 269   | 0.46695      | 4C26TB     | LinStatic | -1.664E-15 | -0.0106    | 9.932E-16  | 0.06984     | -8.546E-16   |
| 269   | 0.93391      | 4C26TB     | LinStatic | -1.664E-15 | -0.0106    | 9.932E-16  | 0.06984     | -1.318E-15   |
| 269   | 1.40086      | 4C26TB     | LinStatic | -1.664E-15 | -0.0106    | 9.932E-16  | 0.06984     | -1.782E-15   |
| 269   | 1.86781      | 4C26TB     | LinStatic | -1.664E-15 | -0.0106    | 9.932E-16  | 0.06984     | -2.246E-15   |
| 270   | 0.00000      | 4C26TB     | LinStatic | -1.710E-15 | 0.1270     | -6.361E-16 | 0.24126     | -2.645E-15   |
| 270   | 0.46695      | 4C26TB     | LinStatic | -1.710E-15 | 0.1270     | -6.361E-16 | 0.24126     | -2.348E-15   |
| 270   | 0.93391      | 4C26TB     | LinStatic | -1.710E-15 | 0.1270     | -6.361E-16 | 0.24126     | -2.051E-15   |
| 270   | 1.40086      | 4C26TB     | LinStatic | -1.710E-15 | 0.1270     | -6.361E-16 | 0.24126     | -1.754E-15   |
| 270   | 1.86781      | 4C26TB     | LinStatic | -1.710E-15 | 0.1270     | -6.361E-16 | 0.24126     | -1.457E-15   |
| 271   | 0.00000      | 4C26TB     | LinStatic | -1.604E-15 | 0.6298     | -3.265E-15 | 0.31074     | -4.065E-15   |
| 271   | 0.46695      | 4C26TB     | LinStatic | -1.604E-15 | 0.6298     | -3.265E-15 | 0.31074     | -2.540E-15   |
| 271   | 0.93391      | 4C26TB     | LinStatic | -1.604E-15 | 0.6298     | -3.265E-15 | 0.31074     | -1.015E-15   |
| 271   | 1.40086      | 4C26TB     | LinStatic | -1.604E-15 | 0.6298     | -3.265E-15 | 0.31074     | -5.097E-16   |
| 271   | 1.86781      | 4C26TB     | LinStatic | -1.604E-15 | 0.6298     | -3.265E-15 | 0.31074     | 2.035E-15    |
| 272   | 0.00000      | 4C26TB     | LinStatic | -4.866E-16 | 0.0527     | -2.103E-16 | 0.30056     | 4.587E-16    |
| 272   | 0.46695      | 4C26TB     | LinStatic | -4.866E-16 | 0.0527     | -2.103E-16 | 0.30056     | 5.569E-16    |
| 272   | 0.93391      | 4C26TB     | LinStatic | -4.866E-16 | 0.0527     | -2.103E-16 | 0.30056     | 6.551E-16    |
| 272   | 1.40086      | 4C26TB     | LinStatic | -4.866E-16 | 0.0527     | -2.103E-16 | 0.30056     | 7.533E-16    |
| 272   | 1.86781      | 4C26TB     | LinStatic | -4.866E-16 | 0.0527     | -2.103E-16 | 0.30056     | 8.514E-16    |
| 273   | 0.00000      | 4C26TB     | LinStatic | -4.688E-16 | -0.0117    | 1.412E-15  | -0.36301    | 1.570E-15    |
| 273   | 0.46695      | 4C26TB     | LinStatic | -4.688E-16 | -0.0117    | 1.412E-15  | -0.36301    | 9.107E-16    |
| 273   | 0.93391      | 4C26TB     | LinStatic | -4.688E-16 | -0.0117    | 1.412E-15  | -0.36301    | 2.512E-16    |
| 273   | 1.40086      | 4C26TB     | LinStatic | -4.688E-16 | -0.0117    | 1.412E-15  | -0.36301    | -4.082E-16   |
| 273   | 1.86781      | 4C26TB     | LinStatic | -4.688E-16 | -0.0117    | 1.412E-15  | -0.36301    | -1.068E-15   |
| 274   | 0.00000      | 4C26TB     | LinStatic | -9.269E-16 | -0.5698    | 2.157E-15  | -0.32748    | 1.844E-15    |
| 274   | 0.46695      | 4C26TB     | LinStatic | -9.269E-16 | -0.5698    | 2.157E-15  | -0.32748    | 8.372E-16    |
| 274   | 0.93391      | 4C26TB     | LinStatic | -9.269E-16 | -0.5698    | 2.157E-15  | -0.32748    | -1.698E-16   |
| 274   | 1.40086      | 4C26TB     | LinStatic | -9.269E-16 | -0.5698    | 2.157E-15  | -0.32748    | -1.177E-15   |
| 274   | 1.86781      | 4C26TB     | LinStatic | -9.269E-16 | -0.5698    | 2.157E-15  | -0.32748    | -2.184E-15   |
| 275   | 0.00000      | 4C26TB     | LinStatic | -1.261E-15 | -0.1229    | 2.164E-15  | -0.15619    | 1.067E-15    |
| 275   | 0.46695      | 4C26TB     | LinStatic | -1.261E-15 | -0.1229    | 2.164E-15  | -0.15619    | 5.606E-17    |
| 275   | 0.93391      | 4C26TB     | LinStatic | -1.261E-15 | -0.1229    | 2.164E-15  | -0.15619    | -9.544E-16   |
| 275   | 1.40086      | 4C26TB     | LinStatic | -1.261E-15 | -0.1229    | 2.164E-15  | -0.15619    | -1.965E-15   |
| 275   | 1.86781      | 4C26TB     | LinStatic | -1.261E-15 | -0.1229    | 2.164E-15  | -0.15619    | -2.975E-15   |
| 276   | 0.00000      | 4C26TB     | LinStatic | -1.490E-15 | -0.0262    | 1.321E-15  | 0.05985     | -8.960E-16   |
| 276   | 0.46695      | 4C26TB     | LinStatic | -1.490E-15 | -0.0262    | 1.321E-15  | 0.05985     | -1.513E-15   |
| 276   | 0.93391      | 4C26TB     | LinStatic | -1.490E-15 | -0.0262    | 1.321E-15  | 0.05985     | -2.129E-15   |
| 276   | 1.40086      | 4C26TB     | LinStatic | -1.490E-15 | -0.0262    | 1.321E-15  | 0.05985     | -2.746E-15   |
| 276   | 1.86781      | 4C26TB     | LinStatic | -1.490E-15 | -0.0262    | 1.321E-15  | 0.05985     | -3.363E-15   |
| 277   | 0.00000      | 4C26TB     | LinStatic | -1.501E-15 | 0.0901     | -6.446E-16 | 0.25972     | -3.883E-15   |
| 277   | 0.46695      | 4C26TB     | LinStatic | -1.501E-15 | 0.0901     | -6.446E-16 | 0.25972     | -3.582E-15   |
| 277   | 0.93391      | 4C26TB     | LinStatic | -1.501E-15 | 0.0901     | -6.446E-16 | 0.25972     | -3.281E-15   |
| 277   | 1.40086      | 4C26TB     | LinStatic | -1.501E-15 | 0.0901     | -6.446E-16 | 0.25972     | -2.980E-15   |
| 277   | 1.86781      | 4C26TB     | LinStatic | -1.501E-15 | 0.0901     | -6.446E-16 | 0.25972     | -2.679E-15   |
| 278   | 0.00000      | 4C26TB     | LinStatic | -1.403E-15 | 0.5502     | -4.261E-15 | 0.36603     | -6.435E-15   |
| 278   | 0.46695      | 4C26TB     | LinStatic | -1.403E-15 | 0.5502     | -4.261E-15 | 0.36603     | -4.445E-15   |
| 278   | 0.93391      | 4C26TB     | LinStatic | -1.403E-15 | 0.5502     | -4.261E-15 | 0.36603     | -2.456E-15   |
| 278   | 1.40086      | 4C26TB     | LinStatic | -1.403E-15 | 0.5502     | -4.261E-15 | 0.36603     | -4.662E-16   |
| 278   | 1.86781      | 4C26TB     | LinStatic | -1.403E-15 | 0.5502     | -4.261E-15 | 0.36603     | 1.523E-15    |
| 279   | 0.00000      | 4C26TB     | LinStatic | -4.856E-16 | 0.0315     | -4.646E-16 | 0.34719     | 4.434E-16    |
| 279   | 0.46695      | 4C26TB     | LinStatic | -4.856E-16 | 0.0315     | -4.646E-16 | 0.34719     | 6.604E-16    |
| 279   | 0.93391      | 4C26TB     | LinStatic | -4.856E-16 | 0.0315     | -4.646E-16 | 0.34719     | 8.773E-16    |
| 279   | 1.40086      | 4C26TB     | LinStatic | -4.856E-16 | 0.0315     | -4.646E-16 | 0.34719     | 1.094E-15    |

Table: Element Forces - Frames, Part 1 of 2

| Frame | Station<br>m | OutputCase | CaseType  | P          | V2      | V3         | T        | M2         |
|-------|--------------|------------|-----------|------------|---------|------------|----------|------------|
|       |              |            |           | Tonf       | Tonf    | Tonf       | Tonf-m   | Tonf-m     |
| 279   | 1.86781      | 4C26TB     | LinStatic | -4.856E-16 | 0.0315  | -4.646E-16 | 0.34719  | 1.311E-15  |
| 280   | 0.00000      | 4C26TB     | LinStatic | -4.671E-16 | 0.0261  | 1.683E-15  | -0.40238 | 1.915E-15  |
| 280   | 0.46695      | 4C26TB     | LinStatic | -4.671E-16 | 0.0261  | 1.683E-15  | -0.40238 | 1.129E-15  |
| 280   | 0.93391      | 4C26TB     | LinStatic | -4.671E-16 | 0.0261  | 1.683E-15  | -0.40238 | 3.430E-16  |
| 280   | 1.40086      | 4C26TB     | LinStatic | -4.671E-16 | 0.0261  | 1.683E-15  | -0.40238 | -4.430E-16 |
| 280   | 1.86781      | 4C26TB     | LinStatic | -4.671E-16 | 0.0261  | 1.683E-15  | -0.40238 | -1.229E-15 |
| 281   | 0.00000      | 4C26TB     | LinStatic | -8.559E-16 | -0.4532 | 2.567E-15  | -0.38290 | 1.988E-15  |
| 281   | 0.46695      | 4C26TB     | LinStatic | -8.559E-16 | -0.4532 | 2.567E-15  | -0.38290 | 7.898E-16  |
| 281   | 0.93391      | 4C26TB     | LinStatic | -8.559E-16 | -0.4532 | 2.567E-15  | -0.38290 | -4.088E-16 |
| 281   | 1.40086      | 4C26TB     | LinStatic | -8.559E-16 | -0.4532 | 2.567E-15  | -0.38290 | -1.607E-15 |
| 281   | 1.86781      | 4C26TB     | LinStatic | -8.559E-16 | -0.4532 | 2.567E-15  | -0.38290 | -2.806E-15 |
| 282   | 0.00000      | 4C26TB     | LinStatic | -1.123E-15 | -0.0768 | 2.568E-15  | -0.18955 | 9.576E-16  |
| 282   | 0.46695      | 4C26TB     | LinStatic | -1.123E-15 | -0.0768 | 2.568E-15  | -0.18955 | -2.416E-16 |
| 282   | 0.93391      | 4C26TB     | LinStatic | -1.123E-15 | -0.0768 | 2.568E-15  | -0.18955 | -1.441E-15 |
| 282   | 1.40086      | 4C26TB     | LinStatic | -1.123E-15 | -0.0768 | 2.568E-15  | -0.18955 | -2.640E-15 |
| 282   | 1.86781      | 4C26TB     | LinStatic | -1.123E-15 | -0.0768 | 2.568E-15  | -0.18955 | -3.839E-15 |
| 283   | 0.00000      | 4C26TB     | LinStatic | -1.302E-15 | -0.0409 | 1.587E-15  | 0.04659  | -1.425E-15 |
| 283   | 0.46695      | 4C26TB     | LinStatic | -1.302E-15 | -0.0409 | 1.587E-15  | 0.04659  | -2.166E-15 |
| 283   | 0.93391      | 4C26TB     | LinStatic | -1.302E-15 | -0.0409 | 1.587E-15  | 0.04659  | -2.907E-15 |
| 283   | 1.40086      | 4C26TB     | LinStatic | -1.302E-15 | -0.0409 | 1.587E-15  | 0.04659  | -3.648E-15 |
| 283   | 1.86781      | 4C26TB     | LinStatic | -1.302E-15 | -0.0409 | 1.587E-15  | 0.04659  | -4.389E-15 |
| 284   | 0.00000      | 4C26TB     | LinStatic | -1.184E-15 | 0.0502  | -6.686E-16 | 0.27380  | -5.020E-15 |
| 284   | 0.46695      | 4C26TB     | LinStatic | -1.184E-15 | 0.0502  | -6.686E-16 | 0.27380  | -4.708E-15 |
| 284   | 0.93391      | 4C26TB     | LinStatic | -1.184E-15 | 0.0502  | -6.686E-16 | 0.27380  | -4.396E-15 |
| 284   | 1.40086      | 4C26TB     | LinStatic | -1.184E-15 | 0.0502  | -6.686E-16 | 0.27380  | -4.083E-15 |
| 284   | 1.86781      | 4C26TB     | LinStatic | -1.184E-15 | 0.0502  | -6.686E-16 | 0.27380  | -3.771E-15 |
| 285   | 0.00000      | 4C26TB     | LinStatic | -8.025E-16 | 0.4159  | -5.120E-15 | 0.41279  | -8.762E-15 |
| 285   | 0.46695      | 4C26TB     | LinStatic | -8.025E-16 | 0.4159  | -5.120E-15 | 0.41279  | -6.371E-15 |
| 285   | 0.93391      | 4C26TB     | LinStatic | -8.025E-16 | 0.4159  | -5.120E-15 | 0.41279  | -3.981E-15 |
| 285   | 1.40086      | 4C26TB     | LinStatic | -8.025E-16 | 0.4159  | -5.120E-15 | 0.41279  | -1.590E-15 |
| 285   | 1.86781      | 4C26TB     | LinStatic | -8.025E-16 | 0.4159  | -5.120E-15 | 0.41279  | 8.009E-16  |
| 286   | 0.00000      | 4C26TB     | LinStatic | -4.570E-16 | 0.0037  | -6.489E-16 | 0.38618  | 5.823E-16  |
| 286   | 0.46695      | 4C26TB     | LinStatic | -4.570E-16 | 0.0037  | -6.489E-16 | 0.38618  | 8.853E-16  |
| 286   | 0.93391      | 4C26TB     | LinStatic | -4.570E-16 | 0.0037  | -6.489E-16 | 0.38618  | 1.188E-15  |
| 286   | 1.40086      | 4C26TB     | LinStatic | -4.570E-16 | 0.0037  | -6.489E-16 | 0.38618  | 1.491E-15  |
| 286   | 1.86781      | 4C26TB     | LinStatic | -4.570E-16 | 0.0037  | -6.489E-16 | 0.38618  | 1.794E-15  |
| 287   | 0.00000      | 4C26TB     | LinStatic | -4.964E-16 | 0.1022  | 1.881E-15  | -0.43139 | 2.209E-15  |
| 287   | 0.46695      | 4C26TB     | LinStatic | -4.964E-16 | 0.1022  | 1.881E-15  | -0.43139 | 1.331E-15  |
| 287   | 0.93391      | 4C26TB     | LinStatic | -4.964E-16 | 0.1022  | 1.881E-15  | -0.43139 | 4.525E-16  |
| 287   | 1.40086      | 4C26TB     | LinStatic | -4.964E-16 | 0.1022  | 1.881E-15  | -0.43139 | -4.256E-16 |
| 287   | 1.86781      | 4C26TB     | LinStatic | -4.964E-16 | 0.1022  | 1.881E-15  | -0.43139 | -1.304E-15 |
| 288   | 0.00000      | 4C26TB     | LinStatic | -7.912E-16 | -0.2578 | 2.847E-15  | -0.42528 | 2.068E-15  |
| 288   | 0.46695      | 4C26TB     | LinStatic | -7.912E-16 | -0.2578 | 2.847E-15  | -0.42528 | 7.384E-16  |
| 288   | 0.93391      | 4C26TB     | LinStatic | -7.912E-16 | -0.2578 | 2.847E-15  | -0.42528 | -5.912E-16 |
| 288   | 1.40086      | 4C26TB     | LinStatic | -7.912E-16 | -0.2578 | 2.847E-15  | -0.42528 | -1.921E-15 |
| 288   | 1.86781      | 4C26TB     | LinStatic | -7.912E-16 | -0.2578 | 2.847E-15  | -0.42528 | -3.250E-15 |
| 289   | 0.00000      | 4C26TB     | LinStatic | -1.008E-15 | -0.0175 | 2.809E-15  | -0.21756 | 7.241E-16  |
| 289   | 0.46695      | 4C26TB     | LinStatic | -1.008E-15 | -0.0175 | 2.809E-15  | -0.21756 | -5.876E-16 |
| 289   | 0.93391      | 4C26TB     | LinStatic | -1.008E-15 | -0.0175 | 2.809E-15  | -0.21756 | -1.899E-15 |
| 289   | 1.40086      | 4C26TB     | LinStatic | -1.008E-15 | -0.0175 | 2.809E-15  | -0.21756 | -3.211E-15 |
| 289   | 1.86781      | 4C26TB     | LinStatic | -1.008E-15 | -0.0175 | 2.809E-15  | -0.21756 | -4.523E-15 |
| 290   | 0.00000      | 4C26TB     | LinStatic | -1.139E-15 | -0.0447 | 1.694E-15  | 0.03192  | -1.979E-15 |
| 290   | 0.46695      | 4C26TB     | LinStatic | -1.139E-15 | -0.0447 | 1.694E-15  | 0.03192  | -2.770E-15 |
| 290   | 0.93391      | 4C26TB     | LinStatic | -1.139E-15 | -0.0447 | 1.694E-15  | 0.03192  | -3.561E-15 |
| 290   | 1.40086      | 4C26TB     | LinStatic | -1.139E-15 | -0.0447 | 1.694E-15  | 0.03192  | -4.352E-15 |
| 290   | 1.86781      | 4C26TB     | LinStatic | -1.139E-15 | -0.0447 | 1.694E-15  | 0.03192  | -5.143E-15 |
| 291   | 0.00000      | 4C26TB     | LinStatic | -8.610E-16 | -0.0160 | -7.934E-16 | 0.28149  | -5.901E-15 |
| 291   | 0.46695      | 4C26TB     | LinStatic | -8.610E-16 | -0.0160 | -7.934E-16 | 0.28149  | -5.530E-15 |
| 291   | 0.93391      | 4C26TB     | LinStatic | -8.610E-16 | -0.0160 | -7.934E-16 | 0.28149  | -5.160E-15 |

| Table: Element Forces - Frames, Part 1 of 2 |              |            |           |            |            |            |             |
|---------------------------------------------|--------------|------------|-----------|------------|------------|------------|-------------|
| Frame                                       | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m |
| 291                                         | 1.40086      | 4C26TB     | LinStatic | -8.610E-16 | -0.0160    | -7.934E-16 | 0.28149     |
| 291                                         | 1.86781      | 4C26TB     | LinStatic | -8.610E-16 | -0.0160    | -7.934E-16 | 0.28149     |
| 292                                         | 0.00000      | 4C26TB     | LinStatic | 3.879E-16  | 0.2123     | -5.680E-15 | 0.44538     |
| 292                                         | 0.46695      | 4C26TB     | LinStatic | 3.879E-16  | 0.2123     | -5.680E-15 | 0.44538     |
| 292                                         | 0.93391      | 4C26TB     | LinStatic | 3.879E-16  | 0.2123     | -5.680E-15 | 0.44538     |
| 292                                         | 1.40086      | 4C26TB     | LinStatic | 3.879E-16  | 0.2123     | -5.680E-15 | 0.44538     |
| 292                                         | 1.86781      | 4C26TB     | LinStatic | 3.879E-16  | 0.2123     | -5.680E-15 | 0.44538     |
| 293                                         | 0.00000      | 4C26TB     | LinStatic | -5.258E-16 | -0.0609    | -6.875E-16 | 0.41611     |
| 293                                         | 0.46695      | 4C26TB     | LinStatic | -5.258E-16 | -0.0609    | -6.875E-16 | 0.41611     |
| 293                                         | 0.93391      | 4C26TB     | LinStatic | -5.258E-16 | -0.0609    | -6.875E-16 | 0.41611     |
| 293                                         | 1.40086      | 4C26TB     | LinStatic | -5.258E-16 | -0.0609    | -6.875E-16 | 0.41611     |
| 293                                         | 1.86781      | 4C26TB     | LinStatic | -5.258E-16 | -0.0609    | -6.875E-16 | 0.41611     |
| 294                                         | 0.00000      | 4C26TB     | LinStatic | -5.877E-16 | 0.3119     | 1.962E-15  | -0.44876    |
| 294                                         | 0.46695      | 4C26TB     | LinStatic | -5.877E-16 | 0.3119     | 1.962E-15  | -0.44876    |
| 294                                         | 0.93391      | 4C26TB     | LinStatic | -5.877E-16 | 0.3119     | 1.962E-15  | -0.44876    |
| 294                                         | 1.40086      | 4C26TB     | LinStatic | -5.877E-16 | 0.3119     | 1.962E-15  | -0.44876    |
| 294                                         | 1.86781      | 4C26TB     | LinStatic | -5.877E-16 | 0.3119     | 1.962E-15  | -0.44876    |
| 295                                         | 0.00000      | 4C26TB     | LinStatic | -7.558E-16 | 0.0796     | 2.946E-15  | -0.45148    |
| 295                                         | 0.46695      | 4C26TB     | LinStatic | -7.558E-16 | 0.0796     | 2.946E-15  | -0.45148    |
| 295                                         | 0.93391      | 4C26TB     | LinStatic | -7.558E-16 | 0.0796     | 2.946E-15  | -0.45148    |
| 295                                         | 1.40086      | 4C26TB     | LinStatic | -7.558E-16 | 0.0796     | 2.946E-15  | -0.45148    |
| 295                                         | 1.86781      | 4C26TB     | LinStatic | -7.558E-16 | 0.0796     | 2.946E-15  | -0.45148    |
| 296                                         | 0.00000      | 4C26TB     | LinStatic | -9.175E-16 | 0.1134     | 2.850E-15  | -0.23961    |
| 296                                         | 0.46695      | 4C26TB     | LinStatic | -9.175E-16 | 0.1134     | 2.850E-15  | -0.23961    |
| 296                                         | 0.93391      | 4C26TB     | LinStatic | -9.175E-16 | 0.1134     | 2.850E-15  | -0.23961    |
| 296                                         | 1.40086      | 4C26TB     | LinStatic | -9.175E-16 | 0.1134     | 2.850E-15  | -0.23961    |
| 296                                         | 1.86781      | 4C26TB     | LinStatic | -9.175E-16 | 0.1134     | 2.850E-15  | -0.23961    |
| 297                                         | 0.00000      | 4C26TB     | LinStatic | -1.058E-15 | -0.0411    | 1.639E-15  | 0.01814     |
| 297                                         | 0.46695      | 4C26TB     | LinStatic | -1.058E-15 | -0.0411    | 1.639E-15  | 0.01814     |
| 297                                         | 0.93391      | 4C26TB     | LinStatic | -1.058E-15 | -0.0411    | 1.639E-15  | 0.01814     |
| 297                                         | 1.40086      | 4C26TB     | LinStatic | -1.058E-15 | -0.0411    | 1.639E-15  | 0.01814     |
| 297                                         | 1.86781      | 4C26TB     | LinStatic | -1.058E-15 | -0.0411    | 1.639E-15  | 0.01814     |
| 298                                         | 0.00000      | 4C26TB     | LinStatic | -7.710E-16 | -0.1594    | -9.684E-16 | 0.28163     |
| 298                                         | 0.46695      | 4C26TB     | LinStatic | -7.710E-16 | -0.1594    | -9.684E-16 | 0.28163     |
| 298                                         | 0.93391      | 4C26TB     | LinStatic | -7.710E-16 | -0.1594    | -9.684E-16 | 0.28163     |
| 298                                         | 1.40086      | 4C26TB     | LinStatic | -7.710E-16 | -0.1594    | -9.684E-16 | 0.28163     |
| 298                                         | 1.86781      | 4C26TB     | LinStatic | -7.710E-16 | -0.1594    | -9.684E-16 | 0.28163     |
| 299                                         | 0.00000      | 4C26TB     | LinStatic | 2.568E-15  | -0.1273    | -5.820E-15 | 0.46250     |
| 299                                         | 0.46695      | 4C26TB     | LinStatic | 2.568E-15  | -0.1273    | -5.820E-15 | 0.46250     |
| 299                                         | 0.93391      | 4C26TB     | LinStatic | 2.568E-15  | -0.1273    | -5.820E-15 | 0.46250     |
| 299                                         | 1.40086      | 4C26TB     | LinStatic | 2.568E-15  | -0.1273    | -5.820E-15 | 0.46250     |
| 299                                         | 1.86781      | 4C26TB     | LinStatic | 2.568E-15  | -0.1273    | -5.820E-15 | 0.46250     |
| 300                                         | 0.00000      | 4C26TB     | LinStatic | -1.020E-15 | -0.2553    | -6.560E-16 | 0.43561     |
| 300                                         | 0.46695      | 4C26TB     | LinStatic | -1.020E-15 | -0.2553    | -6.560E-16 | 0.43561     |
| 300                                         | 0.93391      | 4C26TB     | LinStatic | -1.020E-15 | -0.2553    | -6.560E-16 | 0.43561     |
| 300                                         | 1.40086      | 4C26TB     | LinStatic | -1.020E-15 | -0.2553    | -6.560E-16 | 0.43561     |
| 300                                         | 1.86781      | 4C26TB     | LinStatic | -1.020E-15 | -0.2553    | -6.560E-16 | 0.43561     |
| 301                                         | 0.00000      | 4C26TB     | LinStatic | -7.948E-16 | 0.9455     | 1.891E-15  | -0.45332    |
| 301                                         | 0.46695      | 4C26TB     | LinStatic | -7.948E-16 | 0.9455     | 1.891E-15  | -0.45332    |
| 301                                         | 0.93391      | 4C26TB     | LinStatic | -7.948E-16 | 0.9455     | 1.891E-15  | -0.45332    |
| 301                                         | 1.40086      | 4C26TB     | LinStatic | -7.948E-16 | 0.9455     | 1.891E-15  | -0.45332    |
| 301                                         | 1.86781      | 4C26TB     | LinStatic | -7.948E-16 | 0.9455     | 1.891E-15  | -0.45332    |
| 302                                         | 0.00000      | 4C26TB     | LinStatic | -7.381E-16 | 0.8209     | 2.836E-15  | -0.46200    |
| 302                                         | 0.46695      | 4C26TB     | LinStatic | -7.381E-16 | 0.8209     | 2.836E-15  | -0.46200    |
| 302                                         | 0.93391      | 4C26TB     | LinStatic | -7.381E-16 | 0.8209     | 2.836E-15  | -0.46200    |
| 302                                         | 1.40086      | 4C26TB     | LinStatic | -7.381E-16 | 0.8209     | 2.836E-15  | -0.46200    |
| 302                                         | 1.86781      | 4C26TB     | LinStatic | -7.381E-16 | 0.8209     | 2.836E-15  | -0.46200    |
| 303                                         | 0.00000      | 4C26TB     | LinStatic | -8.225E-16 | 0.4832     | 2.674E-15  | -0.25246    |
| 303                                         | 0.46695      | 4C26TB     | LinStatic | -8.225E-16 | 0.4832     | 2.674E-15  | -0.25246    |

| Table: Element Forces - Frames, Part 1 of 2 |              |            |           |            |            |            |             |
|---------------------------------------------|--------------|------------|-----------|------------|------------|------------|-------------|
| Frame                                       | Station<br>m | OutputCase | CaseType  | P<br>Tonf  | V2<br>Tonf | V3<br>Tonf | T<br>Tonf-m |
| 303                                         | 0.93391      | 4C26TB     | LinStatic | -8.225E-16 | 0.4832     | 2.674E-15  | -0.25246    |
| 303                                         | 1.40086      | 4C26TB     | LinStatic | -8.225E-16 | 0.4832     | 2.674E-15  | -0.25246    |
| 303                                         | 1.86781      | 4C26TB     | LinStatic | -8.225E-16 | 0.4832     | 2.674E-15  | -0.25246    |
| 304                                         | 0.00000      | 4C26TB     | LinStatic | -1.052E-15 | -0.0335    | 1.479E-15  | 0.00765     |
| 304                                         | 0.46695      | 4C26TB     | LinStatic | -1.052E-15 | -0.0335    | 1.479E-15  | 0.00765     |
| 304                                         | 0.93391      | 4C26TB     | LinStatic | -1.052E-15 | -0.0335    | 1.479E-15  | 0.00765     |
| 304                                         | 1.40086      | 4C26TB     | LinStatic | -1.052E-15 | -0.0335    | 1.479E-15  | 0.00765     |
| 304                                         | 1.86781      | 4C26TB     | LinStatic | -1.052E-15 | -0.0335    | 1.479E-15  | 0.00765     |
| 305                                         | 0.00000      | 4C26TB     | LinStatic | -1.421E-15 | -0.5440    | -8.949E-16 | 0.27622     |
| 305                                         | 0.46695      | 4C26TB     | LinStatic | -1.421E-15 | -0.5440    | -8.949E-16 | 0.27622     |
| 305                                         | 0.93391      | 4C26TB     | LinStatic | -1.421E-15 | -0.5440    | -8.949E-16 | 0.27622     |
| 305                                         | 1.40086      | 4C26TB     | LinStatic | -1.421E-15 | -0.5440    | -8.949E-16 | 0.27622     |
| 305                                         | 1.86781      | 4C26TB     | LinStatic | -1.421E-15 | -0.5440    | -8.949E-16 | 0.27622     |
| 306                                         | 0.00000      | 4C26TB     | LinStatic | 6.698E-15  | -0.8659    | -5.126E-15 | 0.46603     |
| 306                                         | 0.46695      | 4C26TB     | LinStatic | 6.698E-15  | -0.8659    | -5.126E-15 | 0.46603     |
| 306                                         | 0.93391      | 4C26TB     | LinStatic | 6.698E-15  | -0.8659    | -5.126E-15 | 0.46603     |
| 306                                         | 1.40086      | 4C26TB     | LinStatic | 6.698E-15  | -0.8659    | -5.126E-15 | 0.46603     |
| 306                                         | 1.86781      | 4C26TB     | LinStatic | 6.698E-15  | -0.8659    | -5.126E-15 | 0.46603     |
| 307                                         | 0.00000      | 4C26TB     | LinStatic | -2.627E-15 | -0.8638    | -1.217E-15 | 0.44299     |
| 307                                         | 0.46695      | 4C26TB     | LinStatic | -2.627E-15 | -0.8638    | -1.217E-15 | 0.44299     |
| 307                                         | 0.93391      | 4C26TB     | LinStatic | -2.627E-15 | -0.8638    | -1.217E-15 | 0.44299     |
| 307                                         | 1.40086      | 4C26TB     | LinStatic | -2.627E-15 | -0.8638    | -1.217E-15 | 0.44299     |
| 307                                         | 1.86781      | 4C26TB     | LinStatic | -2.627E-15 | -0.8638    | -1.217E-15 | 0.44299     |

Table: Element Forces - Frames, Part 2 of 2

| Table: Element Forces - Frames, Part 2 of 2 |              |            |              |           |                  |
|---------------------------------------------|--------------|------------|--------------|-----------|------------------|
| Frame                                       | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
| 1                                           | 0.00000      | 4C26TB     | 0.35625      | 1-1       | 0.00000          |
| 1                                           | 0.33659      | 4C26TB     | 0.42726      | 1-1       | 0.33659          |
| 1                                           | 0.67318      | 4C26TB     | 0.49827      | 1-1       | 0.67318          |
| 1                                           | 1.00977      | 4C26TB     | 0.56928      | 1-1       | 1.00977          |
| 2                                           | 0.00000      | 4C26TB     | 0.98139      | 2-1       | 0.00000          |
| 2                                           | 0.33659      | 4C26TB     | 1.13835      | 2-1       | 0.33659          |
| 2                                           | 0.67318      | 4C26TB     | 1.29531      | 2-1       | 0.67318          |
| 2                                           | 1.00977      | 4C26TB     | 1.45227      | 2-1       | 1.00977          |
| 3                                           | 0.00000      | 4C26TB     | 1.86726      | 3-1       | 0.00000          |
| 3                                           | 0.33659      | 4C26TB     | 2.04470      | 3-1       | 0.33659          |
| 3                                           | 0.67318      | 4C26TB     | 2.22215      | 3-1       | 0.67318          |
| 3                                           | 1.00977      | 4C26TB     | 2.39960      | 3-1       | 1.00977          |
| 4                                           | 0.00000      | 4C26TB     | 2.79367      | 4-1       | 0.00000          |
| 4                                           | 0.33659      | 4C26TB     | 2.96986      | 4-1       | 0.33659          |
| 4                                           | 0.67318      | 4C26TB     | 3.14606      | 4-1       | 0.67318          |
| 4                                           | 1.00977      | 4C26TB     | 3.32225      | 4-1       | 1.00977          |
| 5                                           | 0.00000      | 4C26TB     | 3.68189      | 5-1       | 0.00000          |
| 5                                           | 0.33659      | 4C26TB     | 3.84748      | 5-1       | 0.33659          |
| 5                                           | 0.67318      | 4C26TB     | 4.01307      | 5-1       | 0.67318          |
| 5                                           | 1.00977      | 4C26TB     | 4.17866      | 5-1       | 1.00977          |
| 6                                           | 0.00000      | 4C26TB     | 4.49465      | 6-1       | 0.00000          |
| 6                                           | 0.33659      | 4C26TB     | 4.64250      | 6-1       | 0.33659          |
| 6                                           | 0.67318      | 4C26TB     | 4.79034      | 6-1       | 0.67318          |
| 6                                           | 1.00977      | 4C26TB     | 4.93819      | 6-1       | 1.00977          |
| 7                                           | 0.00000      | 4C26TB     | 5.20354      | 7-1       | 0.00000          |
| 7                                           | 0.33659      | 4C26TB     | 5.32627      | 7-1       | 0.33659          |
| 7                                           | 0.67318      | 4C26TB     | 5.44899      | 7-1       | 0.67318          |
| 7                                           | 1.00977      | 4C26TB     | 5.57172      | 7-1       | 1.00977          |
| 8                                           | 0.00000      | 4C26TB     | 5.78073      | 8-1       | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 8     | 0.33659 | 4C26TB     | 5.87168  | 8-1       | 0.33659     |
| 8     | 0.67318 | 4C26TB     | 5.96263  | 8-1       | 0.67318     |
| 8     | 1.00977 | 4C26TB     | 6.05358  | 8-1       | 1.00977     |
| 9     | 0.00000 | 4C26TB     | 6.20167  | 9-1       | 0.00000     |
| 9     | 0.33659 | 4C26TB     | 6.25593  | 9-1       | 0.33659     |
| 9     | 0.67318 | 4C26TB     | 6.31019  | 9-1       | 0.67318     |
| 9     | 1.00977 | 4C26TB     | 6.36445  | 9-1       | 1.00977     |
| 10    | 0.00000 | 4C26TB     | 6.44830  | 10-1      | 0.00000     |
| 10    | 0.33659 | 4C26TB     | 6.46294  | 10-1      | 0.33659     |
| 10    | 0.67318 | 4C26TB     | 6.47758  | 10-1      | 0.67318     |
| 10    | 1.00977 | 4C26TB     | 6.49221  | 10-1      | 1.00977     |
| 11    | 0.00000 | 4C26TB     | 6.50980  | 11-1      | 0.00000     |
| 11    | 0.33659 | 4C26TB     | 6.48383  | 11-1      | 0.33659     |
| 11    | 0.67318 | 4C26TB     | 6.45786  | 11-1      | 0.67318     |
| 11    | 1.00977 | 4C26TB     | 6.43189  | 11-1      | 1.00977     |
| 12    | 0.00000 | 4C26TB     | 6.38232  | 12-1      | 0.00000     |
| 12    | 0.33659 | 4C26TB     | 6.31703  | 12-1      | 0.33659     |
| 12    | 0.67318 | 4C26TB     | 6.25175  | 12-1      | 0.67318     |
| 12    | 1.00977 | 4C26TB     | 6.18647  | 12-1      | 1.00977     |
| 13    | 0.00000 | 4C26TB     | 6.07011  | 13-1      | 0.00000     |
| 13    | 0.33659 | 4C26TB     | 5.96894  | 13-1      | 0.33659     |
| 13    | 0.67318 | 4C26TB     | 5.86777  | 13-1      | 0.67318     |
| 13    | 1.00977 | 4C26TB     | 5.76661  | 13-1      | 1.00977     |
| 14    | 0.00000 | 4C26TB     | 5.58511  | 14-1      | 0.00000     |
| 14    | 0.33659 | 4C26TB     | 5.45352  | 14-1      | 0.33659     |
| 14    | 0.67318 | 4C26TB     | 5.32193  | 14-1      | 0.67318     |
| 14    | 1.00977 | 4C26TB     | 5.19034  | 14-1      | 1.00977     |
| 15    | 0.00000 | 4C26TB     | 4.94664  | 15-1      | 0.00000     |
| 15    | 0.33659 | 4C26TB     | 4.79218  | 15-1      | 0.33659     |
| 15    | 0.67318 | 4C26TB     | 4.63772  | 15-1      | 0.67318     |
| 15    | 1.00977 | 4C26TB     | 4.48326  | 15-1      | 1.00977     |
| 16    | 0.00000 | 4C26TB     | 4.18182  | 16-1      | 0.00000     |
| 16    | 0.33659 | 4C26TB     | 4.01355  | 16-1      | 0.33659     |
| 16    | 0.67318 | 4C26TB     | 3.84528  | 16-1      | 0.67318     |
| 16    | 1.00977 | 4C26TB     | 3.67701  | 16-1      | 1.00977     |
| 17    | 0.00000 | 4C26TB     | 3.32397  | 17-1      | 0.00000     |
| 17    | 0.33659 | 4C26TB     | 3.15174  | 17-1      | 0.33659     |
| 17    | 0.67318 | 4C26TB     | 2.97952  | 17-1      | 0.67318     |
| 17    | 1.00977 | 4C26TB     | 2.80729  | 17-1      | 1.00977     |
| 18    | 0.00000 | 4C26TB     | 2.40977  | 18-1      | 0.00000     |
| 18    | 0.33659 | 4C26TB     | 2.24634  | 18-1      | 0.33659     |
| 18    | 0.67318 | 4C26TB     | 2.08292  | 18-1      | 0.67318     |
| 18    | 1.00977 | 4C26TB     | 1.91950  | 18-1      | 1.00977     |
| 19    | 0.00000 | 4C26TB     | 1.48327  | 19-1      | 0.00000     |
| 19    | 0.33659 | 4C26TB     | 1.35425  | 19-1      | 0.33659     |
| 19    | 0.67318 | 4C26TB     | 1.22522  | 19-1      | 0.67318     |
| 19    | 1.00977 | 4C26TB     | 1.09619  | 19-1      | 1.00977     |
| 20    | 0.00000 | 4C26TB     | 0.61917  | 20-1      | 0.00000     |
| 20    | 0.33659 | 4C26TB     | 0.59511  | 20-1      | 0.33659     |
| 20    | 0.67318 | 4C26TB     | 0.57106  | 20-1      | 0.67318     |
| 20    | 1.00977 | 4C26TB     | 0.54700  | 20-1      | 1.00977     |
| 21    | 0.00000 | 4C26TB     | -0.15296 | 21-1      | 0.00000     |
| 21    | 0.33659 | 4C26TB     | 1.38587  | 21-1      | 0.33659     |
| 21    | 0.67318 | 4C26TB     | 2.92469  | 21-1      | 0.67318     |
| 21    | 1.00977 | 4C26TB     | 4.46352  | 21-1      | 1.00977     |
| 22    | 0.00000 | 4C26TB     | 4.44182  | 22-1      | 0.00000     |
| 22    | 0.33659 | 4C26TB     | 5.93756  | 22-1      | 0.33659     |
| 22    | 0.67318 | 4C26TB     | 7.43329  | 22-1      | 0.67318     |
| 22    | 1.00977 | 4C26TB     | 8.92902  | 22-1      | 1.00977     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 23    | 0.00000 | 4C26TB     | 8.95474  | 23-1      | 0.00000     |
| 23    | 0.33659 | 4C26TB     | 10.35852 | 23-1      | 0.33659     |
| 23    | 0.67318 | 4C26TB     | 11.76230 | 23-1      | 0.67318     |
| 23    | 1.00977 | 4C26TB     | 13.16609 | 23-1      | 1.00977     |
| 24    | 0.00000 | 4C26TB     | 13.20806 | 24-1      | 0.00000     |
| 24    | 0.33659 | 4C26TB     | 14.47309 | 24-1      | 0.33659     |
| 24    | 0.67318 | 4C26TB     | 15.73812 | 24-1      | 0.67318     |
| 24    | 1.00977 | 4C26TB     | 17.00316 | 24-1      | 1.00977     |
| 25    | 0.00000 | 4C26TB     | 17.04675 | 25-1      | 0.00000     |
| 25    | 0.33659 | 4C26TB     | 18.13721 | 25-1      | 0.33659     |
| 25    | 0.67318 | 4C26TB     | 19.22767 | 25-1      | 0.67318     |
| 25    | 1.00977 | 4C26TB     | 20.31813 | 25-1      | 1.00977     |
| 26    | 0.00000 | 4C26TB     | 20.35781 | 26-1      | 0.00000     |
| 26    | 0.33659 | 4C26TB     | 21.25402 | 26-1      | 0.33659     |
| 26    | 0.67318 | 4C26TB     | 22.15023 | 26-1      | 0.67318     |
| 26    | 1.00977 | 4C26TB     | 23.04644 | 26-1      | 1.00977     |
| 27    | 0.00000 | 4C26TB     | 23.08492 | 27-1      | 0.00000     |
| 27    | 0.33659 | 4C26TB     | 23.78292 | 27-1      | 0.33659     |
| 27    | 0.67318 | 4C26TB     | 24.48091 | 27-1      | 0.67318     |
| 27    | 1.00977 | 4C26TB     | 25.17891 | 27-1      | 1.00977     |
| 28    | 0.00000 | 4C26TB     | 25.22305 | 28-1      | 0.00000     |
| 28    | 0.33659 | 4C26TB     | 25.72330 | 28-1      | 0.33659     |
| 28    | 0.67318 | 4C26TB     | 26.22355 | 28-1      | 0.67318     |
| 28    | 1.00977 | 4C26TB     | 26.72379 | 28-1      | 1.00977     |
| 29    | 0.00000 | 4C26TB     | 26.77645 | 29-1      | 0.00000     |
| 29    | 0.33659 | 4C26TB     | 27.07857 | 29-1      | 0.33659     |
| 29    | 0.67318 | 4C26TB     | 27.38069 | 29-1      | 0.67318     |
| 29    | 1.00977 | 4C26TB     | 27.68281 | 29-1      | 1.00977     |
| 30    | 0.00000 | 4C26TB     | 27.74340 | 30-1      | 0.00000     |
| 30    | 0.33659 | 4C26TB     | 27.84654 | 30-1      | 0.33659     |
| 30    | 0.67318 | 4C26TB     | 27.94968 | 30-1      | 0.67318     |
| 30    | 1.00977 | 4C26TB     | 28.05282 | 30-1      | 1.00977     |
| 31    | 0.00000 | 4C26TB     | 28.12108 | 31-1      | 0.00000     |
| 31    | 0.33659 | 4C26TB     | 28.02624 | 31-1      | 0.33659     |
| 31    | 0.67318 | 4C26TB     | 27.93141 | 31-1      | 0.67318     |
| 31    | 1.00977 | 4C26TB     | 27.83657 | 31-1      | 1.00977     |
| 32    | 0.00000 | 4C26TB     | 27.91247 | 32-1      | 0.00000     |
| 32    | 0.33659 | 4C26TB     | 27.61894 | 32-1      | 0.33659     |
| 32    | 0.67318 | 4C26TB     | 27.32541 | 32-1      | 0.67318     |
| 32    | 1.00977 | 4C26TB     | 27.03188 | 32-1      | 1.00977     |
| 33    | 0.00000 | 4C26TB     | 27.11315 | 33-1      | 0.00000     |
| 33    | 0.33659 | 4C26TB     | 26.62058 | 33-1      | 0.33659     |
| 33    | 0.67318 | 4C26TB     | 26.12801 | 33-1      | 0.67318     |
| 33    | 1.00977 | 4C26TB     | 25.63544 | 33-1      | 1.00977     |
| 34    | 0.00000 | 4C26TB     | 25.72077 | 34-1      | 0.00000     |
| 34    | 0.33659 | 4C26TB     | 25.02959 | 34-1      | 0.33659     |
| 34    | 0.67318 | 4C26TB     | 24.33840 | 34-1      | 0.67318     |
| 34    | 1.00977 | 4C26TB     | 23.64721 | 34-1      | 1.00977     |
| 35    | 0.00000 | 4C26TB     | 23.73393 | 35-1      | 0.00000     |
| 35    | 0.33659 | 4C26TB     | 22.84316 | 35-1      | 0.33659     |
| 35    | 0.67318 | 4C26TB     | 21.95238 | 35-1      | 0.67318     |
| 35    | 1.00977 | 4C26TB     | 21.06161 | 35-1      | 1.00977     |
| 36    | 0.00000 | 4C26TB     | 21.14175 | 36-1      | 0.00000     |
| 36    | 0.33659 | 4C26TB     | 20.05183 | 36-1      | 0.33659     |
| 36    | 0.67318 | 4C26TB     | 18.96190 | 36-1      | 0.67318     |
| 36    | 1.00977 | 4C26TB     | 17.87198 | 36-1      | 1.00977     |
| 37    | 0.00000 | 4C26TB     | 17.93522 | 37-1      | 0.00000     |
| 37    | 0.33659 | 4C26TB     | 16.65747 | 37-1      | 0.33659     |
| 37    | 0.67318 | 4C26TB     | 15.37973 | 37-1      | 0.67318     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 37    | 1.00977      | 4C26TB     | 14.10198     | 37-1      | 1.00977          |
| 38    | 0.00000      | 4C26TB     | 14.14052     | 38-1      | 0.00000          |
| 38    | 0.33659      | 4C26TB     | 12.70144     | 38-1      | 0.33659          |
| 38    | 0.67318      | 4C26TB     | 11.26235     | 38-1      | 0.67318          |
| 38    | 1.00977      | 4C26TB     | 9.82326      | 38-1      | 1.00977          |
| 39    | 0.00000      | 4C26TB     | 9.82939      | 39-1      | 0.00000          |
| 39    | 0.33659      | 4C26TB     | 8.26913      | 39-1      | 0.33659          |
| 39    | 0.67318      | 4C26TB     | 6.70887      | 39-1      | 0.67318          |
| 39    | 1.00977      | 4C26TB     | 5.14861      | 39-1      | 1.00977          |
| 40    | 0.00000      | 4C26TB     | 5.09989      | 40-1      | 0.00000          |
| 40    | 0.33659      | 4C26TB     | 3.46145      | 40-1      | 0.33659          |
| 40    | 0.67318      | 4C26TB     | 1.82301      | 40-1      | 0.67318          |
| 40    | 1.00977      | 4C26TB     | 0.18457      | 40-1      | 1.00977          |
| 41    | 0.00000      | 4C26TB     | -0.33640     | 41-1      | 0.00000          |
| 41    | 0.33659      | 4C26TB     | 2.75052      | 41-1      | 0.33659          |
| 41    | 0.67318      | 4C26TB     | 5.83743      | 41-1      | 0.67318          |
| 41    | 1.00977      | 4C26TB     | 8.92435      | 41-1      | 1.00977          |
| 42    | 0.00000      | 4C26TB     | 8.70066      | 42-1      | 0.00000          |
| 42    | 0.33659      | 4C26TB     | 11.79837     | 42-1      | 0.33659          |
| 42    | 0.67318      | 4C26TB     | 14.89608     | 42-1      | 0.67318          |
| 42    | 1.00977      | 4C26TB     | 17.99379     | 42-1      | 1.00977          |
| 43    | 0.00000      | 4C26TB     | 17.82480     | 43-1      | 0.00000          |
| 43    | 0.33659      | 4C26TB     | 20.99935     | 43-1      | 0.33659          |
| 43    | 0.67318      | 4C26TB     | 24.17390     | 43-1      | 0.67318          |
| 43    | 1.00977      | 4C26TB     | 27.34845     | 43-1      | 1.00977          |
| 44    | 0.00000      | 4C26TB     | 27.22087     | 44-1      | 0.00000          |
| 44    | 0.33659      | 4C26TB     | 29.74436     | 44-1      | 0.33659          |
| 44    | 0.67318      | 4C26TB     | 32.26785     | 44-1      | 0.67318          |
| 44    | 1.00977      | 4C26TB     | 34.79133     | 44-1      | 1.00977          |
| 45    | 0.00000      | 4C26TB     | 34.70459     | 45-1      | 0.00000          |
| 45    | 0.33659      | 4C26TB     | 36.31930     | 45-1      | 0.33659          |
| 45    | 0.67318      | 4C26TB     | 37.93401     | 45-1      | 0.67318          |
| 45    | 1.00977      | 4C26TB     | 39.54872     | 45-1      | 1.00977          |
| 46    | 0.00000      | 4C26TB     | 39.50283     | 46-1      | 0.00000          |
| 46    | 0.33659      | 4C26TB     | 39.92695     | 46-1      | 0.33659          |
| 46    | 0.67318      | 4C26TB     | 40.35108     | 46-1      | 0.67318          |
| 46    | 1.00977      | 4C26TB     | 40.77520     | 46-1      | 1.00977          |
| 47    | 0.00000      | 4C26TB     | 40.76330     | 47-1      | 0.00000          |
| 47    | 0.33659      | 4C26TB     | 41.35395     | 47-1      | 0.33659          |
| 47    | 0.67318      | 4C26TB     | 41.94461     | 47-1      | 0.67318          |
| 47    | 1.00977      | 4C26TB     | 42.53527     | 47-1      | 1.00977          |
| 48    | 0.00000      | 4C26TB     | 42.54930     | 48-1      | 0.00000          |
| 48    | 0.33659      | 4C26TB     | 43.30005     | 48-1      | 0.33659          |
| 48    | 0.67318      | 4C26TB     | 44.05080     | 48-1      | 0.67318          |
| 48    | 1.00977      | 4C26TB     | 44.80154     | 48-1      | 1.00977          |
| 49    | 0.00000      | 4C26TB     | 44.83871     | 49-1      | 0.00000          |
| 49    | 0.33659      | 4C26TB     | 45.40852     | 49-1      | 0.33659          |
| 49    | 0.67318      | 4C26TB     | 45.97832     | 49-1      | 0.67318          |
| 49    | 1.00977      | 4C26TB     | 46.54813     | 49-1      | 1.00977          |
| 50    | 0.00000      | 4C26TB     | 46.60880     | 50-1      | 0.00000          |
| 50    | 0.33659      | 4C26TB     | 46.49083     | 50-1      | 0.33659          |
| 50    | 0.67318      | 4C26TB     | 46.37286     | 50-1      | 0.67318          |
| 50    | 1.00977      | 4C26TB     | 46.25489     | 50-1      | 1.00977          |
| 51    | 0.00000      | 4C26TB     | 46.33771     | 51-1      | 0.00000          |
| 51    | 0.33659      | 4C26TB     | 46.36993     | 51-1      | 0.33659          |
| 51    | 0.67318      | 4C26TB     | 46.40216     | 51-1      | 0.67318          |
| 51    | 1.00977      | 4C26TB     | 46.43439     | 51-1      | 1.00977          |
| 52    | 0.00000      | 4C26TB     | 46.53740     | 52-1      | 0.00000          |
| 52    | 0.33659      | 4C26TB     | 46.11340     | 52-1      | 0.33659          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 52    | 0.67318      | 4C26TB     | 45.68940     | 52-1      | 0.67318          |
| 52    | 1.00977      | 4C26TB     | 45.26539     | 52-1      | 1.00977          |
| 53    | 0.00000      | 4C26TB     | 45.38801     | 53-1      | 0.00000          |
| 53    | 0.33659      | 4C26TB     | 44.54257     | 53-1      | 0.33659          |
| 53    | 0.67318      | 4C26TB     | 43.69713     | 53-1      | 0.67318          |
| 53    | 1.00977      | 4C26TB     | 42.85169     | 53-1      | 1.00977          |
| 54    | 0.00000      | 4C26TB     | 42.99205     | 54-1      | 0.00000          |
| 54    | 0.33659      | 4C26TB     | 42.29808     | 54-1      | 0.33659          |
| 54    | 0.67318      | 4C26TB     | 41.60411     | 54-1      | 0.67318          |
| 54    | 1.00977      | 4C26TB     | 40.91014     | 54-1      | 1.00977          |
| 55    | 0.00000      | 4C26TB     | 41.06700     | 55-1      | 0.00000          |
| 55    | 0.33659      | 4C26TB     | 40.52760     | 55-1      | 0.33659          |
| 55    | 0.67318      | 4C26TB     | 39.98820     | 55-1      | 0.67318          |
| 55    | 1.00977      | 4C26TB     | 39.44880     | 55-1      | 1.00977          |
| 56    | 0.00000      | 4C26TB     | 39.62463     | 56-1      | 0.00000          |
| 56    | 0.33659      | 4C26TB     | 38.19897     | 56-1      | 0.33659          |
| 56    | 0.67318      | 4C26TB     | 36.77331     | 56-1      | 0.67318          |
| 56    | 1.00977      | 4C26TB     | 35.34764     | 56-1      | 1.00977          |
| 57    | 0.00000      | 4C26TB     | 35.54325     | 57-1      | 0.00000          |
| 57    | 0.33659      | 4C26TB     | 33.20775     | 57-1      | 0.33659          |
| 57    | 0.67318      | 4C26TB     | 30.87225     | 57-1      | 0.67318          |
| 57    | 1.00977      | 4C26TB     | 28.53675     | 57-1      | 1.00977          |
| 58    | 0.00000      | 4C26TB     | 28.74735     | 58-1      | 0.00000          |
| 58    | 0.33659      | 4C26TB     | 25.44463     | 58-1      | 0.33659          |
| 58    | 0.67318      | 4C26TB     | 22.14191     | 58-1      | 0.67318          |
| 58    | 1.00977      | 4C26TB     | 18.83919     | 58-1      | 1.00977          |
| 59    | 0.00000      | 4C26TB     | 19.04877     | 59-1      | 0.00000          |
| 59    | 0.33659      | 4C26TB     | 15.82693     | 59-1      | 0.33659          |
| 59    | 0.67318      | 4C26TB     | 12.60510     | 59-1      | 0.67318          |
| 59    | 1.00977      | 4C26TB     | 9.38326      | 59-1      | 1.00977          |
| 60    | 0.00000      | 4C26TB     | 9.56009      | 60-1      | 0.00000          |
| 60    | 0.33659      | 4C26TB     | 6.34962      | 60-1      | 0.33659          |
| 60    | 0.67318      | 4C26TB     | 3.13915      | 60-1      | 0.67318          |
| 60    | 1.00977      | 4C26TB     | -0.07132     | 60-1      | 1.00977          |
| 61    | 0.00000      | 4C26TB     | -0.32364     | 61-1      | 0.00000          |
| 61    | 0.33659      | 4C26TB     | 3.66720      | 61-1      | 0.33659          |
| 61    | 0.67318      | 4C26TB     | 7.65804      | 61-1      | 0.67318          |
| 61    | 1.00977      | 4C26TB     | 11.64888     | 61-1      | 1.00977          |
| 62    | 0.00000      | 4C26TB     | 11.36685     | 62-1      | 0.00000          |
| 62    | 0.33659      | 4C26TB     | 15.31788     | 62-1      | 0.33659          |
| 62    | 0.67318      | 4C26TB     | 19.26890     | 62-1      | 0.67318          |
| 62    | 1.00977      | 4C26TB     | 23.21993     | 62-1      | 1.00977          |
| 63    | 0.00000      | 4C26TB     | 22.96446     | 63-1      | 0.00000          |
| 63    | 0.33659      | 4C26TB     | 26.92514     | 63-1      | 0.33659          |
| 63    | 0.67318      | 4C26TB     | 30.88582     | 63-1      | 0.67318          |
| 63    | 1.00977      | 4C26TB     | 34.84650     | 63-1      | 1.00977          |
| 64    | 0.00000      | 4C26TB     | 34.61882     | 64-1      | 0.00000          |
| 64    | 0.33659      | 4C26TB     | 37.51627     | 64-1      | 0.33659          |
| 64    | 0.67318      | 4C26TB     | 40.41372     | 64-1      | 0.67318          |
| 64    | 1.00977      | 4C26TB     | 43.31117     | 64-1      | 1.00977          |
| 65    | 0.00000      | 4C26TB     | 43.11427     | 65-1      | 0.00000          |
| 65    | 0.33659      | 4C26TB     | 44.99060     | 65-1      | 0.33659          |
| 65    | 0.67318      | 4C26TB     | 46.86693     | 65-1      | 0.67318          |
| 65    | 1.00977      | 4C26TB     | 48.74327     | 65-1      | 1.00977          |
| 66    | 0.00000      | 4C26TB     | 48.57752     | 66-1      | 0.00000          |
| 66    | 0.33659      | 4C26TB     | 49.45677     | 66-1      | 0.33659          |
| 66    | 0.67318      | 4C26TB     | 50.33601     | 66-1      | 0.67318          |
| 66    | 1.00977      | 4C26TB     | 51.21525     | 66-1      | 1.00977          |
| 67    | 0.00000      | 4C26TB     | 51.08274     | 67-1      | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 67    | 0.33659 | 4C26TB     | 52.02044 | 67-1      | 0.33659     |
| 67    | 0.67318 | 4C26TB     | 52.95815 | 67-1      | 0.67318     |
| 67    | 1.00977 | 4C26TB     | 53.89585 | 67-1      | 1.00977     |
| 68    | 0.00000 | 4C26TB     | 53.80013 | 68-1      | 0.00000     |
| 68    | 0.33659 | 4C26TB     | 54.80890 | 68-1      | 0.33659     |
| 68    | 0.67318 | 4C26TB     | 55.81767 | 68-1      | 0.67318     |
| 68    | 1.00977 | 4C26TB     | 56.82644 | 68-1      | 1.00977     |
| 69    | 0.00000 | 4C26TB     | 56.77025 | 69-1      | 0.00000     |
| 69    | 0.33659 | 4C26TB     | 57.28760 | 69-1      | 0.33659     |
| 69    | 0.67318 | 4C26TB     | 57.80494 | 69-1      | 0.67318     |
| 69    | 1.00977 | 4C26TB     | 58.32229 | 69-1      | 1.00977     |
| 70    | 0.00000 | 4C26TB     | 58.30551 | 70-1      | 0.00000     |
| 70    | 0.33659 | 4C26TB     | 58.30208 | 70-1      | 0.33659     |
| 70    | 0.67318 | 4C26TB     | 58.29864 | 70-1      | 0.67318     |
| 70    | 1.00977 | 4C26TB     | 58.29521 | 70-1      | 1.00977     |
| 71    | 0.00000 | 4C26TB     | 58.31681 | 71-1      | 0.00000     |
| 71    | 0.33659 | 4C26TB     | 58.40177 | 71-1      | 0.33659     |
| 71    | 0.67318 | 4C26TB     | 58.48672 | 71-1      | 0.67318     |
| 71    | 1.00977 | 4C26TB     | 58.57167 | 71-1      | 1.00977     |
| 72    | 0.00000 | 4C26TB     | 58.63230 | 72-1      | 0.00000     |
| 72    | 0.33659 | 4C26TB     | 57.96397 | 72-1      | 0.33659     |
| 72    | 0.67318 | 4C26TB     | 57.29564 | 72-1      | 0.67318     |
| 72    | 1.00977 | 4C26TB     | 56.62732 | 72-1      | 1.00977     |
| 73    | 0.00000 | 4C26TB     | 56.72499 | 73-1      | 0.00000     |
| 73    | 0.33659 | 4C26TB     | 55.80263 | 73-1      | 0.33659     |
| 73    | 0.67318 | 4C26TB     | 54.88027 | 73-1      | 0.67318     |
| 73    | 1.00977 | 4C26TB     | 53.95791 | 73-1      | 1.00977     |
| 74    | 0.00000 | 4C26TB     | 54.08986 | 74-1      | 0.00000     |
| 74    | 0.33659 | 4C26TB     | 53.24344 | 74-1      | 0.33659     |
| 74    | 0.67318 | 4C26TB     | 52.39701 | 74-1      | 0.67318     |
| 74    | 1.00977 | 4C26TB     | 51.55059 | 74-1      | 1.00977     |
| 75    | 0.00000 | 4C26TB     | 51.71584 | 75-1      | 0.00000     |
| 75    | 0.33659 | 4C26TB     | 50.93563 | 75-1      | 0.33659     |
| 75    | 0.67318 | 4C26TB     | 50.15542 | 75-1      | 0.67318     |
| 75    | 1.00977 | 4C26TB     | 49.37522 | 75-1      | 1.00977     |
| 76    | 0.00000 | 4C26TB     | 49.57281 | 76-1      | 0.00000     |
| 76    | 0.33659 | 4C26TB     | 47.48499 | 76-1      | 0.33659     |
| 76    | 0.67318 | 4C26TB     | 45.39718 | 76-1      | 0.67318     |
| 76    | 1.00977 | 4C26TB     | 43.30937 | 76-1      | 1.00977     |
| 77    | 0.00000 | 4C26TB     | 43.53485 | 77-1      | 0.00000     |
| 77    | 0.33659 | 4C26TB     | 40.41596 | 77-1      | 0.33659     |
| 77    | 0.67318 | 4C26TB     | 37.29708 | 77-1      | 0.67318     |
| 77    | 1.00977 | 4C26TB     | 34.17819 | 77-1      | 1.00977     |
| 78    | 0.00000 | 4C26TB     | 34.42228 | 78-1      | 0.00000     |
| 78    | 0.33659 | 4C26TB     | 30.54130 | 78-1      | 0.33659     |
| 78    | 0.67318 | 4C26TB     | 26.66031 | 78-1      | 0.67318     |
| 78    | 1.00977 | 4C26TB     | 22.77933 | 78-1      | 1.00977     |
| 79    | 0.00000 | 4C26TB     | 23.03250 | 79-1      | 0.00000     |
| 79    | 0.33659 | 4C26TB     | 19.14238 | 79-1      | 0.33659     |
| 79    | 0.67318 | 4C26TB     | 15.25226 | 79-1      | 0.67318     |
| 79    | 1.00977 | 4C26TB     | 11.36214 | 79-1      | 1.00977     |
| 80    | 0.00000 | 4C26TB     | 11.61136 | 80-1      | 0.00000     |
| 80    | 0.33659 | 4C26TB     | 7.66924  | 80-1      | 0.33659     |
| 80    | 0.67318 | 4C26TB     | 3.72713  | 80-1      | 0.67318     |
| 80    | 1.00977 | 4C26TB     | -0.21498 | 80-1      | 1.00977     |
| 81    | 0.00000 | 4C26TB     | -0.21498 | 81-1      | 0.00000     |
| 81    | 0.33659 | 4C26TB     | 3.72713  | 81-1      | 0.33659     |
| 81    | 0.67318 | 4C26TB     | 7.66924  | 81-1      | 0.67318     |
| 81    | 1.00977 | 4C26TB     | 11.61136 | 81-1      | 1.00977     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 82    | 0.00000 | 4C26TB     | 11.36214 | 82-1      | 0.00000     |
| 82    | 0.33659 | 4C26TB     | 15.25226 | 82-1      | 0.33659     |
| 82    | 0.67318 | 4C26TB     | 19.14238 | 82-1      | 0.67318     |
| 82    | 1.00977 | 4C26TB     | 23.03250 | 82-1      | 1.00977     |
| 83    | 0.00000 | 4C26TB     | 22.77933 | 83-1      | 0.00000     |
| 83    | 0.33659 | 4C26TB     | 26.66031 | 83-1      | 0.33659     |
| 83    | 0.67318 | 4C26TB     | 30.54130 | 83-1      | 0.67318     |
| 83    | 1.00977 | 4C26TB     | 34.42228 | 83-1      | 1.00977     |
| 84    | 0.00000 | 4C26TB     | 34.17819 | 84-1      | 0.00000     |
| 84    | 0.33659 | 4C26TB     | 37.29708 | 84-1      | 0.33659     |
| 84    | 0.67318 | 4C26TB     | 40.41596 | 84-1      | 0.67318     |
| 84    | 1.00977 | 4C26TB     | 43.53485 | 84-1      | 1.00977     |
| 85    | 0.00000 | 4C26TB     | 43.30937 | 85-1      | 0.00000     |
| 85    | 0.33659 | 4C26TB     | 45.39718 | 85-1      | 0.33659     |
| 85    | 0.67318 | 4C26TB     | 47.48499 | 85-1      | 0.67318     |
| 85    | 1.00977 | 4C26TB     | 49.57281 | 85-1      | 1.00977     |
| 86    | 0.00000 | 4C26TB     | 49.37522 | 86-1      | 0.00000     |
| 86    | 0.33659 | 4C26TB     | 50.15542 | 86-1      | 0.33659     |
| 86    | 0.67318 | 4C26TB     | 50.93563 | 86-1      | 0.67318     |
| 86    | 1.00977 | 4C26TB     | 51.71584 | 86-1      | 1.00977     |
| 87    | 0.00000 | 4C26TB     | 51.55059 | 87-1      | 0.00000     |
| 87    | 0.33659 | 4C26TB     | 52.39701 | 87-1      | 0.33659     |
| 87    | 0.67318 | 4C26TB     | 53.24344 | 87-1      | 0.67318     |
| 87    | 1.00977 | 4C26TB     | 54.08986 | 87-1      | 1.00977     |
| 88    | 0.00000 | 4C26TB     | 53.95791 | 88-1      | 0.00000     |
| 88    | 0.33659 | 4C26TB     | 54.88027 | 88-1      | 0.33659     |
| 88    | 0.67318 | 4C26TB     | 55.80263 | 88-1      | 0.67318     |
| 88    | 1.00977 | 4C26TB     | 56.72499 | 88-1      | 1.00977     |
| 89    | 0.00000 | 4C26TB     | 56.62732 | 89-1      | 0.00000     |
| 89    | 0.33659 | 4C26TB     | 57.29564 | 89-1      | 0.33659     |
| 89    | 0.67318 | 4C26TB     | 57.96397 | 89-1      | 0.67318     |
| 89    | 1.00977 | 4C26TB     | 58.63230 | 89-1      | 1.00977     |
| 90    | 0.00000 | 4C26TB     | 58.57167 | 90-1      | 0.00000     |
| 90    | 0.33659 | 4C26TB     | 58.48672 | 90-1      | 0.33659     |
| 90    | 0.67318 | 4C26TB     | 58.40177 | 90-1      | 0.67318     |
| 90    | 1.00977 | 4C26TB     | 58.31681 | 90-1      | 1.00977     |
| 91    | 0.00000 | 4C26TB     | 58.29521 | 91-1      | 0.00000     |
| 91    | 0.33659 | 4C26TB     | 58.29864 | 91-1      | 0.33659     |
| 91    | 0.67318 | 4C26TB     | 58.30208 | 91-1      | 0.67318     |
| 91    | 1.00977 | 4C26TB     | 58.30551 | 91-1      | 1.00977     |
| 92    | 0.00000 | 4C26TB     | 58.32229 | 92-1      | 0.00000     |
| 92    | 0.33659 | 4C26TB     | 57.80494 | 92-1      | 0.33659     |
| 92    | 0.67318 | 4C26TB     | 57.28760 | 92-1      | 0.67318     |
| 92    | 1.00977 | 4C26TB     | 56.77025 | 92-1      | 1.00977     |
| 93    | 0.00000 | 4C26TB     | 56.82644 | 93-1      | 0.00000     |
| 93    | 0.33659 | 4C26TB     | 55.81767 | 93-1      | 0.33659     |
| 93    | 0.67318 | 4C26TB     | 54.80890 | 93-1      | 0.67318     |
| 93    | 1.00977 | 4C26TB     | 53.80013 | 93-1      | 1.00977     |
| 94    | 0.00000 | 4C26TB     | 53.89585 | 94-1      | 0.00000     |
| 94    | 0.33659 | 4C26TB     | 52.95815 | 94-1      | 0.33659     |
| 94    | 0.67318 | 4C26TB     | 52.02044 | 94-1      | 0.67318     |
| 94    | 1.00977 | 4C26TB     | 51.08274 | 94-1      | 1.00977     |
| 95    | 0.00000 | 4C26TB     | 51.21525 | 95-1      | 0.00000     |
| 95    | 0.33659 | 4C26TB     | 50.33601 | 95-1      | 0.33659     |
| 95    | 0.67318 | 4C26TB     | 49.45677 | 95-1      | 0.67318     |
| 95    | 1.00977 | 4C26TB     | 48.57752 | 95-1      | 1.00977     |
| 96    | 0.00000 | 4C26TB     | 48.74327 | 96-1      | 0.00000     |
| 96    | 0.33659 | 4C26TB     | 46.86693 | 96-1      | 0.33659     |
| 96    | 0.67318 | 4C26TB     | 44.99060 | 96-1      | 0.67318     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 96    | 1.00977      | 4C26TB     | 43.11427     | 96-1      | 1.00977          |
| 97    | 0.00000      | 4C26TB     | 43.31117     | 97-1      | 0.00000          |
| 97    | 0.33659      | 4C26TB     | 40.41372     | 97-1      | 0.33659          |
| 97    | 0.67318      | 4C26TB     | 37.51627     | 97-1      | 0.67318          |
| 97    | 1.00977      | 4C26TB     | 34.61882     | 97-1      | 1.00977          |
| 98    | 0.00000      | 4C26TB     | 34.84650     | 98-1      | 0.00000          |
| 98    | 0.33659      | 4C26TB     | 30.88582     | 98-1      | 0.33659          |
| 98    | 0.67318      | 4C26TB     | 26.92514     | 98-1      | 0.67318          |
| 98    | 1.00977      | 4C26TB     | 22.96446     | 98-1      | 1.00977          |
| 99    | 0.00000      | 4C26TB     | 23.21993     | 99-1      | 0.00000          |
| 99    | 0.33659      | 4C26TB     | 19.26890     | 99-1      | 0.33659          |
| 99    | 0.67318      | 4C26TB     | 15.31788     | 99-1      | 0.67318          |
| 99    | 1.00977      | 4C26TB     | 11.36685     | 99-1      | 1.00977          |
| 100   | 0.00000      | 4C26TB     | 11.64888     | 100-1     | 0.00000          |
| 100   | 0.33659      | 4C26TB     | 7.65804      | 100-1     | 0.33659          |
| 100   | 0.67318      | 4C26TB     | 3.66720      | 100-1     | 0.67318          |
| 100   | 1.00977      | 4C26TB     | -0.32364     | 100-1     | 1.00977          |
| 101   | 0.00000      | 4C26TB     | -0.07132     | 101-1     | 0.00000          |
| 101   | 0.33659      | 4C26TB     | 3.13915      | 101-1     | 0.33659          |
| 101   | 0.67318      | 4C26TB     | 6.34962      | 101-1     | 0.67318          |
| 101   | 1.00977      | 4C26TB     | 9.56009      | 101-1     | 1.00977          |
| 102   | 0.00000      | 4C26TB     | 9.38326      | 102-1     | 0.00000          |
| 102   | 0.33659      | 4C26TB     | 12.60510     | 102-1     | 0.33659          |
| 102   | 0.67318      | 4C26TB     | 15.82693     | 102-1     | 0.67318          |
| 102   | 1.00977      | 4C26TB     | 19.04877     | 102-1     | 1.00977          |
| 103   | 0.00000      | 4C26TB     | 18.83919     | 103-1     | 0.00000          |
| 103   | 0.33659      | 4C26TB     | 22.14191     | 103-1     | 0.33659          |
| 103   | 0.67318      | 4C26TB     | 25.44463     | 103-1     | 0.67318          |
| 103   | 1.00977      | 4C26TB     | 28.74735     | 103-1     | 1.00977          |
| 104   | 0.00000      | 4C26TB     | 28.53675     | 104-1     | 0.00000          |
| 104   | 0.33659      | 4C26TB     | 30.87225     | 104-1     | 0.33659          |
| 104   | 0.67318      | 4C26TB     | 33.20775     | 104-1     | 0.67318          |
| 104   | 1.00977      | 4C26TB     | 35.54325     | 104-1     | 1.00977          |
| 105   | 0.00000      | 4C26TB     | 35.34764     | 105-1     | 0.00000          |
| 105   | 0.33659      | 4C26TB     | 36.77331     | 105-1     | 0.33659          |
| 105   | 0.67318      | 4C26TB     | 38.19897     | 105-1     | 0.67318          |
| 105   | 1.00977      | 4C26TB     | 39.62463     | 105-1     | 1.00977          |
| 106   | 0.00000      | 4C26TB     | 39.44880     | 106-1     | 0.00000          |
| 106   | 0.33659      | 4C26TB     | 39.98820     | 106-1     | 0.33659          |
| 106   | 0.67318      | 4C26TB     | 40.52760     | 106-1     | 0.67318          |
| 106   | 1.00977      | 4C26TB     | 41.06700     | 106-1     | 1.00977          |
| 107   | 0.00000      | 4C26TB     | 40.91014     | 107-1     | 0.00000          |
| 107   | 0.33659      | 4C26TB     | 41.60411     | 107-1     | 0.33659          |
| 107   | 0.67318      | 4C26TB     | 42.29808     | 107-1     | 0.67318          |
| 107   | 1.00977      | 4C26TB     | 42.99205     | 107-1     | 1.00977          |
| 108   | 0.00000      | 4C26TB     | 42.85169     | 108-1     | 0.00000          |
| 108   | 0.33659      | 4C26TB     | 43.69713     | 108-1     | 0.33659          |
| 108   | 0.67318      | 4C26TB     | 44.54257     | 108-1     | 0.67318          |
| 108   | 1.00977      | 4C26TB     | 45.38801     | 108-1     | 1.00977          |
| 109   | 0.00000      | 4C26TB     | 45.26539     | 109-1     | 0.00000          |
| 109   | 0.33659      | 4C26TB     | 45.68940     | 109-1     | 0.33659          |
| 109   | 0.67318      | 4C26TB     | 46.11340     | 109-1     | 0.67318          |
| 109   | 1.00977      | 4C26TB     | 46.53740     | 109-1     | 1.00977          |
| 110   | 0.00000      | 4C26TB     | 46.43439     | 110-1     | 0.00000          |
| 110   | 0.33659      | 4C26TB     | 46.40216     | 110-1     | 0.33659          |
| 110   | 0.67318      | 4C26TB     | 46.36993     | 110-1     | 0.67318          |
| 110   | 1.00977      | 4C26TB     | 46.33771     | 110-1     | 1.00977          |
| 111   | 0.00000      | 4C26TB     | 46.25489     | 111-1     | 0.00000          |
| 111   | 0.33659      | 4C26TB     | 46.37286     | 111-1     | 0.33659          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 111   | 0.67318      | 4C26TB     | 46.49083     | 111-1     | 0.67318          |
| 111   | 1.00977      | 4C26TB     | 46.60880     | 111-1     | 1.00977          |
| 112   | 0.00000      | 4C26TB     | 46.54813     | 112-1     | 0.00000          |
| 112   | 0.33659      | 4C26TB     | 45.97832     | 112-1     | 0.33659          |
| 112   | 0.67318      | 4C26TB     | 45.40852     | 112-1     | 0.67318          |
| 112   | 1.00977      | 4C26TB     | 44.83871     | 112-1     | 1.00977          |
| 113   | 0.00000      | 4C26TB     | 44.80154     | 113-1     | 0.00000          |
| 113   | 0.33659      | 4C26TB     | 44.05080     | 113-1     | 0.33659          |
| 113   | 0.67318      | 4C26TB     | 43.30005     | 113-1     | 0.67318          |
| 113   | 1.00977      | 4C26TB     | 42.54930     | 113-1     | 1.00977          |
| 114   | 0.00000      | 4C26TB     | 42.53527     | 114-1     | 0.00000          |
| 114   | 0.33659      | 4C26TB     | 41.94461     | 114-1     | 0.33659          |
| 114   | 0.67318      | 4C26TB     | 41.35395     | 114-1     | 0.67318          |
| 114   | 1.00977      | 4C26TB     | 40.76330     | 114-1     | 1.00977          |
| 115   | 0.00000      | 4C26TB     | 40.77520     | 115-1     | 0.00000          |
| 115   | 0.33659      | 4C26TB     | 40.35108     | 115-1     | 0.33659          |
| 115   | 0.67318      | 4C26TB     | 39.92695     | 115-1     | 0.67318          |
| 115   | 1.00977      | 4C26TB     | 39.50283     | 115-1     | 1.00977          |
| 116   | 0.00000      | 4C26TB     | 39.54872     | 116-1     | 0.00000          |
| 116   | 0.33659      | 4C26TB     | 37.93401     | 116-1     | 0.33659          |
| 116   | 0.67318      | 4C26TB     | 36.31930     | 116-1     | 0.67318          |
| 116   | 1.00977      | 4C26TB     | 34.70459     | 116-1     | 1.00977          |
| 117   | 0.00000      | 4C26TB     | 34.79133     | 117-1     | 0.00000          |
| 117   | 0.33659      | 4C26TB     | 32.26785     | 117-1     | 0.33659          |
| 117   | 0.67318      | 4C26TB     | 29.74436     | 117-1     | 0.67318          |
| 117   | 1.00977      | 4C26TB     | 27.22087     | 117-1     | 1.00977          |
| 118   | 0.00000      | 4C26TB     | 27.34845     | 118-1     | 0.00000          |
| 118   | 0.33659      | 4C26TB     | 24.17390     | 118-1     | 0.33659          |
| 118   | 0.67318      | 4C26TB     | 20.99935     | 118-1     | 0.67318          |
| 118   | 1.00977      | 4C26TB     | 17.82480     | 118-1     | 1.00977          |
| 119   | 0.00000      | 4C26TB     | 17.99379     | 119-1     | 0.00000          |
| 119   | 0.33659      | 4C26TB     | 14.89608     | 119-1     | 0.33659          |
| 119   | 0.67318      | 4C26TB     | 11.79837     | 119-1     | 0.67318          |
| 119   | 1.00977      | 4C26TB     | 8.70066      | 119-1     | 1.00977          |
| 120   | 0.00000      | 4C26TB     | 8.92435      | 120-1     | 0.00000          |
| 120   | 0.33659      | 4C26TB     | 5.83743      | 120-1     | 0.33659          |
| 120   | 0.67318      | 4C26TB     | 2.75052      | 120-1     | 0.67318          |
| 120   | 1.00977      | 4C26TB     | -0.33640     | 120-1     | 1.00977          |
| 121   | 0.00000      | 4C26TB     | 0.18457      | 121-1     | 0.00000          |
| 121   | 0.33659      | 4C26TB     | 1.82301      | 121-1     | 0.33659          |
| 121   | 0.67318      | 4C26TB     | 3.46145      | 121-1     | 0.67318          |
| 121   | 1.00977      | 4C26TB     | 5.09989      | 121-1     | 1.00977          |
| 122   | 0.00000      | 4C26TB     | 5.14861      | 122-1     | 0.00000          |
| 122   | 0.33659      | 4C26TB     | 6.70887      | 122-1     | 0.33659          |
| 122   | 0.67318      | 4C26TB     | 8.26913      | 122-1     | 0.67318          |
| 122   | 1.00977      | 4C26TB     | 9.82939      | 122-1     | 1.00977          |
| 123   | 0.00000      | 4C26TB     | 9.82326      | 123-1     | 0.00000          |
| 123   | 0.33659      | 4C26TB     | 11.26235     | 123-1     | 0.33659          |
| 123   | 0.67318      | 4C26TB     | 12.70144     | 123-1     | 0.67318          |
| 123   | 1.00977      | 4C26TB     | 14.14052     | 123-1     | 1.00977          |
| 124   | 0.00000      | 4C26TB     | 14.10198     | 124-1     | 0.00000          |
| 124   | 0.33659      | 4C26TB     | 15.37973     | 124-1     | 0.33659          |
| 124   | 0.67318      | 4C26TB     | 16.65747     | 124-1     | 0.67318          |
| 124   | 1.00977      | 4C26TB     | 17.93522     | 124-1     | 1.00977          |
| 125   | 0.00000      | 4C26TB     | 17.87198     | 125-1     | 0.00000          |
| 125   | 0.33659      | 4C26TB     | 18.96190     | 125-1     | 0.33659          |
| 125   | 0.67318      | 4C26TB     | 20.05183     | 125-1     | 0.67318          |
| 125   | 1.00977      | 4C26TB     | 21.14175     | 125-1     | 1.00977          |
| 126   | 0.00000      | 4C26TB     | 21.06161     | 126-1     | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 126   | 0.33659      | 4C26TB     | 21.95238     | 126-1     | 0.33659          |
| 126   | 0.67318      | 4C26TB     | 22.84316     | 126-1     | 0.67318          |
| 126   | 1.00977      | 4C26TB     | 23.73393     | 126-1     | 1.00977          |
| 127   | 0.00000      | 4C26TB     | 23.64721     | 127-1     | 0.00000          |
| 127   | 0.33659      | 4C26TB     | 24.33840     | 127-1     | 0.33659          |
| 127   | 0.67318      | 4C26TB     | 25.02959     | 127-1     | 0.67318          |
| 127   | 1.00977      | 4C26TB     | 25.72077     | 127-1     | 1.00977          |
| 128   | 0.00000      | 4C26TB     | 25.63544     | 128-1     | 0.00000          |
| 128   | 0.33659      | 4C26TB     | 26.12801     | 128-1     | 0.33659          |
| 128   | 0.67318      | 4C26TB     | 26.62058     | 128-1     | 0.67318          |
| 128   | 1.00977      | 4C26TB     | 27.11315     | 128-1     | 1.00977          |
| 129   | 0.00000      | 4C26TB     | 27.03188     | 129-1     | 0.00000          |
| 129   | 0.33659      | 4C26TB     | 27.32541     | 129-1     | 0.33659          |
| 129   | 0.67318      | 4C26TB     | 27.61894     | 129-1     | 0.67318          |
| 129   | 1.00977      | 4C26TB     | 27.91247     | 129-1     | 1.00977          |
| 130   | 0.00000      | 4C26TB     | 27.83657     | 130-1     | 0.00000          |
| 130   | 0.33659      | 4C26TB     | 27.93141     | 130-1     | 0.33659          |
| 130   | 0.67318      | 4C26TB     | 28.02624     | 130-1     | 0.67318          |
| 130   | 1.00977      | 4C26TB     | 28.12108     | 130-1     | 1.00977          |
| 131   | 0.00000      | 4C26TB     | 28.05282     | 131-1     | 0.00000          |
| 131   | 0.33659      | 4C26TB     | 27.94968     | 131-1     | 0.33659          |
| 131   | 0.67318      | 4C26TB     | 27.84654     | 131-1     | 0.67318          |
| 131   | 1.00977      | 4C26TB     | 27.74340     | 131-1     | 1.00977          |
| 132   | 0.00000      | 4C26TB     | 27.68281     | 132-1     | 0.00000          |
| 132   | 0.33659      | 4C26TB     | 27.38069     | 132-1     | 0.33659          |
| 132   | 0.67318      | 4C26TB     | 27.07857     | 132-1     | 0.67318          |
| 132   | 1.00977      | 4C26TB     | 26.77645     | 132-1     | 1.00977          |
| 133   | 0.00000      | 4C26TB     | 26.72379     | 133-1     | 0.00000          |
| 133   | 0.33659      | 4C26TB     | 26.22355     | 133-1     | 0.33659          |
| 133   | 0.67318      | 4C26TB     | 25.72330     | 133-1     | 0.67318          |
| 133   | 1.00977      | 4C26TB     | 25.22305     | 133-1     | 1.00977          |
| 134   | 0.00000      | 4C26TB     | 25.17891     | 134-1     | 0.00000          |
| 134   | 0.33659      | 4C26TB     | 24.48091     | 134-1     | 0.33659          |
| 134   | 0.67318      | 4C26TB     | 23.78292     | 134-1     | 0.67318          |
| 134   | 1.00977      | 4C26TB     | 23.08492     | 134-1     | 1.00977          |
| 135   | 0.00000      | 4C26TB     | 23.04644     | 135-1     | 0.00000          |
| 135   | 0.33659      | 4C26TB     | 22.15023     | 135-1     | 0.33659          |
| 135   | 0.67318      | 4C26TB     | 21.25402     | 135-1     | 0.67318          |
| 135   | 1.00977      | 4C26TB     | 20.35781     | 135-1     | 1.00977          |
| 136   | 0.00000      | 4C26TB     | 20.31813     | 136-1     | 0.00000          |
| 136   | 0.33659      | 4C26TB     | 19.22767     | 136-1     | 0.33659          |
| 136   | 0.67318      | 4C26TB     | 18.13721     | 136-1     | 0.67318          |
| 136   | 1.00977      | 4C26TB     | 17.04675     | 136-1     | 1.00977          |
| 137   | 0.00000      | 4C26TB     | 17.00316     | 137-1     | 0.00000          |
| 137   | 0.33659      | 4C26TB     | 15.73812     | 137-1     | 0.33659          |
| 137   | 0.67318      | 4C26TB     | 14.47309     | 137-1     | 0.67318          |
| 137   | 1.00977      | 4C26TB     | 13.20806     | 137-1     | 1.00977          |
| 138   | 0.00000      | 4C26TB     | 13.16609     | 138-1     | 0.00000          |
| 138   | 0.33659      | 4C26TB     | 11.76230     | 138-1     | 0.33659          |
| 138   | 0.67318      | 4C26TB     | 10.35852     | 138-1     | 0.67318          |
| 138   | 1.00977      | 4C26TB     | 8.95474      | 138-1     | 1.00977          |
| 139   | 0.00000      | 4C26TB     | 8.92902      | 139-1     | 0.00000          |
| 139   | 0.33659      | 4C26TB     | 7.43329      | 139-1     | 0.33659          |
| 139   | 0.67318      | 4C26TB     | 5.93756      | 139-1     | 0.67318          |
| 139   | 1.00977      | 4C26TB     | 4.44182      | 139-1     | 1.00977          |
| 140   | 0.00000      | 4C26TB     | 4.46352      | 140-1     | 0.00000          |
| 140   | 0.33659      | 4C26TB     | 2.92469      | 140-1     | 0.33659          |
| 140   | 0.67318      | 4C26TB     | 1.38587      | 140-1     | 0.67318          |
| 140   | 1.00977      | 4C26TB     | -0.15296     | 140-1     | 1.00977          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 141   | 0.00000      | 4C26TB     | 0.54700      | 141-1     | 0.00000          |
| 141   | 0.33659      | 4C26TB     | 0.57106      | 141-1     | 0.33659          |
| 141   | 0.67318      | 4C26TB     | 0.59511      | 141-1     | 0.67318          |
| 141   | 1.00977      | 4C26TB     | 0.61917      | 141-1     | 1.00977          |
| 142   | 0.00000      | 4C26TB     | 1.09619      | 142-1     | 0.00000          |
| 142   | 0.33659      | 4C26TB     | 1.22522      | 142-1     | 0.33659          |
| 142   | 0.67318      | 4C26TB     | 1.35425      | 142-1     | 0.67318          |
| 142   | 1.00977      | 4C26TB     | 1.48327      | 142-1     | 1.00977          |
| 143   | 0.00000      | 4C26TB     | 1.91950      | 143-1     | 0.00000          |
| 143   | 0.33659      | 4C26TB     | 2.08292      | 143-1     | 0.33659          |
| 143   | 0.67318      | 4C26TB     | 2.24634      | 143-1     | 0.67318          |
| 143   | 1.00977      | 4C26TB     | 2.40977      | 143-1     | 1.00977          |
| 144   | 0.00000      | 4C26TB     | 2.80729      | 144-1     | 0.00000          |
| 144   | 0.33659      | 4C26TB     | 2.97952      | 144-1     | 0.33659          |
| 144   | 0.67318      | 4C26TB     | 3.15174      | 144-1     | 0.67318          |
| 144   | 1.00977      | 4C26TB     | 3.32397      | 144-1     | 1.00977          |
| 145   | 0.00000      | 4C26TB     | 3.67701      | 145-1     | 0.00000          |
| 145   | 0.33659      | 4C26TB     | 3.84528      | 145-1     | 0.33659          |
| 145   | 0.67318      | 4C26TB     | 4.01355      | 145-1     | 0.67318          |
| 145   | 1.00977      | 4C26TB     | 4.18182      | 145-1     | 1.00977          |
| 146   | 0.00000      | 4C26TB     | 4.48326      | 146-1     | 0.00000          |
| 146   | 0.33659      | 4C26TB     | 4.63772      | 146-1     | 0.33659          |
| 146   | 0.67318      | 4C26TB     | 4.79218      | 146-1     | 0.67318          |
| 146   | 1.00977      | 4C26TB     | 4.94664      | 146-1     | 1.00977          |
| 147   | 0.00000      | 4C26TB     | 5.19034      | 147-1     | 0.00000          |
| 147   | 0.33659      | 4C26TB     | 5.32193      | 147-1     | 0.33659          |
| 147   | 0.67318      | 4C26TB     | 5.45352      | 147-1     | 0.67318          |
| 147   | 1.00977      | 4C26TB     | 5.58511      | 147-1     | 1.00977          |
| 148   | 0.00000      | 4C26TB     | 5.76661      | 148-1     | 0.00000          |
| 148   | 0.33659      | 4C26TB     | 5.86777      | 148-1     | 0.33659          |
| 148   | 0.67318      | 4C26TB     | 5.96894      | 148-1     | 0.67318          |
| 148   | 1.00977      | 4C26TB     | 6.07011      | 148-1     | 1.00977          |
| 149   | 0.00000      | 4C26TB     | 6.18647      | 149-1     | 0.00000          |
| 149   | 0.33659      | 4C26TB     | 6.25175      | 149-1     | 0.33659          |
| 149   | 0.67318      | 4C26TB     | 6.31703      | 149-1     | 0.67318          |
| 149   | 1.00977      | 4C26TB     | 6.38232      | 149-1     | 1.00977          |
| 150   | 0.00000      | 4C26TB     | 6.43189      | 150-1     | 0.00000          |
| 150   | 0.33659      | 4C26TB     | 6.45786      | 150-1     | 0.33659          |
| 150   | 0.67318      | 4C26TB     | 6.48383      | 150-1     | 0.67318          |
| 150   | 1.00977      | 4C26TB     | 6.50980      | 150-1     | 1.00977          |
| 151   | 0.00000      | 4C26TB     | 6.49221      | 151-1     | 0.00000          |
| 151   | 0.33659      | 4C26TB     | 6.47758      | 151-1     | 0.33659          |
| 151   | 0.67318      | 4C26TB     | 6.46294      | 151-1     | 0.67318          |
| 151   | 1.00977      | 4C26TB     | 6.44830      | 151-1     | 1.00977          |
| 152   | 0.00000      | 4C26TB     | 6.36445      | 152-1     | 0.00000          |
| 152   | 0.33659      | 4C26TB     | 6.31019      | 152-1     | 0.33659          |
| 152   | 0.67318      | 4C26TB     | 6.25593      | 152-1     | 0.67318          |
| 152   | 1.00977      | 4C26TB     | 6.20167      | 152-1     | 1.00977          |
| 153   | 0.00000      | 4C26TB     | 6.05358      | 153-1     | 0.00000          |
| 153   | 0.33659      | 4C26TB     | 5.96263      | 153-1     | 0.33659          |
| 153   | 0.67318      | 4C26TB     | 5.87168      | 153-1     | 0.67318          |
| 153   | 1.00977      | 4C26TB     | 5.78073      | 153-1     | 1.00977          |
| 154   | 0.00000      | 4C26TB     | 5.57172      | 154-1     | 0.00000          |
| 154   | 0.33659      | 4C26TB     | 5.44899      | 154-1     | 0.33659          |
| 154   | 0.67318      | 4C26TB     | 5.32627      | 154-1     | 0.67318          |
| 154   | 1.00977      | 4C26TB     | 5.20354      | 154-1     | 1.00977          |
| 155   | 0.00000      | 4C26TB     | 4.93819      | 155-1     | 0.00000          |
| 155   | 0.33659      | 4C26TB     | 4.79034      | 155-1     | 0.33659          |
| 155   | 0.67318      | 4C26TB     | 4.64250      | 155-1     | 0.67318          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 155   | 1.00977 | 4C26TB     | 4.49465  | 155-1     | 1.00977     |
| 156   | 0.00000 | 4C26TB     | 4.17866  | 156-1     | 0.00000     |
| 156   | 0.33659 | 4C26TB     | 4.01307  | 156-1     | 0.33659     |
| 156   | 0.67318 | 4C26TB     | 3.84748  | 156-1     | 0.67318     |
| 156   | 1.00977 | 4C26TB     | 3.68189  | 156-1     | 1.00977     |
| 157   | 0.00000 | 4C26TB     | 3.32225  | 157-1     | 0.00000     |
| 157   | 0.33659 | 4C26TB     | 3.14606  | 157-1     | 0.33659     |
| 157   | 0.67318 | 4C26TB     | 2.96986  | 157-1     | 0.67318     |
| 157   | 1.00977 | 4C26TB     | 2.79367  | 157-1     | 1.00977     |
| 158   | 0.00000 | 4C26TB     | 2.39960  | 158-1     | 0.00000     |
| 158   | 0.33659 | 4C26TB     | 2.22215  | 158-1     | 0.33659     |
| 158   | 0.67318 | 4C26TB     | 2.04470  | 158-1     | 0.67318     |
| 158   | 1.00977 | 4C26TB     | 1.86726  | 158-1     | 1.00977     |
| 159   | 0.00000 | 4C26TB     | 1.45227  | 159-1     | 0.00000     |
| 159   | 0.33659 | 4C26TB     | 1.29531  | 159-1     | 0.33659     |
| 159   | 0.67318 | 4C26TB     | 1.13835  | 159-1     | 0.67318     |
| 159   | 1.00977 | 4C26TB     | 0.98139  | 159-1     | 1.00977     |
| 160   | 0.00000 | 4C26TB     | 0.56928  | 160-1     | 0.00000     |
| 160   | 0.33659 | 4C26TB     | 0.49827  | 160-1     | 0.33659     |
| 160   | 0.67318 | 4C26TB     | 0.42726  | 160-1     | 0.67318     |
| 160   | 1.00977 | 4C26TB     | 0.35625  | 160-1     | 1.00977     |
| 161   | 0.00000 | 4C26TB     | 0.78960  | 161-1     | 0.00000     |
| 161   | 0.46695 | 4C26TB     | 0.38624  | 161-1     | 0.46695     |
| 161   | 0.93391 | 4C26TB     | -0.01711 | 161-1     | 0.93391     |
| 161   | 1.40086 | 4C26TB     | -0.42046 | 161-1     | 1.40086     |
| 161   | 1.86781 | 4C26TB     | -0.82381 | 161-1     | 1.86781     |
| 162   | 0.00000 | 4C26TB     | 0.82510  | 162-1     | 0.00000     |
| 162   | 0.46695 | 4C26TB     | 0.42078  | 162-1     | 0.46695     |
| 162   | 0.93391 | 4C26TB     | 0.01646  | 162-1     | 0.93391     |
| 162   | 1.40086 | 4C26TB     | -0.38786 | 162-1     | 1.40086     |
| 162   | 1.86781 | 4C26TB     | -0.79218 | 162-1     | 1.86781     |
| 163   | 0.00000 | 4C26TB     | 0.59239  | 163-1     | 0.00000     |
| 163   | 0.46695 | 4C26TB     | 0.33835  | 163-1     | 0.46695     |
| 163   | 0.93391 | 4C26TB     | 0.08431  | 163-1     | 0.93391     |
| 163   | 1.40086 | 4C26TB     | -0.16973 | 163-1     | 1.40086     |
| 163   | 1.86781 | 4C26TB     | -0.42378 | 163-1     | 1.86781     |
| 164   | 0.00000 | 4C26TB     | 0.10686  | 164-1     | 0.00000     |
| 164   | 0.46695 | 4C26TB     | 0.09120  | 164-1     | 0.46695     |
| 164   | 0.93391 | 4C26TB     | 0.07553  | 164-1     | 0.93391     |
| 164   | 1.40086 | 4C26TB     | 0.05987  | 164-1     | 1.40086     |
| 164   | 1.86781 | 4C26TB     | 0.04421  | 164-1     | 1.86781     |
| 165   | 0.00000 | 4C26TB     | -0.36500 | 165-1     | 0.00000     |
| 165   | 0.46695 | 4C26TB     | -0.13937 | 165-1     | 0.46695     |
| 165   | 0.93391 | 4C26TB     | 0.08627  | 165-1     | 0.93391     |
| 165   | 1.40086 | 4C26TB     | 0.31190  | 165-1     | 1.40086     |
| 165   | 1.86781 | 4C26TB     | 0.53753  | 165-1     | 1.86781     |
| 166   | 0.00000 | 4C26TB     | -0.74718 | 166-1     | 0.00000     |
| 166   | 0.46695 | 4C26TB     | -0.36385 | 166-1     | 0.46695     |
| 166   | 0.93391 | 4C26TB     | 0.01948  | 166-1     | 0.93391     |
| 166   | 1.40086 | 4C26TB     | 0.40281  | 166-1     | 1.40086     |
| 166   | 1.86781 | 4C26TB     | 0.78614  | 166-1     | 1.86781     |
| 167   | 0.00000 | 4C26TB     | -0.86349 | 167-1     | 0.00000     |
| 167   | 0.46695 | 4C26TB     | -0.42198 | 167-1     | 0.46695     |
| 167   | 0.93391 | 4C26TB     | 0.01954  | 167-1     | 0.93391     |
| 167   | 1.40086 | 4C26TB     | 0.46106  | 167-1     | 1.40086     |
| 167   | 1.86781 | 4C26TB     | 0.90258  | 167-1     | 1.86781     |
| 168   | 0.00000 | 4C26TB     | 0.19695  | 168-1     | 0.00000     |
| 168   | 0.46695 | 4C26TB     | 0.07772  | 168-1     | 0.46695     |
| 168   | 0.93391 | 4C26TB     | -0.04152 | 168-1     | 0.93391     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 168   | 1.40086 | 4C26TB     | -0.16076 | 168-1     | 1.40086     |
| 168   | 1.86781 | 4C26TB     | -0.27999 | 168-1     | 1.86781     |
| 169   | 0.00000 | 4C26TB     | 0.17413  | 169-1     | 0.00000     |
| 169   | 0.46695 | 4C26TB     | 0.11468  | 169-1     | 0.46695     |
| 169   | 0.93391 | 4C26TB     | 0.05523  | 169-1     | 0.93391     |
| 169   | 1.40086 | 4C26TB     | -0.00422 | 169-1     | 1.40086     |
| 169   | 1.86781 | 4C26TB     | -0.06367 | 169-1     | 1.86781     |
| 170   | 0.00000 | 4C26TB     | 0.34744  | 170-1     | 0.00000     |
| 170   | 0.46695 | 4C26TB     | 0.27301  | 170-1     | 0.46695     |
| 170   | 0.93391 | 4C26TB     | 0.19859  | 170-1     | 0.93391     |
| 170   | 1.40086 | 4C26TB     | 0.12416  | 170-1     | 1.40086     |
| 170   | 1.86781 | 4C26TB     | 0.04974  | 170-1     | 1.86781     |
| 171   | 0.00000 | 4C26TB     | 0.23772  | 171-1     | 0.00000     |
| 171   | 0.46695 | 4C26TB     | 0.21853  | 171-1     | 0.46695     |
| 171   | 0.93391 | 4C26TB     | 0.19934  | 171-1     | 0.93391     |
| 171   | 1.40086 | 4C26TB     | 0.18015  | 171-1     | 1.40086     |
| 171   | 1.86781 | 4C26TB     | 0.16096  | 171-1     | 1.86781     |
| 172   | 0.00000 | 4C26TB     | 0.09470  | 172-1     | 0.00000     |
| 172   | 0.46695 | 4C26TB     | 0.14764  | 172-1     | 0.46695     |
| 172   | 0.93391 | 4C26TB     | 0.20057  | 172-1     | 0.93391     |
| 172   | 1.40086 | 4C26TB     | 0.25351  | 172-1     | 1.40086     |
| 172   | 1.86781 | 4C26TB     | 0.30645  | 172-1     | 1.86781     |
| 173   | 0.00000 | 4C26TB     | -0.01073 | 173-1     | 0.00000     |
| 173   | 0.46695 | 4C26TB     | 0.02644  | 173-1     | 0.46695     |
| 173   | 0.93391 | 4C26TB     | 0.06361  | 173-1     | 0.93391     |
| 173   | 1.40086 | 4C26TB     | 0.10078  | 173-1     | 1.40086     |
| 173   | 1.86781 | 4C26TB     | 0.13794  | 173-1     | 1.86781     |
| 174   | 0.00000 | 4C26TB     | -0.29346 | 174-1     | 0.00000     |
| 174   | 0.46695 | 4C26TB     | -0.14783 | 174-1     | 0.46695     |
| 174   | 0.93391 | 4C26TB     | -0.00220 | 174-1     | 0.93391     |
| 174   | 1.40086 | 4C26TB     | 0.14343  | 174-1     | 1.40086     |
| 174   | 1.86781 | 4C26TB     | 0.28906  | 174-1     | 1.86781     |
| 175   | 0.00000 | 4C26TB     | -0.01169 | 175-1     | 0.00000     |
| 175   | 0.46695 | 4C26TB     | -0.04012 | 175-1     | 0.46695     |
| 175   | 0.93391 | 4C26TB     | -0.06854 | 175-1     | 0.93391     |
| 175   | 1.40086 | 4C26TB     | -0.09696 | 175-1     | 1.40086     |
| 175   | 1.86781 | 4C26TB     | -0.12539 | 175-1     | 1.86781     |
| 176   | 0.00000 | 4C26TB     | -0.09374 | 176-1     | 0.00000     |
| 176   | 0.46695 | 4C26TB     | 0.00540  | 176-1     | 0.46695     |
| 176   | 0.93391 | 4C26TB     | 0.10453  | 176-1     | 0.93391     |
| 176   | 1.40086 | 4C26TB     | 0.20367  | 176-1     | 1.40086     |
| 176   | 1.86781 | 4C26TB     | 0.30281  | 176-1     | 1.86781     |
| 177   | 0.00000 | 4C26TB     | 0.35948  | 177-1     | 0.00000     |
| 177   | 0.46695 | 4C26TB     | 0.35201  | 177-1     | 0.46695     |
| 177   | 0.93391 | 4C26TB     | 0.34455  | 177-1     | 0.93391     |
| 177   | 1.40086 | 4C26TB     | 0.33708  | 177-1     | 1.40086     |
| 177   | 1.86781 | 4C26TB     | 0.32962  | 177-1     | 1.86781     |
| 178   | 0.00000 | 4C26TB     | 0.39823  | 178-1     | 0.00000     |
| 178   | 0.46695 | 4C26TB     | 0.37738  | 178-1     | 0.46695     |
| 178   | 0.93391 | 4C26TB     | 0.35653  | 178-1     | 0.93391     |
| 178   | 1.40086 | 4C26TB     | 0.33567  | 178-1     | 1.40086     |
| 178   | 1.86781 | 4C26TB     | 0.31482  | 178-1     | 1.86781     |
| 179   | 0.00000 | 4C26TB     | 0.36280  | 179-1     | 0.00000     |
| 179   | 0.46695 | 4C26TB     | 0.35463  | 179-1     | 0.46695     |
| 179   | 0.93391 | 4C26TB     | 0.34645  | 179-1     | 0.93391     |
| 179   | 1.40086 | 4C26TB     | 0.33827  | 179-1     | 1.40086     |
| 179   | 1.86781 | 4C26TB     | 0.33010  | 179-1     | 1.86781     |
| 180   | 0.00000 | 4C26TB     | 0.35856  | 180-1     | 0.00000     |
| 180   | 0.46695 | 4C26TB     | 0.23818  | 180-1     | 0.46695     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 180   | 0.93391      | 4C26TB     | 0.11779      | 180-1     | 0.93391          |
| 180   | 1.40086      | 4C26TB     | -0.00259     | 180-1     | 1.40086          |
| 180   | 1.86781      | 4C26TB     | -0.12298     | 180-1     | 1.86781          |
| 181   | 0.00000      | 4C26TB     | -0.12252     | 181-1     | 0.00000          |
| 181   | 0.46695      | 4C26TB     | -0.07480     | 181-1     | 0.46695          |
| 181   | 0.93391      | 4C26TB     | -0.02708     | 181-1     | 0.93391          |
| 181   | 1.40086      | 4C26TB     | 0.02064      | 181-1     | 1.40086          |
| 181   | 1.86781      | 4C26TB     | 0.06836      | 181-1     | 1.86781          |
| 182   | 0.00000      | 4C26TB     | -0.09460     | 182-1     | 0.00000          |
| 182   | 0.46695      | 4C26TB     | -0.09286     | 182-1     | 0.46695          |
| 182   | 0.93391      | 4C26TB     | -0.09113     | 182-1     | 0.93391          |
| 182   | 1.40086      | 4C26TB     | -0.08939     | 182-1     | 1.40086          |
| 182   | 1.86781      | 4C26TB     | -0.08765     | 182-1     | 1.86781          |
| 183   | 0.00000      | 4C26TB     | -0.23311     | 183-1     | 0.00000          |
| 183   | 0.46695      | 4C26TB     | -0.03889     | 183-1     | 0.46695          |
| 183   | 0.93391      | 4C26TB     | 0.15534      | 183-1     | 0.93391          |
| 183   | 1.40086      | 4C26TB     | 0.34957      | 183-1     | 1.40086          |
| 183   | 1.86781      | 4C26TB     | 0.54379      | 183-1     | 1.86781          |
| 184   | 0.00000      | 4C26TB     | 0.44425      | 184-1     | 0.00000          |
| 184   | 0.46695      | 4C26TB     | 0.46770      | 184-1     | 0.46695          |
| 184   | 0.93391      | 4C26TB     | 0.49116      | 184-1     | 0.93391          |
| 184   | 1.40086      | 4C26TB     | 0.51461      | 184-1     | 1.40086          |
| 184   | 1.86781      | 4C26TB     | 0.53806      | 184-1     | 1.86781          |
| 185   | 0.00000      | 4C26TB     | 0.55459      | 185-1     | 0.00000          |
| 185   | 0.46695      | 4C26TB     | 0.53547      | 185-1     | 0.46695          |
| 185   | 0.93391      | 4C26TB     | 0.51635      | 185-1     | 0.93391          |
| 185   | 1.40086      | 4C26TB     | 0.49723      | 185-1     | 1.40086          |
| 185   | 1.86781      | 4C26TB     | 0.47810      | 185-1     | 1.86781          |
| 186   | 0.00000      | 4C26TB     | 0.56523      | 186-1     | 0.00000          |
| 186   | 0.46695      | 4C26TB     | 0.52938      | 186-1     | 0.46695          |
| 186   | 0.93391      | 4C26TB     | 0.49353      | 186-1     | 0.93391          |
| 186   | 1.40086      | 4C26TB     | 0.45768      | 186-1     | 1.40086          |
| 186   | 1.86781      | 4C26TB     | 0.42183      | 186-1     | 1.86781          |
| 187   | 0.00000      | 4C26TB     | 0.59390      | 187-1     | 0.00000          |
| 187   | 0.46695      | 4C26TB     | 0.38228      | 187-1     | 0.46695          |
| 187   | 0.93391      | 4C26TB     | 0.17066      | 187-1     | 0.93391          |
| 187   | 1.40086      | 4C26TB     | -0.04096     | 187-1     | 1.40086          |
| 187   | 1.86781      | 4C26TB     | -0.25258     | 187-1     | 1.86781          |
| 188   | 0.00000      | 4C26TB     | -0.07283     | 188-1     | 0.00000          |
| 188   | 0.46695      | 4C26TB     | -0.06062     | 188-1     | 0.46695          |
| 188   | 0.93391      | 4C26TB     | -0.04841     | 188-1     | 0.93391          |
| 188   | 1.40086      | 4C26TB     | -0.03621     | 188-1     | 1.40086          |
| 188   | 1.86781      | 4C26TB     | -0.02400     | 188-1     | 1.86781          |
| 189   | 0.00000      | 4C26TB     | -0.13529     | 189-1     | 0.00000          |
| 189   | 0.46695      | 4C26TB     | -0.12057     | 189-1     | 0.46695          |
| 189   | 0.93391      | 4C26TB     | -0.10586     | 189-1     | 0.93391          |
| 189   | 1.40086      | 4C26TB     | -0.09114     | 189-1     | 1.40086          |
| 189   | 1.86781      | 4C26TB     | -0.07643     | 189-1     | 1.86781          |
| 190   | 0.00000      | 4C26TB     | -0.30950     | 190-1     | 0.00000          |
| 190   | 0.46695      | 4C26TB     | -0.05260     | 190-1     | 0.46695          |
| 190   | 0.93391      | 4C26TB     | 0.20430      | 190-1     | 0.93391          |
| 190   | 1.40086      | 4C26TB     | 0.46120      | 190-1     | 1.40086          |
| 190   | 1.86781      | 4C26TB     | 0.71810      | 190-1     | 1.86781          |
| 191   | 0.00000      | 4C26TB     | 0.54024      | 191-1     | 0.00000          |
| 191   | 0.46695      | 4C26TB     | 0.58232      | 191-1     | 0.46695          |
| 191   | 0.93391      | 4C26TB     | 0.62441      | 191-1     | 0.93391          |
| 191   | 1.40086      | 4C26TB     | 0.66649      | 191-1     | 1.40086          |
| 191   | 1.86781      | 4C26TB     | 0.70857      | 191-1     | 1.86781          |
| 192   | 0.00000      | 4C26TB     | 0.69149      | 192-1     | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 192   | 0.46695      | 4C26TB     | 0.67928      | 192-1     | 0.46695          |
| 192   | 0.93391      | 4C26TB     | 0.66707      | 192-1     | 0.93391          |
| 192   | 1.40086      | 4C26TB     | 0.65485      | 192-1     | 1.40086          |
| 192   | 1.86781      | 4C26TB     | 0.64264      | 192-1     | 1.86781          |
| 193   | 0.00000      | 4C26TB     | 0.74270      | 193-1     | 0.00000          |
| 193   | 0.46695      | 4C26TB     | 0.68533      | 193-1     | 0.46695          |
| 193   | 0.93391      | 4C26TB     | 0.62796      | 193-1     | 0.93391          |
| 193   | 1.40086      | 4C26TB     | 0.57059      | 193-1     | 1.40086          |
| 193   | 1.86781      | 4C26TB     | 0.51321      | 193-1     | 1.86781          |
| 194   | 0.00000      | 4C26TB     | 0.75036      | 194-1     | 0.00000          |
| 194   | 0.46695      | 4C26TB     | 0.48431      | 194-1     | 0.46695          |
| 194   | 0.93391      | 4C26TB     | 0.21826      | 194-1     | 0.93391          |
| 194   | 1.40086      | 4C26TB     | -0.04779     | 194-1     | 1.40086          |
| 194   | 1.86781      | 4C26TB     | -0.31384     | 194-1     | 1.86781          |
| 195   | 0.00000      | 4C26TB     | -0.05210     | 195-1     | 0.00000          |
| 195   | 0.46695      | 4C26TB     | -0.05759     | 195-1     | 0.46695          |
| 195   | 0.93391      | 4C26TB     | -0.06308     | 195-1     | 0.93391          |
| 195   | 1.40086      | 4C26TB     | -0.06856     | 195-1     | 1.40086          |
| 195   | 1.86781      | 4C26TB     | -0.07405     | 195-1     | 1.86781          |
| 196   | 0.00000      | 4C26TB     | -0.16080     | 196-1     | 0.00000          |
| 196   | 0.46695      | 4C26TB     | -0.13618     | 196-1     | 0.46695          |
| 196   | 0.93391      | 4C26TB     | -0.11157     | 196-1     | 0.93391          |
| 196   | 1.40086      | 4C26TB     | -0.08696     | 196-1     | 1.40086          |
| 196   | 1.86781      | 4C26TB     | -0.06234     | 196-1     | 1.86781          |
| 197   | 0.00000      | 4C26TB     | -0.33938     | 197-1     | 0.00000          |
| 197   | 0.46695      | 4C26TB     | -0.04528     | 197-1     | 0.46695          |
| 197   | 0.93391      | 4C26TB     | 0.24882      | 197-1     | 0.93391          |
| 197   | 1.40086      | 4C26TB     | 0.54293      | 197-1     | 1.40086          |
| 197   | 1.86781      | 4C26TB     | 0.83703      | 197-1     | 1.86781          |
| 198   | 0.00000      | 4C26TB     | 0.61951      | 198-1     | 0.00000          |
| 198   | 0.46695      | 4C26TB     | 0.67883      | 198-1     | 0.46695          |
| 198   | 0.93391      | 4C26TB     | 0.73814      | 198-1     | 0.93391          |
| 198   | 1.40086      | 4C26TB     | 0.79746      | 198-1     | 1.40086          |
| 198   | 1.86781      | 4C26TB     | 0.85677      | 198-1     | 1.86781          |
| 199   | 0.00000      | 4C26TB     | 0.81277      | 199-1     | 0.00000          |
| 199   | 0.46695      | 4C26TB     | 0.80780      | 199-1     | 0.46695          |
| 199   | 0.93391      | 4C26TB     | 0.80283      | 199-1     | 0.93391          |
| 199   | 1.40086      | 4C26TB     | 0.79787      | 199-1     | 1.40086          |
| 199   | 1.86781      | 4C26TB     | 0.79290      | 199-1     | 1.86781          |
| 200   | 0.00000      | 4C26TB     | 0.89758      | 200-1     | 0.00000          |
| 200   | 0.46695      | 4C26TB     | 0.82017      | 200-1     | 0.46695          |
| 200   | 0.93391      | 4C26TB     | 0.74276      | 200-1     | 0.93391          |
| 200   | 1.40086      | 4C26TB     | 0.66536      | 200-1     | 1.40086          |
| 200   | 1.86781      | 4C26TB     | 0.58795      | 200-1     | 1.86781          |
| 201   | 0.00000      | 4C26TB     | 0.85075      | 201-1     | 0.00000          |
| 201   | 0.46695      | 4C26TB     | 0.55531      | 201-1     | 0.46695          |
| 201   | 0.93391      | 4C26TB     | 0.25987      | 201-1     | 0.93391          |
| 201   | 1.40086      | 4C26TB     | -0.03557     | 201-1     | 1.40086          |
| 201   | 1.86781      | 4C26TB     | -0.33101     | 201-1     | 1.86781          |
| 202   | 0.00000      | 4C26TB     | -0.03249     | 202-1     | 0.00000          |
| 202   | 0.46695      | 4C26TB     | -0.05165     | 202-1     | 0.46695          |
| 202   | 0.93391      | 4C26TB     | -0.07081     | 202-1     | 0.93391          |
| 202   | 1.40086      | 4C26TB     | -0.08997     | 202-1     | 1.40086          |
| 202   | 1.86781      | 4C26TB     | -0.10913     | 202-1     | 1.86781          |
| 203   | 0.00000      | 4C26TB     | -0.17926     | 203-1     | 0.00000          |
| 203   | 0.46695      | 4C26TB     | -0.14441     | 203-1     | 0.46695          |
| 203   | 0.93391      | 4C26TB     | -0.10956     | 203-1     | 0.93391          |
| 203   | 1.40086      | 4C26TB     | -0.07471     | 203-1     | 1.40086          |
| 203   | 1.86781      | 4C26TB     | -0.03986     | 203-1     | 1.86781          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 204   | 0.00000 | 4C26TB     | -0.33303 | 204-1     | 0.00000     |
| 204   | 0.46695 | 4C26TB     | -0.02320 | 204-1     | 0.46695     |
| 204   | 0.93391 | 4C26TB     | 0.28663  | 204-1     | 0.93391     |
| 204   | 1.40086 | 4C26TB     | 0.59646  | 204-1     | 1.40086     |
| 204   | 1.86781 | 4C26TB     | 0.90629  | 204-1     | 1.86781     |
| 205   | 0.00000 | 4C26TB     | 0.67325  | 205-1     | 0.00000     |
| 205   | 0.46695 | 4C26TB     | 0.75205  | 205-1     | 0.46695     |
| 205   | 0.93391 | 4C26TB     | 0.83085  | 205-1     | 0.93391     |
| 205   | 1.40086 | 4C26TB     | 0.90964  | 205-1     | 1.40086     |
| 205   | 1.86781 | 4C26TB     | 0.98844  | 205-1     | 1.86781     |
| 206   | 0.00000 | 4C26TB     | 0.92391  | 206-1     | 0.00000     |
| 206   | 0.46695 | 4C26TB     | 0.92160  | 206-1     | 0.46695     |
| 206   | 0.93391 | 4C26TB     | 0.91929  | 206-1     | 0.93391     |
| 206   | 1.40086 | 4C26TB     | 0.91697  | 206-1     | 1.40086     |
| 206   | 1.86781 | 4C26TB     | 0.91466  | 206-1     | 1.86781     |
| 207   | 0.00000 | 4C26TB     | 1.02396  | 207-1     | 0.00000     |
| 207   | 0.46695 | 4C26TB     | 0.92978  | 207-1     | 0.46695     |
| 207   | 0.93391 | 4C26TB     | 0.83561  | 207-1     | 0.93391     |
| 207   | 1.40086 | 4C26TB     | 0.74143  | 207-1     | 1.40086     |
| 207   | 1.86781 | 4C26TB     | 0.64726  | 207-1     | 1.86781     |
| 208   | 0.00000 | 4C26TB     | 0.91264  | 208-1     | 0.00000     |
| 208   | 0.46695 | 4C26TB     | 0.60402  | 208-1     | 0.46695     |
| 208   | 0.93391 | 4C26TB     | 0.29541  | 208-1     | 0.93391     |
| 208   | 1.40086 | 4C26TB     | -0.01321 | 208-1     | 1.40086     |
| 208   | 1.86781 | 4C26TB     | -0.32183 | 208-1     | 1.86781     |
| 209   | 0.00000 | 4C26TB     | -0.01017 | 209-1     | 0.00000     |
| 209   | 0.46695 | 4C26TB     | -0.04190 | 209-1     | 0.46695     |
| 209   | 0.93391 | 4C26TB     | -0.07363 | 209-1     | 0.93391     |
| 209   | 1.40086 | 4C26TB     | -0.10536 | 209-1     | 1.40086     |
| 209   | 1.86781 | 4C26TB     | -0.13709 | 209-1     | 1.86781     |
| 210   | 0.00000 | 4C26TB     | -0.19157 | 210-1     | 0.00000     |
| 210   | 0.46695 | 4C26TB     | -0.14749 | 210-1     | 0.46695     |
| 210   | 0.93391 | 4C26TB     | -0.10341 | 210-1     | 0.93391     |
| 210   | 1.40086 | 4C26TB     | -0.05933 | 210-1     | 1.40086     |
| 210   | 1.86781 | 4C26TB     | -0.01525 | 210-1     | 1.86781     |
| 211   | 0.00000 | 4C26TB     | -0.32009 | 211-1     | 0.00000     |
| 211   | 0.46695 | 4C26TB     | -0.00168 | 211-1     | 0.46695     |
| 211   | 0.93391 | 4C26TB     | 0.31674  | 211-1     | 0.93391     |
| 211   | 1.40086 | 4C26TB     | 0.63516  | 211-1     | 1.40086     |
| 211   | 1.86781 | 4C26TB     | 0.95358  | 211-1     | 1.86781     |
| 212   | 0.00000 | 4C26TB     | 0.71061  | 212-1     | 0.00000     |
| 212   | 0.46695 | 4C26TB     | 0.80694  | 212-1     | 0.46695     |
| 212   | 0.93391 | 4C26TB     | 0.90326  | 212-1     | 0.93391     |
| 212   | 1.40086 | 4C26TB     | 0.99958  | 212-1     | 1.40086     |
| 212   | 1.86781 | 4C26TB     | 1.09591  | 212-1     | 1.86781     |
| 213   | 0.00000 | 4C26TB     | 1.01742  | 213-1     | 0.00000     |
| 213   | 0.46695 | 4C26TB     | 1.01515  | 213-1     | 0.46695     |
| 213   | 0.93391 | 4C26TB     | 1.01289  | 213-1     | 0.93391     |
| 213   | 1.40086 | 4C26TB     | 1.01062  | 213-1     | 1.40086     |
| 213   | 1.86781 | 4C26TB     | 1.00835  | 213-1     | 1.86781     |
| 214   | 0.00000 | 4C26TB     | 1.12250  | 214-1     | 0.00000     |
| 214   | 0.46695 | 4C26TB     | 1.01488  | 214-1     | 0.46695     |
| 214   | 0.93391 | 4C26TB     | 0.90727  | 214-1     | 0.93391     |
| 214   | 1.40086 | 4C26TB     | 0.79966  | 214-1     | 1.40086     |
| 214   | 1.86781 | 4C26TB     | 0.69205  | 214-1     | 1.86781     |
| 215   | 0.00000 | 4C26TB     | 0.95951  | 215-1     | 0.00000     |
| 215   | 0.46695 | 4C26TB     | 0.64177  | 215-1     | 0.46695     |
| 215   | 0.93391 | 4C26TB     | 0.32402  | 215-1     | 0.93391     |
| 215   | 1.40086 | 4C26TB     | 0.00628  | 215-1     | 1.40086     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station | OutputCase | M3       | FrameElem | ElemStation |
|-------|---------|------------|----------|-----------|-------------|
|       | m       |            | Tonf-m   |           | m           |
| 215   | 1.86781 | 4C26TB     | -0.31146 | 215-1     | 1.86781     |
| 216   | 0.00000 | 4C26TB     | 0.00968  | 216-1     | 0.00000     |
| 216   | 0.46695 | 4C26TB     | -0.03252 | 216-1     | 0.46695     |
| 216   | 0.93391 | 4C26TB     | -0.07472 | 216-1     | 0.93391     |
| 216   | 1.40086 | 4C26TB     | -0.11693 | 216-1     | 1.40086     |
| 216   | 1.86781 | 4C26TB     | -0.15913 | 216-1     | 1.86781     |
| 217   | 0.00000 | 4C26TB     | -0.19790 | 217-1     | 0.00000     |
| 217   | 0.46695 | 4C26TB     | -0.14699 | 217-1     | 0.46695     |
| 217   | 0.93391 | 4C26TB     | -0.09609 | 217-1     | 0.93391     |
| 217   | 1.40086 | 4C26TB     | -0.04518 | 217-1     | 1.40086     |
| 217   | 1.86781 | 4C26TB     | 0.00572  | 217-1     | 1.86781     |
| 218   | 0.00000 | 4C26TB     | -0.31244 | 218-1     | 0.00000     |
| 218   | 0.46695 | 4C26TB     | 0.01333  | 218-1     | 0.46695     |
| 218   | 0.93391 | 4C26TB     | 0.33911  | 218-1     | 0.93391     |
| 218   | 1.40086 | 4C26TB     | 0.66488  | 218-1     | 1.40086     |
| 218   | 1.86781 | 4C26TB     | 0.99065  | 218-1     | 1.86781     |
| 219   | 0.00000 | 4C26TB     | 0.73596  | 219-1     | 0.00000     |
| 219   | 0.46695 | 4C26TB     | 0.84580  | 219-1     | 0.46695     |
| 219   | 0.93391 | 4C26TB     | 0.95564  | 219-1     | 0.93391     |
| 219   | 1.40086 | 4C26TB     | 1.06548  | 219-1     | 1.40086     |
| 219   | 1.86781 | 4C26TB     | 1.17532  | 219-1     | 1.86781     |
| 220   | 0.00000 | 4C26TB     | 1.08563  | 220-1     | 0.00000     |
| 220   | 0.46695 | 4C26TB     | 1.08341  | 220-1     | 0.46695     |
| 220   | 0.93391 | 4C26TB     | 1.08118  | 220-1     | 0.93391     |
| 220   | 1.40086 | 4C26TB     | 1.07896  | 220-1     | 1.40086     |
| 220   | 1.86781 | 4C26TB     | 1.07674  | 220-1     | 1.86781     |
| 221   | 0.00000 | 4C26TB     | 1.19197  | 221-1     | 0.00000     |
| 221   | 0.46695 | 4C26TB     | 1.07521  | 221-1     | 0.46695     |
| 221   | 0.93391 | 4C26TB     | 0.95846  | 221-1     | 0.93391     |
| 221   | 1.40086 | 4C26TB     | 0.84170  | 221-1     | 1.40086     |
| 221   | 1.86781 | 4C26TB     | 0.72494  | 221-1     | 1.86781     |
| 222   | 0.00000 | 4C26TB     | 0.99633  | 222-1     | 0.00000     |
| 222   | 0.46695 | 4C26TB     | 0.67041  | 222-1     | 0.46695     |
| 222   | 0.93391 | 4C26TB     | 0.34450  | 222-1     | 0.93391     |
| 222   | 1.40086 | 4C26TB     | 0.01858  | 222-1     | 1.40086     |
| 222   | 1.86781 | 4C26TB     | -0.30734 | 222-1     | 1.86781     |
| 223   | 0.00000 | 4C26TB     | 0.02335  | 223-1     | 0.00000     |
| 223   | 0.46695 | 4C26TB     | -0.02644 | 223-1     | 0.46695     |
| 223   | 0.93391 | 4C26TB     | -0.07622 | 223-1     | 0.93391     |
| 223   | 1.40086 | 4C26TB     | -0.12601 | 223-1     | 1.40086     |
| 223   | 1.86781 | 4C26TB     | -0.17579 | 223-1     | 1.86781     |
| 224   | 0.00000 | 4C26TB     | -0.19904 | 224-1     | 0.00000     |
| 224   | 0.46695 | 4C26TB     | -0.14407 | 224-1     | 0.46695     |
| 224   | 0.93391 | 4C26TB     | -0.08910 | 224-1     | 0.93391     |
| 224   | 1.40086 | 4C26TB     | -0.03414 | 224-1     | 1.40086     |
| 224   | 1.86781 | 4C26TB     | 0.02083  | 224-1     | 1.86781     |
| 225   | 0.00000 | 4C26TB     | -0.30847 | 225-1     | 0.00000     |
| 225   | 0.46695 | 4C26TB     | 0.02254  | 225-1     | 0.46695     |
| 225   | 0.93391 | 4C26TB     | 0.35355  | 225-1     | 0.93391     |
| 225   | 1.40086 | 4C26TB     | 0.68456  | 225-1     | 1.40086     |
| 225   | 1.86781 | 4C26TB     | 1.01558  | 225-1     | 1.86781     |
| 226   | 0.00000 | 4C26TB     | 0.75185  | 226-1     | 0.00000     |
| 226   | 0.46695 | 4C26TB     | 0.86964  | 226-1     | 0.46695     |
| 226   | 0.93391 | 4C26TB     | 0.98743  | 226-1     | 0.93391     |
| 226   | 1.40086 | 4C26TB     | 1.10522  | 226-1     | 1.40086     |
| 226   | 1.86781 | 4C26TB     | 1.22300  | 226-1     | 1.86781     |
| 227   | 0.00000 | 4C26TB     | 1.12327  | 227-1     | 0.00000     |
| 227   | 0.46695 | 4C26TB     | 1.12302  | 227-1     | 0.46695     |
| 227   | 0.93391 | 4C26TB     | 1.12277  | 227-1     | 0.93391     |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 227   | 1.40086      | 4C26TB     | 1.12252      | 227-1     | 1.40086          |
| 227   | 1.86781      | 4C26TB     | 1.12227      | 227-1     | 1.86781          |
| 228   | 0.00000      | 4C26TB     | 1.23416      | 228-1     | 0.00000          |
| 228   | 0.46695      | 4C26TB     | 1.11156      | 228-1     | 0.46695          |
| 228   | 0.93391      | 4C26TB     | 0.98896      | 228-1     | 0.93391          |
| 228   | 1.40086      | 4C26TB     | 0.86636      | 228-1     | 1.40086          |
| 228   | 1.86781      | 4C26TB     | 0.74375      | 228-1     | 1.86781          |
| 229   | 0.00000      | 4C26TB     | 1.01656      | 229-1     | 0.00000          |
| 229   | 0.46695      | 4C26TB     | 0.68637      | 229-1     | 0.46695          |
| 229   | 0.93391      | 4C26TB     | 0.35618      | 229-1     | 0.93391          |
| 229   | 1.40086      | 4C26TB     | 0.02600      | 229-1     | 1.40086          |
| 229   | 1.86781      | 4C26TB     | -0.30419     | 229-1     | 1.86781          |
| 230   | 0.00000      | 4C26TB     | 0.03020      | 230-1     | 0.00000          |
| 230   | 0.46695      | 4C26TB     | -0.02434     | 230-1     | 0.46695          |
| 230   | 0.93391      | 4C26TB     | -0.07887     | 230-1     | 0.93391          |
| 230   | 1.40086      | 4C26TB     | -0.13341     | 230-1     | 1.40086          |
| 230   | 1.86781      | 4C26TB     | -0.18794     | 230-1     | 1.86781          |
| 231   | 0.00000      | 4C26TB     | -0.19579     | 231-1     | 0.00000          |
| 231   | 0.46695      | 4C26TB     | -0.13945     | 231-1     | 0.46695          |
| 231   | 0.93391      | 4C26TB     | -0.08311     | 231-1     | 0.93391          |
| 231   | 1.40086      | 4C26TB     | -0.02677     | 231-1     | 1.40086          |
| 231   | 1.86781      | 4C26TB     | 0.02957      | 231-1     | 1.86781          |
| 232   | 0.00000      | 4C26TB     | -0.30270     | 232-1     | 0.00000          |
| 232   | 0.46695      | 4C26TB     | 0.02829      | 232-1     | 0.46695          |
| 232   | 0.93391      | 4C26TB     | 0.35928      | 232-1     | 0.93391          |
| 232   | 1.40086      | 4C26TB     | 0.69027      | 232-1     | 1.40086          |
| 232   | 1.86781      | 4C26TB     | 1.02126      | 232-1     | 1.86781          |
| 233   | 0.00000      | 4C26TB     | 0.75322      | 233-1     | 0.00000          |
| 233   | 0.46695      | 4C26TB     | 0.87584      | 233-1     | 0.46695          |
| 233   | 0.93391      | 4C26TB     | 0.99846      | 233-1     | 0.93391          |
| 233   | 1.40086      | 4C26TB     | 1.12108      | 233-1     | 1.40086          |
| 233   | 1.86781      | 4C26TB     | 1.24370      | 233-1     | 1.86781          |
| 234   | 0.00000      | 4C26TB     | 1.13678      | 234-1     | 0.00000          |
| 234   | 0.46695      | 4C26TB     | 1.13678      | 234-1     | 0.46695          |
| 234   | 0.93391      | 4C26TB     | 1.13678      | 234-1     | 0.93391          |
| 234   | 1.40086      | 4C26TB     | 1.13678      | 234-1     | 1.40086          |
| 234   | 1.86781      | 4C26TB     | 1.13678      | 234-1     | 1.86781          |
| 235   | 0.00000      | 4C26TB     | 1.24370      | 235-1     | 0.00000          |
| 235   | 0.46695      | 4C26TB     | 1.12108      | 235-1     | 0.46695          |
| 235   | 0.93391      | 4C26TB     | 0.99846      | 235-1     | 0.93391          |
| 235   | 1.40086      | 4C26TB     | 0.87584      | 235-1     | 1.40086          |
| 235   | 1.86781      | 4C26TB     | 0.75322      | 235-1     | 1.86781          |
| 236   | 0.00000      | 4C26TB     | 1.02126      | 236-1     | 0.00000          |
| 236   | 0.46695      | 4C26TB     | 0.69027      | 236-1     | 0.46695          |
| 236   | 0.93391      | 4C26TB     | 0.35928      | 236-1     | 0.93391          |
| 236   | 1.40086      | 4C26TB     | 0.02829      | 236-1     | 1.40086          |
| 236   | 1.86781      | 4C26TB     | -0.30270     | 236-1     | 1.86781          |
| 237   | 0.00000      | 4C26TB     | 0.02957      | 237-1     | 0.00000          |
| 237   | 0.46695      | 4C26TB     | -0.02677     | 237-1     | 0.46695          |
| 237   | 0.93391      | 4C26TB     | -0.08311     | 237-1     | 0.93391          |
| 237   | 1.40086      | 4C26TB     | -0.13945     | 237-1     | 1.40086          |
| 237   | 1.86781      | 4C26TB     | -0.19579     | 237-1     | 1.86781          |
| 238   | 0.00000      | 4C26TB     | -0.18794     | 238-1     | 0.00000          |
| 238   | 0.46695      | 4C26TB     | -0.13341     | 238-1     | 0.46695          |
| 238   | 0.93391      | 4C26TB     | -0.07887     | 238-1     | 0.93391          |
| 238   | 1.40086      | 4C26TB     | -0.02434     | 238-1     | 1.40086          |
| 238   | 1.86781      | 4C26TB     | 0.03020      | 238-1     | 1.86781          |
| 239   | 0.00000      | 4C26TB     | -0.30419     | 239-1     | 0.00000          |
| 239   | 0.46695      | 4C26TB     | 0.02600      | 239-1     | 0.46695          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 239   | 0.93391      | 4C26TB     | 0.35618      | 239-1     | 0.93391          |
| 239   | 1.40086      | 4C26TB     | 0.68637      | 239-1     | 1.40086          |
| 239   | 1.86781      | 4C26TB     | 1.01656      | 239-1     | 1.86781          |
| 240   | 0.00000      | 4C26TB     | 0.74375      | 240-1     | 0.00000          |
| 240   | 0.46695      | 4C26TB     | 0.86636      | 240-1     | 0.46695          |
| 240   | 0.93391      | 4C26TB     | 0.98896      | 240-1     | 0.93391          |
| 240   | 1.40086      | 4C26TB     | 1.11156      | 240-1     | 1.40086          |
| 240   | 1.86781      | 4C26TB     | 1.23416      | 240-1     | 1.86781          |
| 241   | 0.00000      | 4C26TB     | 1.12227      | 241-1     | 0.00000          |
| 241   | 0.46695      | 4C26TB     | 1.12252      | 241-1     | 0.46695          |
| 241   | 0.93391      | 4C26TB     | 1.12277      | 241-1     | 0.93391          |
| 241   | 1.40086      | 4C26TB     | 1.12302      | 241-1     | 1.40086          |
| 241   | 1.86781      | 4C26TB     | 1.12327      | 241-1     | 1.86781          |
| 242   | 0.00000      | 4C26TB     | 1.22300      | 242-1     | 0.00000          |
| 242   | 0.46695      | 4C26TB     | 1.10522      | 242-1     | 0.46695          |
| 242   | 0.93391      | 4C26TB     | 0.98743      | 242-1     | 0.93391          |
| 242   | 1.40086      | 4C26TB     | 0.86964      | 242-1     | 1.40086          |
| 242   | 1.86781      | 4C26TB     | 0.75185      | 242-1     | 1.86781          |
| 243   | 0.00000      | 4C26TB     | 1.01558      | 243-1     | 0.00000          |
| 243   | 0.46695      | 4C26TB     | 0.68456      | 243-1     | 0.46695          |
| 243   | 0.93391      | 4C26TB     | 0.35355      | 243-1     | 0.93391          |
| 243   | 1.40086      | 4C26TB     | 0.02254      | 243-1     | 1.40086          |
| 243   | 1.86781      | 4C26TB     | -0.30847     | 243-1     | 1.86781          |
| 244   | 0.00000      | 4C26TB     | 0.02083      | 244-1     | 0.00000          |
| 244   | 0.46695      | 4C26TB     | -0.03414     | 244-1     | 0.46695          |
| 244   | 0.93391      | 4C26TB     | -0.08910     | 244-1     | 0.93391          |
| 244   | 1.40086      | 4C26TB     | -0.14407     | 244-1     | 1.40086          |
| 244   | 1.86781      | 4C26TB     | -0.19904     | 244-1     | 1.86781          |
| 245   | 0.00000      | 4C26TB     | -0.17579     | 245-1     | 0.00000          |
| 245   | 0.46695      | 4C26TB     | -0.12601     | 245-1     | 0.46695          |
| 245   | 0.93391      | 4C26TB     | -0.07622     | 245-1     | 0.93391          |
| 245   | 1.40086      | 4C26TB     | -0.02644     | 245-1     | 1.40086          |
| 245   | 1.86781      | 4C26TB     | 0.02335      | 245-1     | 1.86781          |
| 246   | 0.00000      | 4C26TB     | -0.30734     | 246-1     | 0.00000          |
| 246   | 0.46695      | 4C26TB     | 0.01858      | 246-1     | 0.46695          |
| 246   | 0.93391      | 4C26TB     | 0.34450      | 246-1     | 0.93391          |
| 246   | 1.40086      | 4C26TB     | 0.67041      | 246-1     | 1.40086          |
| 246   | 1.86781      | 4C26TB     | 0.99633      | 246-1     | 1.86781          |
| 247   | 0.00000      | 4C26TB     | 0.72494      | 247-1     | 0.00000          |
| 247   | 0.46695      | 4C26TB     | 0.84170      | 247-1     | 0.46695          |
| 247   | 0.93391      | 4C26TB     | 0.95846      | 247-1     | 0.93391          |
| 247   | 1.40086      | 4C26TB     | 1.07521      | 247-1     | 1.40086          |
| 247   | 1.86781      | 4C26TB     | 1.19197      | 247-1     | 1.86781          |
| 248   | 0.00000      | 4C26TB     | 1.07674      | 248-1     | 0.00000          |
| 248   | 0.46695      | 4C26TB     | 1.07896      | 248-1     | 0.46695          |
| 248   | 0.93391      | 4C26TB     | 1.08118      | 248-1     | 0.93391          |
| 248   | 1.40086      | 4C26TB     | 1.08341      | 248-1     | 1.40086          |
| 248   | 1.86781      | 4C26TB     | 1.08563      | 248-1     | 1.86781          |
| 249   | 0.00000      | 4C26TB     | 1.17532      | 249-1     | 0.00000          |
| 249   | 0.46695      | 4C26TB     | 1.06548      | 249-1     | 0.46695          |
| 249   | 0.93391      | 4C26TB     | 0.95564      | 249-1     | 0.93391          |
| 249   | 1.40086      | 4C26TB     | 0.84580      | 249-1     | 1.40086          |
| 249   | 1.86781      | 4C26TB     | 0.73596      | 249-1     | 1.86781          |
| 250   | 0.00000      | 4C26TB     | 0.99065      | 250-1     | 0.00000          |
| 250   | 0.46695      | 4C26TB     | 0.66488      | 250-1     | 0.46695          |
| 250   | 0.93391      | 4C26TB     | 0.33911      | 250-1     | 0.93391          |
| 250   | 1.40086      | 4C26TB     | 0.01333      | 250-1     | 1.40086          |
| 250   | 1.86781      | 4C26TB     | -0.31244     | 250-1     | 1.86781          |
| 251   | 0.00000      | 4C26TB     | 0.00572      | 251-1     | 0.00000          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 251   | 0.46695      | 4C26TB     | -0.04518     | 251-1     | 0.46695          |
| 251   | 0.93391      | 4C26TB     | -0.09609     | 251-1     | 0.93391          |
| 251   | 1.40086      | 4C26TB     | -0.14699     | 251-1     | 1.40086          |
| 251   | 1.86781      | 4C26TB     | -0.19790     | 251-1     | 1.86781          |
| 252   | 0.00000      | 4C26TB     | -0.15913     | 252-1     | 0.00000          |
| 252   | 0.46695      | 4C26TB     | -0.11693     | 252-1     | 0.46695          |
| 252   | 0.93391      | 4C26TB     | -0.07472     | 252-1     | 0.93391          |
| 252   | 1.40086      | 4C26TB     | -0.03252     | 252-1     | 1.40086          |
| 252   | 1.86781      | 4C26TB     | 0.00968      | 252-1     | 1.86781          |
| 253   | 0.00000      | 4C26TB     | -0.31146     | 253-1     | 0.00000          |
| 253   | 0.46695      | 4C26TB     | 0.00628      | 253-1     | 0.46695          |
| 253   | 0.93391      | 4C26TB     | 0.32402      | 253-1     | 0.93391          |
| 253   | 1.40086      | 4C26TB     | 0.64177      | 253-1     | 1.40086          |
| 253   | 1.86781      | 4C26TB     | 0.95951      | 253-1     | 1.86781          |
| 254   | 0.00000      | 4C26TB     | 0.69205      | 254-1     | 0.00000          |
| 254   | 0.46695      | 4C26TB     | 0.79966      | 254-1     | 0.46695          |
| 254   | 0.93391      | 4C26TB     | 0.90727      | 254-1     | 0.93391          |
| 254   | 1.40086      | 4C26TB     | 1.01488      | 254-1     | 1.40086          |
| 254   | 1.86781      | 4C26TB     | 1.12250      | 254-1     | 1.86781          |
| 255   | 0.00000      | 4C26TB     | 1.00835      | 255-1     | 0.00000          |
| 255   | 0.46695      | 4C26TB     | 1.01062      | 255-1     | 0.46695          |
| 255   | 0.93391      | 4C26TB     | 1.01289      | 255-1     | 0.93391          |
| 255   | 1.40086      | 4C26TB     | 1.01515      | 255-1     | 1.40086          |
| 255   | 1.86781      | 4C26TB     | 1.01742      | 255-1     | 1.86781          |
| 256   | 0.00000      | 4C26TB     | 1.09591      | 256-1     | 0.00000          |
| 256   | 0.46695      | 4C26TB     | 0.99958      | 256-1     | 0.46695          |
| 256   | 0.93391      | 4C26TB     | 0.90326      | 256-1     | 0.93391          |
| 256   | 1.40086      | 4C26TB     | 0.80694      | 256-1     | 1.40086          |
| 256   | 1.86781      | 4C26TB     | 0.71061      | 256-1     | 1.86781          |
| 257   | 0.00000      | 4C26TB     | 0.95358      | 257-1     | 0.00000          |
| 257   | 0.46695      | 4C26TB     | 0.63516      | 257-1     | 0.46695          |
| 257   | 0.93391      | 4C26TB     | 0.31674      | 257-1     | 0.93391          |
| 257   | 1.40086      | 4C26TB     | -0.00168     | 257-1     | 1.40086          |
| 257   | 1.86781      | 4C26TB     | -0.32009     | 257-1     | 1.86781          |
| 258   | 0.00000      | 4C26TB     | -0.01525     | 258-1     | 0.00000          |
| 258   | 0.46695      | 4C26TB     | -0.05933     | 258-1     | 0.46695          |
| 258   | 0.93391      | 4C26TB     | -0.10341     | 258-1     | 0.93391          |
| 258   | 1.40086      | 4C26TB     | -0.14749     | 258-1     | 1.40086          |
| 258   | 1.86781      | 4C26TB     | -0.19157     | 258-1     | 1.86781          |
| 259   | 0.00000      | 4C26TB     | -0.13709     | 259-1     | 0.00000          |
| 259   | 0.46695      | 4C26TB     | -0.10536     | 259-1     | 0.46695          |
| 259   | 0.93391      | 4C26TB     | -0.07363     | 259-1     | 0.93391          |
| 259   | 1.40086      | 4C26TB     | -0.04190     | 259-1     | 1.40086          |
| 259   | 1.86781      | 4C26TB     | -0.01017     | 259-1     | 1.86781          |
| 260   | 0.00000      | 4C26TB     | -0.32183     | 260-1     | 0.00000          |
| 260   | 0.46695      | 4C26TB     | -0.01321     | 260-1     | 0.46695          |
| 260   | 0.93391      | 4C26TB     | 0.29541      | 260-1     | 0.93391          |
| 260   | 1.40086      | 4C26TB     | 0.60402      | 260-1     | 1.40086          |
| 260   | 1.86781      | 4C26TB     | 0.91264      | 260-1     | 1.86781          |
| 261   | 0.00000      | 4C26TB     | 0.64726      | 261-1     | 0.00000          |
| 261   | 0.46695      | 4C26TB     | 0.74143      | 261-1     | 0.46695          |
| 261   | 0.93391      | 4C26TB     | 0.83561      | 261-1     | 0.93391          |
| 261   | 1.40086      | 4C26TB     | 0.92978      | 261-1     | 1.40086          |
| 261   | 1.86781      | 4C26TB     | 1.02396      | 261-1     | 1.86781          |
| 262   | 0.00000      | 4C26TB     | 0.91466      | 262-1     | 0.00000          |
| 262   | 0.46695      | 4C26TB     | 0.91697      | 262-1     | 0.46695          |
| 262   | 0.93391      | 4C26TB     | 0.91929      | 262-1     | 0.93391          |
| 262   | 1.40086      | 4C26TB     | 0.92160      | 262-1     | 1.40086          |
| 262   | 1.86781      | 4C26TB     | 0.92391      | 262-1     | 1.86781          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 263   | 0.00000      | 4C26TB     | 0.98844      | 263-1     | 0.00000          |
| 263   | 0.46695      | 4C26TB     | 0.90964      | 263-1     | 0.46695          |
| 263   | 0.93391      | 4C26TB     | 0.83085      | 263-1     | 0.93391          |
| 263   | 1.40086      | 4C26TB     | 0.75205      | 263-1     | 1.40086          |
| 263   | 1.86781      | 4C26TB     | 0.67325      | 263-1     | 1.86781          |
| 264   | 0.00000      | 4C26TB     | 0.90629      | 264-1     | 0.00000          |
| 264   | 0.46695      | 4C26TB     | 0.59646      | 264-1     | 0.46695          |
| 264   | 0.93391      | 4C26TB     | 0.28663      | 264-1     | 0.93391          |
| 264   | 1.40086      | 4C26TB     | -0.02320     | 264-1     | 1.40086          |
| 264   | 1.86781      | 4C26TB     | -0.33303     | 264-1     | 1.86781          |
| 265   | 0.00000      | 4C26TB     | -0.03986     | 265-1     | 0.00000          |
| 265   | 0.46695      | 4C26TB     | -0.07471     | 265-1     | 0.46695          |
| 265   | 0.93391      | 4C26TB     | -0.10956     | 265-1     | 0.93391          |
| 265   | 1.40086      | 4C26TB     | -0.14441     | 265-1     | 1.40086          |
| 265   | 1.86781      | 4C26TB     | -0.17926     | 265-1     | 1.86781          |
| 266   | 0.00000      | 4C26TB     | -0.10913     | 266-1     | 0.00000          |
| 266   | 0.46695      | 4C26TB     | -0.08997     | 266-1     | 0.46695          |
| 266   | 0.93391      | 4C26TB     | -0.07081     | 266-1     | 0.93391          |
| 266   | 1.40086      | 4C26TB     | -0.05165     | 266-1     | 1.40086          |
| 266   | 1.86781      | 4C26TB     | -0.03249     | 266-1     | 1.86781          |
| 267   | 0.00000      | 4C26TB     | -0.33101     | 267-1     | 0.00000          |
| 267   | 0.46695      | 4C26TB     | -0.03557     | 267-1     | 0.46695          |
| 267   | 0.93391      | 4C26TB     | 0.25987      | 267-1     | 0.93391          |
| 267   | 1.40086      | 4C26TB     | 0.55531      | 267-1     | 1.40086          |
| 267   | 1.86781      | 4C26TB     | 0.85075      | 267-1     | 1.86781          |
| 268   | 0.00000      | 4C26TB     | 0.58795      | 268-1     | 0.00000          |
| 268   | 0.46695      | 4C26TB     | 0.66536      | 268-1     | 0.46695          |
| 268   | 0.93391      | 4C26TB     | 0.74276      | 268-1     | 0.93391          |
| 268   | 1.40086      | 4C26TB     | 0.82017      | 268-1     | 1.40086          |
| 268   | 1.86781      | 4C26TB     | 0.89758      | 268-1     | 1.86781          |
| 269   | 0.00000      | 4C26TB     | 0.79290      | 269-1     | 0.00000          |
| 269   | 0.46695      | 4C26TB     | 0.79787      | 269-1     | 0.46695          |
| 269   | 0.93391      | 4C26TB     | 0.80283      | 269-1     | 0.93391          |
| 269   | 1.40086      | 4C26TB     | 0.80780      | 269-1     | 1.40086          |
| 269   | 1.86781      | 4C26TB     | 0.81277      | 269-1     | 1.86781          |
| 270   | 0.00000      | 4C26TB     | 0.85677      | 270-1     | 0.00000          |
| 270   | 0.46695      | 4C26TB     | 0.79746      | 270-1     | 0.46695          |
| 270   | 0.93391      | 4C26TB     | 0.73814      | 270-1     | 0.93391          |
| 270   | 1.40086      | 4C26TB     | 0.67883      | 270-1     | 1.40086          |
| 270   | 1.86781      | 4C26TB     | 0.61951      | 270-1     | 1.86781          |
| 271   | 0.00000      | 4C26TB     | 0.83703      | 271-1     | 0.00000          |
| 271   | 0.46695      | 4C26TB     | 0.54293      | 271-1     | 0.46695          |
| 271   | 0.93391      | 4C26TB     | 0.24882      | 271-1     | 0.93391          |
| 271   | 1.40086      | 4C26TB     | -0.04528     | 271-1     | 1.40086          |
| 271   | 1.86781      | 4C26TB     | -0.33938     | 271-1     | 1.86781          |
| 272   | 0.00000      | 4C26TB     | -0.06234     | 272-1     | 0.00000          |
| 272   | 0.46695      | 4C26TB     | -0.08696     | 272-1     | 0.46695          |
| 272   | 0.93391      | 4C26TB     | -0.11157     | 272-1     | 0.93391          |
| 272   | 1.40086      | 4C26TB     | -0.13618     | 272-1     | 1.40086          |
| 272   | 1.86781      | 4C26TB     | -0.16080     | 272-1     | 1.86781          |
| 273   | 0.00000      | 4C26TB     | -0.07405     | 273-1     | 0.00000          |
| 273   | 0.46695      | 4C26TB     | -0.06856     | 273-1     | 0.46695          |
| 273   | 0.93391      | 4C26TB     | -0.06308     | 273-1     | 0.93391          |
| 273   | 1.40086      | 4C26TB     | -0.05759     | 273-1     | 1.40086          |
| 273   | 1.86781      | 4C26TB     | -0.05210     | 273-1     | 1.86781          |
| 274   | 0.00000      | 4C26TB     | -0.31384     | 274-1     | 0.00000          |
| 274   | 0.46695      | 4C26TB     | -0.04779     | 274-1     | 0.46695          |
| 274   | 0.93391      | 4C26TB     | 0.21826      | 274-1     | 0.93391          |
| 274   | 1.40086      | 4C26TB     | 0.48431      | 274-1     | 1.40086          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 274   | 1.86781      | 4C26TB     | 0.75036      | 274-1     | 1.86781          |
| 275   | 0.00000      | 4C26TB     | 0.51321      | 275-1     | 0.00000          |
| 275   | 0.46695      | 4C26TB     | 0.57059      | 275-1     | 0.46695          |
| 275   | 0.93391      | 4C26TB     | 0.62796      | 275-1     | 0.93391          |
| 275   | 1.40086      | 4C26TB     | 0.68533      | 275-1     | 1.40086          |
| 275   | 1.86781      | 4C26TB     | 0.74270      | 275-1     | 1.86781          |
| 276   | 0.00000      | 4C26TB     | 0.64264      | 276-1     | 0.00000          |
| 276   | 0.46695      | 4C26TB     | 0.65485      | 276-1     | 0.46695          |
| 276   | 0.93391      | 4C26TB     | 0.66707      | 276-1     | 0.93391          |
| 276   | 1.40086      | 4C26TB     | 0.67928      | 276-1     | 1.40086          |
| 276   | 1.86781      | 4C26TB     | 0.69149      | 276-1     | 1.86781          |
| 277   | 0.00000      | 4C26TB     | 0.70857      | 277-1     | 0.00000          |
| 277   | 0.46695      | 4C26TB     | 0.66649      | 277-1     | 0.46695          |
| 277   | 0.93391      | 4C26TB     | 0.62441      | 277-1     | 0.93391          |
| 277   | 1.40086      | 4C26TB     | 0.58232      | 277-1     | 1.40086          |
| 277   | 1.86781      | 4C26TB     | 0.54024      | 277-1     | 1.86781          |
| 278   | 0.00000      | 4C26TB     | 0.71810      | 278-1     | 0.00000          |
| 278   | 0.46695      | 4C26TB     | 0.46120      | 278-1     | 0.46695          |
| 278   | 0.93391      | 4C26TB     | 0.20430      | 278-1     | 0.93391          |
| 278   | 1.40086      | 4C26TB     | -0.05260     | 278-1     | 1.40086          |
| 278   | 1.86781      | 4C26TB     | -0.30950     | 278-1     | 1.86781          |
| 279   | 0.00000      | 4C26TB     | -0.07643     | 279-1     | 0.00000          |
| 279   | 0.46695      | 4C26TB     | -0.09114     | 279-1     | 0.46695          |
| 279   | 0.93391      | 4C26TB     | -0.10586     | 279-1     | 0.93391          |
| 279   | 1.40086      | 4C26TB     | -0.12057     | 279-1     | 1.40086          |
| 279   | 1.86781      | 4C26TB     | -0.13529     | 279-1     | 1.86781          |
| 280   | 0.00000      | 4C26TB     | -0.02400     | 280-1     | 0.00000          |
| 280   | 0.46695      | 4C26TB     | -0.03621     | 280-1     | 0.46695          |
| 280   | 0.93391      | 4C26TB     | -0.04841     | 280-1     | 0.93391          |
| 280   | 1.40086      | 4C26TB     | -0.06062     | 280-1     | 1.40086          |
| 280   | 1.86781      | 4C26TB     | -0.07283     | 280-1     | 1.86781          |
| 281   | 0.00000      | 4C26TB     | -0.25258     | 281-1     | 0.00000          |
| 281   | 0.46695      | 4C26TB     | -0.04096     | 281-1     | 0.46695          |
| 281   | 0.93391      | 4C26TB     | 0.17066      | 281-1     | 0.93391          |
| 281   | 1.40086      | 4C26TB     | 0.38228      | 281-1     | 1.40086          |
| 281   | 1.86781      | 4C26TB     | 0.59390      | 281-1     | 1.86781          |
| 282   | 0.00000      | 4C26TB     | 0.42183      | 282-1     | 0.00000          |
| 282   | 0.46695      | 4C26TB     | 0.45768      | 282-1     | 0.46695          |
| 282   | 0.93391      | 4C26TB     | 0.49353      | 282-1     | 0.93391          |
| 282   | 1.40086      | 4C26TB     | 0.52938      | 282-1     | 1.40086          |
| 282   | 1.86781      | 4C26TB     | 0.56523      | 282-1     | 1.86781          |
| 283   | 0.00000      | 4C26TB     | 0.47810      | 283-1     | 0.00000          |
| 283   | 0.46695      | 4C26TB     | 0.49723      | 283-1     | 0.46695          |
| 283   | 0.93391      | 4C26TB     | 0.51635      | 283-1     | 0.93391          |
| 283   | 1.40086      | 4C26TB     | 0.53547      | 283-1     | 1.40086          |
| 283   | 1.86781      | 4C26TB     | 0.55459      | 283-1     | 1.86781          |
| 284   | 0.00000      | 4C26TB     | 0.53806      | 284-1     | 0.00000          |
| 284   | 0.46695      | 4C26TB     | 0.51461      | 284-1     | 0.46695          |
| 284   | 0.93391      | 4C26TB     | 0.49116      | 284-1     | 0.93391          |
| 284   | 1.40086      | 4C26TB     | 0.46770      | 284-1     | 1.40086          |
| 284   | 1.86781      | 4C26TB     | 0.44425      | 284-1     | 1.86781          |
| 285   | 0.00000      | 4C26TB     | 0.54379      | 285-1     | 0.00000          |
| 285   | 0.46695      | 4C26TB     | 0.34957      | 285-1     | 0.46695          |
| 285   | 0.93391      | 4C26TB     | 0.15534      | 285-1     | 0.93391          |
| 285   | 1.40086      | 4C26TB     | -0.03889     | 285-1     | 1.40086          |
| 285   | 1.86781      | 4C26TB     | -0.23311     | 285-1     | 1.86781          |
| 286   | 0.00000      | 4C26TB     | -0.08765     | 286-1     | 0.00000          |
| 286   | 0.46695      | 4C26TB     | -0.08939     | 286-1     | 0.46695          |
| 286   | 0.93391      | 4C26TB     | -0.09113     | 286-1     | 0.93391          |

Table: Element Forces - Frames, Part 2 of 2

| Frame | Station<br>m | OutputCase | M3<br>Tonf-m | FrameElem | ElemStation<br>m |
|-------|--------------|------------|--------------|-----------|------------------|
| 286   | 1.40086      | 4C26TB     | -0.09286     | 286-1     | 1.40086          |
| 286   | 1.86781      | 4C26TB     | -0.09460     | 286-1     | 1.86781          |
| 287   | 0.00000      | 4C26TB     | 0.06836      | 287-1     | 0.00000          |
| 287   | 0.46695      | 4C26TB     | 0.02064      | 287-1     | 0.46695          |
| 287   | 0.93391      | 4C26TB     | -0.02708     | 287-1     | 0.93391          |
| 287   | 1.40086      | 4C26TB     | -0.07480     | 287-1     | 1.40086          |
| 287   | 1.86781      | 4C26TB     | -0.12252     | 287-1     | 1.86781          |
| 288   | 0.00000      | 4C26TB     | -0.12298     | 288-1     | 0.00000          |
| 288   | 0.46695      | 4C26TB     | -0.00259     | 288-1     | 0.46695          |
| 288   | 0.93391      | 4C26TB     | 0.11779      | 288-1     | 0.93391          |
| 288   | 1.40086      | 4C26TB     | 0.23818      | 288-1     | 1.40086          |
| 288   | 1.86781      | 4C26TB     | 0.35856      | 288-1     | 1.86781          |
| 289   | 0.00000      | 4C26TB     | 0.33010      | 289-1     | 0.00000          |
| 289   | 0.46695      | 4C26TB     | 0.33827      | 289-1     | 0.46695          |
| 289   | 0.93391      | 4C26TB     | 0.34645      | 289-1     | 0.93391          |
| 289   | 1.40086      | 4C26TB     | 0.35463      | 289-1     | 1.40086          |
| 289   | 1.86781      | 4C26TB     | 0.36280      | 289-1     | 1.86781          |
| 290   | 0.00000      | 4C26TB     | 0.31482      | 290-1     | 0.00000          |
| 290   | 0.46695      | 4C26TB     | 0.33567      | 290-1     | 0.46695          |
| 290   | 0.93391      | 4C26TB     | 0.35653      | 290-1     | 0.93391          |
| 290   | 1.40086      | 4C26TB     | 0.37738      | 290-1     | 1.40086          |
| 290   | 1.86781      | 4C26TB     | 0.39823      | 290-1     | 1.86781          |
| 291   | 0.00000      | 4C26TB     | 0.32962      | 291-1     | 0.00000          |
| 291   | 0.46695      | 4C26TB     | 0.33708      | 291-1     | 0.46695          |
| 291   | 0.93391      | 4C26TB     | 0.34455      | 291-1     | 0.93391          |
| 291   | 1.40086      | 4C26TB     | 0.35201      | 291-1     | 1.40086          |
| 291   | 1.86781      | 4C26TB     | 0.35948      | 291-1     | 1.86781          |
| 292   | 0.00000      | 4C26TB     | 0.30281      | 292-1     | 0.00000          |
| 292   | 0.46695      | 4C26TB     | 0.20367      | 292-1     | 0.46695          |
| 292   | 0.93391      | 4C26TB     | 0.10453      | 292-1     | 0.93391          |
| 292   | 1.40086      | 4C26TB     | 0.00540      | 292-1     | 1.40086          |
| 292   | 1.86781      | 4C26TB     | -0.09374     | 292-1     | 1.86781          |
| 293   | 0.00000      | 4C26TB     | -0.12539     | 293-1     | 0.00000          |
| 293   | 0.46695      | 4C26TB     | -0.09696     | 293-1     | 0.46695          |
| 293   | 0.93391      | 4C26TB     | -0.06854     | 293-1     | 0.93391          |
| 293   | 1.40086      | 4C26TB     | -0.04012     | 293-1     | 1.40086          |
| 293   | 1.86781      | 4C26TB     | -0.01169     | 293-1     | 1.86781          |
| 294   | 0.00000      | 4C26TB     | 0.28906      | 294-1     | 0.00000          |
| 294   | 0.46695      | 4C26TB     | 0.14343      | 294-1     | 0.46695          |
| 294   | 0.93391      | 4C26TB     | -0.00220     | 294-1     | 0.93391          |
| 294   | 1.40086      | 4C26TB     | -0.14783     | 294-1     | 1.40086          |
| 294   | 1.86781      | 4C26TB     | -0.29346     | 294-1     | 1.86781          |
| 295   | 0.00000      | 4C26TB     | 0.13794      | 295-1     | 0.00000          |
| 295   | 0.46695      | 4C26TB     | 0.10078      | 295-1     | 0.46695          |
| 295   | 0.93391      | 4C26TB     | 0.06361      | 295-1     | 0.93391          |
| 295   | 1.40086      | 4C26TB     | 0.02644      | 295-1     | 1.40086          |
| 295   | 1.86781      | 4C26TB     | -0.01073     | 295-1     | 1.86781          |
| 296   | 0.00000      | 4C26TB     | 0.30645      | 296-1     | 0.00000          |
| 296   | 0.46695      | 4C26TB     | 0.25351      | 296-1     | 0.46695          |
| 296   | 0.93391      | 4C26TB     | 0.20057      | 296-1     | 0.93391          |
| 296   | 1.40086      | 4C26TB     | 0.14764      | 296-1     | 1.40086          |
| 296   | 1.86781      | 4C26TB     | 0.09470      | 296-1     | 1.86781          |
| 297   | 0.00000      | 4C26TB     | 0.16096      | 297-1     | 0.00000          |
| 297   | 0.46695      | 4C26TB     | 0.18015      | 297-1     | 0.46695          |
| 297   | 0.93391      | 4C26TB     | 0.19934      | 297-1     | 0.93391          |
| 297   | 1.40086      | 4C26TB     | 0.21853      | 297-1     | 1.40086          |
| 297   | 1.86781      | 4C26TB     | 0.23772      | 297-1     | 1.86781          |
| 298   | 0.00000      | 4C26TB     | 0.04974      | 298-1     | 0.00000          |
| 298   | 0.46695      | 4C26TB     | 0.12416      | 298-1     | 0.46695          |

| Table: Element Forces - Frames, Part 2 of 2 |         |            |          |           |             |
|---------------------------------------------|---------|------------|----------|-----------|-------------|
| Frame                                       | Station | OutputCase | M3       | FrameElem | ElemStation |
|                                             | m       |            | Tonf-m   |           | m           |
| 298                                         | 0.93391 | 4C26TB     | 0.19859  | 298-1     | 0.93391     |
| 298                                         | 1.40086 | 4C26TB     | 0.27301  | 298-1     | 1.40086     |
| 298                                         | 1.86781 | 4C26TB     | 0.34744  | 298-1     | 1.86781     |
| 299                                         | 0.00000 | 4C26TB     | -0.06367 | 299-1     | 0.00000     |
| 299                                         | 0.46695 | 4C26TB     | -0.00422 | 299-1     | 0.46695     |
| 299                                         | 0.93391 | 4C26TB     | 0.05523  | 299-1     | 0.93391     |
| 299                                         | 1.40086 | 4C26TB     | 0.11468  | 299-1     | 1.40086     |
| 299                                         | 1.86781 | 4C26TB     | 0.17413  | 299-1     | 1.86781     |
| 300                                         | 0.00000 | 4C26TB     | -0.27999 | 300-1     | 0.00000     |
| 300                                         | 0.46695 | 4C26TB     | -0.16076 | 300-1     | 0.46695     |
| 300                                         | 0.93391 | 4C26TB     | -0.04152 | 300-1     | 0.93391     |
| 300                                         | 1.40086 | 4C26TB     | 0.07772  | 300-1     | 1.40086     |
| 300                                         | 1.86781 | 4C26TB     | 0.19695  | 300-1     | 1.86781     |
| 301                                         | 0.00000 | 4C26TB     | 0.90258  | 301-1     | 0.00000     |
| 301                                         | 0.46695 | 4C26TB     | 0.46106  | 301-1     | 0.46695     |
| 301                                         | 0.93391 | 4C26TB     | 0.01954  | 301-1     | 0.93391     |
| 301                                         | 1.40086 | 4C26TB     | -0.42198 | 301-1     | 1.40086     |
| 301                                         | 1.86781 | 4C26TB     | -0.86349 | 301-1     | 1.86781     |
| 302                                         | 0.00000 | 4C26TB     | 0.78614  | 302-1     | 0.00000     |
| 302                                         | 0.46695 | 4C26TB     | 0.40281  | 302-1     | 0.46695     |
| 302                                         | 0.93391 | 4C26TB     | 0.01948  | 302-1     | 0.93391     |
| 302                                         | 1.40086 | 4C26TB     | -0.36385 | 302-1     | 1.40086     |
| 302                                         | 1.86781 | 4C26TB     | -0.74718 | 302-1     | 1.86781     |
| 303                                         | 0.00000 | 4C26TB     | 0.53753  | 303-1     | 0.00000     |
| 303                                         | 0.46695 | 4C26TB     | 0.31190  | 303-1     | 0.46695     |
| 303                                         | 0.93391 | 4C26TB     | 0.08627  | 303-1     | 0.93391     |
| 303                                         | 1.40086 | 4C26TB     | -0.13937 | 303-1     | 1.40086     |
| 303                                         | 1.86781 | 4C26TB     | -0.36500 | 303-1     | 1.86781     |
| 304                                         | 0.00000 | 4C26TB     | 0.04421  | 304-1     | 0.00000     |
| 304                                         | 0.46695 | 4C26TB     | 0.05987  | 304-1     | 0.46695     |
| 304                                         | 0.93391 | 4C26TB     | 0.07553  | 304-1     | 0.93391     |
| 304                                         | 1.40086 | 4C26TB     | 0.09120  | 304-1     | 1.40086     |
| 304                                         | 1.86781 | 4C26TB     | 0.10686  | 304-1     | 1.86781     |
| 305                                         | 0.00000 | 4C26TB     | -0.42378 | 305-1     | 0.00000     |
| 305                                         | 0.46695 | 4C26TB     | -0.16973 | 305-1     | 0.46695     |
| 305                                         | 0.93391 | 4C26TB     | 0.08431  | 305-1     | 0.93391     |
| 305                                         | 1.40086 | 4C26TB     | 0.33835  | 305-1     | 1.40086     |
| 305                                         | 1.86781 | 4C26TB     | 0.59239  | 305-1     | 1.86781     |
| 306                                         | 0.00000 | 4C26TB     | -0.79218 | 306-1     | 0.00000     |
| 306                                         | 0.46695 | 4C26TB     | -0.38786 | 306-1     | 0.46695     |
| 306                                         | 0.93391 | 4C26TB     | 0.01646  | 306-1     | 0.93391     |
| 306                                         | 1.40086 | 4C26TB     | 0.42078  | 306-1     | 1.40086     |
| 306                                         | 1.86781 | 4C26TB     | 0.82510  | 306-1     | 1.86781     |
| 307                                         | 0.00000 | 4C26TB     | -0.82381 | 307-1     | 0.00000     |
| 307                                         | 0.46695 | 4C26TB     | -0.42046 | 307-1     | 0.46695     |
| 307                                         | 0.93391 | 4C26TB     | -0.01711 | 307-1     | 0.93391     |
| 307                                         | 1.40086 | 4C26TB     | 0.38624  | 307-1     | 1.40086     |
| 307                                         | 1.86781 | 4C26TB     | 0.78960  | 307-1     | 1.86781     |

Table: Joint Displacements

| Table: Joint Displacements |            |           |            |            |           |           |          |          |
|----------------------------|------------|-----------|------------|------------|-----------|-----------|----------|----------|
| Joint                      | OutputCase | CaseType  | U1         | U2         | U3        | R1        | R2       | R3       |
|                            |            |           | m          | m          | m         | Radians   | Radians  | Radians  |
| 1                          | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | -0.000096 | 0.000151 | 0.000000 |
| 2                          | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.000152 | -0.000266 | 0.000149 | 0.000000 |
| 3                          | 4C26TB     | LinStatic | -1.248E-20 | -1.441E-20 | -0.000301 | -0.000485 | 0.000145 | 0.000000 |
| 4                          | 4C26TB     | LinStatic | -1.567E-20 | -2.302E-20 | -0.000443 | -0.000712 | 0.000137 | 0.000000 |

| Table: Joint Displacements |            |           |            |            |           |           |           |           |
|----------------------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| Joint                      | OutputCase | CaseType  | U1         | U2         | U3        | R1        | R2        | R3        |
|                            |            |           | m          | m          | m         | Radians   | Radians   | Radians   |
| 5                          | 4C26TB     | LinStatic | -1.712E-20 | -3.202E-20 | -0.000576 | -0.000927 | 0.000125  | 0.000000  |
| 6                          | 4C26TB     | LinStatic | -1.700E-20 | -4.092E-20 | -0.000695 | -0.001123 | 0.000110  | 0.000000  |
| 7                          | 4C26TB     | LinStatic | -1.551E-20 | -4.927E-20 | -0.000797 | -0.001293 | 0.000092  | 0.000000  |
| 8                          | 4C26TB     | LinStatic | -1.284E-20 | -5.670E-20 | -0.000880 | -0.001431 | 0.000071  | 0.000000  |
| 9                          | 4C26TB     | LinStatic | 0.000000   | -6.286E-20 | -0.000941 | -0.001535 | 0.000049  | 0.000000  |
| 10                         | 4C26TB     | LinStatic | 0.000000   | -6.749E-20 | -0.000978 | -0.001601 | 0.000025  | 0.000000  |
| 11                         | 4C26TB     | LinStatic | 0.000000   | -7.040E-20 | -0.000991 | -0.001628 | 4.902E-08 | 0.000000  |
| 12                         | 4C26TB     | LinStatic | 0.000000   | -7.145E-20 | -0.000978 | -0.001615 | -0.000025 | 0.000000  |
| 13                         | 4C26TB     | LinStatic | 1.089E-20  | -7.058E-20 | -0.000941 | -0.001563 | -0.000049 | 0.000000  |
| 14                         | 4C26TB     | LinStatic | 1.633E-20  | -6.773E-20 | -0.000880 | -0.001472 | -0.000071 | 0.000000  |
| 15                         | 4C26TB     | LinStatic | 2.157E-20  | -6.295E-20 | -0.000797 | -0.001344 | -0.000092 | 0.000000  |
| 16                         | 4C26TB     | LinStatic | 2.644E-20  | -5.627E-20 | -0.000695 | -0.001183 | -0.000110 | 0.000000  |
| 17                         | 4C26TB     | LinStatic | 3.078E-20  | -4.780E-20 | -0.000576 | -0.000992 | -0.000125 | 0.000000  |
| 18                         | 4C26TB     | LinStatic | 3.442E-20  | -3.769E-20 | -0.000444 | -0.000779 | -0.000136 | 0.000000  |
| 19                         | 4C26TB     | LinStatic | 3.723E-20  | -2.616E-20 | -0.000301 | -0.000552 | -0.000145 | 0.000000  |
| 20                         | 4C26TB     | LinStatic | 3.912E-20  | -1.347E-20 | -0.000152 | -0.000329 | -0.000150 | 1.012E-20 |
| 21                         | 4C26TB     | LinStatic | 4.003E-20  | 0.000000   | 0.000000  | -0.000156 | -0.000152 | 1.010E-20 |
| 22                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | -0.000059 | 0.000637  | 0.000000  |
| 23                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.000644 | -0.000251 | 0.000629  | 0.000000  |
| 24                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.001272 | -0.000497 | 0.000606  | 0.000000  |
| 25                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.001868 | -0.000746 | 0.000567  | 0.000000  |
| 26                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.002418 | -0.000979 | 0.000514  | 0.000000  |
| 27                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.002907 | -0.001185 | 0.000449  | 0.000000  |
| 28                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.003325 | -0.001359 | 0.000373  | 0.000000  |
| 29                         | 4C26TB     | LinStatic | 0.000000   | -1.015E-20 | -0.003661 | -0.001499 | 0.000288  | 0.000000  |
| 30                         | 4C26TB     | LinStatic | 0.000000   | -1.274E-20 | -0.003907 | -0.001604 | 0.000197  | 0.000000  |
| 31                         | 4C26TB     | LinStatic | 0.000000   | -1.497E-20 | -0.004059 | -0.001671 | 0.000102  | 0.000000  |
| 32                         | 4C26TB     | LinStatic | 0.000000   | -1.671E-20 | -0.004113 | -0.001701 | 4.213E-06 | 0.000000  |
| 33                         | 4C26TB     | LinStatic | 0.000000   | -1.789E-20 | -0.004068 | -0.001692 | -0.000094 | 0.000000  |
| 34                         | 4C26TB     | LinStatic | 0.000000   | -1.845E-20 | -0.003924 | -0.001645 | -0.000190 | 0.000000  |
| 35                         | 4C26TB     | LinStatic | 0.000000   | -1.835E-20 | -0.003684 | -0.001560 | -0.000282 | 0.000000  |
| 36                         | 4C26TB     | LinStatic | 1.063E-20  | -1.757E-20 | -0.003353 | -0.001439 | -0.000369 | 0.000000  |
| 37                         | 4C26TB     | LinStatic | 1.282E-20  | -1.611E-20 | -0.002938 | -0.001281 | -0.000447 | 0.000000  |
| 38                         | 4C26TB     | LinStatic | 1.478E-20  | -1.395E-20 | -0.002449 | -0.001090 | -0.000516 | 0.000000  |
| 39                         | 4C26TB     | LinStatic | 1.643E-20  | -1.114E-20 | -0.001896 | -0.000868 | -0.000572 | 0.000000  |
| 40                         | 4C26TB     | LinStatic | 1.770E-20  | 0.000000   | -0.001293 | -0.000626 | -0.000614 | 0.000000  |
| 41                         | 4C26TB     | LinStatic | 1.855E-20  | 0.000000   | -0.000656 | -0.000384 | -0.000640 | 0.000000  |
| 42                         | 4C26TB     | LinStatic | 1.897E-20  | 0.000000   | 0.000000  | -0.000192 | -0.000649 | 0.000000  |
| 43                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | 0.000010  | 0.001145  | 1.481E-20 |
| 44                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.001157 | -0.000149 | 0.001130  | 1.337E-20 |
| 45                         | 4C26TB     | LinStatic | 0.000000   | 1.639E-20  | -0.002284 | -0.000353 | 0.001083  | 1.158E-20 |
| 46                         | 4C26TB     | LinStatic | 0.000000   | 2.226E-20  | -0.003346 | -0.000562 | 0.001004  | 0.000000  |
| 47                         | 4C26TB     | LinStatic | 0.000000   | 2.671E-20  | -0.004313 | -0.000758 | 0.000895  | 0.000000  |
| 48                         | 4C26TB     | LinStatic | 0.000000   | 2.993E-20  | -0.005156 | -0.000931 | 0.000765  | 0.000000  |
| 49                         | 4C26TB     | LinStatic | 0.000000   | 3.210E-20  | -0.005859 | -0.001079 | 0.000625  | 0.000000  |
| 50                         | 4C26TB     | LinStatic | 0.000000   | 3.342E-20  | -0.006418 | -0.001199 | 0.000479  | 0.000000  |
| 51                         | 4C26TB     | LinStatic | 0.000000   | 3.405E-20  | -0.006826 | -0.001290 | 0.000326  | 0.000000  |
| 52                         | 4C26TB     | LinStatic | 0.000000   | 3.403E-20  | -0.007076 | -0.001352 | 0.000166  | 0.000000  |
| 53                         | 4C26TB     | LinStatic | 0.000000   | 3.343E-20  | -0.007161 | -0.001384 | 3.025E-06 | 0.000000  |
| 54                         | 4C26TB     | LinStatic | 0.000000   | 3.226E-20  | -0.007082 | -0.001385 | -0.000159 | 0.000000  |
| 55                         | 4C26TB     | LinStatic | 0.000000   | 3.056E-20  | -0.006838 | -0.001355 | -0.000320 | 0.000000  |
| 56                         | 4C26TB     | LinStatic | 0.000000   | 2.835E-20  | -0.006434 | -0.001295 | -0.000475 | 0.000000  |
| 57                         | 4C26TB     | LinStatic | 0.000000   | 2.565E-20  | -0.005879 | -0.001205 | -0.000622 | 0.000000  |
| 58                         | 4C26TB     | LinStatic | 0.000000   | 2.245E-20  | -0.005178 | -0.001086 | -0.000763 | 0.000000  |
| 59                         | 4C26TB     | LinStatic | 0.000000   | 1.875E-20  | -0.004337 | -0.000938 | -0.000894 | 0.000000  |
| 60                         | 4C26TB     | LinStatic | 0.000000   | 1.457E-20  | -0.003371 | -0.000764 | -0.001006 | 0.000000  |
| 61                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.002303 | -0.000573 | -0.001090 | 0.000000  |
| 62                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.001168 | -0.000381 | -0.001140 | 0.000000  |
| 63                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | -0.000229 | -0.001156 | 0.000000  |

| Table: Joint Displacements |            |           |            |            |           |           |            |            |
|----------------------------|------------|-----------|------------|------------|-----------|-----------|------------|------------|
| Joint                      | OutputCase | CaseType  | U1         | U2         | U3        | R1        | R2         | R3         |
|                            |            |           | m          | m          | m         | Radians   | Radians    | Radians    |
| 64                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | 0.000116  | 0.001439   | 1.785E-20  |
| 65                         | 4C26TB     | LinStatic | 0.000000   | 1.196E-20  | -0.001454 | 0.000058  | 0.001419   | 1.596E-20  |
| 66                         | 4C26TB     | LinStatic | 0.000000   | 2.214E-20  | -0.002868 | -0.000019 | 0.001359   | 1.382E-20  |
| 67                         | 4C26TB     | LinStatic | 0.000000   | 3.084E-20  | -0.004200 | -0.000101 | 0.001257   | 1.175E-20  |
| 68                         | 4C26TB     | LinStatic | 0.000000   | 3.832E-20  | -0.005409 | -0.000182 | 0.001121   | 0.000000   |
| 69                         | 4C26TB     | LinStatic | 0.000000   | 4.472E-20  | -0.006465 | -0.000259 | 0.000960   | 0.000000   |
| 70                         | 4C26TB     | LinStatic | 0.000000   | 5.005E-20  | -0.007349 | -0.000328 | 0.000785   | 0.000000   |
| 71                         | 4C26TB     | LinStatic | 0.000000   | 5.429E-20  | -0.008051 | -0.000388 | 0.000601   | 0.000000   |
| 72                         | 4C26TB     | LinStatic | 0.000000   | 5.737E-20  | -0.008564 | -0.000437 | 0.000407   | 0.000000   |
| 73                         | 4C26TB     | LinStatic | 0.000000   | 5.921E-20  | -0.008875 | -0.000476 | 0.000206   | 0.000000   |
| 74                         | 4C26TB     | LinStatic | 0.000000   | 5.977E-20  | -0.008979 | -0.000502 | 1.590E-06  | 0.000000   |
| 75                         | 4C26TB     | LinStatic | 0.000000   | 5.903E-20  | -0.008878 | -0.000516 | -0.000203  | 0.000000   |
| 76                         | 4C26TB     | LinStatic | 0.000000   | 5.697E-20  | -0.008569 | -0.000517 | -0.000405  | 0.000000   |
| 77                         | 4C26TB     | LinStatic | 0.000000   | 5.363E-20  | -0.008059 | -0.000507 | -0.000599  | 0.000000   |
| 78                         | 4C26TB     | LinStatic | -1.195E-20 | 4.904E-20  | -0.007359 | -0.000484 | -0.000784  | 0.000000   |
| 79                         | 4C26TB     | LinStatic | -1.470E-20 | 4.324E-20  | -0.006475 | -0.000451 | -0.000961  | 0.000000   |
| 80                         | 4C26TB     | LinStatic | -1.712E-20 | 3.629E-20  | -0.005417 | -0.000408 | -0.001124  | 0.000000   |
| 81                         | 4C26TB     | LinStatic | -1.916E-20 | 2.831E-20  | -0.004204 | -0.000355 | -0.001260  | 0.000000   |
| 82                         | 4C26TB     | LinStatic | -2.075E-20 | 1.945E-20  | -0.002871 | -0.000296 | -0.001360  | -1.018E-20 |
| 83                         | 4C26TB     | LinStatic | -2.184E-20 | 0.000000   | -0.001456 | -0.000234 | -0.001420  | -1.072E-20 |
| 84                         | 4C26TB     | LinStatic | -2.238E-20 | 0.000000   | 0.000000  | -0.000183 | -0.001440  | -1.102E-20 |
| 85                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | 0.000183  | 0.001440   | 1.128E-20  |
| 86                         | 4C26TB     | LinStatic | 0.000000   | 0.000000   | -0.001456 | 0.000234  | 0.001420   | 0.000000   |
| 87                         | 4C26TB     | LinStatic | 1.706E-20  | 1.390E-20  | -0.002871 | 0.000296  | 0.001360   | 0.000000   |
| 88                         | 4C26TB     | LinStatic | 2.216E-20  | 2.037E-20  | -0.004204 | 0.000355  | 0.001260   | 0.000000   |
| 89                         | 4C26TB     | LinStatic | 2.422E-20  | 2.694E-20  | -0.005417 | 0.000408  | 0.001124   | 0.000000   |
| 90                         | 4C26TB     | LinStatic | 2.371E-20  | 3.334E-20  | -0.006475 | 0.000451  | 0.000961   | 0.000000   |
| 91                         | 4C26TB     | LinStatic | 2.115E-20  | 3.925E-20  | -0.007359 | 0.000484  | 0.000784   | 0.000000   |
| 92                         | 4C26TB     | LinStatic | 1.703E-20  | 4.435E-20  | -0.008059 | 0.000507  | 0.000599   | 0.000000   |
| 93                         | 4C26TB     | LinStatic | 1.175E-20  | 4.842E-20  | -0.008569 | 0.000517  | 0.000405   | 0.000000   |
| 94                         | 4C26TB     | LinStatic | 0.000000   | 5.128E-20  | -0.008878 | 0.000516  | 0.000203   | 0.000000   |
| 95                         | 4C26TB     | LinStatic | 0.000000   | 5.284E-20  | -0.008979 | 0.000502  | -1.590E-06 | 0.000000   |
| 96                         | 4C26TB     | LinStatic | 0.000000   | 5.302E-20  | -0.008875 | 0.000476  | -0.000206  | 0.000000   |
| 97                         | 4C26TB     | LinStatic | -1.491E-20 | 5.182E-20  | -0.008564 | 0.000437  | -0.000407  | 0.000000   |
| 98                         | 4C26TB     | LinStatic | -2.174E-20 | 4.927E-20  | -0.008051 | 0.000388  | -0.000601  | 0.000000   |
| 99                         | 4C26TB     | LinStatic | -2.822E-20 | 4.543E-20  | -0.007349 | 0.000328  | -0.000785  | 0.000000   |
| 100                        | 4C26TB     | LinStatic | -3.414E-20 | 4.041E-20  | -0.006465 | 0.000259  | -0.000960  | 0.000000   |
| 101                        | 4C26TB     | LinStatic | -3.933E-20 | 3.430E-20  | -0.005409 | 0.000182  | -0.001121  | 0.000000   |
| 102                        | 4C26TB     | LinStatic | -4.364E-20 | 2.716E-20  | -0.004200 | 0.000101  | -0.001257  | 0.000000   |
| 103                        | 4C26TB     | LinStatic | -4.696E-20 | 1.898E-20  | -0.002868 | 0.000019  | -0.001359  | 0.000000   |
| 104                        | 4C26TB     | LinStatic | -4.918E-20 | 0.000000   | -0.001454 | -0.000058 | -0.001419  | 0.000000   |
| 105                        | 4C26TB     | LinStatic | -5.025E-20 | 0.000000   | 0.000000  | -0.000116 | -0.001439  | 0.000000   |
| 106                        | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | 0.000229  | 0.001156   | -1.653E-20 |
| 107                        | 4C26TB     | LinStatic | 4.105E-20  | 0.000000   | -0.001168 | 0.000381  | 0.001140   | -1.185E-20 |
| 108                        | 4C26TB     | LinStatic | 5.679E-20  | -1.006E-20 | -0.002303 | 0.000573  | 0.001090   | 0.000000   |
| 109                        | 4C26TB     | LinStatic | 6.042E-20  | 0.000000   | -0.003371 | 0.000764  | 0.001006   | 0.000000   |
| 110                        | 4C26TB     | LinStatic | 5.762E-20  | 0.000000   | -0.004337 | 0.000938  | 0.000894   | 0.000000   |
| 111                        | 4C26TB     | LinStatic | 5.114E-20  | 0.000000   | -0.005178 | 0.001086  | 0.000763   | 0.000000   |
| 112                        | 4C26TB     | LinStatic | 4.243E-20  | 0.000000   | -0.005879 | 0.001205  | 0.000622   | 0.000000   |
| 113                        | 4C26TB     | LinStatic | 3.228E-20  | 0.000000   | -0.006434 | 0.001295  | 0.000475   | 0.000000   |
| 114                        | 4C26TB     | LinStatic | 2.114E-20  | 0.000000   | -0.006838 | 0.001355  | 0.000320   | 0.000000   |
| 115                        | 4C26TB     | LinStatic | 0.000000   | 1.220E-20  | -0.007082 | 0.001385  | 0.000159   | 0.000000   |
| 116                        | 4C26TB     | LinStatic | 0.000000   | 1.437E-20  | -0.007161 | 0.001384  | -3.025E-06 | 0.000000   |
| 117                        | 4C26TB     | LinStatic | -1.512E-20 | 1.583E-20  | -0.007076 | 0.001352  | -0.000166  | 0.000000   |
| 118                        | 4C26TB     | LinStatic | -2.726E-20 | 1.657E-20  | -0.006826 | 0.001290  | -0.000326  | 0.000000   |
| 119                        | 4C26TB     | LinStatic | -3.901E-20 | 1.661E-20  | -0.006418 | 0.001199  | -0.000479  | 0.000000   |
| 120                        | 4C26TB     | LinStatic | -5.016E-20 | 1.602E-20  | -0.005859 | 0.001079  | -0.000625  | 0.000000   |
| 121                        | 4C26TB     | LinStatic | -6.051E-20 | 1.498E-20  | -0.005156 | 0.000931  | -0.000765  | 0.000000   |
| 122                        | 4C26TB     | LinStatic | -6.969E-20 | 1.370E-20  | -0.004313 | 0.000758  | -0.000895  | 0.000000   |

| Table: Joint Displacements |            |           |            |            |           |           |            |            |
|----------------------------|------------|-----------|------------|------------|-----------|-----------|------------|------------|
| Joint                      | OutputCase | CaseType  | U1         | U2         | U3        | R1        | R2         | R3         |
|                            |            |           | m          | m          | m         | Radians   | Radians    | Radians    |
| 123                        | 4C26TB     | LinStatic | -7.727E-20 | 1.214E-20  | -0.003346 | 0.000562  | -0.001004  | 0.000000   |
| 124                        | 4C26TB     | LinStatic | -8.289E-20 | 0.000000   | -0.002284 | 0.000353  | -0.001083  | 0.000000   |
| 125                        | 4C26TB     | LinStatic | -8.639E-20 | 0.000000   | -0.001157 | 0.000149  | -0.001130  | 0.000000   |
| 126                        | 4C26TB     | LinStatic | -8.790E-20 | 0.000000   | 0.000000  | -0.000010 | -0.001145  | 0.000000   |
| 127                        | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | 0.000192  | 0.000649   | 3.091E-20  |
| 128                        | 4C26TB     | LinStatic | -4.636E-20 | 4.910E-20  | -0.000656 | 0.000384  | 0.000640   | 3.321E-20  |
| 129                        | 4C26TB     | LinStatic | -6.414E-20 | 9.447E-20  | -0.001293 | 0.000626  | 0.000614   | 3.347E-20  |
| 130                        | 4C26TB     | LinStatic | -6.851E-20 | 1.364E-19  | -0.001896 | 0.000868  | 0.000572   | 3.205E-20  |
| 131                        | 4C26TB     | LinStatic | -6.586E-20 | 1.742E-19  | -0.002449 | 0.001090  | 0.000516   | 2.928E-20  |
| 132                        | 4C26TB     | LinStatic | -5.913E-20 | 2.072E-19  | -0.002938 | 0.001281  | 0.000447   | 2.549E-20  |
| 133                        | 4C26TB     | LinStatic | -4.983E-20 | 2.347E-19  | -0.003353 | 0.001439  | 0.000369   | 2.097E-20  |
| 134                        | 4C26TB     | LinStatic | -3.877E-20 | 2.563E-19  | -0.003684 | 0.001560  | 0.000282   | 1.593E-20  |
| 135                        | 4C26TB     | LinStatic | -2.650E-20 | 2.717E-19  | -0.003924 | 0.001645  | 0.000190   | 1.049E-20  |
| 136                        | 4C26TB     | LinStatic | -1.343E-20 | 2.807E-19  | -0.004068 | 0.001692  | 0.000094   | 0.000000   |
| 137                        | 4C26TB     | LinStatic | 0.000000   | 2.831E-19  | -0.004113 | 0.001701  | -4.213E-06 | 0.000000   |
| 138                        | 4C26TB     | LinStatic | 1.361E-20  | 2.789E-19  | -0.004059 | 0.001671  | -0.000102  | 0.000000   |
| 139                        | 4C26TB     | LinStatic | 2.691E-20  | 2.681E-19  | -0.003907 | 0.001604  | -0.000197  | -1.290E-20 |
| 140                        | 4C26TB     | LinStatic | 3.963E-20  | 2.509E-19  | -0.003661 | 0.001499  | -0.000288  | -1.857E-20 |
| 141                        | 4C26TB     | LinStatic | 5.151E-20  | 2.276E-19  | -0.003325 | 0.001359  | -0.000373  | -2.396E-20 |
| 142                        | 4C26TB     | LinStatic | 6.227E-20  | 1.986E-19  | -0.002907 | 0.001185  | -0.000449  | -2.899E-20 |
| 143                        | 4C26TB     | LinStatic | 7.162E-20  | 1.642E-19  | -0.002418 | 0.000979  | -0.000514  | -3.346E-20 |
| 144                        | 4C26TB     | LinStatic | 7.924E-20  | 1.254E-19  | -0.001868 | 0.000746  | -0.000567  | -3.710E-20 |
| 145                        | 4C26TB     | LinStatic | 8.485E-20  | 8.364E-20  | -0.001272 | 0.000497  | -0.000606  | -3.966E-20 |
| 146                        | 4C26TB     | LinStatic | 8.829E-20  | 4.088E-20  | -0.000644 | 0.000251  | -0.000629  | -4.101E-20 |
| 147                        | 4C26TB     | LinStatic | 8.959E-20  | 0.000000   | 0.000000  | 0.000059  | -0.000637  | -4.147E-20 |
| 148                        | 4C26TB     | LinStatic | 0.000000   | 0.000000   | 0.000000  | 0.000156  | 0.000152   | -1.330E-20 |
| 149                        | 4C26TB     | LinStatic | 0.000000   | -1.637E-20 | -0.000152 | 0.000329  | 0.000150   | -1.674E-20 |
| 150                        | 4C26TB     | LinStatic | 0.000000   | -3.349E-20 | -0.000301 | 0.000552  | 0.000145   | -1.858E-20 |
| 151                        | 4C26TB     | LinStatic | 0.000000   | -5.037E-20 | -0.000444 | 0.000779  | 0.000136   | -1.858E-20 |
| 152                        | 4C26TB     | LinStatic | 0.000000   | -6.596E-20 | -0.000576 | 0.000992  | 0.000125   | -1.728E-20 |
| 153                        | 4C26TB     | LinStatic | 0.000000   | -7.959E-20 | -0.000695 | 0.001183  | 0.000110   | -1.516E-20 |
| 154                        | 4C26TB     | LinStatic | 0.000000   | -9.086E-20 | -0.000797 | 0.001344  | 0.000092   | -1.257E-20 |
| 155                        | 4C26TB     | LinStatic | 0.000000   | -9.955E-20 | -0.000880 | 0.001472  | 0.000071   | 0.000000   |
| 156                        | 4C26TB     | LinStatic | 0.000000   | -1.055E-19 | -0.000941 | 0.001563  | 0.000049   | 0.000000   |
| 157                        | 4C26TB     | LinStatic | 0.000000   | -1.088E-19 | -0.000978 | 0.001615  | 0.000025   | 0.000000   |
| 158                        | 4C26TB     | LinStatic | 0.000000   | -1.093E-19 | -0.000991 | 0.001628  | -4.902E-08 | 0.000000   |
| 159                        | 4C26TB     | LinStatic | 0.000000   | -1.071E-19 | -0.000978 | 0.001601  | -0.000025  | 0.000000   |
| 160                        | 4C26TB     | LinStatic | 0.000000   | -1.023E-19 | -0.000941 | 0.001535  | -0.000049  | 0.000000   |
| 161                        | 4C26TB     | LinStatic | 0.000000   | -9.520E-20 | -0.000880 | 0.001431  | -0.000071  | 0.000000   |
| 162                        | 4C26TB     | LinStatic | 1.026E-20  | -8.590E-20 | -0.000797 | 0.001293  | -0.000092  | 0.000000   |
| 163                        | 4C26TB     | LinStatic | 1.254E-20  | -7.469E-20 | -0.000695 | 0.001123  | -0.000110  | 1.181E-20  |
| 164                        | 4C26TB     | LinStatic | 1.468E-20  | -6.187E-20 | -0.000576 | 0.000927  | -0.000125  | 1.360E-20  |
| 165                        | 4C26TB     | LinStatic | 1.655E-20  | -4.767E-20 | -0.000443 | 0.000712  | -0.000137  | 1.512E-20  |
| 166                        | 4C26TB     | LinStatic | 1.808E-20  | -3.235E-20 | -0.000301 | 0.000485  | -0.000145  | 1.635E-20  |
| 167                        | 4C26TB     | LinStatic | 1.922E-20  | -1.624E-20 | -0.000152 | 0.000266  | -0.000149  | 1.727E-20  |
| 168                        | 4C26TB     | LinStatic | 1.998E-20  | 0.000000   | 0.000000  | 0.000096  | -0.000151  | 1.787E-20  |

Table: Modal Load Participation Ratios

| Table: Modal Load Participation Ratios |              |      |                |                 |
|----------------------------------------|--------------|------|----------------|-----------------|
| OutputCase                             | ItemType     | Item | Static Percent | Dynamic Percent |
| MODAL                                  | Acceleration | UX   | 0.0000         | 0.0000          |
| MODAL                                  | Acceleration | UY   | 0.0000         | 0.0000          |
| MODAL                                  | Acceleration | UZ   | 99.8550        | 84.9725         |

Table: Modal Participating Mass Ratios, Part 1 of 3

| Table: Modal Participating Mass Ratios, Part 1 of 3 |          |           |            |          |          |           |          |          |
|-----------------------------------------------------|----------|-----------|------------|----------|----------|-----------|----------|----------|
| OutputCase                                          | StepType | StepNum   | Period Sec | UX       | UY       | UZ        | SumUX    | SumUY    |
| MODAL                                               | Mode     | 1.000000  | 0.261762   | 0.000000 | 0.000000 | 0.847003  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 2.000000  | 0.254976   | 0.000000 | 0.000000 | 0.000000  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 3.000000  | 0.210943   | 0.000000 | 0.000000 | 0.002717  | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 4.000000  | 0.137350   | 0.000000 | 0.000000 | 1.035E-20 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 5.000000  | 0.083070   | 0.000000 | 0.000000 | 3.373E-06 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 6.000000  | 0.066223   | 0.000000 | 0.000000 | 1.902E-18 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 7.000000  | 0.066141   | 0.000000 | 0.000000 | 2.726E-07 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 8.000000  | 0.063390   | 0.000000 | 0.000000 | 7.607E-18 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 9.000000  | 0.058274   | 0.000000 | 0.000000 | 1.247E-07 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 10.000000 | 0.053246   | 0.000000 | 0.000000 | 1.737E-19 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 11.000000 | 0.049709   | 0.000000 | 0.000000 | 6.287E-18 | 0.000000 | 0.000000 |
| MODAL                                               | Mode     | 12.000000 | 0.039914   | 0.000000 | 0.000000 | 1.752E-07 | 0.000000 | 0.000000 |

Table: Modal Participating Mass Ratios, Part 2 of 3

| Table: Modal Participating Mass Ratios, Part 2 of 3 |          |           |          |           |           |          |          |          |
|-----------------------------------------------------|----------|-----------|----------|-----------|-----------|----------|----------|----------|
| OutputCase                                          | StepType | StepNum   | SumUZ    | RX        | RY        | RZ       | SumRX    | SumRY    |
| MODAL                                               | Mode     | 1.000000  | 0.847003 | 0.592902  | 0.669946  | 0.000000 | 0.592902 | 0.669946 |
| MODAL                                               | Mode     | 2.000000  | 0.847003 | 0.254907  | 0.001227  | 0.000000 | 0.847809 | 0.671173 |
| MODAL                                               | Mode     | 3.000000  | 0.849721 | 0.001902  | 0.002149  | 0.000000 | 0.849711 | 0.673323 |
| MODAL                                               | Mode     | 4.000000  | 0.849721 | 0.000028  | 5.896E-07 | 0.000000 | 0.849740 | 0.673323 |
| MODAL                                               | Mode     | 5.000000  | 0.849724 | 2.361E-06 | 2.667E-06 | 0.000000 | 0.849742 | 0.673326 |
| MODAL                                               | Mode     | 6.000000  | 0.849724 | 5.098E-08 | 0.126607  | 0.000000 | 0.849742 | 0.799932 |
| MODAL                                               | Mode     | 7.000000  | 0.849724 | 1.908E-07 | 2.156E-07 | 0.000000 | 0.849742 | 0.799933 |
| MODAL                                               | Mode     | 8.000000  | 0.849724 | 7.447E-07 | 0.018490  | 0.000000 | 0.849743 | 0.818423 |
| MODAL                                               | Mode     | 9.000000  | 0.849724 | 8.727E-08 | 9.861E-08 | 0.000000 | 0.849743 | 0.818423 |
| MODAL                                               | Mode     | 10.000000 | 0.849724 | 2.300E-07 | 7.337E-07 | 0.000000 | 0.849743 | 0.818424 |
| MODAL                                               | Mode     | 11.000000 | 0.849724 | 4.027E-07 | 0.000077  | 0.000000 | 0.849744 | 0.818501 |
| MODAL                                               | Mode     | 12.000000 | 0.849725 | 1.226E-07 | 1.386E-07 | 0.000000 | 0.849744 | 0.818501 |

Table: Modal Participating Mass Ratios, Part 3 of 3

| Table: Modal Participating Mass Ratios, Part 3 of 3 |          |          |          |
|-----------------------------------------------------|----------|----------|----------|
| OutputCase                                          | StepType | StepNum  | SumRZ    |
| MODAL                                               | Mode     | 1.000000 | 0.000000 |
| MODAL                                               | Mode     | 2.000000 | 0.000000 |
| MODAL                                               | Mode     | 3.000000 | 0.000000 |
| MODAL                                               | Mode     | 4.000000 | 0.000000 |
| MODAL                                               | Mode     | 5.000000 | 0.000000 |
| MODAL                                               | Mode     | 6.000000 | 0.000000 |
| MODAL                                               | Mode     | 7.000000 | 0.000000 |
| MODAL                                               | Mode     | 8.000000 | 0.000000 |

Table: Modal Participating Mass Ratios, Part 3 of 3

| OutputCase | StepType | StepNum   | SumRZ    |
|------------|----------|-----------|----------|
| MODAL      | Mode     | 9.000000  | 0.000000 |
| MODAL      | Mode     | 10.000000 | 0.000000 |
| MODAL      | Mode     | 11.000000 | 0.000000 |
| MODAL      | Mode     | 12.000000 | 0.000000 |

Table: Modal Participation Factors, Part 1 of 2

| Table: Modal Participation Factors, Part 1 of 2 |          |           |            |            |            |            |              |              |  |
|-------------------------------------------------|----------|-----------|------------|------------|------------|------------|--------------|--------------|--|
| OutputCase                                      | StepType | StepNum   | Period Sec | UX Tonf-s2 | UY Tonf-s2 | UZ Tonf-s2 | RX Tonf-m-s2 | RY Tonf-m-s2 |  |
| MODAL                                           | Mode     | 1.000000  | 0.261762   | 0.000000   | 0.000000   | 6.089205   | 39.580194    | -65.732631   |  |
| MODAL                                           | Mode     | 2.000000  | 0.254976   | 0.000000   | 0.000000   | 4.456E-10  | -25.952381   | 2.813033     |  |
| MODAL                                           | Mode     | 3.000000  | 0.210943   | 0.000000   | 0.000000   | -0.344901  | -2.241874    | 3.723182     |  |
| MODAL                                           | Mode     | 4.000000  | 0.137350   | 0.000000   | 0.000000   | 6.732E-10  | 0.272794     | -0.061663    |  |
| MODAL                                           | Mode     | 5.000000  | 0.083070   | 0.000000   | 0.000000   | 0.012150   | 0.078979     | -0.131163    |  |
| MODAL                                           | Mode     | 6.000000  | 0.066223   | 0.000000   | 0.000000   | 9.125E-09  | 0.011606     | 28.575186    |  |
| MODAL                                           | Mode     | 7.000000  | 0.066141   | 0.000000   | 0.000000   | 0.003455   | 0.022455     | -0.037293    |  |
| MODAL                                           | Mode     | 8.000000  | 0.063390   | 0.000000   | 0.000000   | -1.825E-08 | -0.044359    | -10.920288   |  |
| MODAL                                           | Mode     | 9.000000  | 0.058274   | 0.000000   | 0.000000   | 0.002336   | 0.015185     | -0.025219    |  |
| MODAL                                           | Mode     | 10.000000 | 0.053246   | 0.000000   | 0.000000   | -2.757E-09 | -0.024650    | -0.068788    |  |
| MODAL                                           | Mode     | 11.000000 | 0.049709   | 0.000000   | 0.000000   | 1.659E-08  | -0.032617    | -0.706801    |  |
| MODAL                                           | Mode     | 12.000000 | 0.039914   | 0.000000   | 0.000000   | -0.002769  | -0.018000    | 0.029893     |  |

Table: Modal Participation Factors, Part 2 of 2

| Table: Modal Participation Factors, Part 2 of 2 |          |           |              |                     |                   |
|-------------------------------------------------|----------|-----------|--------------|---------------------|-------------------|
| OutputCase                                      | StepType | StepNum   | RZ Tonf-m-s2 | ModalMass Tonf-m-s2 | ModalStiff Tonf-m |
| MODAL                                           | Mode     | 1.000000  | 0.000000     | 1.0000              | 576.164933        |
| MODAL                                           | Mode     | 2.000000  | 0.000000     | 1.0000              | 607.240567        |
| MODAL                                           | Mode     | 3.000000  | 0.000000     | 1.0000              | 887.218160        |
| MODAL                                           | Mode     | 4.000000  | 0.000000     | 1.0000              | 2092.668102       |
| MODAL                                           | Mode     | 5.000000  | 0.000000     | 1.0000              | 5720.999772       |
| MODAL                                           | Mode     | 6.000000  | 0.000000     | 1.0000              | 9001.961828       |
| MODAL                                           | Mode     | 7.000000  | 0.000000     | 1.0000              | 9024.480156       |
| MODAL                                           | Mode     | 8.000000  | 0.000000     | 1.0000              | 9824.819659       |
| MODAL                                           | Mode     | 9.000000  | 0.000000     | 1.0000              | 11625.39550       |
| MODAL                                           | Mode     | 10.000000 | 0.000000     | 1.0000              | 13924.62065       |
| MODAL                                           | Mode     | 11.000000 | 0.000000     | 1.0000              | 15976.74790       |
| MODAL                                           | Mode     | 12.000000 | 0.000000     | 1.0000              | 24780.20623       |

Table: Modal Periods And Frequencies

| Table: Modal Periods And Frequencies |          |           |            |                   |                  |                      |
|--------------------------------------|----------|-----------|------------|-------------------|------------------|----------------------|
| OutputCase                           | StepType | StepNum   | Period Sec | Frequency Cyc/sec | CircFreq rad/sec | Eigenvalue rad2/sec2 |
| MODAL                                | Mode     | 1.000000  | 0.261762   | 3.8203E+00        | 2.4003E+01       | 5.7616E+02           |
| MODAL                                | Mode     | 2.000000  | 0.254976   | 3.9219E+00        | 2.4642E+01       | 6.0724E+02           |
| MODAL                                | Mode     | 3.000000  | 0.210943   | 4.7406E+00        | 2.9786E+01       | 8.8722E+02           |
| MODAL                                | Mode     | 4.000000  | 0.137350   | 7.2807E+00        | 4.5746E+01       | 2.0927E+03           |
| MODAL                                | Mode     | 5.000000  | 0.083070   | 1.2038E+01        | 7.5637E+01       | 5.7210E+03           |
| MODAL                                | Mode     | 6.000000  | 0.066223   | 1.5100E+01        | 9.4879E+01       | 9.0020E+03           |
| MODAL                                | Mode     | 7.000000  | 0.066141   | 1.5119E+01        | 9.4997E+01       | 9.0245E+03           |
| MODAL                                | Mode     | 8.000000  | 0.063390   | 1.5775E+01        | 9.9120E+01       | 9.8248E+03           |
| MODAL                                | Mode     | 9.000000  | 0.058274   | 1.7160E+01        | 1.0782E+02       | 1.1625E+04           |
| MODAL                                | Mode     | 10.000000 | 0.053246   | 1.8781E+01        | 1.1800E+02       | 1.3925E+04           |
| MODAL                                | Mode     | 11.000000 | 0.049709   | 2.0117E+01        | 1.2640E+02       | 1.5977E+04           |
| MODAL                                | Mode     | 12.000000 | 0.039914   | 2.5054E+01        | 1.5742E+02       | 2.4780E+04           |

### **ANEJO III. – ANÁLISIS DEL PROYECTO DE LA ESTRUCTURA**

## **ANÁLISIS DEL PROYECTO DE LA ESTRUCTURA**

La documentación facilitada es del Apéndice 2 del Proyecto Constructivo (Modificación nº1) de Supresión de los Pasos a Nivel de las Líneas Madrid – Barcelona, P.K. 327/514 Y Zaragoza – Alsasua, P.K. 15/717, En Casetas (Zaragoza). También se dispone del proyecto original, proporcionado por la UTE CASETAS, que recoge el Cálculo del Tablero de vigas del Paso Superior PS-02.

Basándose en esta documentación se ha realizado una evaluación de la situación estructural del Viaducto.

### **Datos estructurales generales**

El Paso Superior PS-02 consiste en una estructura compuesta por tres vanos isostáticos de luces 16,30 m – 20,90 m – 16,30 m entre ejes de apoyo siendo la longitud total del puente de 53,50 metros. Se trata de una estructura esviada, con un esviaje de 6,803°. La sección superior está formada por dos carriles de 3,50 metros de anchura, dos arcones de 0,50 metros, dos aceras de 2,50 metros y dos barandillas de 0,50 metros.

La sección transversal del tablero estará formada por 8 vigas prefabricadas pretensadas con sección tipo de doble T y un canto de 0,90 metros. Sobre ellas y siendo la cabeza de compresión de las mismas, se dispone una losa de hormigón armado con un espesor mínimo de 0,20 metros, con una anchura de 14,00 metros.

El dintel está soportado por tres pilas circulares de 1,00 metros de diámetro, con cimentación profunda mediante tres pilotes circulares de 1,25 metros de diámetros y 25 metros de longitud.

Los estribos serán cerrados con muros en vuelta. La altura de los muros estará entorno a 8,75 metros para el estribo 1 y entorno a 7,57 metros para el estribo 2. Se cimentarán mediante pilotes y encepado.

### **Planos de la estructura:**

- Planta, alzado y sección.
- Estribo 1: Definición geométrica.

- Estribo 1: Armadura.
- Estribo 1: Muro y aleta.
- Estribo 2: Definición geométrica.
- Estribo 2: Armadura.
- Estribo 2: Muro y aleta.
- Plano de Pilas.
- Plano de Replanteo.

**Materiales empleados:**

- HORMIGONES
  - Pilas y estribos: HA 30/B/20/IIb
  - Cimentaciones: HA 30/B/20/IIa+Qb
  - Vigas: HP 45/F/18/II
  - Losa de compresión: HA 25/F/20/II
- ACEROS
  - Acero pasivo: B 500 S
  - Acero activo: Y 1860 S7
- COEFICIENTES DE SEGURIDAD ADOPTADOS
  - Mayoración de resistencia del hormigón:  $\gamma_c=1.50$
  - Mayoración de resistencia del acero:  $\gamma_s=1.15$

**Cargas consideradas:**

Las acciones que se contemplan en el cálculo son:

1. ACCIONES PERMANENTES

- Peso propio del hormigón.
- Peso propio del pavimento.
- Peso de la barrera.

2. ACCIONES PERMANENTES DE VALOR NO CONSTANTE

- Peso del terreno.
- Empuje del terreno.
- Pretensado.
- Fluencia.
- Retracción.

3. ACCIONES VARIABLES

- Sobrecargas de uso.
- Carro.
- Frenado.
- Fuerza centrífuga.
- Sobrecarga en terrenos adyacentes al puente.

4. ACCIONES CLIMÁTICAS

- Viento.
- Variación uniforme de temperatura.
- Gradiente térmico.

5. ACCIONES ACCIDENTALES

- Acciones sísmicas.

**Normativa utilizada:**

Para la realización del cálculo de la estructura se han considerado las siguientes Normativas:

- MOPU (1999), "Instrucción de hormigón estructural (EHE-99)", real Decreto 2661/1998.
- MFOM (1998), "Instrumentación sobre las acciones a considerar en el proyecto de puentes de carretera (IAP-98)", Orden de 12 de Febrero de 1998.
- MFOM (2007), "Norma de construcción sismorresistente: Puentes. NCSP-07", Real Decreto 637/2007.
- NCSE-07

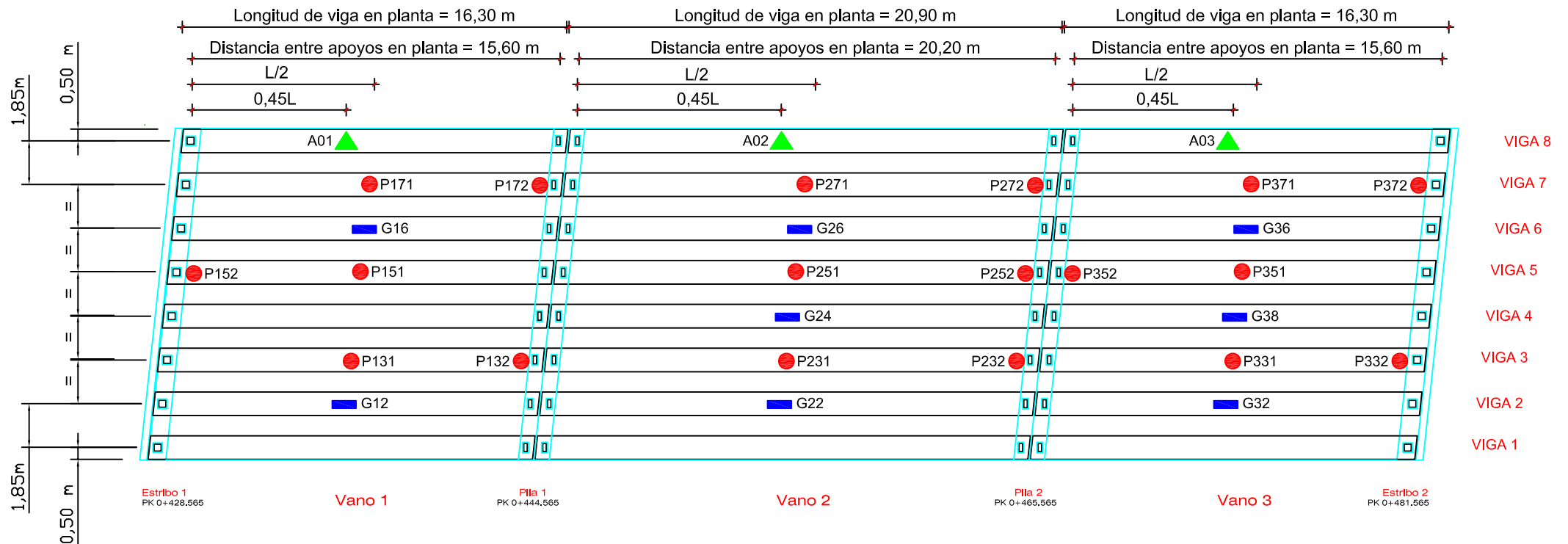
Finalmente, en el Proyecto de Prueba de Carga se discretizó la estructura mediante un modelo bidimensional, formado por elementos de barra unidimensionales, y se obtuvo el momento flector de cálculo en las secciones más desfavorables de la estructura, como comprobación y verificación sencilla de la validez de las solicitaciones de partida para el dimensionamiento estructural adoptado en el Proyecto de Construcción.

**ANEJO IV. – SITUACIÓN DE LAS CARGAS Y DE LOS PUNTOS DE  
MEDIDA.**

## CROQUIS DE INSTRUMENTACIÓN



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PASO SUPERIOR PS-02

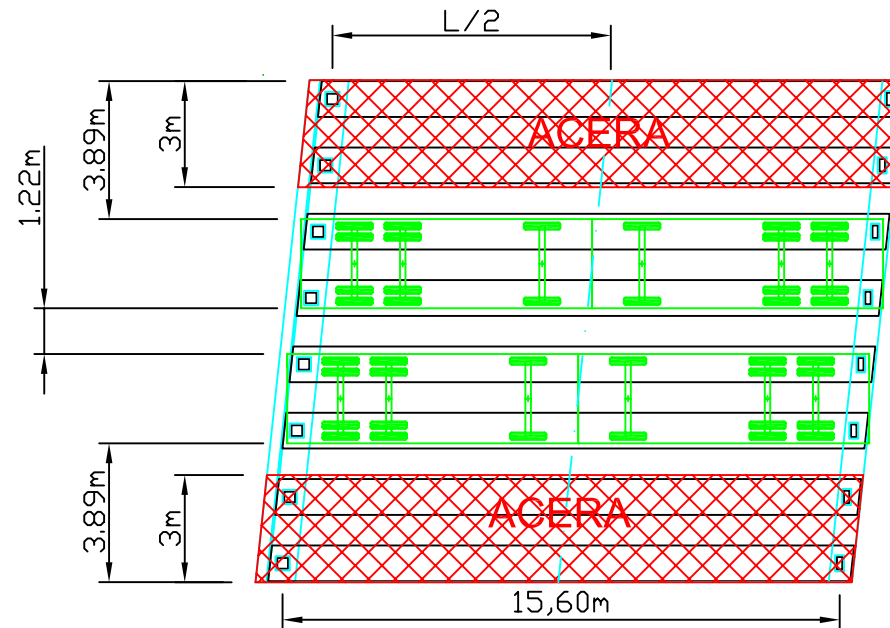
### LEYENDA:

- TRANSDUCTOR DE DESPLAZAMIENTO
- GALGAS EXTENSOMÉTRICAS
- ▲ ACELERÓMETRO

## POSICIÓN EN PLANTA PRUEBA ESTÁTICA

ESTÁTICA 01

ALSASUA

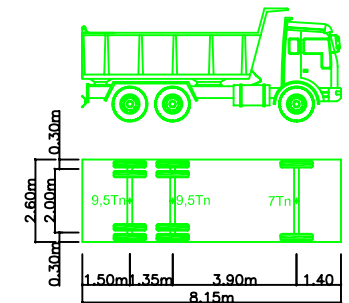


ZARAGOZA



PASO SUPERIOR PS-02

CAMIÓN ARTICULADO 3 EJES (26T)

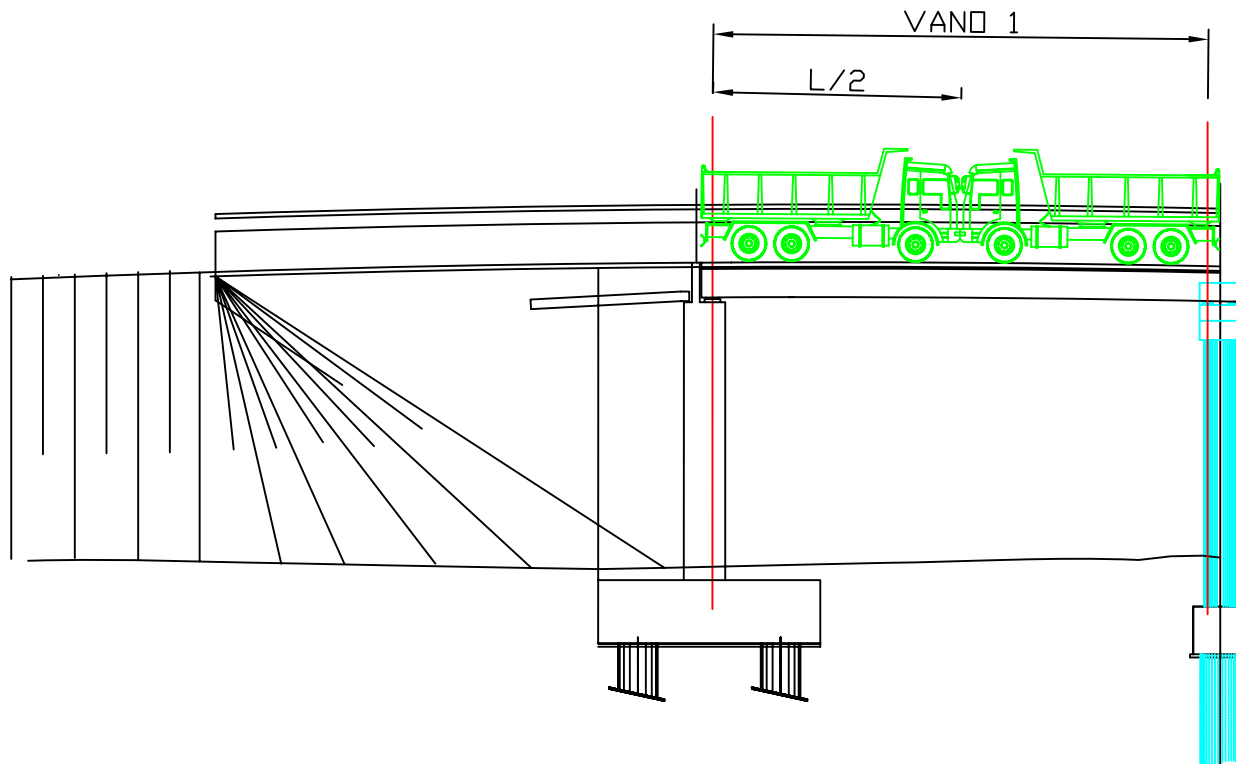


PRUEBAS DINÁMICAS.-

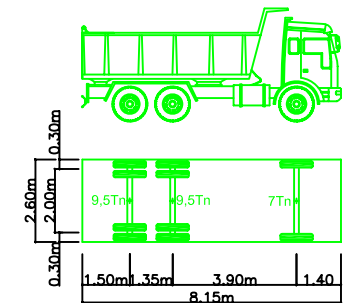
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# POSICIÓN EN ALZADO PRUEBA ESTÁTICA

## ESTÁTICA 01



CAMIÓN ARTICULADO 3 EJES (26T)



### PRUEBAS DINAMICAS.-

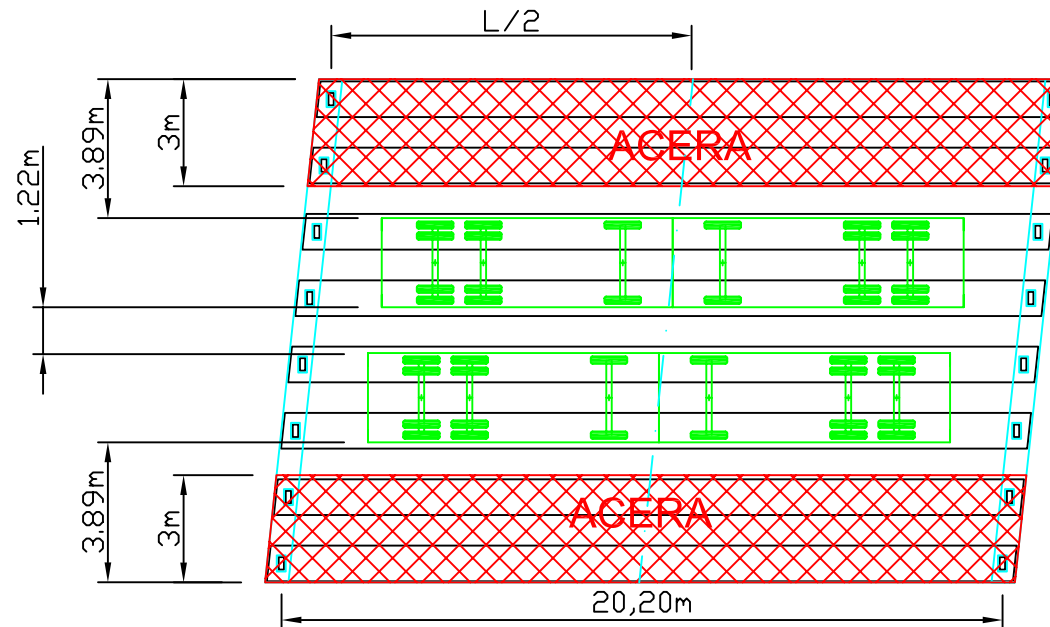
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PASO SUPERIOR PS-02

## POSICIÓN EN PLANTA PRUEBA ESTÁTICA

ESTÁTICA 02

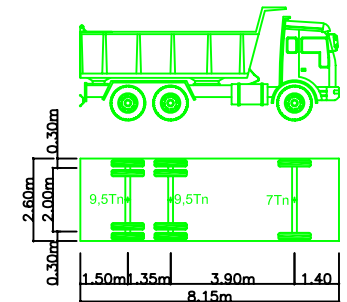
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PASO SUPERIOR PS-02

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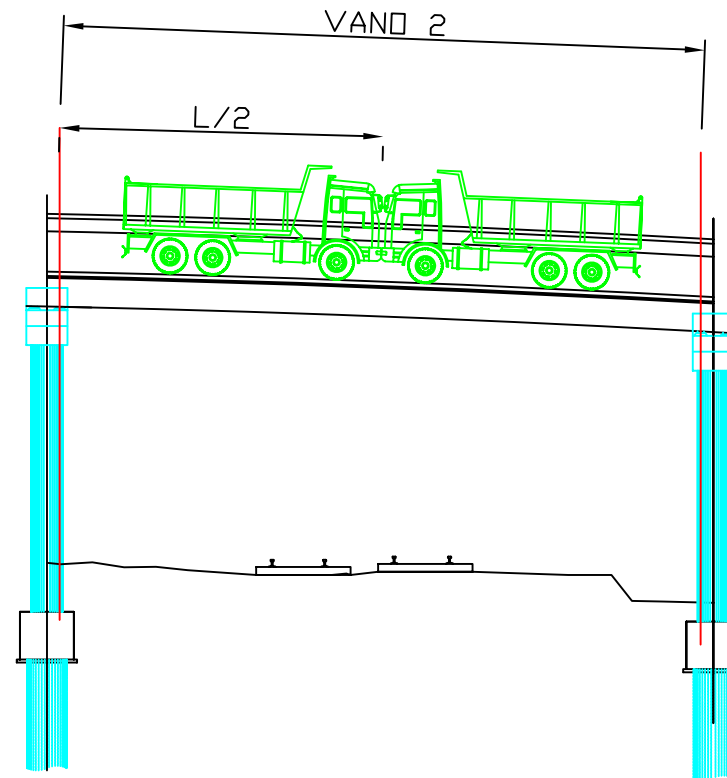


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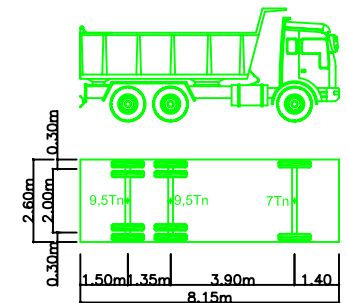
## POSICIÓN EN ALZADO PRUEBA ESTÁTICA

### ESTÁTICA 02



### PASO SUPERIOR PS-02

#### CAMIÓN ARTICULADO 3 EJES (26T)



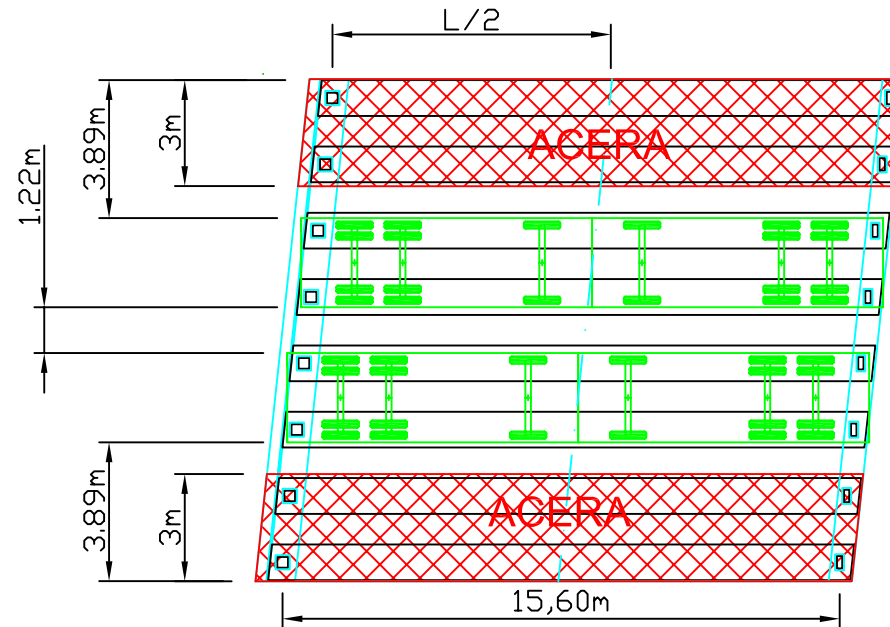
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## POSICIÓN EN PLANTA PRUEBA ESTÁTICA

ESTÁTICA 03

ALSASUA

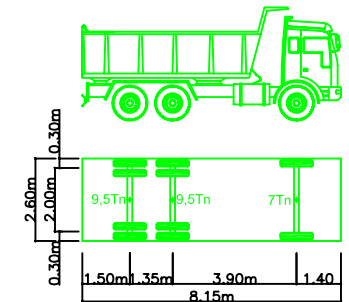


ZARAGOZA



PASO SUPERIOR PS-02

CAMIÓN ARTICULADO 3 EJES (26T)

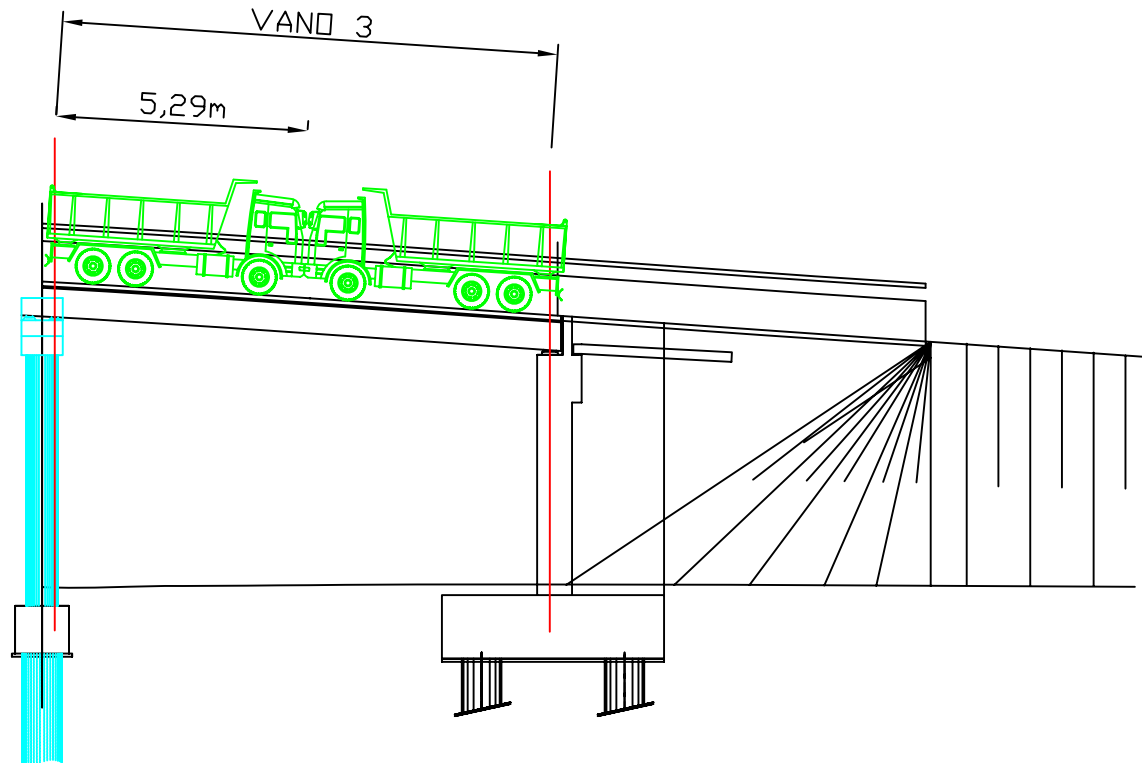


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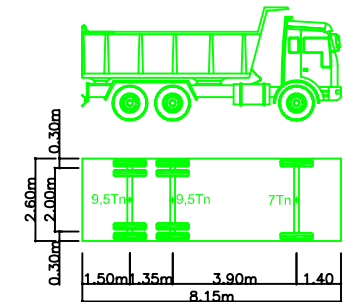
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## POSICIÓN EN ALZADO PRUEBA ESTÁTICA

### ESTÁTICA 03



CAMIÓN ARTICULADO 3 EJES (26T)



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PASO SUPERIOR PS-02

## **ANEJO V. – REPORTAJE FOTOGRÁFICO.**



FOTOGRAFÍA N° 1: Alzado derecho.



FOTOGRAFÍA N° 2: Alzado izquierdo.



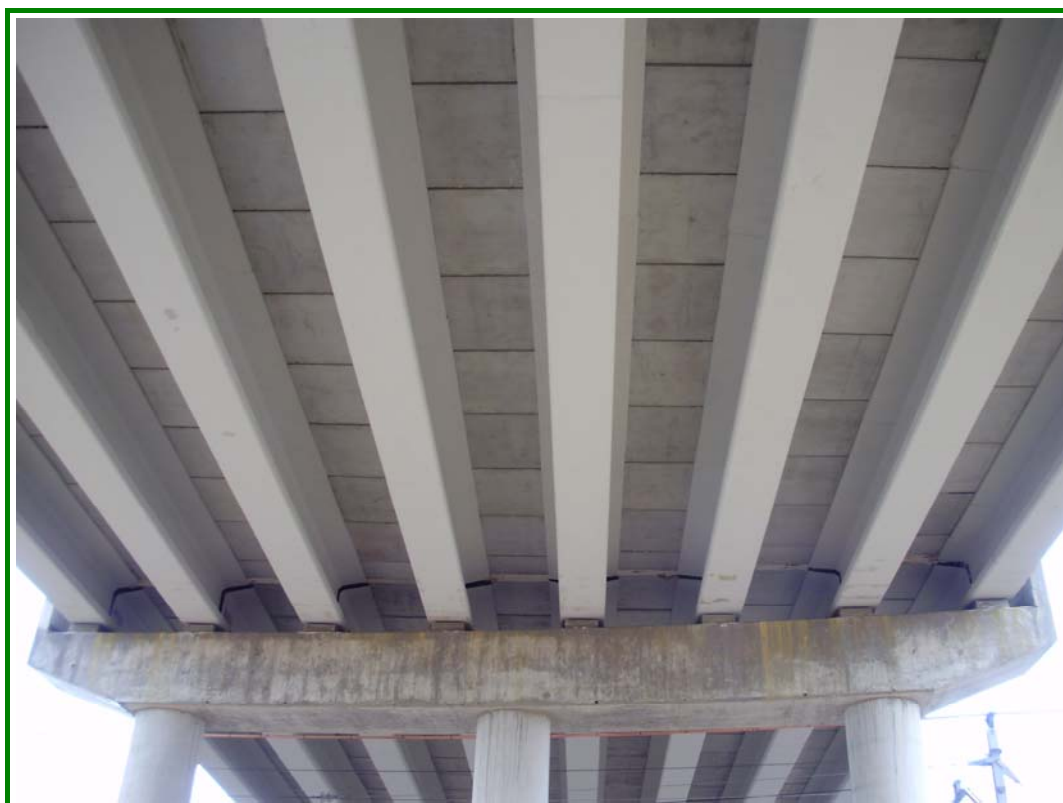
FOTOGRAFÍA Nº 3: Alzado izquierdo del vano 1.



FOTOGRAFÍA Nº 4: Alzado izquierdo del vano 2.



FOTOGRAFÍA N° 5: Alzado izquierdo del vano 3.



FOTOGRAFÍA N° 6: Vista inferior del tablero.



FOTOGRAFÍA N° 7: Vista superior desde estribo de entrada.



FOTOGRAFÍA N° 8: Vista superior desde estribo de salida.



FOTOGRAFÍA N° 9: Detalle de estribo de entrada.



FOTOGRAFÍA N° 10: Detalle de estribo de salida.



FOTOGRAFÍA N° 11: Detalle de pila 1.



FOTOGRAFÍA N° 12: Detalle de pila 2.



FOTOGRAFÍA N° 13: Detalle de apoyos.



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## **ANEJO 3: ESQUEMA DE INSTRUMENTACIÓN Y TREN DE CARGAS**

Madrid, Febrero de 2010

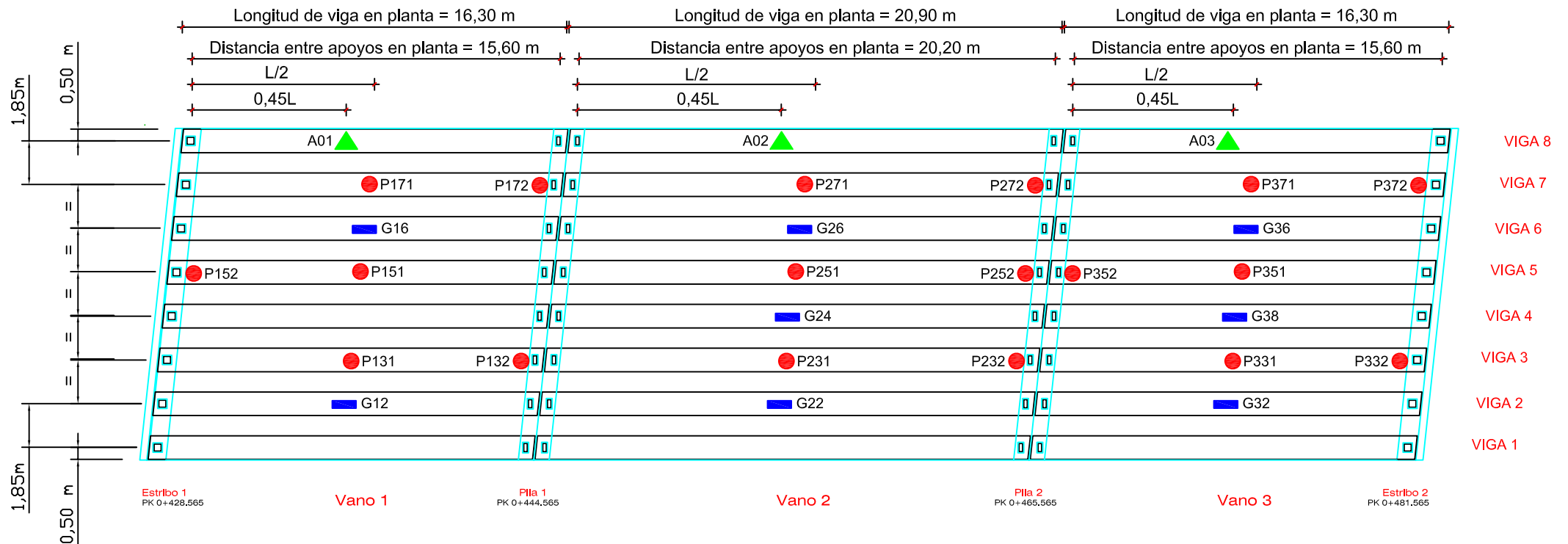
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## CROQUIS DE INSTRUMENTACIÓN



ALSASUA



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PASO SUPERIOR PS-02

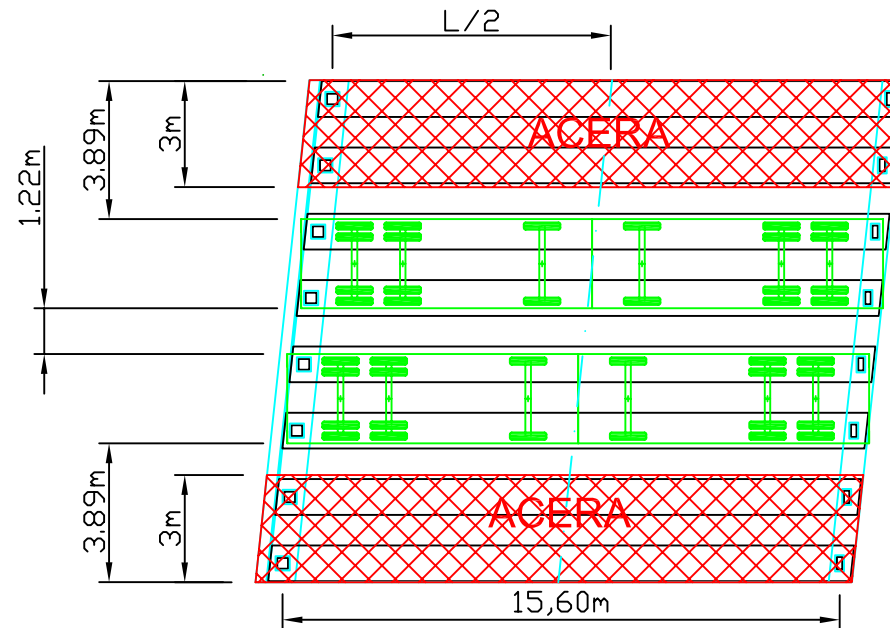
### LEYENDA:

- TRANSDUCTOR DE DESPLAZAMIENTO
- GALGAS EXTENSOMÉTRICAS
- ▲ ACELERÓMETRO

## POSICIÓN EN PLANTA PRUEBA ESTÁTICA

ESTÁTICA 01

ALSASUA

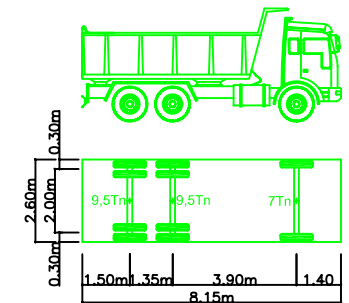


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PASO SUPERIOR PS-02

CAMIÓN ARTICULADO 3 EJES (26T)

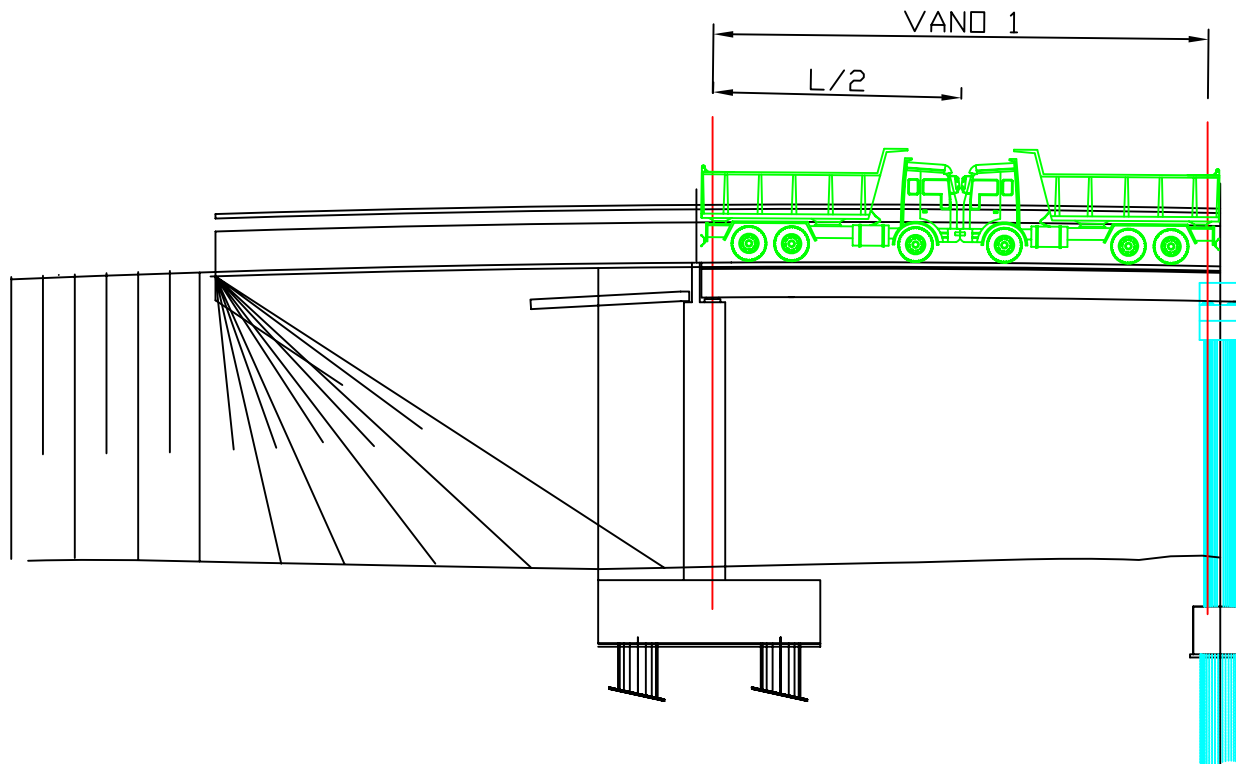


PRUEBAS DINÁMICAS.-

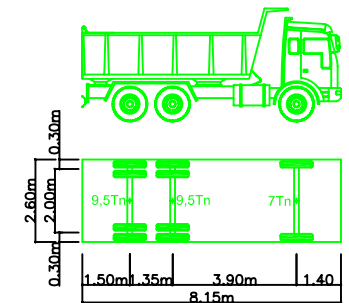
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# POSICIÓN EN ALZADO PRUEBA ESTÁTICA

## ESTÁTICA 01



**CAMIÓN ARTICULADO 3 EJES (26T)**



### **PRUEBAS DINAMICAS.-**

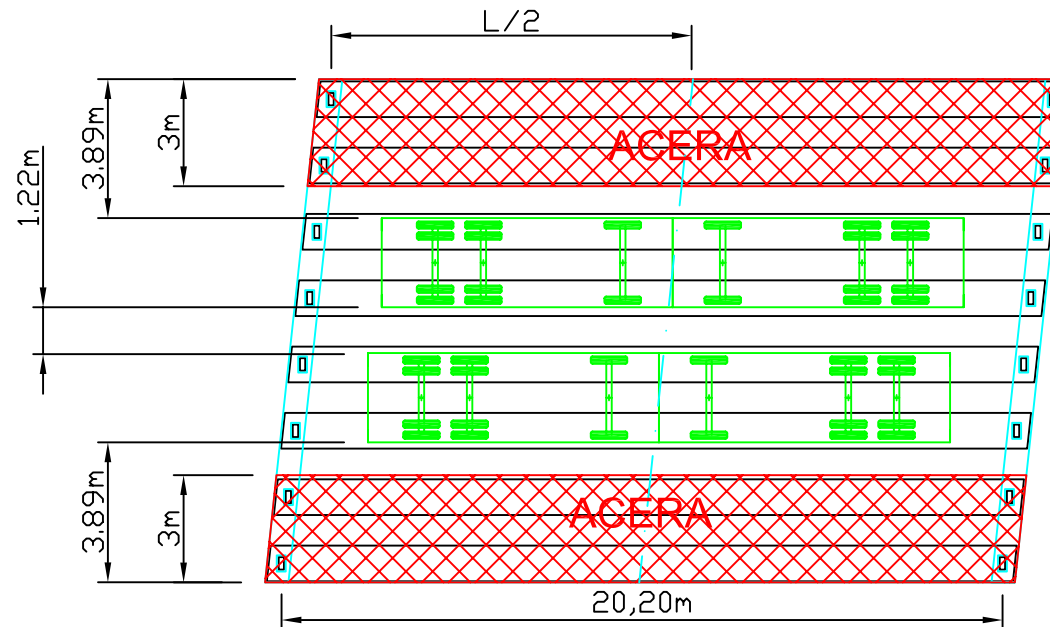
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PASO SUPERIOR PS-02

## POSICIÓN EN PLANTA PRUEBA ESTÁTICA

ESTÁTICA 02

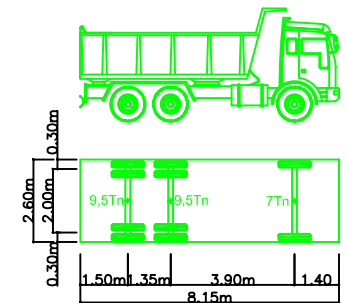
ALSASUA



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PASO SUPERIOR PS-02

CAMIÓN ARTICULADO 3 EJES (26T)

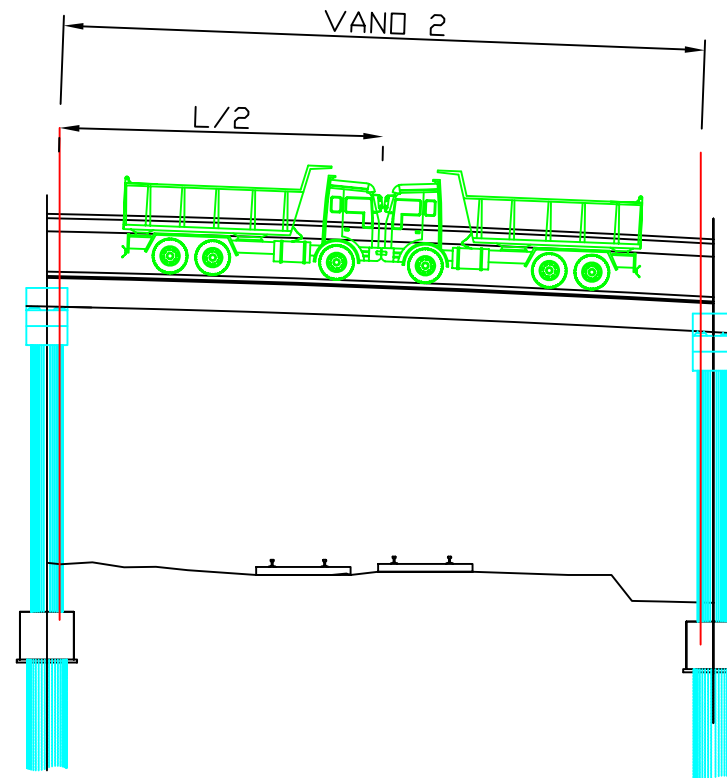


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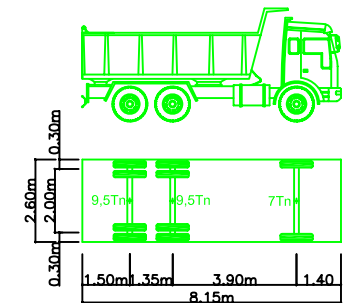
## POSICIÓN EN ALZADO PRUEBA ESTÁTICA

### ESTÁTICA 02



### PASO SUPERIOR PS-02

#### CAMIÓN ARTICULADO 3 EJES (26T)



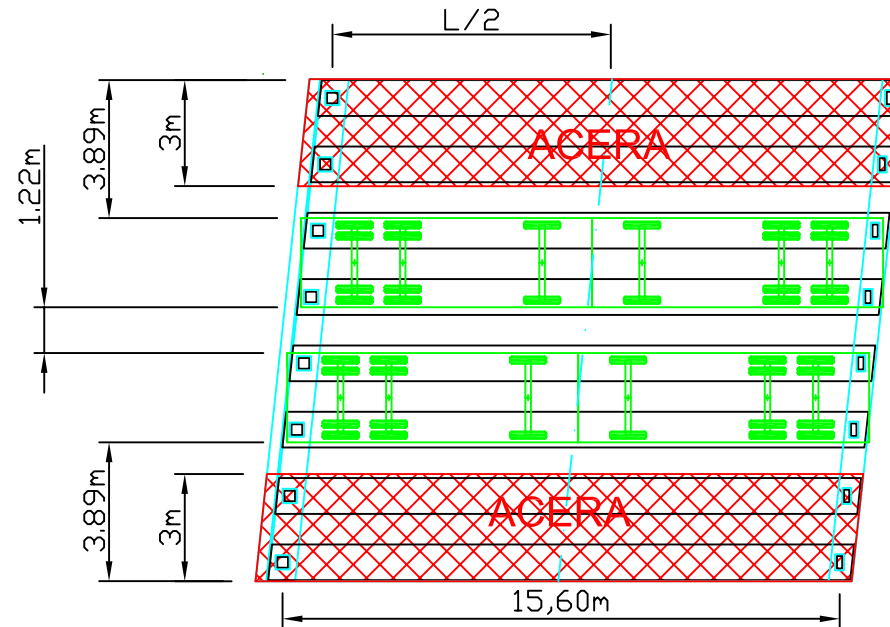
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## POSICIÓN EN PLANTA PRUEBA ESTÁTICA

ESTÁTICA 03

ALSASUA

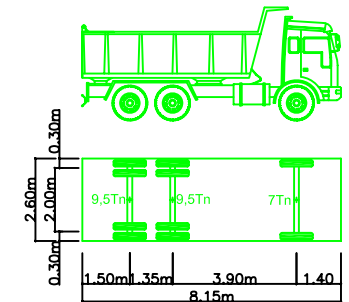


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PASO SUPERIOR PS-02

CAMIÓN ARTICULADO 3 EJES (26T)

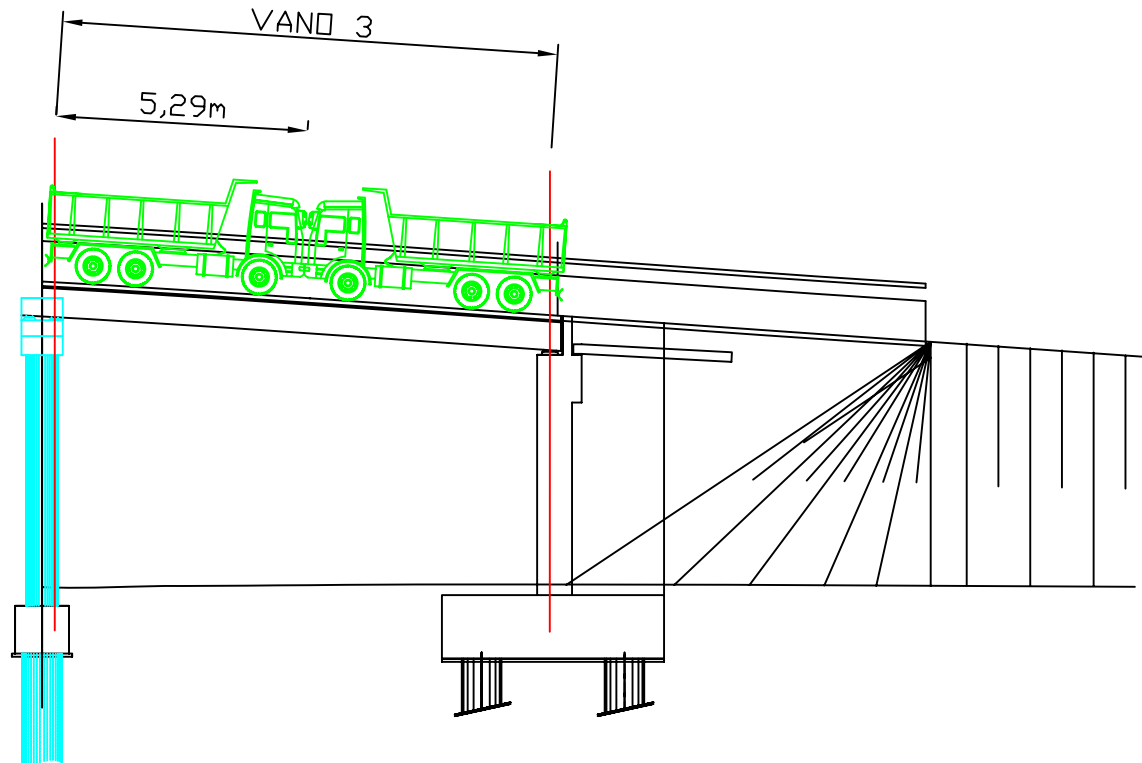


PRUEBAS DINÁMICAS.-

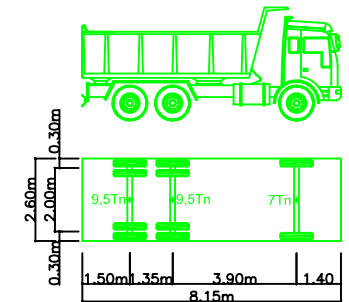
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## POSICIÓN EN ALZADO PRUEBA ESTÁTICA

### ESTÁTICA 03



CAMIÓN ARTICULADO 3 EJES (26T)



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PASO SUPERIOR PS-02



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## **ANEJO 4: REGISTRO DE MEDIDAS**

Madrid, Febrero de 2010

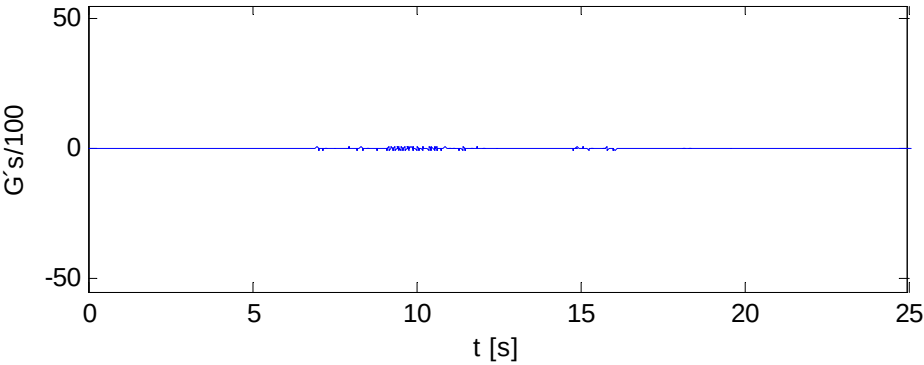
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**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

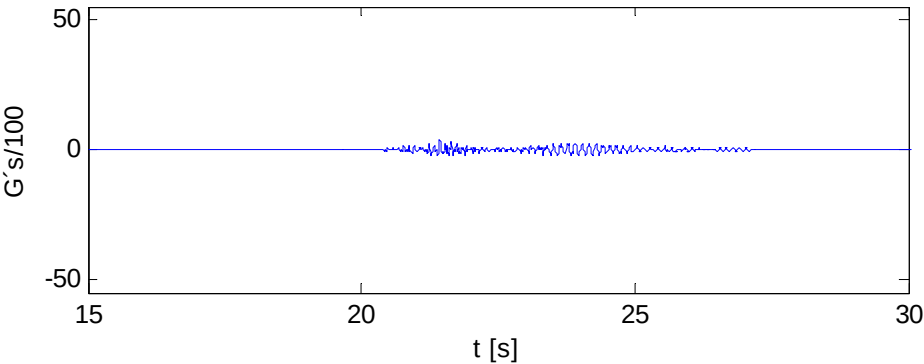
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: A11

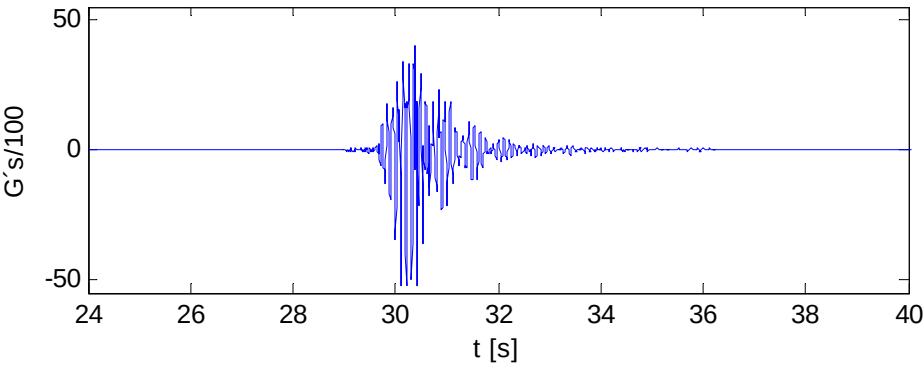
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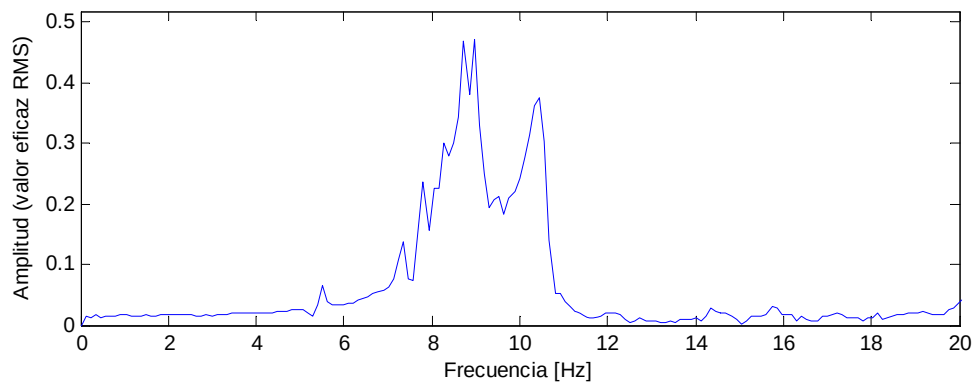
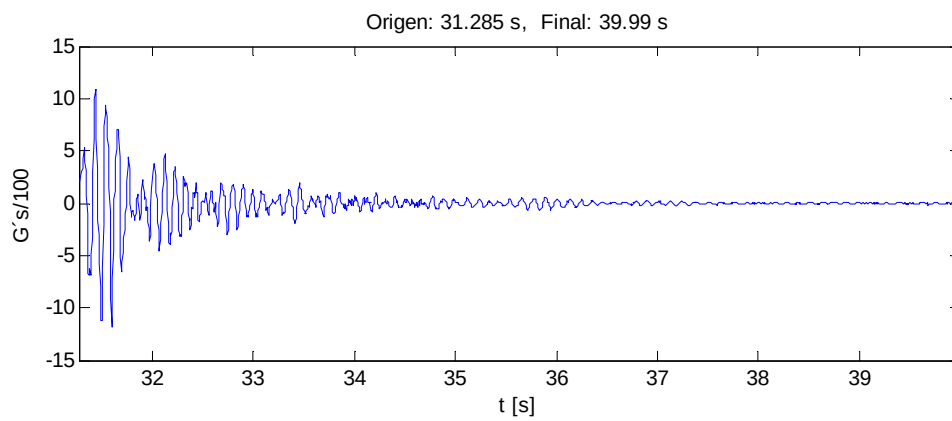
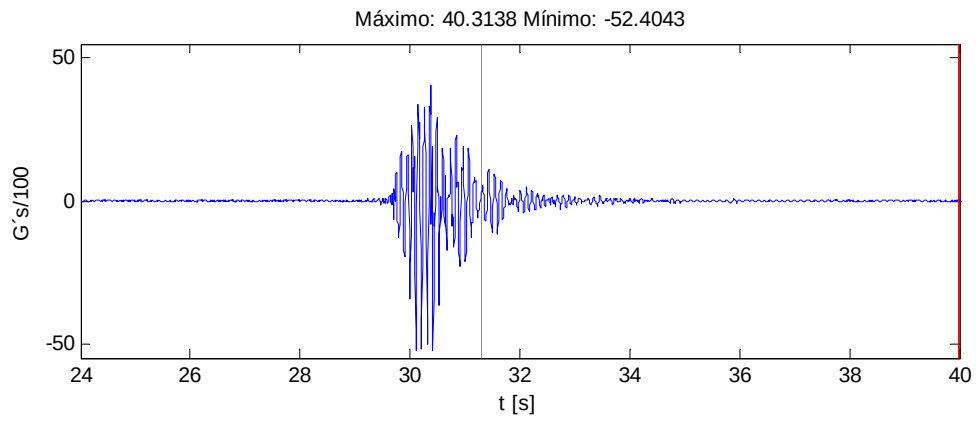


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**Prueba: DIN03    Punto: A11**

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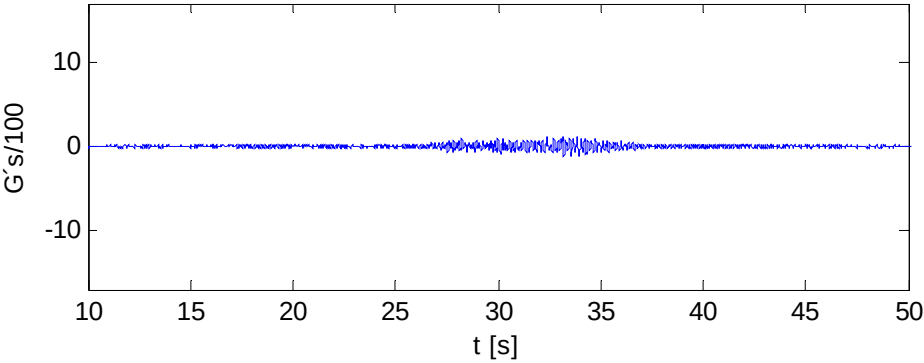


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

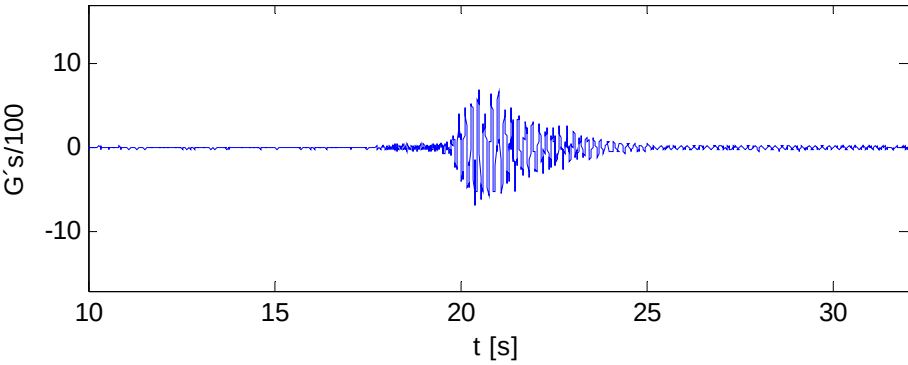
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: A21

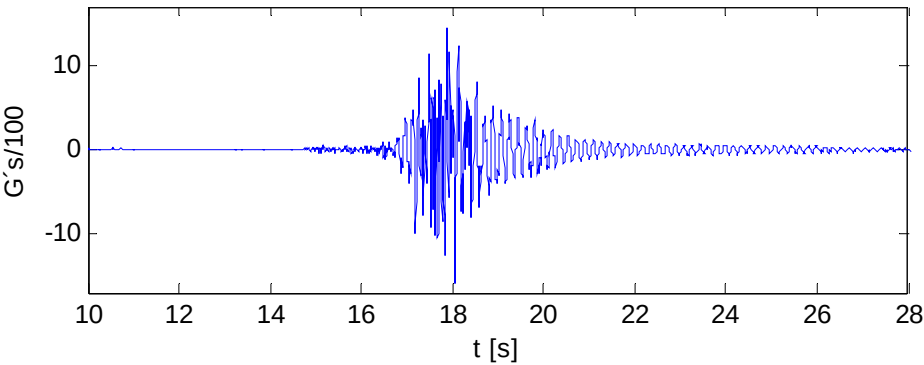
P: A21; Pr: DIN01; Max: 1.260; Min: -1.271; Rem: -9.9E-3



P: A21; Pr: DIN02; Max: 6.895; Min: -6.966; Rem: -0.010

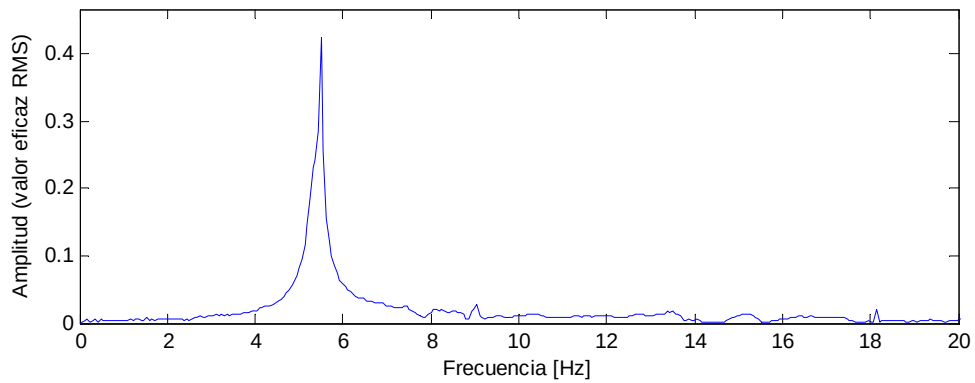
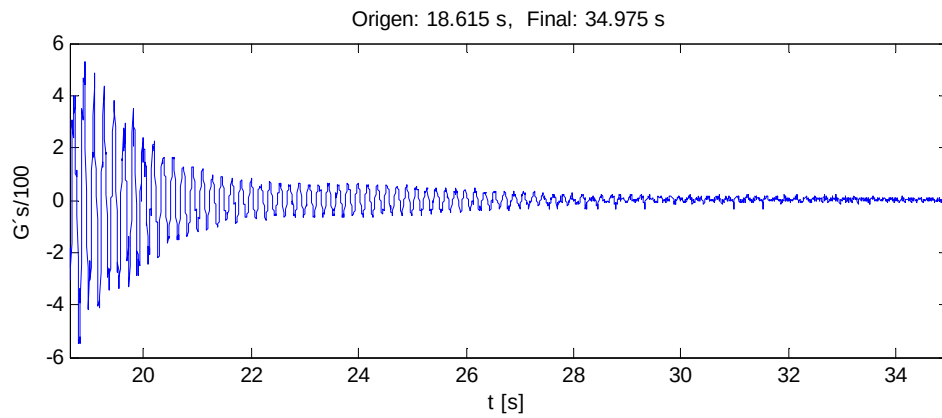
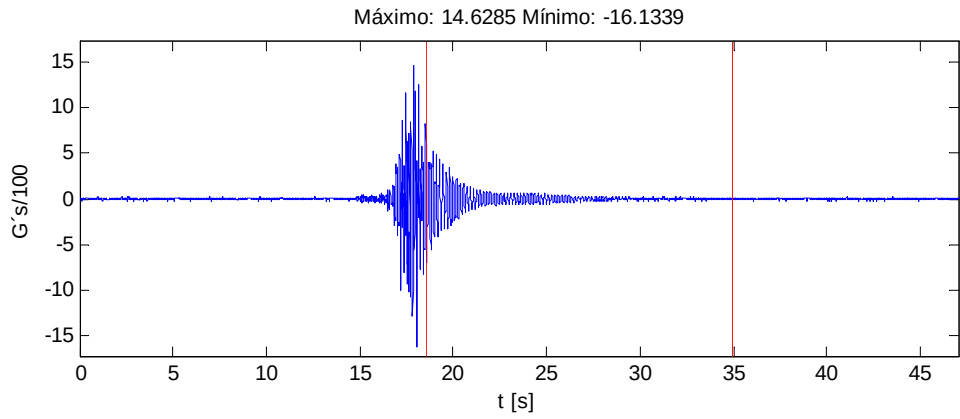


P: A21; Pr: DIN03; Max: 14.62; Min: -16.13; Rem: 0.003



**Prueba: DIN03    Punto: A21**

**Frec: 5.497Hz; Amp: 0.424; Amort: 0.909%; DecLog: 0.057**

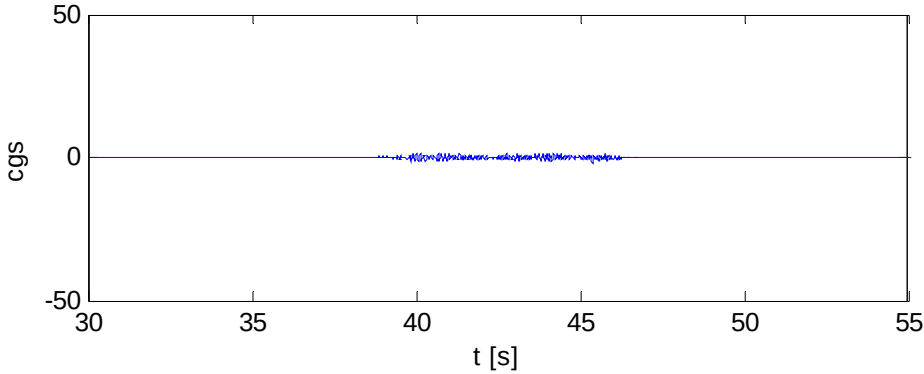


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

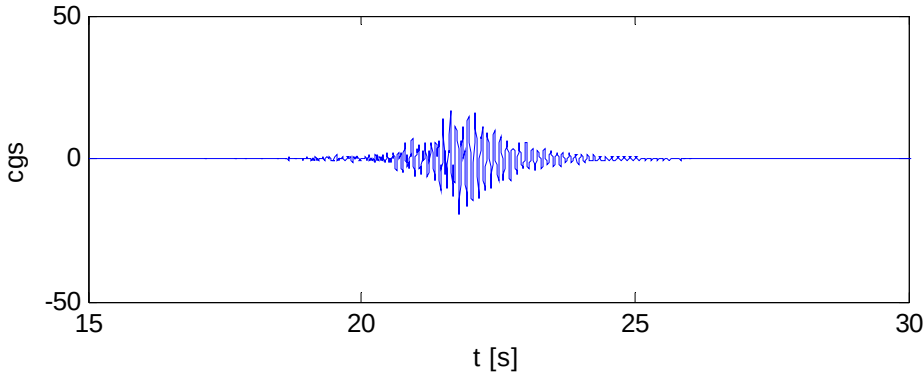
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: A31

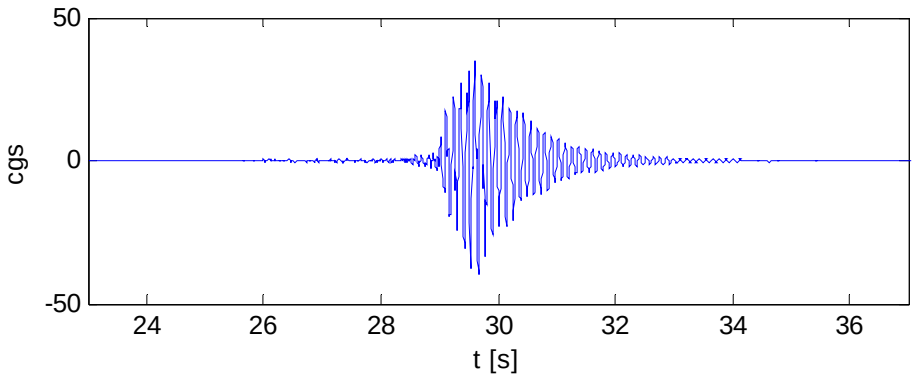
P: A31; Pr: DIN01; Max: 1.686; Min: -1.858; Rem: -0.037



P: A31; Pr: DIN02; Max: 16.54; Min: -19.72; Rem: -0.020

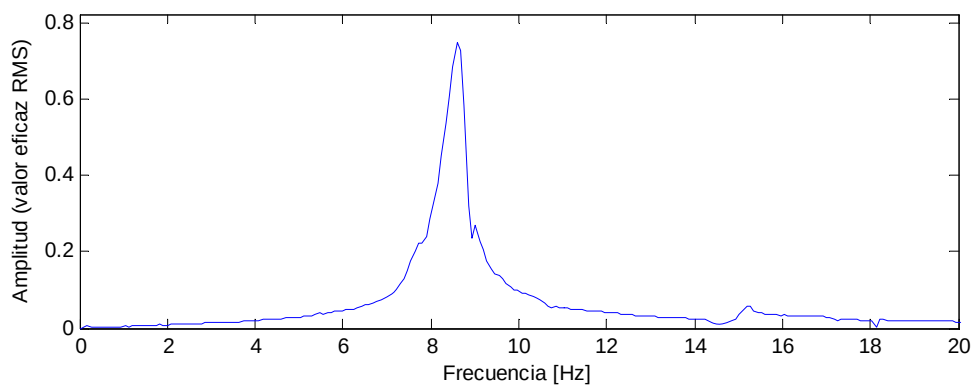
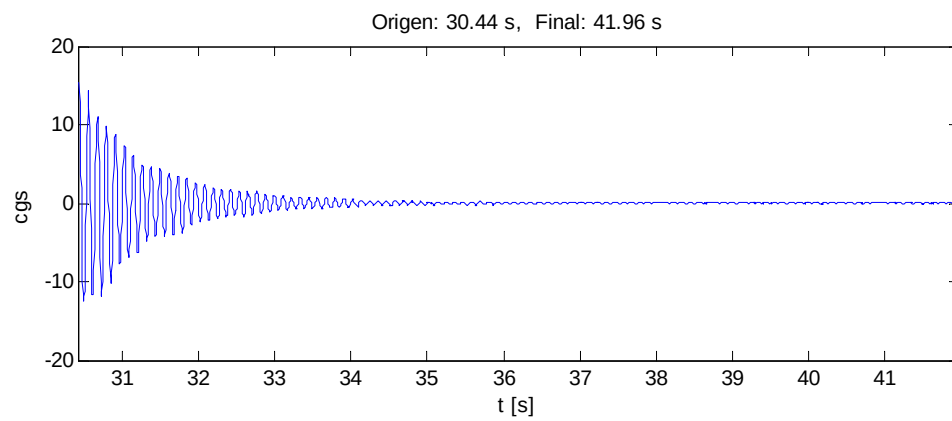
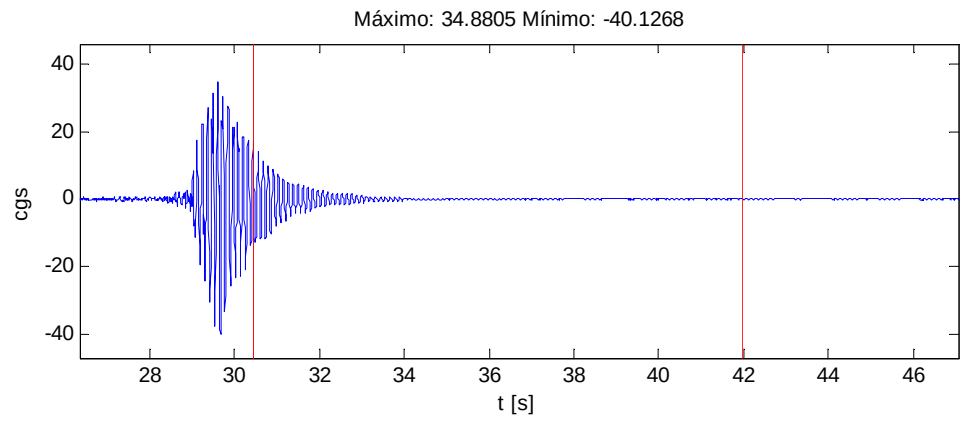


P: A31; Pr: DIN03; Max: 34.88; Min: -40.12; Rem: 5.9E-3



**Prueba: DIN03    Punto: A31**

**Frec: 8.586Hz; Amp: 0.750; Amort: 2.666%; DecLog: 0.167**

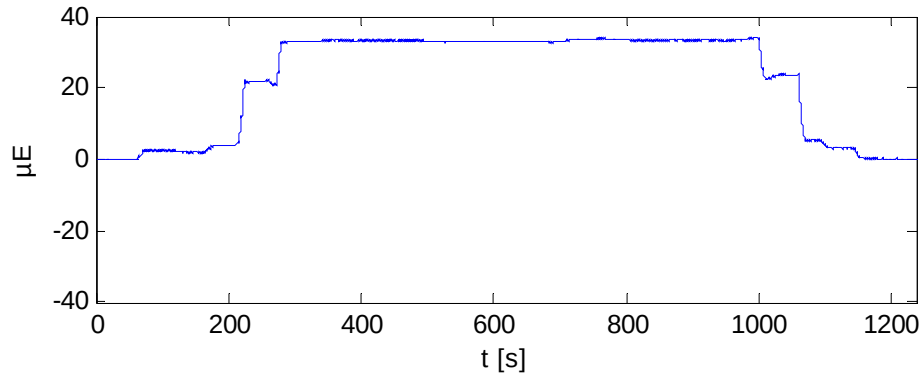


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G12

P: G12; Pr: EST01; Max: 34.41; Min: -0.211; Rem: 0.084; Est: 33.18

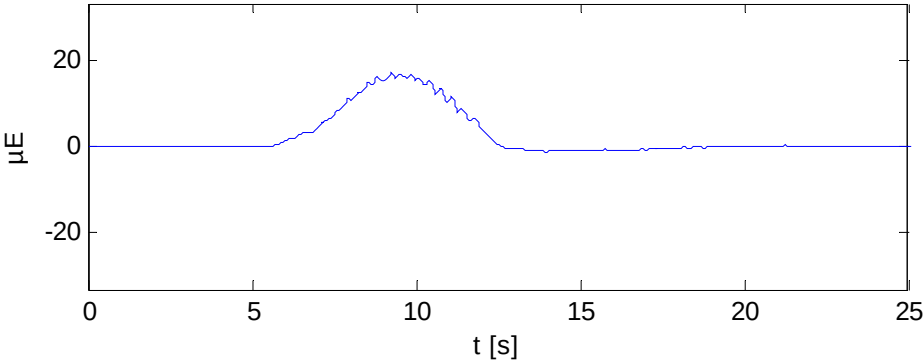


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

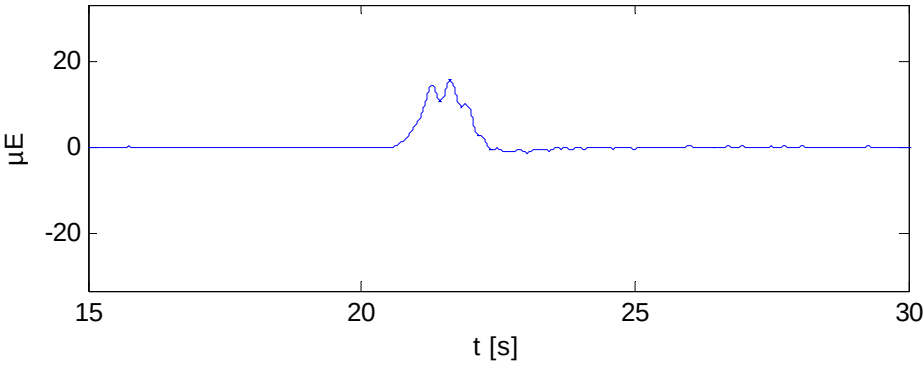
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G12

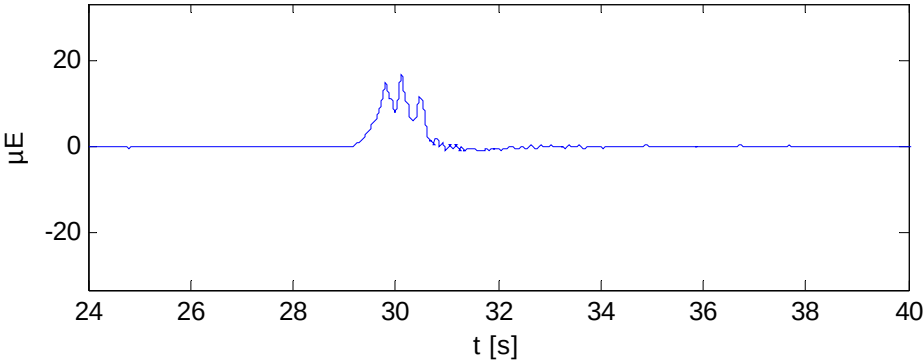
P: G12; Pr: DIN01; Max: 16.99; Min: -1.203; Rem: 0.052



P: G12; Pr: DIN02; Max: 15.56; Min: -1.159; Rem: 0.132



P: G12; Pr: DIN03; Max: 16.79; Min: -1.155; Rem: 0.054

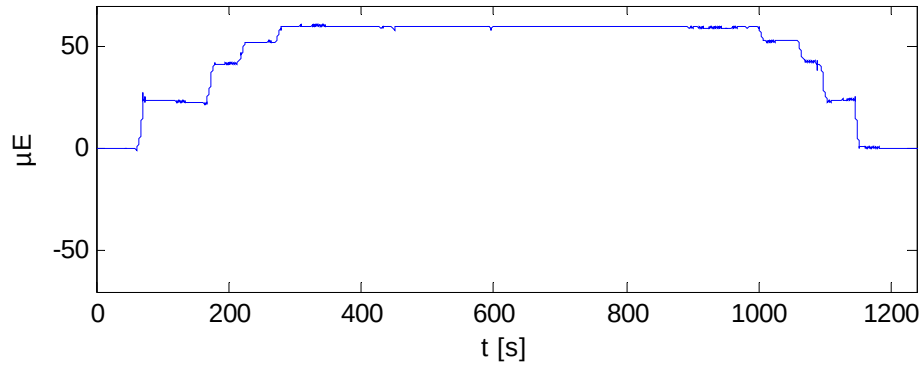


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G16

P: G16; Pr: EST01; Max: 60.88; Min: -0.799; Rem: 0.042; Est: 60.50

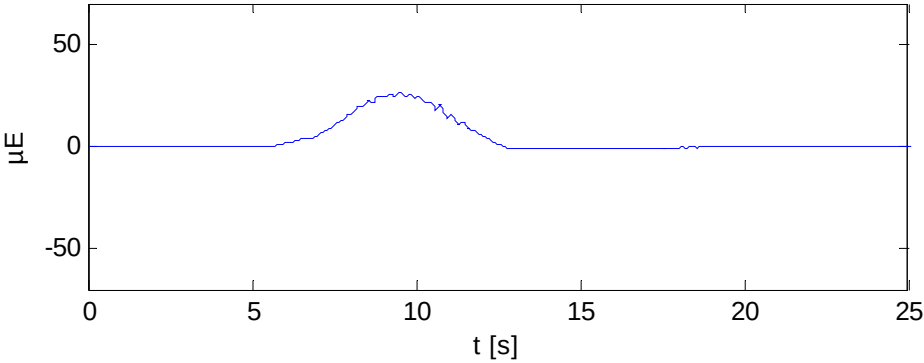


PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

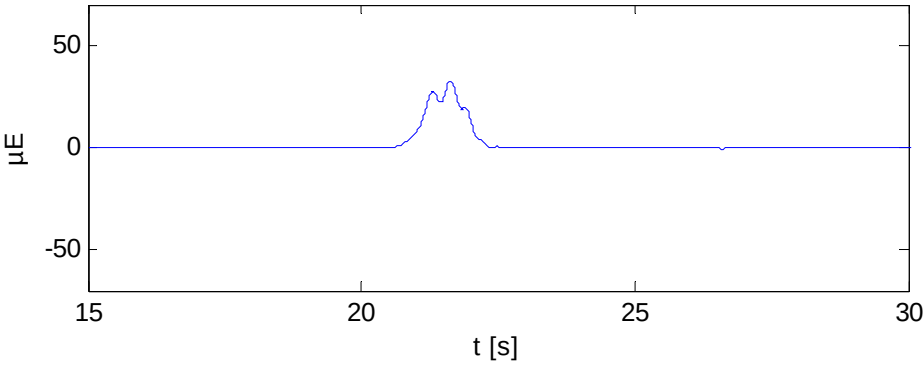
LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G16

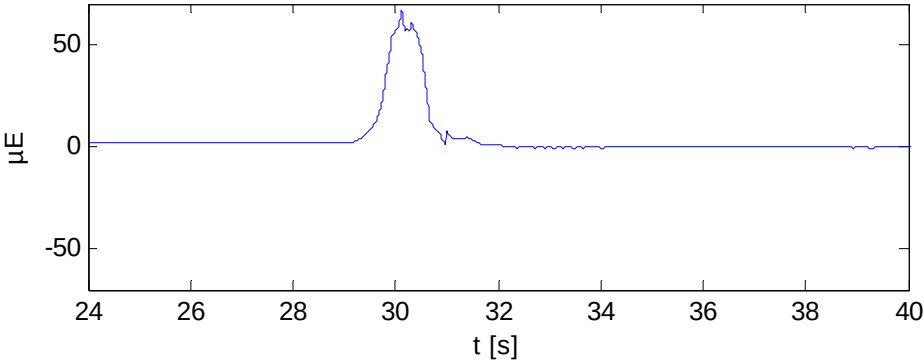
P: G16; Pr: DIN01; Max: 26.03; Min: -1.303; Rem: -0.104



P: G16; Pr: DIN02; Max: 32.65; Min: -1.133; Rem: -0.155



P: G16; Pr: DIN03; Max: 66.29; Min: -0.671; Rem: 0.117

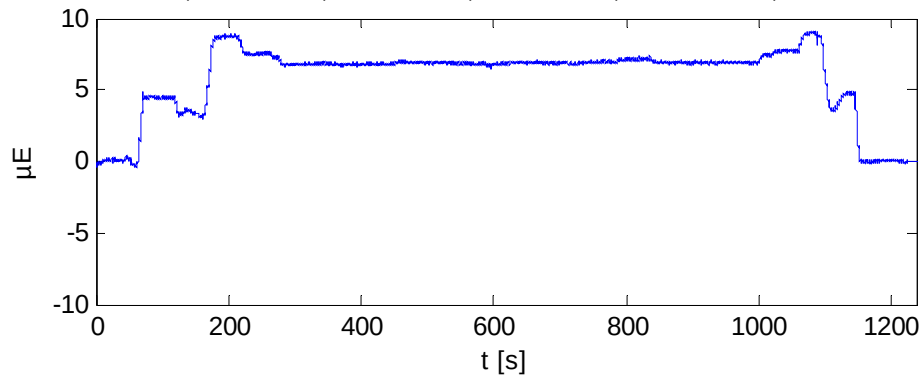


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G18

P: G18; Pr: EST01; Max: 9.158; Min: -0.378; Rem: -0.015; Est: 6.844

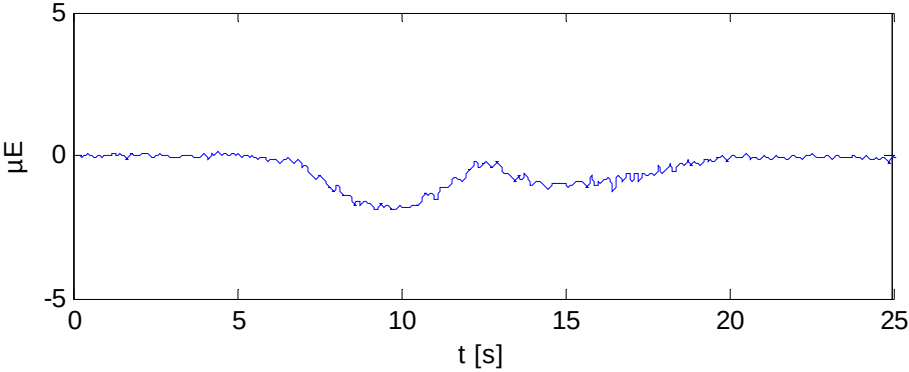


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

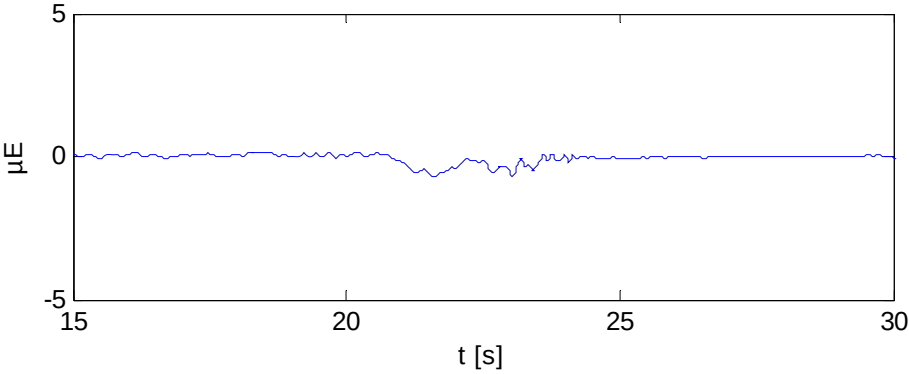
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G18

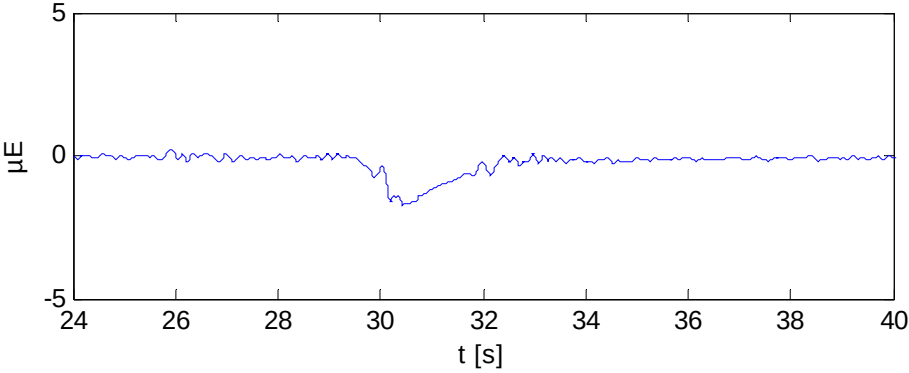
P: G18; Pr: DIN01; Max: 0.133; Min: -1.931; Rem: -0.095



P: G18; Pr: DIN02; Max: 0.242; Min: -0.718; Rem: 0.047



P: G18; Pr: DIN03; Max: 0.241; Min: -1.732; Rem: -2.8E-3

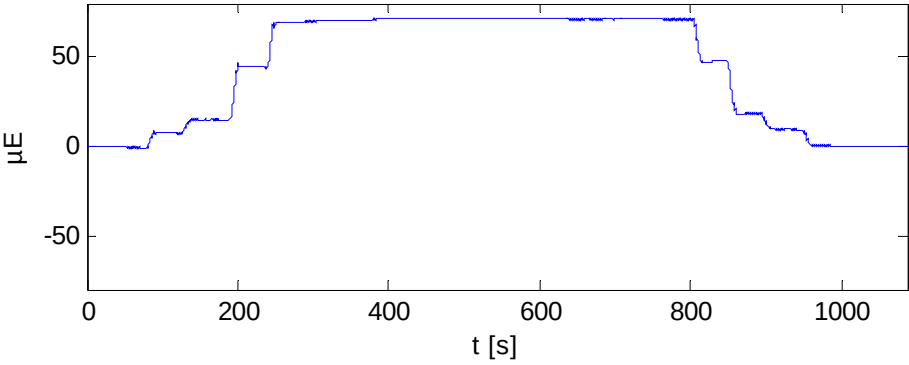


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G22

P: G22; Pr: EST02; Max: 69.33; Min: -1.500; Rem: 0.013; Est: 71.62

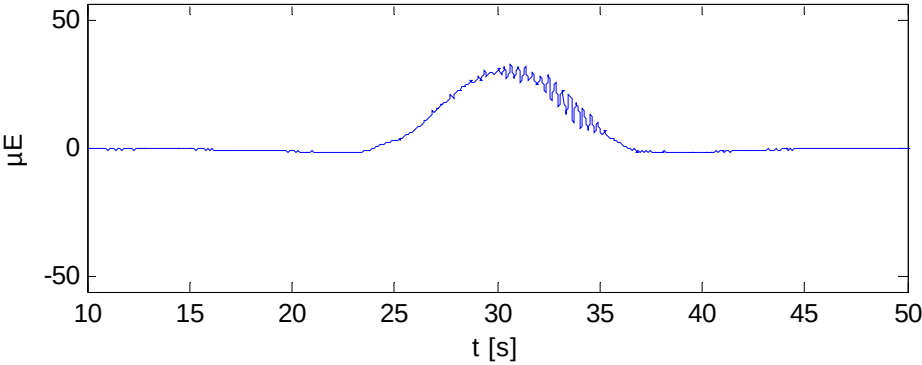


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

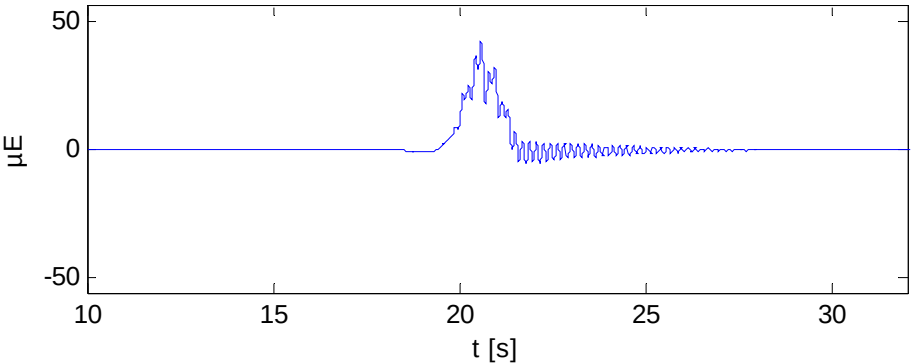
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G22

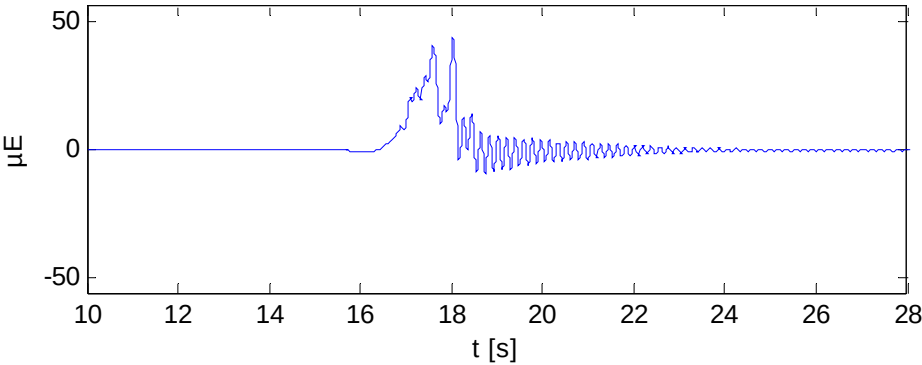
P: G22; Pr: DIN01; Max: 32.86; Min: -1.794; Rem: -0.042



P: G22; Pr: DIN02; Max: 41.88; Min: -5.613; Rem: -0.097



P: G22; Pr: DIN03; Max: 43.59; Min: -8.945; Rem: -0.155

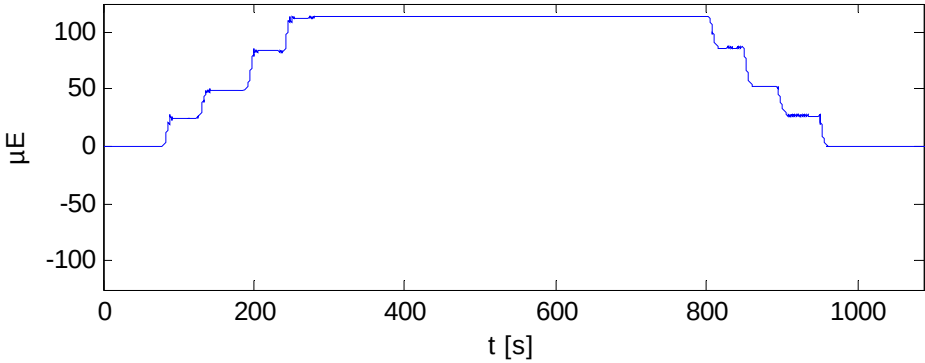


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G24

P: G24; Pr: EST02; Max: 109.9; Min: -0.635; Rem: -0.090; Est: 113.8

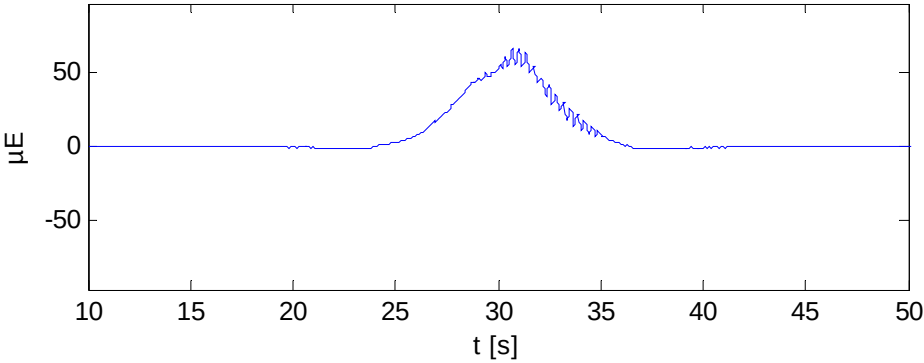


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

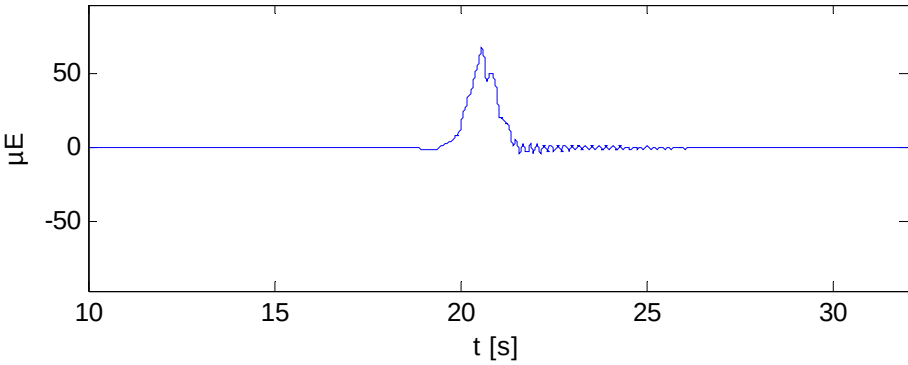
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G24

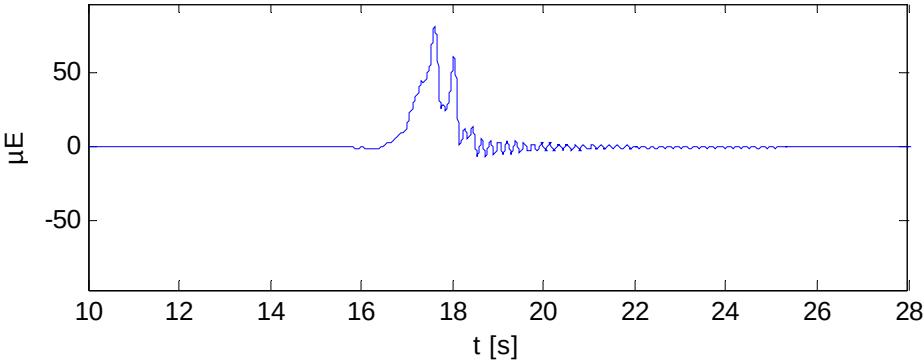
P: G24; Pr: DIN01; Max: 66.10; Min: -1.429; Rem: 0.052



P: G24; Pr: DIN02; Max: 68.55; Min: -4.270; Rem: 0.098



P: G24; Pr: DIN03; Max: 81.23; Min: -6.420; Rem: -0.278

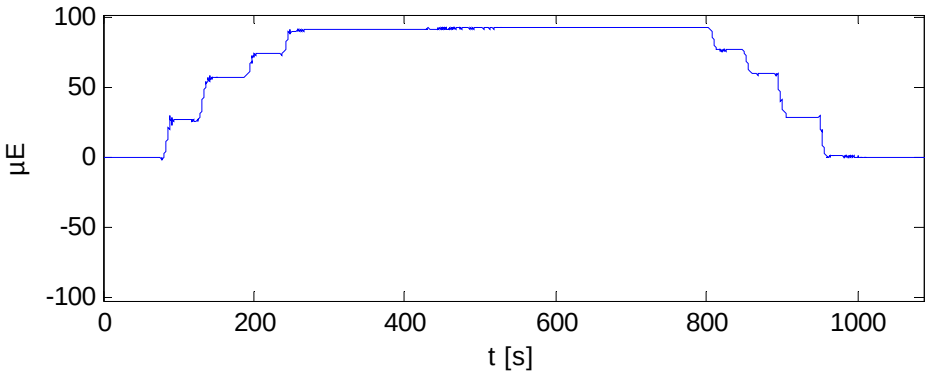


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G26

P: G26; Pr: EST02; Max: 88.78; Min: -1.023; Rem: 0.083; Est: 91.76

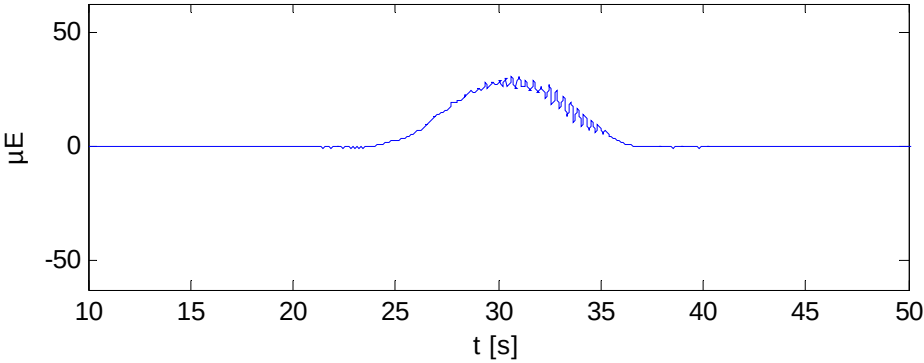


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

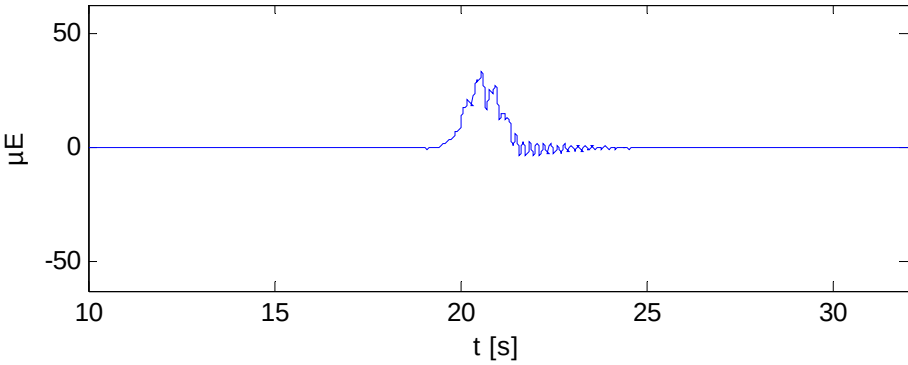
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G26

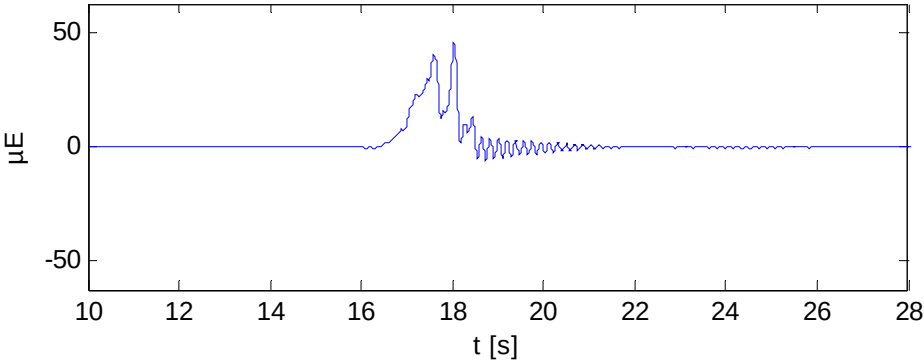
P: G26; Pr: DIN01; Max: 31.10; Min: -0.567; Rem: 0.061



P: G26; Pr: DIN02; Max: 33.84; Min: -3.832; Rem: -0.108



P: G26; Pr: DIN03; Max: 46.14; Min: -5.755; Rem: -0.114

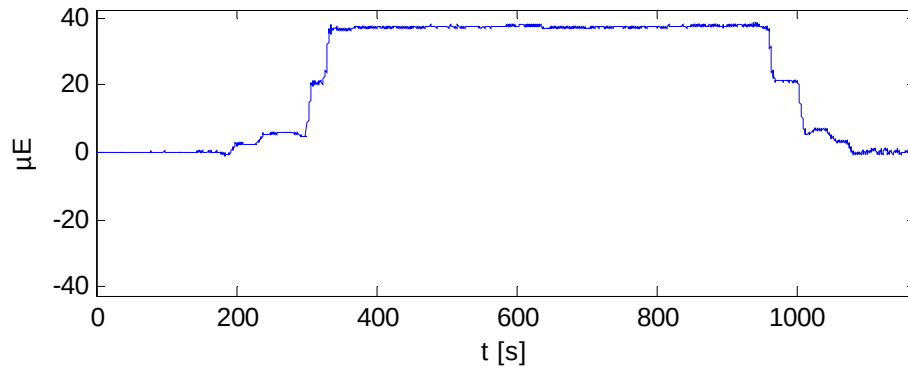


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G32

P: G32; Pr: EST03; Max: 38.88; Min: -1.032; Rem: 0.450; Est: 37.96

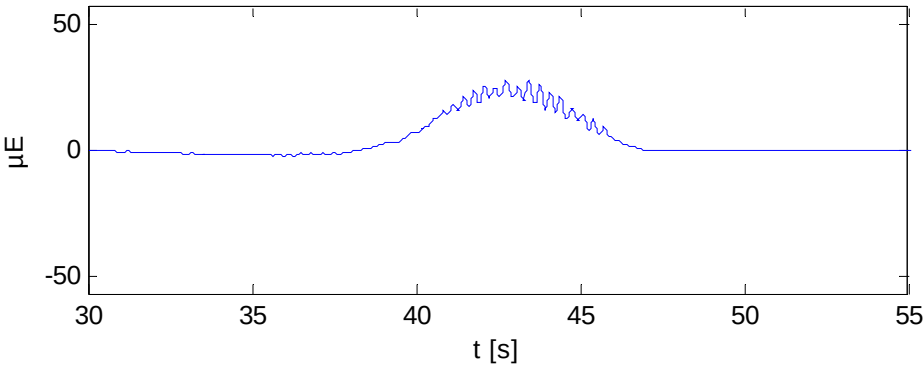


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

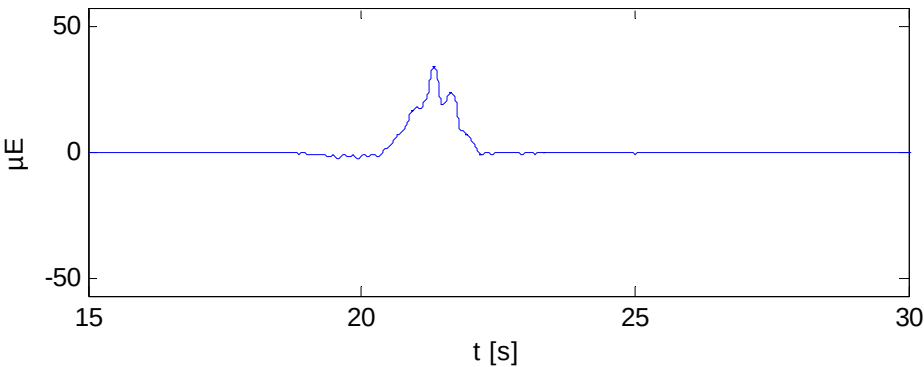
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G32

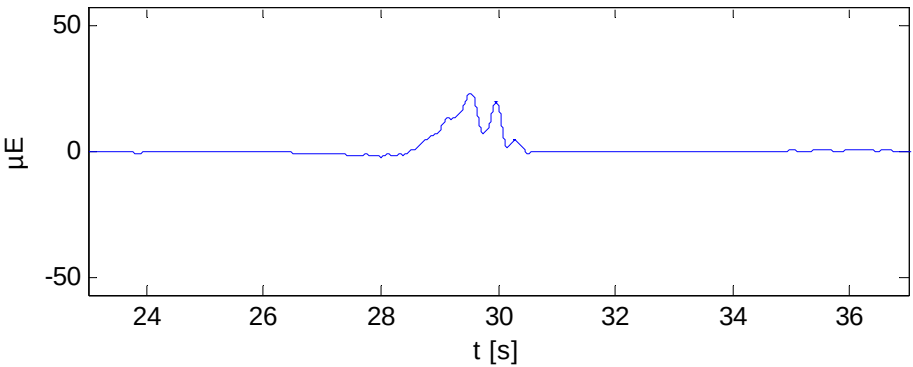
P: G32; Pr: DIN01; Max: 27.69; Min: -2.278; Rem: -0.053



P: G32; Pr: DIN02; Max: 34.13; Min: -2.393; Rem: -0.201



P: G32; Pr: DIN03; Max: 23.41; Min: -1.996; Rem: -0.108

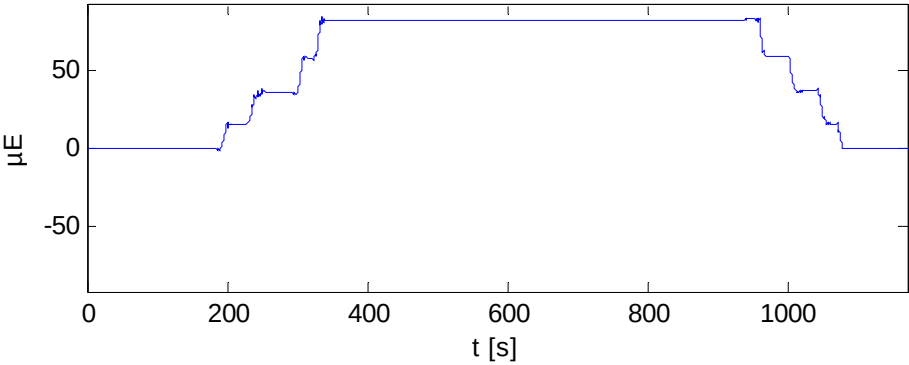


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G34

P: G34; Pr: EST03; Max: 82.67; Min: -1.021; Rem: 0.074; Est: 83.35

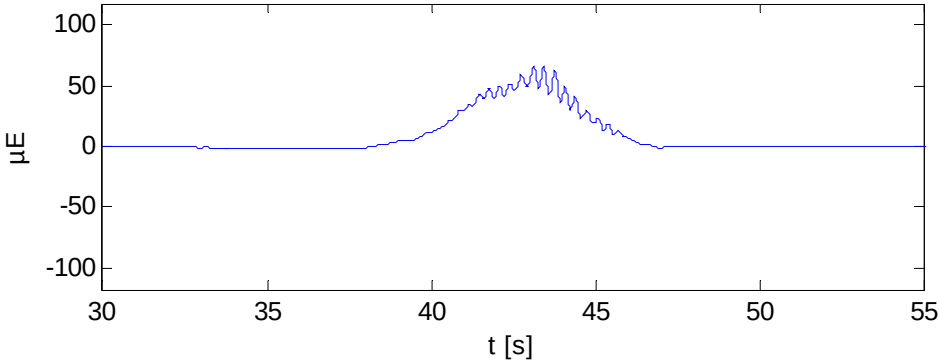


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

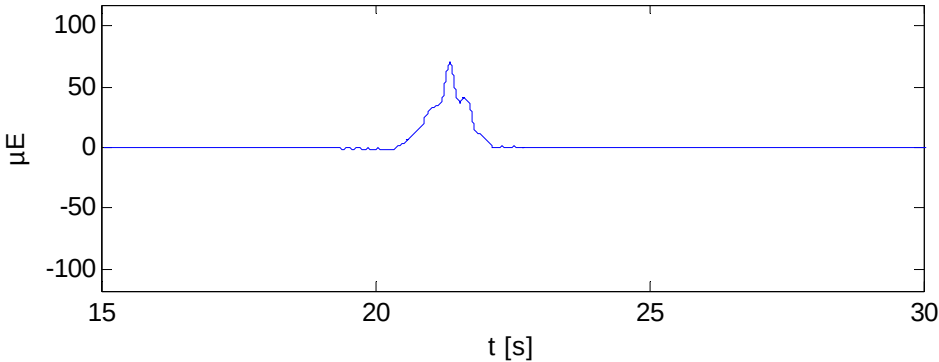
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G34

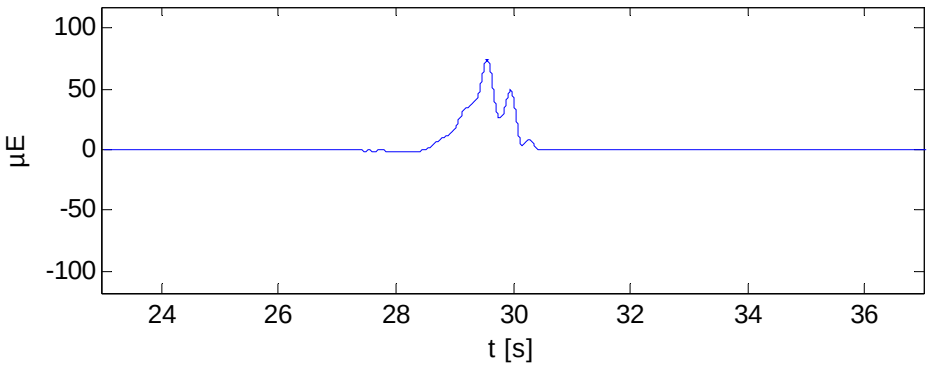
P: G34; Pr: DIN01; Max: 66.03; Min: -1.780; Rem: -0.038



P: G34; Pr: DIN02; Max: 70.25; Min: -1.502; Rem: -0.070



P: G34; Pr: DIN03; Max: 75.04; Min: -1.288; Rem: -0.268

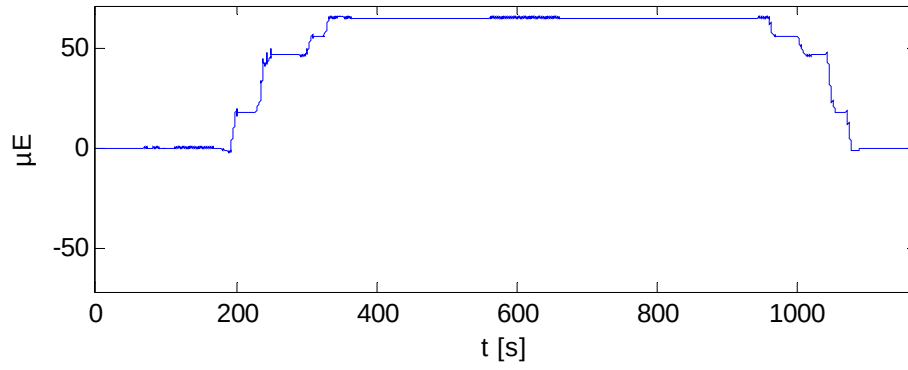


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G36

P: G36; Pr: EST03; Max: 63.58; Min: -1.725; Rem: -0.072; Est: 65.33

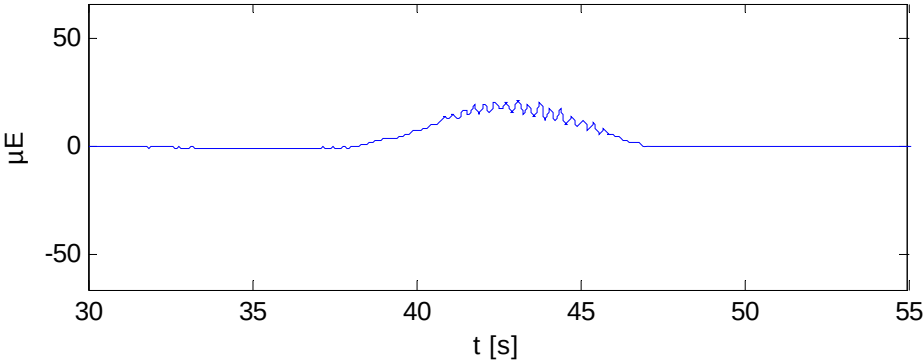


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

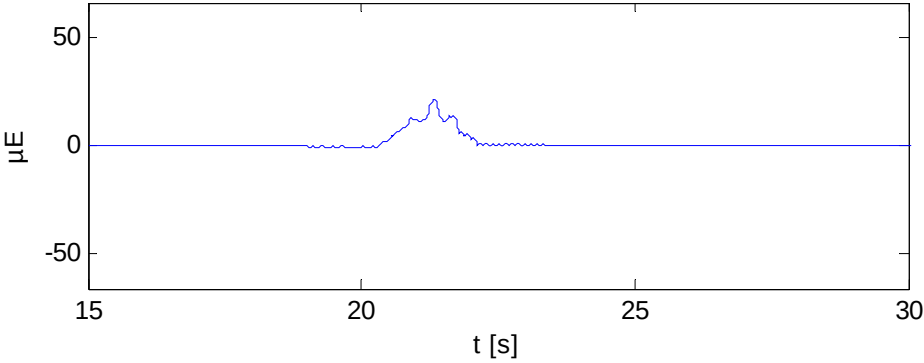
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: G36

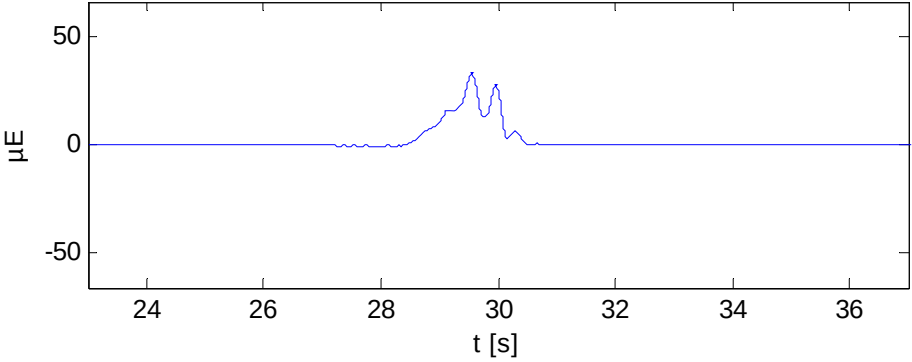
P: G36; Pr: DIN01; Max: 21.41; Min: -0.967; Rem: -0.109



P: G36; Pr: DIN02; Max: 21.60; Min: -1.122; Rem: -0.057



P: G36; Pr: DIN03; Max: 32.93; Min: -0.755; Rem: 0.022

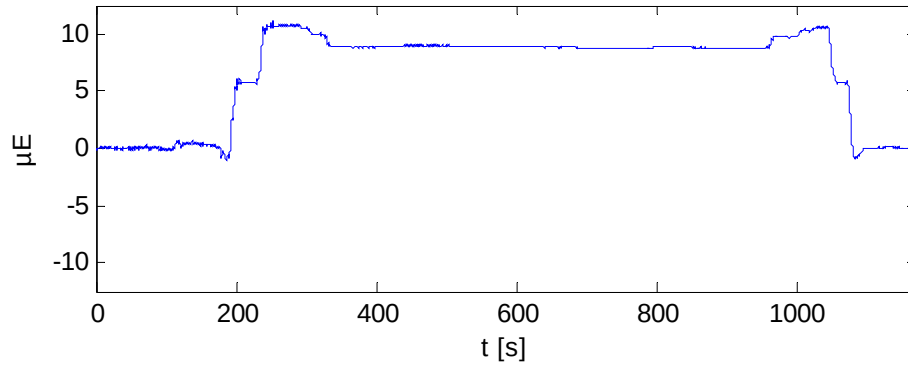


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G38

P: G38; Pr: EST03; Max: 10.80; Min: -1.050; Rem: 0.045; Est: 8.941

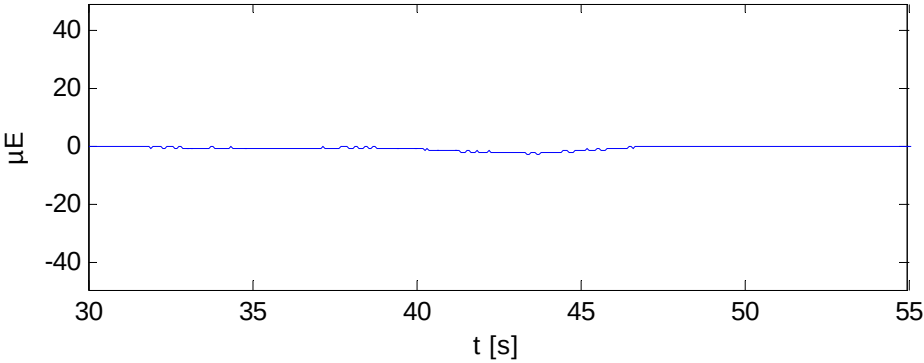


PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

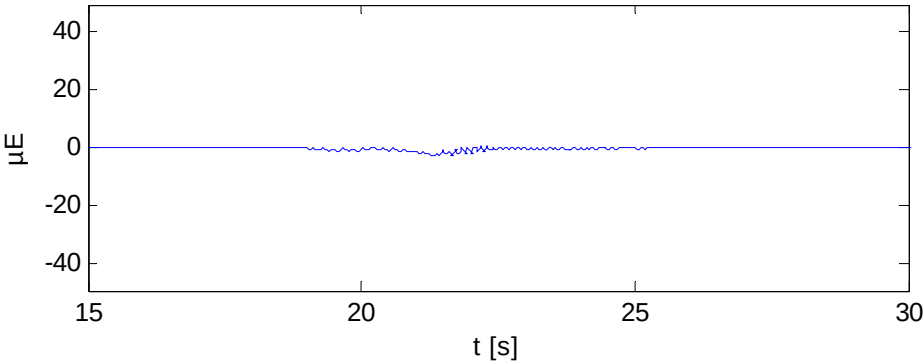
LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: G38

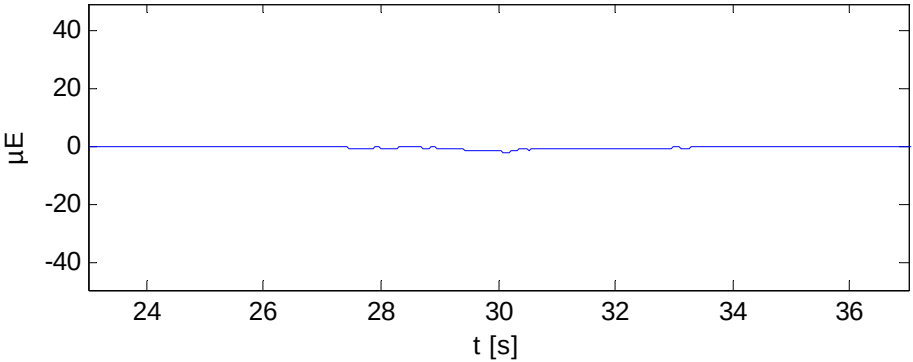
P: G38; Pr: DIN01; Max: 0.166; Min: -2.571; Rem: -0.046



P: G38; Pr: DIN02; Max: 0.514; Min: -3.045; Rem: 9.9E-3



P: G38; Pr: DIN03; Max: 0.148; Min: -1.865; Rem: -0.203

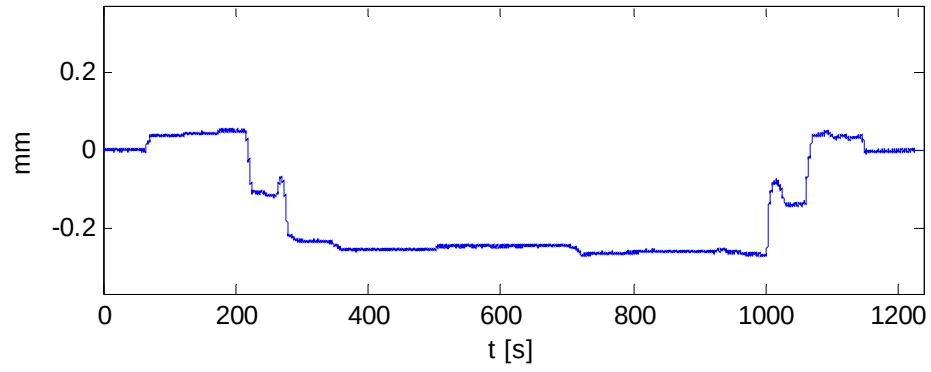


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P111

P: P111; Pr: EST01; Max: 0.055; Min: -0.275; Rem: 9.0E-4; Est: -0.248

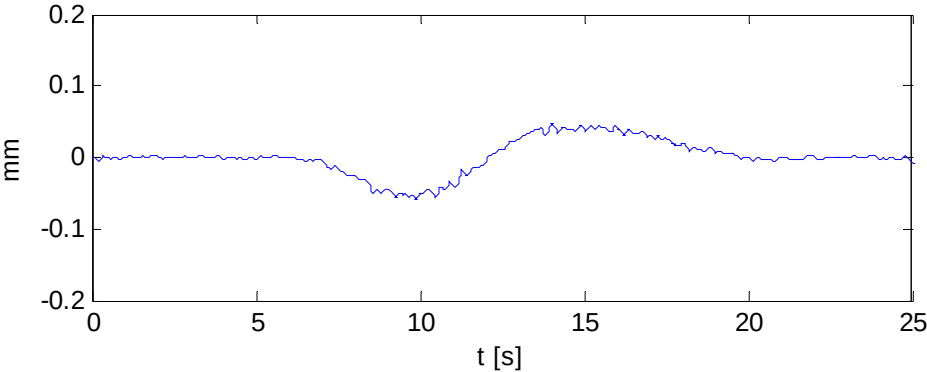


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

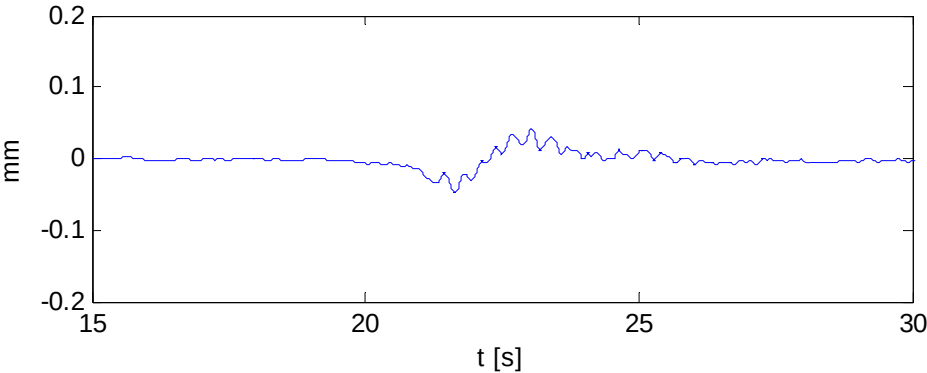
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P111

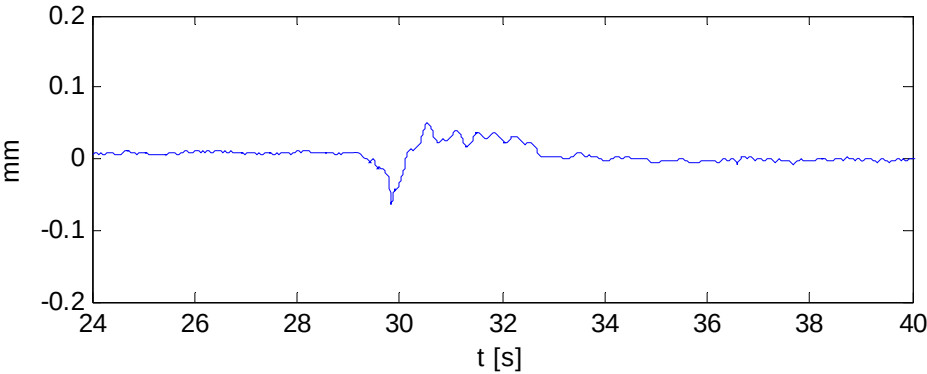
P: P111; Pr: DIN01; Max: 0.047; Min: -0.057; Rem: -1.3E-3



P: P111; Pr: DIN02; Max: 0.042; Min: -0.047; Rem: -2.3E-3



P: P111; Pr: DIN03; Max: 0.049; Min: -0.064; Rem: 3.3E-3

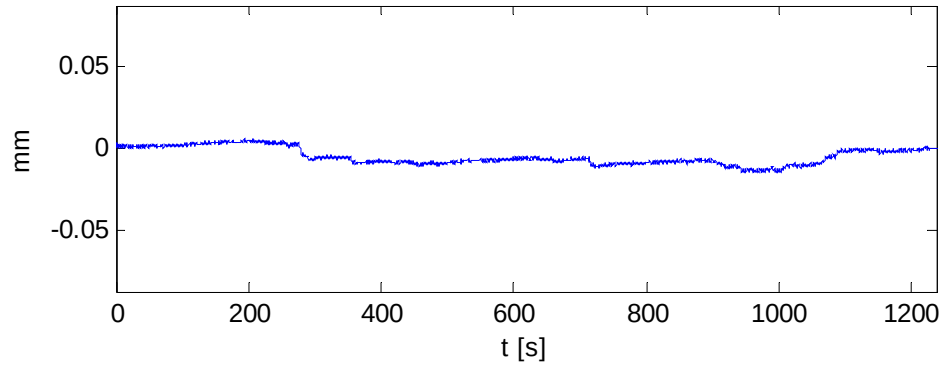


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P112

P: P112; Pr: EST01; Max: 5.1E-3; Min: -0.013; Rem: 3.9E-4; Est: -6.6E-3

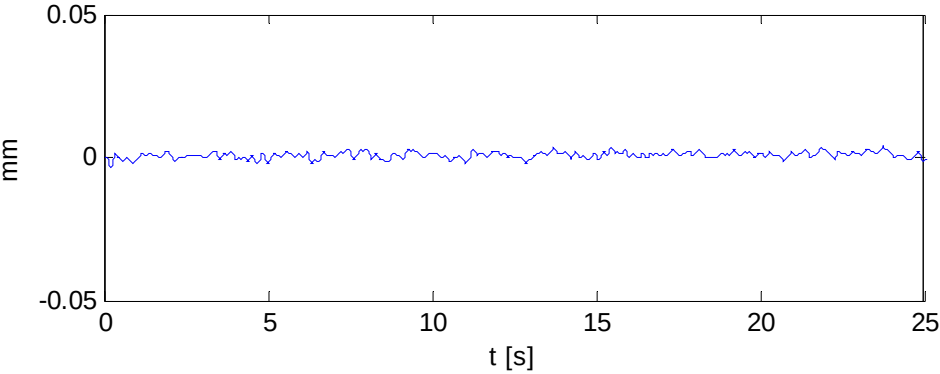


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

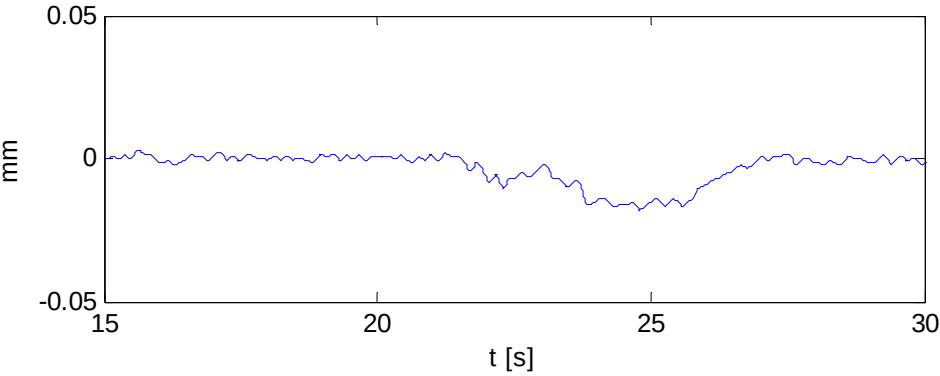
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P112

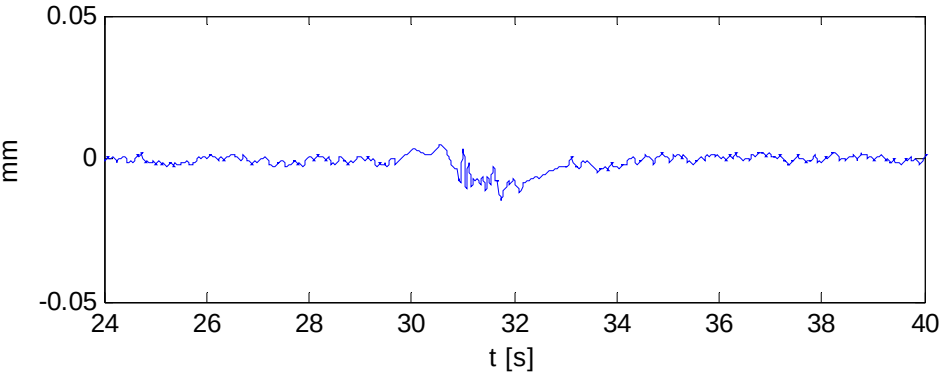
P: P112; Pr: DIN01; Max: 3.8E-3; Min: -3.3E-3; Rem: 1.6E-3



P: P112; Pr: DIN02; Max: 2.8E-3; Min: -0.016; Rem: 1.7E-4



P: P112; Pr: DIN03; Max: 4.2E-3; Min: -0.013; Rem: 3.9E-4

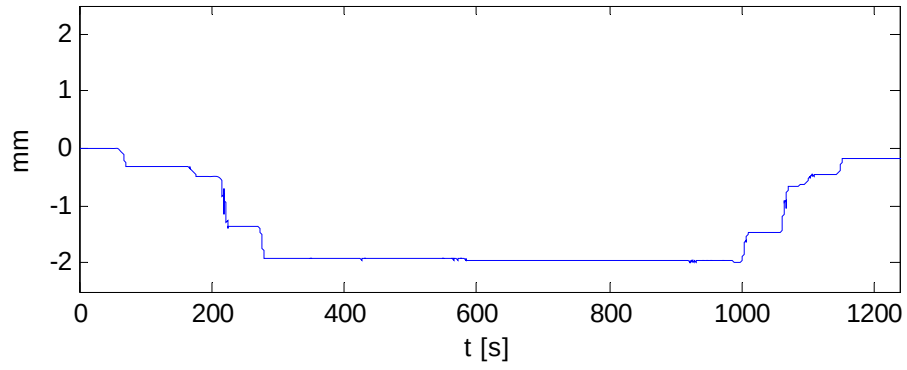


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P131

P: P131; Pr: EST01; Max: 4.3E-3; Min: -1.788; Rem: -0.164; Est: -1.949

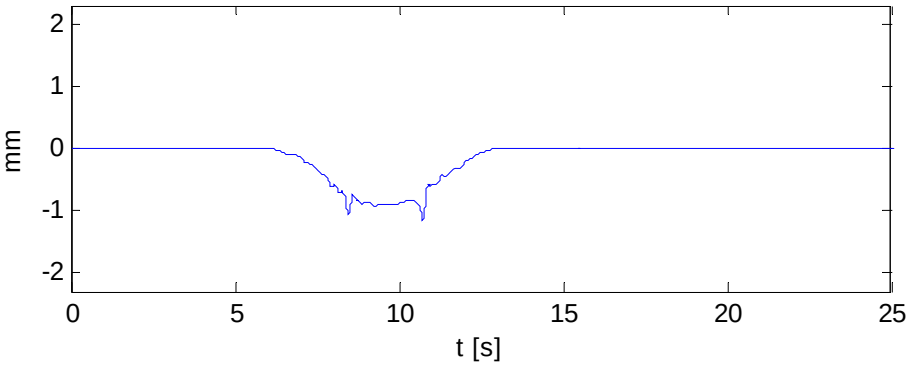


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

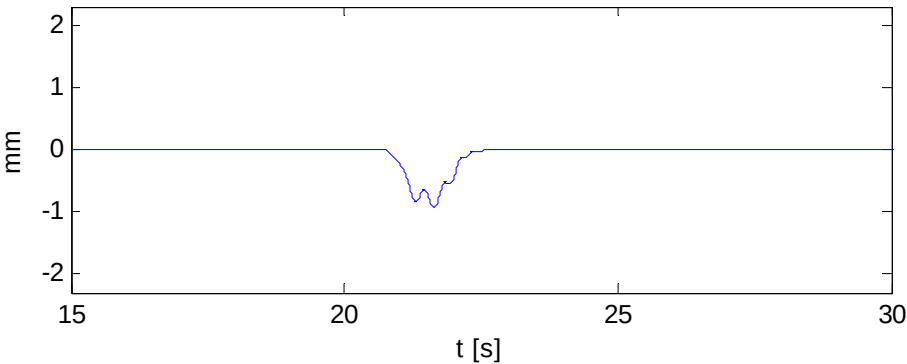
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P131

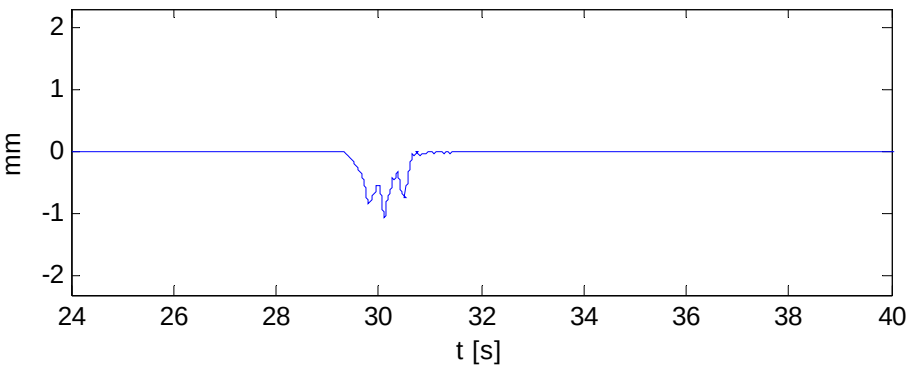
P: P131; Pr: DIN01; Max: 0.014; Min: -1.045; Rem: 3.4E-4



P: P131; Pr: DIN02; Max: 3.9E-3; Min: -0.830; Rem: -2.4E-3



P: P131; Pr: DIN03; Max: 6.6E-3; Min: -0.959; Rem: 2.5E-3

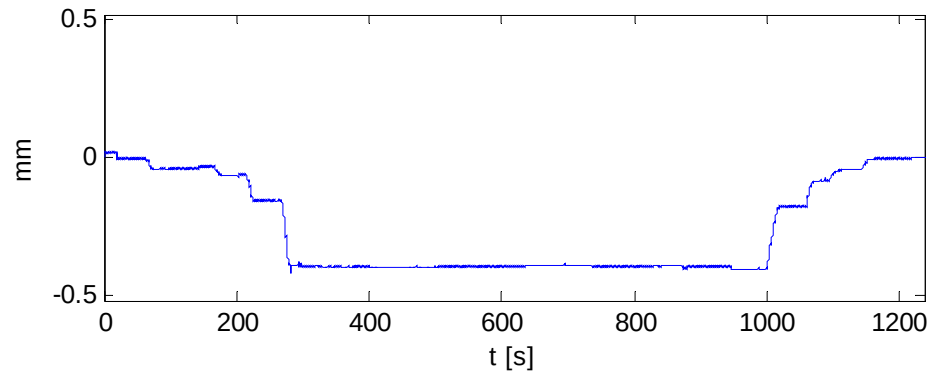


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P132

P: P132; Pr: EST01; Max: 0.019; Min: -0.382; Rem: -3.3E-4; Est: -0.395

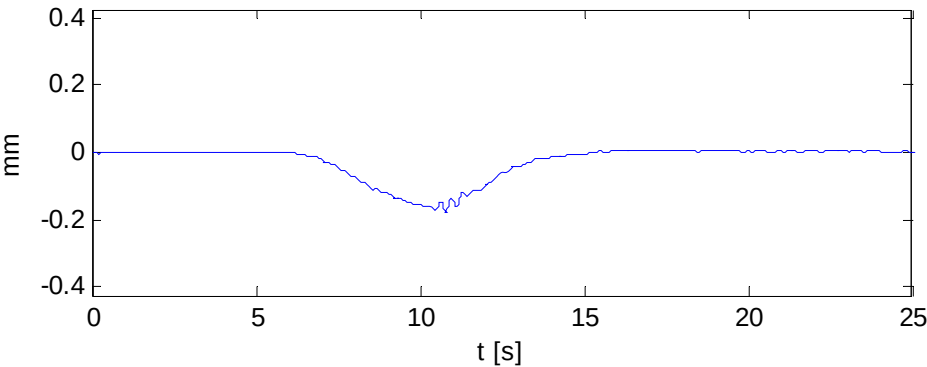


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

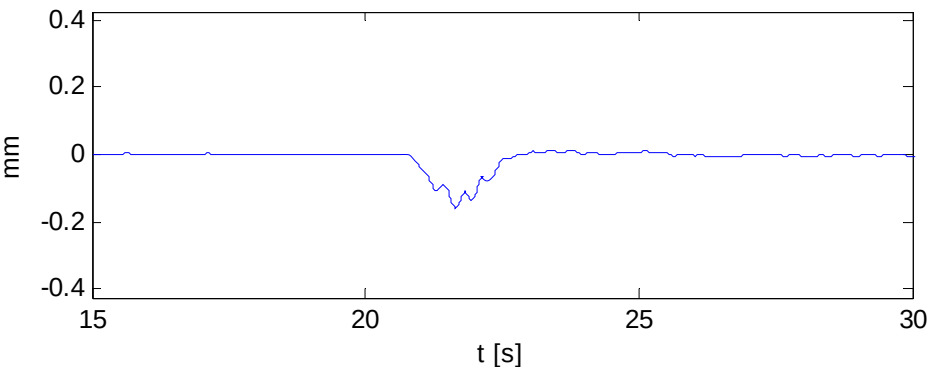
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P132

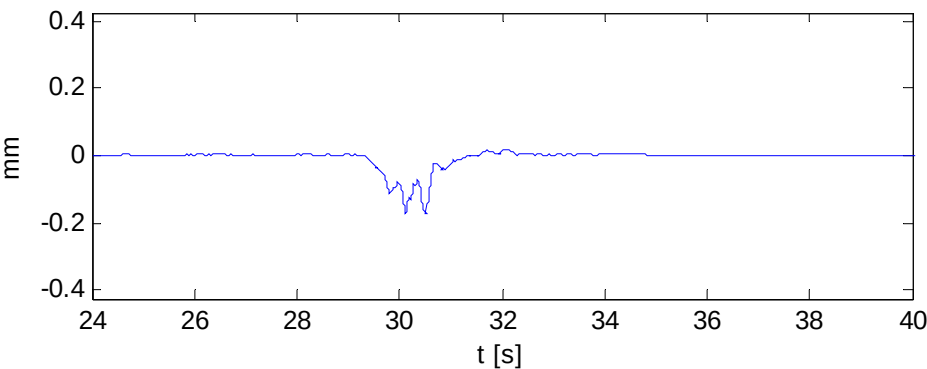
P: P132; Pr: DIN01; Max: 6.2E-3; Min: -0.159; Rem: 8.7E-5



P: P132; Pr: DIN02; Max: 0.011; Min: -0.145; Rem: -1.3E-3



P: P132; Pr: DIN03; Max: 0.015; Min: -0.157; Rem: 2.8E-3

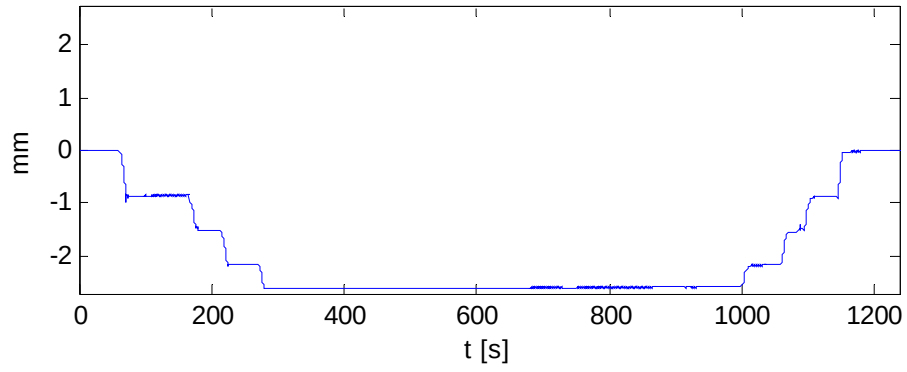


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P151

P: P151; Pr: EST01; Max: 0.008; Min: -2.331; Rem: -5.8E-4; Est: -2.589

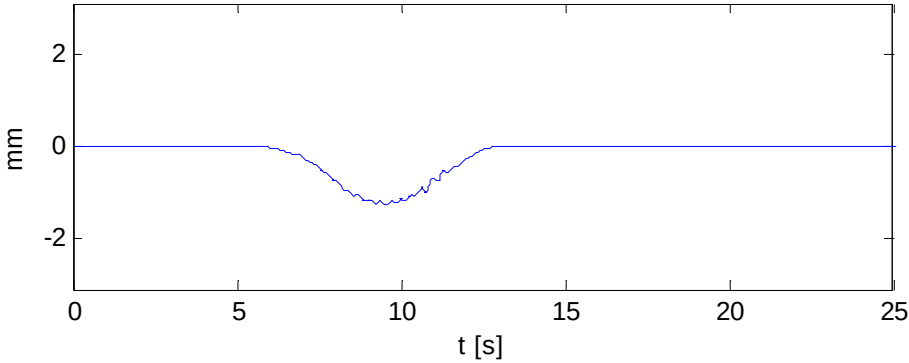


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

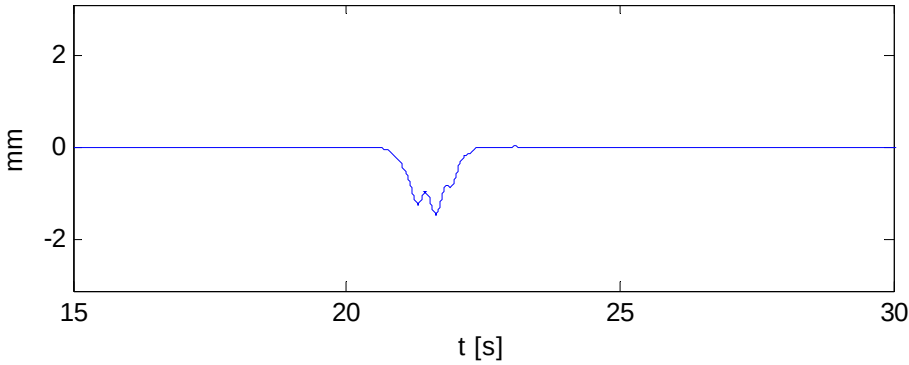
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P151

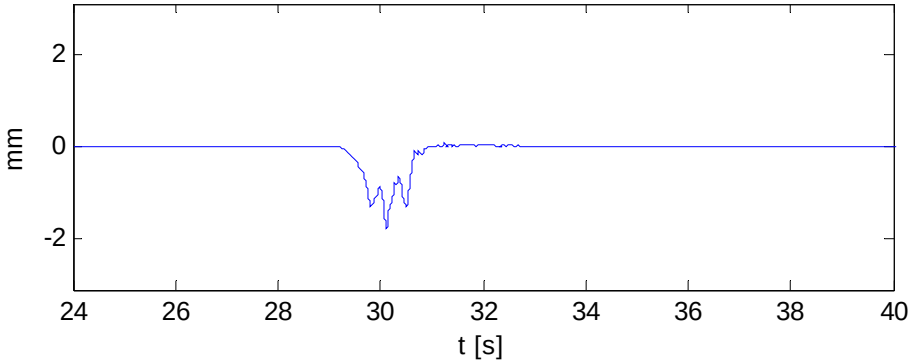
P: P151; Pr: DIN01; Max: 0.016; Min: -1.119; Rem: 6.7E-4



P: P151; Pr: DIN02; Max: 0.020; Min: -1.299; Rem: -8.9E-4



P: P151; Pr: DIN03; Max: 0.061; Min: -1.586; Rem: 3.9E-3

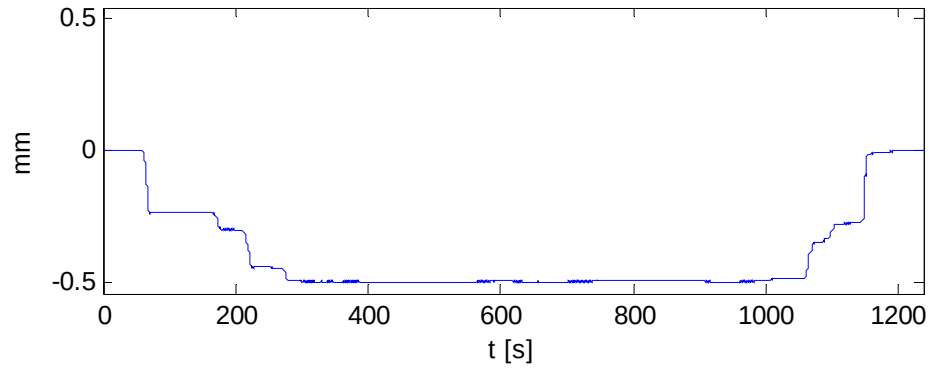


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P152

P: P152; Pr: EST01; Max: 2.9E-3; Min: -0.457; Rem: -0.001; Est: -0.499

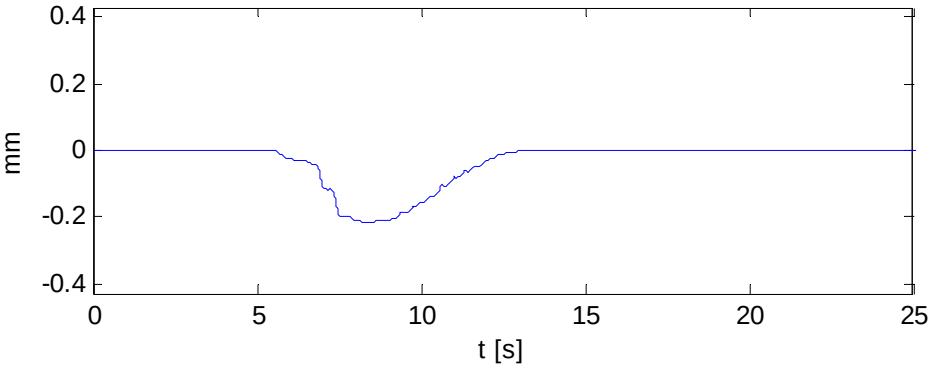


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

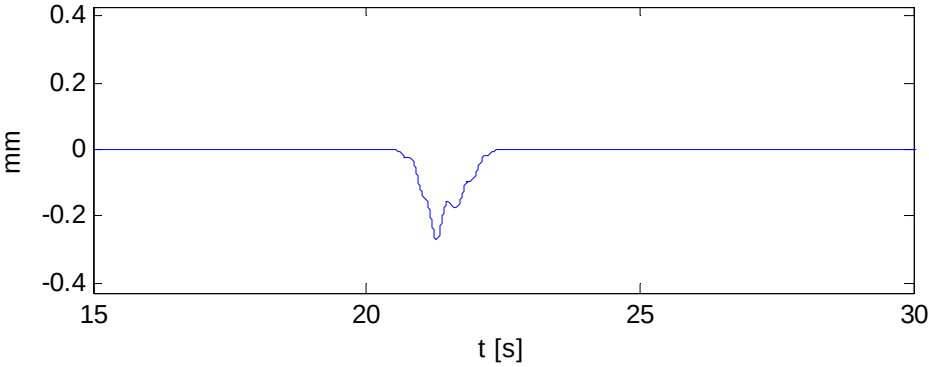
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P152

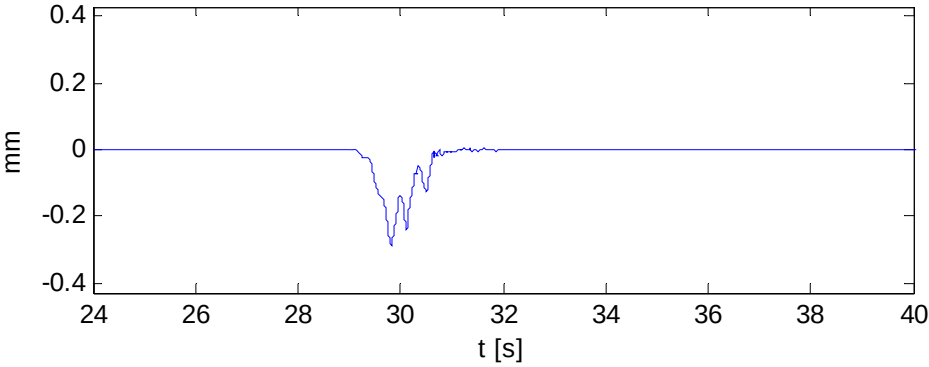
P: P152; Pr: DIN01; Max: 1.7E-3; Min: -0.196; Rem: 2.9E-4



P: P152; Pr: DIN02; Max: 9.7E-4; Min: -0.245; Rem: -4.0E-4



P: P152; Pr: DIN03; Max: 7.2E-3; Min: -0.259; Rem: 6.7E-4

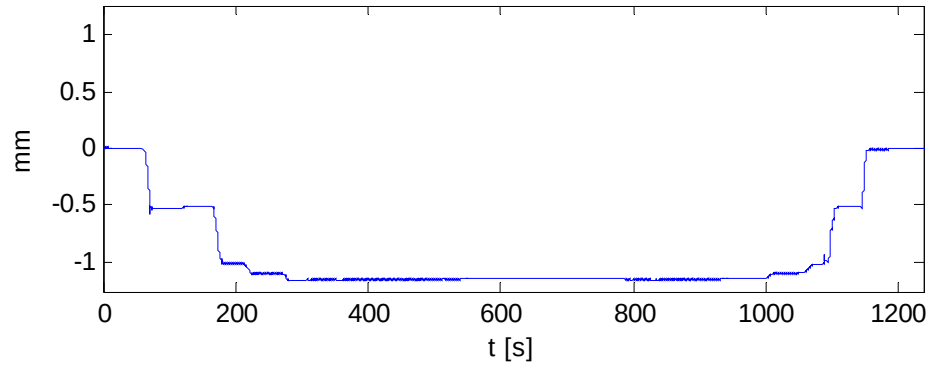


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P171

P: P171; Pr: EST01; Max: 9.5E-3; Min: -1.034; Rem: 4.9E-4; Est: -1.144

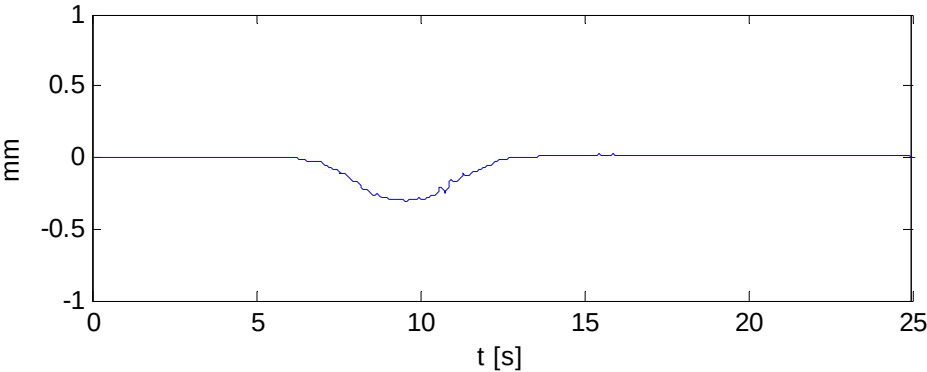


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

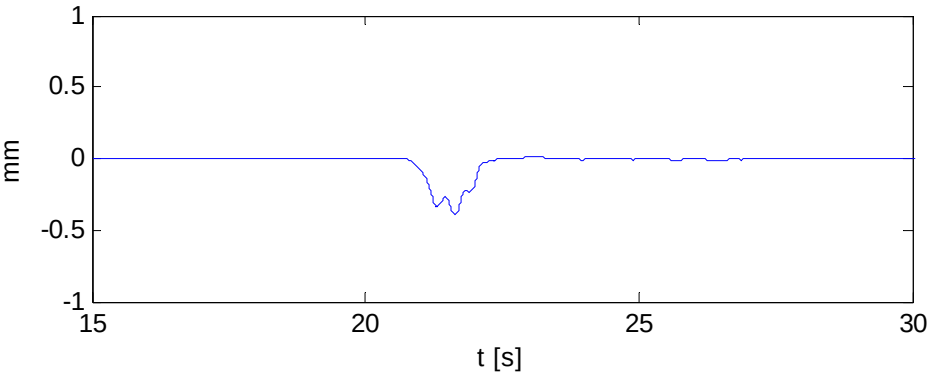
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P171

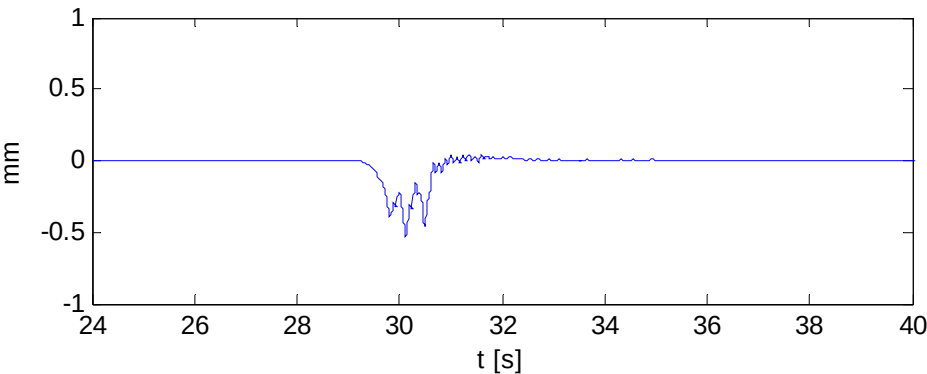
P: P171; Pr: DIN01; Max: 0.019; Min: -0.270; Rem: 1.0E-4



P: P171; Pr: DIN02; Max: 0.014; Min: -0.347; Rem: -2.3E-3



P: P171; Pr: DIN03; Max: 0.039; Min: -0.471; Rem: 3.5E-3

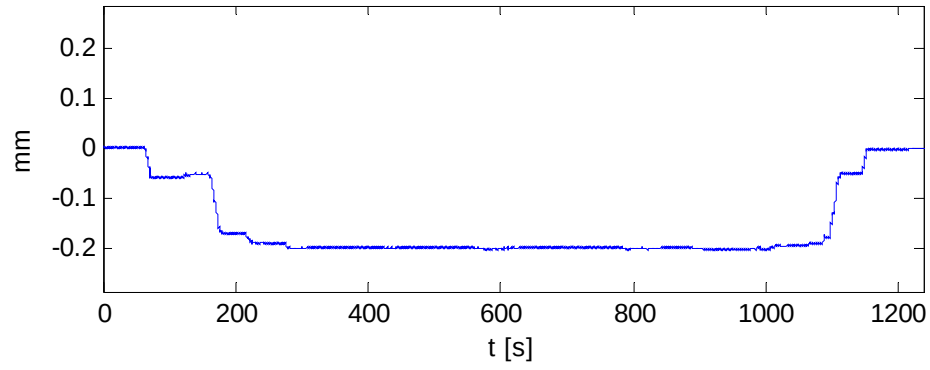


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P172

P: P172; Pr: EST01; Max: 4.3E-3; Min: -0.184; Rem: 3.4E-5; Est: -0.200

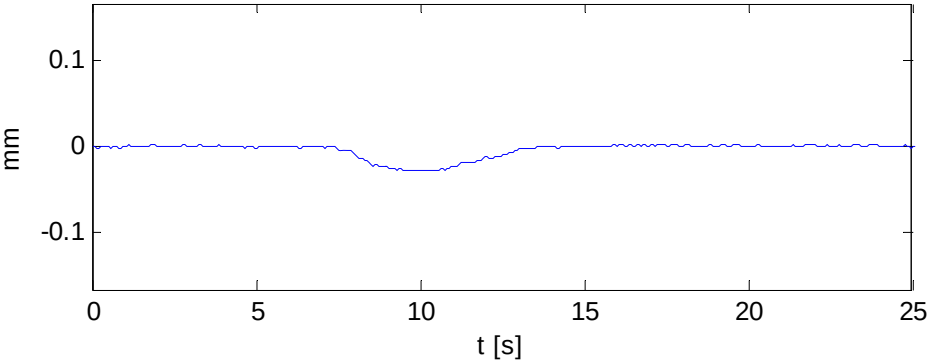


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

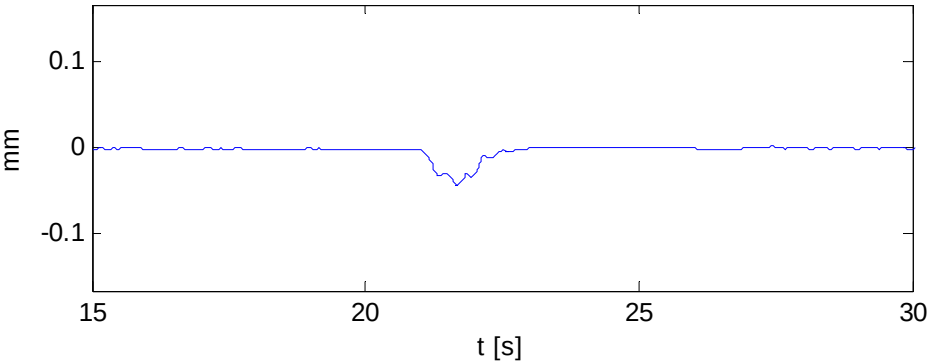
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P172

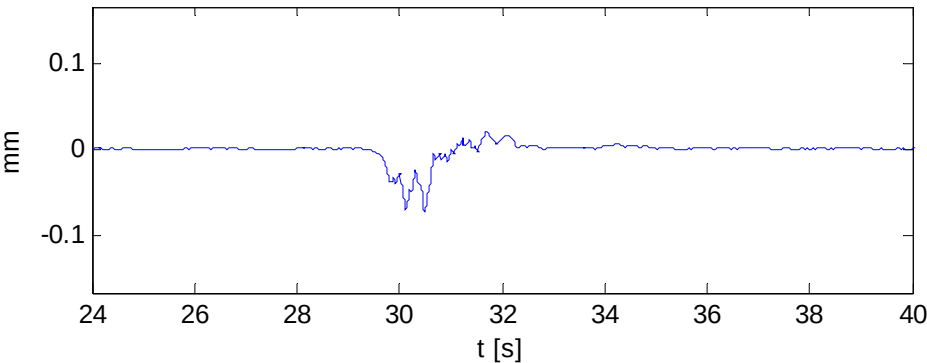
P: P172; Pr: DIN01; Max: 2.4E-3; Min: -0.026; Rem: -1.7E-4



P: P172; Pr: DIN02; Max: 1.3E-3; Min: -0.040; Rem: -1.3E-3



P: P172; Pr: DIN03; Max: 0.019; Min: -0.065; Rem: 0.002

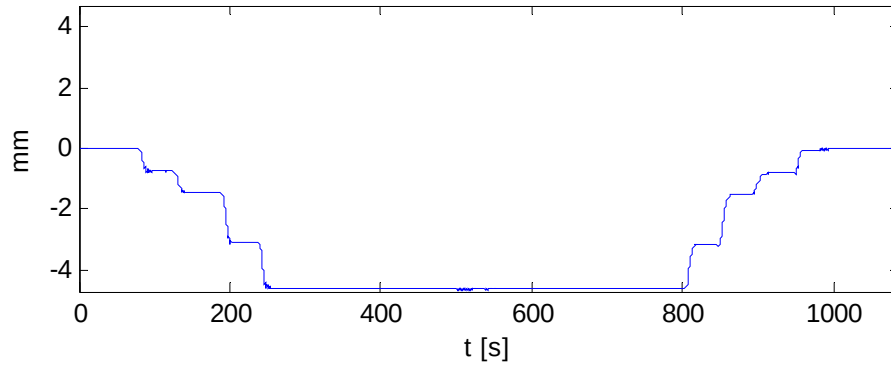


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P231

P: P231; Pr: EST02; Max: 0.010; Min: -4.152; Rem: -3.8E-3; Est: -4.646

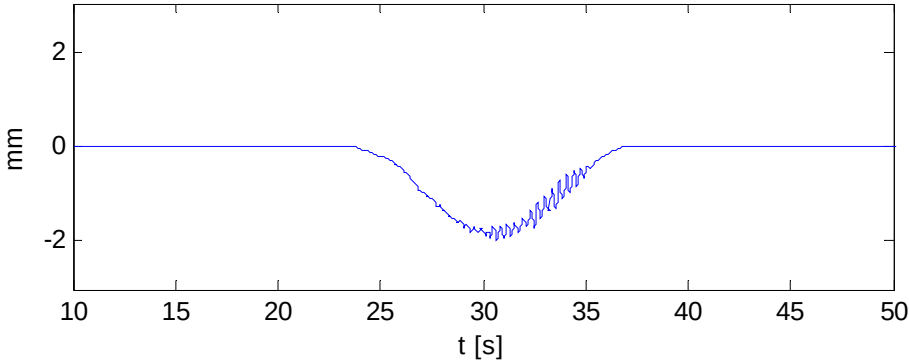


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

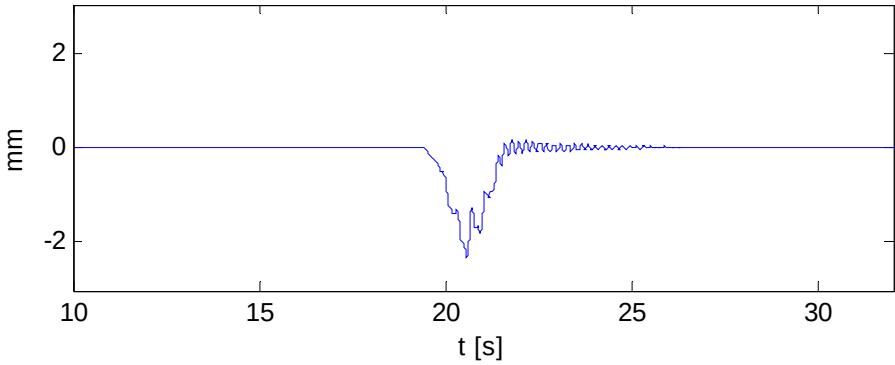
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P231

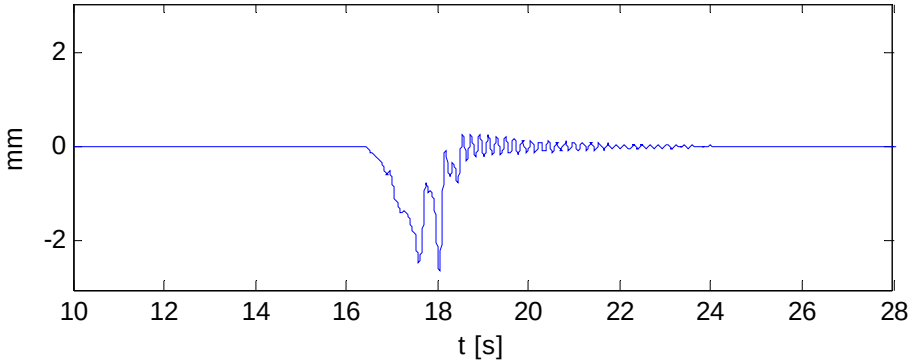
P: P231; Pr: DIN01; Max: 0.014; Min: -1.996; Rem: -9.8E-4



P: P231; Pr: DIN02; Max: 0.142; Min: -2.164; Rem: 0.004



P: P231; Pr: DIN03; Max: 0.248; Min: -2.424; Rem: 2.8E-3

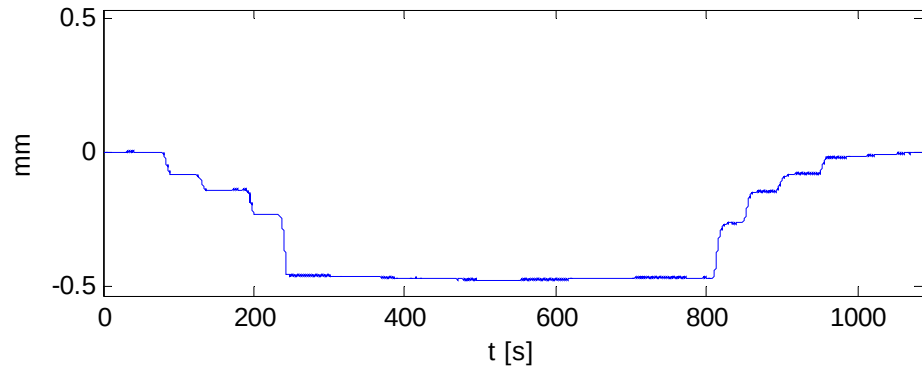


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P232

P: P232; Pr: EST02; Max: 4.4E-3; Min: -0.420; Rem: -0.002; Est: -0.473

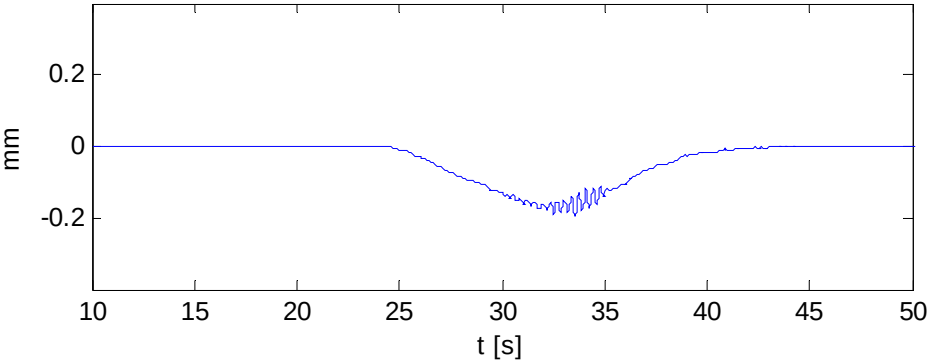


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

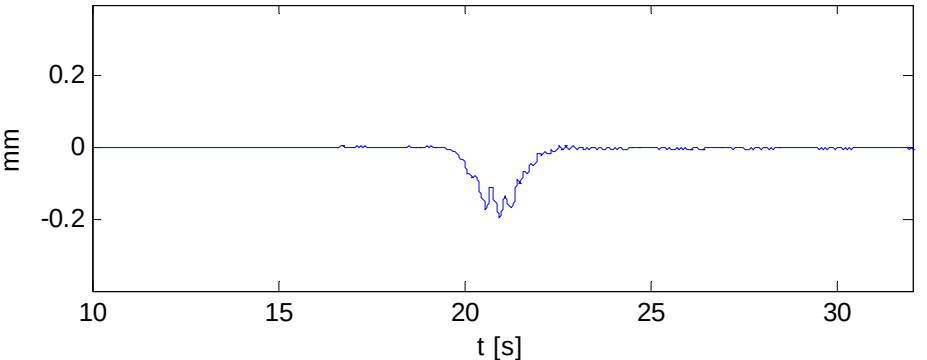
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P232

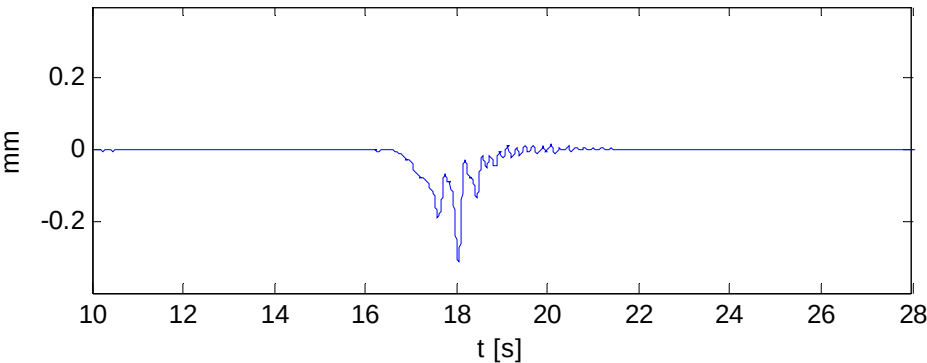
P: P232; Pr: DIN01; Max: 2.1E-3; Min: -0.193; Rem: -6.8E-4



P: P232; Pr: DIN02; Max: 5.6E-3; Min: -0.180; Rem: -2.7E-4



P: P232; Pr: DIN03; Max: 0.012; Min: -0.286; Rem: -2.1E-4

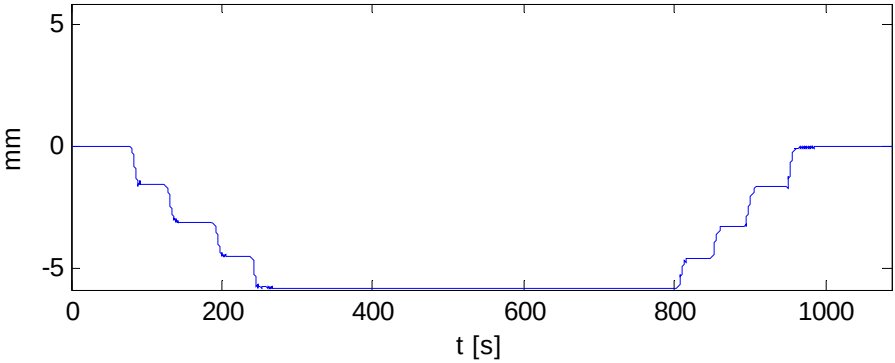


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P251

P: P251; Pr: EST02; Max: 0.010; Min: -5.789; Rem: -4.1E-3; Est: -5.786

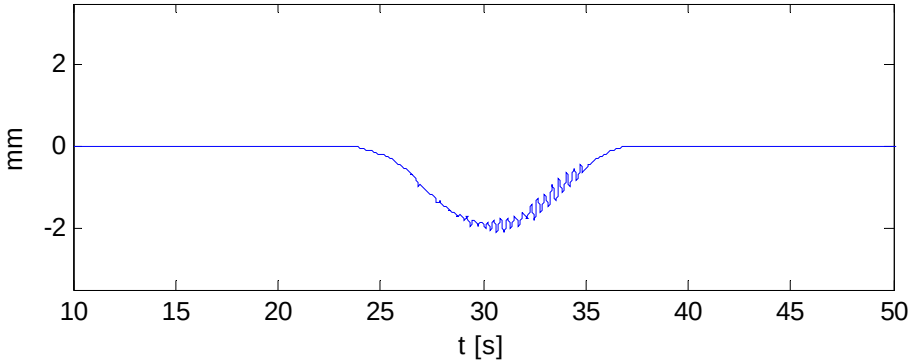


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

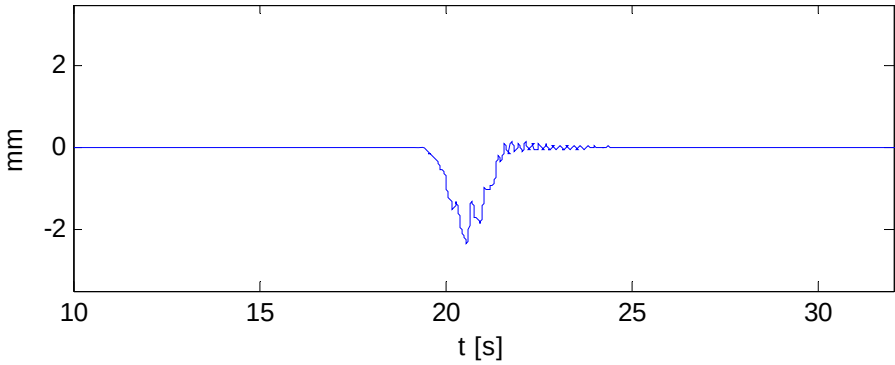
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P251

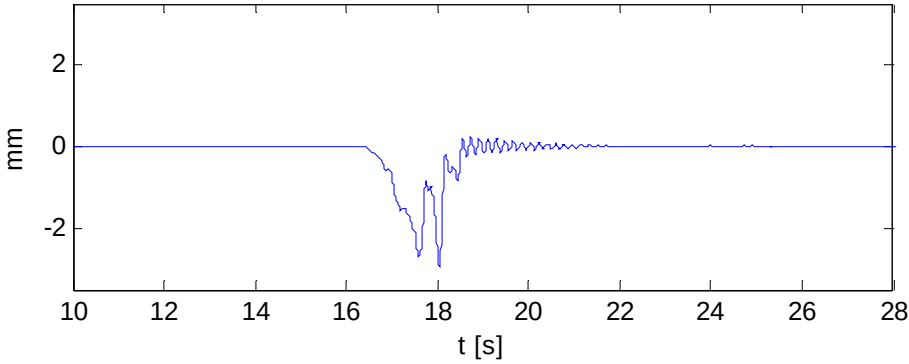
P: P251; Pr: DIN01; Max: 0.016; Min: -2.109; Rem: -0.001



P: P251; Pr: DIN02; Max: 0.128; Min: -2.357; Rem: 6.4E-4



P: P251; Pr: DIN03; Max: 0.225; Min: -2.970; Rem: 5.6E-3

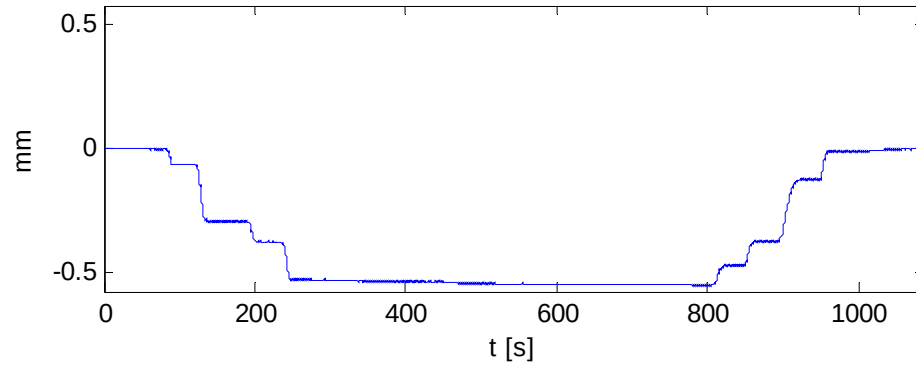


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P252

P: P252; Pr: EST02; Max: 3.8E-3; Min: -0.491; Rem: -1.8E-3; Est: -0.549

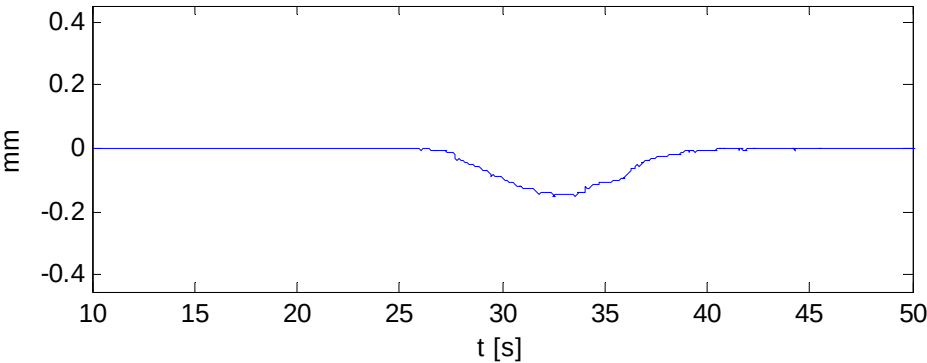


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

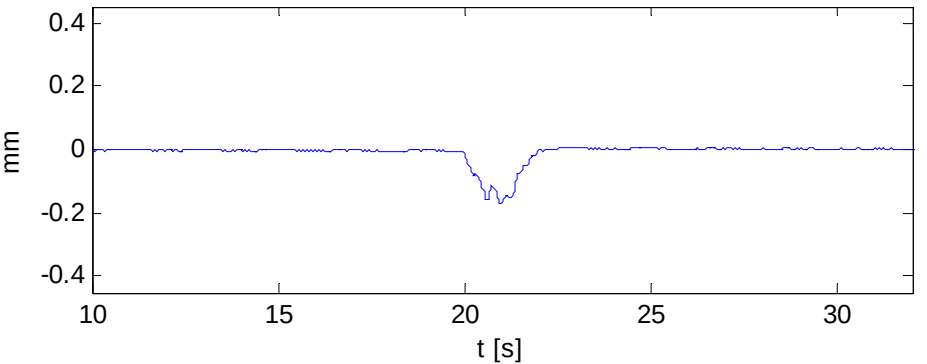
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P252

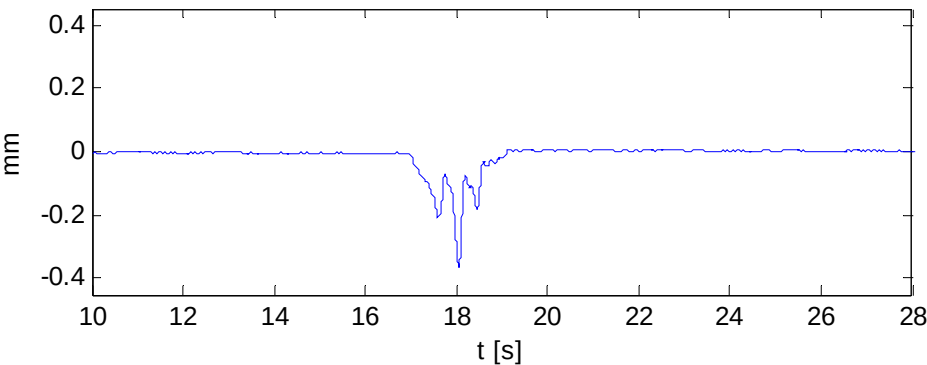
P: P252; Pr: DIN01; Max: 0.003; Min: -0.138; Rem: -0.001



P: P252; Pr: DIN02; Max: 0.005; Min: -0.159; Rem: 8.4E-5



P: P252; Pr: DIN03; Max: 7.3E-3; Min: -0.336; Rem: -5.1E-4

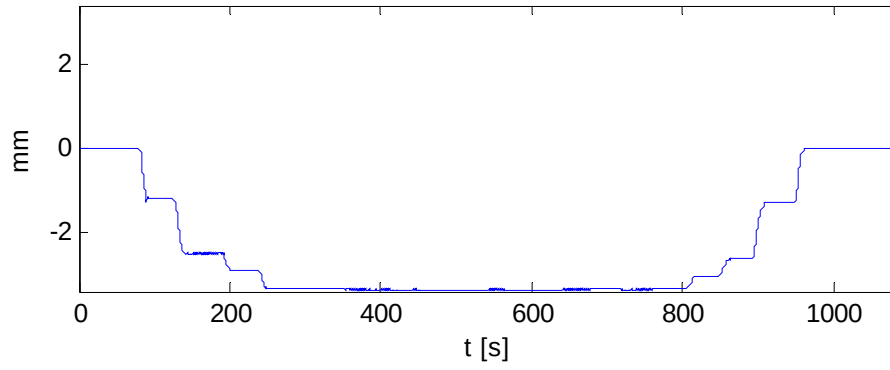


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P271

P: P271; Pr: EST02; Max: 8.7E-3; Min: -2.984; Rem: -4.1E-3; Est: -3.331

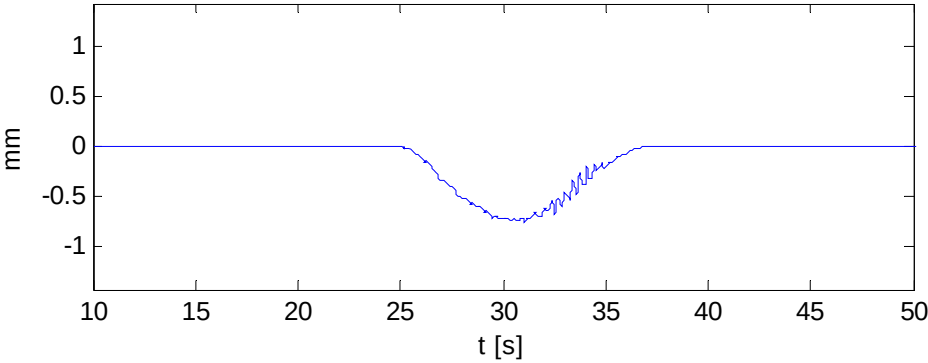


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

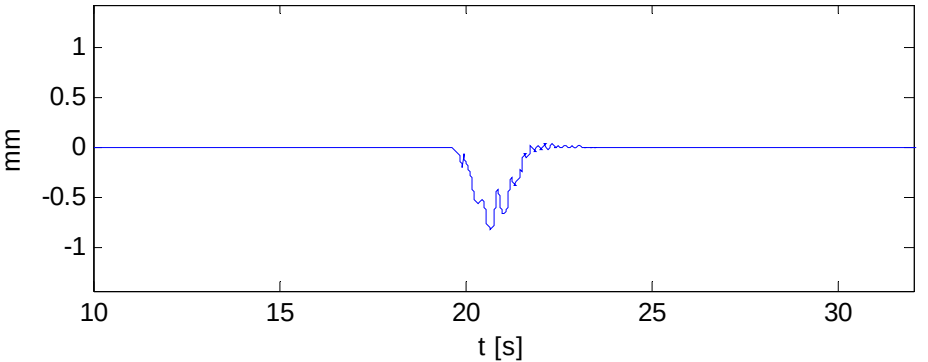
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P271

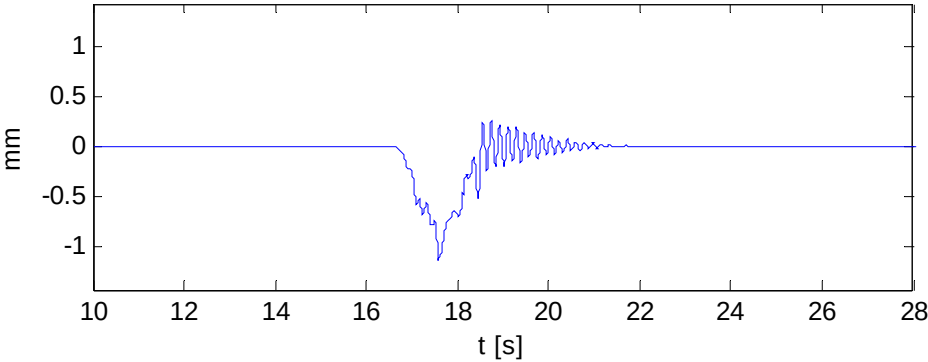
P: P271; Pr: DIN01; Max: 3.3E-3; Min: -0.707; Rem: -1.3E-3



P: P271; Pr: DIN02; Max: 0.037; Min: -0.757; Rem: 3.4E-4



P: P271; Pr: DIN03; Max: 0.231; Min: -1.046; Rem: -1.1E-5

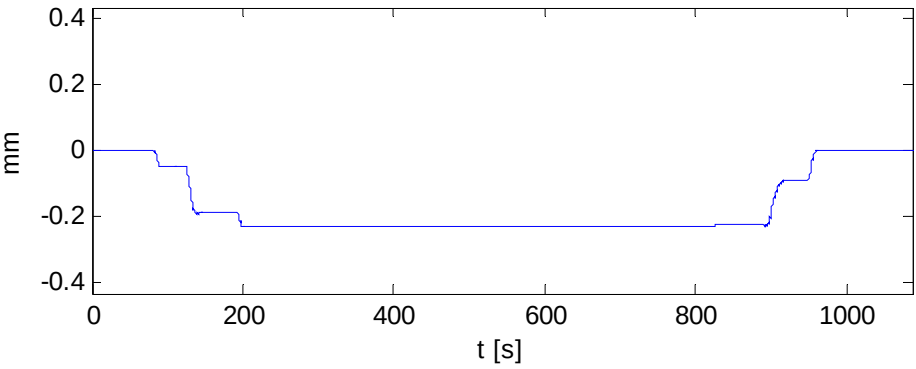


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P272

P: P272; Pr: EST02; Max: 0.002; Min: -0.213; Rem: -7.9E-4; Est: -0.229

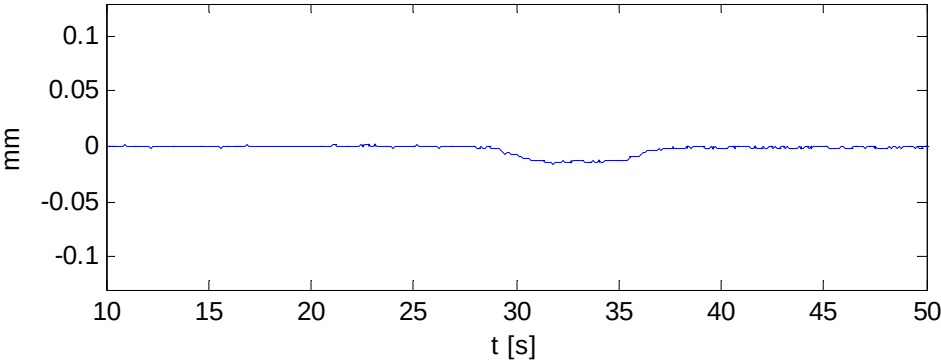


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

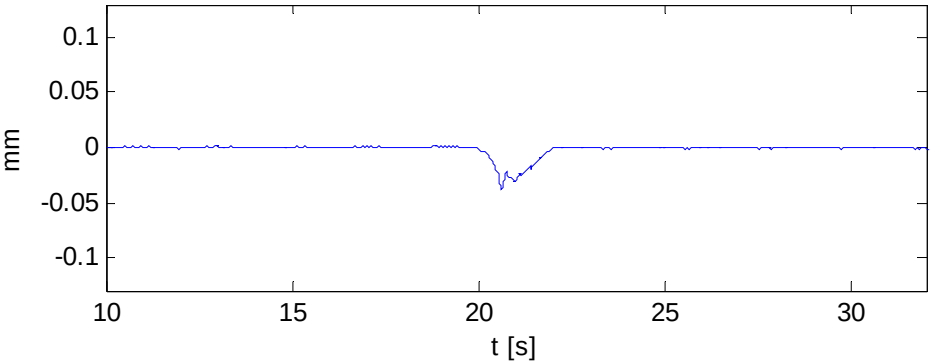
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P272

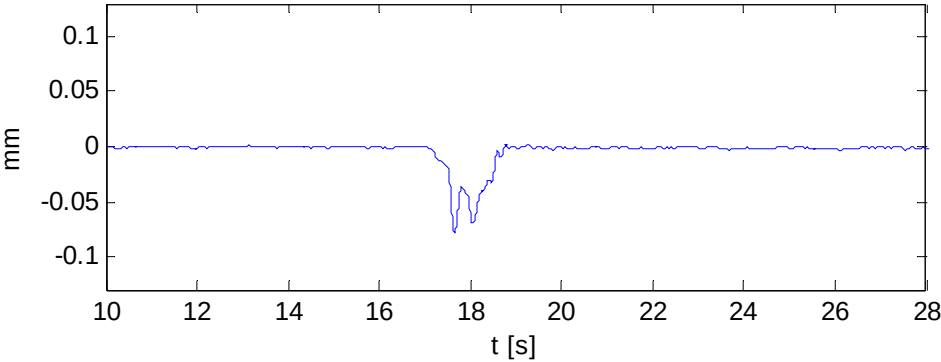
P: P272; Pr: DIN01; Max: 1.4E-3; Min: -0.014; Rem: -6.0E-4



P: P272; Pr: DIN02; Max: 1.5E-3; Min: -0.035; Rem: 9.9E-5



P: P272; Pr: DIN03; Max: 1.6E-3; Min: -0.071; Rem: -7.0E-4

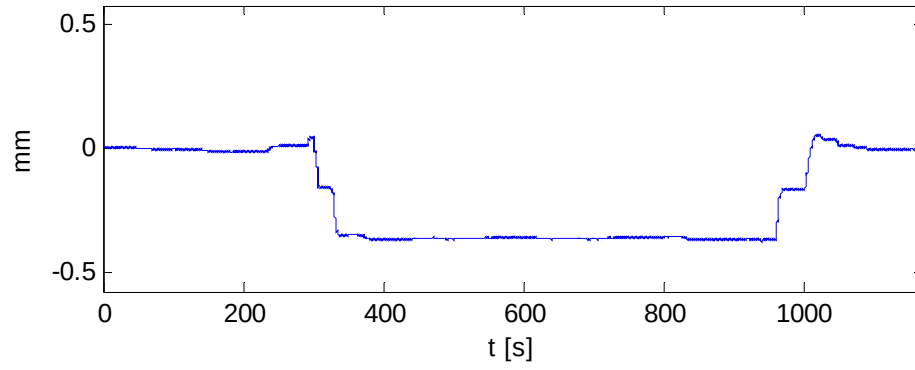


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P311

P: P311; Pr: EST03; Max: 0.049; Min: -0.339; Rem: -1.1E-3; Est: -0.362

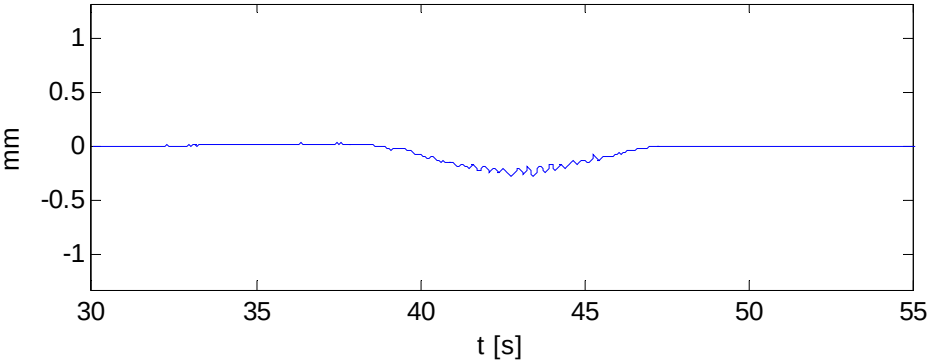


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

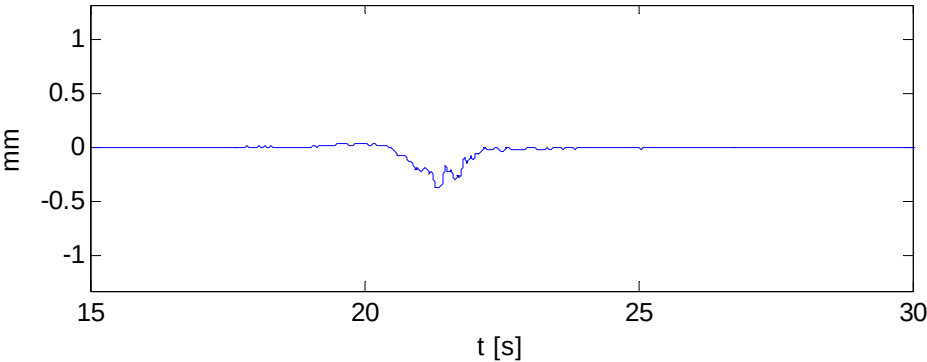
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P311

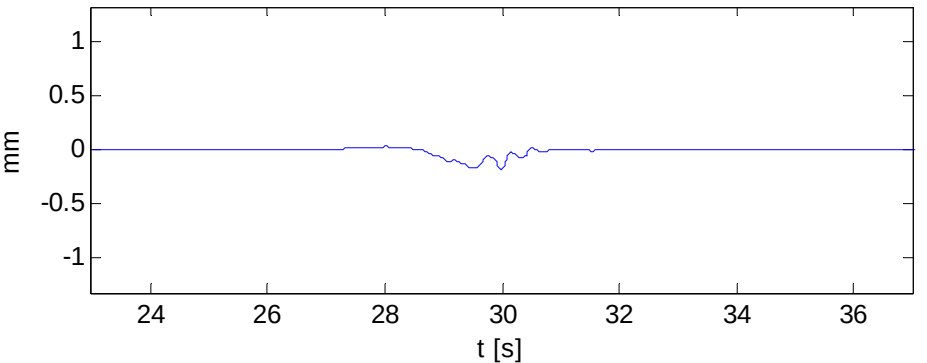
P: P311; Pr: DIN01; Max: 0.028; Min: -0.283; Rem: -1.8E-3



P: P311; Pr: DIN02; Max: 0.042; Min: -0.375; Rem: -0.001



P: P311; Pr: DIN03; Max: 0.029; Min: -0.179; Rem: 1.3E-3

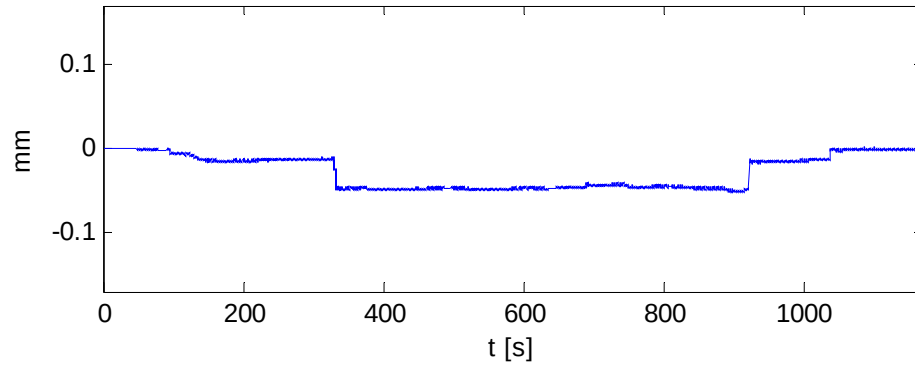


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P312

P: P312; Pr: EST03; Max: 1.4E-3; Min: -0.052; Rem: -6.9E-4; Est: -0.047

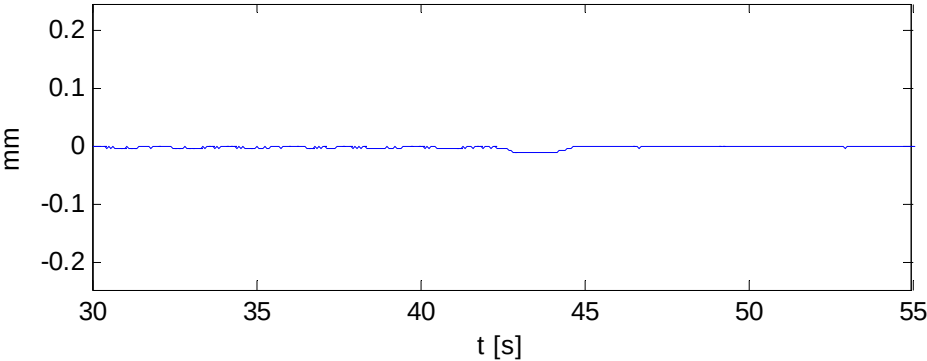


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

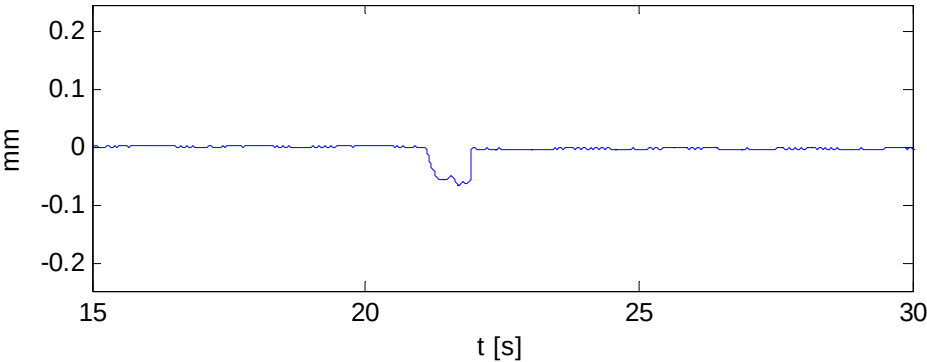
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P312

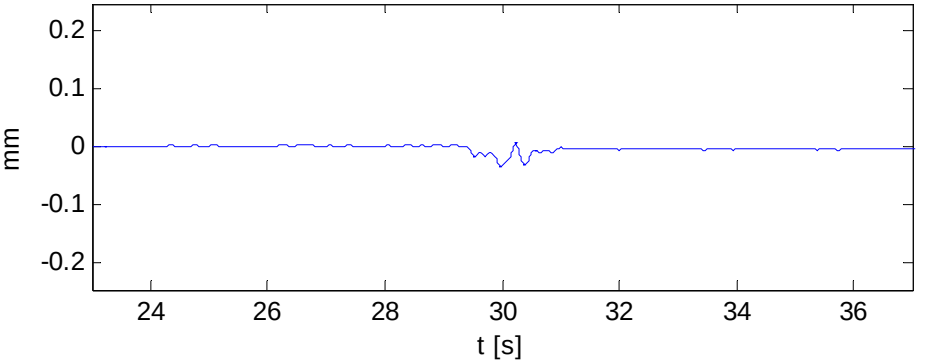
P: P312; Pr: DIN01; Max: 0.002; Min: -0.011; Rem: -7.9E-4



P: P312; Pr: DIN02; Max: 3.6E-3; Min: -0.064; Rem: -3.2E-4



P: P312; Pr: DIN03; Max: 5.6E-3; Min: -0.033; Rem: -2.5E-3

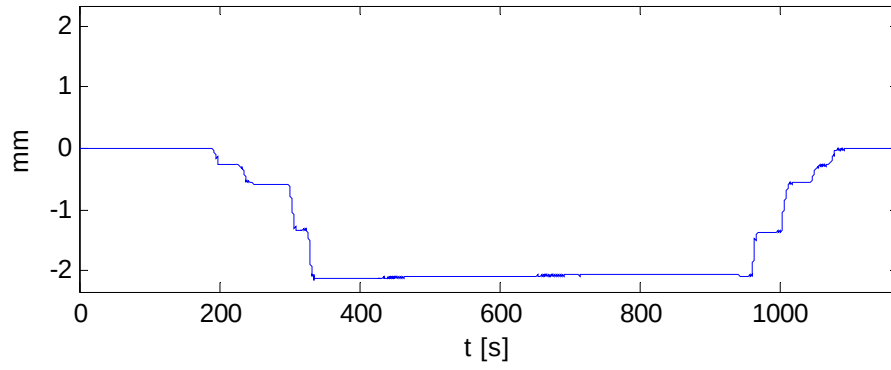


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P331

P: P331; Pr: EST03; Max: 0.012; Min: -1.923; Rem: -0.003; Est: -2.079

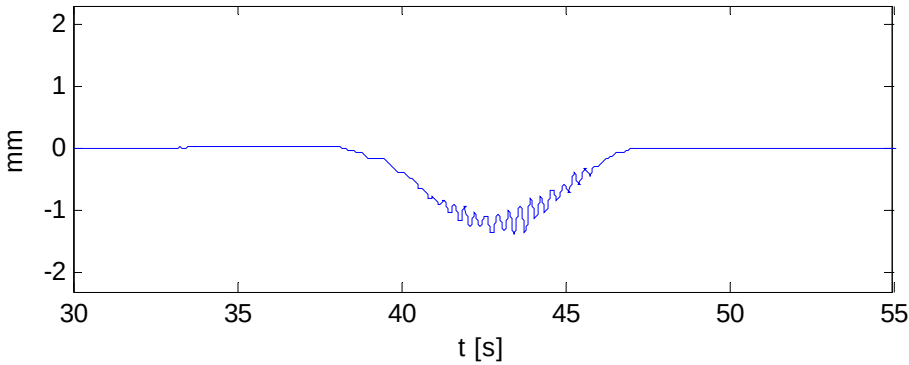


PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

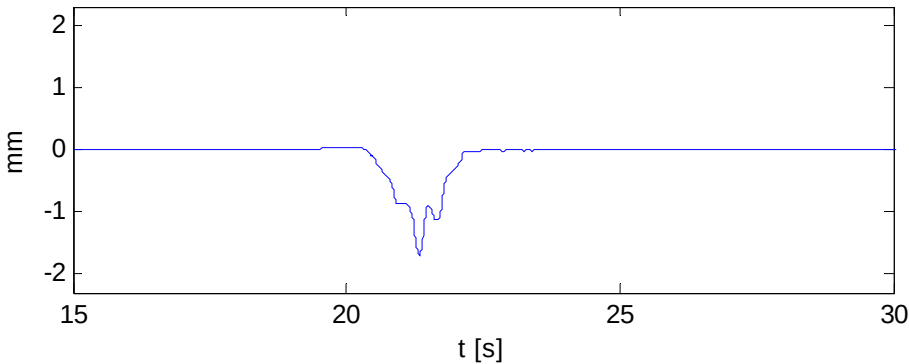
LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P331

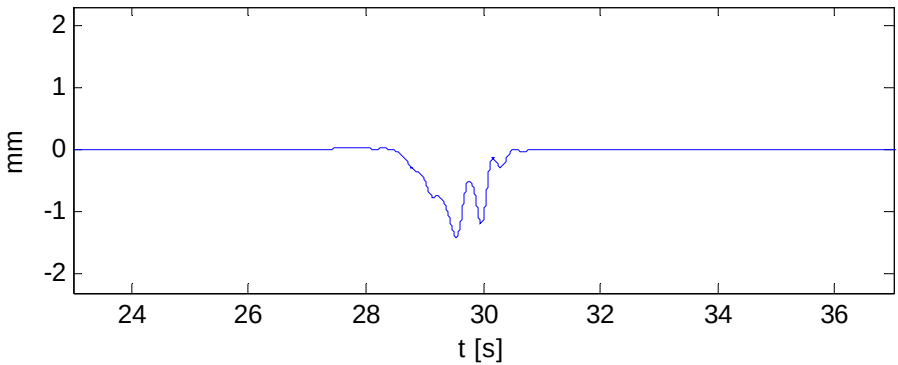
P: P331; Pr: DIN01; Max: 0.024; Min: -1.373; Rem: -1.1E-3



P: P331; Pr: DIN02; Max: 0.035; Min: -1.688; Rem: -8.2E-3



P: P331; Pr: DIN03; Max: 0.031; Min: -1.416; Rem: -0.003

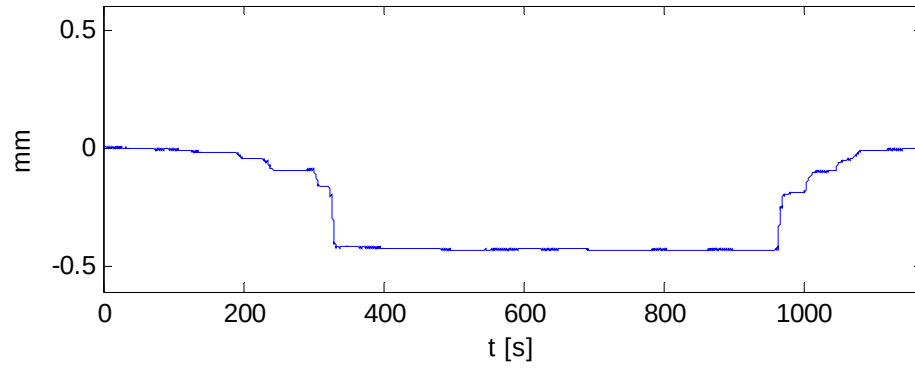


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P332

P: P332; Pr: EST03; Max: 7.5E-3; Min: -0.381; Rem: -1.4E-3; Est: -0.422

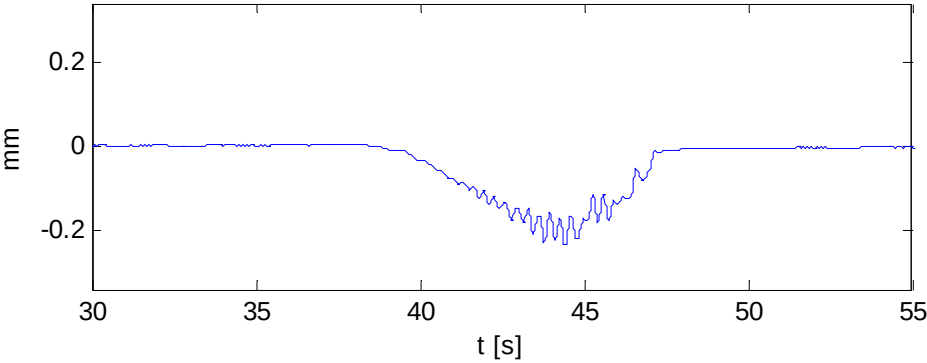


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

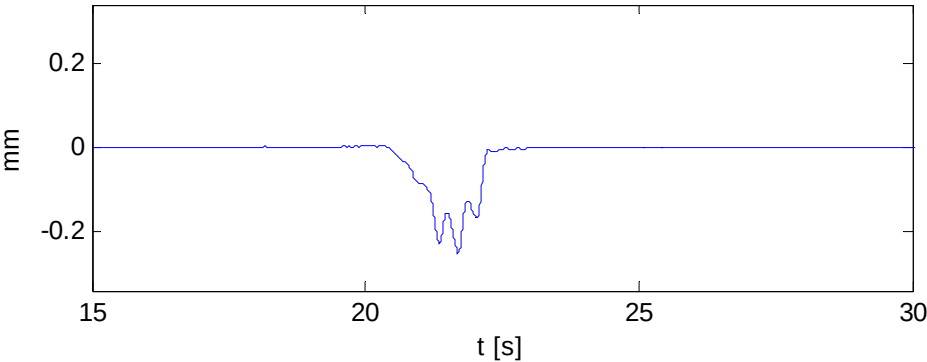
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P332

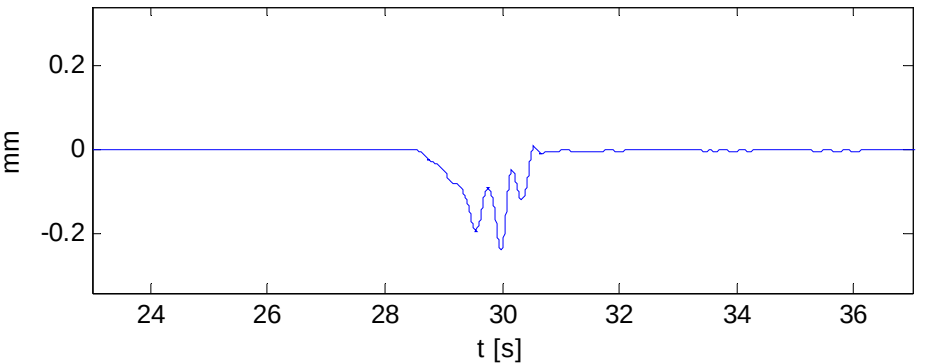
P: P332; Pr: DIN01; Max: 4.3E-3; Min: -0.239; Rem: -6.8E-4



P: P332; Pr: DIN02; Max: 3.4E-3; Min: -0.253; Rem: -8.5E-5



P: P332; Pr: DIN03; Max: 8.1E-3; Min: -0.238; Rem: -1.3E-3

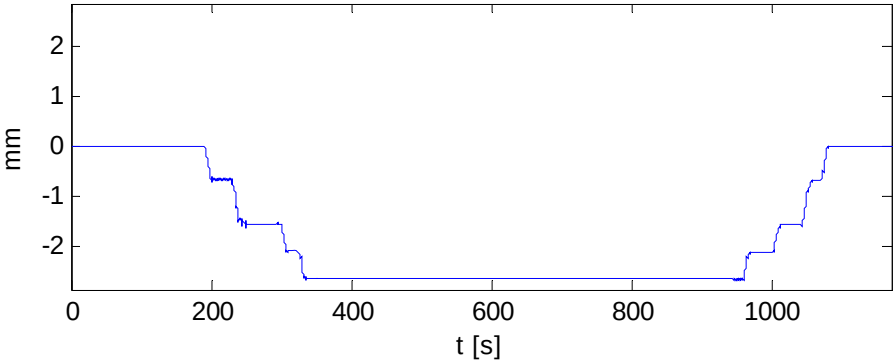


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P351

P: P351; Pr: EST03; Max: 0.012; Min: -2.410; Rem: -3.1E-3; Est: -2.646

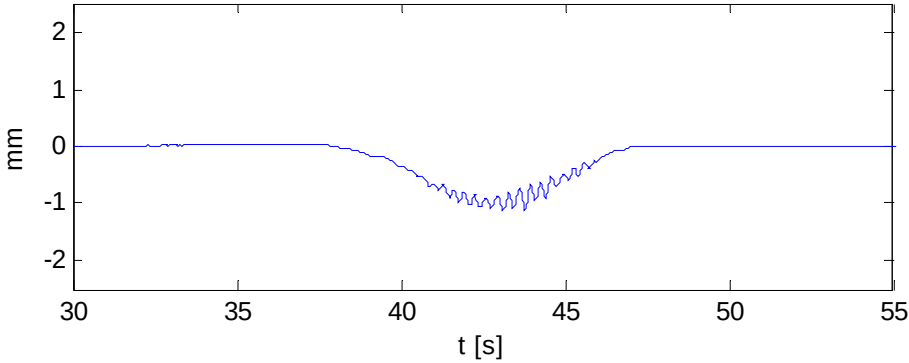


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

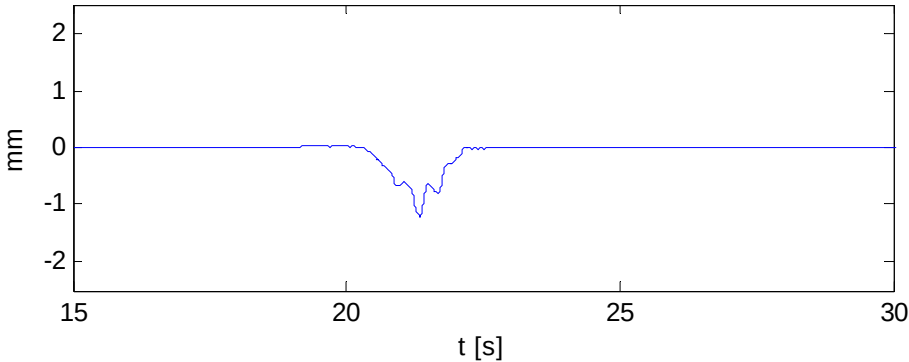
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P351

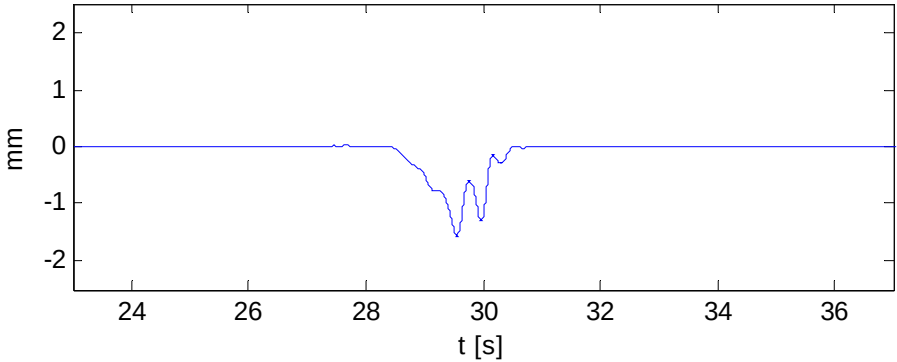
P: P351; Pr: DIN01; Max: 0.030; Min: -1.141; Rem: -0.010



P: P351; Pr: DIN02; Max: 0.046; Min: -1.225; Rem: -0.003



P: P351; Pr: DIN03; Max: 0.021; Min: -1.580; Rem: -4.1E-3

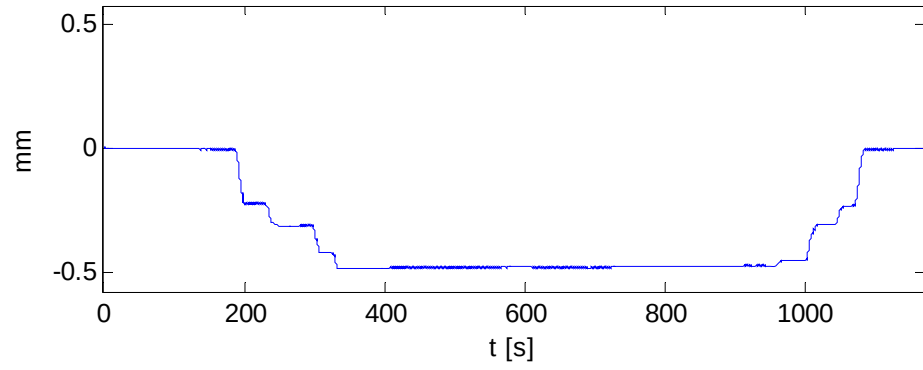


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P352

P: P352; Pr: EST03; Max: 3.8E-3; Min: -0.428; Rem: -0.001; Est: -0.477

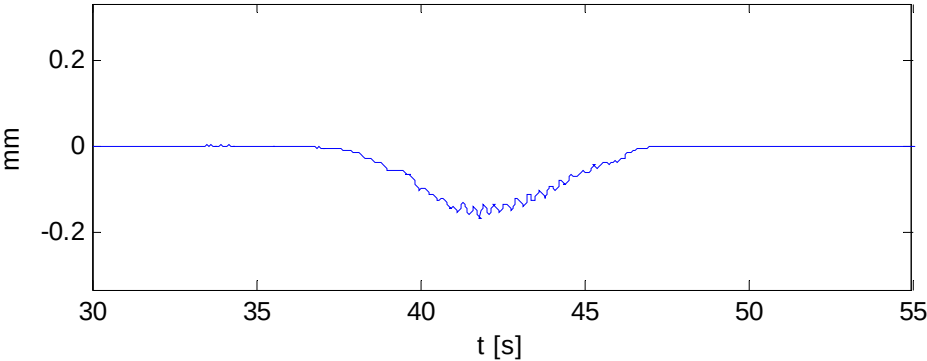


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

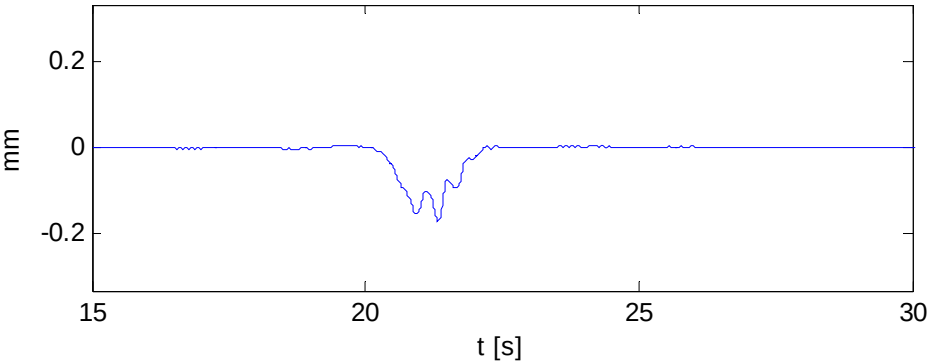
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P352

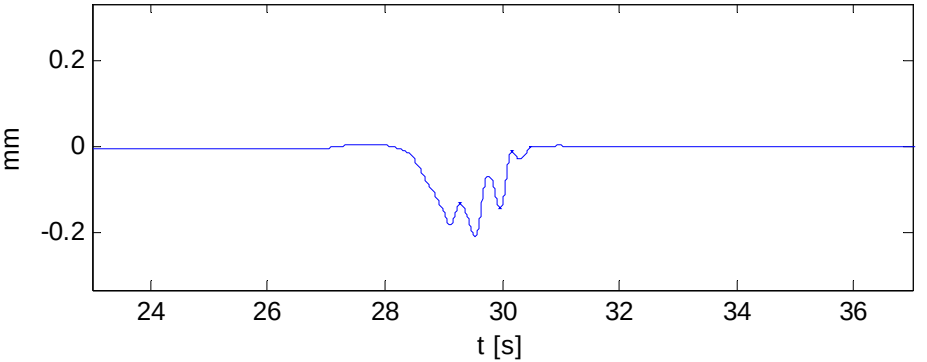
P: P352; Pr: DIN01; Max: 2.7E-3; Min: -0.166; Rem: -6.4E-4



P: P352; Pr: DIN02; Max: 6.4E-3; Min: -0.173; Rem: 1.0E-5



P: P352; Pr: DIN03; Max: 5.6E-3; Min: -0.209; Rem: -8.7E-4

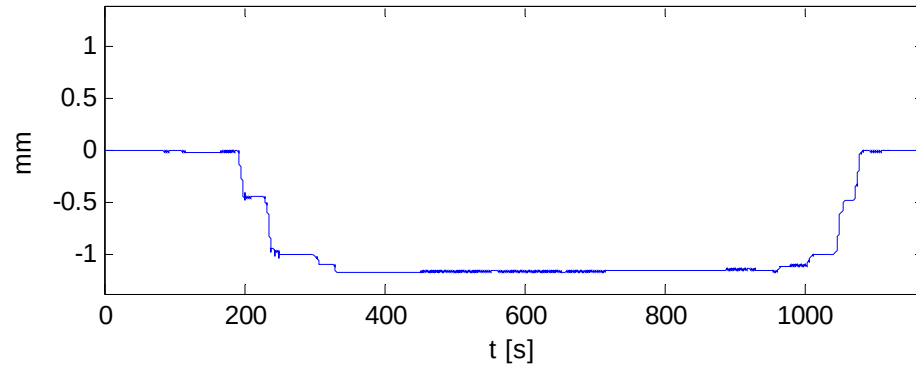


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P371

P: P371; Pr: EST03; Max: 7.8E-3; Min: -1.048; Rem: -2.1E-3; Est: -1.151

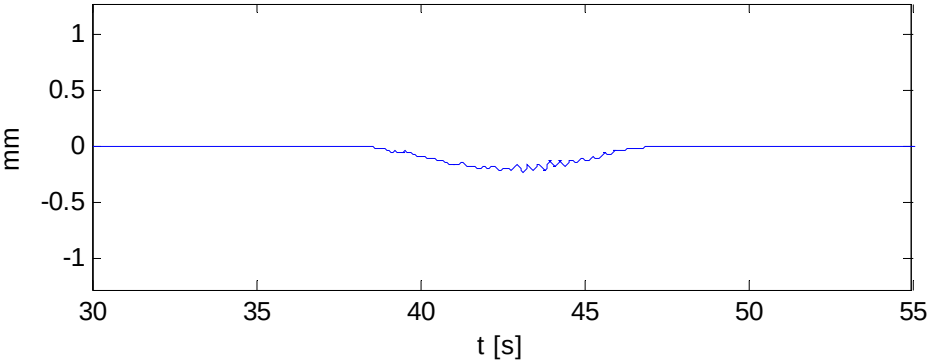


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

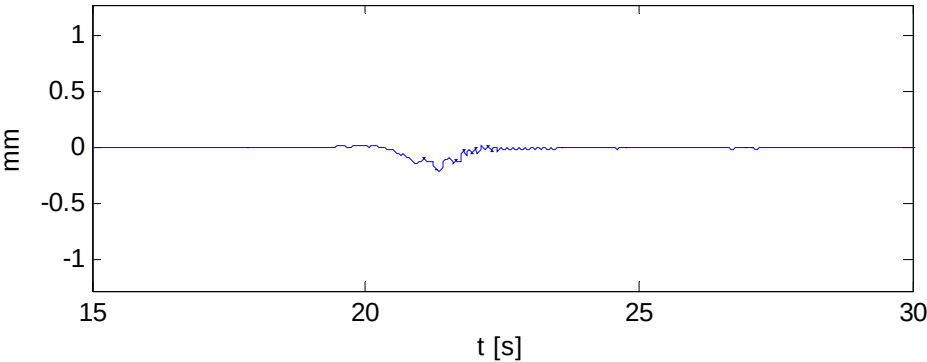
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P371

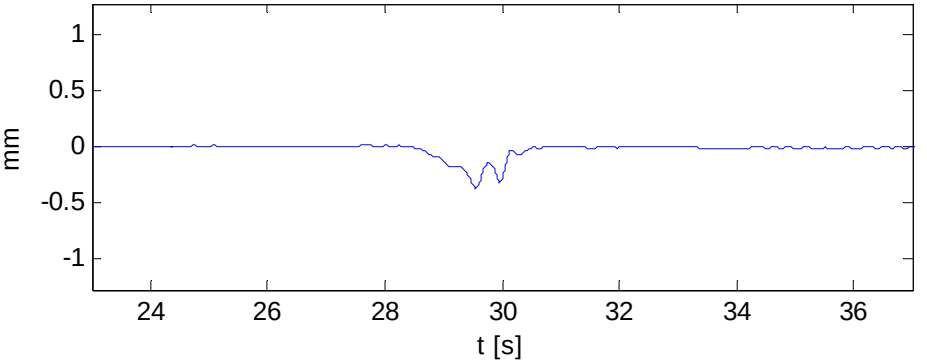
P: P371; Pr: DIN01; Max: 3.6E-3; Min: -0.225; Rem: -9.8E-4



P: P371; Pr: DIN02; Max: 0.024; Min: -0.214; Rem: -1.7E-3



P: P371; Pr: DIN03; Max: 0.017; Min: -0.372; Rem: -0.004

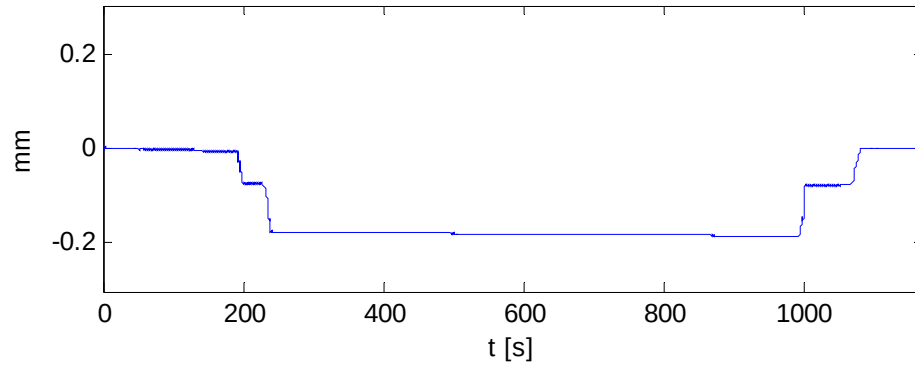


## PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)

### LINEA ZARAGOZA - ALSASUA P.K. 15/717

Punto: P372

P: P372; Pr: EST03; Max: 2.4E-3; Min: -0.165; Rem: -2.2E-4; Est: -0.181

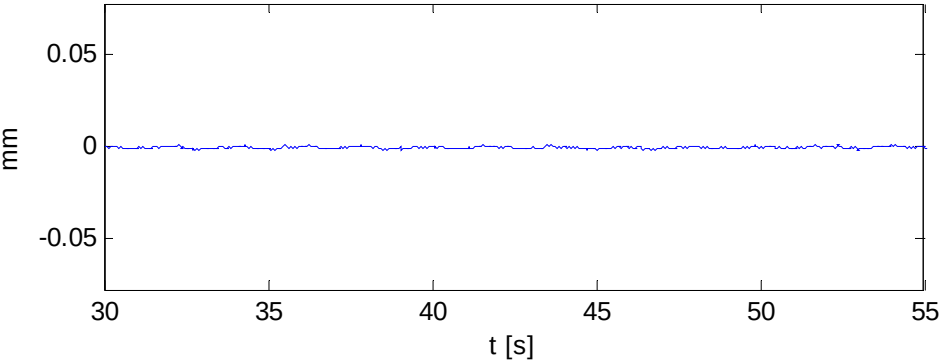


**PASO SUPERIOR PS-02, CASETAS (ZARAGOZA)**

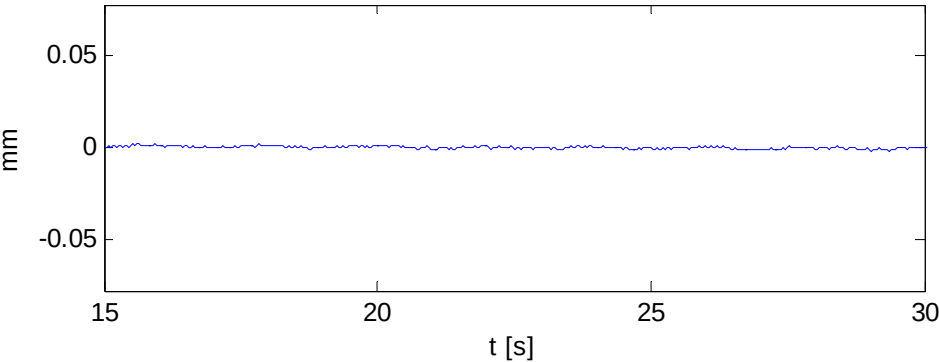
**LINEA ZARAGOZA - ALSASUA P.K. 15/717**

Punto: P372

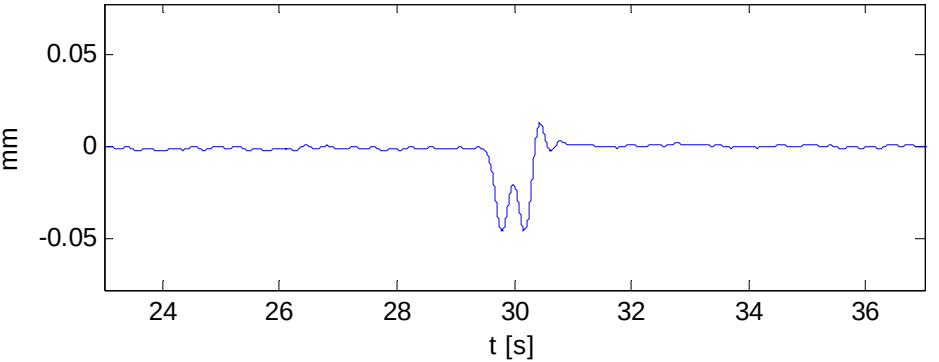
P: P372; Pr: DIN01; Max: 1.5E-3; Min: -0.002; Rem: -5.8E-4



P: P372; Pr: DIN02; Max: 2.1E-3; Min: -1.8E-3; Rem: 3.3E-5



P: P372; Pr: DIN03; Max: 0.013; Min: -0.045; Rem: 7.5E-5





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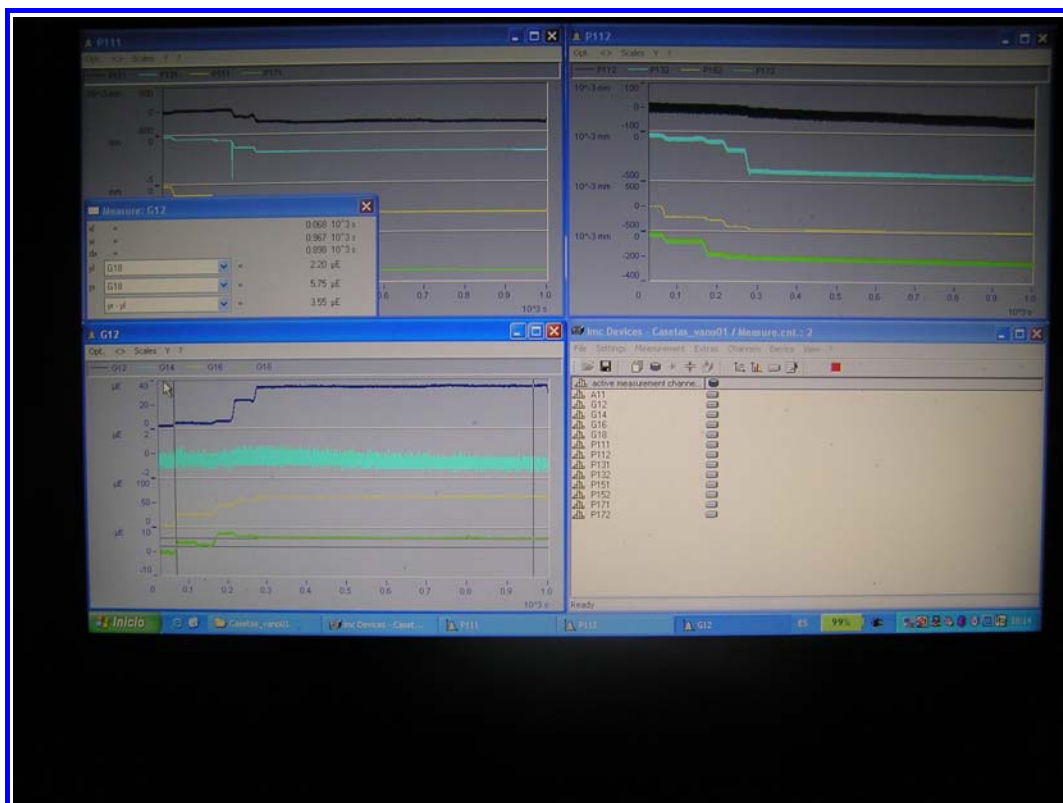
## **ANEJO 5: REPORTAJE FOTOGRÁFICO**

Madrid, Febrero de 2010

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FOTOGRAFÍA Nº 1: Vista general de la estructura.



FOTOGRAFÍA Nº 2: Ordenador de control durante los ensayos.



FOTOGRAFÍA N° 3: Equipo de adquisición de datos.



FOTOGRAFÍA N° 4: Equipos auxiliares utilizados durante la instrumentación.



FOTOGRAFÍA N° 5: Detalle transductor desplazamiento en centro de vano.



FOTOGRAFÍA N° 6: Detalle transductor desplazamiento en pila o estribo.



FOTOGRAFÍA N° 7: Detalle de galga extensométrica en centro de vano.



FOTOGRAFÍA N° 8: Acelerómetro.



FOTOGRAFÍA N° 9: Furgoneta laboratorio utilizada durante el ensayo.



FOTOGRAFÍA N° 10: Prueba estática.



FOTOGRAFÍA N° 11: Prueba estática (vista superior).



FOTOGRAFÍA N° 12: Detalle tablón normalizado RILEM.



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## **ANEJO 6: ACTA DE LA PRUEBA DE CARGA**

Madrid, Febrero de 2010

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### ACTA DE PRUEBA DE CARGA

|                 |                         |                  |               |
|-----------------|-------------------------|------------------|---------------|
| TIPO DE PRUEBA: | Recepción de obra nueva | FECHA DE PRUEBA: | 23-24/01/2010 |
|-----------------|-------------------------|------------------|---------------|

### IDENTIFICACIÓN ESTRUCTURA

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| ORGANISMO, COMPAÑÍA: | Dirección General de Infraestructuras Ferroviarias (Ministerio de Fomento) |
| LÍNEA:               | Zaragoza - Alsasua                                                         |
| TRAMO:               | -                                                                          |
| P.K.:                | 15/717                                                                     |
| PROVINCIA:           | Zaragoza                                                                   |
| DENOMINACIÓN         | Estructura 2 de la supresión del paso a nivel en Casetas (Zaragoza)        |
| REFERENCIA:          | PC-Z-10-12                                                                 |

DESCRIPCIÓN DE LA ESTRUCTURA O PARTE DE ELLA: La estructura está compuesta por tres vanos isostáticos de luces 16,30 m – 20,90 m – 16,30 m entre ejes de apoyo siendo la longitud total del puente de 53,50 metros. Se trata de una estructura esviada, con un esviaje de 6,803°. La sección superior está formada por dos carriles de 3,50 metros de anchura, dos arcones de 1,00 metros y dos aceras de 1,80 metros. La sección transversal del tablero estará formada por 8 vigas prefabricadas pretensadas con sección tipo de doble T y un canto de 0,90 metros. Sobre ellas y siendo la cabeza de compresión de las mismas, se dispone una losa de hormigón armado con un espesor mínimo de 0,20 metros, con una anchura de 14,00 metros.

### ASISTENTES

|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| NOMBRES                         | ORGANISMO, COMPAÑÍA                                       |
| D. Juan Carlos Aceituno Pinilla | Dirección General de Infraestructuras Ferroviarias (DGIF) |
| D. Pablo Sánchez Gareta         | Ingeniería y Economía del Transporte, S.A. (INECO)        |

### CONDICIONES ATMOSFÉRICAS

|                     |                       |
|---------------------|-----------------------|
| Temperatura: 9,4 °C | Humedad relativa: 48% |
|---------------------|-----------------------|

### PUNTOS DE MEDIDA INSTALADOS

|                         |                          | Vano 01 | Vano 02 | Vano 03 |
|-------------------------|--------------------------|---------|---------|---------|
| FLECHAS                 | EQUIPO ÓPTICO            | -       | -       | -       |
|                         | TRANS. DE DESPLAZAMIENTO | 6       | 6       | 6       |
| DEFORMACIONES UNITARIAS | BANDAS EXTENSOMÉTRICAS   | 3       | 3       | 3       |
| REGISTRO DE VIBRACIONES | ACELERÓMETRO             | 1       | 1       | 1       |
| OTROS                   |                          | -       | -       | -       |

### TRENES DE CARGA UTILIZADOS

| VEHÍCULO      |               | NÚMERO | MATRÍCULAS | PESO UNITARIO (T) |                  |
|---------------|---------------|--------|------------|-------------------|------------------|
| PREVISTO      | REAL          |        |            | PREVISTO          | REAL             |
| Camión 3 ejes | Camión 3 ejes | 1      | 5790 DTC   | 26 toneladas      | 26.620 toneladas |
| Camión 3 ejes | Camión 3 ejes | 1      | 6493 DSN   | 26 toneladas      | 25.780 toneladas |
| Camión 3 ejes | Camión 3 ejes | 1      | 8439 CZS   | 26 toneladas      | 25.780 toneladas |
| Camión 3 ejes | Camión 3 ejes | 1      | 4177 DSH   | 26 toneladas      | 26.300 toneladas |

PORCENTAJE DE SOLICITACIÓN RESPECTO A INSTRUCCIÓN 66%

SENTIDO DE CIRCULACIÓN PARA LAS PRUEBAS DINÁMICAS: De estribo entrada a estribo salida

HORA DE COMIENZO: 18 horas y 02 minutos

### RESULTADOS BÁSICOS ALCANZADOS EN LA ESTRUCTURA

|                                                                 |          |                                                                                                   |                         | Vano 01                          | Vano 02  | Vano 03       |          |
|-----------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------|-------------------------|----------------------------------|----------|---------------|----------|
| PORCENTAJE DE RESPUESTA RESPECTO AL PROYECTO DE PRUEBA DE CARGA | Estática | En general                                                                                        | Flechas                 | 66%                              | 64%      | 69%           |          |
|                                                                 |          |                                                                                                   | Deformaciones unitarias | 114%                             | 109%     | 122%          |          |
|                                                                 |          | Pruebas simplificadas                                                                             | Flechas                 |                                  |          |               |          |
|                                                                 |          |                                                                                                   | Deformaciones unitarias |                                  |          |               |          |
|                                                                 | Dinámica | Frecuencia propia de vibración                                                                    |                         |                                  | 8,955 Hz | 5,497 Hz      | 8,586 Hz |
| PORCENTAJE DE RECUPERACIÓN                                      | Estática | En general                                                                                        | Flechas                 | 97%                              | 100%     | 100%          |          |
|                                                                 |          |                                                                                                   | Deformaciones unitarias | 100%                             | 100%     | 100%          |          |
| ANOMALIAS EN LA INSPECCIÓN VISUAL                               |          | No se detecto ninguna anomalía                                                                    |                         |                                  |          |               |          |
| OBSERVACIONES                                                   |          | La colocación de camiones se realizó conforme a lo establecido en el Proyecto de Prueba de Carga. |                         |                                  |          |               |          |
| CONDICIONES DE PUESTA EN SERVICIO                               |          | APTO <input checked="" type="checkbox"/>                                                          |                         | NO APTO <input type="checkbox"/> |          | RESTRICCIONES |          |

D. Pablo Sánchez Gareta  
por Ingeniería y Economía del Transporte, S.A. (INECO)

D. Juan Carlos Aceituno Pinilla  
por Dirección General de Infraestructuras Ferroviarias (DGIF)

PERGA S.L.  
GRAVERA SAN ROQUE  
PEDROLA (ZARAGOZA)

FECHA: 22-01-2010  
HORA: 18:44  
ALBARAN NUMERO: 2034

MATRICULA: 6493DSNCA  
PRODUCTO:  
CLIENTE:  
PROVEEDOR:

UNICA PESADA: B1  
FECHA: 22-01-2010 HORA: 18:44  
Kg.: 25780

BRUTO kg: 25780  
TARA kg : 16420  
  
NETO kg : 9360

PERGA S.L.  
GRAVERA SAN ROQUE  
PEDROLA (ZARAGOZA)

FECHA: 22-01-2010  
HORA: 18:43  
ALBARAN NUMERO: 2033

MATRICULA: 9439CZSCA  
PRODUCTO:  
CLIENTE:  
PROVEEDOR:

UNICA PESADA: B1  
FECHA: 22-01-2010 HORA: 18:42  
Kg.: 25780

BRUTO kg: 25780  
TARA kg : 17320  
  
NETO kg : 8460

PERGA S.L.  
GRAVERA SAN ROQUE  
PEDROLA (ZARAGOZA)

FECHA: 22-01-2010  
HORA: 18:11  
ALBARAN NUMERO: 2032

MATRICULA: 4177DSH  
PRODUCTO:  
CLIENTE:  
PROVEEDOR:

UNICA PESADA: B1  
FECHA: 22-01-2010 HORA: 18:11  
Kg.: 26300

BRUTO kg: 26300  
TARA kg : 15300  
  
NETO kg : 11000

PERGA S.L.  
GRAVERA SAN ROQUE  
PEDROLA (ZARAGOZA)

FECHA: 22-01-2010  
HORA: 18:50  
ALBARAN NUMERO: 2035

MATRICULA: 5790DTCCA  
PRODUCTO:  
CLIENTE:  
PROVEEDOR:

UNICA PESADA: B1  
FECHA: 22-01-2010 HORA: 18:50  
Kg.: 26620

BRUTO kg: 26620  
TARA kg : 16300  
  
NETO kg : 10320



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## **ANEJO 7: COPIA EN SOPORTE DIGITAL**

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