# 臺中市合作國小
# 活動中心興建工程

# 結

# 構

# 計

# 算

# 書

建築基地：臺中市豐原區
建築設計：王銘顯建築師事務所
結構設計：大匠工程顧問有限公司

中　華　民　國　一　一　三　年　三　月

結構電子計算機程式：
程式名稱：CSI-ETABS 程式（Version 2019）

一冊共64頁

# 臺中市建造執照結構設計自主檢查表 目錄

工程名稱:台中市北屯區　　段　小段　　地號等　　筆土地

新建工程

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副 本

發文方式：紙本郵寄

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發文日期：中華民國110年6月11日
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附件：

請轉知全体會員。
李仲樹 6/21

主旨：有關中華民國土木技師公會全國聯合會審查通過之「ETABS V19.**」結構分析程式乙案，本局同意備查仍請依說明事項辦理，復請查照。

說明：

一、依據中華民國土木技師公會全國聯合會110年5月5日土技全聯(110)字第111號及暨結構應用電子計算機程式認證書(土全結軟登字第026號)及建築技術規則建築構造篇第七條規定暨內政部90年1月15日台(90)內營字第9082175號函結論辦理。

二、本計算機程式「ETABS V19.**」之程式經銷商「眾元電腦有限公司」，於本市轄範圍內自110年5月5日起使用至114年5月4日止，惟使用者據以完成之分析及設計結果仍應自行研判其正確性並負設計責任。

三、副本加發本市轄相關公會，惠請通告所屬會員。

正本：眾元電腦有限公司
副本：臺中市建築師公會、社團法人臺中市土木技師公會、臺中市結構工程技師公會、本局建造管理科

局長 黃文彬

臺中市結構工程技師公會 110.6.21 收文章 621

檔　　號：
保存年限：

正本

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受文者：眾元電腦有限公司

發文日期：中華民國 110 年 5 月 5 日
發文字號：土技全聯(110)字第 111 號
速別：速件
密等及解密條件或保密期限：普通
附件：如文

主旨：貴公司申請審核認證「ETABS V19.**」結構分析程式，本會電子計算機程式認證小組於民國 110 年 4 月 26 日通過認證，檢送土全結軟登字第 026 號登記證書乙份，請　查照。

說明：一、依據內政部營建署 88 年 11 月 15 日(88)營署建字第 60066 號函、內政部 90 年 1 月 15 日台(90)內營字第 9082175 號函與貴公司申請函辦理。

二、檢附本會 110 年 4 月 26 日程式認證小組審查會議紀錄乙份。

正本：眾元電腦有限公司、內政部營建署、內政部建築研究所、各縣市政府
副本：社團法人臺灣省土木技師公會、台北市土木技師公會、高雄市土木技師公會、社團法人新北市土木技師公會、台南市土木技師公會、社團法人桃園市土木技師公會、社團法人臺中市土木技師公會

理事長 洪啓德

# 中華民國土木技師公會全國聯合會

## 結構應用電子計算機程式認證證書

證書字號：土全結軟登字第 026 號

程式名稱：ETABS 程式

版本編號：V19.**

程式所有人：Computers and Structures, Inc.

申 請 人：眾元電腦有限公司

| 經確認下列使用者為本證書所載程式之合法使用者，<br>使用者名稱：<br>鼎匠工程顧問有限公司<br>公司統編/身分證字號：<br>25155584 | 證明人：<br>眾元電腦有限公司 |
|---|---|

ETABS V19.**結構分析程式業經本公會「電子計算機程式認證小組」依據本公會程式認證審核程序之規定審查通過，惟電腦程式所引用學理係為目前所認可理論，使用者據以完成之分析及設計結果仍應自行研判其正確性並負設計責任。

本公會認可該程式自中華民國 110 年 5 月 5 日起至中華民國 114 年 5 月 4 日止，適用中華民國境內使用。

中華民國土木技師公會全國聯合會

理事長　洪啓德

中 華 民 國 110 年 5 月 5 日

一、樓層使用概述：

本工程位於臺中市豐原區，擬興建一棟地上一層之鋼骨鋼筋結構物。樓層活載重及用途為：

| 樓層 | 樓高(m) | 活載重(kgf/cm²) | 用途 |
|---|---|---|---|
| PF | - | 60 | 斜屋頂 |
| 1MF | 4.20~5.80 | 100 | 夾層(斜屋頂) |
| 1F | 4.00 | 500/1000 | 公共空間、機房 |

二、結構系統：

本工程結構系統為特殊抗彎矩構架系統，基礎採用獨立基礎及筏式基礎。

三、設計依據：

1. 內政部「中華民國建築技術規則」(112 年 5 月)
2. 內政部「建築物耐震設計規範及解說」(111 年 10 月)
3. 內政部「建築物耐風設計規範及解說」(103 年 12 月)
4. 內政部「建築物基礎構造設計規範」(112 年 6 月)
5. 內政部「混凝土結構設計規範」(112 年 8 月)
6. 鋼構造建築物鋼結構設計技術規範（99 年 9 月）

四、設計載重：

樓版設計荷重

| | | | |
|---|---|---|---|
| 屋頂層： | ROOFING | | 0.010 |
| | PURLIN + STRUT + BTACE | | 0.030 |
| | TILES | | 0.020 |
| | | DEAD LOAD= | 0.060 t/m² |
| | (斜屋頂) | LIVE LOAD= | 0.060 t/m² |
| 一般層： | 鋼筋混凝土樓版(AVG.T= | 15.0 cm) | 0.360 |
| | 粉刷及裝修材 | | 0.100 |
| | 各種管線及其他 | | 0.100 |
| | | DEAD LOAD= | 0.560 t/m² |
| | | LIVE LOAD= | 0.500 t/m² |
| 一般層： | 鋼筋混凝土樓版(AVG.T= | 20.0 cm) | 0.480 |
| | 粉刷及裝修材 | | 0.100 |
| | 各種管線及其他 | | 0.100 |
| | | DEAD LOAD= | 0.680 t/m² |
| | | LIVE LOAD= | 0.500 t/m² |

註：有特殊載重處(水箱、覆土)依實際載重計算

## 五、地震重量計算：

```
NO:12188                          建築物重量計算 (地震力用)
-----------------------------------------------------------------------
PF            樓地版面積      =   929.30 m²          樓高 =    ---    M ;ΣW=     185.86
                       ITEM :     W   *    A & L *   H    =      SUM :ΣW/A=      0.20
                    ROOFING :     0.01    929.30         =     9.29 :
    PURLIN + STRUT + BTACE :     0.03    929.30         =    27.88
                     TILES :     0.02    929.30         =    18.59 :
                        柱 :    30.00      1.00         =    30.00 :
                      WALL :     0.39     96.86    2.65 =   100.10 :
-----------------------------------------------------------------------
1MF           樓地版面積      =   463.90 m²          樓高 =     5.80 M ;ΣW=     695.85
                       ITEM :     W   *    A & L *   H    =      SUM :ΣW/A=      1.50
                       SLAB :     0.46    463.90         =   213.39 :
                        柱 :   113.48      1.00         =   113.48 :
                        梁 :   132.68      1.00         =   132.68 :
                      WALL :     0.39    151.47    4.00 =   236.30
-----------------------------------------------------------------------
1F                                                      樓高 =     4.00 M
```

## 六、水平橫力：

(1)設計地震力

X 向 Ve = max(0.3887, 0.2678, 0.4093)*W=0.4093*881.7=360.85 t

Y 向 Ve = max(0.3887, 0.2706, 0.4093)*W=0.4093*881.7=360.85 t

另詳附件一。

## 七、風力：另詳附件二。

## 八、材料規格：

(1) 鋼筋

#4(含)以上 fy= 4200 kgf/cm$^2$ 需符合 CNS 560-A2006 SD420 之規定

#3(含)以下 fy= 2800 kgf/cm$^2$ 需符合 CNS 560-A2006 SD280 之規定

Young's modulus = 2,040,000 kgf/cm$^2$

(2) 混凝土

混凝土第 28 天齡期之最小抗壓強度 fc' = 280 kgf/cm$^2$

Young's modulus = 200,798 kgf/cm$^2$

打底用混凝土 fc' = 140 kgf/cm$^2$

(3).結構鋼料

Young's modulus = 2,040,000 kgf/cm$^2$

1 熱軋型鋼柱,大梁,斜撐,接合鋼板,加勁版等

使用符合 STKR400/STK490 系列之材質。

2 熱軋型鋼小梁等

使用符合 STKR400 系列之材質。

3.高強度螺栓　JIS-F10T、S10T　Fu = 10.00 tf/cm$^2$

4.基礎螺栓　ASTM-A307

5.銲材　E70XX　Fu = 4.90 tf/cm$^2$

九、平面結構配置：另詳附件三。

一〇、基礎結構配置：另詳附件三。

一一、分析及設計法：

以 CSI-ETABS（VERSION 19）電腦程式分析設計，柱、梁、樓版、 基礎採 USD 及 LRFD 法設計。

模型建立之方式為依照結構柱、梁尺寸與位置建立於 ETABS 模型中，樓版以柔性樓版設定。

一二、電腦分析資料：另詳附件四。

一三、百分之五額外扭矩之分析：另詳附件五。

一四、載重組合：

（一）鋼筋混凝土部分（USD）

(1) 1.4DL+1.7LL

(2) 0.75(1.4DL+1.7LL) ±1.0EQx ±0.3×1.0EQv

(3) 0.75(1.4DL+1.7LL) ±1.0EQy ±0.3×1.0EQv

(4) 0.75(1.4DL+1.7LL) ±0.3×1.0EQx ±1.0EQv

(5) 0.75(1.4DL+1.7LL) ±0.3×1.0EQy ±1.0EQv

(6) 0.9DL ±1.0EQx ±0.3×1.0EQv

(7) 0.9DL ±1.0EQy ±0.3×1.0EQv

(8) 0.9DL ±0.3×1.0EQx ±1.0EQv

(9) 0.9DL ±0.3× 1.0EQy ±1.0EQv

(10) 0.75(1.4DL+1.7LL ±1.7Wwx)

(11) 0.75(1.4DL+1.7LL ±1.7Wwy)

(12) 0.9DL ±1.3Wwx

(13) 0.9DL ±1.3Wwy

（二）鋼骨部分（LRFD）

(1) 1.4DL

(2) 1.2DL+1.6LL

(3) 1.2DL+0.5LL ±1.0EQx ±0.3EQv

(4) 1.2DL+0.5LL ±1.0EQy ±0.3EQv

(5) 1.2DL+0.5LL ±0.3EQx ±1.0EQv

(6) 1.2DL+0.5LL ±0.3EQy ±1.0EQv

(7) 0.9DL ±1.0EQx ±0.3EQv

(8) 0.9DL ±1.0EQy ±0.3EQv

(9) 0.9DL ±0.3EQx ±1.0EQv

(10) 0.9DL ±0.3EQy ±1.0EQv

一五、層間位移及碰撞距離：另詳附件五。

一六、軟弱層檢討：為第 I 類建築。

一七、結構設計：.

(1)梁設計：另詳附件六

(2)柱設計：另詳附件七

(3)版、牆設計：另詳附件八

(4)基礎設計：另詳附件九

一八、附件

一、地震力計算

二、風力計算

三、平面結構配置、基礎結構配置

四、電腦分析資料

五、層間變位及意外扭矩

六、梁設計

七、柱設計

八、版設計

九、基礎設計

十、基礎螺栓設計

# 附件一

```
地震分區 = 臺中市 豐原區       地盤類別 = 第一類地盤
震區短周期與一秒週期之設計水平譜加速度係數 SSD 與 S1D
震區短周期與一秒週期之最大考量水平譜加速度係數 SSM 與 S1M
由表2-1得       SSD = 0.80        SSM = 1.00
                S1D = 0.45        S1M = 0.55

近車籠埔斷層       距離約   2.960 Km
近斷層震區短週期與一秒週期之設計水平譜加速度係數 SSD 與 S1D
近斷層震區短週期與一秒週期之最大考量水平譜加速度係數 SSM 與 S1M
由表2-3-1~表2-3-4 依近斷層距離內插計算得
                SSD = 0.94        SSM = 1.21
                S1D = 0.60        S1M = 0.80

工址短週期與一秒週期之設計水平譜加速度係數 SDS 與 SD1
工址短週期與一秒週期之最大考量水平譜加速度係數 SMS 與 SM1
由表2-4(a)得 短週期結構之工址放大係數 Fa
由表2-4(b)得 長週期結構之工址放大係數 Fv
SDS = SSD *Fa = 0.94* 1.00 = 0.941
SD1 = S1D *Fv = 0.60* 1.00 = 0.600
SMS = SSM *Fam= 1.21* 1.00 = 1.211
SM1 = S1M *Fvm= 0.80* 1.00 = 0.801

近斷層區域計算中小度地震之地震力時不須考慮近斷層效應
SDS = SSD *Fa = 0.80* 1.00 = 0.800
SD1 = S1D *Fv = 0.45* 1.00 = 0.450

短週期與中、長週期的分界 T0D 與 T0M
T0D = SD1/SDS = 0.600/0.941 = 0.638
T0M = SM1/SMS = 0.801/1.211 = 0.661

近斷層區域計算中小度地震之地震力時 T0D
T0D = SD1/SDS = 0.450/0.800 = 0.563
-------------------------------------------------------------------------------
用途係數   I  = 1.50
建築物總重 W  =   881.71 Tf
基面至屋頂面高度 H = 9.80 m
法規週期  Tcx = 0.070*(H^0.75) = 0.388 sec    Tcy = 0.070*(H^0.75) = 0.388 sec
動力週期  Tdx = 0.362 sec                     Tdy = 0.378 sec
週期上限係數 Cu = 1.40
基本振動週期採用 Tx = Min( Cu*Tcx ,Tdx) = 0.362 sec
                 Ty = Min( Cu*Tcy ,Tdy) = 0.378 sec
-------------------------------------------------------------------------------
工址設計水平譜加速度係數SaD
工址最大水平譜加速度係數SaM
表2-5(a)
    SaD = SDS(0.4+3*T/T0D) ;           T <= 0.2*T0D (較短週期)
    SaD = SDS              ; 0.2*T0D < T <= T0D     (短週期)
    SaD = SD1/T            ;     T0D < T <= 2.5*T0D (中週期)
    SaD = 0.4*SDS          ; 2.5*T0D < T            (長週期)
表2-5(b)
    SaM = SMS(0.4+3*T/T0M) ;           T <= 0.2*T0M (較短週期)
    SaM = SMS              ; 0.2*T0M < T <= T0M     (短週期)
    SaM = SM1/T            ;     T0M < T <= 2.5*T0M (中週期)
    SaM = 0.4*SMS          ; 2.5*T0M < T            (長週期)

本工程  T0D = 0.638      SDS = 0.941    SD1 = 0.600
        T0M = 0.661      SMS = 1.211    SM1 = 0.801
X 向    Tx  = 0.362  得  SaD = 0.941    SaM = 1.211
Y 向    Ty  = 0.378  得  SaD = 0.941    SaM = 1.211

近斷層區域計算中小度地震之地震力時 SaD
X 向    Tx  = 0.362  T0D = 0.563  SDS = 0.800  SD1 = 0.450  得 SaD = 0.800
Y 向    Ty  = 0.378  T0D = 0.563  SDS = 0.800  SD1 = 0.450  得 SaD = 0.800
-------------------------------------------------------------------------------
起始降伏地震力放大係數    αy= 1.0 (RC ,USD METHOD)
X 向  韌性容量 Rx= 4.0    容許韌性容量 Rax= 1+(R-1)/1.5 = 3.00
Y 向           Ry= 4.0                 Ray= 1+(R-1)/1.5 = 3.00

結構系統地震力折減係數 Fu
式(2-12)
 Fu = Ra                                                ;     T0D<= T
 Fu = SQR(2Ra-1)+(Ra-SQR(2Ra-1)*(T-0.6*T0D)/(0.4*T0D) ; 0.6*T0D<= T <=T0D
 Fu = SQR(2Ra-1)                                        ; 0.2*T0D<= T <=0.6*T0D
 Fu = SQR(2Ra-1)+(SQR(2Ra-1)-1)*(T-0.2*T0D)/(0.2*T0D) ;           T <=0.2*T0D

X 向  Tx = 0.362  T0D = 0.638  Ra= 3.00  得  Fu = 2.236
                  T0M = 0.661  R = 4.00  得  Fum= 2.646
Y 向  Ty = 0.378  T0D = 0.638  Ra= 3.00  得  Fu = 2.236
                  T0M = 0.661  R = 4.00  得  Fum= 2.646

近斷層區域計算中小度地震之地震力時 Fux 與 Fuy
X 向  Tx = 0.362  T0D = 0.563  Ra = 3.00  得  Fux= 2.319
Y 向  Ty = 0.378  T0D = 0.563  Ra = 3.00  得  Fuy= 2.374
-------------------------------------------------------------------------------
SaD/Fu依(2-2)式修正為[SaD/Fu]m
式(2-2)
```

```
  [SaD/Fu]m = SaD/Fu                                  ;         SaD/Fu <= 0.3
  [SaD/Fu]m = 0.52(SaD/Fu)+0.144                      ;  0.3 <  SaD/Fu <  0.8
  [SaD/Fu]m = 0.70(SaD/Fu)                            ;  0.8 <= SaD/Fu
X 向   SaD/Fu = 0.421   得  [SaD/Fu]m = 0.363
Y 向   SaD/Fu = 0.421   得  [SaD/Fu]m = 0.363

SaM/FuM依(2-13d)式修正為[SaM/FuM]m
式(2-13d)
  [SaM/FuM]m = SaM/FuM                                ;         SaM/FuM <= 0.3
  [SaM/FuM]m = 0.52(SaM/FuM)+0.144                    ;  0.3 <  SaM/FuM <  0.8
  [SaM/FuM]m = 0.70(SaM/FuM)                          ;  0.8 <= SaM/FuM
X 向   SaM/FuM = 0.458   得  [SaM/FuM]m = 0.382
Y 向   SaM/FuM = 0.458   得  [SaM/FuM]m = 0.382

近斷層區域計算中小度地震之地震力時 [SaD/Fu]m
X 向   SaD/Fu = 0.345   得  [SaD/Fu]m = 0.323
Y 向   SaD/Fu = 0.337   得  [SaD/Fu]m = 0.319
-------------------------------------------------------------------------------
X方向地震力
最小設計水平總橫力 V                                          ;式(2-3)
V  = I/(1.4*αy)*(SaD/Fu)m * W
   = 1.50 /(1.4* 1.0) * 0.363 * W = 0.3887 * W
避免中小度地震降伏之設計地震力 V*                             ;式(2-13a)
V* = IFu/(4.2αy)*(SaD/Fu)m * W
   = 1.50 * 2.319 /(4.2* 1.0) * 0.323 * W = 0.2678 * W
避免最大考量地震崩塌之設計地震 VM                             ;式(2-13c)
VM = I/(1.4αy)*(SaM/FuM)m * W
   = 1.50 /(1.4* 1.0) * 0.382 * W  = 0.4093 * W

X方向最小設計水平總橫力取 (2-3),(2-16a),(2-16c) 之大者
Ve = max(0.3887, 0.2678, 0.4093) * W = 0.4093 *     881.7  =   360.85 t


Y方向地震力
最小設計水平總橫力 V                                          ;式(2-3)
V  = I/(1.4*αy)*(SaD/Fu)m * W
   = 1.50 /(1.4* 1.0) * 0.363 * W = 0.3887 * W
避免中小度地震降伏之設計地震力 V*                             ;式(2-13a)
V* = IFu/(4.2αy)*(SaD/Fu)m * W
   = 1.50 * 2.374 /(4.2* 1.0) * 0.319 * W = 0.2706 * W
避免最大考量地震崩塌之設計地震 VM                             ;式(2-13c)
VM = I/(1.4αy)*(SaM/FuM)m * W
   = 1.50 /(1.4* 1.0) * 0.382 * W = 0.4093 * W

Y方向最小設計水平總橫力取 (2-3),(2-16a),(2-16c) 之大者
Ve = max(0.3887, 0.2706, 0.4093) * W = 0.4093 *     881.7  =   360.85 t
-------------------------------------------------------------------------------

X向地震力之豎向分配

基本振動週期  Tx =  0.362  < 0.7 sec
構造物頂層外加之集中橫力  Ftx = 0

    STORY   STORY    BASE   WEIGHT     Ft         Fi         V  OVERTURNING
           HEIGHT   HEIGHT                                          MOMENT
   PF       5.80    9.80    185.9    0.00   142.73    142.73        827.8
    1MF      4.00    4.00    695.9           218.11    360.85       2271.2
    ---------------------------------------------------------------------
    1F               0.00      0.0             0.00    360.85


Y向地震力之豎向分配

基本振動週期  Ty =  0.378  < 0.7 sec
構造物頂層外加之集中橫力  Fty = 0

    STORY   STORY    BASE   WEIGHT     Ft         Fi         V  OVERTURNING
           HEIGHT   HEIGHT                                          MOMENT
   PF       5.80    9.80    185.9    0.00   142.73    142.73        827.8
    1MF      4.00    4.00    695.9           218.11    360.85       2271.2
    ---------------------------------------------------------------------
    1F               0.00      0.0             0.00    360.85


-------------------------------------------------------------------------------
Z 向 垂直地震力

梁版系統振動週期
假設  0.2xT0D ≦ Tv ≦ 0.6xT0D
假設  0.2xT0M ≦ Tv ≦ 0.6xT0M

工址設計水平譜加速度係數SaD 由表表2-7(a)
工址最大水平譜加速度係數SaM 由表表2-7(b)
近斷層工址
          SaD,V = 2/3 * SaD = 2/3 * SDS  = 0.627
          SaM,V = 2/3 * SaM = 2/3 * SMS  = 0.807
近斷層區域計算中小度地震力時 SaD
          SaD,V = 2/3 * SaD = 2/3 * SDS  = 0.533

結構系統地震力折減係數 Fu 由式(2-12)
```

```
          Fuv  = √(2Ra-1) = 1.915
          Fumv = √(2R-1)  = 2.236

SaD,v/Fuv 依(C2-11b)式修正為[SaD,v/Fuv]m
  [SaD,v/Fuv]m = SaD,v/Fuv                        ;         SaD,v/Fuv <= 0.2
  [SaD,v/Fuv]m = 0.52(SaD,v/Fuv)+0.096            ;  0.2 <  SaD,v/Fuv <  0.53
  [SaD,v/Fuv]m = 0.70(SaD,v/Fuv)                  ;  0.53<= SaD,v/Fuv
SaD,v/Fuv  = 0.328  得  [SaD,v/Fuv]m  = 0.266
SaM,v/Fumv = 0.361  得  [SaM,v/Fumv]m = 0.284
近斷層區域計算中小度地震之地震力時 [SaD/Fu]m
SaD,v/Fuv  = 0.279  得  [SaD,v/Fuv]m  = 0.241

最小設計水平總橫力
Kzs = I/(1.4*αy)*(SaD,v/Fuv)m = 1.50 /(1.4* 1.0) * 0.266 = 0.285
避免中小度地震降伏之設計地震力
Kzs = IFuv/(4.2*αy)*(SaD,v/Fuv)m = 1.50 * 1.915 /(4.2* 1.0) * 0.241 = 0.165
避免最大考量地震崩塌之設計地震
Kzs = I/(1.4*αy)*(SaM,v/Fumv)m = 1.50 /(1.4* 1.0) * 0.284 = 0.304
梁版系統之垂直地震力係數取大者
Kzs = max(0.285, 0.165, 0.304) = 0.304

柱之垂直地震力係數
Kzc = (0.8 * SDS * I / 3αy) = (0.8 * 0.941 * 1.50/ 3* 1.0) = 0.376

假設  柱與梁版系統之重量比  Wc : Ws = 1 : 3
整體垂直地震力 Vz = (3 * Kzs + 1 * Kzc) / 4 * WT = Kz * WT
                  = 0.3221 *     881.7 =    284.0 T
```

| STORY | STORY HEIGHT | BASE HEIGHT | WEIGHT | (Fz)i | Fz |
|---|---|---|---|---|---|
| PF | 5.80 | 9.80 | 185.9 | 59.9 | 59.9 |
| 1MF | 4.00 | 4.00 | 695.9 | 224.1 | 284.0 |
| 1F | | 0.00 | 0.0 | 0.0 | 284.0 |

# 附

# 件

# 二

## 封閉式或部份封閉式或開放式建築物 之風力計算-甲棟

1.基地位置： 台中市 豐原區

基本設計風速 ： V10(C) = 32.5 m/sec

2.使用係數： I = 1.1

3.地況種類： 地況 B

$\alpha$ = 0.25 ( 查表 2.2 )

Zg = 400 m

4.平均屋頂高度： h = 10.55 m

NOTE： 當屋頂之斜角小於10度時, h = 屋簷高 10.55 m

5.風速壓地況係數： K(z) = 2.774( z / Zg )^2$\alpha$ ; z > 5m

= 2.774( 5 / Zg )^2$\alpha$ ; z ≦ 5m

z = h 時 K(z) = 0.4505

z ≦ 5 時 K(z) = 0.3101

6.地形係數： Kzt = 1.00

7.風速壓： q(z) = 0.06 * K(z) * Kzt *[I * V10(C)] ²

z = h 時 q(z) = 34.55 kg/m²

z ≦ 5 時 q(z) = 23.78 kg/m²

8.陣風反應因子： G = 1.88 ( 普通建築物) 規範

9.內風壓係數(Gcpi)：

部分封閉式建築 GCpi = 1.146 -1.146 (查表2.17)

10.牆之外風壓係數(Cp)及設計風壓(p)：

主要風力抵抗系統 p 正號(+): 正風壓

設計風壓 p = q G Cp - qi (GCpi) p 負號(-): 負風壓

垂直屋脊長度 Lx = 24.20 m

平行屋脊長度 Ly = 41.20 m

平均高度 h = 10.55 m

10.1風向垂直屋脊時：

B = Ly = 41.20 m

L = Lx = 24.20 m

L / B = 0.59

迎風面 Cp = 0.80 q = q(z) (查表2.4)

背風面 Cp = -0.50 q = q(h)

側風面 Cp = -0.70 q = q(h)

Case 1 G'Cpi= -1.146 內部風壓向內

迎風面

z = h 時 p = 91.55 kg/m² **正風壓**

z ≦ 5 時 p = 75.36 kg/m² **正風壓**

背風面 p = 7.12 kg/m² **正風壓**

側風面 p = -5.87 kg/m² **負風壓**

Case 2 G'Cpi= 1.146 內部風壓向外

迎風面

z = h 時 p = 12.37 kg/m² **正風壓**

z ≦ 5 時 p = -3.82 kg/m² **負風壓**

背風面 p = -72.06 kg/m² **負風壓**

側風面 p = -85.05 kg/m² **負風壓**

10.2風向平行屋脊時：

B = Lx = 24.20 m

L = Ly = 41.20 m

L / B = 1.70

迎風面 Cp = 0.80 q = q(z) (查表2.4)

背風面 Cp = -0.36 q = q(h)

側風面 Cp = -0.70 q = q(h)

Case 3 Cpi= -1.146 內部風壓向內

迎風面

z = h 時 p = 91.55 kg/m² **正風壓**

z ≦ 5 時 p = 75.36 kg/m² **正風壓**

背風面 p = 16.24 kg/m² **正風壓**

側風面 p = -5.87 kg/m² **負風壓**

Case 4 Cpi= 1.146 內部風壓向外

迎風面

z = h 時 p = 12.37 kg/m² **正風壓**

z ≦ 5 時 p = -3.82 kg/m² **負風壓**

背風面 p = -62.94 kg/m² **負風壓**

側風面 p = -85.05 kg/m² **負風壓**

11.屋頂之外風壓係數(Cp)及設計風壓(p)：

主要風力抵抗系統

設計風壓 p = q G Cp - qi (GCpi)

屋頂斜度 $\theta$ = 6.21 度

屋脊方向長度 B = 41.20 m

山牆方向長度 L = 24.20 m

h / B = 0.26

h / L = 0.44

取最大-KEY桁條設計風載重

11.1風力垂直於屋脊時：

| | | | | |
|---|---|---|---|---|
| 迎風面 | Cp1 = | -0.82 | q = q(h) | (查表2.5) |
| | Cp2 = | -0.82 | | only 10-15 才有cp1,cp2 |
| 背風面 | Cp = | **-0.70** | q = q(h) | |

| | | | | |
|---|---|---|---|---|
| Case 1 | Cpi= | **-1.146** | | 內部風壓向外 |
| 迎風面 | p = | -13.67 | kg/m² | **負風壓** |
| 背風面 | p = | -5.87 | kg/m² | **負風壓** |
| Case 2 | Cpi= | **1.146** | | 內部風壓向內 |
| 迎風面 | p = | -92.85 | kg/m² | **負風壓** |
| 背風面 | p = | -85.05 | kg/m² | **負風壓** |

11.2風力平行於屋脊時：

| | | | | |
|---|---|---|---|---|
| 迎風面 | Cp = | -0.70 | q = q(h) | (查表2.5) |
| 背風面 | Cp = | -0.70 | q = q(h) | |

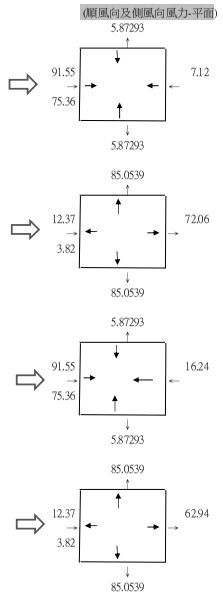
| | | | | |
|---|---|---|---|---|
| Case 1 | Cpi= | **-1.146** | | 內部風壓向外 |
| 迎風面 | p = | -5.87 | kg/m² | **負風壓** |
| 背風面 | p = | -5.87 | kg/m² | **負風壓** |
| Case 2 | Cpi= | **1.146** | | 內部風壓向內 |
| 迎風面 | p = | -85.05 | kg/m² | **負風壓** |
| 背風面 | p = | -85.05 | kg/m² | **負風壓** |

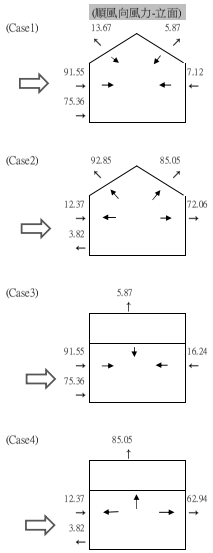
風向垂直屋脊 (Case1)

風向垂直屋脊 (Case2)

風向平行屋脊 (Case3)

(Case4)



# 附件三

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傳真:04-22373095

印鑑

工程名稱

臺中市合作國小
活動中心興建工程

圖名

一層結構平面圖

| 圖號 | S1-01 |
|---|---|
| 張號 | |

| | 簽章 | 日期 |
|---|---|---|
| 設計 | | |
| 繪圖 | | |
| 校對 | | |
| 審核 | | |
| 核准 | | |

| 比例 | A1:1/100 |
|---|---|
| | A3:1/200 |

補充說明

鋼柱尺寸表 單位:mm

| 編　號 | 鋼　骨　尺　寸 | RC尺寸 | 規　格 |
|---|---|---|---|
| SC1 | ø267.4x9.3t | 500x500 | STK490 |
| | | | |

RC柱尺寸表 單位:mm

| 編　號 | 尺　寸 |
|---|---|
| C0 | 500x500 |
| C1,C2 | 500x800 |
| C3 | 800x500 |
| C4 | 750x500 |
| C5 | 600x400 |
| C6 | 400x600 |
| C7 | ø550 |
| | |

基礎梁尺寸表 單位:mm

| 編　號 | 尺　寸 |
|---|---|
| FB*,FG* | 400X1500 |
| FB0,FG0 | 300X900 |
| FB26,FB27,FB29,<br>FG5,FG11 | 500X2500 |
| TB1,TG1,TG2 | 300X600 |
| | |

註: 未特別註明編號構件, 悉詳FB*,FG*.

樓版尺寸表 單位:mm

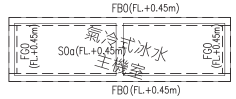
| 編　號 | 尺　寸 |
|---|---|
| FS1,FS2 | 400 |
| S0,S0a,S1,CS1 | 150 |
| S2,Sd | 200 |
| | |

基礎尺寸表 單位:mm

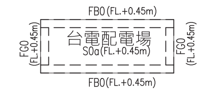
| 編　號 | 尺　寸 |
|---|---|
| F1,F2 | 1500x1500x300 |
| | |
| | |
| | |

結構體材料規格及強度說明:

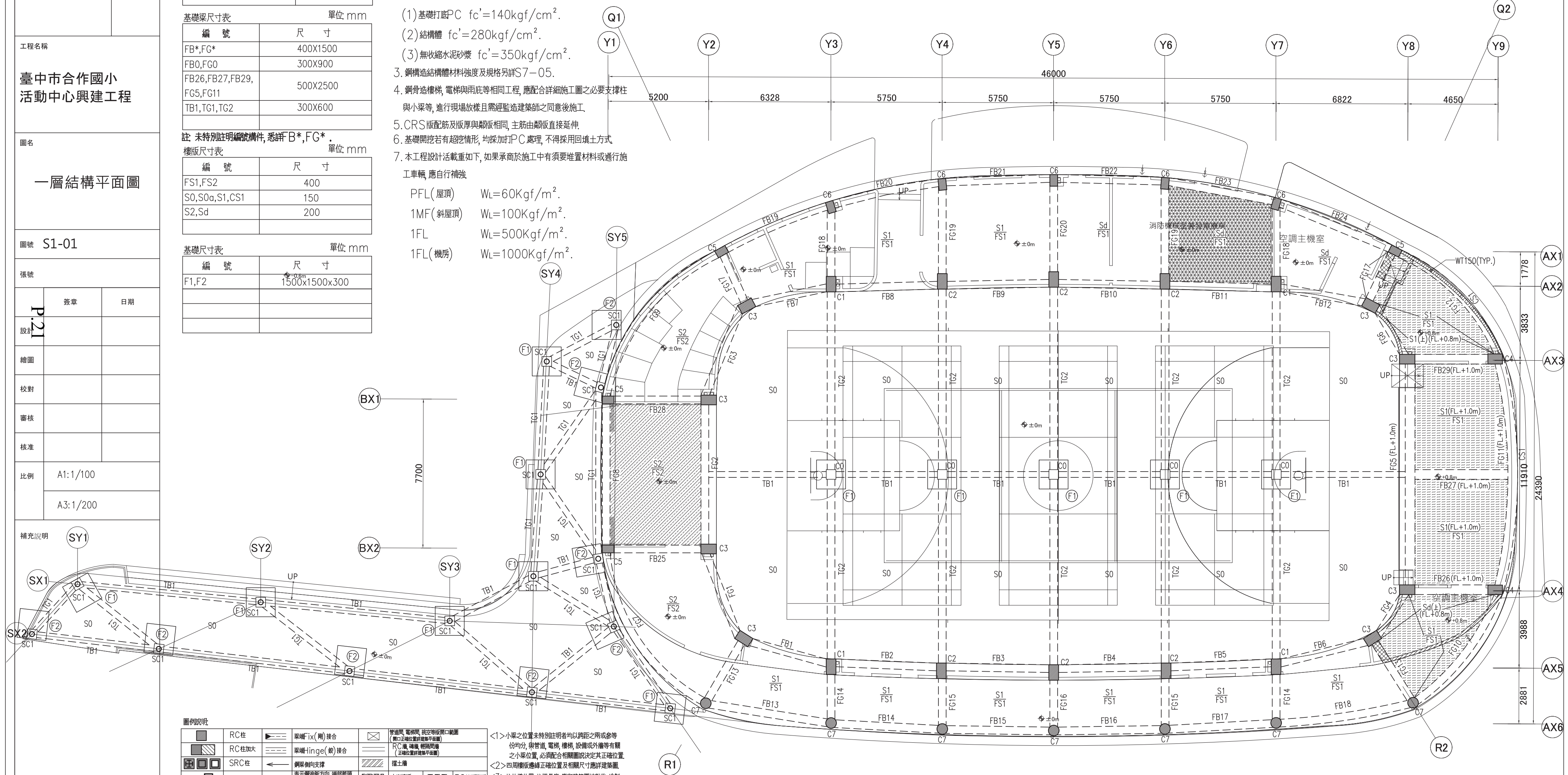
1. 鋼筋符合 CNS560 A2006
   SD280 fy=2800kgf/cm² #3竹節鋼筋
   SD420 fy=4200kgf/cm² #4~#5竹節鋼筋
   SD420W fy=4200kgf/cm² #6~#10竹節鋼筋
   (fy≤5400Kgf/cm²,fu≥1.25fy)
2. 混凝土28天抗壓強度fc'說明如下:
   (1)基礎打底PC fc'=140kgf/cm².
   (2)結構體 fc'=280kgf/cm².
   (3)無收縮水泥砂漿 fc'=350kgf/cm².
3. 鋼構造結構體材料強度及規格另詳S7-05.
4. 鋼骨造樓梯, 電梯與雨庇等相同工程, 應配合詳細施工圖之必要支撐柱與小梁等, 進行現場放樣且需經監造建築師之同意後施工.
5. CRS版配筋及版厚與鄰版相同, 主筋由鄰版直接延伸.
6. 基礎開挖若有超挖情形, 均採加打PC處理, 不得採用回填土方式.
7. 本工程設計活載重如下, 如果承商於施工中有須要堆置材料或通行施工車輛, 應自行補強.
   PFL(屋頂) $W_L$=60Kgf/m².
   1MF(斜屋頂) $W_L$=100Kgf/m².
   1FL $W_L$=500Kgf/m².
   1FL(機房) $W_L$=1000Kgf/m².




氣冷式冰水主機室平面圖 A3:1/200 A1:1/100




台電配電場平面圖 A3:1/200 A1:1/100




圖例說明

| | | | | | |
|---|---|---|---|---|---|
| RC柱 | 梁端Fix(剛)接合 | 管道間, 電梯間, 挑空等版開口範圍(開口正確位置詳建築平面圖) | | | |
| RC柱加大 | 梁端Hinge(鉸)接合 | RC牆, 磚牆, 輕隔間牆(正確位置詳建築平面圖) | | | |
| SRC柱 | 鋼梁側向支撐 | 擋土牆 | | | |
| 鋼柱 | 表示鋼浪板方向, 端部箭頭所指若為兩跨, 則表示兩跨連續, 箭頭所指若為參跨, 則表示參跨連續 | 中空樓版 | | RC樓版降版 | |
| RC梁 | | RC梁頂增築 | | RC梁底增築 | |
| SRC梁 | 剪力牆, 承重牆 (Wxxx表示厚度為xxxmm) | RC梁寬增築 | | RC增築 | |
| STEEL梁 | RC擋牆, 吊牆 (WTxxx表示厚度為xxxmm) | 角隅補強 | | 消防水池 | |
| 雨水回收池 | 污水處理槽 | 廢水池 | | 滯洪池 | |

<1>小梁之位置未特別註明者均以跨距之兩或參等份均分, 與管道, 電梯, 樓梯, 設備或外牆等有關之小梁位置, 必須配合相關圖說決定其正確位置.
<2>四周樓版邊緣正確位置及相關尺寸應詳建築圖.
<3>柱放樣位置, 柱梁長度, 應與建築圖核對後, 繪製施工圖, 經建築師確認後方可施工.

一層結構平面圖(1F) A3:1/200 A1:1/100

註: 結構平面圖梁柱位置僅供施工單位作放樣參考, 實際梁柱位置均需配合建築圖面檢討. 若結構與建築圖不一致, 需提出由設計單位確認.

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印鑑

工程名稱

臺中市合作國小
活動中心興建工程

圖名

夾層結構平面圖

圖號 S1-02

張號

| | 簽章 | 日期 |
|---|---|---|
| 設計 | | |
| 繪圖 | | |
| 校對 | | |
| 審核 | | |
| 核准 | | |
| 比例 | A1:1/100 | |
| | A3:1/200 | |

補充說明

RC柱尺寸表 單位:mm

| 編 號 | 尺 寸 |
|---|---|
| C1,C2 | 500x800 |
| C3 | 800x500 |
| | |

鋼骨大梁尺寸表

| 編 號 | 鋼 骨 尺 寸 | 規 格 |
|---|---|---|
| SB1,SG1 | □-200x150x4.5t | STKR400 |
| SB2,SG2 | □-200x150x6t | STKR400 |
| | | |

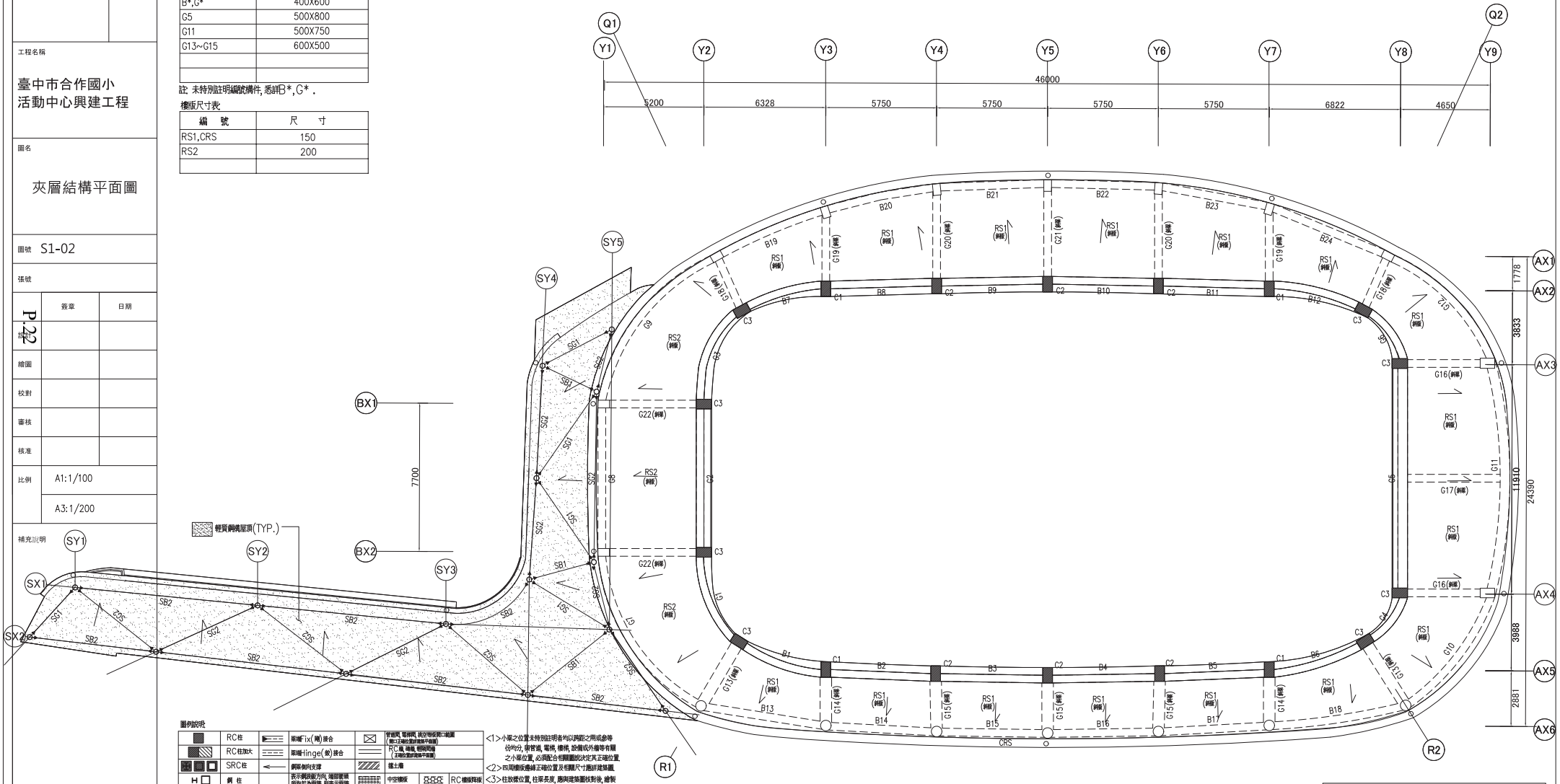
RC梁尺寸表

| 編 號 | 尺 寸 |
|---|---|
| B*,G* | 400X600 |
| G5 | 500X800 |
| G11 | 500X750 |
| G13~G15 | 600X500 |
| | |
| | |

註: 未特別註明編號構件, 悉詳B*,G*.

樓版尺寸表

| 編 號 | 尺 寸 |
|---|---|
| RS1,CRS | 150 |
| RS2 | 200 |
| | |




夾層結構平面圖(1MF) A3:1/200 A1:1/100

圖例說明

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | RC柱 | | 單端Fix(剛)接合 | | 管道間, 電梯間, 排水等版開口範圍(詳工程圖及建築平面圖) | | |
| | RC柱加大 | | 單端Hinge(鉸)接合 | | RC牆, 磚牆, 輕隔間牆(詳細位置請參閱平面圖) | | |
| | SRC柱 | | 鋼筋剪向支撐 | | 填土層 | | |
| | 鋼 柱 | | 表示鋼筋梁方向, 端部箭頭所指柱為剛接, 則表示剛接梁, 箭頭所指柱為鉸接, 則表示鉸接梁 | | 中空樓版 | | RC樓版開孔 |
| | RC梁 | | | | RC單邊增版 | | RC單底增版 |
| | SRC單 | Wxxx | 鋼骨梁, 支撐梁 (Wxxx表示鋼骨梁Wxxxmm) | | RC單寬增版 | | RC增版 |
| | STEEL單 | WTxxx | RC梁, 吊梁 (WTxxx表示吊梁Wxxxmm) | | 角鋼補強 | | 消防水池 |
| | 雨水回收池 | | 污水處理槽 | | 廢水池 | | 蓄洪池 |

<1>小梁之位置未特別註明者均以跨距之兩或參等份均分, 排管道, 電梯, 樓梯, 設備或外牆等有關之小梁位置, 必須配合相關圖紙決定其正確位置.
<2>四周樓版邊緣正確位置及相關尺寸應詳建築圖.
<3>柱放樓位置, 柱梁長度, 應與建築圖核對後, 繪製施工圖, 經建築師確認後方可施工.

註: 結構平面圖梁柱位置僅供施工單位作放樣參考, 實際梁柱位置均需配合建築圖面檢討, 若結構與建築圖不一致, 需提出由設計單位確認.

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印鑑

工程名稱

臺中市合作國小
活動中心興建工程

圖名

屋頂結構平面圖

圖號 S1-03

張號

| | 簽章 | 日期 |
|---|---|---|
| 設 | | |
| 繪圖 | | |
| 校對 | | |
| 審核 | | |
| 核准 | | |
| 比例 | A1:1/100 | |
| | A3:1/200 | |

補充說明

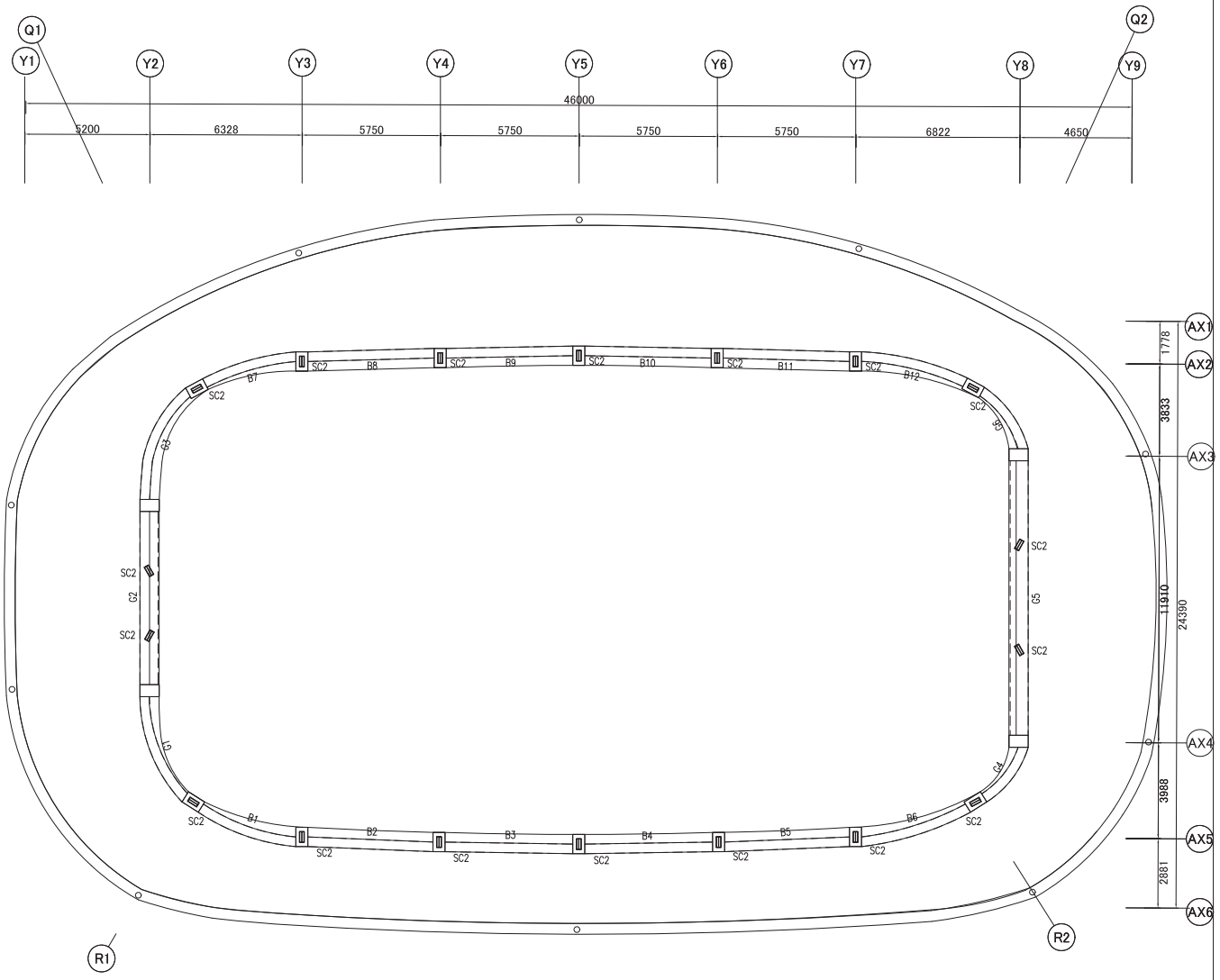
鋼柱尺寸表 單位:mm

| 編號 | 鋼骨尺寸 | 規格 |
|---|---|---|
| SC2 | H-450x200x9x14+2PL14 | SN490B |
| | | |
| | | |

RC梁尺寸表 單位:mm

| 編號 | 尺寸 |
|---|---|
| B*,G* | 400X600 |
| G2 | 750x750 |
| G5 | 750x800 |
| | |

註: 未特別註明編號構件,悉詳B*,G*.




屋頂結構平面圖(PF) A3:1/200 A1:1/100

圖例說明

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | RC柱 | | 梁端Fix(剛)接合 | | 管道間,電梯間,其它特殊開口範圍(開口之範圍位置詳結構平面圖) | | |
| | RC柱加大 | | 梁端Hinge(鉸)接合 | | RC牆,磚牆,輕隔間牆(正確位置詳建築平面圖) | | |
| | SRC柱 | | 鋼筆者向支撐 | | 擋土牆 | | |
| H | 鋼柱 | | 表示鋼筋配方向,補圖箭頭所指狂為兩跨,則表示兩跨連續,箭頭所指若為參跨,則表示參跨連續 | | 中空樓板 | | RC樓版開孔 |
| | RC梁 | | | | RC梁調增筋 | | RC梁底增筋 |
| | SRC梁 | Wxxx | 鋼力梁,梁編碼 (Wxxx表示梁寬為xxxmm) | | RC梁寬增筋 | | RC增筋 |
| | STEEL梁 | | RC接縫,馬蹄 (WTxxx表示梁寬為xxxmm) | | 角鋼補強 | | 消防水池 |
| | 雨水回收池 | | 污水處理槽 | | 廢水池 | | 冷卻塔 |

<1>小梁之位置未特別註明者均以跨距之兩或參等份均分,與管道,電梯,樓梯,設備或外牆等有關之小梁位置,必須配合相關圖紙決定其正確位置.
<2>四周樓版邊緣正確位置及相關尺寸應詳建築圖.
<3>柱放樓位置,柱梁長度,應與建築圖核對後,繪製施工圖,經建築師確認後方可施工.

註: 結構平面圖梁柱位置僅供施工單位作放樣參考,實際梁柱位置均需配合建築圖面檢討,若結構與建築圖不一致,需提出由設計單位確認.

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印鑑

工程名稱

臺中市合作國小
活動中心興建工程

圖名

斜屋頂結構平面圖

圖號 S1-04

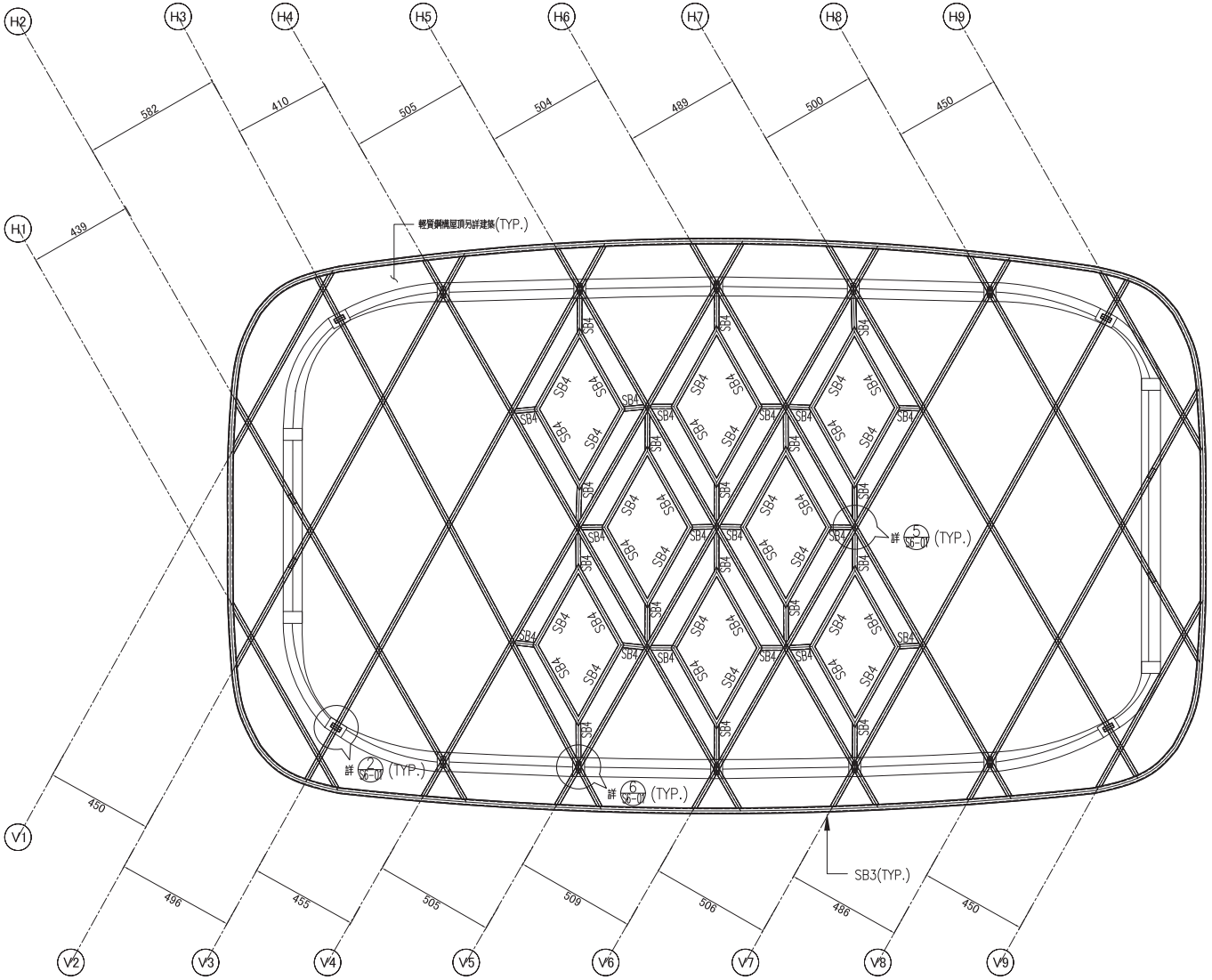
張號

| | 簽章 | 日期 |
|---|---|---|
| 設 | | |
| 繪圖 | | |
| 校對 | | |
| 審核 | | |
| 核准 | | |
| 比例 | A1:1/100 | |
| | A3:1/200 | |

補充說明

鋼骨大梁尺寸表 單位: mm

| 編號 | 鋼骨尺寸 | 規格 |
|---|---|---|
| SB3 | □-400x200x12t | STKR490 |
| SB4 | □-300x200x12t | STKR490 |
| | | |




## 斜屋頂結構平面圖(高度+8.2~+9.8) A3:1/200 A1:1/100

註 1. 鋼構銲接接合皆採全滲透銲剛性接合
註 2. 本層未特別標註之鋼梁，編號為"SB3"

圖例說明

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | RC柱 | | 梁端fix(剛)接合 | | 管道間、電纜間、消防等板面口地圍(無正確位置詳建築平面圖) | | |
| | RC柱加大 | | 梁端Hinge(鉸)接合 | | RC牆、樓梯、電梯間等(正確位置詳建築平面圖) | | |
| | SRC柱 | | 鋼筋剪力支撐 | | 覆土層 | | |
| H | 鋼 柱 | | 表示鋼筋版方向，補強筋請所指若為剛筋，則表示剛筋線圍，若剛所指若為參筋，則表示參筋線圍 | | 中空樓版 | | RC樓版開孔 |
| | RC梁 | | | | RC梁斜增筋 | | RC梁底增筋 |
| | SRC梁 | Wxxx | 剪力牆，承重牆 (Wxxx表示牆厚為xxxmm) | | RC梁寬增筋 | | RC增筋 |
| | STEEL梁 | | RC挑簷，雨篷 (WTxxx表示厚度為xxxmm) | | 角鋼補強 | | 消防水池 |
| | 雨水回收池 | | 污水廚房槽 | | 廢水池 | | 儲洪池 |

<1>小梁之位置未特別註明者均以兩距之兩或參等份均分，與管道，電纜，樓梯，設備或外牆等有關之小梁位置，必須配合相關圖紙決定其正確位置
<2>四周樓版邊緣正確位置及相關尺寸應詳建築圖
<3>柱放樣位置，柱梁長度，應與建築圖核對後，繪製施工圖，經建築師確認後方可施工

註: 結構平面圖梁柱位置僅供施工單位作放樣參考，實際梁柱位置均需配合建築圖面檢討，若結構與建築圖不一致，需提出由設計單位確認

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印鑑

工程名稱

臺中市合作國小
活動中心興建工程

圖名

開挖擋土措施平面圖

圖號 S1-05

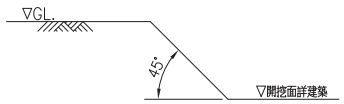
張號

| | 簽章 | 日期 |
|---|---|---|
| 設計 | | |
| 繪圖 | | |
| 校對 | | |
| 審核 | | |
| 核准 | | |
| 比例 | A1:1/100 | |
| | A3:1/200 | |

補充說明

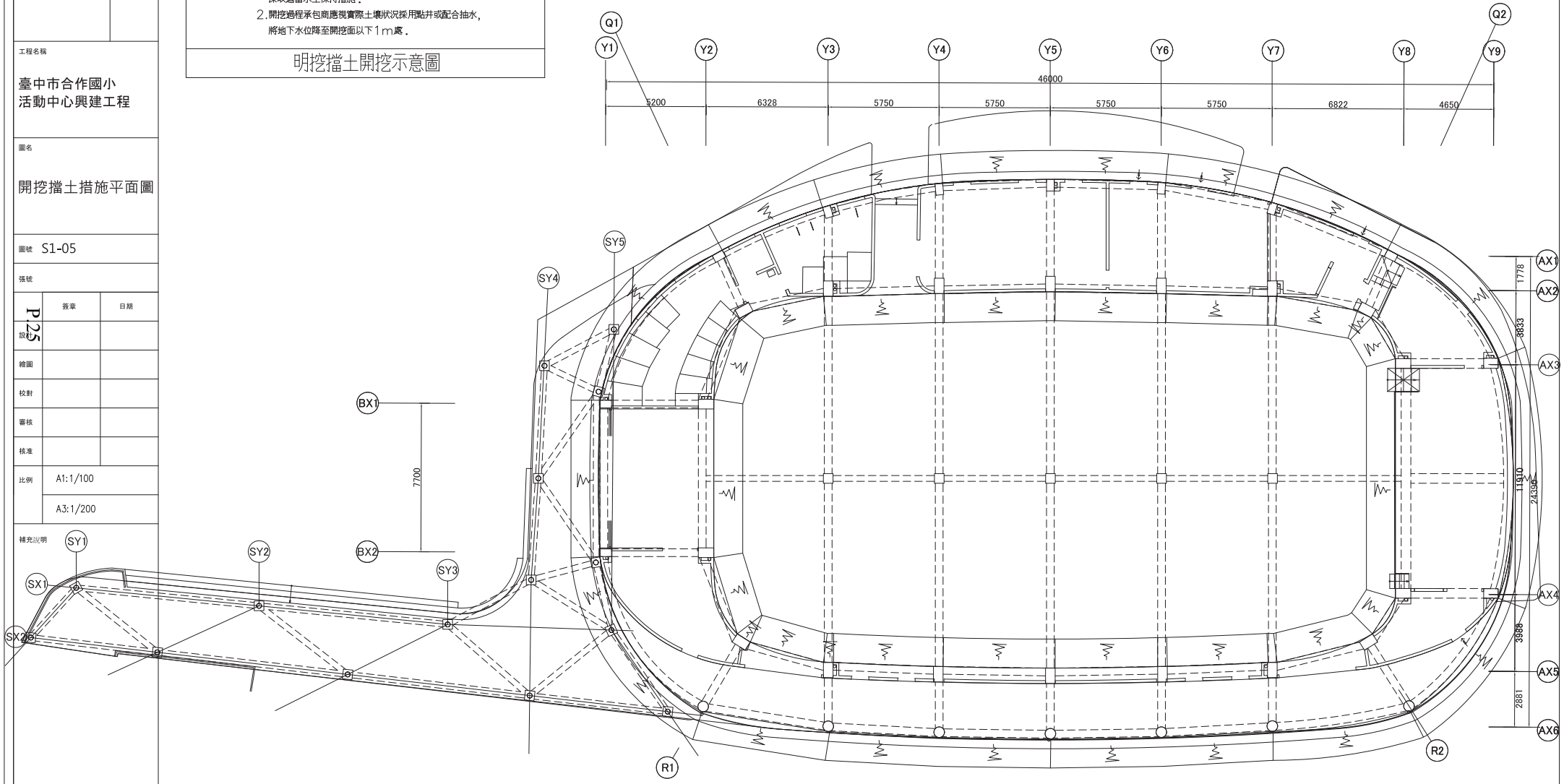
註:依技術規則第154條第四項規定:挖土深度在1.5公尺以上者,除地質良好,不致發生崩塌或其周圍狀況無安全之虞者外,應有適當之擋土設備.

本案 筏基 開挖深度 > 1.5公尺;採用明挖方式開挖.



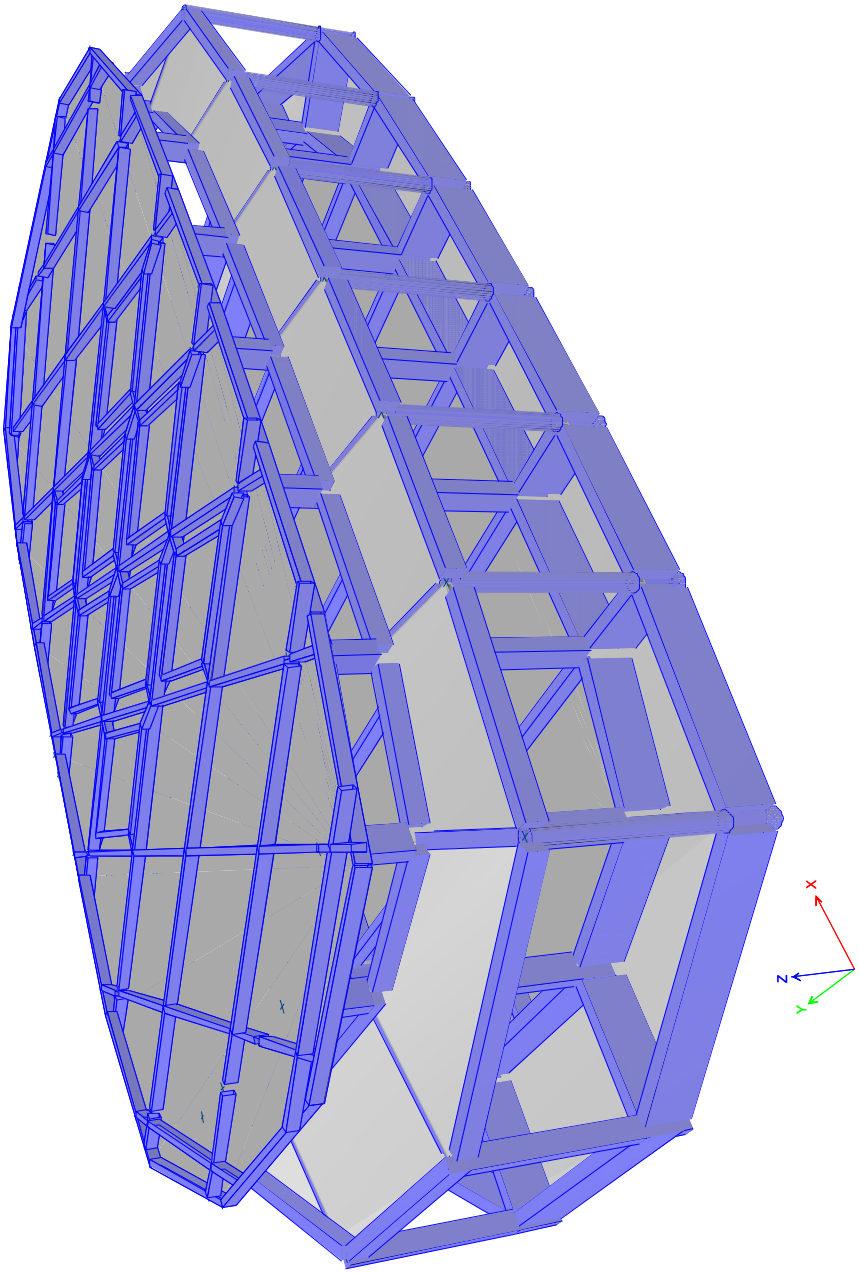

註:1.基礎開挖採用明挖方式,開挖邊坡坡度45°,開挖邊坡應採取適當水土保持措施.
2.開挖過程承包商應視實際土壤狀況採用點井或配合抽水,將地下水位降至開挖面以下1m處.

明挖擋土開挖示意圖

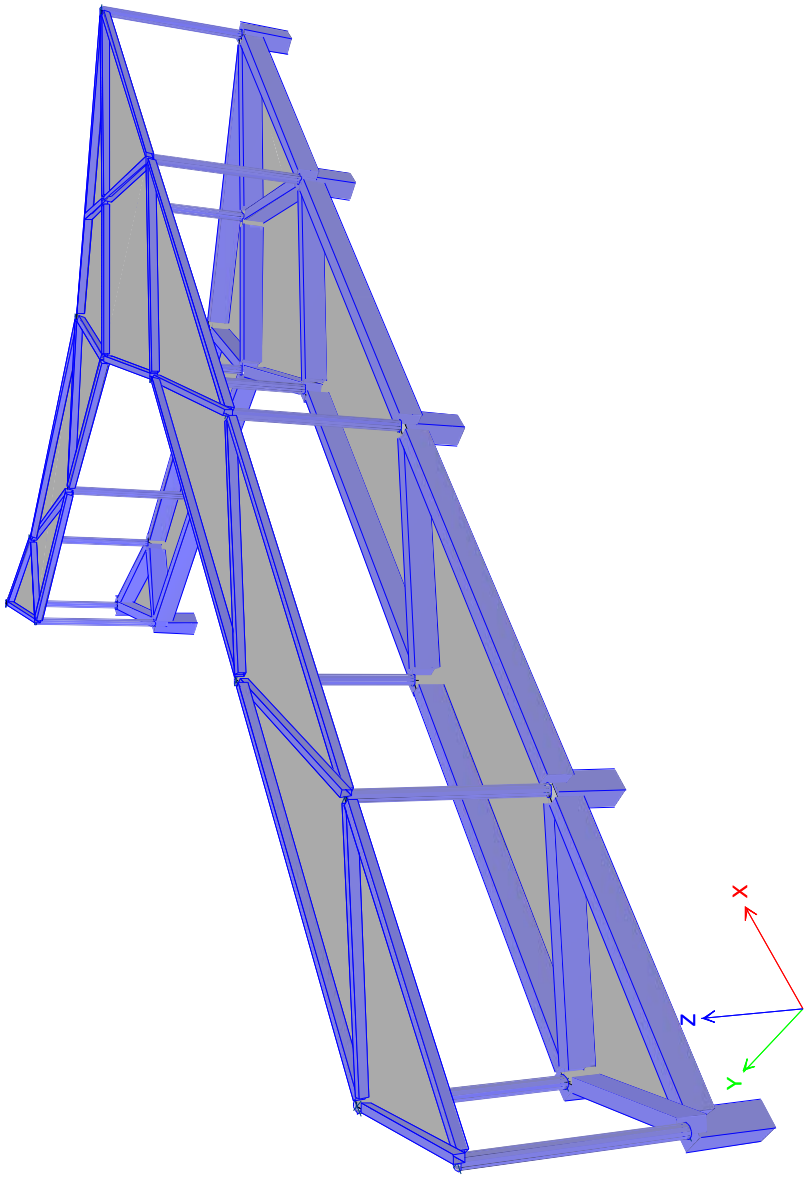



開挖擋土措施平面圖 A3:1/200 A1:1/100

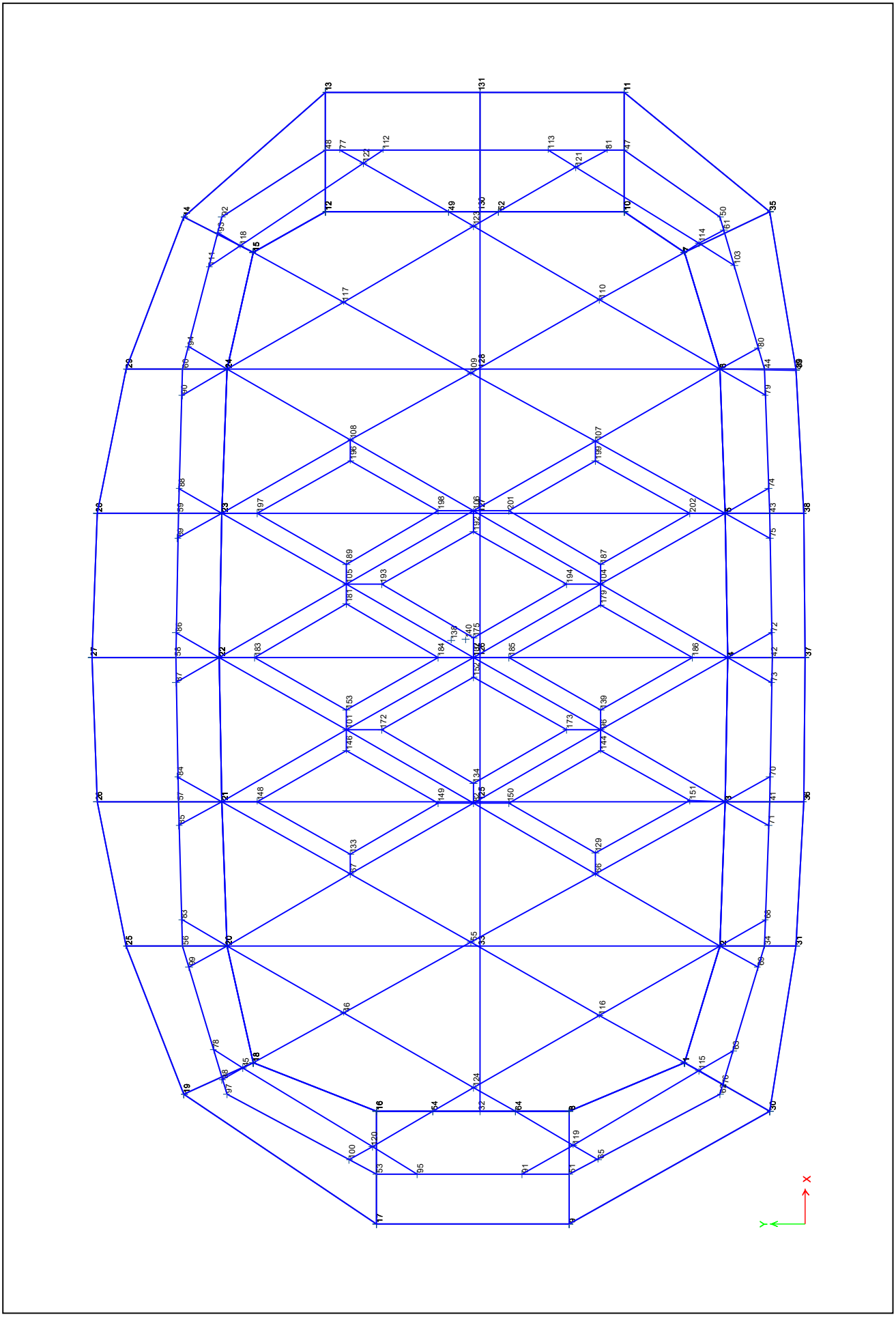
# 附件四



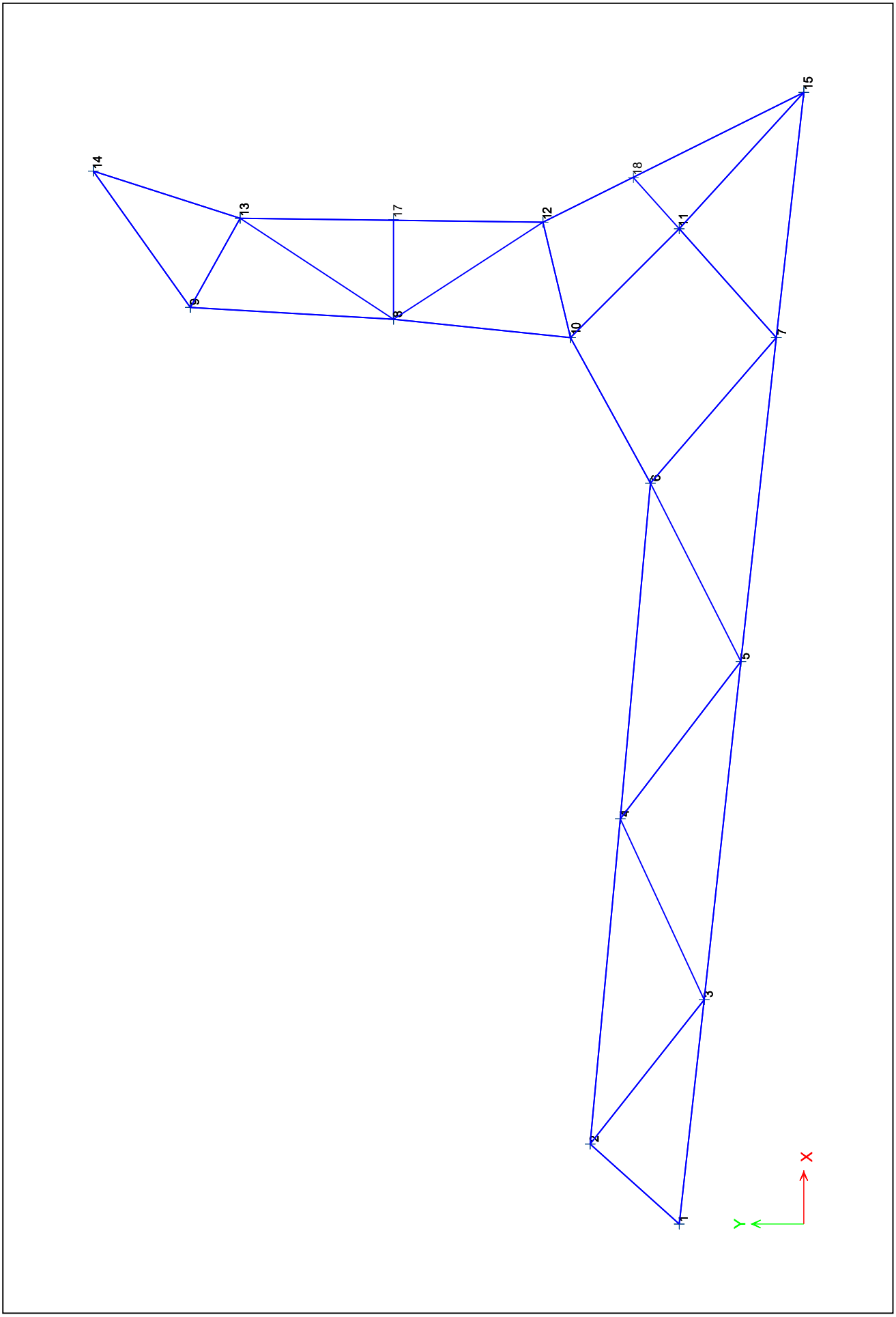

3-D View



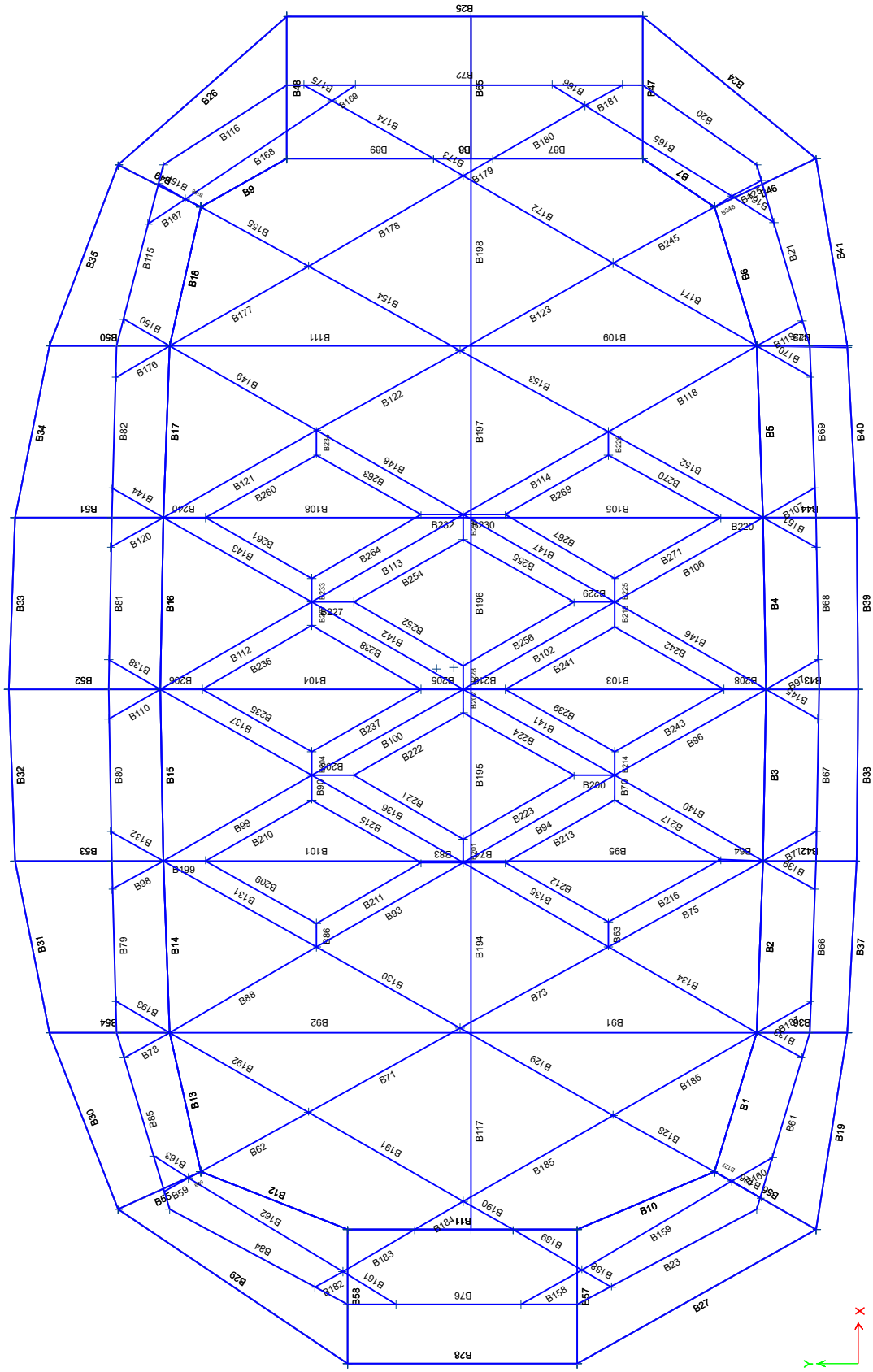

3-D View

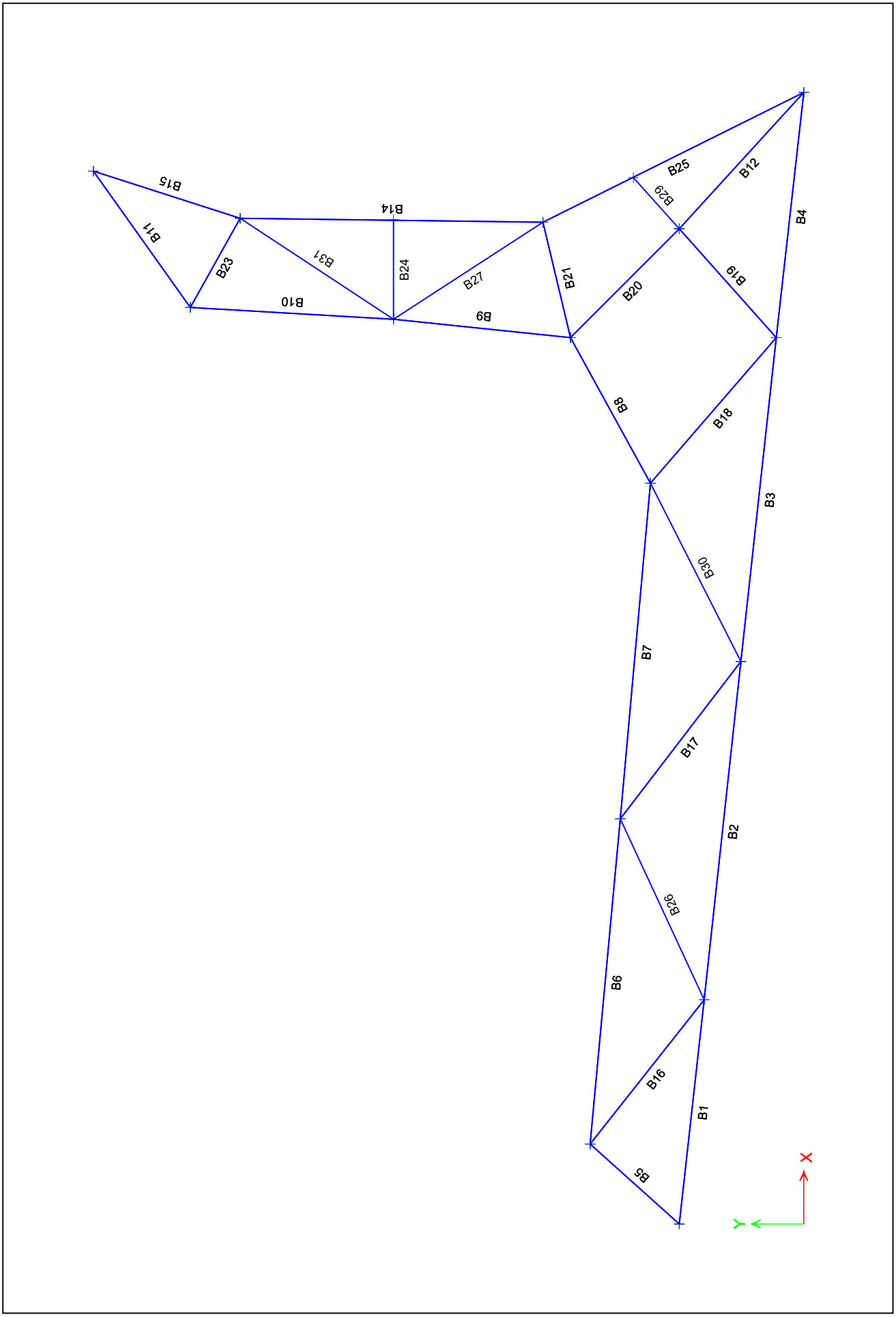


3-D View




3-D View




B15
B11
B23
B31
B14
B24
B10
B27
B9
B21
B25
B29
B12
B4
B20
B19
B8
B18
B3
B30
B7
B17
B2
B26
B6
B16
B1
B5
X
Y

3-D View

```
$ PROGRAM INFORMATION
PROGRAM  "ETABS 2019"  VERSION "19.2.1"

$ CONTROLS
  UNITS  "KGF"  "CM"  "C"
  TITLE2  "et1100613"
  PREFERENCE  MERGETOL 0.1
  RLLF  METHOD "UBC97"  USEDEFAULTMIN "YES"

$ STORIES - IN SEQUENCE FROM TOP
  STORY "PF"  HEIGHT 400
  STORY "1MF"  HEIGHT 400
  STORY "1F"  HEIGHT 150
  STORY "Base"  ELEV -150

$ GRIDS
  GRIDSYSTEM "G1"  TYPE "CARTESIAN"  BUBBLESIZE 100
  GRID "G1"  LABEL "X1"  DIR "X"  COORD 0 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X2"  DIR "X"  COORD 405.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X3"  DIR "X"  COORD 798.9 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X4"  DIR "X"  COORD 825.3 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X5"  DIR "X"  COORD 1277.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X6"  DIR "X"  COORD 1769.5 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X7"  DIR "X"  COORD 2203.5 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X8"  DIR "X"  COORD 2379.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X9"  DIR "X"  COORD 2520.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X10"  DIR "X"  COORD 2764.9 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X11"  DIR "X"  COORD 2818 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X12"  DIR "X"  COORD 2900.4 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X13"  DIR "X"  COORD 3208.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X14"  DIR "X"  COORD 3361 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X15"  DIR "X"  COORD 3442.5 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X16"  DIR "X"  COORD 3970.5 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X17"  DIR "X"  COORD 4546.3 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X18"  DIR "X"  COORD 5121.9 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X19"  DIR "X"  COORD 5698 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X20"  DIR "X"  COORD 6273.3 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X21"  DIR "X"  COORD 6801.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X22"  DIR "X"  COORD 6883.3 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X23"  DIR "X"  COORD 7020.4 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X24"  DIR "X"  COORD 7344.4 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "X25"  DIR "X"  COORD 7426.8 VISIBLE "Yes"  BUBBLELOC "End"
  GRID "G1"  LABEL "Y1"  DIR "Y"  COORD 0 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y2"  DIR "Y"  COORD 69.5 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y3"  DIR "Y"  COORD 116.4 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y4"  DIR "Y"  COORD 131.7 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y5"  DIR "Y"  COORD 169.7 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y6"  DIR "Y"  COORD 217 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y7"  DIR "Y"  COORD 282.4 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y8"  DIR "Y"  COORD 344 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y9"  DIR "Y"  COORD 450.3 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y10"  DIR "Y"  COORD 481.97 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y11"  DIR "Y"  COORD 548.57 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y12"  DIR "Y"  COORD 592.07 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y13"  DIR "Y"  COORD 645.57 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y14"  DIR "Y"  COORD 890.07 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y14-1"  DIR "Y"  COORD 1190.07 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y15"  DIR "Y"  COORD 1315.87 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y16"  DIR "Y"  COORD 1474.27 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y16-1"  DIR "Y"  COORD 1684.27 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y17"  DIR "Y"  COORD 1904.27 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y18"  DIR "Y"  COORD 2058.67 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y18-1"  DIR "Y"  COORD 2291.97 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y19"  DIR "Y"  COORD 2419.67 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y20"  DIR "Y"  COORD 2466.67 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y21"  DIR "Y"  COORD 2497.97 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y22"  DIR "Y"  COORD 2595.57 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y23"  DIR "Y"  COORD 2853.27 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y24"  DIR "Y"  COORD 2978.07 VISIBLE "Yes"  BUBBLELOC "Start"
  GRID "G1"  LABEL "Y25"  DIR "Y"  COORD 3001.37 VISIBLE "Yes"  BUBBLELOC "Start"

$ DIAPHRAGM NAMES
  DIAPHRAGM "D1"    TYPE RIGID

$ MATERIAL PROPERTIES
  MATERIAL  "STEEL"    TYPE "Steel"    WEIGHTPERVOLUME 0.007833414
  MATERIAL  "STEEL"    SYMTYPE "Isotropic"  E 2038902  U 0.3  A 1.16999999590917E-05
  MATERIAL  "STEEL"  FY 3515.348  FU 4569.953 FYE 3866.883  FUE 5026.948
  MATERIAL  "STEEL"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "CONC"    TYPE "Concrete"    WEIGHTPERVOLUME 0.002402616
  MATERIAL  "CONC"    SYMTYPE "Isotropic"  E 253105.1  U 0.2  A 9.89999989542412E-06
  MATERIAL  "CONC"    FC 281.227850455701
  MATERIAL  "CONC"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "CONC"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Simple"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
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  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "OTHER"    TYPE "Other"    WEIGHTPERVOLUME 0.007833414
  MATERIAL  "OTHER"    SYMTYPE "Isotropic"  E 2038902  U 0.3  A 1.16999999590917E-05
  MATERIAL  "OTHER"  DESIGNTYPE "OTHER"
  MATERIAL  "OTHER"  HYSTYPE "Elastic"  IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02 IGNORETENSIONACCEPTANCE "No"
  MATERIAL  "OTHER"  STRAIN -1 STRESS -1
  MATERIAL  "OTHER"  STRAIN 0 STRESS 0 POINTID "A"
  MATERIAL  "OTHER"  STRAIN 1 STRESS 1
  MATERIAL  "SN490"    TYPE "Steel"    WEIGHTPERVOLUME 0.007849048
  MATERIAL  "SN490"    SYMTYPE "Isotropic"  E 2040000  U 0.3  A 1.16999999590917E-05
  MATERIAL  "SN490"  FY 3300  FU 5000 FYE 3300  FUE 5000
  MATERIAL  "SN490"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "FC280"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "FC280"    SYMTYPE "Isotropic"  E 250998  U 0.2  A 9.89999989542412E-06
  MATERIAL  "FC280"    FC 280
  MATERIAL  "FC280"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "FC280"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "MP27"    TYPE "Steel"    WEIGHTPERVOLUME 0.00785
  MATERIAL  "MP27"    SYMTYPE "Isotropic"  E 2040000  U 0.3  A 0
  MATERIAL  "MP27"  FY 3515.348  FU 4569.953 FYE 3866.883  FUE 5026.948
  MATERIAL  "MP27"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "MP136"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "MP136"    SYMTYPE "Isotropic"  E 175700  U 0.17  A 0
  MATERIAL  "MP136"    FC 281.2279
  MATERIAL  "MP136"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "MP136"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Simple"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "MP137"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "MP137"    SYMTYPE "Isotropic"  E 150600  U 0.17  A 0
  MATERIAL  "MP137"    FC 281.2279
  MATERIAL  "MP137"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "MP137"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Simple"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SN400"    TYPE "Steel"    WEIGHTPERVOLUME 0.007849048
  MATERIAL  "SN400"    SYMTYPE "Isotropic"  E 2040000  U 0.3  A 1.16999999590917E-05
  MATERIAL  "SN400"  FY 2400  FU 4100 FYE 2400  FUE 4100
  MATERIAL  "SN400"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "FC245"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "FC245"    SYMTYPE "Isotropic"  E 234787  U 0.2  A 9.89999989542412E-06
  MATERIAL  "FC245"    FC 245
  MATERIAL  "FC245"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "FC245"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "MAT1"    TYPE "Concrete"    WEIGHTPERVOLUME 0
  MATERIAL  "MAT1"    SYMTYPE "Isotropic"  E 0.1  U 0.2  A 9.89999989542412E-06
  MATERIAL  "MAT1"    FC 0.1
  MATERIAL  "MAT1"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "MAT1"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Simple"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "A615Gr60"    TYPE "Rebar"    WEIGHTPERVOLUME 0.007849048
  MATERIAL  "A615Gr60"    SYMTYPE "Uniaxial"  E 2038902  A 1.16999999590917E-05
  MATERIAL  "A615Gr60"  FY 4218.418  FU 6327.626
  MATERIAL  "A615Gr60"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.01 STRAINATULTIMATE 0.09
  FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01
  CPCOMPRESSION 0.02
  MATERIAL  "A416Gr270"    TYPE "Tendon"    WEIGHTPERVOLUME 0.007849048
  MATERIAL  "A416Gr270"    SYMTYPE "Uniaxial"  E 2003748  A 1.16999999590917E-05
  MATERIAL  "A416Gr270"  FY 17232.24  FU 18982.88
  MATERIAL  "A416Gr270"  HYSTYPE "Kinematic"  SSTYPE "270ksi"  FINALSLOPE -0.1 IOTENSION 0.015 LSTENSION
  0.023 CPTENSION 0.03 IOCOMPRESSION 0.015 LSCOMPRESSION 0.023 CPCOMPRESSION 0.03
  MATERIAL  "SD420W"    TYPE "Rebar"    WEIGHTPERVOLUME 0.00785
  MATERIAL  "SD420W"    SYMTYPE "Uniaxial"  E 2040000  A 1.16999999590917E-05
  MATERIAL  "SD420W"  FY 4200  FU 5600
  MATERIAL  "SD420W"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.01 STRAINATULTIMATE 0.09
  FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01
  CPCOMPRESSION 0.02
  MATERIAL  "SD420"    TYPE "Rebar"    WEIGHTPERVOLUME 0.00785
  MATERIAL  "SD420"    SYMTYPE "Uniaxial"  E 2040000  A 1.16999999590917E-05
  MATERIAL  "SD420"  FY 4200  FU 6300
  MATERIAL  "SD420"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.01 STRAINATULTIMATE 0.09
  FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01
  CPCOMPRESSION 0.02
  MATERIAL  "SD280"    TYPE "Rebar"    WEIGHTPERVOLUME 0.00785
  MATERIAL  "SD280"    SYMTYPE "Uniaxial"  E 2040000  A 1.16999999590917E-05
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  MATERIAL  "SD280"  FY 2800  FU 4300
  MATERIAL  "SD280"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.01 STRAINATULTIMATE 0.09
  FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01
  CPCOMPRESSION 0.02
  MATERIAL  "fc210"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "fc210"    SYMTYPE "Isotropic"  E 217370  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc210"    FC 210
  MATERIAL  "fc210"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc210"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "fc350"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "fc350"    SYMTYPE "Isotropic"  E 280624  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc350"    FC 350
  MATERIAL  "fc350"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc350"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "fc420"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "fc420"    SYMTYPE "Isotropic"  E 307408  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc420"    FC 420
  MATERIAL  "fc420"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc420"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "fc490"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "fc490"    SYMTYPE "Isotropic"  E 332039  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc490"    FC 490
  MATERIAL  "fc490"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc490"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc210"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc210"    SYMTYPE "Isotropic"  E 108685  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc210"    FC 210
  MATERIAL  "SW-fc210"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc210"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc245"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc245"    SYMTYPE "Isotropic"  E 117393.5  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc245"    FC 245
  MATERIAL  "SW-fc245"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc245"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc280"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc280"    SYMTYPE "Isotropic"  E 125499  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc280"    FC 280
  MATERIAL  "SW-fc280"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc280"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc350"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc350"    SYMTYPE "Isotropic"  E 140312  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc350"    FC 350
  MATERIAL  "SW-fc350"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc350"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc420"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc420"    SYMTYPE "Isotropic"  E 153704  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc420"    FC 420
  MATERIAL  "SW-fc420"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc420"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc490"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc490"    SYMTYPE "Isotropic"  E 166019.5  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc490"    FC 490
  MATERIAL  "SW-fc490"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc490"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SN400YB"    TYPE "Steel"    WEIGHTPERVOLUME 0.007849048
  MATERIAL  "SN400YB"    SYMTYPE "Isotropic"  E 2040000  U 0.3  A 1.16999999590917E-05
  MATERIAL  "SN400YB"  FY 2500  FU 4100 FYE 2500  FUE 4100
  MATERIAL  "SN400YB"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "SM570M"    TYPE "Steel"    WEIGHTPERVOLUME 0.007849048
  MATERIAL  "SM570M"    SYMTYPE "Isotropic"  E 2040000  U 0.3  A 1.16999999590917E-05
  MATERIAL  "SM570M"  FY 4300  FU 5800 FYE 4300  FUE 5800
  MATERIAL  "SM570M"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "A36"    TYPE "Steel"    WEIGHTPERVOLUME 0.007849048
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  MATERIAL  "A36"    SYMTYPE "Isotropic"  E 2040000  U 0.3  A 1.16999999590917E-05
  MATERIAL  "A36"  FY 2500  FU 4000 FYE 2500  FUE 4000
  MATERIAL  "A36"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "SD420W-r"    TYPE "Rebar"    WEIGHTPERVOLUME 0.00785
  MATERIAL  "SD420W-r"    SYMTYPE "Uniaxial"  E 2040000  A 1.16999999590917E-05
  MATERIAL  "SD420W-r"  FY 3847.2  FU 5600
  MATERIAL  "SD420W-r"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.01 STRAINATULTIMATE 0.09
  FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01
  CPCOMPRESSION 0.02
  MATERIAL  "fc210-nomass"    TYPE "Concrete"    WEIGHTPERVOLUME 0
  MATERIAL  "fc210-nomass"    SYMTYPE "Isotropic"  E 217370  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc210-nomass"    FC 210
  MATERIAL  "fc210-nomass"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc210-nomass"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "SW-fc210-R0.1"    TYPE "Concrete"    WEIGHTPERVOLUME 0.0024
  MATERIAL  "SW-fc210-R0.1"    SYMTYPE "Isotropic"  E 21737  U 0.2  A 9.89999989542412E-06
  MATERIAL  "SW-fc210-R0.1"    FC 210
  MATERIAL  "SW-fc210-R0.1"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "SW-fc210-R0.1"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "fc280-nomass"    TYPE "Concrete"    WEIGHTPERVOLUME 0
  MATERIAL  "fc280-nomass"    SYMTYPE "Isotropic"  E 250998  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc280-nomass"    FC 280
  MATERIAL  "fc280-nomass"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc280-nomass"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "fc350-nomass"    TYPE "Concrete"    WEIGHTPERVOLUME 0
  MATERIAL  "fc350-nomass"    SYMTYPE "Isotropic"  E 280624  U 0.2  A 9.89999989542412E-06
  MATERIAL  "fc350-nomass"    FC 350
  MATERIAL  "fc350-nomass"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL  "fc350-nomass"  HYSTYPE "Concrete"  ENERGYDEGFACT 0 SSTYPE "Mander"  STRAINATFC 0.00221914
  STRAINATULTIMATE 0.005 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003
  LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "ROD"    TYPE "Steel"    WEIGHTPERVOLUME 0
  MATERIAL  "ROD"    SYMTYPE "Isotropic"  E 2038902  U 0.3  A 1.16999999590917E-05
  MATERIAL  "ROD"  FY 1250  FU 4569.953 FYE 3866.883  FUE 5026.948
  MATERIAL  "ROD"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11
  STRAINATRUPTURE 0.17 FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005
  LSCOMPRESSION 0.01 CPCOMPRESSION 0.02

$ REBAR DEFINITIONS
  REBARDEFINITION  "#2"  AREA  0.32258 DIA  0.635
  REBARDEFINITION  "#3"  AREA  0.709676 DIA  0.9525
  REBARDEFINITION  "#4"  AREA  1.29032 DIA  1.27
  REBARDEFINITION  "#5"  AREA  1.999996 DIA  1.5875
  REBARDEFINITION  "#6"  AREA  2.838704 DIA  1.905
  REBARDEFINITION  "#7"  AREA  3.87096 DIA  2.2225
  REBARDEFINITION  "#8"  AREA  5.096764 DIA  2.54
  REBARDEFINITION  "#9"  AREA  6.4516 DIA  2.86512
  REBARDEFINITION  "#10"  AREA  8.14 DIA  3.2258
  REBARDEFINITION  "#11"  AREA  10.0645 DIA  3.5814
  REBARDEFINITION  "#14"  AREA  14.5161 DIA  4.30022
  REBARDEFINITION  "#18"  AREA  25.8064 DIA  5.73278
  REBARDEFINITION  "10M"  AREA  1 DIA  1.13
  REBARDEFINITION  "15M"  AREA  2 DIA  1.6
  REBARDEFINITION  "20M"  AREA  3 DIA  1.95
  REBARDEFINITION  "25M"  AREA  5 DIA  2.52
  REBARDEFINITION  "30M"  AREA  7 DIA  2.99
  REBARDEFINITION  "35M"  AREA  10 DIA  3.57
  REBARDEFINITION  "45M"  AREA  15 DIA  4.37
  REBARDEFINITION  "55M"  AREA  25 DIA  5.64
  REBARDEFINITION  "6d"  AREA  0.283 DIA  0.6
  REBARDEFINITION  "8d"  AREA  0.503 DIA  0.8
  REBARDEFINITION  "10d"  AREA  0.785 DIA  1
  REBARDEFINITION  "12d"  AREA  1.13 DIA  1.2
  REBARDEFINITION  "14d"  AREA  1.54 DIA  1.4
  REBARDEFINITION  "16d"  AREA  2.01 DIA  1.6
  REBARDEFINITION  "20d"  AREA  3.14 DIA  2
  REBARDEFINITION  "25d"  AREA  4.91 DIA  2.5
  REBARDEFINITION  "26d"  AREA  5.31 DIA  2.6
  REBARDEFINITION  "28d"  AREA  6.16 DIA  2.8
  REBARDEFINITION  "N12"  AREA  1.13 DIA  1.2
  REBARDEFINITION  "N16"  AREA  2.01 DIA  1.6
  REBARDEFINITION  "N20"  AREA  3.14 DIA  2
  REBARDEFINITION  "N24"  AREA  4.52 DIA  2.4
  REBARDEFINITION  "N28"  AREA  6.16 DIA  2.8
  REBARDEFINITION  "N32"  AREA  8.04 DIA  3.2
  REBARDEFINITION  "N36"  AREA  10.2 DIA  3.6

$ FRAME SECTIONS
  FRAMESECTION  "C600X600X25"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 60 B 60 TF 2.5 TW 2.5
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  FRAMESECTION  "C600X600X28"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 60 B 60 TF 2.8 TW 2.8
  FRAMESECTION  "C600X600X32"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 60 B 60 TF 3.2 TW 3.2
  FRAMESECTION  "C600X600X36"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 60 B 60 TF 3.6 TW 3.6
  FRAMESECTION  "CE90X90"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 90 B 90
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "C600X600X40"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 60 B 60 TF 4 TW 4
  FRAMESECTION  "C600X600X45"  MATERIAL "MP27"  SHAPE "Steel Tube"  D 60 B 60 TF 4.5 TW 4.5
  FRAMESECTION  "BOX1000X1000X40"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 100 B 100 TF 4 TW 4
  FRAMESECTION  "RC1300X1300"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 130 B 130
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "C500X500X25"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 50 B 50 TF 2.5 TW 2.5
  FRAMESECTION  "C500X500X28"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 50 B 50 TF 2.8 TW 2.8
  FRAMESECTION  "C800X800"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 80 B 80
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "H250X125"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 25 B 12.5 TF 0.9 TW 0.6
  FRAMESECTION  "H300X150"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 30 B 15 TF 0.9 TW 0.65
  FRAMESECTION  "H350X175"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 35 B 17.5 TF 1.1 TW 0.7
  FRAMESECTION  "H400X200"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 40 B 20 TF 1.3 TW 0.8
  FRAMESECTION  "H390X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 39 B 30 TF 1.6 TW 1
  FRAMESECTION  "H450X200"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 45 B 20 TF 1.4 TW 0.9
  FRAMESECTION  "H500X200"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 50 B 20 TF 1.6 TW 1
  FRAMESECTION  "H588X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 58.8 B 30 TF 2 TW 1.2
  FRAMESECTION  "H600X200"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 60 B 20 TF 1.7 TW 1.1
  FRAMESECTION  "H700X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 70 B 30 TF 2.4 TW 1.3
  FRAMESECTION  "H800X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 80 B 30 TF 2.6 TW 1.4
  FRAMESECTION  "H800X400A"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 80 B 40 TF 2.8 TW 1.6
  FRAMESECTION  "H792X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 79.2 B 30 TF 2.2 TW 1.4
  FRAMESECTION  "H1000X600"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 100 B 60 TF 4 TW 1.6
  FRAMESECTION  "SFB60X250"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 250 B 60
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "FB80X280"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 280 B 80
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "H200X100"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 20 B 10 TF 0.8 TW 0.55
  FRAMESECTION  "C-H350X350"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 35 B 35 TF 1.9 TW 1.2
  FRAMESECTION  "H300X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 30 B 30 TF 1.5 TW 1
  FRAMESECTION  "H200X200"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 20 B 20 TF 1.2 TW 0.8
  FRAMESECTION  "SB40X70"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 70 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "SB40X65"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 65 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "SB50X75"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 75 B 50
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "SB40X60"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 60 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "SB25X50"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 50 B 25
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "SB30X50"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 50 B 30
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "B80X75"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 75 B 80
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "H650X400A"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 65 B 40 TF 2.8 TW 1.4
  FRAMESECTION  "H650X500B"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 65 B 50 TF 3.6 TW 1.8 TFB 3.2
  FRAMESECTION  "C200X200X12"  MATERIAL "SN400"  SHAPE "Steel Tube"  D 20 B 20 TF 1.2 TW 1.2
  FRAMESECTION  "H400X400"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 40 B 40 TF 2.1 TW 1.3
  FRAMESECTION  "H250X250"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 25 B 25 TF 1.4 TW 0.9
  FRAMESECTION  "B70X110"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 110 B 70
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "H1200X400"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 120 B 40 TF 4 TW 1.9
  FRAMESECTION  "H900X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 90 B 30 TF 2.8 TW 1.6
  FRAMESECTION  "H800X300+2PL"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 80 B 30 TF 2.6 TW 2.6
  FRAMESECTION  "ROD36"  MATERIAL "ROD"  SHAPE "Steel Rod"  D 3.6
  FRAMESECTION  "ROD36-2"  MATERIAL "ROD"  SHAPE "Steel Rod"  D 3.6
  FRAMESECTION  "H300X300-2"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 30 B 30 TF 1.5 TW 1
  FRAMESECTION  "H350X350"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 35 B 35 TF 1.9 TW 1.2
  FRAMESECTION  "H400X400+2PL"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 40 B 40 TF 2.1 TW 2.1
  FRAMESECTION  "H428X407"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 42.8 B 40.7 TF 3.5 TW 2
  FRAMESECTION  "H428X407+2PL"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 42.8 B 40.7 TF 3.5 TW 4.5
  FRAMESECTION  "H588X300+2PL"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 58.8 B 30 TF 2 TW 2
  FRAMESECTION  "H500X500"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 50 B 50 TF 4 TW 1.9
  FRAMESECTION  "H500X500+2PL"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 50 B 50 TF 4 TW 4.95
  FRAMESECTION  "H488X300"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 48.8 B 30 TF 1.8 TW 1.1
  FRAMESECTION  "B60X120"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 120 B 60
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "b50x80"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 80 B 50
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "B40X60-280"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 60 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "b50x110"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 110 B 50
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "H800X350"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 80 B 35 TF 3.2 TW 1.6
  FRAMESECTION  "SteelCol"  MATERIAL "ROD"  SHAPE "Steel I/Wide Flange"  D 50 B 50 TF 2.5 TW 1.25
  FRAMESECTION  "SteelBm"  MATERIAL "ROD"  SHAPE "Steel I/Wide Flange"  D 50 B 16.66667 TF 1.25 TW 0.625
  FRAMESECTION  "ConcCol"  MATERIAL "fc350-nomass"  SHAPE "Concrete Rectangular"  D 37.5 B 37.5
  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "ConcBm"  MATERIAL "fc350-nomass"  SHAPE "Concrete Rectangular"  D 50 B 37.5
  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "C40x80-280"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 40 B 80
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  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "C80x40-280"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 80 B 40
  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "C60x60-210"  MATERIAL "fc210"  SHAPE "Concrete Rectangular"  D 60 B 60
  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "C90x60-210"  MATERIAL "fc210"  SHAPE "Concrete Rectangular"  D 90 B 60
  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "TB30x60-280-NON"  MATERIAL "fc280-nomass"  SHAPE "Concrete Rectangular"  D 60 B 30
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "TB30x50-210-NON"  MATERIAL "fc210-nomass"  SHAPE "Concrete Rectangular"  D 50 B 30
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "H175*175*7.5*11-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 17.5 B 17.5 TF 1.1
  TW 0.75 R 1.3
  FRAMESECTION  "H300*300*10*15-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 30 B 30 TF 1.5 TW 1
  R 1.3
  FRAMESECTION  "H300*300*10*15-2*15-400"  MATERIAL "SN400"  SHAPE "Steel Tube"  D 30 B 30 TF 1.5 TW 1.5
  FRAMESECTION  "H588*300*12*20-2*20-490"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 58.8 B 30 TF 2 TW 2
  FRAMESECTION  "H350*175*7*11-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 35 B 17.5 TF 1.1 TW
  0.7 R 1.3
  FRAMESECTION  "H450*200*9*14-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 45 B 20 TF 1.4 TW 0.9
  R 1.3
  FRAMESECTION  "H700*300*13*24-490"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 70 B 30 TF 2.4 TW
  1.3 R 1.8
  FRAMESECTION  "H200*100*5.5*8-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 20 B 10 TF 0.8 TW
  0.55 R 0.8
  FRAMESECTION  "H250*125*6*9-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 25 B 12.5 TF 0.9 TW
  0.6 R 0.8
  FRAMESECTION  "H400*200*8*13-400"  MATERIAL "SN400"  SHAPE "Steel I/Wide Flange"  D 40 B 20 TF 1.3 TW 0.8
  R 1.3
  FRAMESECTION  "H588*300*12*20-490"  MATERIAL "SN490"  SHAPE "Steel I/Wide Flange"  D 58.8 B 30 TF 2 TW
  1.2
  FRAMESECTION  "FB40x245-280-NON"  MATERIAL "fc280-nomass"  SHAPE "Concrete Rectangular"  D 245 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "FB40x325-280-NON"  MATERIAL "fc280-nomass"  SHAPE "Concrete Rectangular"  D 325 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "B40X80-280"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 80 B 40
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10
  FRAMESECTION  "PIPE190.7x4.5t"  MATERIAL "SN490"  SHAPE "Steel Pipe"  D 19.07 T 0.45
  FRAMESECTION  "BOX150x100x4.5t"  MATERIAL "SN400"  SHAPE "Steel Tube"  D 15 B 10 TF 0.45 TW 0.45
  FRAMESECTION  "BOX400x200x12t"  MATERIAL "SN490"  SHAPE "Steel Tube"  D 40 B 20 TF 1.2 TW 1.2
  FRAMESECTION  "C45X45-280"  MATERIAL "FC280"  SHAPE "Concrete Rectangular"  D 45 B 45
  INCLUDEAUTORIGIDZONEAREA "No"
  FRAMESECTION  "PIPE267.4x8t"  MATERIAL "SN490"  SHAPE "Steel Pipe"  D 26.74 T 0.8
  FRAMESECTION  "BOX200x150x4.5t"  MATERIAL "SN400"  SHAPE "Steel Tube"  D 20 B 15 TF 0.45 TW 0.45
  FRAMESECTION  "BOX200x150x9t"  MATERIAL "SN400"  SHAPE "Steel Tube"  D 20 B 15 TF 0.9 TW 0.9
  FRAMESECTION  "FB50x245-280-NON"  MATERIAL "fc280-nomass"  SHAPE "Concrete Rectangular"  D 245 B 50
  INCLUDEAUTORIGIDZONEAREA "No"  NOTIONALUSERVALUE 10

$ CONCRETE SECTIONS
  CONCRETESECTION  "CE90X90"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"
  PATTERN "R-3-3"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 6.926564 LONGBARAREA 6.4516 CONFINEBARARE
  0.32258 CONFINEBARSPACING 15 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "RC1300X1300"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Column"
  PATTERN "R-3-3"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 4 LONGBARAREA 6.4516 CONFINEBARAREA 0.322
  CONFINEBARSPACING 15 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "C800X800"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"
  PATTERN "R-3-3"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 5.926564 LONGBARAREA 6.4516 CONFINEBARARE
  0.32258 CONFINEBARSPACING 15 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "SFB60X250"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 25 COVERBOTTOM 25 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "FB80X280"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Beam"  COVERTOP
  25 COVERBOTTOM 25 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "SB40X70"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "SB40X65"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 6.5 COVERBOTTOM 6.5 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "SB50X75"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 7.5 COVERBOTTOM 7.5 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "SB40X60"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 6 COVERBOTTOM 6 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "SB25X50"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 5 COVERBOTTOM 5 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "SB30X50"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 5 COVERBOTTOM 5 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "B80X75"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Beam"  COVERTOP 7
  COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "B70X110"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Beam"  COVERTOP 7
  COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "B60X120"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Beam"  COVERTOP 7
  COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "b50x80"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Beam"  COVERTOP 7
  COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "B40X60-280"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "b50x110"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD420"  TYPE "Beam"  COVERTOP 7
  COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "ConcCol"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"
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  0.32258 CONFINEBARSPACING 15 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "ConcBm"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"
  COVERTOP 6 COVERBOTTOM 6 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "C40x80-280"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Column"
  PATTERN "R-5-5"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 4 LONGBARAREA 8.14 CONFINEBARAREA 1.29032
  CONFINEBARSPACING 10 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "C80x40-280"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Column"
  PATTERN "R-5-5"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 4 LONGBARAREA 8.14 CONFINEBARAREA 1.29032
  CONFINEBARSPACING 10 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "C60x60-210"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Column"
  PATTERN "R-5-5"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 4 LONGBARAREA 8.14 CONFINEBARAREA 1.29032
  CONFINEBARSPACING 10 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "C90x60-210"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Column"
  PATTERN "R-5-5"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 4 LONGBARAREA 8.14 CONFINEBARAREA 1.29032
  CONFINEBARSPACING 10 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "TB30x60-280-NON"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "TB30x50-210-NON"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "FB40x245-280-NON"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "FB40x325-280-NON"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "B40X80-280"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0
  CONCRETESECTION  "C45X45-280"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Column"
  PATTERN "R-5-5"  TRANSREINF "TIES"  DESIGNCHECK "DESIGN"  COVER 4 LONGBARAREA 8.14 CONFINEBARAREA 1.29032
  CONFINEBARSPACING 10 NUMCONFINEBARS3 3 NUMCONFINEBARS2 3
  CONCRETESECTION  "FB50x245-280-NON"  LONGBARMATERIAL "SD420W"  CONFINEBARMATERIAL "SD280"  TYPE "Beam"
  COVERTOP 7 COVERBOTTOM 7 ATI 0 ABI 0 ATJ 0 ABJ 0

$ TENDON SECTIONS
  TENDONSECTION  "Tendon1"  MATERIAL  "SN490"  STRANDAREA  0.9870948

$ SLAB PROPERTIES
  SHELLPROP  "FS60"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  SLABTYPE "Slab"
  SLABTHICKNESS 60 NOTIONALUSERVALUE 10
  SHELLPROP  "PLANK1"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  ONEWAYLOADDIST "Yes"
  SLABTYPE "Slab"  SLABTHICKNESS 25 NOTIONALUSERVALUE 10
  SHELLPROP  "PLANK1"  F11MOD 0.01 F22MOD 0.01
  SHELLPROP  "S0"  PROPTYPE  "Slab"  MATERIAL "fc210-nomass"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 15 NOTIONALUSERVALUE 10
  SHELLPROP  "ES25"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  SLABTYPE "Slab"
  SLABTHICKNESS 25 NOTIONALUSERVALUE 10
  SHELLPROP  "SLAB1"  PROPTYPE  "Slab"  MATERIAL "MAT1"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 0.1 NOTIONALUSERVALUE 10
  SHELLPROP  "T20"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 20 NOTIONALUSERVALUE 10
  SHELLPROP  "T20S"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 20 NOTIONALUSERVALUE 10
  SHELLPROP  "DECK150S"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 15 NOTIONALUSERVALUE 10
  SHELLPROP  "DECK150CS"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 15 NOTIONALUSERVALUE 10
  SHELLPROP  "Slab0"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 20 NOTIONALUSERVALUE 10
  SHELLPROP  "DECK150"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 15 NOTIONALUSERVALUE 10
  SHELLPROP  "S-none"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  SLABTYPE "Slab"
  SLABTHICKNESS 0.01 NOTIONALUSERVALUE 10
  SHELLPROP  "T15-280"  PROPTYPE  "Slab"  MATERIAL "FC280"  MODELINGTYPE "Membrane"  SLABTYPE "Slab"
  SLABTHICKNESS 15 NOTIONALUSERVALUE 10
  SHELLPROP  "T0"  PROPTYPE  "Slab"  MATERIAL "fc280-nomass"  MODELINGTYPE "ShellThin"  SLABTYPE "Slab"
  SLABTHICKNESS 0.2 NOTIONALUSERVALUE 10
  SHELLPROP  "T0"  M11MOD 0.0001 M22MOD 0.0001 M12MOD 0.0001 V13MOD 0.0001 V23MOD 0.0001
  SHELLPROP  "T11-210"  PROPTYPE  "Slab"  MATERIAL "fc210"  MODELINGTYPE "Membrane"  ONEWAYLOADDIST "Yes"
  SLABTYPE "Slab"  SLABTHICKNESS 11.1 NOTIONALUSERVALUE 10
  SHELLPROP  "T40-280-NON"  PROPTYPE  "Slab"  MATERIAL "fc280-nomass"  MODELINGTYPE "Membrane"  SLABTYPE
  "Slab"  SLABTHICKNESS 40 NOTIONALUSERVALUE 10
  SHELLPROP  "T15-280-NON"  PROPTYPE  "Slab"  MATERIAL "fc280-nomass"  MODELINGTYPE "Membrane"  SLABTYPE
  "Slab"  SLABTHICKNESS 15 NOTIONALUSERVALUE 10

$ DECK PROPERTIES
  SHELLPROP  "DECK15"  PROPTYPE  "Deck"  DECKTYPE "Filled"  CONCMATERIAL "FC280"  DECKMATERIAL "STEEL"
  DECKSLABDEPTH 8.89 DECKRIBDEPTH 7.62 DECKRIBWIDTHTOP 15.24 DECKRIBWIDTHBOTTOM 15.24 DECKRIBSPACING 30.48
  DECKSHEARTHICKNESS 0.0889 DECKUNITWEIGHT 0.00112 SHEARSTUDDIAM 1.91 SHEARSTUDHEIGHT 15.24 SHEARSTUDFU
  4218.418
  SHELLPROP  "DECK18"  PROPTYPE  "Deck"  DECKTYPE "Filled"  CONCMATERIAL "FC245"  DECKMATERIAL "STEEL"
  DECKSLABDEPTH 10.38 DECKRIBDEPTH 7.62 DECKRIBWIDTHTOP 15.24 DECKRIBWIDTHBOTTOM 15.24 DECKRIBSPACING 30.48
  DECKSHEARTHICKNESS 0.0889 DECKUNITWEIGHT 0.00112 SHEARSTUDDIAM 1.91 SHEARSTUDHEIGHT 15.24 SHEARSTUDFU
  4569.953

$ WALL PROPERTIES
  SHELLPROP  "WALL50"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 50
  NOTIONALUSERVALUE 10
  SHELLPROP  "PP1"  PROPTYPE  "Wall"  MATERIAL "MP136"  MODELINGTYPE "Membrane"  WALLTHICKNESS 45
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  NOTIONALUSERVALUE 10
  SHELLPROP  "PP2"  PROPTYPE  "Wall"  MATERIAL "MP137"  MODELINGTYPE "Membrane"  WALLTHICKNESS 25
  NOTIONALUSERVALUE 10
  SHELLPROP  "WALL90"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 90
  NOTIONALUSERVALUE 10
  SHELLPROP  "Wall40"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 40
  NOTIONALUSERVALUE 10
  SHELLPROP  "BW40-280"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 40
  NOTIONALUSERVALUE 10
  SHELLPROP  "BW35-280"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 35
  NOTIONALUSERVALUE 10
  SHELLPROP  "BW45-280"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 45
  NOTIONALUSERVALUE 10
  SHELLPROP  "BW50-280"  PROPTYPE  "Wall"  MATERIAL "FC280"  MODELINGTYPE "ShellThin"  WALLTHICKNESS 50
  NOTIONALUSERVALUE 10

$ LINK PROPERTIES
  LINKPROP  "NLPR1"  TYPE "DAMPER - EXPONENTIAL"
  LINKPROP  "NLPR1"  DOF "U1"
  LINKPROP  "L1"  TYPE "LINEAR"
  LINKPROP  "L1"  DOF "U2"
  LINKPROP  "L1"  DOF "U3"
  LINKPROP  "L1"  U2STIFF 1E+11 U3STIFF 1E+11

$ PANEL ZONE PROPERTIES
  PANELZONE  "PZone1"  PZTYPE  "From Column"  PZDOUBLER  0

$ POINT SPRING PROPERTIES
  POINTSPRING  "PSpr1"  STIFFNESSOPTION  "USERDEFINED"  UZ  0
  POINTSPRING  "PSpr1"  LINKPROP "L1"  AXIALDIR "+Z"  ANGLE  0

$ PIER/SPANDREL NAMES
  PIERNAME  "P1"
  SPANDRELNAME  "S1"

$ POINT COORDINATES
  POINT "4"  798.9 592.07
  POINT "8"  1769.5 344
  POINT "13"  3970.5 169.7
  POINT "14"  4546.3 131.7
  POINT "15"  5121.9 116.4
  POINT "16"  5698 131.7
  POINT "17"  6273.3 169.7
  POINT "18"  6883.3 217
  POINT "19"  3970.5 481.97
  POINT "20"  4546.3 450.3
  POINT "21"  5121.9 450.3
  POINT "22"  5698 450.3
  POINT "23"  6273.3 481.97
  POINT "24"  3970.5 2466.67
  POINT "25"  4546.3 2497.97
  POINT "26"  5121.9 2497.97
  POINT "27"  5698 2497.97
  POINT "28"  6273.3 2466.67
  POINT "29"  3970.5 2853.27
  POINT "30"  4546.3 2978.07
  POINT "31"  5121.9 3001.37
  POINT "32"  5698 2978.07
  POINT "33"  6273.3 2853.27
  POINT "34"  2818 1474.27
  POINT "35"  2900.4 890.07
  POINT "36"  2900.4 2058.67
  POINT "37"  3208.8 2058.67
  POINT "38"  3208.8 1474.27
  POINT "39"  3208.8 890.07
  POINT "40"  3361 2595.57
  POINT "41"  3442.5 2419.67
  POINT "42"  3442.5 548.57
  POINT "43"  6801.8 2419.67
  POINT "44"  6883.3 2595.57
  POINT "45"  7020.4 2058.67
  POINT "46"  7344.4 2058.67
  POINT "47"  7020.4 890.07
  POINT "48"  7344.4 890.07
  POINT "62"  6801.8 548.57
  POINT "64"  7020.4 1474.27
  POINT "65"  7344.4 1474.27
  POINT "49"  5038.9 304.3
  POINT "69"  5204.9 304.3
  POINT "83"  4629.3 304.3
  POINT "85"  4458.3 310.3
  POINT "86"  4049.5 343.97
  POINT "87"  3898.5 355.97
  POINT "88"  3525.5 403.57
  POINT "89"  3380.5 442.57
  POINT "90"  3082.8 940.07
  POINT "99"  3071.8 1150.07
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POINT "100"  3071.8 1796.67
POINT "101"  3082.8 2007.67
POINT "102"  3382.5 2525.67
POINT "103"  3525.5 2564.67
POINT "104"  3891.5 2604.67
POINT "105"  4059.5 2622.67
POINT "106"  4444.3 2662.97
POINT "107"  4647.3 2674.97
POINT "108"  5020.9 2675.97
POINT "109"  5222.9 2675.97
POINT "110"  5598 2673.97
POINT "111"  5792 2662.97
POINT "112"  6184.3 2623.67
POINT "113"  6352.3 2605.67
POINT "114"  6715.8 2555.67
POINT "115"  6858.8 2516.67
POINT "116"  7146.4 2006.67
POINT "117"  7157.4 1798.67
POINT "118"  7157.4 1150.07
POINT "119"  7146.4 940.07
POINT "120"  6861.8 442.57
POINT "121"  6718.8 403.57
POINT "122"  6344.3 355.97
POINT "123"  6194.3 343.97
POINT "124"  5778 330.3
POINT "125"  5615 304.3
POINT "135"  3139.776 1038.225
POINT "136"  3392.811 1474.138
POINT "137"  3139.154 1910.684
POINT "139"  3687.629 1982.034
POINT "141"  4250.551 1975.805
POINT "143"  4828.542 1985.16
POINT "145"  5411.347 1991.492
POINT "147"  5993.128 1976.321
POINT "149"  6554.625 1975.629
POINT "151"  7093.399 1912.153
POINT "153"  6840.944 1474.595
POINT "154"  7090.988 1037.036
POINT "155"  6557.74 979.4268
POINT "157"  5991.631 974.2203
POINT "159"  5411.396 956.996
POINT "161"  4828.56 963.4451
POINT "163"  4252.371 975.8585
POINT "165"  3682.734 975.3777
POINT "166"  3969.305 1480.184
POINT "167"  4536.899 1474.278
POINT "168"  5118.15 1474.287
POINT "169"  5706.497 1474.078
POINT "170"  6275.109 1478.448
POINT "177"  6801.8 548.57 195
POINT "178"  6273.3 481.97 195
POINT "179"  5698 450.3 195
POINT "180"  5121.9 450.3 195
POINT "181"  4546.3 450.3 195
POINT "182"  3970.5 481.97 195
POINT "183"  3442.5 548.57 195
POINT "184"  3208.8 890.07 195
POINT "185"  3208.8 1474.27 195
POINT "186"  3208.8 2058.67 195
POINT "187"  3442.5 2419.67 195
POINT "188"  3970.5 2466.67 195
POINT "189"  4546.3 2497.97 195
POINT "190"  5121.9 2497.97 195
POINT "191"  5698 2497.97 195
POINT "192"  6273.3 2466.67 195
POINT "193"  6801.8 2419.67 195
POINT "194"  7020.4 2058.67 195
POINT "195"  7020.4 890.07 195
POINT "138"  0 450.3
POINT "146"  2900.4 2419.67
POINT "148"  2520.8 2058.67
POINT "150"  2379.8 1684.27
POINT "156"  2379.8 1190.07
POINT "160"  2379.8 282.4
POINT "171"  3208.8 217
POINT "196"  1072.8 344
POINT "197"  2052.152 729.1132
POINT "198"  1374.929 654.0677
POINT "200"  3088.499 2277.928
POINT "202"  2608.404 264.3654
POINT "204"  3079.741 2267.72
POINT "213"  551.2459 548.1222
POINT "214"  624.8481 388.386
POINT "215"  1149.181 629.7705
POINT "216"  1388.971 344
POINT "217"  1765.798 697.3813
POINT "218"  2042.57 316.438
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LINE "874"  BEAM "42"  "19"  0
LINE "875"  BEAM "19"  "20"  0
LINE "876"  BEAM "20"  "21"  0
LINE "877"  BEAM "21"  "22"  0
LINE "878"  BEAM "22"  "23"  0
LINE "881"  BEAM "17"  "23"  0
LINE "882"  BEAM "23"  "62"  0
LINE "883"  BEAM "62"  "47"  0
LINE "884"  BEAM "47"  "45"  0
LINE "885"  BEAM "43"  "45"  0
LINE "887"  BEAM "13"  "19"  0
LINE "888"  BEAM "14"  "20"  0
LINE "889"  BEAM "15"  "21"  0
LINE "890"  BEAM "16"  "22"  0
LINE "891"  BEAM "62"  "18"  0
LINE "893"  BEAM "47"  "48"  0
LINE "894"  BEAM "64"  "65"  0
LINE "B100"  BEAM "45"  "46"  0
LINE "B101"  BEAM "43"  "44"  0
LINE "B102"  BEAM "28"  "33"  0
LINE "B103"  BEAM "27"  "32"  0
LINE "B104"  BEAM "26"  "31"  0
LINE "B105"  BEAM "25"  "30"  0
LINE "B106"  BEAM "24"  "29"  0
LINE "B107"  BEAM "40"  "41"  0
LINE "B108"  BEAM "36"  "37"  0
LINE "B109"  BEAM "34"  "38"  0
LINE "B22"  BEAM "62"  "48"  0
LINE "B114"  BEAM "90"  "89"  0
LINE "B116"  BEAM "99"  "90"  0
LINE "B117"  BEAM "89"  "100"  0
LINE "B118"  BEAM "100"  "101"  0
LINE "B122"  BEAM "101"  "102"  0
LINE "B123"  BEAM "102"  "103"  0
LINE "B124"  BEAM "103"  "106"  0
LINE "B125"  BEAM "104"  "106"  0
LINE "B127"  BEAM "105"  "106"  0
LINE "B128"  BEAM "106"  "107"  0
LINE "B129"  BEAM "107"  "108"  0
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LINE "B132"  BEAM "109"  "110"  0
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LINE "B155"  BEAM "85"  "83"  0
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LINE "B159"  BEAM "88"  "87"  0
LINE "B160"  BEAM "89"  "88"  0
LINE "B161"  BEAM "101"  "137"  0
LINE "B162"  BEAM "137"  "136"  0
LINE "B163"  BEAM "136"  "165"  0
LINE "B168"  BEAM "99"  "135"  0
LINE "B174"  BEAM "139"  "166"  0
LINE "B175"  BEAM "166"  "163"  0
LINE "B180"  BEAM "143"  "167"  0
LINE "B181"  BEAM "160"  "167"  0
LINE "B186"  BEAM "143"  "168"  0
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LINE "B192"  BEAM "145"  "169"  0
LINE "B193"  BEAM "169"  "157"  0
LINE "B198"  BEAM "147"  "170"  0
LINE "B199"  BEAM "170"  "155"  0
LINE "B204"  BEAM "149"  "152"  0
LINE "B205"  BEAM "152"  "153"  0
LINE "B206"  BEAM "153"  "119"  0
LINE "B209"  BEAM "151"  "117"  0
LINE "B210"  BEAM "100"  "137"  0
LINE "B213"  BEAM "90"  "135"  0
LINE "B214"  BEAM "135"  "136"  0
LINE "B215"  BEAM "136"  "139"  0
LINE "B220"  BEAM "165"  "166"  0
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LINE "B327"  BEAM "198"  "8"  0
LINE "B328"  BEAM "197"  "160"  0
LINE "B329"  BEAM "156"  "35"  0
LINE "B330"  BEAM "35"  "171"  0
LINE "B334"  BEAM "146"  "206"  0
LINE "B340"  BEAM "202"  "35"  0
LINE "B344"  BEAM "146"  "204"  0
LINE "B355"  BEAM "213"  "214"  0
LINE "B362"  BEAM "215"  "216"  0
LINE "B369"  BEAM "217"  "218"  0
LINE "B376"  BEAM "220"  "219"  0
LINE "B382"  BEAM "222"  "171"  0
LINE "B387"  BEAM "224"  "222"  0
LINE "B392"  BEAM "226"  "224"  0
LINE "B396"  BEAM "228"  "228"  0
LINE "B401"  BEAM "228"  "230"  0
LINE "D2"  BRACE "13"  "177"  1
LINE "D3"  BRACE "17"  "178"  1
LINE "D4"  BRACE "18"  "179"  1
LINE "D5"  BRACE "15"  "180"  1
LINE "D6"  BRACE "14"  "181"  1
LINE "D7"  BRACE "13"  "182"  1
LINE "D9"  BRACE "35"  "185"  1
LINE "D10"  BRACE "34"  "185"  1
LINE "D11"  BRACE "36"  "186"  1
LINE "D12"  BRACE "29"  "188"  1
LINE "D13"  BRACE "30"  "189"  1
LINE "D14"  BRACE "31"  "190"  1
LINE "D15"  BRACE "32"  "191"  1
LINE "D16"  BRACE "33"  "192"  1
LINE "D17"  BRACE "48"  "193"  1
LINE "D18"  BRACE "46"  "194"  1
LINE "D19"  BRACE "44"  "195"  1
LINE "D20"  BRACE "40"  "187"  1
LINE "D1"  BRACE "171"  "183"  1

$ AREA CONNECTIVITIES
  AREA "M1"  PANEL  4  "17"  "18"  "177"  "178"  1  1  0  0
  AREA "M2"  PANEL  4  "16"  "17"  "178"  "179"  1  1  0  0
  AREA "M3"  PANEL  4  "15"  "16"  "179"  "180"  1  1  0  0
  AREA "M4"  PANEL  4  "14"  "15"  "180"  "181"  1  1  0  0
  AREA "M5"  PANEL  4  "13"  "14"  "181"  "182"  1  1  0  0
  AREA "M7"  PANEL  4  "35"  "34"  "185"  "184"  1  1  0  0
  AREA "M8"  PANEL  4  "36"  "186"  "185"  "34"  1  0  0  1
  AREA "M9"  PANEL  4  "40"  "36"  "186"  "187"  1  1  0  0
  AREA "M10"  PANEL  4  "29"  "40"  "187"  "188"  1  1  0  0
  AREA "M11"  PANEL  4  "30"  "29"  "188"  "189"  1  1  0  0
  AREA "M12"  PANEL  4  "31"  "30"  "189"  "190"  1  1  0  0
  AREA "M13"  PANEL  4  "32"  "31"  "190"  "191"  1  1  0  0
  AREA "M14"  PANEL  4  "33"  "32"  "191"  "192"  1  1  0  0
  AREA "M15"  PANEL  4  "44"  "33"  "192"  "193"  1  1  0  0
  AREA "M16"  PANEL  4  "46"  "44"  "193"  "194"  1  1  0  0
  AREA "M17"  PANEL  4  "48"  "46"  "194"  "195"  1  1  0  0
  AREA "M18"  PANEL  4  "18"  "48"  "195"  "177"  1  1  0  0
  AREA "M20"  PANEL  4  "171"  "13"  "182"  "183"  1  1  0  0
  AREA "M21"  PANEL  4  "35"  "171"  "183"  "184"  1  1  0  0
  AREA "F93"  FLOOR  4  "13"  "14"  "20"  "19"  0  0  0  0
  AREA "F97"  FLOOR  4  "14"  "15"  "21"  "20"  0  0  0  0
  AREA "F102"  FLOOR  4  "15"  "16"  "22"  "21"  0  0  0  0
  AREA "F107"  FLOOR  4  "16"  "17"  "23"  "22"  0  0  0  0
  AREA "F113"  FLOOR  4  "17"  "18"  "62"  "23"  0  0  0  0
  AREA "F116"  FLOOR  4  "34"  "35"  "39"  "38"  0  0  0  0
  AREA "F117"  FLOOR  4  "36"  "34"  "38"  "37"  0  0  0  0
  AREA "F118"  FLOOR  4  "40"  "36"  "37"  "41"  0  0  0  0
  AREA "F119"  FLOOR  4  "29"  "40"  "41"  "24"  0  0  0  0
  AREA "F120"  FLOOR  4  "30"  "29"  "24"  "25"  0  0  0  0
  AREA "F121"  FLOOR  4  "31"  "30"  "25"  "26"  0  0  0  0
  AREA "F122"  FLOOR  4  "32"  "31"  "26"  "27"  0  0  0  0
  AREA "F123"  FLOOR  4  "33"  "32"  "27"  "28"  0  0  0  0
  AREA "F124"  FLOOR  4  "44"  "33"  "28"  "43"  0  0  0  0
  AREA "F125"  FLOOR  4  "46"  "44"  "43"  "45"  0  0  0  0
  AREA "F126"  FLOOR  3  "39"  "42"  "19"  "20"  "22"  "23"  "62"  "47"  "45"  "43"  "28"  "27"  "25"
  "24"  "41"  "37"  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  AREA "F129"  FLOOR  4  "47"  "48"  "65"  "64"  0  0  0  0
  AREA "F130"  FLOOR  4  "64"  "65"  "46"  "45"  0  0  0  0
  AREA "F131"  FLOOR  3  "62"  "18"  "48"  0  0  0
  AREA "F52"  FLOOR  4  "35"  "39"  "38"  "34"  0  0  0  0
  AREA "F56"  FLOOR  4  "34"  "38"  "37"  "36"  0  0  0  0
  AREA "F57"  FLOOR  4  "36"  "37"  "41"  "40"  0  0  0  0
  AREA "F75"  FLOOR  4  "41"  "24"  "29"  "40"  0  0  0  0
  AREA "F112"  FLOOR  3  "39"  "35"  "42"  0  0  0
  AREA "F3"  FLOOR  36  "89"  "88"  "87"  "86"  "85"  "83"  "49"  "69"  "125"  "124"  "123"  "122"  "121"
  "120"  "119"  "118"  "117"  "116"  "115"  "114"  "113"  "112"  "111"  "110"  "109"  "108"  "107"  "106"
  "105"  "104"  "103"  "102"  "101"  "100"  "99"  "90"  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
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```
  POINTASSIGN  "13"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "14"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "15"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "16"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "17"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "18"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "138"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "4"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "146"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "148"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "150"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "156"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "160"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "171"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "196"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "197"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "198"  "Base"  RESTRAINT "UX UY UZ"
  POINTASSIGN  "200"  "1F"  DIAPH "D1"
  POINTASSIGN  "202"  "1MF"  DIAPH "D1"
  POINTASSIGN  "204"  "1MF"  DIAPH "D1"
  POINTASSIGN  "213"  "1MF"  DIAPH "D1"
  POINTASSIGN  "214"  "1MF"  DIAPH "D1"
  POINTASSIGN  "215"  "1MF"  DIAPH "D1"
  POINTASSIGN  "216"  "1MF"  DIAPH "D1"
  POINTASSIGN  "217"  "1MF"  DIAPH "D1"
  POINTASSIGN  "218"  "1MF"  DIAPH "D1"
  POINTASSIGN  "219"  "1MF"  DIAPH "D1"
  POINTASSIGN  "220"  "1MF"  DIAPH "D1"
  POINTASSIGN  "222"  "1MF"  DIAPH "D1"
  POINTASSIGN  "224"  "1MF"  DIAPH "D1"
  POINTASSIGN  "226"  "1MF"  DIAPH "D1"
  POINTASSIGN  "228"  "1MF"  DIAPH "D1"
  POINTASSIGN  "230"  "1MF"  DIAPH "D1"

$ LINE ASSIGNS
  LINEASSIGN  "C57"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C4"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C68"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C70"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C69"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C66"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C8"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C64"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C63"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C62"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C61"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 0.75 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C67"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C13"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C14"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C15"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C16"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C17"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C18"  "1MF"  SECTION "PIPE267.4x8t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C19"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C20"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C21"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C22"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C23"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C24"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C25"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C26"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C27"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C28"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C29"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C30"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C31"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C32"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C33"  "1MF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C34"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C35"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C36"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C37"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C38"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C39"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C40"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C41"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C42"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C43"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C44"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C45"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C46"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C19"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C20"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C21"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C22"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C23"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C24"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
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  LINEASSIGN  "C25"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C26"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C27"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C28"  "PF"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C37"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C38"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C39"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C41"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C42"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C43"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C45"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "C47"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
  LINEASSIGN  "B194"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B323"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B203"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B207"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B201"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B318"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B236"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B243"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B246"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B17"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B18"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B19"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B20"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B21"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B211"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B216"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B225"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B322"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B319"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B324"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B50"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B51"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B53"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B54"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B55"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B56"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B57"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B58"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B59"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B60"  "1F"  SECTION "FB50x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B63"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B64"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B65"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B66"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B67"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B68"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B69"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
  "POINTSANDLINES"
  LINEASSIGN  "B70"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
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"POINTSANDLINES"
LINEASSIGN  "B71"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B72"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B73"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B74"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B75"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B76"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B77"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B78"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B82"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B83"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B84"  "1F"  SECTION "FB50x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B85"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B248"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B87"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B88"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B89"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B90"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B81"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B91"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B93"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B94"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B61"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B100"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B101"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B102"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B103"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B104"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B105"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B106"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B107"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B108"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B109"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B207"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B246"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B17"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B18"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B19"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B20"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B21"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B53"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B54"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B55"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B56"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
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LINEASSIGN  "B57"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B58"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B59"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B60"  "1MF"  SECTION "B40X80-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B62"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B63"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B64"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B65"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B66"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B67"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B68"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B69"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B70"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B71"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B72"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B73"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B74"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B75"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B76"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B77"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B78"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B82"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B83"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B84"  "1MF"  SECTION "B40X80-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B85"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B87"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B88"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B89"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B90"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B81"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B91"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B94"  "1MF"  SECTION "B40X80-280"  RELEASE "PINNED"RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50
MESH "POINTSANDLINES"
LINEASSIGN  "B100"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B101"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B102"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B103"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B104"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B105"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B106"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B107"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B108"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B109"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "C49"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "B22"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
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LINEASSIGN  "C49"  "PF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "B322"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B248"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B211"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B51"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B50"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B225"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B64"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B65"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B66"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B67"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B68"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B69"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B70"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B71"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B72"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B73"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B74"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B75"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B76"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B77"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B78"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B82"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B83"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B84"  "PF"  SECTION "B40X80-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B85"  "PF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B114"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B116"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B117"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B118"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B122"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B123"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B124"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B125"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B127"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B128"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B129"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B131"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B132"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B133"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B134"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B135"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B137"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B138"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
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LINEASSIGN  "B139"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B141"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B142"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B143"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B145"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B146"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B147"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B148"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B149"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B151"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B152"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B153"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B154"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B155"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B156"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B158"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B159"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B160"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B161"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B162"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B163"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B304"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B305"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B168"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B308"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B309"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B264"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B265"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B174"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B175"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B300"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B301"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B260"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B261"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B180"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B181"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B296"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B297"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B256"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B257"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B186"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B187"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B292"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B293"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
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"POINTSANDLINES"
LINEASSIGN  "B268"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B269"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B192"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B193"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B288"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B289"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B272"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B273"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B198"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B199"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B284"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B285"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B276"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B277"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B204"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B205"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B206"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B280"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B281"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B209"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B210"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B266"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B267"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B213"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B214"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B215"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B262"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B263"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B310"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B311"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B220"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B221"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B258"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B259"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B306"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B307"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B226"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B227"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B270"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B271"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B302"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B303"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B232"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
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LINEASSIGN  "B233"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B274"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B275"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B298"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B299"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B238"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B239"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B278"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B279"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B294"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B295"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B244"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B245"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B282"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B283"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B290"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B291"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B250"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B251"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B252"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B286"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B287"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B255"  "PF"  SECTION "BOX400x200x12t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "D2"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D3"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D4"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D5"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D6"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D7"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D1"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D9"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D10"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D11"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D12"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D13"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D14"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D15"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D16"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D17"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D18"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D19"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "D20"  "PF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "B61"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "C47"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "B93"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "C48"  "1MF"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C19"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C20"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C21"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C22"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C23"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C24"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C25"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C26"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C27"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C28"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C29"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C30"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C31"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C32"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C33"  "1F"  SECTION "C40x80-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C34"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
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LINEASSIGN  "C35"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C36"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C37"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C38"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C39"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C40"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C41"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C42"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C43"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C44"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C45"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C46"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C49"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C47"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C48"  "1F"  SECTION "C80x40-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C61"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C62"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C63"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C64"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C66"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C8"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C69"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C68"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C70"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C4"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C57"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C67"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C13"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C14"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C15"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C16"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C17"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "C18"  "1F"  SECTION "C45X45-280"  RIGIDZONE 1 MINNUMSTA 3 MESH "POINTSANDLINES"
LINEASSIGN  "B326"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B327"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B328"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B329"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B241"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B330"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B52"  "1F"  SECTION "FB40x245-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B334"  "1F"  SECTION "TB30x60-280-NON"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B326"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B327"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B243"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B52"  "1MF"  SECTION "B40X60-280"  RIGIDZONE 1 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B194"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B319"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B355"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B324"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B318"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B362"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B323"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B236"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B369"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B328"  "1MF"  SECTION "BOX200x150x9t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B376"  "1MF"  SECTION "BOX200x150x9t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B340"  "1MF"  SECTION "BOX200x150x9t"  RELEASE "M2I M3I"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B382"  "1MF"  SECTION "BOX200x150x9t"  RELEASE "M2I M3I"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B329"  "1MF"  SECTION "BOX200x150x9t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B387"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
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LINEASSIGN  "B216"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B392"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B203"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B396"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B344"  "1MF"  SECTION "BOX200x150x4.5t"  RIGIDZONE 0.75 CARDINALPT 8  MAXSTASPC 50 MESH
"POINTSANDLINES"
LINEASSIGN  "B401"  "1MF"  SECTION "BOX200x150x4.5t"  RELEASE "PINNED"RIGIDZONE 0.75 CARDINALPT 8
MAXSTASPC 50 MESH "POINTSANDLINES"
LINEASSIGN  "B330"  "1MF"  SECTION "BOX200x150x4.5t"  CARDINALPT 8  MAXSTASPC 50 MESH "POINTSANDLINES"

$ AREA ASSIGNS
AREAASSIGN  "W1"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W2"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W3"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W4"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W5"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W20"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W7"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W8"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W9"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W10"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W11"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W12"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W13"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W14"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W15"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W16"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W17"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W18"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "W21"  "PF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  ADDRESTRAINT "Yes"  CARDINALPOINT
"MIDDLE"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F94"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F93"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F97"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F102"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F107"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F113"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F116"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F117"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F118"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F119"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F120"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F121"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F122"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F123"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F124"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F125"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F126"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
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AREAASSIGN  "F158"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F129"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F130"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F93"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F97"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F102"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F107"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F113"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F120"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F121"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F122"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F123"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F124"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F125"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F18"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F130"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F94"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F112"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F52"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F56"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F57"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F75"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F1"  "PF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F129"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F2"  "1MF"  SECTION "T15-280"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F111"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F131"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F132"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F133"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F134"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F135"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F136"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F137"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F138"  "1F"  SECTION "T40-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F139"  "1F"  SECTION "T15-280-NON"  OBJMESHTYPE "DEFAULT"  CARDINALPOINT "TOP"
TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F141"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F142"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F143"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F144"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F145"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F146"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F147"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F148"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F149"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F150"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F151"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F152"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F153"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F154"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F155"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F156"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
AREAASSIGN  "F157"  "1MF"  SECTION "T0"  CARDINALPOINT "TOP"  TRANSFORMSTIFFNESSFOROFFSETS "No"
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$ LOAD PATTERNS
  LOADPATTERN "DL"  TYPE  "Dead"  SELFWEIGHT  1
  LOADPATTERN "LL"  TYPE  "Reducible Live"  SELFWEIGHT  0
  LOADPATTERN "LL1"  TYPE  "Live"  SELFWEIGHT  0
  LOADPATTERN "EXP"  TYPE  "Seismic"  SELFWEIGHT  0
  LOADPATTERN "EXN"  TYPE  "Seismic"  SELFWEIGHT  0
  LOADPATTERN "EYP"  TYPE  "Seismic"  SELFWEIGHT  0
  LOADPATTERN "EYN"  TYPE  "Seismic"  SELFWEIGHT  0
  LOADPATTERN "LL2"  TYPE  "Reducible Live"  SELFWEIGHT  0
  LOADPATTERN "LL500"  TYPE  "Live"  SELFWEIGHT  0
  LOADPATTERN "F"  TYPE  "Other"  SELFWEIGHT  0
  LOADPATTERN "W1"  TYPE  "Wind"  SELFWEIGHT  0
  LOADPATTERN "W2"  TYPE  "Wind"  SELFWEIGHT  0
  SEISMIC "EYN"  "User Loads"
  SEISMIC "EYN"  USERLOAD   SET 1  "PF"  "D1"  FY 374400  XLOC 4921  YLOC 1484
  SEISMIC "EYN"  USERLOAD   SET 1  "1MF"  "D1"  FY 170230  XLOC 3845  YLOC 1365
  SEISMIC "EYP"  "User Loads"
  SEISMIC "EYP"  USERLOAD   SET 1  "PF"  "D1"  FY 374400  XLOC 5333  YLOC 1484
  SEISMIC "EYP"  USERLOAD   SET 1  "1MF"  "D1"  FY 170230  XLOC 4594  YLOC 1365
  SEISMIC "EXN"  "User Loads"
  SEISMIC "EXN"  USERLOAD   SET 1  "PF"  "D1"  FX 374400  XLOC 5127  YLOC 1363
  SEISMIC "EXN"  USERLOAD   SET 1  "1MF"  "D1"  FX 170230  XLOC 4219  YLOC 1213
  SEISMIC "EXP"  "User Loads"
  SEISMIC "EXP"  USERLOAD   SET 1  "PF"  "D1"  FX 374400  XLOC 5127  YLOC 1605
  SEISMIC "EXP"  USERLOAD   SET 1  "1MF"  "D1"  FX 170230  XLOC 4219  YLOC 1518

$ POINT OBJECT LOADS

$ FRAME OBJECT LOADS

$ SHELL OBJECT LOADS
  AREALOAD  "F93"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F93"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F97"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F97"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F102"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F102"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F107"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F107"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F113"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F113"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F120"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F120"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F121"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F121"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F122"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F122"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F123"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F123"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F124"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F124"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F125"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F125"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F18"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F18"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F130"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F130"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F94"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F94"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F112"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F112"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F52"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F52"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F56"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F56"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F57"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F57"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F75"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F75"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F1"  "PF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F1"  "PF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F129"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F129"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F2"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.01
  AREALOAD  "F2"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.0495
  AREALOAD  "F141"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F141"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F142"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F142"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F143"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F143"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F144"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F144"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F145"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F145"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F146"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F146"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
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  AREALOAD  "F147"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F147"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F148"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F148"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F149"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F149"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F150"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F150"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F150"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "W1"  FVAL 0.015
  AREALOAD  "F151"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F151"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F152"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F152"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F153"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F153"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F154"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F154"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F155"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F155"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F156"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F156"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006
  AREALOAD  "F157"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "DL"  FVAL 0.006
  AREALOAD  "F157"  "1MF"  TYPE "UNIFF"  DIR "GRAV"  LC "LL"  FVAL 0.006

$ ANALYSIS OPTIONS
  ACTIVEDOF "UX UY UZ RX RY RZ"
  MODELHINGESINLINKS "No"
  PDELTA  METHOD "ITERATIVE"  TOL 0.0001
  PDELTA  LOAD "DL"  FACTOR 1.245
  PDELTA  LOAD "LL"  FACTOR 0.5
  PDELTA  LOAD "LL1"  FACTOR 0.5
  PDELTA  LOAD "LL2"  FACTOR 0.5
  PDELTA  LOAD "LL500"  FACTOR 0.5
  AUTORECTMESH  LOCALIZEDFLOORMESHING  "Yes"  FLOORMESHMERGEJOINTS  "Yes"  FLOORMESHMAXSIZE  100
  WALLMESHMAXSIZE  125

$ MASS SOURCE
  MASSSOURCE  "MsSrc1"   INCLUDEELEMENTS "No"   INCLUDEADDEDMASS "No"   INCLUDELOADS "Yes"
  INCLUDEMOVE "No"   INCLUDELATERALMASS "Yes"   INCLUDEVERTICALMASS "No"   LUMPATSTORIES "Yes"
  ISDEFAULT "Yes"
  MASSSOURCELOAD  "MsSrc1"  "DL"  1
  MASSSOURCELOAD  "MsSrc1"  "LL1"  0.27
  MASSSOURCELOAD  "MsSrc1"  "LL2"  0.75

$ FUNCTIONS
  FUNCTION "SPX"  FUNCTYPE "SPECTRUM"  DAMPRATIO 0.05  FILE
  "D:\WORK\112\12188(台中市豐原區合作國民小學活動中心新建工程)\dat-3\MASS\SPX.txt"  HEADERLINES 1  DATATYPE
  "T&V"
  FUNCTION "SPY"  FUNCTYPE "SPECTRUM"  DAMPRATIO 0.05  FILE
  "D:\WORK\112\12188(台中市豐原區合作國民小學活動中心新建工程)\dat-3\MASS\SPY.txt"  HEADERLINES 1  DATATYPE
  "T&V"

$ GENERALIZED DISPLACEMENTS

$ LOAD CASES
  LOADCASE "Modal"  TYPE  "Modal - Eigen"  INITCOND  "PRESET"
  LOADCASE "Modal"  MAXMODES  54 MINMODES  1 EIGENSHIFTFREQ  0 EIGENCUTOFF  0 EIGENTOL  1E-09
  LOADCASE "DL"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "DL"  LOADPAT  "DL"  SF  1
  LOADCASE "LL"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "LL"  LOADPAT  "LL"  SF  1
  LOADCASE "LL1"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "LL1"  LOADPAT  "LL1"  SF  1
  LOADCASE "EXP"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "EXP"  LOADPAT  "EXP"  SF  1
  LOADCASE "EXN"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "EXN"  LOADPAT  "EXN"  SF  1
  LOADCASE "EYP"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "EYP"  LOADPAT  "EYP"  SF  1
  LOADCASE "EYN"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "EYN"  LOADPAT  "EYN"  SF  1
  LOADCASE "SPX"  TYPE  "Response Spectrum"  MODALCASE  "Modal"
  LOADCASE "SPX"  ACCEL  "U1"  FUNC  "SPX"  SF  514.31
  LOADCASE "SPX"  MODALDAMPTYPE  "Constant"  CONSTDAMP  0.05
  LOADCASE "SPY"  TYPE  "Response Spectrum"  MODALCASE  "Modal"
  LOADCASE "SPY"  ACCEL  "U1"  FUNC  "SPY"  SF  482.05 ANGLE  90
  LOADCASE "SPY"  MODALDAMPTYPE  "Constant"  CONSTDAMP  0.05
  LOADCASE "LL2"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "LL2"  LOADPAT  "LL2"  SF  1
  LOADCASE "LL500"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "LL500"  LOADPAT  "LL500"  SF  1
  LOADCASE "F"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "F"  LOADPAT  "F"  SF  1
  LOADCASE "EQV"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "EQV"  LOADPAT  "DL"  SF  0.2684
  LOADCASE "W1"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "W1"  LOADPAT  "W1"  SF  1
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  LOADCASE "W2"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "W2"  LOADPAT  "W2"  SF  1

$ AUTO CONSTRUCTION SEQUENCE CASE
  AUTOCONSTRUCTIONCASE NAME  "AutoSeq"  NUMBERSTORIES  1 USEINDESIGNCOMBOS  "Yes"
  AUTOCONSTRUCTIONCASE LOADPAT  "DL"  1

$ LOAD COMBINATIONS
  COMBO "COMB1"  TYPE "Linear Add"
  COMBO "COMB1"  DESIGN "Steel"  COMBOTYPE "Strength"  COMBOTYPE "Deflection"
  COMBO "COMB1"  LOADCASE "DL"  SF 1.4
  COMBO "COMB2"  TYPE "Linear Add"
  COMBO "COMB2"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB2"  LOADCASE "DL"  SF 1.2
  COMBO "COMB2"  LOADCASE "LL"  SF 1.6
  COMBO "COMB2"  LOADCASE "LL1"  SF 1.6
  COMBO "COMB2"  LOADCASE "LL2"  SF 1.6
  COMBO "COMB2"  LOADCASE "LL500"  SF 1.6
  COMBO "COMB3"  TYPE "Linear Add"
  COMBO "COMB3"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB3"  LOADCASE "DL"  SF 1.2
  COMBO "COMB3"  LOADCASE "LL"  SF 0.5
  COMBO "COMB3"  LOADCASE "LL1"  SF 1
  COMBO "COMB3"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB3"  LOADCASE "LL500"  SF 1
  COMBO "COMB3"  LOADCASE "EXP"  SF 1
  COMBO "COMB3"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB4"  TYPE "Linear Add"
  COMBO "COMB4"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB4"  LOADCASE "DL"  SF 1.2
  COMBO "COMB4"  LOADCASE "LL"  SF 0.5
  COMBO "COMB4"  LOADCASE "LL1"  SF 1
  COMBO "COMB4"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB4"  LOADCASE "LL500"  SF 1
  COMBO "COMB4"  LOADCASE "EXP"  SF 1
  COMBO "COMB4"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB5"  TYPE "Linear Add"
  COMBO "COMB5"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB5"  LOADCASE "DL"  SF 1.2
  COMBO "COMB5"  LOADCASE "LL"  SF 0.5
  COMBO "COMB5"  LOADCASE "LL1"  SF 1
  COMBO "COMB5"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB5"  LOADCASE "LL500"  SF 1
  COMBO "COMB5"  LOADCASE "EXP"  SF -1
  COMBO "COMB5"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB6"  TYPE "Linear Add"
  COMBO "COMB6"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB6"  LOADCASE "DL"  SF 1.2
  COMBO "COMB6"  LOADCASE "LL"  SF 0.5
  COMBO "COMB6"  LOADCASE "LL1"  SF 1
  COMBO "COMB6"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB6"  LOADCASE "LL500"  SF 1
  COMBO "COMB6"  LOADCASE "EXP"  SF -1
  COMBO "COMB6"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB7"  TYPE "Linear Add"
  COMBO "COMB7"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB7"  LOADCASE "DL"  SF 1.2
  COMBO "COMB7"  LOADCASE "LL"  SF 0.5
  COMBO "COMB7"  LOADCASE "LL1"  SF 1
  COMBO "COMB7"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB7"  LOADCASE "LL500"  SF 1
  COMBO "COMB7"  LOADCASE "EXN"  SF 1
  COMBO "COMB7"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB8"  TYPE "Linear Add"
  COMBO "COMB8"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB8"  LOADCASE "DL"  SF 1.2
  COMBO "COMB8"  LOADCASE "LL"  SF 0.5
  COMBO "COMB8"  LOADCASE "LL1"  SF 1
  COMBO "COMB8"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB8"  LOADCASE "LL500"  SF 1
  COMBO "COMB8"  LOADCASE "EXN"  SF 1
  COMBO "COMB8"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB9"  TYPE "Linear Add"
  COMBO "COMB9"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB9"  LOADCASE "DL"  SF 1.2
  COMBO "COMB9"  LOADCASE "LL"  SF 0.5
  COMBO "COMB9"  LOADCASE "LL1"  SF 1
  COMBO "COMB9"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB9"  LOADCASE "LL500"  SF 1
  COMBO "COMB9"  LOADCASE "EXN"  SF -1
  COMBO "COMB9"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB10"  TYPE "Linear Add"
  COMBO "COMB10"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB10"  LOADCASE "DL"  SF 1.2
  COMBO "COMB10"  LOADCASE "LL"  SF 0.5
  COMBO "COMB10"  LOADCASE "LL1"  SF 1
  COMBO "COMB10"  LOADCASE "LL2"  SF 0.5
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  COMBO "COMB10"  LOADCASE "LL500"  SF 1
  COMBO "COMB10"  LOADCASE "EXN"  SF -1
  COMBO "COMB10"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB11"  TYPE "Linear Add"
  COMBO "COMB11"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB11"  LOADCASE "DL"  SF 1.2
  COMBO "COMB11"  LOADCASE "LL"  SF 0.5
  COMBO "COMB11"  LOADCASE "LL1"  SF 1
  COMBO "COMB11"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB11"  LOADCASE "LL500"  SF 1
  COMBO "COMB11"  LOADCASE "EYP"  SF 1
  COMBO "COMB11"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB12"  TYPE "Linear Add"
  COMBO "COMB12"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB12"  LOADCASE "DL"  SF 1.2
  COMBO "COMB12"  LOADCASE "LL"  SF 0.5
  COMBO "COMB12"  LOADCASE "LL1"  SF 1
  COMBO "COMB12"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB12"  LOADCASE "LL500"  SF 1
  COMBO "COMB12"  LOADCASE "EYP"  SF 1
  COMBO "COMB12"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB13"  TYPE "Linear Add"
  COMBO "COMB13"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB13"  LOADCASE "DL"  SF 1.2
  COMBO "COMB13"  LOADCASE "LL"  SF 0.5
  COMBO "COMB13"  LOADCASE "LL1"  SF 1
  COMBO "COMB13"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB13"  LOADCASE "LL500"  SF 1
  COMBO "COMB13"  LOADCASE "EYP"  SF -1
  COMBO "COMB13"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB14"  TYPE "Linear Add"
  COMBO "COMB14"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB14"  LOADCASE "DL"  SF 1.2
  COMBO "COMB14"  LOADCASE "LL"  SF 0.5
  COMBO "COMB14"  LOADCASE "LL1"  SF 1
  COMBO "COMB14"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB14"  LOADCASE "LL500"  SF 1
  COMBO "COMB14"  LOADCASE "EYP"  SF -1
  COMBO "COMB14"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB15"  TYPE "Linear Add"
  COMBO "COMB15"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB15"  LOADCASE "DL"  SF 1.2
  COMBO "COMB15"  LOADCASE "LL"  SF 0.5
  COMBO "COMB15"  LOADCASE "LL1"  SF 1
  COMBO "COMB15"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB15"  LOADCASE "LL500"  SF 1
  COMBO "COMB15"  LOADCASE "EYN"  SF 1
  COMBO "COMB15"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB16"  TYPE "Linear Add"
  COMBO "COMB16"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB16"  LOADCASE "DL"  SF 1.2
  COMBO "COMB16"  LOADCASE "LL"  SF 0.5
  COMBO "COMB16"  LOADCASE "LL1"  SF 1
  COMBO "COMB16"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB16"  LOADCASE "LL500"  SF 1
  COMBO "COMB16"  LOADCASE "EYN"  SF 1
  COMBO "COMB16"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB17"  TYPE "Linear Add"
  COMBO "COMB17"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB17"  LOADCASE "DL"  SF 1.2
  COMBO "COMB17"  LOADCASE "LL"  SF 0.5
  COMBO "COMB17"  LOADCASE "LL1"  SF 1
  COMBO "COMB17"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB17"  LOADCASE "LL500"  SF 1
  COMBO "COMB17"  LOADCASE "EYN"  SF -1
  COMBO "COMB17"  LOADCASE "EQV"  SF 0.3
  COMBO "COMB18"  TYPE "Linear Add"
  COMBO "COMB18"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB18"  LOADCASE "DL"  SF 1.2
  COMBO "COMB18"  LOADCASE "LL"  SF 0.5
  COMBO "COMB18"  LOADCASE "LL1"  SF 1
  COMBO "COMB18"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB18"  LOADCASE "LL500"  SF 1
  COMBO "COMB18"  LOADCASE "EYN"  SF -1
  COMBO "COMB18"  LOADCASE "EQV"  SF -0.3
  COMBO "COMB19"  TYPE "Linear Add"
  COMBO "COMB19"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB19"  LOADCASE "DL"  SF 1.2
  COMBO "COMB19"  LOADCASE "LL"  SF 0.5
  COMBO "COMB19"  LOADCASE "LL1"  SF 1
  COMBO "COMB19"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB19"  LOADCASE "LL500"  SF 1
  COMBO "COMB19"  LOADCASE "EXP"  SF 0.3
  COMBO "COMB19"  LOADCASE "EQV"  SF 1
  COMBO "COMB20"  TYPE "Linear Add"
  COMBO "COMB20"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB20"  LOADCASE "DL"  SF 1.2
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```
  COMBO "COMB20"  LOADCASE "LL"  SF 0.5
  COMBO "COMB20"  LOADCASE "LL1"  SF 1
  COMBO "COMB20"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB20"  LOADCASE "LL500"  SF 1
  COMBO "COMB20"  LOADCASE "EXP"  SF 0.3
  COMBO "COMB20"  LOADCASE "EQV"  SF -1
  COMBO "COMB21"  TYPE "Linear Add"
  COMBO "COMB21"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB21"  LOADCASE "DL"  SF 1.2
  COMBO "COMB21"  LOADCASE "LL"  SF 0.5
  COMBO "COMB21"  LOADCASE "LL1"  SF 1
  COMBO "COMB21"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB21"  LOADCASE "LL500"  SF 1
  COMBO "COMB21"  LOADCASE "EXP"  SF -0.3
  COMBO "COMB21"  LOADCASE "EQV"  SF 1
  COMBO "COMB22"  TYPE "Linear Add"
  COMBO "COMB22"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB22"  LOADCASE "DL"  SF 1.2
  COMBO "COMB22"  LOADCASE "LL"  SF 0.5
  COMBO "COMB22"  LOADCASE "LL1"  SF 1
  COMBO "COMB22"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB22"  LOADCASE "LL500"  SF 1
  COMBO "COMB22"  LOADCASE "EXP"  SF -0.3
  COMBO "COMB22"  LOADCASE "EQV"  SF -1
  COMBO "COMB23"  TYPE "Linear Add"
  COMBO "COMB23"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB23"  LOADCASE "DL"  SF 1.2
  COMBO "COMB23"  LOADCASE "LL"  SF 0.5
  COMBO "COMB23"  LOADCASE "LL1"  SF 1
  COMBO "COMB23"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB23"  LOADCASE "LL500"  SF 1
  COMBO "COMB23"  LOADCASE "EXN"  SF 0.3
  COMBO "COMB23"  LOADCASE "EQV"  SF 1
  COMBO "COMB24"  TYPE "Linear Add"
  COMBO "COMB24"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB24"  LOADCASE "DL"  SF 1.2
  COMBO "COMB24"  LOADCASE "LL"  SF 0.5
  COMBO "COMB24"  LOADCASE "LL1"  SF 1
  COMBO "COMB24"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB24"  LOADCASE "LL500"  SF 1
  COMBO "COMB24"  LOADCASE "EXN"  SF 0.3
  COMBO "COMB24"  LOADCASE "EQV"  SF -1
  COMBO "COMB25"  TYPE "Linear Add"
  COMBO "COMB25"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB25"  LOADCASE "DL"  SF 1.2
  COMBO "COMB25"  LOADCASE "LL"  SF 0.5
  COMBO "COMB25"  LOADCASE "LL1"  SF 1
  COMBO "COMB25"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB25"  LOADCASE "LL500"  SF 1
  COMBO "COMB25"  LOADCASE "EXN"  SF -0.3
  COMBO "COMB25"  LOADCASE "EQV"  SF 1
  COMBO "COMB26"  TYPE "Linear Add"
  COMBO "COMB26"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB26"  LOADCASE "DL"  SF 1.2
  COMBO "COMB26"  LOADCASE "LL"  SF 0.5
  COMBO "COMB26"  LOADCASE "LL1"  SF 1
  COMBO "COMB26"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB26"  LOADCASE "LL500"  SF 1
  COMBO "COMB26"  LOADCASE "EXN"  SF -0.3
  COMBO "COMB26"  LOADCASE "EQV"  SF -1
  COMBO "COMB27"  TYPE "Linear Add"
  COMBO "COMB27"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB27"  LOADCASE "DL"  SF 1.2
  COMBO "COMB27"  LOADCASE "LL"  SF 0.5
  COMBO "COMB27"  LOADCASE "LL1"  SF 1
  COMBO "COMB27"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB27"  LOADCASE "LL500"  SF 1
  COMBO "COMB27"  LOADCASE "EYP"  SF 0.3
  COMBO "COMB27"  LOADCASE "EQV"  SF 1
  COMBO "COMB28"  TYPE "Linear Add"
  COMBO "COMB28"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB28"  LOADCASE "DL"  SF 1.2
  COMBO "COMB28"  LOADCASE "LL"  SF 0.5
  COMBO "COMB28"  LOADCASE "LL1"  SF 1
  COMBO "COMB28"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB28"  LOADCASE "LL500"  SF 1
  COMBO "COMB28"  LOADCASE "EYP"  SF 0.3
  COMBO "COMB28"  LOADCASE "EQV"  SF -1
  COMBO "COMB29"  TYPE "Linear Add"
  COMBO "COMB29"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "COMB29"  LOADCASE "DL"  SF 1.2
  COMBO "COMB29"  LOADCASE "LL"  SF 0.5
  COMBO "COMB29"  LOADCASE "LL1"  SF 1
  COMBO "COMB29"  LOADCASE "LL2"  SF 0.5
  COMBO "COMB29"  LOADCASE "LL500"  SF 1
  COMBO "COMB29"  LOADCASE "EYP"  SF -0.3
  COMBO "COMB29"  LOADCASE "EQV"  SF 1
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```
COMBO "COMB30"  TYPE "Linear Add"
COMBO "COMB30"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB30"  LOADCASE "DL"  SF 1.2
COMBO "COMB30"  LOADCASE "LL"  SF 0.5
COMBO "COMB30"  LOADCASE "LL1"  SF 1
COMBO "COMB30"  LOADCASE "LL2"  SF 0.5
COMBO "COMB30"  LOADCASE "LL500"  SF 1
COMBO "COMB30"  LOADCASE "EYP"  SF -0.3
COMBO "COMB30"  LOADCASE "EQV"  SF -1
COMBO "COMB31"  TYPE "Linear Add"
COMBO "COMB31"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB31"  LOADCASE "DL"  SF 1.2
COMBO "COMB31"  LOADCASE "LL"  SF 0.5
COMBO "COMB31"  LOADCASE "LL1"  SF 1
COMBO "COMB31"  LOADCASE "LL2"  SF 0.5
COMBO "COMB31"  LOADCASE "LL500"  SF 1
COMBO "COMB31"  LOADCASE "EYN"  SF 0.3
COMBO "COMB31"  LOADCASE "EQV"  SF 1
COMBO "COMB32"  TYPE "Linear Add"
COMBO "COMB32"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB32"  LOADCASE "DL"  SF 1.2
COMBO "COMB32"  LOADCASE "LL"  SF 0.5
COMBO "COMB32"  LOADCASE "LL1"  SF 1
COMBO "COMB32"  LOADCASE "LL2"  SF 0.5
COMBO "COMB32"  LOADCASE "LL500"  SF 1
COMBO "COMB32"  LOADCASE "EYN"  SF 0.3
COMBO "COMB32"  LOADCASE "EQV"  SF -1
COMBO "COMB33"  TYPE "Linear Add"
COMBO "COMB33"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB33"  LOADCASE "DL"  SF 1.2
COMBO "COMB33"  LOADCASE "LL"  SF 0.5
COMBO "COMB33"  LOADCASE "LL1"  SF 1
COMBO "COMB33"  LOADCASE "LL2"  SF 0.5
COMBO "COMB33"  LOADCASE "LL500"  SF 1
COMBO "COMB33"  LOADCASE "EYN"  SF -0.3
COMBO "COMB33"  LOADCASE "EQV"  SF 1
COMBO "COMB34"  TYPE "Linear Add"
COMBO "COMB34"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB34"  LOADCASE "DL"  SF 1.2
COMBO "COMB34"  LOADCASE "LL"  SF 0.5
COMBO "COMB34"  LOADCASE "LL1"  SF 1
COMBO "COMB34"  LOADCASE "LL2"  SF 0.5
COMBO "COMB34"  LOADCASE "LL500"  SF 1
COMBO "COMB34"  LOADCASE "EYN"  SF -0.3
COMBO "COMB34"  LOADCASE "EQV"  SF -1
COMBO "COMB35"  TYPE "Linear Add"
COMBO "COMB35"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB35"  LOADCASE "DL"  SF 1.2
COMBO "COMB35"  LOADCASE "LL"  SF 0.5
COMBO "COMB35"  LOADCASE "LL1"  SF 1
COMBO "COMB35"  LOADCASE "LL2"  SF 0.5
COMBO "COMB35"  LOADCASE "LL500"  SF 1
COMBO "COMB35"  LOADCASE "SPX"  SF 1
COMBO "COMB35"  LOADCASE "EQV"  SF 0.3
COMBO "COMB36"  TYPE "Linear Add"
COMBO "COMB36"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB36"  LOADCASE "DL"  SF 1.2
COMBO "COMB36"  LOADCASE "LL"  SF 0.5
COMBO "COMB36"  LOADCASE "LL1"  SF 1
COMBO "COMB36"  LOADCASE "LL2"  SF 0.5
COMBO "COMB36"  LOADCASE "LL500"  SF 1
COMBO "COMB36"  LOADCASE "SPX"  SF 1
COMBO "COMB36"  LOADCASE "EQV"  SF -0.3
COMBO "COMB37"  TYPE "Linear Add"
COMBO "COMB37"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB37"  LOADCASE "DL"  SF 1.2
COMBO "COMB37"  LOADCASE "LL"  SF 0.5
COMBO "COMB37"  LOADCASE "LL1"  SF 1
COMBO "COMB37"  LOADCASE "LL2"  SF 0.5
COMBO "COMB37"  LOADCASE "LL500"  SF 1
COMBO "COMB37"  LOADCASE "SPX"  SF 0.3
COMBO "COMB37"  LOADCASE "EQV"  SF 1
COMBO "COMB38"  TYPE "Linear Add"
COMBO "COMB38"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB38"  LOADCASE "DL"  SF 1.2
COMBO "COMB38"  LOADCASE "LL"  SF 0.5
COMBO "COMB38"  LOADCASE "LL1"  SF 1
COMBO "COMB38"  LOADCASE "LL2"  SF 0.5
COMBO "COMB38"  LOADCASE "LL500"  SF 1
COMBO "COMB38"  LOADCASE "SPX"  SF 0.3
COMBO "COMB38"  LOADCASE "EQV"  SF -1
COMBO "COMB39"  TYPE "Linear Add"
COMBO "COMB39"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB39"  LOADCASE "DL"  SF 1.2
COMBO "COMB39"  LOADCASE "LL"  SF 0.5
COMBO "COMB39"  LOADCASE "LL1"  SF 1
COMBO "COMB39"  LOADCASE "LL2"  SF 0.5
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COMBO "COMB39"  LOADCASE "LL500"  SF 1
COMBO "COMB39"  LOADCASE "SPY"  SF 1
COMBO "COMB39"  LOADCASE "EQV"  SF 0.3
COMBO "COMB40"  TYPE "Linear Add"
COMBO "COMB40"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB40"  LOADCASE "DL"  SF 1.2
COMBO "COMB40"  LOADCASE "LL"  SF 0.5
COMBO "COMB40"  LOADCASE "LL1"  SF 1
COMBO "COMB40"  LOADCASE "LL2"  SF 0.5
COMBO "COMB40"  LOADCASE "LL500"  SF 1
COMBO "COMB40"  LOADCASE "SPY"  SF 1
COMBO "COMB40"  LOADCASE "EQV"  SF -0.3
COMBO "COMB41"  TYPE "Linear Add"
COMBO "COMB41"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB41"  LOADCASE "DL"  SF 1.2
COMBO "COMB41"  LOADCASE "LL"  SF 0.5
COMBO "COMB41"  LOADCASE "LL1"  SF 1
COMBO "COMB41"  LOADCASE "LL2"  SF 0.5
COMBO "COMB41"  LOADCASE "LL500"  SF 1
COMBO "COMB41"  LOADCASE "SPY"  SF 0.3
COMBO "COMB41"  LOADCASE "EQV"  SF 1
COMBO "COMB42"  TYPE "Linear Add"
COMBO "COMB42"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB42"  LOADCASE "DL"  SF 1.2
COMBO "COMB42"  LOADCASE "LL"  SF 0.5
COMBO "COMB42"  LOADCASE "LL1"  SF 1
COMBO "COMB42"  LOADCASE "LL2"  SF 0.5
COMBO "COMB42"  LOADCASE "LL500"  SF 1
COMBO "COMB42"  LOADCASE "SPY"  SF 0.3
COMBO "COMB42"  LOADCASE "EQV"  SF -1
COMBO "COMB43"  TYPE "Linear Add"
COMBO "COMB43"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB43"  LOADCASE "DL"  SF 0.9
COMBO "COMB43"  LOADCASE "EXP"  SF 1
COMBO "COMB43"  LOADCASE "EQV"  SF 0.3
COMBO "COMB44"  TYPE "Linear Add"
COMBO "COMB44"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB44"  LOADCASE "DL"  SF 0.9
COMBO "COMB44"  LOADCASE "EXP"  SF 1
COMBO "COMB44"  LOADCASE "EQV"  SF -0.3
COMBO "COMB45"  TYPE "Linear Add"
COMBO "COMB45"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB45"  LOADCASE "DL"  SF 0.9
COMBO "COMB45"  LOADCASE "EXP"  SF -1
COMBO "COMB45"  LOADCASE "EQV"  SF 0.3
COMBO "COMB46"  TYPE "Linear Add"
COMBO "COMB46"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB46"  LOADCASE "DL"  SF 0.9
COMBO "COMB46"  LOADCASE "EXP"  SF -1
COMBO "COMB46"  LOADCASE "EQV"  SF -0.3
COMBO "COMB47"  TYPE "Linear Add"
COMBO "COMB47"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB47"  LOADCASE "DL"  SF 0.9
COMBO "COMB47"  LOADCASE "EXN"  SF 1
COMBO "COMB47"  LOADCASE "EQV"  SF 0.3
COMBO "COMB48"  TYPE "Linear Add"
COMBO "COMB48"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB48"  LOADCASE "DL"  SF 0.9
COMBO "COMB48"  LOADCASE "EXN"  SF 1
COMBO "COMB48"  LOADCASE "EQV"  SF -0.3
COMBO "COMB49"  TYPE "Linear Add"
COMBO "COMB49"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB49"  LOADCASE "DL"  SF 0.9
COMBO "COMB49"  LOADCASE "EXN"  SF -1
COMBO "COMB49"  LOADCASE "EQV"  SF 0.3
COMBO "COMB50"  TYPE "Linear Add"
COMBO "COMB50"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB50"  LOADCASE "DL"  SF 0.9
COMBO "COMB50"  LOADCASE "EXN"  SF -1
COMBO "COMB50"  LOADCASE "EQV"  SF -0.3
COMBO "COMB51"  TYPE "Linear Add"
COMBO "COMB51"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB51"  LOADCASE "DL"  SF 0.9
COMBO "COMB51"  LOADCASE "EYP"  SF 1
COMBO "COMB51"  LOADCASE "EQV"  SF 0.3
COMBO "COMB52"  TYPE "Linear Add"
COMBO "COMB52"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB52"  LOADCASE "DL"  SF 0.9
COMBO "COMB52"  LOADCASE "EYP"  SF 1
COMBO "COMB52"  LOADCASE "EQV"  SF -0.3
COMBO "COMB53"  TYPE "Linear Add"
COMBO "COMB53"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB53"  LOADCASE "DL"  SF 0.9
COMBO "COMB53"  LOADCASE "EYP"  SF -1
COMBO "COMB53"  LOADCASE "EQV"  SF 0.3
COMBO "COMB54"  TYPE "Linear Add"
COMBO "COMB54"  DESIGN "Steel"  COMBOTYPE "Strength"
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COMBO "COMB54"  LOADCASE "DL"  SF 0.9
COMBO "COMB54"  LOADCASE "EYP"  SF -1
COMBO "COMB54"  LOADCASE "EQV"  SF -0.3
COMBO "COMB55"  TYPE "Linear Add"
COMBO "COMB55"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB55"  LOADCASE "DL"  SF 0.9
COMBO "COMB55"  LOADCASE "EYN"  SF 1
COMBO "COMB55"  LOADCASE "EQV"  SF 0.3
COMBO "COMB56"  TYPE "Linear Add"
COMBO "COMB56"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB56"  LOADCASE "DL"  SF 0.9
COMBO "COMB56"  LOADCASE "EYN"  SF 1
COMBO "COMB56"  LOADCASE "EQV"  SF -0.3
COMBO "COMB57"  TYPE "Linear Add"
COMBO "COMB57"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB57"  LOADCASE "DL"  SF 0.9
COMBO "COMB57"  LOADCASE "EYN"  SF -1
COMBO "COMB57"  LOADCASE "EQV"  SF 0.3
COMBO "COMB58"  TYPE "Linear Add"
COMBO "COMB58"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB58"  LOADCASE "DL"  SF 0.9
COMBO "COMB58"  LOADCASE "EYN"  SF -1
COMBO "COMB58"  LOADCASE "EQV"  SF -0.3
COMBO "COMB59"  TYPE "Linear Add"
COMBO "COMB59"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB59"  LOADCASE "DL"  SF 0.9
COMBO "COMB59"  LOADCASE "EXP"  SF 0.3
COMBO "COMB59"  LOADCASE "EQV"  SF 1
COMBO "COMB60"  TYPE "Linear Add"
COMBO "COMB60"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB60"  LOADCASE "DL"  SF 0.9
COMBO "COMB60"  LOADCASE "EXP"  SF 0.3
COMBO "COMB60"  LOADCASE "EQV"  SF -1
COMBO "COMB61"  TYPE "Linear Add"
COMBO "COMB61"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB61"  LOADCASE "DL"  SF 0.9
COMBO "COMB61"  LOADCASE "EXP"  SF -0.3
COMBO "COMB61"  LOADCASE "EQV"  SF 1
COMBO "COMB62"  TYPE "Linear Add"
COMBO "COMB62"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB62"  LOADCASE "DL"  SF 0.9
COMBO "COMB62"  LOADCASE "EXP"  SF -0.3
COMBO "COMB62"  LOADCASE "EQV"  SF -1
COMBO "COMB63"  TYPE "Linear Add"
COMBO "COMB63"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB63"  LOADCASE "DL"  SF 0.9
COMBO "COMB63"  LOADCASE "EXN"  SF 0.3
COMBO "COMB63"  LOADCASE "EQV"  SF 1
COMBO "COMB64"  TYPE "Linear Add"
COMBO "COMB64"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB64"  LOADCASE "DL"  SF 0.9
COMBO "COMB64"  LOADCASE "EXN"  SF 0.3
COMBO "COMB64"  LOADCASE "EQV"  SF -1
COMBO "COMB65"  TYPE "Linear Add"
COMBO "COMB65"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB65"  LOADCASE "DL"  SF 0.9
COMBO "COMB65"  LOADCASE "EXN"  SF -0.3
COMBO "COMB65"  LOADCASE "EQV"  SF 1
COMBO "COMB66"  TYPE "Linear Add"
COMBO "COMB66"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB66"  LOADCASE "DL"  SF 0.9
COMBO "COMB66"  LOADCASE "EXN"  SF -0.3
COMBO "COMB66"  LOADCASE "EQV"  SF -1
COMBO "COMB67"  TYPE "Linear Add"
COMBO "COMB67"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB67"  LOADCASE "DL"  SF 0.9
COMBO "COMB67"  LOADCASE "EYP"  SF 0.3
COMBO "COMB67"  LOADCASE "EQV"  SF 1
COMBO "COMB68"  TYPE "Linear Add"
COMBO "COMB68"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB68"  LOADCASE "DL"  SF 0.9
COMBO "COMB68"  LOADCASE "EYP"  SF 0.3
COMBO "COMB68"  LOADCASE "EQV"  SF -1
COMBO "COMB69"  TYPE "Linear Add"
COMBO "COMB69"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB69"  LOADCASE "DL"  SF 0.9
COMBO "COMB69"  LOADCASE "EYP"  SF -0.3
COMBO "COMB69"  LOADCASE "EQV"  SF 1
COMBO "COMB70"  TYPE "Linear Add"
COMBO "COMB70"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB70"  LOADCASE "DL"  SF 0.9
COMBO "COMB70"  LOADCASE "EYP"  SF -0.3
COMBO "COMB70"  LOADCASE "EQV"  SF -1
COMBO "COMB71"  TYPE "Linear Add"
COMBO "COMB71"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB71"  LOADCASE "DL"  SF 0.9
COMBO "COMB71"  LOADCASE "EYN"  SF 0.3
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COMBO "COMB71"  LOADCASE "EQV"  SF 1
COMBO "COMB72"  TYPE "Linear Add"
COMBO "COMB72"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB72"  LOADCASE "DL"  SF 0.9
COMBO "COMB72"  LOADCASE "EYN"  SF 0.3
COMBO "COMB72"  LOADCASE "EQV"  SF -1
COMBO "COMB73"  TYPE "Linear Add"
COMBO "COMB73"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB73"  LOADCASE "DL"  SF 0.9
COMBO "COMB73"  LOADCASE "EYN"  SF -0.3
COMBO "COMB73"  LOADCASE "EQV"  SF 1
COMBO "COMB74"  TYPE "Linear Add"
COMBO "COMB74"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB74"  LOADCASE "DL"  SF 0.9
COMBO "COMB74"  LOADCASE "EYN"  SF -0.3
COMBO "COMB74"  LOADCASE "EQV"  SF -1
COMBO "COMB75"  TYPE "Linear Add"
COMBO "COMB75"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB75"  LOADCASE "DL"  SF 0.9
COMBO "COMB75"  LOADCASE "SPX"  SF 1
COMBO "COMB75"  LOADCASE "EQV"  SF 0.3
COMBO "COMB76"  TYPE "Linear Add"
COMBO "COMB76"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB76"  LOADCASE "DL"  SF 0.9
COMBO "COMB76"  LOADCASE "SPX"  SF 1
COMBO "COMB76"  LOADCASE "EQV"  SF -0.3
COMBO "COMB77"  TYPE "Linear Add"
COMBO "COMB77"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB77"  LOADCASE "DL"  SF 0.9
COMBO "COMB77"  LOADCASE "SPX"  SF 0.3
COMBO "COMB77"  LOADCASE "EQV"  SF 1
COMBO "COMB78"  TYPE "Linear Add"
COMBO "COMB78"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB78"  LOADCASE "DL"  SF 0.9
COMBO "COMB78"  LOADCASE "SPX"  SF 0.3
COMBO "COMB78"  LOADCASE "EQV"  SF -1
COMBO "COMB79"  TYPE "Linear Add"
COMBO "COMB79"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB79"  LOADCASE "DL"  SF 0.9
COMBO "COMB79"  LOADCASE "SPY"  SF 1
COMBO "COMB79"  LOADCASE "EQV"  SF 0.3
COMBO "COMB80"  TYPE "Linear Add"
COMBO "COMB80"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB80"  LOADCASE "DL"  SF 0.9
COMBO "COMB80"  LOADCASE "SPY"  SF 1
COMBO "COMB80"  LOADCASE "EQV"  SF -0.3
COMBO "COMB81"  TYPE "Linear Add"
COMBO "COMB81"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB81"  LOADCASE "DL"  SF 0.9
COMBO "COMB81"  LOADCASE "SPY"  SF 0.3
COMBO "COMB81"  LOADCASE "EQV"  SF 1
COMBO "COMB82"  TYPE "Linear Add"
COMBO "COMB82"  DESIGN "Steel"  COMBOTYPE "Strength"
COMBO "COMB82"  LOADCASE "DL"  SF 0.9
COMBO "COMB82"  LOADCASE "SPY"  SF 0.3
COMBO "COMB82"  LOADCASE "EQV"  SF -1
COMBO "COMB101"  TYPE "Linear Add"
COMBO "COMB101"  LOADCASE "AutoSeq"  SF 1.4
COMBO "COMB102"  TYPE "Linear Add"
COMBO "COMB102"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB102"  LOADCASE "LL"  SF 1.6
COMBO "COMB102"  LOADCASE "LL1"  SF 1.6
COMBO "COMB102"  LOADCASE "LL2"  SF 1.6
COMBO "COMB102"  LOADCASE "LL500"  SF 1.6
COMBO "COMB103"  TYPE "Linear Add"
COMBO "COMB103"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB103"  LOADCASE "LL"  SF 0.5
COMBO "COMB103"  LOADCASE "LL1"  SF 1
COMBO "COMB103"  LOADCASE "LL2"  SF 0.5
COMBO "COMB103"  LOADCASE "LL500"  SF 1
COMBO "COMB103"  LOADCASE "EXP"  SF 1
COMBO "COMB103"  LOADCASE "EQV"  SF 0.3
COMBO "COMB104"  TYPE "Linear Add"
COMBO "COMB104"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB104"  LOADCASE "LL"  SF 0.5
COMBO "COMB104"  LOADCASE "LL1"  SF 1
COMBO "COMB104"  LOADCASE "LL2"  SF 0.5
COMBO "COMB104"  LOADCASE "LL500"  SF 1
COMBO "COMB104"  LOADCASE "EXP"  SF 1
COMBO "COMB104"  LOADCASE "EQV"  SF -0.3
COMBO "COMB105"  TYPE "Linear Add"
COMBO "COMB105"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB105"  LOADCASE "LL"  SF 0.5
COMBO "COMB105"  LOADCASE "LL1"  SF 1
COMBO "COMB105"  LOADCASE "LL2"  SF 0.5
COMBO "COMB105"  LOADCASE "LL500"  SF 1
COMBO "COMB105"  LOADCASE "EXP"  SF -1
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```
COMBO "COMB105"  LOADCASE "EQV"  SF 0.3
COMBO "COMB106"  TYPE "Linear Add"
COMBO "COMB106"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB106"  LOADCASE "LL"  SF 0.5
COMBO "COMB106"  LOADCASE "LL1"  SF 1
COMBO "COMB106"  LOADCASE "LL2"  SF 0.5
COMBO "COMB106"  LOADCASE "LL500"  SF 1
COMBO "COMB106"  LOADCASE "EXP"  SF -1
COMBO "COMB106"  LOADCASE "EQV"  SF -0.3
COMBO "COMB107"  TYPE "Linear Add"
COMBO "COMB107"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB107"  LOADCASE "LL"  SF 0.5
COMBO "COMB107"  LOADCASE "LL1"  SF 1
COMBO "COMB107"  LOADCASE "LL2"  SF 0.5
COMBO "COMB107"  LOADCASE "LL500"  SF 1
COMBO "COMB107"  LOADCASE "EXN"  SF 1
COMBO "COMB107"  LOADCASE "EQV"  SF 0.3
COMBO "COMB108"  TYPE "Linear Add"
COMBO "COMB108"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB108"  LOADCASE "LL"  SF 0.5
COMBO "COMB108"  LOADCASE "LL1"  SF 1
COMBO "COMB108"  LOADCASE "LL2"  SF 0.5
COMBO "COMB108"  LOADCASE "LL500"  SF 1
COMBO "COMB108"  LOADCASE "EXN"  SF 1
COMBO "COMB108"  LOADCASE "EQV"  SF -0.3
COMBO "COMB109"  TYPE "Linear Add"
COMBO "COMB109"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB109"  LOADCASE "LL"  SF 0.5
COMBO "COMB109"  LOADCASE "LL1"  SF 1
COMBO "COMB109"  LOADCASE "LL2"  SF 0.5
COMBO "COMB109"  LOADCASE "LL500"  SF 1
COMBO "COMB109"  LOADCASE "EXN"  SF -1
COMBO "COMB109"  LOADCASE "EQV"  SF 0.3
COMBO "COMB110"  TYPE "Linear Add"
COMBO "COMB110"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB110"  LOADCASE "LL"  SF 0.5
COMBO "COMB110"  LOADCASE "LL1"  SF 1
COMBO "COMB110"  LOADCASE "LL2"  SF 0.5
COMBO "COMB110"  LOADCASE "LL500"  SF 1
COMBO "COMB110"  LOADCASE "EXN"  SF -1
COMBO "COMB110"  LOADCASE "EQV"  SF -0.3
COMBO "COMB111"  TYPE "Linear Add"
COMBO "COMB111"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB111"  LOADCASE "LL"  SF 0.5
COMBO "COMB111"  LOADCASE "LL1"  SF 1
COMBO "COMB111"  LOADCASE "LL2"  SF 0.5
COMBO "COMB111"  LOADCASE "LL500"  SF 1
COMBO "COMB111"  LOADCASE "EYP"  SF 1
COMBO "COMB111"  LOADCASE "EQV"  SF 0.3
COMBO "COMB112"  TYPE "Linear Add"
COMBO "COMB112"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB112"  LOADCASE "LL"  SF 0.5
COMBO "COMB112"  LOADCASE "LL1"  SF 1
COMBO "COMB112"  LOADCASE "LL2"  SF 0.5
COMBO "COMB112"  LOADCASE "LL500"  SF 1
COMBO "COMB112"  LOADCASE "EYP"  SF 1
COMBO "COMB112"  LOADCASE "EQV"  SF -0.3
COMBO "COMB113"  TYPE "Linear Add"
COMBO "COMB113"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB113"  LOADCASE "LL"  SF 0.5
COMBO "COMB113"  LOADCASE "LL1"  SF 1
COMBO "COMB113"  LOADCASE "LL2"  SF 0.5
COMBO "COMB113"  LOADCASE "LL500"  SF 1
COMBO "COMB113"  LOADCASE "EYP"  SF -1
COMBO "COMB113"  LOADCASE "EQV"  SF 0.3
COMBO "COMB114"  TYPE "Linear Add"
COMBO "COMB114"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB114"  LOADCASE "LL"  SF 0.5
COMBO "COMB114"  LOADCASE "LL1"  SF 1
COMBO "COMB114"  LOADCASE "LL2"  SF 0.5
COMBO "COMB114"  LOADCASE "LL500"  SF 1
COMBO "COMB114"  LOADCASE "EYP"  SF -1
COMBO "COMB114"  LOADCASE "EQV"  SF -0.3
COMBO "COMB115"  TYPE "Linear Add"
COMBO "COMB115"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB115"  LOADCASE "LL"  SF 0.5
COMBO "COMB115"  LOADCASE "LL1"  SF 1
COMBO "COMB115"  LOADCASE "LL2"  SF 0.5
COMBO "COMB115"  LOADCASE "LL500"  SF 1
COMBO "COMB115"  LOADCASE "EYN"  SF 1
COMBO "COMB115"  LOADCASE "EQV"  SF 0.3
COMBO "COMB116"  TYPE "Linear Add"
COMBO "COMB116"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB116"  LOADCASE "LL"  SF 0.5
COMBO "COMB116"  LOADCASE "LL1"  SF 1
COMBO "COMB116"  LOADCASE "LL2"  SF 0.5
COMBO "COMB116"  LOADCASE "LL500"  SF 1
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COMBO "COMB116"  LOADCASE "EYN"  SF 1
COMBO "COMB116"  LOADCASE "EQV"  SF -0.3
COMBO "COMB117"  TYPE "Linear Add"
COMBO "COMB117"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB117"  LOADCASE "LL"  SF 0.5
COMBO "COMB117"  LOADCASE "LL1"  SF 1
COMBO "COMB117"  LOADCASE "LL2"  SF 0.5
COMBO "COMB117"  LOADCASE "LL500"  SF 1
COMBO "COMB117"  LOADCASE "EYN"  SF -1
COMBO "COMB117"  LOADCASE "EQV"  SF 0.3
COMBO "COMB118"  TYPE "Linear Add"
COMBO "COMB118"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB118"  LOADCASE "LL"  SF 0.5
COMBO "COMB118"  LOADCASE "LL1"  SF 1
COMBO "COMB118"  LOADCASE "LL2"  SF 0.5
COMBO "COMB118"  LOADCASE "LL500"  SF 1
COMBO "COMB118"  LOADCASE "EYN"  SF -1
COMBO "COMB118"  LOADCASE "EQV"  SF -0.3
COMBO "COMB119"  TYPE "Linear Add"
COMBO "COMB119"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB119"  LOADCASE "LL"  SF 0.5
COMBO "COMB119"  LOADCASE "LL1"  SF 1
COMBO "COMB119"  LOADCASE "LL2"  SF 0.5
COMBO "COMB119"  LOADCASE "LL500"  SF 1
COMBO "COMB119"  LOADCASE "EXP"  SF 0.3
COMBO "COMB119"  LOADCASE "EQV"  SF 1
COMBO "COMB120"  TYPE "Linear Add"
COMBO "COMB120"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB120"  LOADCASE "LL"  SF 0.5
COMBO "COMB120"  LOADCASE "LL1"  SF 1
COMBO "COMB120"  LOADCASE "LL2"  SF 0.5
COMBO "COMB120"  LOADCASE "LL500"  SF 1
COMBO "COMB120"  LOADCASE "EXP"  SF 0.3
COMBO "COMB120"  LOADCASE "EQV"  SF -1
COMBO "COMB121"  TYPE "Linear Add"
COMBO "COMB121"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB121"  LOADCASE "LL"  SF 0.5
COMBO "COMB121"  LOADCASE "LL1"  SF 1
COMBO "COMB121"  LOADCASE "LL2"  SF 0.5
COMBO "COMB121"  LOADCASE "LL500"  SF 1
COMBO "COMB121"  LOADCASE "EXP"  SF -0.3
COMBO "COMB121"  LOADCASE "EQV"  SF 1
COMBO "COMB122"  TYPE "Linear Add"
COMBO "COMB122"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB122"  LOADCASE "LL"  SF 0.5
COMBO "COMB122"  LOADCASE "LL1"  SF 1
COMBO "COMB122"  LOADCASE "LL2"  SF 0.5
COMBO "COMB122"  LOADCASE "LL500"  SF 1
COMBO "COMB122"  LOADCASE "EXP"  SF -0.3
COMBO "COMB122"  LOADCASE "EQV"  SF -1
COMBO "COMB123"  TYPE "Linear Add"
COMBO "COMB123"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB123"  LOADCASE "LL"  SF 0.5
COMBO "COMB123"  LOADCASE "LL1"  SF 1
COMBO "COMB123"  LOADCASE "LL2"  SF 0.5
COMBO "COMB123"  LOADCASE "LL500"  SF 1
COMBO "COMB123"  LOADCASE "EXN"  SF 0.3
COMBO "COMB123"  LOADCASE "EQV"  SF 1
COMBO "COMB124"  TYPE "Linear Add"
COMBO "COMB124"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB124"  LOADCASE "LL"  SF 0.5
COMBO "COMB124"  LOADCASE "LL1"  SF 1
COMBO "COMB124"  LOADCASE "LL2"  SF 0.5
COMBO "COMB124"  LOADCASE "LL500"  SF 1
COMBO "COMB124"  LOADCASE "EXN"  SF 0.3
COMBO "COMB124"  LOADCASE "EQV"  SF -1
COMBO "COMB125"  TYPE "Linear Add"
COMBO "COMB125"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB125"  LOADCASE "LL"  SF 0.5
COMBO "COMB125"  LOADCASE "LL1"  SF 1
COMBO "COMB125"  LOADCASE "LL2"  SF 0.5
COMBO "COMB125"  LOADCASE "LL500"  SF 1
COMBO "COMB125"  LOADCASE "EXN"  SF -0.3
COMBO "COMB125"  LOADCASE "EQV"  SF 1
COMBO "COMB126"  TYPE "Linear Add"
COMBO "COMB126"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB126"  LOADCASE "LL"  SF 0.5
COMBO "COMB126"  LOADCASE "LL1"  SF 1
COMBO "COMB126"  LOADCASE "LL2"  SF 0.5
COMBO "COMB126"  LOADCASE "LL500"  SF 1
COMBO "COMB126"  LOADCASE "EXN"  SF -0.3
COMBO "COMB126"  LOADCASE "EQV"  SF -1
COMBO "COMB127"  TYPE "Linear Add"
COMBO "COMB127"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB127"  LOADCASE "LL"  SF 0.5
COMBO "COMB127"  LOADCASE "LL1"  SF 1
COMBO "COMB127"  LOADCASE "LL2"  SF 0.5
```



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COMBO "COMB127"  LOADCASE "LL500"  SF 1
COMBO "COMB127"  LOADCASE "EYP"  SF 0.3
COMBO "COMB127"  LOADCASE "EQV"  SF 1
COMBO "COMB128"  TYPE "Linear Add"
COMBO "COMB128"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB128"  LOADCASE "LL"  SF 0.5
COMBO "COMB128"  LOADCASE "LL1"  SF 1
COMBO "COMB128"  LOADCASE "LL2"  SF 0.5
COMBO "COMB128"  LOADCASE "LL500"  SF 1
COMBO "COMB128"  LOADCASE "EYP"  SF 0.3
COMBO "COMB128"  LOADCASE "EQV"  SF -1
COMBO "COMB129"  TYPE "Linear Add"
COMBO "COMB129"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB129"  LOADCASE "LL"  SF 0.5
COMBO "COMB129"  LOADCASE "LL1"  SF 1
COMBO "COMB129"  LOADCASE "LL2"  SF 0.5
COMBO "COMB129"  LOADCASE "LL500"  SF 1
COMBO "COMB129"  LOADCASE "EYP"  SF -0.3
COMBO "COMB129"  LOADCASE "EQV"  SF 1
COMBO "COMB130"  TYPE "Linear Add"
COMBO "COMB130"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB130"  LOADCASE "LL"  SF 0.5
COMBO "COMB130"  LOADCASE "LL1"  SF 1
COMBO "COMB130"  LOADCASE "LL2"  SF 0.5
COMBO "COMB130"  LOADCASE "LL500"  SF 1
COMBO "COMB130"  LOADCASE "EYP"  SF -0.3
COMBO "COMB130"  LOADCASE "EQV"  SF -1
COMBO "COMB131"  TYPE "Linear Add"
COMBO "COMB131"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB131"  LOADCASE "LL"  SF 0.5
COMBO "COMB131"  LOADCASE "LL1"  SF 1
COMBO "COMB131"  LOADCASE "LL2"  SF 0.5
COMBO "COMB131"  LOADCASE "LL500"  SF 1
COMBO "COMB131"  LOADCASE "EYN"  SF 0.3
COMBO "COMB131"  LOADCASE "EQV"  SF 1
COMBO "COMB132"  TYPE "Linear Add"
COMBO "COMB132"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB132"  LOADCASE "LL"  SF 0.5
COMBO "COMB132"  LOADCASE "LL1"  SF 1
COMBO "COMB132"  LOADCASE "LL2"  SF 0.5
COMBO "COMB132"  LOADCASE "LL500"  SF 1
COMBO "COMB132"  LOADCASE "EYN"  SF 0.3
COMBO "COMB132"  LOADCASE "EQV"  SF -1
COMBO "COMB133"  TYPE "Linear Add"
COMBO "COMB133"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB133"  LOADCASE "LL"  SF 0.5
COMBO "COMB133"  LOADCASE "LL1"  SF 1
COMBO "COMB133"  LOADCASE "LL2"  SF 0.5
COMBO "COMB133"  LOADCASE "LL500"  SF 1
COMBO "COMB133"  LOADCASE "EYN"  SF -0.3
COMBO "COMB133"  LOADCASE "EQV"  SF 1
COMBO "COMB134"  TYPE "Linear Add"
COMBO "COMB134"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB134"  LOADCASE "LL"  SF 0.5
COMBO "COMB134"  LOADCASE "LL1"  SF 1
COMBO "COMB134"  LOADCASE "LL2"  SF 0.5
COMBO "COMB134"  LOADCASE "LL500"  SF 1
COMBO "COMB134"  LOADCASE "EYN"  SF -0.3
COMBO "COMB134"  LOADCASE "EQV"  SF -1
COMBO "COMB135"  TYPE "Linear Add"
COMBO "COMB135"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB135"  LOADCASE "LL"  SF 0.5
COMBO "COMB135"  LOADCASE "LL1"  SF 1
COMBO "COMB135"  LOADCASE "LL2"  SF 0.5
COMBO "COMB135"  LOADCASE "LL500"  SF 1
COMBO "COMB135"  LOADCASE "SPX"  SF 1
COMBO "COMB135"  LOADCASE "EQV"  SF 0.3
COMBO "COMB136"  TYPE "Linear Add"
COMBO "COMB136"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB136"  LOADCASE "LL"  SF 0.5
COMBO "COMB136"  LOADCASE "LL1"  SF 1
COMBO "COMB136"  LOADCASE "LL2"  SF 0.5
COMBO "COMB136"  LOADCASE "LL500"  SF 1
COMBO "COMB136"  LOADCASE "SPX"  SF 1
COMBO "COMB136"  LOADCASE "EQV"  SF -0.3
COMBO "COMB137"  TYPE "Linear Add"
COMBO "COMB137"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB137"  LOADCASE "LL"  SF 0.5
COMBO "COMB137"  LOADCASE "LL1"  SF 1
COMBO "COMB137"  LOADCASE "LL2"  SF 0.5
COMBO "COMB137"  LOADCASE "LL500"  SF 1
COMBO "COMB137"  LOADCASE "SPX"  SF 0.3
COMBO "COMB137"  LOADCASE "EQV"  SF 1
COMBO "COMB138"  TYPE "Linear Add"
COMBO "COMB138"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB138"  LOADCASE "LL"  SF 0.5
COMBO "COMB138"  LOADCASE "LL1"  SF 1
```



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COMBO "COMB138"  LOADCASE "LL2"  SF 0.5
COMBO "COMB138"  LOADCASE "LL500"  SF 1
COMBO "COMB138"  LOADCASE "SPX"  SF 0.3
COMBO "COMB138"  LOADCASE "EQV"  SF -1
COMBO "COMB139"  TYPE "Linear Add"
COMBO "COMB139"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB139"  LOADCASE "LL"  SF 0.5
COMBO "COMB139"  LOADCASE "LL1"  SF 1
COMBO "COMB139"  LOADCASE "LL2"  SF 0.5
COMBO "COMB139"  LOADCASE "LL500"  SF 1
COMBO "COMB139"  LOADCASE "SPY"  SF 1
COMBO "COMB139"  LOADCASE "EQV"  SF 0.3
COMBO "COMB140"  TYPE "Linear Add"
COMBO "COMB140"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB140"  LOADCASE "LL"  SF 0.5
COMBO "COMB140"  LOADCASE "LL1"  SF 1
COMBO "COMB140"  LOADCASE "LL2"  SF 0.5
COMBO "COMB140"  LOADCASE "LL500"  SF 1
COMBO "COMB140"  LOADCASE "SPY"  SF 1
COMBO "COMB140"  LOADCASE "EQV"  SF -0.3
COMBO "COMB141"  TYPE "Linear Add"
COMBO "COMB141"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB141"  LOADCASE "LL"  SF 0.5
COMBO "COMB141"  LOADCASE "LL1"  SF 1
COMBO "COMB141"  LOADCASE "LL2"  SF 0.5
COMBO "COMB141"  LOADCASE "LL500"  SF 1
COMBO "COMB141"  LOADCASE "SPY"  SF 0.3
COMBO "COMB141"  LOADCASE "EQV"  SF 1
COMBO "COMB142"  TYPE "Linear Add"
COMBO "COMB142"  LOADCASE "AutoSeq"  SF 1.2
COMBO "COMB142"  LOADCASE "LL"  SF 0.5
COMBO "COMB142"  LOADCASE "LL1"  SF 1
COMBO "COMB142"  LOADCASE "LL2"  SF 0.5
COMBO "COMB142"  LOADCASE "LL500"  SF 1
COMBO "COMB142"  LOADCASE "SPY"  SF 0.3
COMBO "COMB142"  LOADCASE "EQV"  SF -1
COMBO "COMB143"  TYPE "Linear Add"
COMBO "COMB143"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB143"  LOADCASE "EXP"  SF 1
COMBO "COMB143"  LOADCASE "EQV"  SF 0.3
COMBO "COMB144"  TYPE "Linear Add"
COMBO "COMB144"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB144"  LOADCASE "EXP"  SF 1
COMBO "COMB144"  LOADCASE "EQV"  SF -0.3
COMBO "COMB145"  TYPE "Linear Add"
COMBO "COMB145"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB145"  LOADCASE "EXP"  SF -1
COMBO "COMB145"  LOADCASE "EQV"  SF 0.3
COMBO "COMB146"  TYPE "Linear Add"
COMBO "COMB146"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB146"  LOADCASE "EXP"  SF -1
COMBO "COMB146"  LOADCASE "EQV"  SF -0.3
COMBO "COMB147"  TYPE "Linear Add"
COMBO "COMB147"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB147"  LOADCASE "EXN"  SF 1
COMBO "COMB147"  LOADCASE "EQV"  SF 0.3
COMBO "COMB148"  TYPE "Linear Add"
COMBO "COMB148"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB148"  LOADCASE "EXN"  SF 1
COMBO "COMB148"  LOADCASE "EQV"  SF -0.3
COMBO "COMB149"  TYPE "Linear Add"
COMBO "COMB149"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB149"  LOADCASE "EXN"  SF -1
COMBO "COMB149"  LOADCASE "EQV"  SF 0.3
COMBO "COMB150"  TYPE "Linear Add"
COMBO "COMB150"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB150"  LOADCASE "EXN"  SF -1
COMBO "COMB150"  LOADCASE "EQV"  SF -0.3
COMBO "COMB151"  TYPE "Linear Add"
COMBO "COMB151"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB151"  LOADCASE "EYP"  SF 1
COMBO "COMB151"  LOADCASE "EQV"  SF 0.3
COMBO "COMB152"  TYPE "Linear Add"
COMBO "COMB152"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB152"  LOADCASE "EYP"  SF 1
COMBO "COMB152"  LOADCASE "EQV"  SF -0.3
COMBO "COMB153"  TYPE "Linear Add"
COMBO "COMB153"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB153"  LOADCASE "EYP"  SF -1
COMBO "COMB153"  LOADCASE "EQV"  SF 0.3
COMBO "COMB154"  TYPE "Linear Add"
COMBO "COMB154"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB154"  LOADCASE "EYP"  SF -1
COMBO "COMB154"  LOADCASE "EQV"  SF -0.3
COMBO "COMB155"  TYPE "Linear Add"
COMBO "COMB155"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB155"  LOADCASE "EYN"  SF 1
```

```
COMBO "COMB155"  LOADCASE "EQY"  SF 0.3
COMBO "COMB156"  TYPE "Linear Add"
COMBO "COMB156"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB156"  LOADCASE "EYN"  SF 1
COMBO "COMB156"  LOADCASE "EQY"  SF -0.3
COMBO "COMB157"  TYPE "Linear Add"
COMBO "COMB157"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB157"  LOADCASE "EYN"  SF -1
COMBO "COMB157"  LOADCASE "EQY"  SF 0.3
COMBO "COMB158"  TYPE "Linear Add"
COMBO "COMB158"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB158"  LOADCASE "EYN"  SF -1
COMBO "COMB158"  LOADCASE "EQY"  SF -0.3
COMBO "COMB159"  TYPE "Linear Add"
COMBO "COMB159"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB159"  LOADCASE "EXP"  SF 0.3
COMBO "COMB159"  LOADCASE "EQY"  SF 1
COMBO "COMB160"  TYPE "Linear Add"
COMBO "COMB160"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB160"  LOADCASE "EXP"  SF 0.3
COMBO "COMB160"  LOADCASE "EQY"  SF -1
COMBO "COMB161"  TYPE "Linear Add"
COMBO "COMB161"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB161"  LOADCASE "EXP"  SF -0.3
COMBO "COMB161"  LOADCASE "EQY"  SF 1
COMBO "COMB162"  TYPE "Linear Add"
COMBO "COMB162"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB162"  LOADCASE "EXP"  SF -0.3
COMBO "COMB162"  LOADCASE "EQY"  SF -1
COMBO "COMB163"  TYPE "Linear Add"
COMBO "COMB163"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB163"  LOADCASE "EXN"  SF 0.3
COMBO "COMB163"  LOADCASE "EQY"  SF 1
COMBO "COMB164"  TYPE "Linear Add"
COMBO "COMB164"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB164"  LOADCASE "EXN"  SF 0.3
COMBO "COMB164"  LOADCASE "EQY"  SF -1
COMBO "COMB165"  TYPE "Linear Add"
COMBO "COMB165"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB165"  LOADCASE "EXN"  SF -0.3
COMBO "COMB165"  LOADCASE "EQY"  SF 1
COMBO "COMB166"  TYPE "Linear Add"
COMBO "COMB166"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB166"  LOADCASE "EXN"  SF -0.3
COMBO "COMB166"  LOADCASE "EQY"  SF -1
COMBO "COMB167"  TYPE "Linear Add"
COMBO "COMB167"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB167"  LOADCASE "EYP"  SF 0.3
COMBO "COMB167"  LOADCASE "EQY"  SF 1
COMBO "COMB168"  TYPE "Linear Add"
COMBO "COMB168"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB168"  LOADCASE "EYP"  SF 0.3
COMBO "COMB168"  LOADCASE "EQY"  SF -1
COMBO "COMB169"  TYPE "Linear Add"
COMBO "COMB169"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB169"  LOADCASE "EYP"  SF -0.3
COMBO "COMB169"  LOADCASE "EQY"  SF 1
COMBO "COMB170"  TYPE "Linear Add"
COMBO "COMB170"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB170"  LOADCASE "EYP"  SF -0.3
COMBO "COMB170"  LOADCASE "EQY"  SF -1
COMBO "COMB171"  TYPE "Linear Add"
COMBO "COMB171"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB171"  LOADCASE "EYN"  SF 0.3
COMBO "COMB171"  LOADCASE "EQY"  SF 1
COMBO "COMB172"  TYPE "Linear Add"
COMBO "COMB172"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB172"  LOADCASE "EYN"  SF 0.3
COMBO "COMB172"  LOADCASE "EQY"  SF -1
COMBO "COMB173"  TYPE "Linear Add"
COMBO "COMB173"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB173"  LOADCASE "EYN"  SF -0.3
COMBO "COMB173"  LOADCASE "EQY"  SF 1
COMBO "COMB174"  TYPE "Linear Add"
COMBO "COMB174"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB174"  LOADCASE "EYN"  SF -0.3
COMBO "COMB174"  LOADCASE "EQY"  SF -1
COMBO "COMB175"  TYPE "Linear Add"
COMBO "COMB175"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB175"  LOADCASE "SPX"  SF 1
COMBO "COMB175"  LOADCASE "EQY"  SF 0.3
COMBO "COMB176"  TYPE "Linear Add"
COMBO "COMB176"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB176"  LOADCASE "SPX"  SF 1
COMBO "COMB176"  LOADCASE "EQY"  SF -0.3
COMBO "COMB177"  TYPE "Linear Add"
COMBO "COMB177"  LOADCASE "AutoSeq"  SF 0.9
```





```
COMBO "COMB177"  LOADCASE "SPX"  SF 0.3
COMBO "COMB177"  LOADCASE "EQY"  SF 1
COMBO "COMB178"  TYPE "Linear Add"
COMBO "COMB178"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB178"  LOADCASE "SPX"  SF 0.3
COMBO "COMB178"  LOADCASE "EQY"  SF -1
COMBO "COMB179"  TYPE "Linear Add"
COMBO "COMB179"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB179"  LOADCASE "SPY"  SF 1
COMBO "COMB179"  LOADCASE "EQY"  SF 0.3
COMBO "COMB180"  TYPE "Linear Add"
COMBO "COMB180"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB180"  LOADCASE "SPY"  SF 1
COMBO "COMB180"  LOADCASE "EQY"  SF -0.3
COMBO "COMB181"  TYPE "Linear Add"
COMBO "COMB181"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB181"  LOADCASE "SPY"  SF 0.3
COMBO "COMB181"  LOADCASE "EQY"  SF 1
COMBO "COMB182"  TYPE "Linear Add"
COMBO "COMB182"  LOADCASE "AutoSeq"  SF 0.9
COMBO "COMB182"  LOADCASE "SPY"  SF 0.3
COMBO "COMB182"  LOADCASE "EQY"  SF -1

$ STEEL DESIGN PREFERENCES
  STEELPREFERENCE  CODE "AISC LRFD 93"  THDESIGN "EVERYSTEP"  FRAMETYPE "MOMENT FRAME"
  STEELPREFERENCE  PHIBLRFD 0.9 PHICLRFD 0.85 PHITLRFD 0.9 PHIVLRFD 0.9 PHICANGLELRFD 0.9
  STEELPREFERENCE  CONSIDERDEFLECTION "YES"  RELATIVEDEFLECTION "BOTH"
  STEELPREFERENCE  DLDEFLECTIONLIMIT 120 SLDEFLECTIONLIMIT 120 LLDEFLECTIONLIMIT 360 TLDEFLECTIONLIMIT 240
  TLMCDEFLECTIONLIMIT 240
  STEELPREFERENCE  DLDEFLECTIONLIMITABS 2.54 SLDEFLECTIONLIMITABS 2.54 LLDEFLECTIONLIMITABS 2.54
  TLDEFLECTIONLIMITABS 2.54 TLMCDEFLECTIONLIMITABS 2.54
  STEELPREFERENCE  CALCULATECAMBER "NO"  PERCENTCAMBERMDL 1 CAMBERRELMAXLIMIT 180 CAMBERIGNORELIMIT 1.905
  STEELPREFERENCE  CAMBERABSMAXLIMIT 10.16 CAMBERINTERVAL 0.635 CAMBERROUNDDOWN "YES"
  STEELPREFERENCE  PATTERNLLF 0.75 MAXITERATION 1 SRLIMIT 1

$ CONCRETE DESIGN PREFERENCES
  CONCRETEPREFERENCE  CODE "ACI 318-08"THDESIGN "EVERYSTEP"    CONSIDERMINECCENTRICITY "YES"
  CONCRETEPREFERENCE  NUMINTERCURVES 24  NUMINTERPOINTS 11  PATTERNLLF 0.75  UFLIMIT 0.95
  CONCRETEPREFERENCE  SDC "D"    RHO 1.3  SDS 1  PHITENSIONCTRL 0.9  PHICOMPRESSIONCTRLTIED 0.65
  PHICOMPRESSIONCTRLSPIRAL 0.7  PHISHEARTORSION 0.75  PHISHEARSEISMIC 0.6  PHISHEARJOINT 0.85

$ COMPOSITE DESIGN PREFERENCES
  COMPOSITEPREFERENCE  CODE "AISC 360-05"
  COMPOSITEPREFERENCE  PHI-B 0.9  PHI-BCNE 0.9  PHI-BCNP 0.9  PHI-BCPE 0.9  PHI-BCPP 0.85  PHI-V 0.9
  COMPOSITEPREFERENCE  SHORED "NO"  %MIDDLERANGE 70  PATTERNLLF 0.75  SRLIMIT 1  SINGLESEGMENT "NO"
  STUDINCREASEFACTOR 1  MINNUMEXTRASTUDS 0
  COMPOSITEPREFERENCE  DLLIMIT 0  SLLIMIT 240  LLLIMIT 360  TLLIMIT 240  CREEPFACTOR 1
  COMPOSITEPREFERENCE  %DLCAMBER 100  CAMBERIGNORE 1.905  CAMBERABSMAX 10.16  CAMBERRELMAX 180
  CAMBERINTERVAL 0.635  CAMBERROUNDDOWN "YES"
  COMPOSITEPREFERENCE  %VIBLL 25  CONSIDERFREQ "NO"  MINFREQ 8  CONSIDERDAMP "NO"  %INHERENTDAMP 4
  COMPOSITEPREFERENCE  VIBRATIONCRITERION "WALKING"  OCCUPANCYCATEGORY "PAPEROFFICE"  DAMPINGRATIO 0.025
  WALKINGACCELERATIONLIMIT 0.005
  COMPOSITEPREFERENCE  RHYTHMICACTIVITY "AEROBICS"  AFFECTEDDOCCUPANCYCATEGORY "PAPEROFFICE"
  COMPOSITEPREFERENCE  RHYTHMICACCELERATIONLIMIT 0.005  UPPERSTEPFREQUENCY 2.75  LOWERSTEPFREQUENCY 2
  COMPOSITEPREFERENCE  EQUIPMENTORUSECATEGORY "COMPUTERSYSTEM"  VIBVELOCITYLIMIT 0.02032
  COMPOSITEPREFERENCE  FOOTFALLIMPULSEFOFAST 5  FOOTFALLIMPULSEFOMODERATE 2.5  FOOTFALLIMPULSEFOSLOW 1.2
  COMPOSITEPREFERENCE  FOOTFALLIMPULSEFMFAST 142.8816  FOOTFALLIMPULSEFMMODERATE 127.0059
  FOOTFALLIMPULSEFMSLOW 108.8622
  COMPOSITEPREFERENCE  OPTIMIZEPRICE "NO"  CONNECTORPRICE 0  CAMBERPRICE 0

$ WALL DESIGN PREFERENCES
  WALLPREFERENCE  CODE "ACI 318-08"  THDESIGN "EVERYSTEP"
  WALLPREFERENCE  REBARMATERIAL "A615Gr60"  REBARSHEARMATERIAL "A615Gr60"
  WALLPREFERENCE  RHO 1.3  SDS 1  I 1  CD 5.5  PHI-TCTRL 0.9  PHI-CCTRL 0.65  PHI-SHEAR 0.75  PHI-SHEARSEIS
  0.6  PMAXFACTOR 0.8
  WALLPREFERENCE  NUMCURVES 24  NUMPOINTS 11
  WALLPREFERENCE  PTMAX 0.06  PCMAX 0.04  IPMAX 0.02  IPMIN 0.0025
  WALLPREFERENCE  UFLIMIT 0.95

$ CONCRETE SLAB DESIGN PREFERENCES
  CONCRETESLABPREFERENCE  CODE "ACI 318-14"  PHITENACI 0.9  PHICOMPACI 0.65  PHISHEARACI 0.75
  CONCRETESLABPREFERENCE  COVERTOP 1.5  COVERBOT 1.5  BARSIZE "#8"  INNERLAYER "B"    PTCGSTOP 2.5
  PTCGSBOTEXT 4  PTCGSBOTINT 2.5  SLABTYPE "Two Way"
  CONCRETESLABPREFERENCE  USERSTRESS "NO"  INITCONCRAT 0.8  LLFRACTION 0.5

$ DIMENSION LINES
  DIMLINE DEFAULTSYSTEM G1

  END
$ END OF MODEL FILE
```

# 附件五

****** 靜力分析求層間側向相對位移之地震力 ******

```
基本振動週期                Tx =  0.362 sec   Ty =  0.378 sec
工址設計水平譜加速度係數 SaDx =  0.800     SaDy =  0.800
結構系統地震力折減係數    Fux =  2.319      Fuy =  2.374

X方向地震力 Vx' = I * Fu / 4.2 * (SaD/Fu)m * W
              = 1.0 * 2.319 /4.2 * 0.323 * W = 0.1786 *   881.71
              =    157.44 t
Y方向地震力 Vy' = I * Fu / 4.2 * (SaD/Fu)m * W
              = 1.0 * 2.374 /4.2 * 0.319 * W = 0.1804 *   881.71
              =    159.08 t

    Sx = Vx'/Vx =   157.44 /   358.84 =  0.439
    Sy = Vy'/Vy =   159.08 /   358.84 =  0.443
```

註：用途係數大於1.0者，亦可以I=1.0所得之地震力計算位移
T值不受經驗公式週期值1.4倍限制，SaD亦不受不得低於0.4SDS限制

***** 靜力分析地震力側向變位及層間變位角 ****

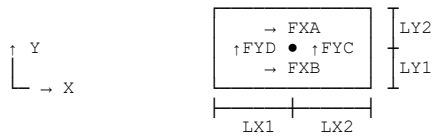
| | | NO:12 | | | | | NO:10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STORY | Hi(M) | dXP | ΔdXP | ΔdXP/Hi | ΔdXP/Hi*Sx | | dXN | ΔdXN | ΔdXN/Hi | ΔdXN/Hi*Sx |
| PF | 5.80 | 1.57 | 0.22 | 0.374 | 0.164 | | 1.54 | 0.23 | 0.405 | 0.178 |
| 1MF | 4.00 | 1.36 | 1.36 | 3.392 | 1.488 | | 1.30 | 1.30 | 3.257 | 1.429 |
| 1F | | 0.00 | | | | | | 0.00 | | |

X 向 最大層間變位角 = 1.488 /1000 < 5 /1000 OK
X 向 最大變位 Δx = 1.57 cm
X 向 碰撞距離 =(0.6*1.4*αy*Ra)*Δx =(0.6*1.4*1.0*3.00)* 1.57 = 3.97 CM

| | | NO:12 | | | | | NO:16 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STORY | Hi(M) | dYP | ΔdYP | ΔdYP/Hi | ΔdYP/Hi*Sy | | dYN | ΔdYN | ΔdYN/Hi | ΔdYN/Hi*Sy |
| PF | 5.80 | 1.77 | 0.20 | 0.345 | 0.153 | | 1.88 | 0.22 | 0.382 | 0.169 |
| 1MF | 4.00 | 1.57 | 1.57 | 3.932 | 1.743 | | 1.65 | 1.65 | 4.136 | 1.834 |
| 1F | | 0.00 | | | | | | 0.00 | | |

Y 向 最大層間變位角 = 1.834 /1000 < 5 /1000 OK
Y 向 最大變位 Δy = 1.88 cm
Y 向 碰撞距離 =(0.6*1.4*αy*Ra)*Δy =(0.6*1.4*1.0*3.00)* 1.88 = 4.73 CM

*** 樓層平面尺度與質心座標 ***




| STORY | XM | YM | 5%DX | 5%DY | LX1 | LX2 | LY1 | LY2 |
|---|---|---|---|---|---|---|---|---|
| PF | 51.27 | 14.84 | 2.06 | 1.21 | 20.60 | 20.61 | 12.05 | 12.17 |
| 1MF | 22.72 | 14.56 | 2.27 | 1.45 | 22.93 | 22.40 | 14.79 | 14.24 |
| 1F | 47.21 | 14.11 | 3.74 | 1.53 | 47.47 | 27.42 | 14.33 | 16.19 |

*** 計算扭矩放大係數 AXP ***

AXP = (δmax / 1.2δavg)^2

| STORY | δxm | θxm | δx1 | δx2 | δavg | AXP | AXP_USE |
|---|---|---|---|---|---|---|---|
| PF | 0.01517 | -0.00012 | 0.01396 | 0.01677 | 0.01537 | 0.82719 | 1.00000 |
| 1MF | 0.01358 | -0.00008 | 0.01239 | 0.01472 | 0.01355 | 0.81853 | 1.00000 |

*** 計算扭矩放大係數 AXN ***

AXN = (δmax / 1.2δavg)^2

| STORY | δxm | θxm | δx1 | δx2 | δavg | AXN | AXN_USE |
|---|---|---|---|---|---|---|---|
| PF | 0.01524 | 0.00005 | 0.01580 | 0.01449 | 0.01515 | 0.75568 | 1.00000 |
| 1MF | 0.01376 | 0.00006 | 0.01473 | 0.01284 | 0.01378 | 0.79278 | 1.00000 |

*** 計算扭矩放大係數 AYP ***

AYP = (δmax / 1.2δavg)^2

| STORY | δym | θym | δy1 | δy2 | δavg | AYP | AYP_USE |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PF | 0.01733 | 0.00011 | 0.01816 | 0.02270 | 0.02043 | 0.85706 | 1.00000 |
| 1MF | 0.01340 | 0.00009 | 0.01128 | 0.01536 | 0.01332 | 0.92336 | 1.00000 |

*** 計算扭矩放大係數 AYN ***

AYN = (δmax / 1.2δavg)^2

| STORY | δym | θym | δy1 | δy2 | δavg | AYN | AYN_USE |
|---|---|---|---|---|---|---|---|
| PF | 0.01743 | -0.00016 | 0.01619 | 0.00943 | 0.01281 | 1.10914 | 1.10914 |
| 1MF | 0.01339 | -0.00014 | 0.01656 | 0.01044 | 0.01350 | 1.04492 | 1.04492 |

*** 調整層剪力及層剪力之作用點 ***
X 向

| STORY | FXP | FYP | XP | YP | FXN | FYN | XN | YN |
|---|---|---|---|---|---|---|---|---|
| PF | 141.94 | 0.00 | 51.27 | 16.05 | 141.94 | 0.00 | 51.27 | 13.63 |
| 1MF | 216.90 | 0.00 | 22.72 | 16.01 | 216.90 | 0.00 | 22.72 | 13.11 |
| 1F | 0.00 | 0.00 | 47.21 | 15.63 | 0.00 | 0.00 | 47.21 | 12.58 |

*** 調整層剪力及層剪力之作用點 ***
Y 向

| STORY | FXP | FYP | XP | YP | FXN | FYN | XN | YN |
|---|---|---|---|---|---|---|---|---|
| PF | 0.00 | 141.94 | 53.33 | 14.84 | 0.00 | 141.94 | 48.99 | 14.84 |
| 1MF | 0.00 | 216.90 | 24.99 | 14.56 | 0.00 | 216.90 | 20.36 | 14.56 |
| 1F | 0.00 | 0.00 | 50.96 | 14.11 | 0.00 | 0.00 | 43.47 | 14.11 |

# 附件六

Format = simple_T2

```
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
|  -17-1 |B1       ( 40x 60)       |B1|B2       ( 40x 60)       |B2|B3       ( 40x 60)       |B4|B5       ( 40x 60)       |B5|B6       ( 40x 60)       |B6|
|   1MF |B4       L=  490       50|50       L=  575       50|50       L=  575       50|50       L=  575       50|50       L=  490       84|
|       |B4                     50|50                     50|50                     50|50                     50|52                     84|
|   mat |     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|
|   Ast |    16.4     4.6    15.3|    12.9     1.6    10.4|    12.3     1.5    11.6|    11.6     1.5    12.2|    10.6     1.6    12.9|    15.1     3.9    14.6|
|   Asb |    12.8     5.8    10.8|     5.3     3.7     6.7|     5.8     3.5     6.2|     6.0     3.4     5.9|     6.7     3.6     5.5|    10.2     5.6    12.2|
|    Av |   0.071   0.055   0.073|   0.035   0.033   0.033|   0.034   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.035|   0.062   0.044   0.054|
|   Avt |   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|
|  Al/4 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |
|   Top |     5#7     3#7     5#7|     4#7     3#7     3#7|     4#7     3#7     3#7|     4#7     3#7     4#7|     3#7     3#7     4#7|     4#7     3#7     4#7|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|   Bot |     4#7     3#7     4#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     4#7     3#7     4#7|
|   Str |  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|
|   Web |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
|   13-1 |B7       ( 40x 60)       |B13|B8       ( 40x 60)       |B14|B9       ( 40x 60)       |B15|B10      ( 40x 60)       |B16|B11      ( 40x 60)       |B17|B12      ( 40x 60)       |B18|
|   1MF |B2       L=  480       50|50       L=  575       50|50       L=  575       50|50       L=  575       50|50       L=  575       51|51       L=  480       82|
|       |B2                     50|50                     50|50                     50|50                     50|50                     51|51                     82|
|   mat |     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|
|   Ast |    17.1     5.0    16.2|    13.1     1.4    11.3|    12.8     1.4    12.4|    12.4     1.4    12.6|    11.4     1.4    13.1|    16.2     4.5    15.8|
|   Asb |    14.2     6.3    11.5|     5.3     4.0     6.5|     5.9     3.7     6.1|     6.0     3.7     6.0|     6.5     3.9     5.4|    11.0     6.1    13.7|
|    Av |   0.057   0.058   0.076|   0.038   0.033   0.033|   0.036   0.033   0.035|   0.036   0.033   0.036|   0.033   0.033   0.038|   0.078   0.061   0.056|
|   Avt |   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|
|  Al/4 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |
|   Top |     5#7     3#7     5#7|     4#7     3#7     3#7|     4#7     3#7     4#7|     4#7     3#7     4#7|     3#7     3#7     4#7|     5#7     3#7     5#7|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|   Bot |     4#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     4#7|
|   Str |  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|
|   Web |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
|  -10-1 |B13      ( 40x 60)       |B19|B14      ( 40x 60)       |B37|B15      ( 40x 60)       |B38|B16      ( 40x 60)       |B39|B17      ( 40x 60)       |B40|B18      ( 40x 60)       |B41|
|   1MF |0       L=  673       0|0       L=  579       0|0       L=  576       0|0       L=  576       0|0       L=  579       0|0       L=  637       0|
|       |55                    55|55                                    55|55                    55|55                    55|55                    55|
|   mat |     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|
|   Ast |    12.4     1.0     9.7|    10.3     1.1     8.7|     9.8     0.8     9.3|     9.4     0.8     9.5|     8.8     1.1    10.2|     9.7     1.2     9.6|
|   Asb |     4.3     4.0     4.0|     3.6     3.0     4.5|     4.1     3.1     4.3|     4.2     3.1     4.1|     4.4     2.9     3.8|     3.6     4.3     4.7|
|    Av |   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|
|   Avt |   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|
|  Al/4 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |
|   Top |     4#7     3#7     4#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|   Bot |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|
|   Web |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
|   21-1 |B19      ( 40x 60)       |B30|B20      ( 40x 60)       |B34|B21      ( 40x 60)       |B32|B22      ( 40x 60)       |B33|B23      ( 40x 60)       |B34|B24      ( 40x 60)       |B35|
|   1MF |0       L=  638       0|0       L=  587       0|0       L=  575       0|0       L=  575       0|0       L=  587       0|0       L=  649       0|
|       |64                    41|41                    40|40                    40|40                    41|41                    43|43                    64|
|   mat |     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|     280    4200    4200|
|   Ast |    13.5     3.0     8.7|     7.7     0.2     7.6|     8.4     0.3     8.0|     8.1     0.2     8.2|     7.6     0.2     8.2|     9.0     1.7    10.3|
|   Asb |     5.0     4.4     3.5|     2.5     3.0     2.8|     2.7     2.9     2.6|     2.6     3.0     2.8|     2.7     2.8     2.4|     2.6     4.7     4.8|
|    Av |   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|   0.033   0.033   0.033|
|   Avt |   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|   0.131   0.131   0.131|
|  Al/4 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |                  1.94 |
|   Top |     4#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|       |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|   Bot |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|  #4812  #4818  #4812|
|   Web |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|  -67-1 |G1       ( 40x 60)       B1|
|   1MF |54       L=  498       54|
|       |54                     54|
|   mat |     280    4200    4200|
|   Ast |    15.5     3.8    15.4|
|   Asb |    10.7     4.7    10.2|
|    Av |   0.056   0.036   0.058|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     5#7     3#7     5#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|   YY-2 |G2       ( 40x 60)       B11|
|   1MF |50       L=  770       50|
|       |50                     50|
|   mat |     280    4200    4200|
|   Ast |    15.8     1.0    15.4|
|   Asb |     5.4     5.7     5.5|
|    Av |   0.041   0.033   0.040|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     5#7     3#7     5#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|   68-1 |G3       ( 40x 60)       B12|
|   1MF |54       L=  531       54|
|       |54                     54|
|   mat |     280    4200    4200|
|   Ast |    15.6     2.0    15.0|
|   Asb |    10.3     3.5    10.0|
|    Av |   0.050   0.033   0.050|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     5#7     3#7     5#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|   56-3 |G4       ( 40x 60)       B7|
|   1MF |60       L=  287       60|
|       |60                     60|
|   mat |     280    4200    4200|
|   Ast |    15.8     5.0    19.1|
|   Asb |    13.2     1.7    12.0|
|    Av |   0.155   0.165   0.177|
```



```
|    Avt |   0.162   0.173   0.186|
|  Al/4 |                  1.94 |
|   Top |     5#7     5#7     5#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     4#7     4#7     4#7|
|   Str |  #4812  #4812  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|  YY-13 |G5       ( 50x 80)       B8|
|   1MF |50       L= 1191       50|
|       |50                     50|
|   mat |     280    4200    4200|
|   Ast |    25.9     0.0    25.4|
|   Asb |    10.4    14.8    10.0|
|    Av |   0.045   0.042   0.044|
|   Avt |   0.153   0.153   0.153|
|  Al/4 |                  3.04 |
|   Top |     7#7     4#7     7#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     4#7     5#7     4#7|
|   Str |  #4812  #4815  #4812|
|   Web |           2x 3#4     |
+--------+-------------------------+
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|  -61-2 |G6       ( 40x 60)       B9|
|   1MF |57       L=  332       57|
|       |57                     57|
|   mat |     280    4200    4200|
|   Ast |    15.9     6.8    19.4|
|   Asb |    13.8     4.0    12.0|
|    Av |   0.156   0.159   0.178|
|   Avt |   0.143   0.146   0.167|
|  Al/4 |                  1.94 |
|   Top |     5#7     5#7     5#7|
|       |     2#7     2#7     2#7|
|       |       0       0       0|
|   Bot |     4#7     4#7     4#7|
|   Str |  #4812  #4812  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|  -61-3 |G7       ( 40x 60)       B27|
|   1MF |0       L=  919       0|
|       |46                    55|
|   mat |     280    4200    4200|
|   Ast |    13.9     0.0    13.2|
|   Asb |     4.0     6.6     5.6|
|    Av |   0.033   0.033   0.033|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     4#7     3#7     4#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|   YY-1 |G8       ( 40x 60)       B28|
|   1MF |0       L=  770       0|
|       |40                    40|
|   mat |     280    4200    4200|
|   Ast |    13.5     0.4    13.4|
|   Asb |     4.1     5.2     4.5|
|    Av |   0.033   0.033   0.033|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     4#7     3#7     4#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|   56-1 |G9       ( 40x 60)       B29|
|   1MF |0       L=  926       0|
|       |48                    48|
|   mat |     280    4200    4200|
|   Ast |    12.3     0.0    12.2|
|   Asb |     4.0     6.1     4.5|
|    Av |   0.033   0.033   0.033|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     4#7     3#7     4#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|   51-1 |G10      ( 40x 60)       B24|
|   1MF |0       L=  754       0|
|       |55                    65|
|   mat |     280    4200    4200|
|   Ast |     9.5     2.2    17.0|
|   Asb |     4.6     3.6     2.4|
|    Av |   0.033   0.033   0.034|
|   Avt |   0.131   0.131   0.131|
|  Al/4 |                  1.94 |
|   Top |     5#7     3#7     5#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     3#7     3#7     3#7|
|   Str |  #4812  #4818  #4812|
|   Web |           2x 2#4     |
+--------+-------------------------+
+--------+-------------------------+
|  YY-15 |G11      ( 50x 75)       B25|
|   1MF |0       L= 1191       0|
|       |50                    50|
|   mat |     280    4200    4200|
|   Ast |    26.5     0.0    26.4|
|   Asb |    13.6    18.2    13.2|
|    Av |   0.050   0.042   0.049|
|   Avt |   0.151   0.151   0.151|
|  Al/4 |                  2.85 |
|   Top |     7#7     3#7     7#7|
|       |       0       0       0|
|       |       0       0       0|
|   Bot |     4#7     6#7     4#7|
|   Str |  #4812  #4815  #4812|
|   Web |           2x 3#4     |
+--------+-------------------------+
```

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|  -49-1 |G12      ( 40x 60)   B26|
|    1MF |0        L=  755        0|
|        |53                     67|
|    mat |    280    4200      4200|
|    Ast |   10.5     2.3     16.3|
|    Asb |    4.5     3.5      2.7|
|     Av |  0.033   0.033    0.033|
|    Avt |  0.131   0.131    0.131|
|   A1/4 |           1.94          |
|    Top |    5#7     3#7      5#7|
|        |      0       0        0|
|        |      0       0        0|
|    Bot |    3#7     3#7      3#7|
|    Str |  #4@12   #4@18    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|  -65-2 |G13      ( 60x 50)   B46|
|    1MF |55       L=  379        0|
|        |55                     55|
|    mat |    280    4200      4200|
|    Ast |   10.8     1.6     19.7|
|    Asb |   17.0     5.1     11.4|
|     Av |  0.097   0.093    0.136|
|    Avt |  0.154   0.154    0.154|
|   A1/4 |           2.31          |
|    Top |    6#7     6#7      6#7|
|        |      0       0        0|
|        |      0       0        0|
|    Bot |    5#7     5#7      5#7|
|    Str |  #4@10   #4@15    #4@10|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   YY-3 |G14      ( 60x 50)   B36|
|    1MF |0        L=  311       80|
|        |55                     80|
|    mat |    280    4200      4200|
|    Ast |   20.6     6.1     22.6|
|    Asb |   14.5    15.2     39.0|
|     Av |  0.462   0.443    0.414|
|    Avt |  0.268   0.247    0.215|
|   A1/4 |           2.31          |
|    Top |    9#7     9#7      9#7|
|        |    2#7     2#7      2#7|
|        |    2#7     2#7      2#7|
|    Bot |    9#7     9#7      9#7|
|    Str | 2#4@10  2#4@10   2#4@10|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   YY-5 |G15      ( 60x 50)   B42|
|    1MF |0        L=  361       80|
|        |55                     80|
|    mat |    280    4200      4200|
|    Ast |   23.5     6.1     17.7|
|    Asb |   11.4    24.3     44.2|
|     Av |  0.444   0.409    0.392|
|    Avt |  0.258   0.220    0.202|
|   A1/4 |           2.31          |
|    Top |   10#7    10#7     10#7|
|        |    2#7     2#7      2#7|
|        |    2#7     2#7      2#7|
|    Bot |   10#7    10#7     10#7|
|    Str | 2#4@10  2#4@10   2#4@10|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   XX-1 |G16      ( 40x 60)   B47|
|    1MF |80       L=  478        0|
|        |80                     75|
|    mat |    280    4200      4200|
|    Ast |   29.4     6.2     18.3|
|    Asb |   14.8     9.9     24.0|
|     Av |  0.207   0.177    0.141|
|    Avt |  0.199   0.174    0.133|
|   A1/4 |           1.94          |
|    Top |    5#7     3#7      5#7|
|        |    3#7       0      3#7|
|        |    2#7       0      2#7|
|    Bot |    5#7     3#7      5#7|
|    Str |  #4@12   #4@12    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   XX-5 |G17      ( 40x 60)   B65|
|    1MF |0        L=  478        0|
|        |-50                    -50|
|    mat |    280    4200      4200|
|    Ast |    0.0     0.0      0.0|
|    Asb |    6.7     8.5      6.7|
|     Av |  0.052   0.033    0.052|
|    Avt |  0.131   0.098    0.131|
|   A1/4 |           1.94          |
|    Top |    3#7     3#7      3#7|
|        |      0       0        0|
|        |      0       0        0|
|    Bot |    3#7     3#7      3#7|
|    Str |  #4@12   #4@18    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   63-1 |G18      ( 40x 60)   B49|
|    1MF |56       L=  307        0|
|        |56                     45|
|    mat |    280    4200      4200|
|    Ast |   13.5     5.0     15.1|
|    Asb |   11.4     6.3     11.0|
|     Av |  0.115   0.104    0.088|
|    Avt |  0.142   0.131    0.131|
|   A1/4 |           1.94          |
|    Top |    4#7     4#7      4#7|
|        |      0       0        0|
|        |      0       0        0|
|    Bot |    3#7     3#7      3#7|
|    Str |  #4@12   #4@12    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|  YY-12 |G19      ( 40x 60)   B50|
|    1MF |80       L=  400        0|
|        |80                     60|
|    mat |    280    4200      4200|
|    Ast |   17.9     7.1     21.3|
|    Asb |   31.6    17.8     12.9|
|     Av |  0.249   0.275    0.301|
|    Avt |  0.159   0.192    0.215|
|   A1/4 |           1.94          |
|    Top |    5#7     5#7      5#7|
```





```
|        |    4#7     4#7      4#7|
|        |    4#7     4#7      4#7|
|    Bot |    5#7     5#7      5#7|
|    Str |   #4@8    #4@8     #4@8|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|  YY-10 |G20      ( 40x 60)   B51|
|    1MF |80       L=  499        0|
|        |80                     60|
|    mat |    280    4200      4200|
|    Ast |   14.6     3.0     23.7|
|    Asb |   30.4    17.1      9.5|
|     Av |  0.140   0.197    0.223|
|    Avt |  0.131   0.174    0.202|
|   A1/4 |           1.94          |
|    Top |    5#7     3#7      5#7|
|        |    3#7       0      3#7|
|        |    3#7       0      3#7|
|    Bot |    5#7     5#7      5#7|
|    Str |  #4@10   #4@12    #4@10|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   YY-7 |G21      ( 40x 60)   B52|
|    1MF |80       L=  510        0|
|        |80                     60|
|    mat |    280    4200      4200|
|    Ast |   13.2     2.3     24.0|
|    Asb |   30.3    17.4      8.2|
|     Av |  0.135   0.197    0.224|
|    Avt |  0.131   0.173    0.203|
|   A1/4 |           1.94          |
|    Top |    5#7     3#7      5#7|
|        |    3#7       0      3#7|
|        |    3#7       0      3#7|
|    Bot |    5#7     5#7      5#7|
|    Str |  #4@10   #4@12    #4@10|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|   XX-3 |G22      ( 40x 60)   B57|
|    1MF |0        L=  448       80|
|        |60                     80|
|    mat |    280    4200      4200|
|    Ast |   10.7     5.0     25.5|
|    Asb |   17.0     6.7     12.9|
|     Av |  0.111   0.138    0.170|
|    Avt |  0.131   0.142    0.177|
|   A1/4 |           1.94          |
|    Top |    5#7     3#7      5#7|
|        |    2#7       0      2#7|
|        |      0       0        0|
|    Bot |    5#7     3#7      5#7|
|    Str |  #4@12   #4@15    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+
+--------+-------------------------+
|  -17-1 |B1       ( 40x 60)    B1|
|   PF-1 |47       L=  490       20|
|        |84                     50|
|    mat |    280    4200      4200|
|    Ast |    9.7     2.9      7.7|
|    Asb |    7.1     2.9      8.0|
|     Av |  0.033   0.033    0.033|
|    Avt |  0.131   0.131    0.131|
|   A1/4 |           1.94          |
|    Top |    3#7     3#7      3#7|
|        |      0       0        0|
|        |      0       0        0|
|    Bot |    3#7     3#7      3#7|
|    Str |  #4@12   #4@18    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+-------------------------+-------------------------+-------------------------+
|   -2-2 |B2       ( 40x 60)  B2|B3       ( 40x 60)  B3|B4       ( 40x 60)  B4|B5       ( 40x 60)    B5|
|   PF-1 |20       L=  575   20|20       L=  575   20|20       L=  575   20|20       L=  575      20|
|        |50                 50|50                 50|50                 50|50                    50|
|    mat |    280    4200      4200|    280    4200      4200|    280    4200      4200|    280    4200      4200|
|    Ast |    9.3     2.2      4.2|    6.7     1.5      5.1|    5.0     1.5      6.8|    4.2     2.3      9.4|
|    Asb |    3.0     2.0      6.5|    3.4     1.4      4.3|    4.3     1.4      3.4|    6.6     2.0      3.0|
|     Av |  0.033   0.033    0.033|  0.033   0.033    0.033|  0.033   0.033    0.033|  0.033   0.033    0.033|
|    Avt |  0.131   0.098    0.098|  0.098   0.098    0.098|  0.098   0.098    0.098|  0.098   0.098    0.131|
|   A1/4 |           1.94          |           1.94          |           1.94          |           1.94          |
|    Top |    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|
|        |      0       0        0|      0       0        0|      0       0        0|      0       0        0|
|        |      0       0        0|      0       0        0|      0       0        0|      0       0        0|
|    Bot |    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|
|    Str |  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|
|    Web |          2x 2#4         |          2x 2#4         |          2x 2#4         |          2x 2#4         |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+
|   17-1 |B6       ( 40x 60)    B6|
|   PF-1 |21       L=  490       47|
|        |52                     84|
|    mat |    280    4200      4200|
|    Ast |    7.4     2.8      9.5|
|    Asb |    7.9     2.8      6.7|
|     Av |  0.033   0.033    0.033|
|    Avt |  0.131   0.131    0.131|
|   A1/4 |           1.94          |
|    Top |    3#7     3#7      3#7|
|        |      0       0        0|
|        |      0       0        0|
|    Bot |    3#7     3#7      3#7|
|    Str |  #4@12   #4@18    #4@12|
|    Web |          2x 2#4         |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
|   13-1 |B7       ( 40x 60) B13|B8       ( 40x 60) B14|B9       ( 40x 60) B15|B10      ( 40x 60) B16|B11      ( 40x 60) B17|B12      ( 40x 60)   B18|
|   PF-1 |46       L=  480   20|20       L=  575   20|20       L=  575   20|20       L=  575   20|20       L=  575   20|20       L=  480      46|
|        |82                 50|50                 50|50                 50|50                 50|50                 51|51                    82|
|    mat |    280    4200      4200|    280    4200      4200|    280    4200      4200|    280    4200      4200|    280    4200      4200|    280    4200      4200|
|    Ast |    9.8     3.0      7.7|    8.7     2.1      4.1|    6.1     1.3      5.0|    4.9     1.3      6.1|    4.1     2.1      8.8|    7.6     3.0      9.8|
|    Asb |    7.2     2.8      8.1|    2.9     1.9      5.9|    3.3     1.3      3.9|    3.8     1.3      3.3|    6.0     1.9      2.9|    8.1     2.9      7.0|
|     Av |  0.033   0.033    0.033|  0.033   0.033    0.033|  0.033   0.033    0.033|  0.033   0.033    0.033|  0.033   0.033    0.033|  0.033   0.033    0.033|
|    Avt |  0.131   0.131    0.131|  0.131   0.098    0.098|  0.098   0.098    0.098|  0.098   0.098    0.098|  0.098   0.098    0.131|  0.131   0.131    0.131|
|   A1/4 |           1.94          |           1.94          |           1.94          |           1.94          |           1.94          |           1.94          |
|    Top |    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|
|        |      0       0        0|      0       0        0|      0       0        0|      0       0        0|      0       0        0|      0       0        0|
|        |      0       0        0|      0       0        0|      0       0        0|      0       0        0|      0       0        0|      0       0        0|
|    Bot |    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|    3#7     3#7      3#7|
|    Str |  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|  #4@12   #4@18    #4@12|
|    Web |          2x 2#4         |          2x 2#4         |          2x 2#4         |          2x 2#4         |          2x 2#4         |          2x 2#4         |
+--------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+-------------------------+
+--------+-------------------------+
|  -67-1 |G1       ( 40x 60)   B10|
|   PF-1 |22       L=  498       22|
|        |54                     54|
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|      mat |      280    4200    4200|
|      Ast |      8.5     2.4     6.8|
|      Asb |      5.3     3.0     7.5|
|       Av |    0.033   0.033   0.033|
|      Avt |    0.131   0.131   0.098|
|    Al/4  |              1.94      |
|      Top |      3#7     3#7     3#7|
|          |        0       0       0|
|          |        0       0       0|
|      Bot |      3#7     3#7     3#7|
|      Str |   #4@12   #4@18   #4@12|
|      Web |             2x 2#4     |
+--------+-----------------------+
+--------+-----------------------+
|     YY-2 |G2       ( 75x 75)   B11|
|     PF-1 |20       L=   770     20|
|          |50                     50|
|      mat |      280    4200    4200|
|      Ast |     18.5     1.0    16.8|
|      Asb |      7.0    12.5     7.2|
|       Av |    0.063   0.063   0.063|
|      Avt |    0.188   0.188   0.188|
|    Al/4  |              4.06      |
|      Top |      5#7     5#7     5#7|
|          |        0       0       0|
|          |        0       0       0|
|      Bot |      5#7     5#7     5#7|
|      Str |   #4@12   #4@12   #4@12|
|      Web |             2x 4#4     |
+--------+-----------------------+
+--------+-----------------------+
|     68-1 |G3       ( 40x 60)   B12|
|     PF-1 |22       L=   531     22|
|          |54                     54|
|      mat |      280    4200    4200|
|      Ast |      8.6     1.4     6.7|
|      Asb |      5.0     2.1     7.6|
|       Av |    0.033   0.033   0.033|
|      Avt |    0.131   0.131   0.098|
|    Al/4  |              1.94      |
|      Top |      3#7     3#7     3#7|
|          |        0       0       0|
|          |        0       0       0|
|      Bot |      3#7     3#7     3#7|
|      Str |   #4@12   #4@18   #4@12|
|      Web |             2x 2#4     |
+--------+-----------------------+
+--------+-----------------------+
|     56-3 |G4       ( 40x 60)    B7|
|     PF-1 |24       L=   287     24|
|          |60                     60|
|      mat |      280    4200    4200|
|      Ast |      7.5     2.1     8.5|
|      Asb |      7.8     1.9     7.3|
|       Av |    0.077   0.081   0.085|
|      Avt |    0.131   0.131   0.131|
|    Al/4  |              1.94      |
|      Top |      3#7     3#7     3#7|
|          |        0       0       0|
|          |        0       0       0|
|      Bot |      3#7     3#7     3#7|
|      Str |   #4@12   #4@12   #4@12|
|      Web |             2x 2#4     |
+--------+-----------------------+
+--------+-----------------------+
|    YY-13 |G5       ( 75x 80)    B8|
|     PF-1 |20       L= 1191     20|
|          |50                     50|
|      mat |      280    4200    4200|
|      Ast |     28.8     1.1    24.6|
|      Asb |     14.2    23.5     8.6|
|       Av |    0.063   0.063   0.063|
|      Avt |    0.191   0.191   0.191|
|    Al/4  |              4.31      |
|      Top |      8#7     8#7     8#7|
|          |        0       0       0|
|          |        0       0       0|
|      Bot |      5#7     8#7     5#7|
|      Str |   #4@12   #4@12   #4@12|
|      Web |             2x 4#4     |
+--------+-----------------------+
+--------+-----------------------+
|   -61-2 |G6       ( 40x 60)    B9|
|     PF-1 |23       L=   332     23|
|          |57                     57|
|      mat |      280    4200    4200|
|      Ast |      7.9     3.2     9.2|
|      Asb |      8.5     3.0     7.6|
|       Av |    0.051   0.053   0.059|
|      Avt |    0.131   0.131   0.131|
|    Al/4  |              1.94      |
|      Top |      3#7     3#7     3#7|
|          |        0       0       0|
|          |        0       0       0|
|      Bot |      3#7     3#7     3#7|
|      Str |   #4@12   #4@12   #4@12|
|      Web |             2x 2#4     |
+--------+-----------------------+
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P.45

TABLE: Steel Frame Summary - AISC LRFD 93

| Story | Label | Unique Name | Design Type | Design Section | Status | PMM Combo | PMM Ratio | P Ratio | M Major Ratio | M Minor Ratio | V Major Combo | V Major Ratio | V Minor Combo | V Minor Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | B66 | 247 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.203 | 0.036 | 0.155 | 0.012 | COMB575 | 0.033 | COMB575 | 0.019 |
| PF | B66 | | Beam | BOX400x200x12t | No Message | COMB200(T) | 0.051 | 0.001 | 0.041 | 0.008 | | | | |
| PF | B67 | 248 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.112 | 0.035 | 0.076 | 0.001 | COMB575 | 0.01 | COMB575 | 0.012 |
| PF | B67 | | Beam | BOX400x200x12t | No Message | COMB186(T) | 0.042 | 0.001 | 0.022 | 0.018 | | | | |
| PF | B68 | 249 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.1 | 0.028 | 0.071 | 0.001 | COMB29 | 0.009 | COMB60 | 0.009 |
| PF | B68 | | Beam | BOX400x200x12t | No Message | COMB197(T) | 0.045 | 0.001 | 0.026 | 0.018 | | | | |
| PF | B69 | 250 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.189 | 0.029 | 0.158 | 0.003 | COMB575 | 0.032 | COMB575 | 0.015 |
| PF | B69 | | Beam | BOX400x200x12t | No Message | COMB186(T) | 0.07 | 0.0003908 | 0.049 | 0.021 | | | | |
| PF | B72 | 253 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.129 | 0.024 | 0.074 | 0.03 | COMB575 | 0.018 | COMB36 | 0.016 |
| PF | B72 | | Beam | BOX400x200x12t | No Message | COMB144(T) | 0.042 | 0 | 0.02 | 0.022 | | | | |
| PF | B76 | 256 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.086 | 0.029 | 0.025 | 0.032 | COMB575 | 0.009 | COMB575 | 0.021 |
| PF | B76 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.014 | 0.004 | 0.0004822 | 0.009 | | | | |
| PF | B79 | 259 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.169 | 0.029 | 0.137 | 0.002 | COMB575 | 0.03 | COMB575 | 0.016 |
| PF | B79 | | Beam | BOX400x200x12t | No Message | COMB191(T) | 0.055 | 0.001 | 0.046 | 0.008 | | | | |
| PF | B80 | 260 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.097 | 0.03 | 0.067 | 0 | COMB575 | 0.009 | COMB37 | 0.009 |
| PF | B80 | | Beam | BOX400x200x12t | No Message | COMB176(T) | 0.04 | 0.001 | 0.021 | 0.018 | | | | |
| PF | B81 | 261 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.095 | 0.028 | 0.066 | 0 | COMB575 | 0.008 | COMB54 | 0.008 |
| PF | B81 | | Beam | BOX400x200x12t | No Message | COMB191(T) | 0.04 | 0.001 | 0.021 | 0.018 | | | | |
| PF | B82 | 262 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.155 | 0.026 | 0.126 | 0.003 | COMB575 | 0.029 | COMB46 | 0.012 |
| PF | B82 | | Beam | BOX400x200x12t | No Message | COMB178(T) | 0.061 | 0 | 0.044 | 0.017 | | | | |
| PF | B115 | 263 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.123 | 0.024 | 0.076 | 0.023 | COMB575 | 0.015 | COMB575 | 0.048 |
| PF | B115 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.053 | 0.004 | 0.041 | 0.008 | | | | |
| PF | B116 | 254 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.108 | 0.008 | 0.074 | 0.027 | COMB575 | 0.009 | COMB575 | 0.018 |
| PF | B116 | | Beam | BOX400x200x12t | No Message | COMB145(T) | 0.042 | 0 | 0.019 | 0.023 | | | | |
| PF | B20 | 252 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.107 | 0.008 | 0.069 | 0.03 | COMB575 | 0.01 | COMB36 | 0.016 |
| PF | B20 | | Beam | BOX400x200x12t | No Message | COMB162(T) | 0.041 | 0.0001076 | 0.018 | 0.023 | | | | |
| PF | B21 | 251 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.135 | 0.032 | 0.073 | 0.031 | COMB28 | 0.011 | COMB575 | 0.054 |
| PF | B21 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.05 | 0.005 | 0.038 | 0.008 | | | | |
| PF | B23 | 255 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.087 | 0.023 | 0.031 | 0.033 | COMB575 | 0.006 | COMB575 | 0.02 |
| PF | B23 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.035 | 0.004 | 0.023 | 0.009 | | | | |
| PF | B61 | 246 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.169 | 0.031 | 0.098 | 0.04 | COMB575 | 0.009 | COMB575 | 0.078 |
| PF | B61 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.05 | 0.005 | 0.035 | 0.009 | | | | |
| PF | B84 | 257 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.124 | 0.019 | 0.065 | 0.04 | COMB575 | 0.006 | COMB575 | 0.021 |
| PF | B84 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.042 | 0.003 | 0.028 | 0.011 | | | | |
| PF | B85 | 258 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.194 | 0.028 | 0.135 | 0.03 | COMB575 | 0.021 | COMB575 | 0.059 |
| PF | B85 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.056 | 0.005 | 0.043 | 0.008 | | | | |
| PF | B59 | 267 | Beam | BOX400x200x12t | No Message | COMB578(C) | 0.028 | 0.002 | 0.014 | 0.011 | COMB22 | 0.009 | COMB575 | 0.02 |
| PF | B59 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.086 | 0.008 | 0.036 | 0.041 | | | | |
| PF | B60 | 268 | Beam | BOX400x200x12t | No Message | COMB576(C) | 0.019 | 0.002 | 0.014 | 0.003 | COMB11 | 0.01 | COMB37 | 0.031 |
| PF | B60 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.128 | 0.016 | 0.082 | 0.03 | | | | |
| PF | B62 | 269 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.734 | 0.044 | 0.603 | 0.087 | COMB575 | 0.049 | COMB575 | 0.042 |
| PF | B62 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.147 | 0.008 | 0.119 | 0.02 | | | | |
| PF | B71 | 270 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.503 | 0.039 | 0.457 | 0.007 | COMB575 | 0.062 | COMB575 | 0.22 |
| PF | B71 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.101 | 0.006 | 0.093 | 0.002 | | | | |
| PF | B73 | 271 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.576 | 0.037 | 0.537 | 0.001 | COMB575 | 0.025 | COMB37 | 0.009 |
| PF | B73 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.106 | 0.005 | 0.1 | 0 | | | | |
| PF | B75 | 272 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.438 | 0.021 | 0.409 | 0.008 | COMB575 | 0.051 | COMB28 | 0.009 |
| PF | B75 | | Beam | BOX400x200x12t | No Message | COMB168(T) | 0.124 | 0.0003028 | 0.112 | 0.011 | | | | |
| PF | B77 | 274 | Beam | BOX400x200x12t | No Message | COMB151(C) | 0.052 | 0.001 | 0.038 | 0.014 | COMB28 | 0.011 | COMB4 | 0.014 |
| PF | B77 | | Beam | BOX400x200x12t | No Message | COMB4(T) | 0.086 | 0.003 | 0.054 | 0.028 | | | | |
| PF | B78 | 277 | Beam | BOX400x200x12t | No Message | COMB177(C) | 0.097 | 0 | 0.081 | 0.017 | COMB575 | 0.039 | COMB19 | 0.017 |
| PF | B78 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.271 | 0.005 | 0.237 | 0.029 | | | | |
| PF | B88 | 279 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.71 | 0.046 | 0.63 | 0.034 | COMB575 | 0.071 | COMB14 | 0.02 |
| PF | B88 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.127 | 0.006 | 0.118 | 0.003 | | | | |
| PF | B93 | 280 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.587 | 0.03 | 0.554 | 0.003 | COMB575 | 0.033 | COMB51 | 0.007 |
| PF | B93 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.086 | 0.004 | 0.082 | 0.0001885 | | | | |
| PF | B94 | 281 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.5 | 0.018 | 0.476 | 0.006 | COMB575 | 0.016 | COMB43 | 0.007 |
| PF | B94 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.078 | 0.002 | 0.075 | 0.0004921 | | | | |
| PF | B96 | 284 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.471 | 0.029 | 0.438 | 0.003 | COMB575 | 0.057 | COMB28 | 0.008 |
| PF | B96 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.058 | 0.003 | 0.055 | 0 | | | | |
| PF | B97 | 287 | Beam | BOX400x200x12t | No Message | COMB11(C) | 0.111 | 0.0002678 | 0.092 | 0.019 | COMB29 | 0.018 | COMB11 | 0.012 |
| PF | B97 | | Beam | BOX400x200x12t | No Message | COMB27(T) | 0.106 | 0 | 0.093 | 0.013 | | | | |
| PF | B98 | 290 | Beam | BOX400x200x12t | No Message | COMB19(C) | 0.225 | 0.0003996 | 0.196 | 0.028 | COMB575 | 0.044 | COMB19 | 0.012 |
| PF | B98 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.298 | 0.001 | 0.272 | 0.026 | | | | |
| PF | B99 | 291 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.496 | 0.033 | 0.46 | 0.002 | COMB575 | 0.066 | COMB5 | 0.01 |
| PF | B99 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.072 | 0.004 | 0.067 | 0.001 | | | | |
| PF | B100 | 292 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.542 | 0.022 | 0.519 | 0.001 | COMB575 | 0.02 | COMB46 | 0.004 |
| PF | B100 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.074 | 0.002 | 0.071 | 0.001 | | | | |
| PF | B102 | 293 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.544 | 0.023 | 0.519 | 0.002 | COMB575 | 0.019 | COMB61 | 0.004 |
| PF | B102 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.073 | 0.003 | 0.071 | 0.0001696 | | | | |
| PF | B106 | 296 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.502 | 0.034 | 0.464 | 0.005 | COMB575 | 0.067 | COMB19 | 0.009 |
| PF | B106 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.075 | 0.004 | 0.07 | 0.001 | | | | |
| PF | B107 | 297 | Beam | BOX400x200x12t | No Message | COMB11(C) | 0.233 | 0.001 | 0.202 | 0.03 | COMB575 | 0.046 | COMB11 | 0.016 |
| PF | B107 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.299 | 0.001 | 0.272 | 0.026 | | | | |
| PF | B110 | 298 | Beam | BOX400x200x12t | No Message | COMB22(C) | 0.119 | 0.0003479 | 0.096 | 0.022 | COMB575 | 0.019 | COMB22 | 0.012 |
| PF | B110 | | Beam | BOX400x200x12t | No Message | COMB21(T) | 0.115 | 0.0001067 | 0.096 | 0.019 | | | | |
| PF | B112 | 299 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.462 | 0.032 | 0.428 | 0.002 | COMB575 | 0.058 | COMB5 | 0.012 |
| PF | B112 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.056 | 0.004 | 0.052 | 0.0004489 | | | | |
| PF | B113 | 300 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.508 | 0.023 | 0.479 | 0.006 | COMB575 | 0.016 | COMB46 | 0.007 |
| PF | B113 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.079 | 0.003 | 0.076 | 0.0003942 | | | | |
| PF | B114 | 301 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.597 | 0.035 | 0.559 | 0.003 | COMB575 | 0.033 | COMB46 | 0.007 |
| PF | B114 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.088 | 0.005 | 0.083 | 0.0003431 | | | | |
| PF | B118 | 302 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.745 | 0.056 | 0.652 | 0.037 | COMB575 | 0.073 | COMB37 | 0.025 |
| PF | B118 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.137 | 0.008 | 0.125 | 0.003 | | | | |
| PF | B119 | 303 | Beam | BOX400x200x12t | No Message | COMB200(C) | 0.083 | 0 | 0.064 | 0.019 | COMB575 | 0.026 | COMB14 | 0.016 |
| PF | B119 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.208 | 0.006 | 0.18 | 0.022 | | | | |
| PF | B120 | 304 | Beam | BOX400x200x12t | No Message | COMB22(C) | 0.072 | 0.001 | 0.054 | 0.018 | COMB5 | 0.014 | COMB22 | 0.008 |
| PF | B120 | | Beam | BOX400x200x12t | No Message | COMB19(T) | 0.071 | 0 | 0.055 | 0.016 | | | | |
| PF | B121 | 305 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.425 | 0.023 | 0.394 | 0.007 | COMB575 | 0.05 | COMB5 | 0.014 |
| PF | B121 | | Beam | BOX400x200x12t | No Message | COMB145(T) | 0.124 | 0.0002929 | 0.113 | 0.01 | | | | |
| PF | B122 | 306 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.577 | 0.039 | 0.538 | 0.0003222 | COMB575 | 0.022 | COMB37 | 0.007 |
| PF | B122 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.107 | 0.006 | 0.101 | 0.0001009 | | | | |
| PF | B123 | 307 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.548 | 0.045 | 0.484 | 0.018 | COMB575 | 0.064 | COMB51 | 0.012 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | B123 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.11 | 0.007 | 0.098 | 0.005 | | | | |
| PF | B125 | 309 | Beam | BOX400x200x12t | No Message | COMB578(C) | 0.023 | 0.002 | 0.013 | 0.009 | COMB75 | 0.012 | COMB575 | 0.014 |
| PF | B125 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.062 | 0.009 | 0.04 | 0.013 | | | | |
| PF | B126 | 310 | Beam | BOX400x200x12t | No Message | COMB578(C) | 0.024 | 0.003 | 0.012 | 0.01 | COMB575 | 0.013 | COMB575 | 0.013 |
| PF | B126 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.082 | 0.011 | 0.06 | 0.011 | | | | |
| PF | B127 | 311 | Beam | BOX400x200x12t | No Message | COMB576(C) | 0.028 | 0.002 | 0.024 | 0.002 | COMB575 | 0.026 | COMB36 | 0.024 |
| PF | B127 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.166 | 0.016 | 0.146 | 0.004 | | | | |
| PF | B128 | 312 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.817 | 0.043 | 0.664 | 0.11 | COMB575 | 0.055 | COMB575 | 0.055 |
| PF | B128 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.165 | 0.009 | 0.133 | 0.024 | | | | |
| PF | B129 | 313 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.542 | 0.042 | 0.493 | 0.006 | COMB575 | 0.064 | COMB36 | 0.009 |
| PF | B129 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.109 | 0.007 | 0.101 | 0.002 | | | | |
| PF | B130 | 314 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.579 | 0.039 | 0.54 | 0.001 | COMB575 | 0.022 | COMB43 | 0.009 |
| PF | B130 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.108 | 0.006 | 0.102 | 0 | | | | |
| PF | B131 | 315 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.428 | 0.025 | 0.395 | 0.008 | COMB575 | 0.051 | COMB11 | 0.009 |
| PF | B131 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.065 | 0.005 | 0.06 | 0.001 | | | | |
| PF | B132 | 316 | Beam | BOX400x200x12t | No Message | COMB164(C) | 0.06 | 0.001 | 0.043 | 0.015 | COMB14 | 0.012 | COMB23 | 0.007 |
| PF | B132 | | Beam | BOX400x200x12t | No Message | COMB23(T) | 0.058 | 0.002 | 0.038 | 0.018 | | | | |
| PF | B133 | 317 | Beam | BOX400x200x12t | No Message | COMB578(C) | 0.006 | 0.002 | 0.0001815 | 0.005 | COMB575 | 0.005 | COMB43 | 0.011 |
| PF | B133 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.031 | 0.007 | 0.008 | 0.016 | | | | |
| PF | B134 | 318 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.713 | 0.06 | 0.602 | 0.052 | COMB575 | 0.07 | COMB575 | 0.029 |
| PF | B134 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.127 | 0.008 | 0.112 | 0.007 | | | | |
| PF | B135 | 319 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.601 | 0.037 | 0.558 | 0.006 | COMB575 | 0.033 | COMB61 | 0.007 |
| PF | B135 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.088 | 0.005 | 0.083 | 0.0003883 | | | | |
| PF | B136 | 320 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.509 | 0.025 | 0.479 | 0.006 | COMB575 | 0.016 | COMB61 | 0.007 |
| PF | B136 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.079 | 0.003 | 0.076 | 0.0004212 | | | | |
| PF | B137 | 321 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.463 | 0.034 | 0.426 | 0.002 | COMB575 | 0.057 | COMB11 | 0.008 |
| PF | B137 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.057 | 0.004 | 0.052 | 0.0003835 | | | | |
| PF | B138 | 322 | Beam | BOX400x200x12t | No Message | COMB28(C) | 0.108 | 0.0001554 | 0.087 | 0.021 | COMB14 | 0.017 | COMB28 | 0.011 |
| PF | B138 | | Beam | BOX400x200x12t | No Message | COMB30(T) | 0.105 | 0 | 0.087 | 0.018 | | | | |
| PF | B139 | 323 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.36 | 0.001 | 0.314 | 0.045 | COMB575 | 0.051 | COMB575 | 0.025 |
| PF | B139 | | Beam | BOX400x200x12t | No Message | COMB102(T) | 0.225 | 0 | 0.202 | 0.023 | | | | |
| PF | B140 | 324 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.482 | 0.031 | 0.446 | 0.005 | COMB575 | 0.065 | COMB22 | 0.011 |
| PF | B140 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.073 | 0.003 | 0.069 | 0.0002603 | | | | |
| PF | B141 | 325 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.544 | 0.023 | 0.52 | 0.001 | COMB575 | 0.019 | COMB54 | 0.004 |
| PF | B141 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.074 | 0.002 | 0.071 | 0.0004689 | | | | |
| PF | B142 | 326 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.544 | 0.023 | 0.52 | 0.002 | COMB575 | 0.02 | COMB51 | 0.004 |
| PF | B142 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.074 | 0.002 | 0.071 | 0.0002221 | | | | |
| PF | B143 | 327 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.506 | 0.035 | 0.466 | 0.005 | COMB575 | 0.066 | COMB140 | 0.009 |
| PF | B143 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.072 | 0.004 | 0.067 | 0.001 | | | | |
| PF | B144 | 328 | Beam | BOX400x200x12t | No Message | COMB29(C) | 0.211 | 0.000153 | 0.187 | 0.024 | COMB575 | 0.041 | COMB29 | 0.01 |
| PF | B144 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.271 | 0.001 | 0.252 | 0.018 | | | | |
| PF | B145 | 329 | Beam | BOX400x200x12t | No Message | COMB5(C) | 0.131 | 0.001 | 0.104 | 0.026 | COMB575 | 0.021 | COMB5 | 0.016 |
| PF | B145 | | Beam | BOX400x200x12t | No Message | COMB131(T) | 0.123 | 0.001 | 0.102 | 0.02 | | | | |
| PF | B146 | 330 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.462 | 0.028 | 0.432 | 0.003 | COMB575 | 0.056 | COMB22 | 0.01 |
| PF | B146 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.057 | 0.003 | 0.054 | 0.0001938 | | | | |
| PF | B147 | 331 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.5 | 0.019 | 0.475 | 0.006 | COMB575 | 0.016 | COMB60 | 0.006 |
| PF | B147 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.077 | 0.002 | 0.075 | 0.0004662 | | | | |
| PF | B148 | 332 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.584 | 0.031 | 0.552 | 0.001 | COMB575 | 0.033 | COMB36 | 0.005 |
| PF | B148 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.086 | 0.004 | 0.082 | 0.0001849 | | | | |
| PF | B149 | 333 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.718 | 0.05 | 0.631 | 0.037 | COMB575 | 0.071 | COMB4 | 0.023 |
| PF | B149 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.131 | 0.007 | 0.121 | 0.003 | | | | |
| PF | B150 | 334 | Beam | BOX400x200x12t | No Message | COMB194(C) | 0.099 | 0 | 0.077 | 0.021 | COMB575 | 0.031 | COMB29 | 0.014 |
| PF | B150 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.23 | 0.005 | 0.206 | 0.019 | | | | |
| PF | B151 | 335 | Beam | BOX400x200x12t | No Message | COMB140(C) | 0.063 | 0.0001297 | 0.049 | 0.015 | COMB22 | 0.014 | COMB5 | 0.01 |
| PF | B151 | | Beam | BOX400x200x12t | No Message | COMB131(T) | 0.065 | 0.002 | 0.048 | 0.015 | | | | |
| PF | B152 | 336 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.421 | 0.02 | 0.393 | 0.008 | COMB575 | 0.049 | COMB22 | 0.012 |
| PF | B152 | | Beam | BOX400x200x12t | No Message | COMB162(T) | 0.122 | 0.001 | 0.11 | 0.011 | | | | |
| PF | B153 | 337 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.571 | 0.036 | 0.535 | 0.0004451 | COMB575 | 0.024 | COMB54 | 0.008 |
| PF | B153 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.105 | 0.005 | 0.1 | 0 | | | | |
| PF | B154 | 338 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.518 | 0.041 | 0.46 | 0.018 | COMB575 | 0.062 | COMB37 | 0.011 |
| PF | B154 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.103 | 0.006 | 0.093 | 0.005 | | | | |
| PF | B155 | 339 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.751 | 0.047 | 0.612 | 0.092 | COMB575 | 0.051 | COMB575 | 0.044 |
| PF | B155 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.148 | 0.008 | 0.116 | 0.024 | | | | |
| PF | B156 | 340 | Beam | BOX400x200x12t | No Message | COMB576(C) | 0.023 | 0.001 | 0.016 | 0.006 | COMB69 | 0.021 | COMB29 | 0.033 |
| PF | B156 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.14 | 0.013 | 0.084 | 0.042 | | | | |
| PF | B157 | 341 | Beam | BOX400x200x12t | No Message | COMB578(C) | 0.025 | 0.002 | 0.014 | 0.009 | COMB28 | 0.011 | COMB575 | 0.015 |
| PF | B157 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.063 | 0.008 | 0.043 | 0.012 | | | | |
| PF | B158 | 342 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.131 | 0.01 | 0.105 | 0.016 | COMB575 | 0.02 | COMB575 | 0.011 |
| PF | B158 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.016 | 0.002 | 0.008 | 0.005 | | | | |
| PF | B159 | 343 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.151 | 0.014 | 0.089 | 0.048 | COMB575 | 0.02 | COMB575 | 0.016 |
| PF | B159 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.044 | 0.002 | 0.03 | 0.012 | | | | |
| PF | B160 | 344 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.109 | 0.006 | 0.083 | 0.02 | COMB575 | 0.009 | COMB575 | 0.009 |
| PF | B160 | | Beam | BOX400x200x12t | No Message | COMB201(T) | 0.029 | 0.0002463 | 0.015 | 0.014 | | | | |
| PF | B161 | 345 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.137 | 0.01 | 0.111 | 0.015 | COMB575 | 0.023 | COMB575 | 0.011 |
| PF | B161 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.018 | 0.003 | 0.01 | 0.005 | | | | |
| PF | B162 | 346 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.213 | 0.017 | 0.138 | 0.058 | COMB575 | 0.024 | COMB575 | 0.022 |
| PF | B162 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.057 | 0.003 | 0.04 | 0.015 | | | | |
| PF | B163 | 347 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.155 | 0.006 | 0.13 | 0.019 | COMB5 | 0.007 | COMB575 | 0.013 |
| PF | B163 | | Beam | BOX400x200x12t | No Message | COMB58(T) | 0.076 | 0 | 0.059 | 0.017 | | | | |
| PF | B164 | 348 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.122 | 0.004 | 0.103 | 0.015 | COMB19 | 0.011 | COMB575 | 0.011 |
| PF | B164 | | Beam | BOX400x200x12t | No Message | COMB43(T) | 0.054 | 0.0001695 | 0.053 | 0.001 | | | | |
| PF | B165 | 349 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.15 | 0.013 | 0.084 | 0.053 | COMB575 | 0.017 | COMB575 | 0.017 |
| PF | B165 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.059 | 0.002 | 0.042 | 0.014 | | | | |
| PF | B166 | 350 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.106 | 0.006 | 0.097 | 0.004 | COMB575 | 0.027 | COMB575 | 0.007 |
| PF | B166 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.012 | 0.001 | 0.01 | 0.001 | | | | |
| PF | B167 | 351 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.121 | 0.003 | 0.107 | 0.011 | COMB4 | 0.009 | COMB36 | 0.009 |
| PF | B167 | | Beam | BOX400x200x12t | No Message | COMB36(T) | 0.075 | 0.000251 | 0.055 | 0.019 | | | | |
| PF | B168 | 352 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.154 | 0.014 | 0.09 | 0.05 | COMB575 | 0.016 | COMB575 | 0.016 |
| PF | B168 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.062 | 0.002 | 0.046 | 0.014 | | | | |
| PF | B169 | 353 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.1 | 0.006 | 0.088 | 0.006 | COMB575 | 0.03 | COMB575 | 0.009 |
| PF | B169 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.012 | 0.001 | 0.009 | 0.001 | | | | |
| PF | B170 | 354 | Beam | BOX400x200x12t | No Message | COMB54(C) | 0.138 | 0.001 | 0.117 | 0.019 | COMB575 | 0.024 | COMB51 | 0.019 |
| PF | B170 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.199 | 0.002 | 0.184 | 0.013 | | | | |
| PF | B171 | 355 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.362 | 0.019 | 0.338 | 0.005 | COMB575 | 0.034 | COMB575 | 0.033 |
| PF | B171 | | Beam | BOX400x200x12t | No Message | COMB43(T) | 0.168 | 0.001 | 0.151 | 0.016 | | | | |
| PF | B172 | 356 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.519 | 0.023 | 0.476 | 0.019 | COMB575 | 0.067 | COMB36 | 0.121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | B172 | | Beam | BOX400x200x12t | No Message | COMB43(T) | 0.231 | 0.001 | 0.224 | 0.007 | | | | |
| PF | B173 | 357 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.465 | 0.008 | 0.445 | 0.012 | COMB36 | 0.079 | COMB575 | 0.024 |
| PF | B173 | | Beam | BOX400x200x12t | No Message | COMB22(T) | 0.217 | 0.0004251 | 0.211 | 0.006 | | | | |
| PF | B174 | 358 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.488 | 0.002 | 0.404 | 0.081 | COMB575 | 0.057 | COMB575 | 0.047 |
| PF | B174 | | Beam | BOX400x200x12t | No Message | COMB101(T) | 0.294 | 0.000325 | 0.253 | 0.04 | | | | |
| PF | B175 | 359 | Beam | BOX400x200x12t | No Message | COMB60(C) | 0.048 | 0.001 | 0.034 | 0.013 | COMB575 | 0.013 | COMB61 | 0.008 |
| PF | B175 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.054 | 0.0002814 | 0.049 | 0.005 | | | | |
| PF | B176 | 360 | Beam | BOX400x200x12t | No Message | COMB60(C) | 0.116 | 0.002 | 0.095 | 0.018 | COMB575 | 0.02 | COMB61 | 0.016 |
| PF | B176 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.171 | 0.001 | 0.159 | 0.011 | | | | |
| PF | B177 | 361 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.414 | 0.021 | 0.388 | 0.005 | COMB575 | 0.038 | COMB575 | 0.031 |
| PF | B177 | | Beam | BOX400x200x12t | No Message | COMB37(T) | 0.196 | 0.001 | 0.177 | 0.018 | | | | |
| PF | B178 | 362 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.558 | 0.026 | 0.51 | 0.021 | COMB575 | 0.071 | COMB43 | 0.013 |
| PF | B178 | | Beam | BOX400x200x12t | No Message | COMB37(T) | 0.249 | 0 | 0.245 | 0.004 | | | | |
| PF | B179 | 363 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.471 | 0.01 | 0.452 | 0.009 | COMB43 | 0.073 | COMB54 | 0.053 |
| PF | B179 | | Beam | BOX400x200x12t | No Message | COMB36(T) | 0.187 | 0.004 | 0.15 | 0.032 | | | | |
| PF | B180 | 364 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.47 | 0.003 | 0.389 | 0.079 | COMB575 | 0.058 | COMB575 | 0.044 |
| PF | B180 | | Beam | BOX400x200x12t | No Message | COMB107(T) | 0.282 | 0.000173 | 0.243 | 0.039 | | | | |
| PF | B181 | 365 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.042 | 0.0002678 | 0.039 | 0.003 | COMB575 | 0.008 | COMB54 | 0.006 |
| PF | B181 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.031 | 0 | 0.029 | 0.003 | | | | |
| PF | B182 | 366 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.056 | 0.001 | 0.035 | 0.02 | COMB137 | 0.004 | COMB575 | 0.01 |
| PF | B182 | | Beam | BOX400x200x12t | No Message | COMB19(T) | 0.032 | 0 | 0.022 | 0.009 | | | | |
| PF | B183 | 367 | Beam | BOX400x200x12t | No Message | COMB110(C) | 0.323 | 0.001 | 0.239 | 0.083 | COMB575 | 0.06 | COMB575 | 0.076 |
| PF | B183 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.49 | 0.001 | 0.352 | 0.136 | | | | |
| PF | B184 | 368 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.543 | 0.017 | 0.511 | 0.015 | COMB575 | 0.076 | COMB60 | 0.021 |
| PF | B184 | | Beam | BOX400x200x12t | No Message | COMB46(T) | 0.189 | 0.000294 | 0.188 | 0.001 | | | | |
| PF | B185 | 369 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.517 | 0.025 | 0.483 | 0.01 | COMB575 | 0.065 | COMB54 | 0.008 |
| PF | B185 | | Beam | BOX400x200x12t | No Message | COMB60(T) | 0.179 | 0.0004569 | 0.172 | 0.006 | | | | |
| PF | B186 | 370 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.394 | 0.021 | 0.366 | 0.006 | COMB575 | 0.038 | COMB575 | 0.042 |
| PF | B186 | | Beam | BOX400x200x12t | No Message | COMB196(T) | 0.122 | 0.002 | 0.105 | 0.016 | | | | |
| PF | B187 | 371 | Beam | BOX400x200x12t | No Message | COMB37(C) | 0.096 | 0.002 | 0.066 | 0.028 | COMB5 | 0.008 | COMB575 | 0.026 |
| PF | B187 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.129 | 0.001 | 0.1 | 0.028 | | | | |
| PF | B188 | 372 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.057 | 0.001 | 0.033 | 0.022 | COMB575 | 0.006 | COMB575 | 0.011 |
| PF | B188 | | Beam | BOX400x200x12t | No Message | COMB8(T) | 0.027 | 0 | 0.018 | 0.009 | | | | |
| PF | B189 | 373 | Beam | BOX400x200x12t | No Message | COMB100(C) | 0.293 | 0.001 | 0.212 | 0.081 | COMB575 | 0.055 | COMB575 | 0.074 |
| PF | B189 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.437 | 0.001 | 0.305 | 0.131 | | | | |
| PF | B190 | 374 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.558 | 0.022 | 0.517 | 0.019 | COMB575 | 0.072 | COMB54 | 0.018 |
| PF | B190 | | Beam | BOX400x200x12t | No Message | COMB58(T) | 0.156 | 0 | 0.148 | 0.009 | | | | |
| PF | B191 | 375 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.562 | 0.031 | 0.516 | 0.015 | COMB575 | 0.067 | COMB60 | 0.011 |
| PF | B191 | | Beam | BOX400x200x12t | No Message | COMB190(T) | 0.173 | 0.0003432 | 0.165 | 0.008 | | | | |
| PF | B192 | 376 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.44 | 0.026 | 0.407 | 0.008 | COMB575 | 0.041 | COMB575 | 0.027 |
| PF | B192 | | Beam | BOX400x200x12t | No Message | COMB190(T) | 0.141 | 0.001 | 0.123 | 0.018 | | | | |
| PF | B193 | 377 | Beam | BOX400x200x12t | No Message | COMB43(C) | 0.119 | 0.001 | 0.102 | 0.016 | COMB575 | 0.024 | COMB46 | 0.014 |
| PF | B193 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.19 | 0.002 | 0.18 | 0.008 | | | | |
| PF | B209 | 238 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.277 | 0.021 | 0.25 | 0.007 | COMB575 | 0.028 | COMB28 | 0.008 |
| PF | B209 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.039 | 0.003 | 0.036 | 0.0001902 | | | | |
| PF | B210 | 241 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.262 | 0.023 | 0.236 | 0.003 | COMB575 | 0.032 | COMB54 | 0.006 |
| PF | B210 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.041 | 0.003 | 0.036 | 0.001 | | | | |
| PF | B211 | 236 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.325 | 0.02 | 0.303 | 0.002 | COMB575 | 0.019 | COMB4 | 0.008 |
| PF | B211 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.054 | 0.003 | 0.051 | 0.0002172 | | | | |
| PF | B212 | 239 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.327 | 0.022 | 0.304 | 0.001 | COMB575 | 0.019 | COMB29 | 0.005 |
| PF | B212 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.055 | 0.003 | 0.051 | 0 | | | | |
| PF | B213 | 240 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.316 | 0.018 | 0.297 | 0.0003558 | COMB575 | 0.015 | COMB60 | 0.006 |
| PF | B213 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.047 | 0.002 | 0.042 | 0.003 | | | | |
| PF | B215 | 390 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.317 | 0.021 | 0.296 | 0.0003143 | COMB575 | 0.016 | COMB11 | 0.006 |
| PF | B215 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.046 | 0.003 | 0.043 | 0 | | | | |
| PF | B216 | 131 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.284 | 0.021 | 0.256 | 0.007 | COMB575 | 0.028 | COMB11 | 0.008 |
| PF | B216 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.041 | 0.003 | 0.038 | 0.0002287 | | | | |
| PF | B217 | 388 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.273 | 0.022 | 0.241 | 0.01 | COMB575 | 0.032 | COMB60 | 0.006 |
| PF | B217 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.044 | 0.003 | 0.038 | 0.003 | | | | |
| PF | B221 | 394 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.356 | 0.017 | 0.339 | 0.0002445 | COMB575 | 0.015 | COMB46 | 0.004 |
| PF | B221 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.052 | 0.002 | 0.049 | 0.0001171 | | | | |
| PF | B222 | 391 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.378 | 0.017 | 0.36 | 0.001 | COMB575 | 0.018 | COMB61 | 0.007 |
| PF | B222 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.052 | 0.002 | 0.05 | 0.0001159 | | | | |
| PF | B223 | 237 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.355 | 0.015 | 0.339 | 0.002 | COMB575 | 0.014 | COMB36 | 0.006 |
| PF | B223 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.052 | 0.002 | 0.049 | 0.0003042 | | | | |
| PF | B224 | 392 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.379 | 0.017 | 0.361 | 0.001 | COMB575 | 0.018 | COMB51 | 0.005 |
| PF | B224 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.053 | 0.002 | 0.05 | 0.0002578 | | | | |
| PF | B235 | 398 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.295 | 0.023 | 0.262 | 0.009 | COMB575 | 0.03 | COMB43 | 0.005 |
| PF | B235 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.04 | 0.003 | 0.033 | 0.004 | | | | |
| PF | B236 | 400 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.291 | 0.022 | 0.26 | 0.009 | COMB575 | 0.03 | COMB61 | 0.005 |
| PF | B236 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.039 | 0.003 | 0.032 | 0.004 | | | | |
| PF | B237 | 397 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.324 | 0.019 | 0.305 | 0 | COMB575 | 0.016 | COMB5 | 0.005 |
| PF | B237 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.046 | 0.002 | 0.044 | 0 | | | | |
| PF | B238 | 401 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.324 | 0.019 | 0.305 | 0.000244 | COMB575 | 0.017 | COMB11 | 0.005 |
| PF | B238 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.046 | 0.002 | 0.044 | 0.0001616 | | | | |
| PF | B239 | 396 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.325 | 0.018 | 0.307 | 0.0001398 | COMB575 | 0.016 | COMB61 | 0.005 |
| PF | B239 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.047 | 0.002 | 0.045 | 0 | | | | |
| PF | B241 | 404 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.325 | 0.018 | 0.307 | 0.0002357 | COMB575 | 0.016 | COMB164 | 0.005 |
| PF | B241 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.047 | 0.002 | 0.045 | 0.0001873 | | | | |
| PF | B242 | 402 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.292 | 0.021 | 0.264 | 0.007 | COMB575 | 0.029 | COMB54 | 0.006 |
| PF | B242 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.04 | 0.003 | 0.034 | 0.003 | | | | |
| PF | B243 | 395 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.291 | 0.021 | 0.263 | 0.007 | COMB575 | 0.029 | COMB37 | 0.005 |
| PF | B243 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.039 | 0.003 | 0.034 | 0.003 | | | | |
| PF | B252 | 408 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.377 | 0.017 | 0.36 | 0.0001777 | COMB575 | 0.018 | COMB46 | 0.007 |
| PF | B252 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.052 | 0.002 | 0.05 | 0 | | | | |
| PF | B254 | 414 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.356 | 0.016 | 0.339 | 0.0004566 | COMB575 | 0.015 | COMB22 | 0.005 |
| PF | B254 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.052 | 0.002 | 0.049 | 0 | | | | |
| PF | B255 | 412 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.355 | 0.015 | 0.338 | 0.001 | COMB575 | 0.014 | COMB51 | 0.005 |
| PF | B255 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.051 | 0.002 | 0.049 | 0.0002097 | | | | |
| PF | B256 | 415 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.379 | 0.018 | 0.361 | 0.001 | COMB575 | 0.018 | COMB36 | 0.005 |
| PF | B256 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.053 | 0.002 | 0.05 | 0.0001664 | | | | |
| PF | B260 | 417 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.278 | 0.021 | 0.25 | 0.008 | COMB575 | 0.028 | COMB19 | 0.009 |
| PF | B260 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.039 | 0.003 | 0.036 | 0.0003728 | | | | |
| PF | B261 | 419 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.261 | 0.023 | 0.234 | 0.003 | COMB575 | 0.032 | COMB37 | 0.006 |
| PF | B261 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.04 | 0.003 | 0.036 | 0.001 | | | | |
| PF | B263 | 418 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.323 | 0.021 | 0.302 | 0.0004238 | COMB575 | 0.019 | COMB14 | 0.007 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | B263 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.054 | 0.003 | 0.05 | 0.0001293 | | | | |
| PF | B264 | 407 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.317 | 0.02 | 0.296 | 0.0004508 | COMB575 | 0.016 | COMB5 | 0.006 |
| PF | B264 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.046 | 0.003 | 0.043 | 0.0001339 | | | | |
| PF | B267 | 410 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.316 | 0.019 | 0.297 | 0.001 | COMB575 | 0.015 | COMB61 | 0.007 |
| PF | B267 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.046 | 0.002 | 0.044 | 0.0001987 | | | | |
| PF | B269 | 424 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.328 | 0.022 | 0.304 | 0.002 | COMB575 | 0.019 | COMB28 | 0.005 |
| PF | B269 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.054 | 0.003 | 0.051 | 0 | | | | |
| PF | B270 | 422 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.284 | 0.02 | 0.253 | 0.011 | COMB575 | 0.027 | COMB60 | 0.009 |
| PF | B270 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.041 | 0.003 | 0.037 | 0.001 | | | | |
| PF | B271 | 406 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.267 | 0.023 | 0.24 | 0.005 | COMB575 | 0.032 | COMB43 | 0.007 |
| PF | B271 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.042 | 0.003 | 0.037 | 0.002 | | | | |
| PF | B63 | 244 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.175 | 0.018 | 0.146 | 0.011 | COMB575 | 0.013 | COMB60 | 0.019 |
| PF | B63 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.026 | 0.003 | 0.02 | 0.002 | | | | |
| PF | B64 | 389 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.395 | 0.029 | 0.365 | 0.001 | COMB575 | 0.062 | COMB28 | 0.013 |
| PF | B64 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.063 | 0.005 | 0.056 | 0.002 | | | | |
| PF | B70 | 393 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.17 | 0.018 | 0.14 | 0.012 | COMB575 | 0.004 | COMB60 | 0.017 |
| PF | B70 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.019 | 0.0002538 | 0.019 | 0.0001278 | | | | |
| PF | B74 | 399 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.592 | 0.029 | 0.554 | 0.01 | COMB575 | 0.009 | COMB46 | 0.009 |
| PF | B74 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.092 | 0.005 | 0.085 | 0.003 | | | | |
| PF | B83 | 403 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.583 | 0.029 | 0.552 | 0.002 | COMB575 | 0.008 | COMB36 | 0.006 |
| PF | B83 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.09 | 0.005 | 0.084 | 0.001 | | | | |
| PF | B86 | 405 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.162 | 0.016 | 0.144 | 0.002 | COMB575 | 0.014 | COMB54 | 0.015 |
| PF | B86 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.023 | 0.003 | 0.02 | 0.001 | | | | |
| PF | B90 | 409 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.163 | 0.018 | 0.136 | 0.008 | COMB575 | 0.004 | COMB29 | 0.015 |
| PF | B90 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.02 | 0.0003634 | 0.019 | 0 | | | | |
| PF | B199 | 411 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.417 | 0.031 | 0.379 | 0.007 | COMB575 | 0.062 | COMB11 | 0.01 |
| PF | B199 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.068 | 0.005 | 0.062 | 0.001 | | | | |
| PF | B200 | 413 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.49 | 0.021 | 0.466 | 0.003 | COMB575 | 0.035 | COMB28 | 0.008 |
| PF | B200 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.069 | 0.003 | 0.065 | 0.0004718 | | | | |
| PF | B201 | 416 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.195 | 0.014 | 0.175 | 0.006 | COMB575 | 0.013 | COMB61 | 0.013 |
| PF | B201 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.019 | 0.003 | 0.015 | 0.001 | | | | |
| PF | B202 | 420 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.231 | 0.015 | 0.215 | 0.001 | COMB575 | 0.007 | COMB60 | 0.009 |
| PF | B202 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.029 | 0.0003796 | 0.029 | 0 | | | | |
| PF | B203 | 421 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.484 | 0.022 | 0.461 | 0.001 | COMB575 | 0.036 | COMB8 | 0.006 |
| PF | B203 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.068 | 0.003 | 0.064 | 0.0004347 | | | | |
| PF | B204 | 423 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.179 | 0.018 | 0.15 | 0.011 | COMB575 | 0.008 | COMB22 | 0.015 |
| PF | B204 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.021 | 0.0003702 | 0.02 | 0.0004494 | | | | |
| PF | B205 | 425 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.585 | 0.026 | 0.559 | 0.0004125 | COMB575 | 0.011 | COMB51 | 0.005 |
| PF | B205 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.08 | 0.004 | 0.077 | 0 | | | | |
| PF | B206 | 426 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.385 | 0.032 | 0.352 | 0.001 | COMB575 | 0.063 | COMB5 | 0.01 |
| PF | B206 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.053 | 0.005 | 0.047 | 0.0004483 | | | | |
| PF | B207 | 427 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.175 | 0.018 | 0.148 | 0.008 | COMB575 | 0.008 | COMB28 | 0.014 |
| PF | B207 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.021 | 0.0003765 | 0.02 | 0.0002897 | | | | |
| PF | B208 | 428 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.365 | 0.029 | 0.332 | 0.004 | COMB575 | 0.061 | COMB22 | 0.009 |
| PF | B208 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.045 | 0.004 | 0.04 | 0.001 | | | | |
| PF | B214 | 429 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.174 | 0.017 | 0.151 | 0.006 | COMB575 | 0.009 | COMB4 | 0.014 |
| PF | B214 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.02 | 0.000199 | 0.02 | 0.0002421 | | | | |
| PF | B218 | 430 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.175 | 0.017 | 0.152 | 0.005 | COMB575 | 0.009 | COMB11 | 0.013 |
| PF | B218 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.02 | 0.0002222 | 0.02 | 0 | | | | |
| PF | B219 | 431 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.586 | 0.025 | 0.561 | 0.0001881 | COMB575 | 0.012 | COMB61 | 0.005 |
| PF | B219 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.081 | 0.003 | 0.077 | 0.0001186 | | | | |
| PF | B225 | 433 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.169 | 0.017 | 0.138 | 0.013 | COMB575 | 0.004 | COMB43 | 0.018 |
| PF | B225 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.019 | 0.0001827 | 0.019 | 0.0004534 | | | | |
| PF | B226 | 434 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.174 | 0.016 | 0.147 | 0.011 | COMB575 | 0.014 | COMB43 | 0.019 |
| PF | B226 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.026 | 0.003 | 0.02 | 0.002 | | | | |
| PF | B227 | 435 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.484 | 0.022 | 0.461 | 0.001 | COMB575 | 0.036 | COMB51 | 0.006 |
| PF | B227 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.067 | 0.003 | 0.064 | 0.0001067 | | | | |
| PF | B228 | 436 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.23 | 0.015 | 0.215 | 0.0003319 | COMB575 | 0.007 | COMB43 | 0.009 |
| PF | B228 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.029 | 0.0003376 | 0.029 | 0.0001701 | | | | |
| PF | B229 | 437 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.49 | 0.022 | 0.465 | 0.004 | COMB575 | 0.035 | COMB22 | 0.009 |
| PF | B229 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.069 | 0.003 | 0.065 | 0.001 | | | | |
| PF | B230 | 438 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.59 | 0.029 | 0.553 | 0.009 | COMB575 | 0.009 | COMB61 | 0.008 |
| PF | B230 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.092 | 0.005 | 0.084 | 0.002 | | | | |
| PF | B231 | 439 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.192 | 0.013 | 0.175 | 0.004 | COMB575 | 0.013 | COMB43 | 0.012 |
| PF | B231 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.019 | 0.0004498 | 0.018 | 0.001 | | | | |
| PF | B232 | 440 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.584 | 0.029 | 0.551 | 0.004 | COMB575 | 0.008 | COMB51 | 0.007 |
| PF | B232 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.09 | 0.005 | 0.084 | 0.001 | | | | |
| PF | B233 | 441 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.163 | 0.018 | 0.135 | 0.011 | COMB575 | 0.004 | COMB37 | 0.016 |
| PF | B233 | | Beam | BOX300x200x12t | No Message | COMB576(T) | 0.02 | 0.0002922 | 0.019 | 0.0001021 | | | | |
| PF | B234 | 442 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.165 | 0.016 | 0.144 | 0.004 | COMB575 | 0.014 | COMB37 | 0.017 |
| PF | B234 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.023 | 0.003 | 0.02 | 0 | | | | |
| PF | B240 | 443 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.417 | 0.031 | 0.375 | 0.011 | COMB575 | 0.062 | COMB5 | 0.01 |
| PF | B240 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.067 | 0.005 | 0.061 | 0.0001671 | | | | |
| PF | B220 | 432 | Beam | BOX300x200x12t | No Message | COMB575(C) | 0.402 | 0.029 | 0.362 | 0.011 | COMB575 | 0.062 | COMB22 | 0.014 |
| PF | B220 | | Beam | BOX300x200x12t | No Message | COMB578(T) | 0.061 | 0.005 | 0.056 | 0.0002343 | | | | |
| PF | B245 | 444 | Beam | BOX400x200x12t | No Message | COMB575(C) | 0.842 | 0.05 | 0.675 | 0.117 | COMB575 | 0.058 | COMB575 | 0.058 |
| PF | B245 | | Beam | BOX400x200x12t | No Message | COMB578(T) | 0.167 | 0.01 | 0.13 | 0.028 | | | | |
| PF | B246 | 445 | Beam | BOX400x200x12t | No Message | COMB576(C) | 0.031 | 0.001 | 0.023 | 0.007 | COMB575 | 0.028 | COMB14 | 0.021 |
| PF | B246 | | Beam | BOX400x200x12t | No Message | COMB575(T) | 0.149 | 0.014 | 0.11 | 0.025 | | | | |

TABLE: Steel Frame Summary - AISC LRFD 93

| Story | Label | Unique Name | Design Type | Design Section | Status | PMM Combo | PMM Ratio | P Ratio | M Major Ratio | M Minor Ratio | V Major Combo | V Major Ratio | V Minor Combo | V Minor Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | B1 | 71 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.207 | 0.002 | 0.205 | 0 | COMB183 | 0.022 | COMB39 | 0 |
| PF | B1 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.08 | 0.000301 | 0.08 | 0 | | | | |
| PF | B2 | 72 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.403 | 0.006 | 0.396 | 0 | COMB183 | 0.032 | COMB186 | 0 |
| PF | B2 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.157 | 0.001 | 0.156 | 0 | | | | |
| PF | B3 | 73 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.384 | 0.006 | 0.378 | 0 | COMB183 | 0.032 | COMB39 | 0 |
| PF | B3 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.152 | 0.001 | 0.152 | 0 | | | | |
| PF | B4 | 74 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.274 | 0.002 | 0.272 | 0 | COMB183 | 0.028 | COMB35 | 0 |
| PF | B4 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.112 | 0.0003345 | 0.112 | 0 | | | | |
| PF | B5 | 75 | Beam | BOX200x150x4.5t | No Message | COMB39(C) | 0.241 | 0.001 | 0.24 | 0.0002739 | COMB39 | 0.028 | COMB39 | 0 |
| PF | B5 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.049 | 0 | 0.049 | 0 | | | | |
| PF | B6 | 76 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.376 | 0.005 | 0.371 | 0 | COMB183 | 0.031 | COMB39 | 0 |
| PF | B6 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.145 | 0.0004901 | 0.145 | 0 | | | | |
| PF | B7 | 77 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.391 | 0.005 | 0.386 | 0 | COMB183 | 0.032 | COMB39 | 0 |
| PF | B7 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.152 | 0.0004473 | 0.151 | 0 | | | | |
| PF | B8 | 78 | Beam | BOX200x150x4.5t | No Message | COMB35(C) | 0.167 | 0.004 | 0.163 | 0.0002706 | COMB183 | 0.033 | COMB79 | 0 |
| PF | B8 | | Beam | BOX200x150x4.5t | No Message | COMB183(T) | 0.22 | 0 | 0.22 | 0 | | | | |
| PF | B9 | 79 | Beam | BOX200x150x4.5t | No Message | COMB39(C) | 0.143 | 0.006 | 0.136 | 0.001 | COMB183 | 0.019 | COMB39 | 0 |
| PF | B9 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.055 | 0.0002278 | 0.055 | 0 | | | | |
| PF | B10 | 80 | Beam | BOX200x150x4.5t | No Message | COMB39(C) | 0.131 | 0.003 | 0.128 | 0 | COMB183 | 0.018 | COMB35 | 0 |
| PF | B10 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.042 | 0.0002887 | 0.042 | 0 | | | | |
| PF | B11 | 81 | Beam | BOX200x150x4.5t | No Message | COMB39(C) | 0.121 | 0.001 | 0.119 | 0.0002723 | COMB183 | 0.015 | COMB39 | 0 |
| PF | B11 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.028 | 0.0001332 | 0.028 | 0 | | | | |
| PF | B12 | 90 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.257 | 0.001 | 0.256 | 0 | COMB183 | 0.041 | COMB79 | 0 |
| PF | B12 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.121 | 0.0002597 | 0.12 | 0 | | | | |
| PF | B14 | 83 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.277 | 0.004 | 0.273 | 0 | COMB183 | 0.027 | COMB39 | 0 |
| PF | B14 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.106 | 0.0003734 | 0.105 | 0 | | | | |
| PF | B15 | 84 | Beam | BOX200x150x4.5t | No Message | COMB39(C) | 0.158 | 0.001 | 0.156 | 0.0001223 | COMB183 | 0.02 | COMB35 | 0 |
| PF | B15 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.064 | 0 | 0.064 | 0 | | | | |
| PF | B16 | 86 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.317 | 0.001 | 0.316 | 0 | COMB183 | 0.053 | COMB35 | 0 |
| PF | B16 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.149 | 0.0003622 | 0.148 | 0 | | | | |
| PF | B17 | 87 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.339 | 0.002 | 0.338 | 0.000105 | COMB183 | 0.057 | COMB183 | 0 |
| PF | B17 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.167 | 0.0004076 | 0.166 | 0 | | | | |
| PF | B18 | 88 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.449 | 0.002 | 0.447 | 0 | COMB183 | 0.072 | COMB35 | 0 |
| PF | B18 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.22 | 0.0004605 | 0.219 | 0 | | | | |
| PF | B19 | 95 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.263 | 0.0004637 | 0.262 | 0 | COMB183 | 0.054 | COMB39 | 0 |
| PF | B19 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.126 | 0.0001771 | 0.126 | 0 | | | | |
| PF | B20 | 91 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.274 | 0.001 | 0.273 | 0.0001305 | COMB183 | 0.053 | COMB39 | 0 |
| PF | B20 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.135 | 0.0002118 | 0.135 | 0 | | | | |
| PF | B21 | 92 | Beam | BOX200x150x4.5t | No Message | COMB35(C) | 0.184 | 0.0001835 | 0.183 | 0 | COMB183 | 0.033 | COMB35 | 0 |
| PF | B21 | | Beam | BOX200x150x4.5t | No Message | COMB183(T) | 0.12 | 0 | 0.12 | 0 | | | | |
| PF | B23 | 94 | Beam | BOX200x150x4.5t | No Message | COMB35(C) | 0.176 | 0.001 | 0.175 | 0.0001609 | COMB183 | 0.033 | COMB35 | 0 |
| PF | B23 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.046 | 0 | 0.046 | 0 | | | | |
| PF | B25 | 82 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.251 | 0.001 | 0.25 | 0.0001908 | COMB183 | 0.031 | COMB35 | 0.0001143 |
| PF | B25 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.103 | 0.0001508 | 0.102 | 0 | | | | |
| PF | B26 | 97 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.345 | 0.002 | 0.343 | 0.00012 | COMB183 | 0.057 | COMB183 | 0 |
| PF | B26 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.167 | 0.0003992 | 0.167 | 0 | | | | |
| PF | B27 | 93 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.236 | 0.001 | 0.234 | 0 | COMB183 | 0.046 | COMB39 | 0 |
| PF | B27 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.112 | 0.0003016 | 0.112 | 0 | | | | |
| PF | B29 | 96 | Beam | BOX200x150x4.5t | No Message | COMB35(C) | 0.144 | 0.0004151 | 0.143 | 0.0003702 | COMB183 | 0.042 | COMB39 | 0 |
| PF | B29 | | Beam | BOX200x150x4.5t | No Message | COMB183(T) | 0.238 | 0 | 0.238 | 0.0001392 | | | | |
| PF | B30 | 98 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.338 | 0.001 | 0.336 | 0 | COMB183 | 0.058 | COMB39 | 0 |
| PF | B30 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.167 | 0.0003415 | 0.167 | 0 | | | | |
| PF | B31 | 99 | Beam | BOX200x150x4.5t | No Message | COMB183(C) | 0.233 | 0.001 | 0.232 | 0 | COMB183 | 0.044 | COMB39 | 0 |
| PF | B31 | | Beam | BOX200x150x4.5t | No Message | COMB186(T) | 0.112 | 0.0003006 | 0.111 | 0 | | | | |

# 附件七

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$RCAD_ASCO  DRAWING_FLOORS_COLUMNS
FORMAT= 3
5
1.0 5000.0  15000.0
1

$RCAD_ASCO  COLUMN-LINE
"C1"   (COL. LINE : C2)
+-----------------------------------------------------------------------+
| FL:1MF      (50.0  )x  (80.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  40.0 <COMB1>                |                |   o 12-#7  [ 46.5]    |
|       1.00 %[C2]                 |                |       0-#0            |
|                                  |                |   X- 3( 0)            |
| Maj.Av/S=  0.457<15-3>[C2]       |                |   Y- 5( 0)            |
|            0.217<29>[C2]         |                |   Hoop: 1-#4          |
| Min.Av/S=  0.263<15-3>[C2]       |                |   Ties: 2-#4 @ 10 - 10  |
|            0.119<575>[C2]        +----------------+         1-#4          |
+-----------------------------------------------------------------------+
| FL:1F       (50.0  )x  (80.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  63.7 <COMB65>               |                |   o 18-#7  [ 69.7]    |
|       1.59 %[C2]                 |                |       0-#0            |
|                                  |                |   X- 4( 0)            |
| Maj.Av/S=  0.457<15-3>[C2]       |                |   Y- 7( 0)            |
|            0.084<131 Max>[C2]    |                |   Hoop: 1-#4          |
| Min.Av/S=  0.263<15-3>[C2]       |                |   Ties: 2-#4 @ 10 - 10  |
|            0.091<51>[C2]         +----------------+         2-#4          |
+-----------------------------------------------------------------------+
$RCAD_ASCO  COLUMN-LINE
"C2"   (COL. LINE : C21)
+-----------------------------------------------------------------------+
| FL:1MF      (50.0  )x  (80.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  62.0 <COMB575>              |                |   o 18-#7  [ 69.7]    |
|       1.55 %[C21]                |                |       0-#0            |
|                                  |                |   X- 4( 0)            |
| Maj.Av/S=  0.457<15-3>[C21]      |                |   Y- 7( 0)            |
|            0.126<11>[C21]        |                |   Hoop: 1-#4          |
| Min.Av/S=  0.263<15-3>[C21]      |                |   Ties: 2-#4 @ 10 - 10  |
|            0.207<575>[C21]       +----------------+         2-#4          |
+-----------------------------------------------------------------------+
| FL:1F       (50.0  )x  (80.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  49.1 <COMB191>              |                |   o 14-#7  [ 54.2]    |
|       1.23 %[C21]                |                |       0-#0            |
|                                  |                |   X- 4( 0)            |
| Maj.Av/S=  0.457<15-3>[C21]      |                |   Y- 5( 0)            |
|            0.083<5>[C21]         |                |   Hoop: 1-#4          |
| Min.Av/S=  0.263<15-3>[C21]      |                |   Ties: 2-#4 @ 10 - 10  |
|            0.084<60>[C21]        +----------------+         2-#4          |
+-----------------------------------------------------------------------+
$RCAD_ASCO  COLUMN-LINE
"C3"   (COL. LINE : C12)
+-----------------------------------------------------------------------+
| FL:1MF      (80.0  )x  (50.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  40.0 <COMB1>                |                |   o 12-#7  [ 46.5]    |
|       1.00 %[C12]                |                |       0-#0            |
|                                  |                |   X- 5( 0)            |
| Maj.Av/S=  0.263<15-3>[C12]      |                |   Y- 3( 0)            |
|            0.048<5>[C12]         |                |   Hoop: 1-#4          |
| Min.Av/S=  0.460<36>[C12]        |                |   Ties: 1-#4 @ 10 - 10  |
|            0.460<36>[C12]        +----------------+         2-#4          |
+-----------------------------------------------------------------------+
| FL:1F       (80.0  )x  (50.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  64.4 <COMB11>               |                |   o 18-#7  [ 69.7]    |
|       1.61 %[C12]                |                |       0-#0            |
|                                  |                |   X- 7( 0)            |
| Maj.Av/S=  0.263<15-3>[C12]      |                |   Y- 4( 0)            |
|            0.105<15>[C12]        |                |   Hoop: 1-#4          |
| Min.Av/S=  0.457<15-3>[C12]      |                |   Ties: 2-#4 @ 10 - 10  |
|            0.128<36>[C12]        +----------------+         2-#4          |
+-----------------------------------------------------------------------+
$RCAD_ASCO  COLUMN-LINE
"C4"   (COL. LINE : C13)
+-----------------------------------------------------------------------+
| FL:1F       (75.0  )x  (50.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  62.4 <COMB36>               |                |   o 18-#7  [ 69.7]    |
|       1.66 %[C13]                |                |       0-#0            |
|                                  |                |   X- 7( 0)            |
| Maj.Av/S=  0.271<15-3>[C13]      |                |   Y- 4( 0)            |
|            0.082<140>[C13]       |                |   Hoop: 1-#4          |
| Min.Av/S=  0.437<15-3>[C13]      |                |   Ties: 2-#4 @ 10 - 10  |
|            0.128<36>[C13]        +----------------+         2-#4          |
+-----------------------------------------------------------------------+
$RCAD_ASCO  COLUMN-LINE
"C5"   (COL. LINE : C17)
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+-----------------------------------------------------------------------+
| FL:1F       (60.0  )x  (40.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  33.5 <COMB268 Max>          |                |   o 10-#7  [ 38.7]    |
|       1.40 %[C17]                |                |       0-#0            |
|                                  |                |   X- 4( 0)            |
| Maj.Av/S=  0.272<15-3>[C17]      |                |   Y- 3( 0)            |
|            0.057<150>[C17]       |                |   Hoop: 1-#4          |
| Min.Av/S=  0.449<15-3>[C17]      |                |   Ties: 1-#4 @ 10 - 10  |
|            0.053<51>[C17]        +----------------+         2-#4          |
+-----------------------------------------------------------------------+
$RCAD_ASCO  COLUMN-LINE
"C6"   (COL. LINE : C25,C26,C27,C28,C29)
+-----------------------------------------------------------------------+
| FL:1F       (40.0  )x  (60.0  )   Fc'=280    Fy=4200   Fyh=4200     RECT   |
|                                  +----------------+                    |
| As=  49.2 <COMB135 Max>          |                |   o 14-#7  [ 54.2]    |
|       2.05 %[C27]                |                |       0-#0            |
|                                  |                |   X- 3( 0)            |
| Maj.Av/S=  0.449<15-3>[C25]      |                |   Y- 6( 0)            |
|            0.053<14>[C25]        |                |   Hoop: 1-#4          |
| Min.Av/S=  0.272<15-3>[C25]      |                |   Ties: 2-#4 @ 10 - 10  |
|            0.090<135 Max>[C27]   +----------------+         1-#4          |
+-----------------------------------------------------------------------+
$RCAD_ASCO  COLUMN-LINE
"C7"   (COL. LINE : C30,C31,C35,C36,C37,C38,C39)
+-----------------------------------------------------------------------+
| FL:1F       (55.0 )x(0.0  )    Fc'=281    Fy=4200   Fyh=4200              |
|                                                                         |
| As=  53.7 <COMB135 Max>                                o 14-#7  [ 54.2]  |
|      2.26 %%                                            X-14( 0)        |
|                                                         Y- 0( 0)        |
| Maj.Av/S= 53.735                                       Hoop: 1-#4       |
|           53.735                                       Ties:**-#4 @ 10 - 10 |
| Min.Av/S= 53.735                                           **-#4        |
|           53.735                                                        |
+-----------------------------------------------------------------------+
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TABLE: Steel Frame Summary - AISC LRFD 93

| Story | Label | Unique Name | Design Type | Design Section | Status | PMM Combo | PMM Ratio | P Ratio | M Major Ratio | M Minor Ratio | V Major Combo | V Major Ratio | V Minor Combo | V Minor Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | C1 | 1 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.488 | 0.014 | 0.138 | 0.336 | COMB575 | 0.137 | COMB575 | 0.338 |
| PF | C1 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.12 | 0.002 | 0.034 | 0.085 | | | | |
| PF | C2 | 2 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.454 | 0.019 | 0.239 | 0.196 | COMB575 | 0.235 | COMB575 | 0.196 |
| PF | C2 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.087 | 0.004 | 0.056 | 0.027 | | | | |
| PF | C3 | 3 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.316 | 0.036 | 0.239 | 0.041 | COMB575 | 0.24 | COMB22 | 0.095 |
| PF | C3 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.069 | 0.005 | 0.042 | 0.021 | | | | |
| PF | C4 | 4 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.294 | 0.032 | 0.235 | 0.027 | COMB575 | 0.232 | COMB22 | 0.094 |
| PF | C4 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.046 | 0.004 | 0.035 | 0.007 | | | | |
| PF | C5 | 5 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.299 | 0.036 | 0.238 | 0.025 | COMB575 | 0.238 | COMB22 | 0.099 |
| PF | C5 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.052 | 0.005 | 0.043 | 0.004 | | | | |
| PF | C6 | 6 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.398 | 0.019 | 0.223 | 0.156 | COMB575 | 0.22 | COMB19 | 0.159 |
| PF | C6 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.076 | 0.005 | 0.053 | 0.018 | | | | |
| PF | C7 | 7 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.524 | 0.015 | 0.142 | 0.367 | COMB575 | 0.142 | COMB575 | 0.369 |
| PF | C7 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.123 | 0.001 | 0.037 | 0.085 | | | | |
| PF | C8 | 8 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.006 | 0.002 | 0.002 | 0.001 | COMB575 | 0.001 | COMB575 | 0.001 |
| PF | C8 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.002 | 0.001 | 0.001 | 0.001 | | | | |
| PF | C10 | 10 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.008 | 0.002 | 0.003 | 0.004 | COMB575 | 0.001 | COMB575 | 0.002 |
| PF | C10 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.003 | 0.001 | 0.001 | 0.001 | | | | |
| PF | C12 | 12 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.01 | 0.002 | 0.003 | 0.005 | COMB575 | 0.002 | COMB575 | 0.002 |
| PF | C12 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.004 | 0.001 | 0.001 | 0.002 | | | | |
| PF | C15 | 15 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.487 | 0.012 | 0.119 | 0.356 | COMB575 | 0.119 | COMB575 | 0.361 |
| PF | C15 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.108 | 0.001 | 0.031 | 0.076 | | | | |
| PF | C16 | 16 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.006 | 0.002 | 0.003 | 0.002 | COMB575 | 0.001 | COMB575 | 0.001 |
| PF | C16 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.002 | 0.001 | 0.001 | 0.001 | | | | |
| PF | C18 | 18 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.482 | 0.01 | 0.12 | 0.353 | COMB575 | 0.12 | COMB575 | 0.358 |
| PF | C18 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.11 | 0.001 | 0.029 | 0.081 | | | | |
| PF | C20 | 20 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.327 | 0.022 | 0.212 | 0.093 | COMB575 | 0.209 | COMB14 | 0.122 |
| PF | C20 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.06 | 0.005 | 0.051 | 0.004 | | | | |
| PF | C21 | 21 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.295 | 0.036 | 0.257 | 0.002 | COMB575 | 0.256 | COMB11 | 0.08 |
| PF | C21 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.067 | 0.005 | 0.049 | 0.013 | | | | |
| PF | C22 | 22 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.314 | 0.032 | 0.27 | 0.011 | COMB575 | 0.266 | COMB5 | 0.08 |
| PF | C22 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.052 | 0.004 | 0.044 | 0.003 | | | | |
| PF | C23 | 23 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.324 | 0.035 | 0.256 | 0.033 | COMB575 | 0.254 | COMB5 | 0.098 |
| PF | C23 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.059 | 0.005 | 0.049 | 0.005 | | | | |
| PF | C24 | 24 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.364 | 0.021 | 0.204 | 0.139 | COMB575 | 0.201 | COMB5 | 0.15 |
| PF | C24 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.066 | 0.005 | 0.049 | 0.012 | | | | |
| PF | C33 | 282 | Column | CBOX450x200x14t | No Message | COMB36(C) | 0.153 | 0.019 | 0.053 | 0.081 | COMB43 | 0.057 | COMB575 | 0.09 |
| PF | C33 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.03 | 0.004 | 0.003 | 0.023 | | | | |
| PF | C34 | 283 | Column | CBOX450x200x14t | No Message | COMB43(C) | 0.156 | 0.018 | 0.055 | 0.083 | COMB43 | 0.054 | COMB575 | 0.093 |
| PF | C34 | | Column | CBOX450x200x14t | No Message | COMB176(T) | 0.068 | 0.0002355 | 0.054 | 0.014 | | | | |
| PF | C40 | 294 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.214 | 0.024 | 0.031 | 0.159 | COMB51 | 0.058 | COMB575 | 0.158 |
| PF | C40 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.064 | 0.004 | 0.015 | 0.045 | | | | |
| PF | C41 | 295 | Column | CBOX450x200x14t | No Message | COMB575(C) | 0.249 | 0.023 | 0.051 | 0.175 | COMB61 | 0.067 | COMB575 | 0.175 |
| PF | C41 | | Column | CBOX450x200x14t | No Message | COMB578(T) | 0.072 | 0.003 | 0.02 | 0.049 | | | | |

TABLE: Steel Frame Summary - AISC LRFD 93

| Story | Label | Unique Name | Design Type | Design Section | Status | PMM Combo | PMM Ratio | P Ratio | M Major Ratio | M Minor Ratio | V Major Combo | V Major Ratio | V Minor Combo | V Minor Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PF | C1 | 31 | Column | PIPE267.4x8t | No Message | COMB39(C) | 0.149 | 0.006 | 0.028 | 0.14 | COMB35 | 0.01 | COMB39 | 0.013 |
| PF | C1 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.017 | 0.001 | 0.016 | 0.001 | | | | |
| PF | C2 | 32 | Column | PIPE267.4x8t | No Message | COMB39(C) | 0.168 | 0.009 | 0.039 | 0.154 | COMB35 | 0.014 | COMB39 | 0.016 |
| PF | C2 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.054 | 0.003 | 0.042 | 0.029 | | | | |
| PF | C3 | 33 | Column | PIPE267.4x8t | No Message | COMB39(C) | 0.146 | 0.018 | 0.044 | 0.12 | COMB35 | 0.014 | COMB39 | 0.012 |
| PF | C3 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.054 | 0.006 | 0.021 | 0.043 | | | | |
| PF | C4 | 34 | Column | PIPE267.4x8t | No Message | COMB183(C) | 0.147 | 0.043 | 0.01 | 0.104 | COMB35 | 0.011 | COMB39 | 0.011 |
| PF | C4 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.057 | 0.006 | 0.004 | 0.051 | | | | |
| PF | C5 | 35 | Column | PIPE267.4x8t | No Message | COMB183(C) | 0.152 | 0.043 | 0.005 | 0.109 | COMB35 | 0.011 | COMB183 | 0.011 |
| PF | C5 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.06 | 0.006 | 0.003 | 0.053 | | | | |
| PF | C6 | 36 | Column | PIPE267.4x8t | No Message | COMB35(C) | 0.133 | 0.013 | 0.114 | 0.038 | COMB35 | 0.013 | COMB39 | 0.011 |
| PF | C6 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.056 | 0.007 | 0.012 | 0.047 | | | | |
| PF | C7 | 37 | Column | PIPE267.4x8t | No Message | COMB183(C) | 0.146 | 0.023 | 0.058 | 0.108 | COMB35 | 0.015 | COMB39 | 0.011 |
| PF | C7 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.066 | 0.006 | 0.026 | 0.055 | | | | |
| PF | C8 | 38 | Column | PIPE267.4x8t | No Message | COMB39(C) | 0.133 | 0.023 | 0.031 | 0.106 | COMB35 | 0.009 | COMB39 | 0.012 |
| PF | C8 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.041 | 0.004 | 0.037 | 0.0004391 | | | | |
| PF | C9 | 39 | Column | PIPE267.4x8t | No Message | COMB35(C) | 0.111 | 0.006 | 0.095 | 0.044 | COMB35 | 0.011 | COMB39 | 0.01 |
| PF | C9 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.019 | 0.002 | 0.013 | 0.012 | | | | |
| PF | C10 | 40 | Column | PIPE267.4x8t | No Message | COMB35(C) | 0.125 | 0.008 | 0.109 | 0.043 | COMB35 | 0.013 | COMB39 | 0.011 |
| PF | C10 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.028 | 0.005 | 0.016 | 0.016 | | | | |
| PF | C11 | 41 | Column | PIPE267.4x8t | No Message | COMB35(C) | 0.122 | 0.01 | 0.1 | 0.049 | COMB36 | 0.011 | COMB39 | 0.01 |
| PF | C11 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.017 | 0.007 | 0.009 | 0.002 | | | | |
| PF | C12 | 42 | Column | PIPE267.4x8t | No Message | COMB35(C) | 0.122 | 0.009 | 0.096 | 0.059 | COMB35 | 0.01 | COMB39 | 0.012 |
| PF | C12 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.033 | 0.004 | 0.016 | 0.023 | | | | |
| PF | C13 | 43 | Column | PIPE267.4x8t | No Message | COMB39(C) | 0.127 | 0.008 | 0.044 | 0.111 | COMB35 | 0.011 | COMB39 | 0.014 |
| PF | C13 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.039 | 0.004 | 0.023 | 0.027 | | | | |
| PF | C14 | 44 | Column | PIPE267.4x8t | No Message | COMB39(C) | 0.106 | 0.005 | 0.051 | 0.088 | COMB35 | 0.007 | COMB39 | 0.009 |
| PF | C14 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.01 | 0.001 | 0.007 | 0.006 | | | | |
| PF | C15 | 45 | Column | PIPE267.4x8t | No Message | COMB35(C) | 0.128 | 0.006 | 0.109 | 0.055 | COMB35 | 0.012 | COMB39 | 0.008 |
| PF | C15 | | Column | PIPE267.4x8t | No Message | COMB186(T) | 0.039 | 0.002 | 0.031 | 0.022 | | | | |

# 附件八

# 鋼筋混凝土樓板設計

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| fc'= | 280 | kg/cm² | | fy= | 2800 | kg/cm² | (#3及以下) |
| vc = | 8.87 | kg/cm² | | fy= | 4200 | kg/cm² | (#6及以上) |
| ds'= | 3.0 | cm | | fy= | 5000 | kg/cm² | (WIRE MESH) |
| dl'= | 4.0 | cm | | Bw= | 35.0 | cm | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | $W_D$= | 2.50 | T/m² | $W_L$= | 0.23 | T/m² | Wu= | 3.891 | T/m² | | | |
| FS1 | Ls= | 5.15 | m | $L_L$= | 5.75 | m | vu/φ= | 1.82 | kg/cm² | | | |
| | T= | 40.0 | cm | N= | 1 | | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 4.98 | T-M | As= | 5.39 | 3.02 | cm² | | | #4@15 | OK | |
| | +Mu= | 3.74 | T-M | As= | 4.03 | 2.26 | cm² | | | #4@15 | OK | |
| 長向= | -Mu= | 4.23 | T-M | As= | 4.70 | 2.63 | cm² | | | #4@15 | OK | |
| | +Mu= | 3.17 | T-M | As= | 3.52 | 1.97 | cm² | | | #4@15 | OK | |
| 1F | $W_D$= | 0.56 | T/m² | $W_L$= | 0.50 | T/m² | Wu= | 1.634 | T/m² | | | |
| S1 | Ls= | 5.15 | m | $L_L$= | 5.75 | m | vu/φ= | 2.65 | kg/cm² | | | |
| | T= | 15.0 | cm | N= | 1 | | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 2.09 | T-M | As= | 7.17 | 4.01 | cm² | | | #4@15 | OK | |
| | +Mu= | 1.57 | T-M | As= | 5.33 | 2.98 | cm² | | | #4@15 | OK | |
| 長向= | -Mu= | 1.78 | T-M | As= | 6.65 | 3.72 | cm² | | | #4@15 | OK | |
| | +Mu= | 1.33 | T-M | As= | 4.94 | 2.76 | cm² | | | #4@15 | OK | |
| 1F | $W_D$= | 0.68 | T/m² | $W_L$= | 0.50 | T/m² | Wu= | 1.802 | T/m² | | | |
| S2 | Ls= | 4.70 | m | $L_L$= | 7.30 | m | vu/φ= | 2.15 | kg/cm² | | | |
| | T= | 20.0 | cm | N= | 1 | | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 2.61 | T-M | As= | 6.23 | 3.49 | cm² | | | #4@15 | OK | |
| | +Mu= | 1.96 | T-M | As= | 4.64 | 2.60 | cm² | | | #4@15 | OK | |
| 長向= | -Mu= | 1.63 | T-M | As= | 4.11 | 2.30 | cm² | | | #4@15 | OK | |
| | +Mu= | 1.22 | T-M | As= | 3.07 | 1.72 | cm² | | | #4@15 | OK | |
| 1F | $W_D$= | 0.68 | T/m² | $W_L$= | 1.00 | T/m² | Wu= | 2.652 | T/m² | | | |
| Sd | Ls= | 2.25 | m | $L_L$= | 3.95 | m | vu/φ= | 1.28 | kg/cm² | | | |
| | T= | 20.0 | cm | N= | 1 | | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 0.97 | T-M | As= | 2.28 | 1.28 | cm² | | | #4@10 | OK | |
| | +Mu= | 0.73 | T-M | As= | 1.71 | 0.96 | cm² | | | #4@10 | OK | |
| 長向= | -Mu= | 0.55 | T-M | As= | 1.37 | 0.77 | cm² | | | #4@10 | OK | |
| | +Mu= | 0.41 | T-M | As= | 1.03 | 0.58 | cm² | | | #4@10 | OK | |





# 鋼筋混凝土樓板設計

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | $W_D$= | 0.56 | T/m² | $W_L$= | 0.20 | T/m² | Wu= | 1.124 | T/m² | | | |
| CS1 | Ls= | 0.80 | m | $L_L$= | 11.00 | m | vu/φ= | 2.12 | kg/cm² | | | |
| | T= | 15.0 | cm | PD= | 1 | T/m | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 1.40 | T-M | As= | 4.72 | 2.65 | cm² | | | #4@10 | OK | |
| | +Mu= | 0.00 | T-M | As= | 0.00 | 0.00 | cm² | | | #3@20 | OK | |
| 長向= | -Mu= | 0.00 | T-M | As= | 0.00 | 0.00 | cm² | | | #3@20 | OK | |
| | +Mu= | 0.00 | T-M | As= | 0.00 | 0.00 | cm² | | | #3@20 | OK | |
| 1MF | $W_D$= | 0.56 | T/m² | $W_L$= | 0.10 | T/m² | Wu= | 0.954 | T/m² | | | |
| RS1 | Ls= | 5.50 | m | $L_L$= | 5.75 | m | vu/φ= | 1.60 | kg/cm² | | | |
| | T= | 15.0 | cm | N= | 1 | | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 1.29 | T-M | As= | 4.34 | 2.43 | cm² | | | #4@15 | OK | |
| | +Mu= | 0.96 | T-M | As= | 3.24 | 1.81 | cm² | | | #4@15 | OK | |
| 長向= | -Mu= | 1.18 | T-M | As= | 4.37 | 2.45 | cm² | | | #4@15 | OK | |
| | +Mu= | 0.89 | T-M | As= | 3.26 | 1.82 | cm² | | | #4@15 | OK | |
| 1MF | $W_D$= | 0.68 | T/m² | $W_L$= | 0.10 | T/m² | Wu= | 1.122 | T/m² | | | |
| RS2 | Ls= | 5.10 | m | $L_L$= | 7.70 | m | vu/φ= | 1.46 | kg/cm² | | | |
| | T= | 20.0 | cm | N= | 1 | | | | | | | |
| | | | | | | | | | | ST | | |
| 短向= | -Mu= | 1.88 | T-M | As= | 4.45 | 2.49 | cm² | | | #4@15 | OK | |
| | +Mu= | 1.41 | T-M | As= | 3.33 | 1.86 | cm² | | | #4@15 | OK | |
| 長向= | -Mu= | 1.20 | T-M | As= | 3.00 | 1.68 | cm² | | | #4@15 | OK | |
| | +Mu= | 0.90 | T-M | As= | 2.24 | 1.26 | cm² | | | #4@15 | OK | |

# 附件九

***** 獨立基礎設計 ***** F1

| | | | | | |
|---|---|---|---|---|---|
| Cb= | 50 cm | fc'= | 280 kgf/cm$^2$ | Qa,net= | 9 t／m$^2$ |
| Cd= | 50 cm | fy = | 4200 kgf/cm$^2$ | T = | 30 cm |
| PD= | 2.4 t | PL = | 0.96 t | d' = | 8.5 cm |

※ 檢核基礎版面積 :

Areq= (PD+PL)／Qa = 0.4 m$^2$

長邊 X 短邊

USE 150 X 150 cm > Areq -OK.-

※ 計算設計承載力 Qu :

Qu= (1.4PD+1.7PL)／A = 2.22 t／m$^2$

※ 檢核基礎版厚度 :

穿孔剪力:

d = 21.50 cm Lo = 286.00 cm

Vu = Qu(A-(Cb+d)(Cd+d)) = 3.86 t

$\varphi$Vc= 0.85×1.06$\sqrt{fc'}$×Lo×d= 92.71 t -OK.-

梁式剪力:

A'= L(0.5(B-Cd)-d) = 0.43 m$^2$

Vu = Qu(A') = 0.95 t

$\varphi$Vc= 0.85×0.53$\sqrt{fc'}$×B×d = 24.31 t -OK.-

※ 設計鋼筋量 :

長向 :

M = 0.5(Qu)[0.5(L-Cb)]$^2$= 0.28 t-m／m

As = 0.46 cm$^2$/m

USE # 4 @ 20 -OK.-

短向 :

M = 0.5(Qu)[0.5(B-Cd)]$^2$= 0.28 t-m／m

As = 0.46 cm$^2$/m

USE # 4 @ 20 -OK.-

***** 偏心獨立基礎設計 ***** F1

| | | | | | |
|---|---|---|---|---|---|
| Cb= | 50 cm | fc'= | 280 kgf/cm$^2$ | Qa,net= | 9 t／m$^2$ |
| Cd= | 50 cm | fy = | 4200 kgf/cm$^2$ | T = | 30 cm |
| PD= | 2.4 t | PL = | 0.91 t | d' = | 8.5 cm |

※ 檢核基礎版面積 :

Areq= (PD+PL)／Qa = 0.4 m$^2$

長邊 X 短邊

USE 150 X 150 cm > Areq -OK.-

※ 計算設計承載力 Qu :

Qu= (1.4PD+1.7PL)／A = 2.18 t／m$^2$

※ 檢核基礎版厚度 :

穿孔剪力:

d = 21.50 cm Lo = 286.00 cm

Vu = Qu(A-(Cb+d)(Cd+d)) = 3.79 t

$\varphi$Vc= 0.85×1.06$\sqrt{fc'}$×Lo×d= 92.71 t -OK.-

梁式剪力:

A'= L(0.5(B-Cd)-d) = 0.43 m$^2$

Vu = Qu(A') = 0.93 t

$\varphi$Vc= 0.85×0.53$\sqrt{fc'}$×B×d = 24.31 t -OK.-

※ 設計鋼筋量 :

長向 :

M = 0.5(Qu)[(L-Cb)]$^2$= 0.27 t-m／m

As = 0.45 cm$^2$/m

USE # 4 @ 20 -OK.-

短向 :

M = 0.5(Qu)[0.5(B-Cd)]$^2$= 0.27 t-m／m

As = 0.45 cm$^2$/m

USE # 4 @ 20 -OK.-

Format = simple_T2

```
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
|  -17-1 |FB1      ( 40x150)     |FB2      ( 40x150)     |FB3      ( 40x150)     |FB4      ( 40x150)     |FB5      ( 40x150)     |FB6      ( 40x150)     |
|     1F |84      L=  490        |50|50    L=  575        |50|50    L=  575        |50|50    L=  575        |50|50    L=  575        |52|52    L=  490        |84|
|        |D                      |0|0                    |0|D                      |0|D                      |0|D                      |0|D                      |0|
|    mat |     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|
|    Ast |     8.7     8.6     7.3|     4.7     4.1     3.2|     2.0     2.6     2.5|     2.5     2.6     2.0|     3.4     4.3     4.6|     7.5     9.7    11.5|
|    Asb |    12.1     4.0     7.2|     7.2     0.4     7.0|     6.9     0.4     6.7|     6.6     0.4     6.9|     7.0     0.6     6.6|     6.8     4.4    14.9|
|     Av |   0.033   0.033   0.033|   0.033   0.000   0.033|   0.033   0.000   0.033|   0.033   0.000   0.033|   0.033   0.000   0.033|   0.033   0.033   0.033|
|    Avt |   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|
|  Al/4  |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |
|    Top |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|    Bot |     5#7     3#7     5#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     5#7     3#7     5#7|
|    Str |  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|
|    Web |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
|   13-1 |FB7      ( 40x150)     |FB8      ( 40x150)     |FB14     ( 40x150)     |FB9      ( 40x150)     |B15|FB10     ( 40x150)     |B16|FB11     ( 40x150)     |B17|FB12     ( 40x150)     |B18|
|     1F |82      L=  480        |50|50    L=  575        |50|50    L=  575        |50|50    L=  575        |50|50    L=  575        |50|50    L=  575        |51|51    L=  480        |82|
|        |D                      |0|0                    |0|D                      |0|D                      |0|D                      |0|D                      |0|D                      |0|
|    mat |     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|
|    Ast |    10.0     9.2     6.3|     5.3     4.0     3.2|     2.1     2.6     2.6|     2.5     2.6     2.0|     3.4     3.7     5.0|     6.4     9.9    12.1|
|    Asb |    13.8     5.4     6.6|     7.8     0.5     7.2|     6.8     0.6     6.9|     6.8     0.6     6.8|     7.2     0.7     7.2|     6.2     5.2    15.4|
|     Av |   0.033   0.033   0.033|   0.033   0.000   0.033|   0.033   0.000   0.033|   0.033   0.000   0.033|   0.033   0.000   0.033|   0.033   0.033   0.033|
|    Avt |   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|
|  Al/4  |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |
|    Top |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     4#7|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|    Bot |     5#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     5#7|
|    Str |  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|
|    Web |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
|   -10-1 |FB13     ( 40x150)     |B19|FB14     ( 40x150)     |B37|FB15     ( 40x150)     |B38|FB16     ( 40x150)     |B39|FB17     ( 40x150)     |B40|FB18     ( 40x150)     |B41|
|     1F |55      L=  673        |55|55    L=  579        |55|55    L=  576        |55|55    L=  576        |55|55    L=  579        |55|55    L=  637        |55|
|        |D                      |0|0                    |0|D                      |0|D                      |0|D                      |0|D                      |0|D                      |0|
|    mat |     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|
|    Ast |     5.3     5.4     3.5|     4.4     3.0     0.8|     1.8     3.0     2.1|     2.0     3.0     1.8|     1.0     2.9     4.0|     3.4     6.1     6.2|
|    Asb |     2.1     1.6     4.3|     5.6     1.3     4.0|     4.3     1.5     3.9|     4.0     1.5     4.1|     4.1     1.2     5.2|     3.5     1.7     2.7|
|     Av |   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|
|    Avt |   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|
|  Al/4  |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |
|    Top |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|    Bot |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|
|    Web |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
|   21-1 |FB19     ( 40x150)     |B30|FB20     ( 40x150)     |B31|FB21     ( 40x150)     |B32|FB22     ( 40x150)     |B33|FB23     ( 40x150)     |B34|FB24     ( 40x150)     |B35|
|     1F |64      L=  638        |41|41    L=  587        |40|40    L=  575        |40|40    L=  575        |41|41    L=  587        |43|43    L=  649        |64|
|        |D                      |0|0                    |0|D                      |0|D                      |0|D                      |0|D                      |0|
|    mat |     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|     280    420D    420D|
|    Ast |     5.1     5.3     3.8|     4.6     3.9     1.9|     2.6     3.9     2.6|     2.5     3.9     2.7|     2.0     3.5     3.9|     3.8     6.1     6.2|
|    Asb |     2.0     1.9     4.1|     5.9     1.5     2.8|     3.4     1.6     3.5|     3.4     1.6     3.2|     2.9     1.2     5.4|     3.7     1.8     2.5|
|     Av |   0.000   0.000   0.000|   0.033   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.033|   0.000   0.000   0.000|
|    Avt |   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|   0.000   0.000   0.000|
|  Al/4  |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |           0.00        |
|    Top |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|        |       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|       0       0       0|
|    Bot |     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|  #4820  #4820  #4820|
|    Web |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |           2x 4#4      |
+--------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+-----------------------+
+--------+-----------------------+
|   XX-3 |FB25     ( 40x150)     |B57|
|     1F |60      L=  448        |80|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     4.8     4.7     7.3|
|    Asb |     4.0     1.5     5.5|
|     Av |   0.000   0.000   0.033|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|   XX-1 |FB26     ( 50x250)     |B47|
|     1F |80      L=  478        |75|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     5.2     4.7     5.5|
|    Asb |     4.7     1.8     5.8|
|     Av |   0.000   0.000   0.000|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 10#4     |
+--------+-----------------------+
+--------+-----------------------+
|   XX-4 |FB27     ( 50x250)     |B65|
|     1F |0       L=  478        |0|
|        |-50                    |-50|
|    mat |     280    420D    420D|
|    Ast |     3.3     3.8     3.4|
|    Asb |     1.5     1.5     1.2|
|     Av |   0.000   0.000   0.000|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 10#4     |
+--------+-----------------------+
+--------+-----------------------+
|   XX-5 |FB28     ( 40x150)     |B58|
|     1F |60      L=  448        |80|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     4.3     4.2     6.9|
|    Asb |     4.0     1.5     5.4|
|     Av |   0.000   0.000   0.033|
```



```
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|   XX-7 |FB29     ( 50x250)     |B48|
|     1F |80      L=  478        |75|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     4.9     4.9     5.5|
|    Asb |     4.2     2.1     5.8|
|     Av |   0.000   0.000   0.000|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     3#7     3#7     3#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 10#4     |
+--------+-----------------------+
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|  -67-1 |FG1      ( 40x150)     |B10|
|     1F |54      L=  498        |54|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     4.9     8.4    11.1|
|    Asb |    12.8     2.6     9.4|
|     Av |   0.033   0.033   0.033|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     5#7     3#7     5#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|   YY-3 |FG2      ( 40x150)     |B11|
|     1F |50      L=  770        |50|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     6.0     5.9     6.2|
|    Asb |    13.7     0.0    12.8|
|     Av |   0.033   0.033   0.033|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     5#7     3#7     5#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|   68-1 |FG3      ( 40x150)     |B12|
|     1F |54      L=  531        |54|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     6.0     9.8    11.5|
|    Asb |    12.5     3.4    10.1|
|     Av |   0.033   0.033   0.033|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     5#7     3#7     5#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|   56-3 |FG4      ( 40x150)     |B7|
|     1F |60      L=  287        |60|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     8.9     8.6     6.7|
|    Asb |     6.9     7.0    12.8|
|     Av |   0.000   0.033   0.033|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     5#7     5#7     5#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|  YY-14 |FG5      ( 50x250)     |B8|
|     1F |50      L= 1191        |50|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |    12.8    13.1    12.5|
|    Asb |    11.5     0.0    11.2|
|     Av |   0.042   0.000   0.042|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     4#7     4#7     4#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     4#7     3#7     4#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 6#4      |
+--------+-----------------------+
+--------+-----------------------+
|  -61-1 |FG6      ( 40x150)     |B9|
|     1F |57      L=  332        |57|
|        |D                      |0|
|    mat |     280    420D    420D|
|    Ast |     9.9     9.7     7.1|
|    Asb |     7.2     6.7    13.5|
|     Av |   0.000   0.033   0.033|
|    Avt |   0.000   0.000   0.000|
|  Al/4  |           0.00        |
|    Top |     3#7     3#7     3#7|
|        |       0       0       0|
|        |       0       0       0|
|    Bot |     5#7     5#7     5#7|
|    Str |  #4820  #4820  #4820|
|    Web |           2x 4#4      |
+--------+-----------------------+
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|   -61-2  |FG7      ( 40x150)   B27|
|      1F |46       L=  919      55|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     4.9     8.2     8.1|
|     Asb |     1.6     2.9     3.8|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
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|    YY-1  |FG8      ( 40x150)   B28|
|      1F |40       L=  770      40|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     5.3     6.1     5.5|
|     Asb |     4.8     2.3     4.3|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
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|    56-1  |FG9      ( 40x150)   B29|
|      1F |48       L=  926      48|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     5.4     7.2     7.1|
|     Asb |     1.9     2.4     3.2|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
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|    51-1  |FG10     ( 40x150)   B24|
|      1F |55       L=  754      65|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     7.2     7.5     6.1|
|     Asb |     2.8     3.8     4.5|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|   YY-16  |FG11     ( 50x250)   B25|
|      1F |50       L= 1191      50|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |    12.7    14.9    12.5|
|     Asb |     6.1     3.0     5.7|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     4#7     4#7     4#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 6#4        |
+--------+----------------------+
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|   -49-1  |FG12     ( 40x150)   B26|
|      1F |53       L=  755      67|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     6.2     6.5     5.2|
|     Asb |     2.2     3.3     3.9|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
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|    60-2  |FG13     ( 40x150)   B56|
|      1F |55       L=  396      58|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     3.7     4.2     4.8|
|     Asb |     3.3     1.9     2.8|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|    YY-4  |FG14     ( 40x150)   B36|
|      1F |55       L=  311      80|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     4.5     4.3     5.8|
|     Asb |     3.1     1.2     3.9|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
```



```
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|    YY-6  |FG15     ( 40x150)   B42|
|      1F |55       L=  361      80|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     5.9     5.8     5.1|
|     Asb |     2.6     0.9     2.7|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|    YY-8  |FG16     ( 40x150)   B43|
|      1F |55       L=  390      80|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     6.4     6.1     4.6|
|     Asb |     2.3     0.5     2.6|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|   -65-1  |FG17     ( 40x150)   B55|
|      1F |44       L=  302      55|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     2.9     3.2     3.5|
|     Asb |     2.9     1.7     1.9|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|   YY-13  |FG18     ( 40x150)   B50|
|      1F |80       L=  400      60|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     7.4     6.8     7.1|
|     Asb |     5.5     2.1     4.8|
|      Av |  0.033   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|   YY-11  |FG19     ( 40x150)   B51|
|      1F |80       L=  499      60|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     7.0     9.5     9.5|
|     Asb |     5.0     1.5     3.9|
|      Av |  0.000   0.000   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|    YY-8  |FG20     ( 40x150)   B52|
|      1F |80       L=  510      60|
|         |0                       0|
|     mat |     280    4200    4200|
|     Ast |     6.5     9.7     9.8|
|     Asb |     5.1     0.9     3.7|
|      Av |  0.033   0.033   0.000|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |          2x 4#4        |
+--------+----------------------+
+--------+----------------------+
|   XX-4  |TB1      ( 30x 60)   B117|
|      1F |0        L=  664       0|
|         |-40                  -30|
|     mat |     280    4200    4200|
|     Ast |     3.3     1.3     5.0|
|     Asb |     5.7     0.2     5.2|
|      Av |  0.025   0.000   0.025|
|     Avt |  0.000   0.000   0.000|
|   Al/4  |                0.00   |
|     Top |     3#7     3#7     3#7|
|         |       0       0       0|
|         |       0       0       0|
|     Bot |     3#7     3#7     3#7|
|     Str |  #4@20  #4@20  #4@20|
|     Web |                        |
+--------+----------------------+
+--------+----------------------+
|    YY-4  |TG1      ( 30x 60)   B91|
|      1F |0        L=  882       0|
|         |-40                  -30|
```

| | | | |
|---|---|---|---|
| mat | 280 | 4200 | 4200 |
| Ast | 13.8 | 1.5 | 10.4 |
| Asb | 13.1 | 0.6 | 12.9 |
| Av | 0.055 | 0.025 | 0.051 |
| Avt | 0.000 | 0.000 | 0.000 |
| Al/4 | | 0.00 | |
| Top | 3#7 | 3#7 | 3#7 |
| | 2#7 | 0 | 0 |
| | 2#7 | 0 | 2#7 |
| Bot | 3#7 | 3#7 | 3#7 |
| Str | #4@20 | #4@20 | #4@20 |
| Web | | | |

# 附件十

# 基礎錨錠螺栓設計(LRFD)

**柱編號：** SC1

**節點編號：** 32

**一.設計資料：**

1.螺栓材質= A307

( Fv= 1.68 $t/cm^2$ )

2.全部螺栓數量 $N_v$= 4 支

3.螺栓直徑 D= 30 mm

,螺栓標稱段面積 $A_b$= 7.07 $cm^2$

4.最外層抗拉螺栓數量 $N_{t1}$= 2 支

5.柱基板寬度 $L_{pl}$= 40 cm

6.第二排螺栓$N_{t2}$= 0 支

7.第二排螺栓距離$L_2$= -28 cm

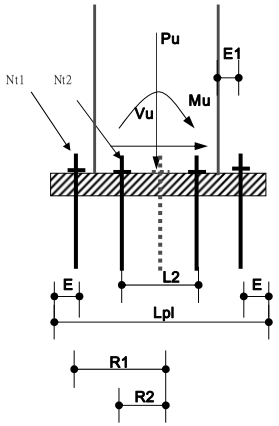
8.柱寬度B= 26 cm

9.柱基板厚度t1= 1.6 cm

10.柱基鈑強度Fy= 2.4 $t/cm^2$

11.螺栓邊距 E= 6 cm

12.鋼柱與螺栓距離E1= 1 cm




**二.載重資料：**

**考量放大地震力係數=max(極限層剪力檢討比值,1.4Fu)**

**=1.4Fu = 1.4*2.5 = 3.5**

**故設計載重之地震力項加乘3.5之放大地震力係數**

設計載重如下: (載重組合 COMB58

1.設計軸力 $P_u$= 0.08 t **+:for ten -:for comp**

2.設計彎矩 $M_u$= 4.24 t-m

3.設計剪力 $V_u$= 1.52 t

**三.螺栓應力檢核：**

1.剪應力檢核

(1)Fv:

Fv = 1.68 $t/cm^2$

φ= 0.75

φFv= 1.26 $t/cm^2$

(2)設計剪應力fv

fv=Vu / (Nv×Ab)= 0.05 ≦ φFv **Fv < φFv (OK)**

2.撓曲應力檢核:

(1)Ft:

Ft =4.13-2.5fv= 3.20 $t/cm^2$

φ= 0.75

φFt= 2.40 $t/cm^2$

(2)設計拉應力 $f_t$

$R_1$ = 14 cm

$R_2$ = -14 cm

$S_t$ =2×($N_{t1}$×$A_b$×$R_1^2$+$N_{t2}$×$A_b$×$R_2^2$) / $R_1$=

395.841 $cm^3$

$f_t$=$M_u$ / $S_t$+$P_u$ / ($N_t$×$A_b$)= 1.07 $t/cm^2$ **Ft < φFt (OK)**

**四.基鈑應力檢核：**

1.剪應力檢核

Fv = 1.44 $t/cm^2$

φ= 0.75

φFv= 1.08 $t/cm^2$

$f_v$=(Nt×$A_b$×$f_t$) / (Lp1×t)= 0.24 $t/cm^2$ **Fv < φFv (OK)**

2.撓曲應力檢核:

Mn =Fy×S= 0.41 t-m

φ= 0.9

φMn= 0.37 t-m

Mu =(Nt×$A_b$×$f_t$×E1)= 0.15 t-m **Mu < φMn (OK)**

3.加勁肢檢核

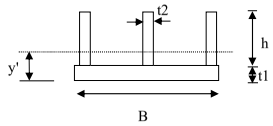
柱底鈑厚 t1= 1.6 cm

加勁鈑厚 t2= 1 cm

加勁鈑數N= 1 片

柱基鈑寬Lp1= 40 cm

加勁鈑高h= 20 cm




底板面積A1= 64 $cm^2$

加勁板面積A2= 20 $cm^2$

底鈑 I1= 13.65 $cm^4$

底鈑 I2= 666.67 $cm^4$

形心高y'= 3.37 cm

$I_{all}$= 2458 $cm^4$

St= 134.83 $cm^3$

Sb= 728.98 $cm^3$

M= 15.172 t-cm

φMn,t= 2.912 t-m **>Mu OK!**

φMn,b= 15.746 t-m **>Mu OK!**

# 基礎錨錠螺栓設計(LRFD)

柱編號： SC2

節點編號： 3

**一.設計資料：**

1.螺栓材質= A307

( Fv= 1.68 $t/cm^2$ )

2.全部螺栓數量 $N_v$= 12 支

3.螺栓直徑 D= 30 mm

,螺栓標稱段面積 $A_b$= 7.07 $cm^2$

4.最外層抗拉螺栓數量 $N_{t1}$= 5 支

5.柱基板寬度 $L_{pl}$= 65 cm

6.第二排螺栓$N_{t2}$= 2 支

7.第二排螺栓距離$L_2$= 35 cm

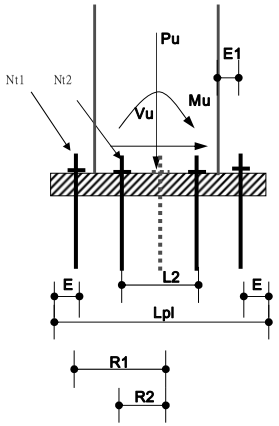
8.柱寬度B= 45 cm

9.柱基板厚度t1= 2 cm

10.柱基鈑強度Fy= 3.3 $t/cm^2$

11.螺栓邊距 E= 5 cm

12.鋼柱與螺栓距離E1= 5 cm




**二.載重資料：**

**考量放大地震力係數=max(極限層剪力檢討比值,1.4Fu)**

**=1.4Fu = 1.4*2.5 = 3.5**

**故設計載重之地震力項加乘3.5之放大地震力係數**

設計載重如下: (載重組合 COMB57

1.設計軸力 $P_u$= 0.00 t **+:for ten -:for comp**

2.設計彎矩 $M_u$= 0.00 t-m

3.設計剪力 $V_u$= 21.86 t

**三.螺栓應力檢核：**

1.剪應力檢核

(1)Fv:

Fv = 1.68 $t/cm^2$

φ= 0.75

φFv= 1.26 $t/cm^2$

(2)設計剪應力fv

fv=Vu / (Nv×Ab)= 0.26 ≦ φFv **Fv < φFv (OK)**

2.撓曲應力檢核:

(1)Ft:

Ft =4.13-2.5fv= 3.20 $t/cm^2$

φ= 0.75

φFt= 2.40 $t/cm^2$

(2)設計拉應力 $f_t$

$R_1$ = 27.5 cm

$R_2$ = 17.5 cm

$S_t$ =2×($N_{t1}$×$A_b$×$R_1^2$+$N_{t2}$×$A_b$×$R_2^2$) / $R_1$=

2258.73 $cm^3$

$f_t$=$M_u$ / $S_t$+$P_u$ / ($N_t$×$A_b$)= 0.00 $t/cm^2$ **Ft < φFt (OK)**

**四.基鈑應力檢核：**

1.剪應力檢核

Fv = 1.98 $t/cm^2$

φ= 0.75

φFv= 1.49 $t/cm^2$

$f_v$=(Nt×$A_b$×$f_t$) / (Lp1×t)= 0.00 $t/cm^2$ **Fv < φFv (OK)**

2.撓曲應力檢核:

Mn =Fy×S= 1.43 t-m

φ= 0.9

φMn= 1.29 t-m

Mu =(Nt×$A_b$×$f_t$×E1)= 0.00 t-m **Mu < φMn (OK)**

3.加勁肢檢核

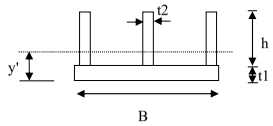
柱底鈑厚 t1= 2 cm

加勁鈑厚 t2= 1 cm

加勁鈑數N= 4 片

柱基鈑寬Lp1= 65 cm

加勁鈑高h= 20 cm




底板面積A1= 130 $cm^2$

加勁板面積A2= 80 $cm^2$

底鈑 I1= 43.33 $cm^4$

底鈑 I2= 2666.67 $cm^4$

形心高y'= 5.19 cm

$I_{all}$= 8702 $cm^4$

St= 517.71 $cm^3$

Sb= 1676.61 $cm^3$

M= 0.000 t-cm

φMn,t= 15.376 t-m **>Mu OK!**

φMn,b= 49.795 t-m **>Mu OK!**