

新竹縣原住民族地區建築標準圖說

7-SC-2-4

結構計算書

Job No. 2208A

2021/1



楊長榮

簽證建築師：楊長榮建築師事務所

樂力結構技師事務所

LÓO-LÀ Tstructure engineering studio

T e l : 0 6 - 2 0 3 3 1 7 3

M o b i l e : 0 9 2 1 - 2 7 9 2 1 4

M a i l : r 9 4 5 2 1 2 2 5 @ n t u . e d u . t w

7 1 0 - 0 4 6 台南市永康區永平街771號



目錄

- 1.0 建築概要 / Introduction**
- 2.0 結構系統說明 / Structural System Description**
- 3.0 結構材料 / Structural Materials**
- 4.0 設計載重 / Design Loadings**
 - 4.1 靜載重及活載重 / Dead Loads & Live Loads
 - 4.2 設計地震力及分析結果 / Seismic Loads & Analysis result
 - 4.3 設計風力 / Wind Loads
 - 4.4 載重組合 / Loading Combination
- 5.0 工作載重結構行為限制 / Serviceability Performance**
- 6.0 設計規範 / Design Code**
- 7.0 結構分析程序 / Summary of Structural Analysis Procedures**
 - 7.1 結構模型 / Structural Modeling
 - 7.2 RC 樑結構設計
 - 7.3 RC 柱結構設計
- 9.0 基礎設計 / Foundation Design**
 - 9.1 基礎設計說明
 - 9.2 基礎分析
 - 9.3 基礎結構設計

附錄	參考結構圖說
	ETABS 輸入檔
	ETABS 輸出檔
	SAFE 輸入檔
	SAFE 輸出檔



建築結構設計基本資料表

一、構造種類

- 鋼筋混凝土構造
- 鋼骨構造
- 鋼骨鋼筋混凝土構造
- 其他

二、結構系統之規劃及分析

- 韌性抗彎矩構架系統
- 二元系統
- 其他
具對角斜撐之輕型構架

三、結構材料

1. 混凝土
 $f_c' = 280 \text{ kgf/cm}^2$
2. 鋼筋
#4(D13)以上： $f_y = 4200 \text{ kgf/cm}^2$
(CNS 560 A2006 SD420W)
#3(D10)以下： $f_y = 2800 \text{ kgf/cm}^2$
(CNS 560 A2006 SD280W)
3. 鋼結構
SGC440 3400 kgf/cm^2

活載重

LL		kgf/m ²
1F	住宅	200
2F	住宅	200
PRF	屋頂	60

四、水平側向力、風力檢核分析

(一) 地震力

1. 新竹縣五峰鄉
2. $S_S^D = 0.7$, $S_1^D = 0.4$
 $S_S^M = 0.9$, $S_1^M = 0.5$
3. $I = 1.10$
4. $R_x = 3$, $R_y = 3$
5. $\alpha_y = 1.0$
6. 建築物基本震動週期 $T_x = 0.05 h_n^{3/4}$
 $T_y = 0.05 h_n^{3/4}$
7. $V_x / W = 0.300$
 $V_y / W = 0.291$

(二) 風力

基本設計風速每秒 32.5 公尺區

$I = 1.1$, 地況: **B**

五、層間最大變位與層間變位角

(X-Dir.)

1. 最大層間變位角 = 0.142‰
2. 最大位移 = 0.147cm

(Y-Dir.)

1. 最大層間變位角 = 0.112‰
2. 最大位移 = 0.102cm

七、結構設計

- ASD
- USD
- LRFD

八、基礎設計

- 獨立基腳或聯合基腳
- 筏式基礎
- 樁基礎
- 其他
版式基礎



九、基礎開挖擋土支保措施

- 斜坡明挖
- 預壘排樁
- 地下連續壁
- 其他



1.0 建築概要

本案為標準圖說，工程可能位於新竹縣五峰鄉/尖石鄉/關西鎮，為地上 2 樓之輕型鋼構造，樓高約 7.395 公尺。

建築基地：新竹縣五峰鄉/尖石鄉/關西鎮

建築規模：地上 2 層

開挖深度：0.4m



2.0 結構系統說明

地震力分析：法規靜力分析

基本資料：

建築種類：鋼筋混凝土構造(RC)\鋼骨構造(SS)

結構系統：其他\具對角斜撐之輕型構架

樓層概述：

樓層	高度(cm)	用途
1F	320	住宅
2F	419.5	住宅

樓版厚度：

基礎版 40cm RC 版

PRF 彩浪鋼版

開挖方式：

斜坡明挖

分析程式： ETABS V9.5



3.0 結構材料

3.1 混凝土

材料特性:

波松比	0.2
彈性模數(楊式係數)	$15000 \sqrt{fc'}$ kgf/cm ²
線性熱膨脹係數	1.2×10^{-5} 1/ °C
混凝土規定抗壓強度 fc'	同建築結構設計基本資料表
單位重	2400 kgf/m ³

3.2 鋼筋

彈性模數(楊式係數)	2.04×10^6 kgf/cm ²
鋼筋規定降伏強度 fy	同建築結構設計基本資料表
點焊鋼線網	ASTM A706, $F_y=5000$ kgf/cm ²

3.3 結構鋼

材料特性:

波松比	0.3
彈性模數(楊式係數)	2.04×10^6 kgf/cm ²
線性熱膨脹係數	1.2×10^{-5} 1/ °C
標稱降伏應力 fy	同建築結構設計基本資料表
單位重	7850 kgf/m ³

螺栓及焊材

高拉力螺栓	F10T
錨定螺栓	ASTM A307, ASTM A325
焊材	E80xx



4.0 設計載重

4.1 靜載重及活載重

靜載重

PRF

載重種類	數量	單位重	總重
設備管線	1 式	40 kgf/m ²	40 kgf/m ²

外加靜載重(SDL) 40 kgf/m²

2F 室內

載重種類	數量	單位重	總重
鋪面裝修	1 式	40 kgf/m ²	40 kgf/m ²

外加靜載重(SDL) 40 kgf/m²

活載重 (kgf/m²)

同建築結構設計基本資料表

樓層載重資料

樓層	面積(m ²)	重量(tf)	單位重(tf/m ²)
PRF	85.48	4.93	0.058
2F	100.80	9.78	0.097



4.2 設計地震力及分析結果

依據「建築物耐震設計規範及解說，內政部」，設計地震力為：

$$V = \frac{I}{1.4\alpha_y} \left(\frac{S_{aD}}{F_u} \right)_m W$$

式中

$$\left(\frac{S_{aD}}{F_u} \right)_m = \begin{cases} \frac{S_{aD}}{F_u} & \frac{S_{aD}}{F_u} \leq 0.3 \\ 0.52 \frac{S_{aD}}{F_u} + 0.144 & 0.3 < \frac{S_{aD}}{F_u} < 0.8 \\ 0.70 \frac{S_{aD}}{F_u} & \frac{S_{aD}}{F_u} \geq 0.8 \end{cases}$$

S_{aD} 工址設計水平譜加速度係數，為工址水平加速度與重力加速度 g 之比值。

W 建築物全部靜載重。活動隔間應計入 75kg/m^2 之重量；一般倉庫、書庫應計入至少四分之一活載重；水箱、水池等容器，應計入全部內容物之重量。

I 用途係數。

α_y 起始降伏地震力放大倍數，依耐震設計規範第一章第 9 節規定，鋼結構採容許應力法設計可取 1.2，採極限設計法取 1.0。就鋼筋混凝土結構而言，以極限強度設計法可採 1.0。

F_u 結構系統地震力折減係數，依耐震設計規範第二章第 9 節規定。

※本案為一般建築物，由於本案為泛用之標準圖說，設立之位置較廣，考量其變異性用途係數保守採用 1.1。

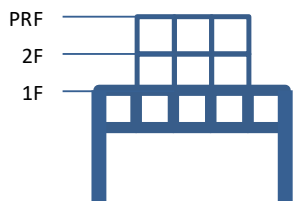


地震力計算詳下表

基地基本資料					斷層資料	
縣市	鄉鎮市區	里	震區種類	地盤種類	附近斷層	距離斷層
新竹縣	五峰鄉	所有里	一般震區	第一類地盤(自行決定地盤種類)	獅潭與神卓山(一般情況)	10(km)

譜加速度係數		近斷層因子		工址放大因子		修正譜加速度係數		分界週期	
S_S^D	0.7	設計	N_a	1	F_a	1	$S_{DS}=F_a \times N_a \times S_S^D$	0.7	$T_0^D=S_{D1}/S_{DS}$
S_1^D	0.4		N_v	1	F_v	1	$S_{D1}=F_v \times N_v \times S_1^D$	0.4	0.571
S_S^M	0.9	最大	N_a	1	F_a	1	$S_{MS}=F_a \times N_a \times S_S^M$	0.9	$T_0^M=S_{M1}/S_{MS}$
S_1^M	0.5		N_v	1	F_v	1	$S_{M1}=F_v \times N_v \times S_1^M$	0.5	0.556

建築基本資料							
屋頂層數	樓層數	地下層數	1F抬高	屋頂高度	建築高度	地下高度	h_n (基面至屋頂)
0 F	2 F	0 F	0(m)	0(m)	7.395(m)	0(m)	7.395(m)



	建築結構系統	
	X方向	Y方向
結構阻尼比	0.02	
結構系統	其他構造	其他構造
T_{code} (法規週期)	$0.05 \times h_n^{3/4} = 0.224(s)$	$0.05 \times h_n^{3/4} = 0.224(s)$
T_{max} (上限週期)	$1.4 \times T_{code} = 0.314(s)$	$1.4 \times T_{code} = 0.314(s)$
I(用途係數)	1.1	
設計規範	鋼構(LRFD)	
α_y	1	

各方向地震力計算		X方向	Y方向
1. 建築結構系統 相關資料	T_{dyna} (動力週期)	0.113(s)	0.09(s)
	T_{design} (設計週期)	0.113(s)	0.09(s)
	R(結構系統韌性容量)	3	3
	R_a (結構系統容許韌性容量)	2.333	2.333



各方向地震力計算		X方向	Y方向
2. 最小設計水平總橫力	S_{aD} (工址設計水平譜加速度)	0.870	0.749
	F_u (系統折減係數)	1.908	1.721
	$(S_{aD}/F_u)_m$	0.381	0.370
	V (最小設計水平總橫力)	0.300	0.291
3. 避免最大考量地震崩塌之設計地震力	S_{aM} (工址最大水平譜加速度)	0.900	0.798
	F_{uM} (系統最大折減係數)	2.236	2.002
	$(S_{aM}/F_{uM})_m$	0.353	0.351
	V_M (最大考量地震水平總橫力)	0.278	0.276
4. 避免中小度地震降伏之設計地震力	V^* (中小度地震水平總橫力)	0.190	0.167
5. 層間相對位移地震力	V_{drift} (層間相對位移地震力)	0.173	0.152

各方向地震力計算		Z方向
6. 垂直地震力	D_{DL+SDL} (垂直自重變位)	0.006(cm)
	T_{ver} (垂直週期) $=2\pi(D_{DL+SDL}/g)^{0.5}$	0.015(s)
	$S_{aD,v}$ (垂直設計譜加速度係數)	0.179
	F_{uv} (垂直地震系統折減係數)	1.121
	$(S_{aD,v}/F_{uv})_m$	0.155
	V_{ZD} (垂直設計地震力)	0.122
	$S_{aM,v}$ (垂直最大加速度係數)	0.217
	$F_{uv,M}$ (垂直最大地震系統折減係數)	1.168
	V_{ZM} (避免最大考量垂直地震崩塌)	0.132
	V_{Z^*} (避免中小度垂直地震降伏)	0.046

地震力統整		X方向	Y方向
1. 水平地震力	$V_{design} = \max(V, V_M, V^*)$	0.300	0.291
2. 層間位移地震力	V_{drift}	0.173	0.152
地震力統整		Z方向	
3. 垂直地震力	$V_{z,Design} = \max(V_{ZD}, V_{ZM}, V_{Z^*})$	0.132	



意外扭矩放大係數

Floor	Load Case	δ_{max} (cm)	δ_{avg} (cm)	$A_x = (\delta_{max} / 1.2 \delta_{avg})^2$	備註
PRF	EXP	0.147(節點 179)	0.144	0.724	
PRF	EYP	0.097(節點 24)	0.089	0.833	
PRF	EXN	0.146(節點 24)	0.143	0.717	
PRF	EYN	0.102(節點 179)	0.089	0.900	
2F	EXP	0.078(節點 179)	0.074	0.769	X 最大值
2F	EYP	0.054(節點 8)	0.049	0.857	
2F	EXN	0.078(節點 16)	0.074	0.764	
2F	EYN	0.056(節點 179)	0.049	0.938	Y 最大值

X 向最大意外扭矩放大係數 A_x 小於 1，故質心偏移比例取 $Ecc=0.05$ 進行分析

Y 向最大意外扭矩放大係數 A_x 小於 1，故質心偏移比例取 $Ecc=0.05$ 進行分析



樓層地震力

(單位 tf)

	EXP	EXP	EYP	EYP	EXN	EXN	EYN	EYN
	VX	VY	VX	VY	VX	VY	VX	VY
PRF	-2.36	0.00	0.00	-2.36	-2.36	0.00	0.00	-2.36
2F	-2.05	0.00	0.00	-2.05	-2.05	0.00	0.00	-2.05
SUM	-4.41	0.00	0.00	-4.41	-4.41	0.00	0.00	-4.41

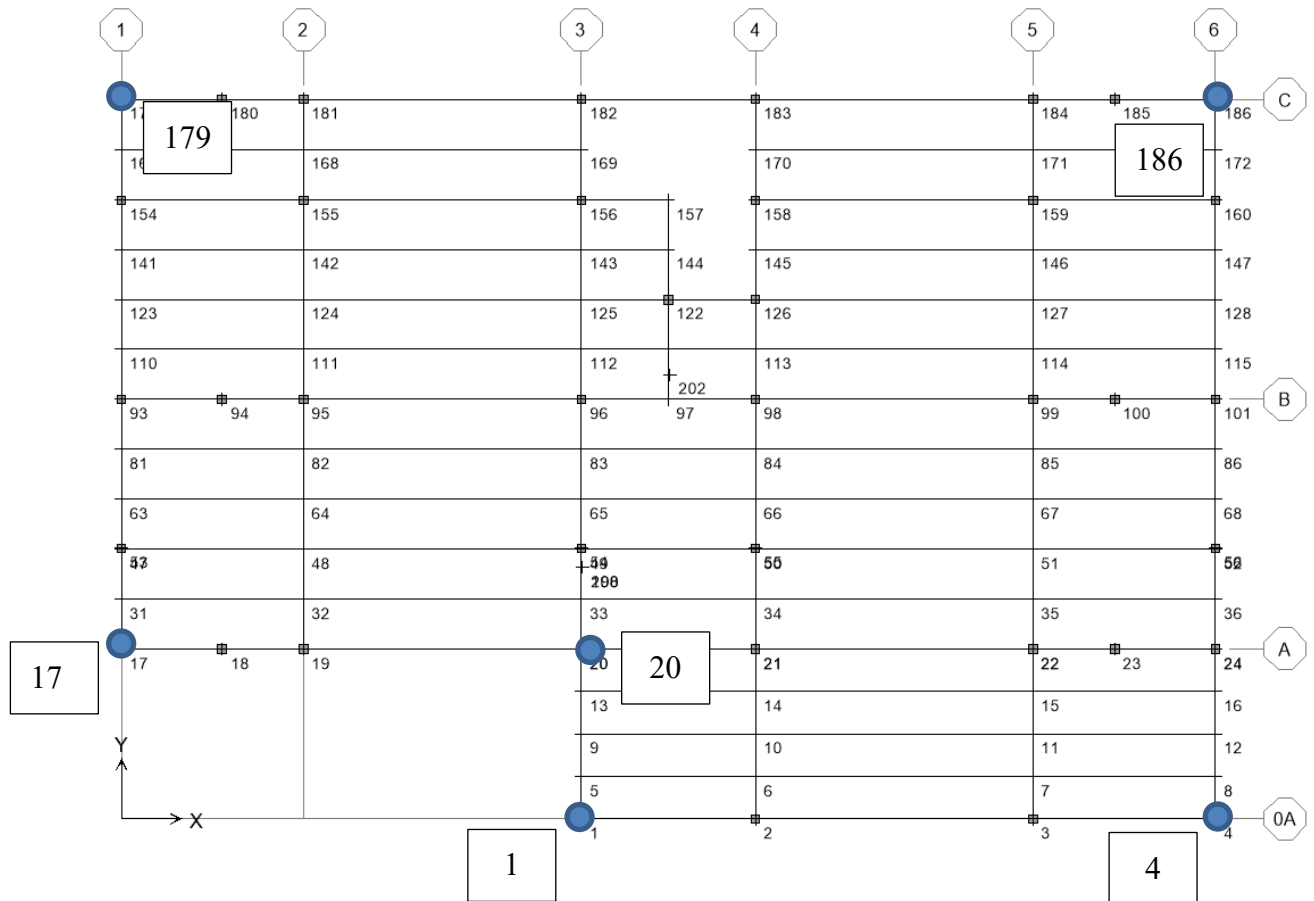
樓層層間變位角

	U _x		U _y	
	EXP	EXN	EYP	EYN
PRF	0.142‰(D33)	0.140‰(D15)	0.083‰(D8)	0.086‰(D46)
2F	0.141‰(D45)	0.141‰(C12)	0.112‰(C4-1)	0.108‰(C1-1)



碰撞距離檢討

依建築物耐震設計規範，為避免地震時所引起的變形造成鄰棟建築物間的相互碰撞，建築物應自留設設計地震力作用下產生位移乘以 $0.6 \times 1.4 \times \alpha_y \times R_a$ 倍之距離。



	節點 17		節點 20		節點 1		節點 4	
	X 向	Y 向	X 向	Y 向	X 向	Y 向	X 向	Y 向
475 年地震 側向位移 (cm)	0.146	0.102	0.146	0.091	0.027	0.051	0.027	0.052
安全 碰撞距離 (cm)	0.286	0.199	0.286	0.179	0.053	0.099	0.053	0.103



	節點 186		節點 179					
	X 向	Y 向	X 向	Y 向				
475 年地震 側向位移 (cm)	0.147	0.097	0.147	0.102				
安全 碰撞距離 (cm)	0.287	0.191	0.287	0.199				

備註：位移放大倍數 X 向為 1.960，Y 向為 1.960



4.3 設計風力

依據”建築物耐風設計規範及解說”，本建築基本設計風速為
每秒 37.5 公尺

封閉式建築主抗風系統屋頂風壓計算

Enclosed Building Main Wind Force Resistance System Design Roof Pressure(TBC2006)

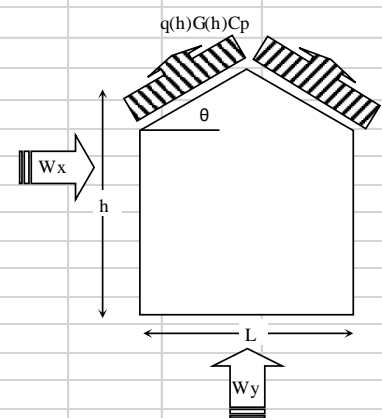
Job: _____ Job No. _____
Made by: JWLI Date: 2004/12/13

1.1 Input data		尺寸	
Exp=	C	V10=	37.5 m/sec
Z=	7.395 m	θ =	17 Degree
T=	0.03 sec	Beta=	0.02
		B=	20 m
		L=	30 m

2.1 Basic Constant	
Exposure=	C
α =	0.15
Zg=	300.00 m
Design wind speed=	37.50 m/sec
Building width=	20.00 m
Ave. roof height=	7.40 m
Do=	0.005
Damping ratio=	0.020

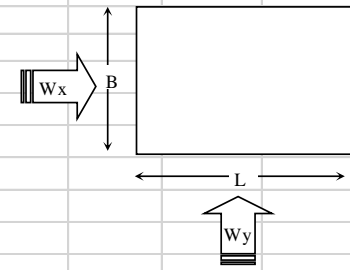
2.2 Wind pressure			
$K(h)=2.774(Z/Zg)^{2\alpha}$	$h>5m$ Average level	=	0.9134
$K(h)=2.774(5/Zg)^{2\alpha}$	$h<5m$	=	0.0000
$q(h)=0.0625*K(z)*(IV_{10}(C))^2$		=	97.14 kg/m ²

2.3 Roof design wind pressure							
Direction	Width	Length	G(h)	Wind ward		Leeward	
				Cp	q(h)G(h)Cp	Cp	q(h)G(h)Cp
Wx	20	30	1.859	-0.46	-83	-0.7	-126
Wy	30	20	1.839	-0.70	-125	-0.7	-125



2.4 Positive pressure under ROOF OVERHANG for main wind force resistance system

Direction	G(h)	Wind ward		Leeward	
		Cp	q(h)G(h)Cp	Cp	q(h)G(h)Cp
Wx	1.859	0.8	144	0.5	90
Wy	1.839	0.8	143	0.5	89



Elevation View

Plan View

	WX	WX	WY	WY
	VX	VY	VX	VY
PRF	-4.50	0.00	0.00	-6.84
2F	-7.93	0.00	0.00	-12.06
SUM	-12.42	0.00	0.00	-18.90

X 向設計風力為 12.42tf，大於 X 向設計地震力 4.41tf
Y 向設計風力為 18.90tf，大於 Y 向設計地震力 4.41tf



4.4 載重組合

DL=Dead load (include member self weight)

LL=Live load

EXP,EXN=Code static seismic load x-direction (± 0.05 offset)

EYP,EYN=Code static seismic load y-direction (± 0.05 offset)

Ez=Code static vertical seismic load

Ex= EXP 、 EXN

Ey= EYP 、 EYN

W=Wind load

設計

1.4DL

1.2DL+1.6LL

1.2DL+1.0LL \pm 1.0Ex \pm 0.3Ez

1.2DL+1.0LL \pm 1.0Ey \pm 0.3Ez

1.2DL+1.0LL \pm 1.0Ez \pm 0.3Ex

1.2DL+1.0LL \pm 1.0Ez \pm 0.3Ey

0.9DL \pm 1.0Ex \pm 0.3Ez

0.9DL \pm 1.0Ey \pm 0.3Ez

0.9DL \pm 1.0Ez \pm 0.3Ex

0.9DL \pm 1.0Ez \pm 0.3Ey

1.2DL+1.0LL \pm 1.6W

0.9DL \pm 1.6W



	DL	SDL	LL	EXP	EYP	EXN	EYN	EZ	WX	WY
02RC01	1.400	1.400								
02RC02	1.200	1.200	1.600							
02RC03	1.200	1.200	1.000	1.000				0.300		
02RC04	1.200	1.200	1.000	1.000				-0.300		
02RC05	1.200	1.200	1.000		1.000			0.300		
02RC06	1.200	1.200	1.000		1.000			-0.300		
02RC07	1.200	1.200	1.000			1.000		0.300		
02RC08	1.200	1.200	1.000			1.000		-0.300		
02RC09	1.200	1.200	1.000				1.000	0.300		
02RC10	1.200	1.200	1.000				1.000	-0.300		
02RC11	1.200	1.200	1.000	-1.000				0.300		
02RC12	1.200	1.200	1.000	-1.000				-0.300		
02RC13	1.200	1.200	1.000		-1.000			0.300		
02RC14	1.200	1.200	1.000		-1.000			-0.300		
02RC15	1.200	1.200	1.000			-1.000		0.300		
02RC16	1.200	1.200	1.000			-1.000		-0.300		
02RC17	1.200	1.200	1.000				-1.000	0.300		
02RC18	1.200	1.200	1.000				-1.000	-0.300		
02RC19	1.200	1.200	1.000	0.300				1.000		
02RC20	1.200	1.200	1.000	0.300				-1.000		
02RC21	1.200	1.200	1.000		0.300			1.000		
02RC22	1.200	1.200	1.000		0.300			-1.000		
02RC23	1.200	1.200	1.000			0.300		1.000		
02RC24	1.200	1.200	1.000			0.300		-1.000		
02RC25	1.200	1.200	1.000				0.300	1.000		
02RC26	1.200	1.200	1.000				0.300	-1.000		
02RC27	1.200	1.200	1.000	-0.300				1.000		
02RC28	1.200	1.200	1.000	-0.300				-1.000		
02RC29	1.200	1.200	1.000		-0.300			1.000		
02RC30	1.200	1.200	1.000		-0.300			-1.000		
02RC31	1.200	1.200	1.000			-0.300		1.000		
02RC32	1.200	1.200	1.000			-0.300		-1.000		
02RC33	1.200	1.200	1.000				-0.300	1.000		
02RC34	1.200	1.200	1.000				-0.300	-1.000		
02RC35	0.900	0.900		1.000				0.300		
02RC36	0.900	0.900		1.000				-0.300		
02RC37	0.900	0.900			1.000			0.300		
02RC38	0.900	0.900			1.000			-0.300		
02RC39	0.900	0.900				1.000		0.300		
02RC40	0.900	0.900				1.000		-0.300		



02RC41	0.900	0.900					1.000	0.300		
02RC42	0.900	0.900					1.000	-0.300		
02RC43	0.900	0.900		-1.000				0.300		
02RC44	0.900	0.900		-1.000				-0.300		
02RC45	0.900	0.900			-1.000			0.300		
02RC46	0.900	0.900			-1.000			-0.300		
02RC47	0.900	0.900				-1.000		0.300		
02RC48	0.900	0.900				-1.000		-0.300		
02RC49	0.900	0.900					-1.000	0.300		
02RC50	0.900	0.900					-1.000	-0.300		
02RC51	0.900	0.900		0.300				1.000		
02RC52	0.900	0.900		0.300				-1.000		
02RC53	0.900	0.900			0.300			1.000		
02RC54	0.900	0.900			0.300			-1.000		
02RC55	0.900	0.900				0.300		1.000		
02RC56	0.900	0.900				0.300		-1.000		
02RC57	0.900	0.900					0.300	1.000		
02RC58	0.900	0.900					0.300	-1.000		
02RC59	0.900	0.900		-0.300				1.000		
02RC60	0.900	0.900		-0.300				-1.000		
02RC61	0.900	0.900			-0.300			1.000		
02RC62	0.900	0.900			-0.300			-1.000		
02RC63	0.900	0.900				-0.300		1.000		
02RC64	0.900	0.900				-0.300		-1.000		
02RC65	0.900	0.900					-0.300	1.000		
02RC66	0.900	0.900					-0.300	-1.000		
02RC67	1.200	1.200	1.000						1.600	
02RC68	1.200	1.200	1.000							1.600
02RC69	1.200	1.200	1.000						-1.600	
02RC70	1.200	1.200	1.000							-1.600
02RC71	0.900	0.900							1.600	
02RC72	0.900	0.900								1.600
02RC73	0.900	0.900							-1.600	
02RC74	0.900	0.900								-1.600



5.0 工作載重結構行為限制

A. 梁變形限制

靜載重加活載重 L/240

活載重 L/360

B. 地震力側向變形角限制

最大變形角 5/1000

C. 結構受風力側向加速度限制

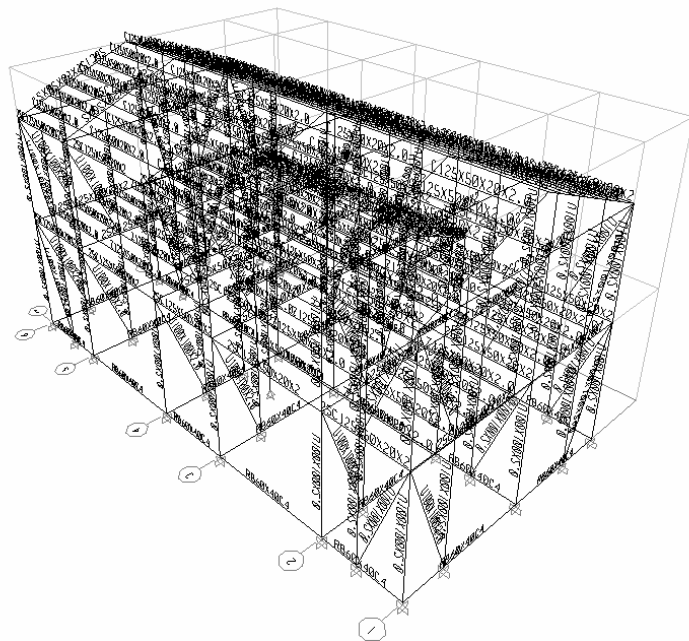
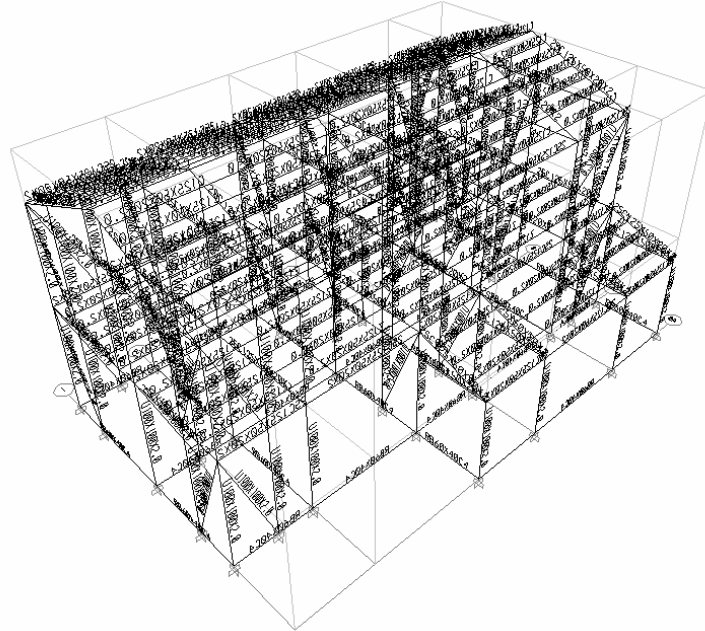
最大加速度 0.005g (0.05 m/sec²)

6.0 設計規範

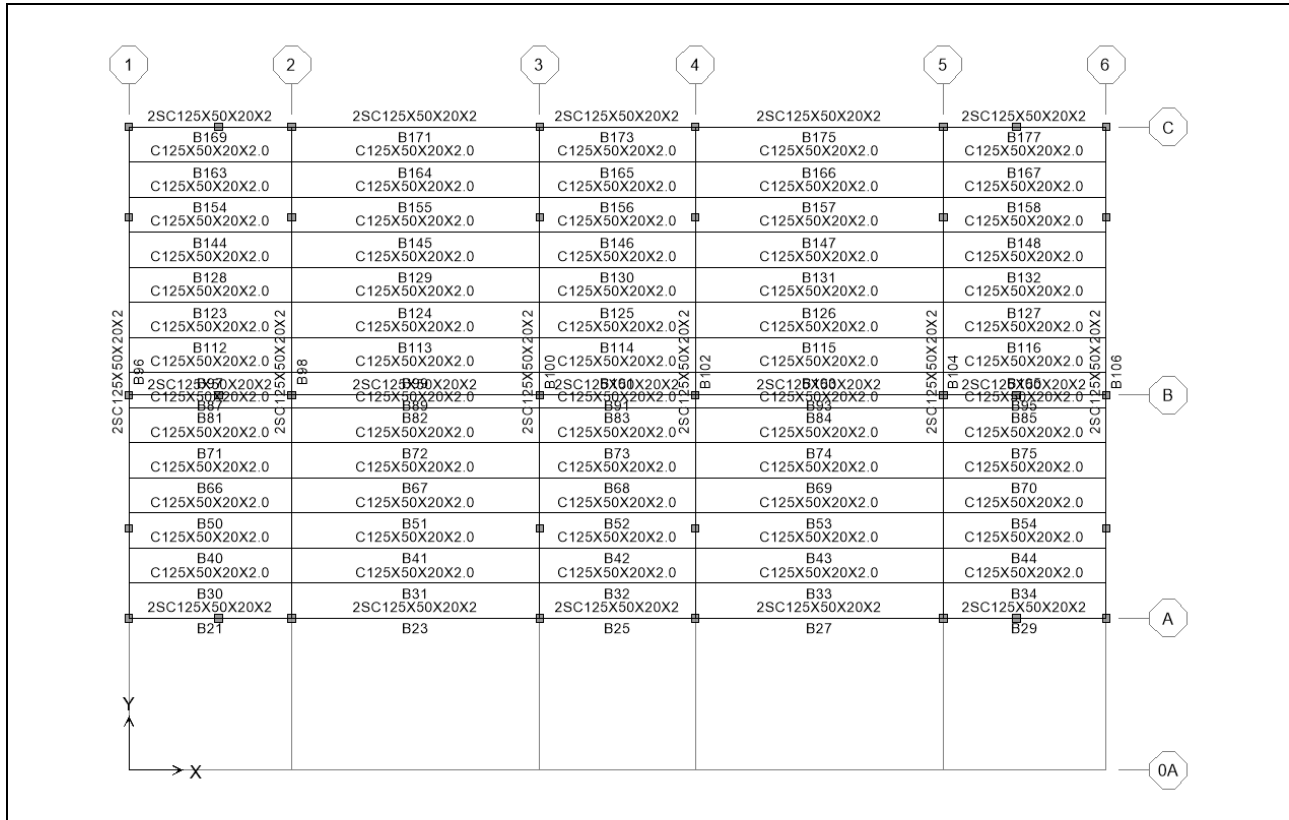
- (1) 建築技術規則，內政部，最新版。
- (2) 建築物耐震設計規範及解說，內政部，2011/07。
- (3) 建築物基礎構造設計規範，內政部，2001/10。
- (4) 混凝土結構設計規範，內政部，2011/07。
- (5) 建築物耐風設計規範及解說，內政部，2017/01。
- (6) 冷軋型鋼構造建築物結構設計規範及解說，內政部，2015/10
- (7) ACI 318-05。

7.0 結構分析程序

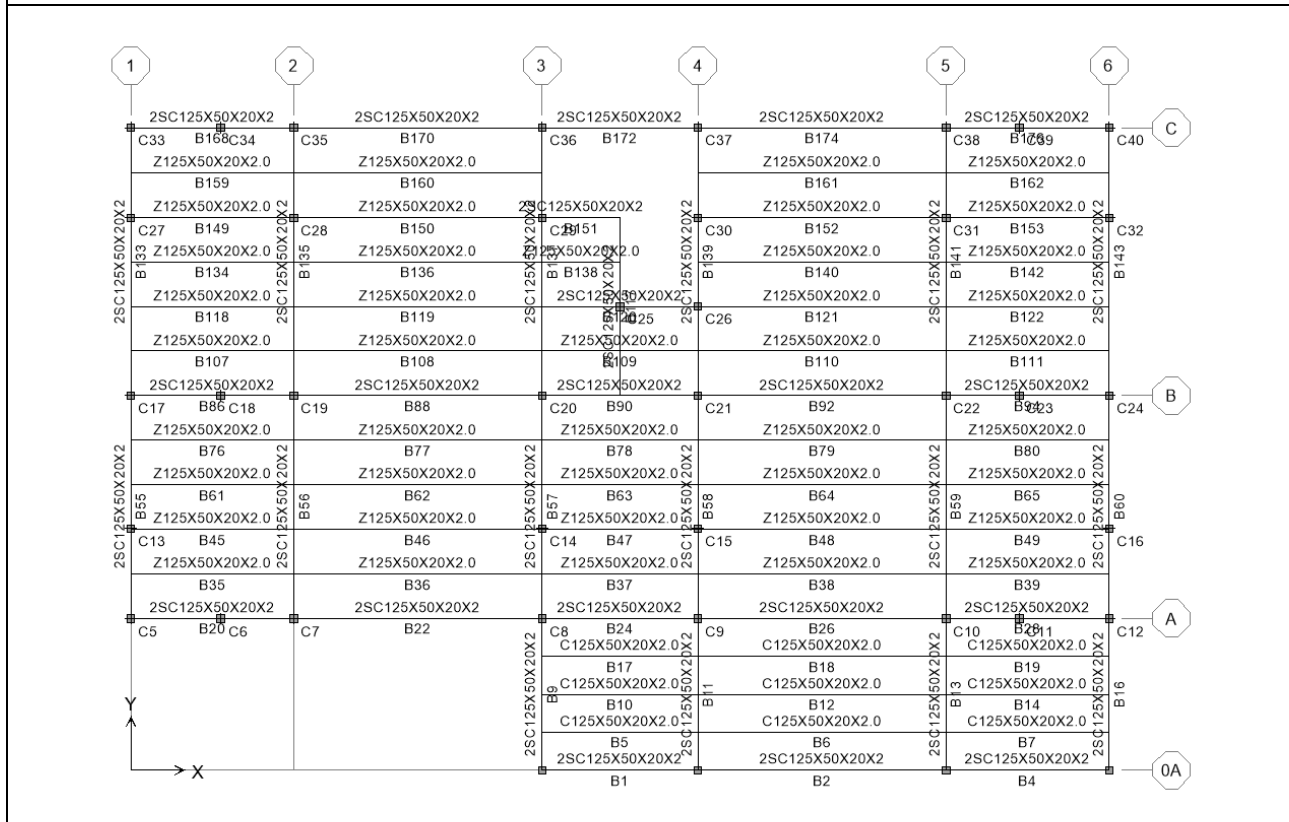
7.1 結構模型



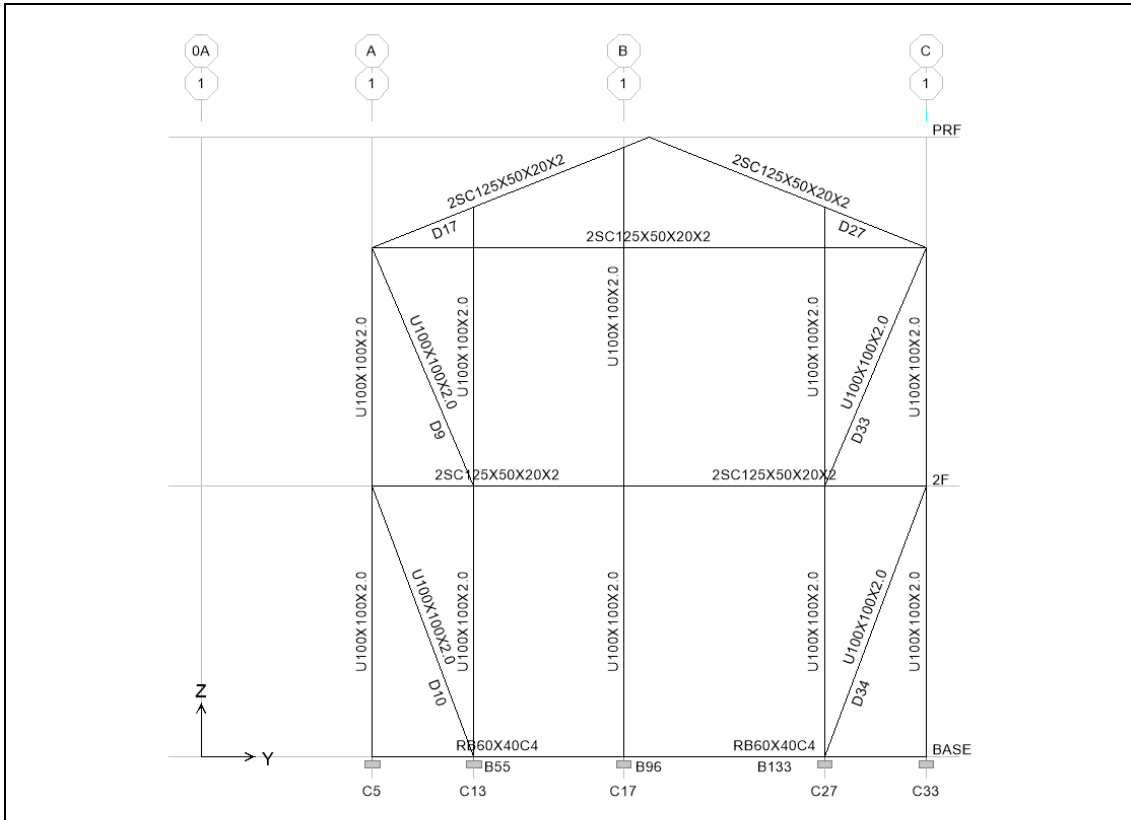
3D view



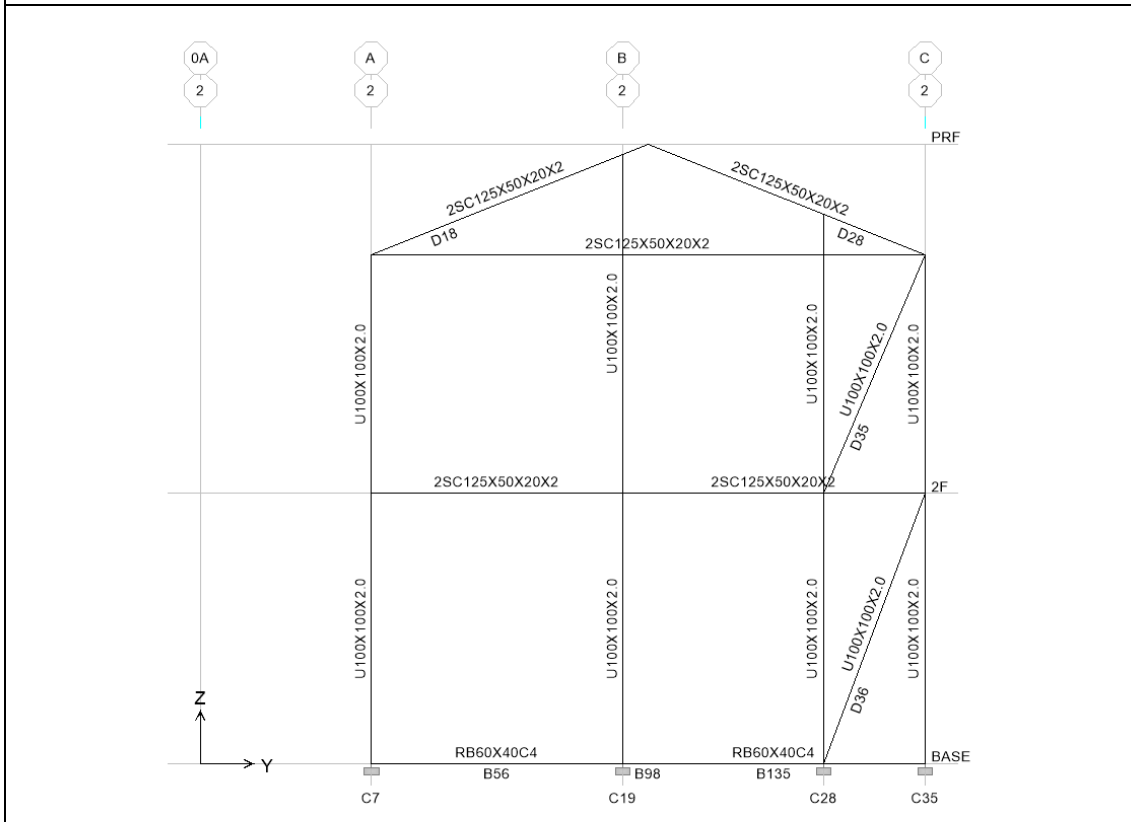
PRF plan



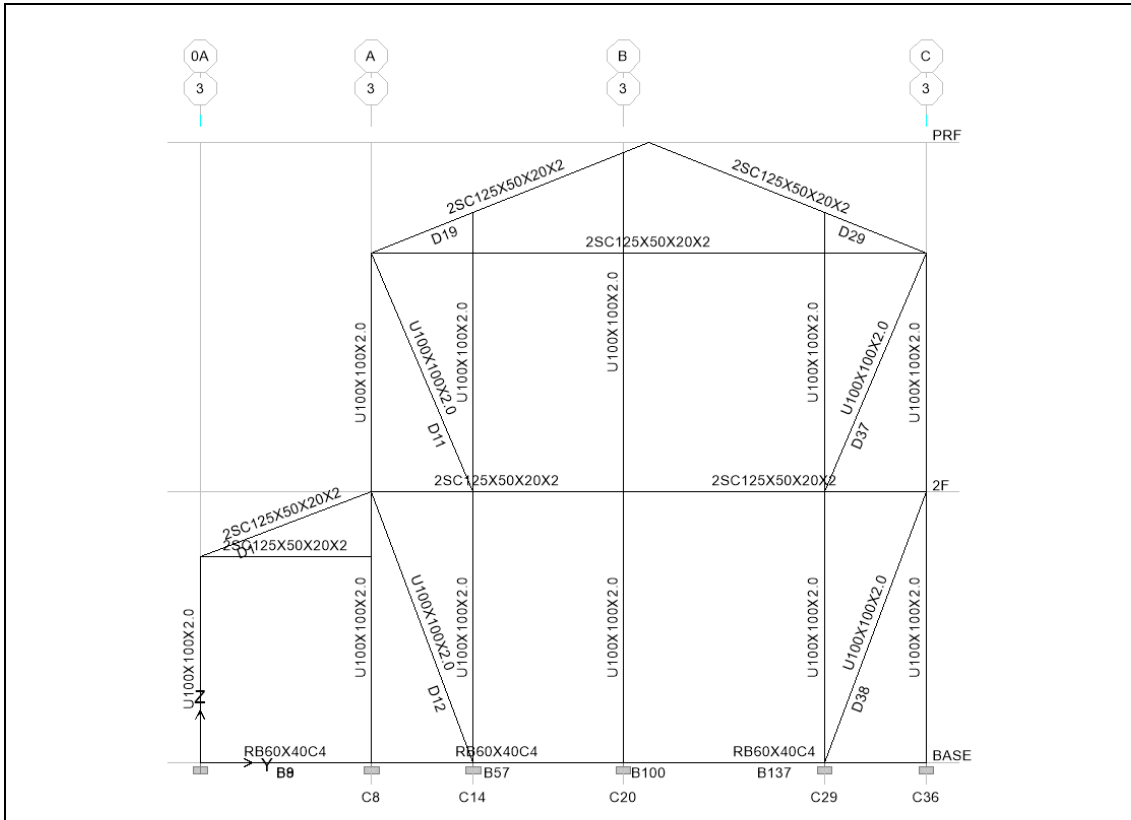
2F plan



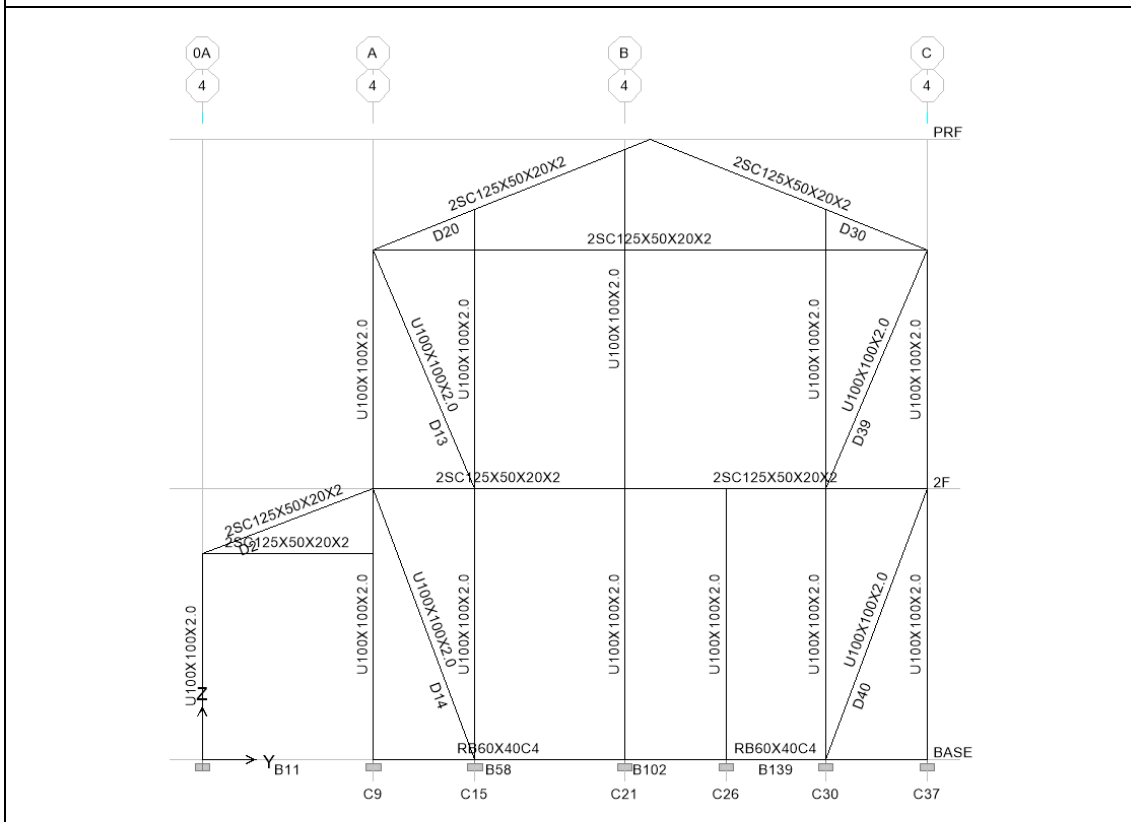
EL Line-1



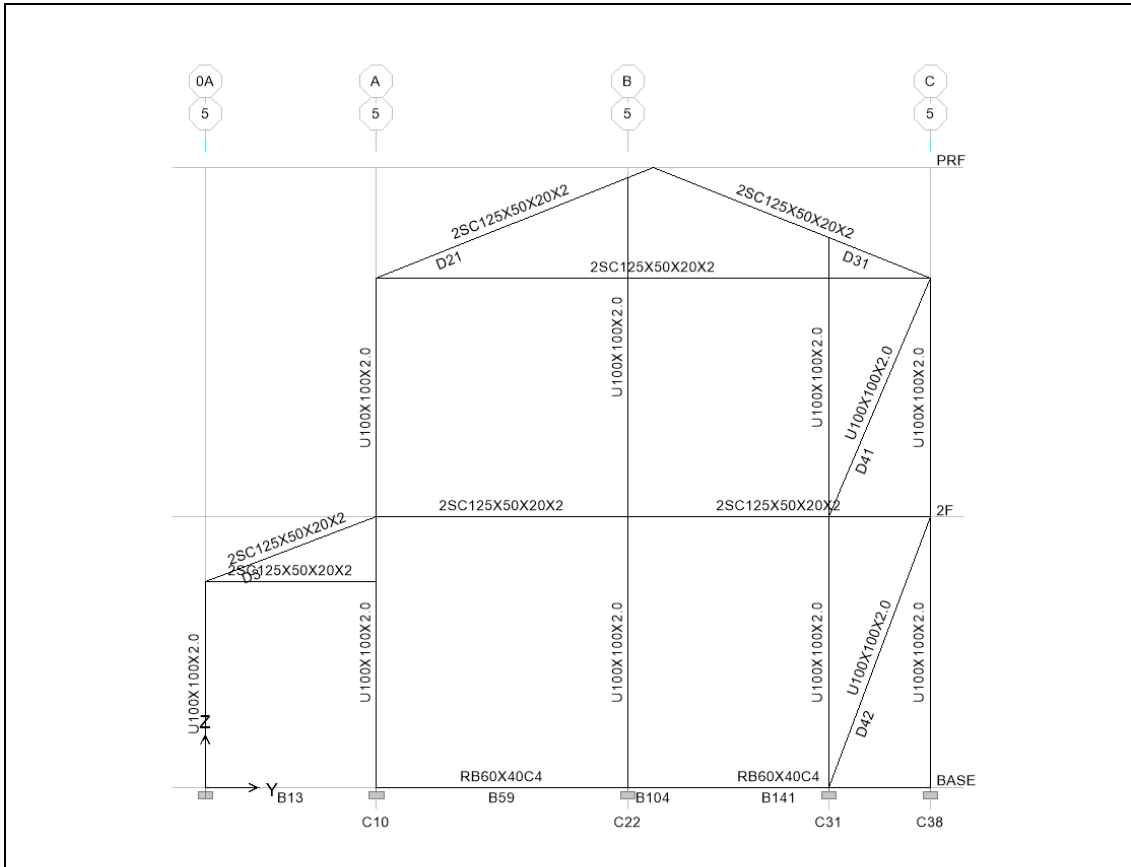
EL Line-2



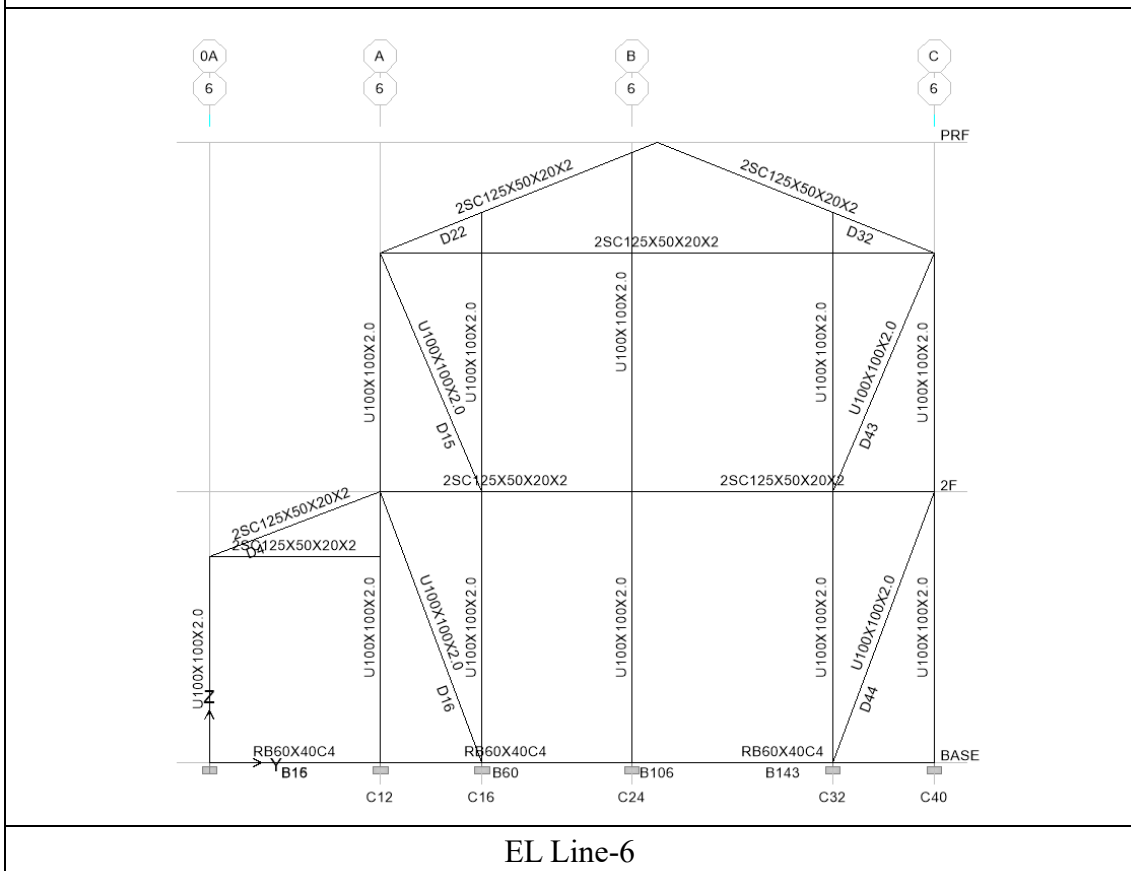
EL Line-3



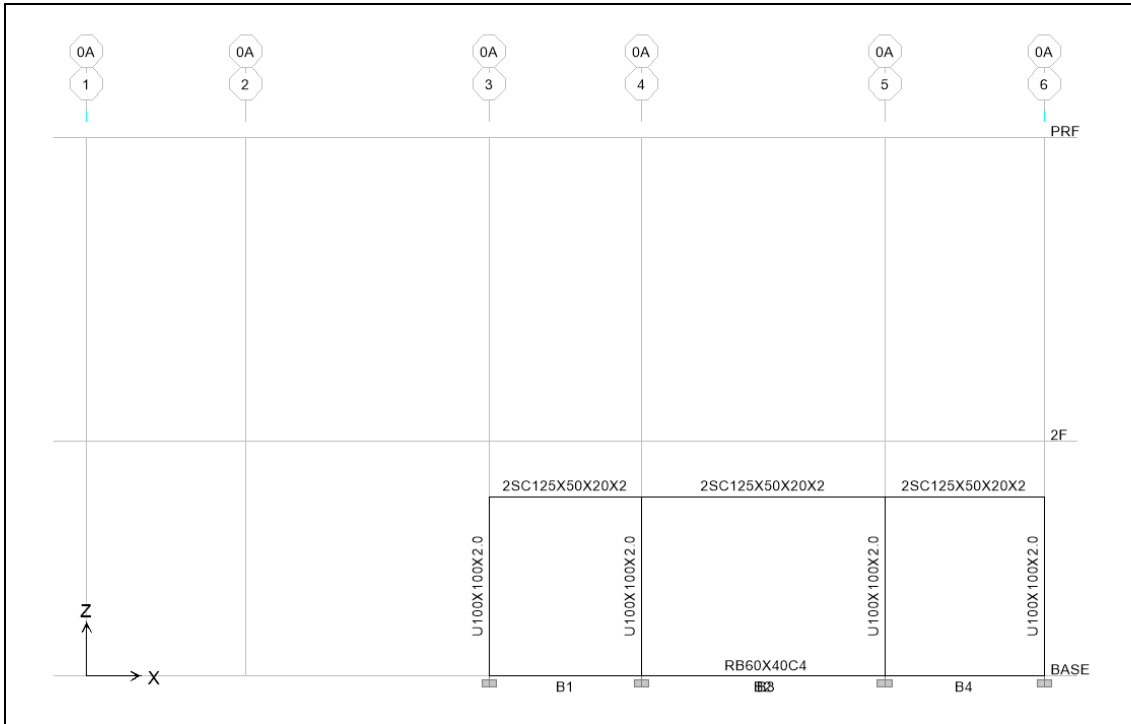
EL Line-4



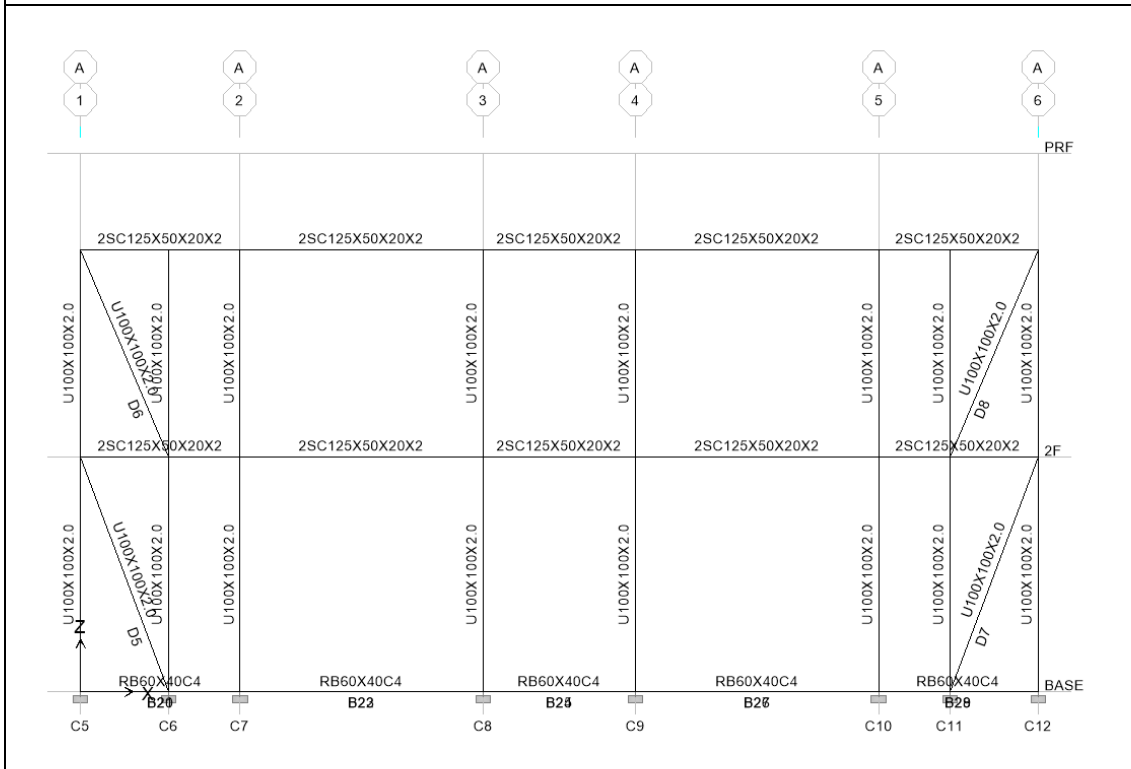
EL Line-5



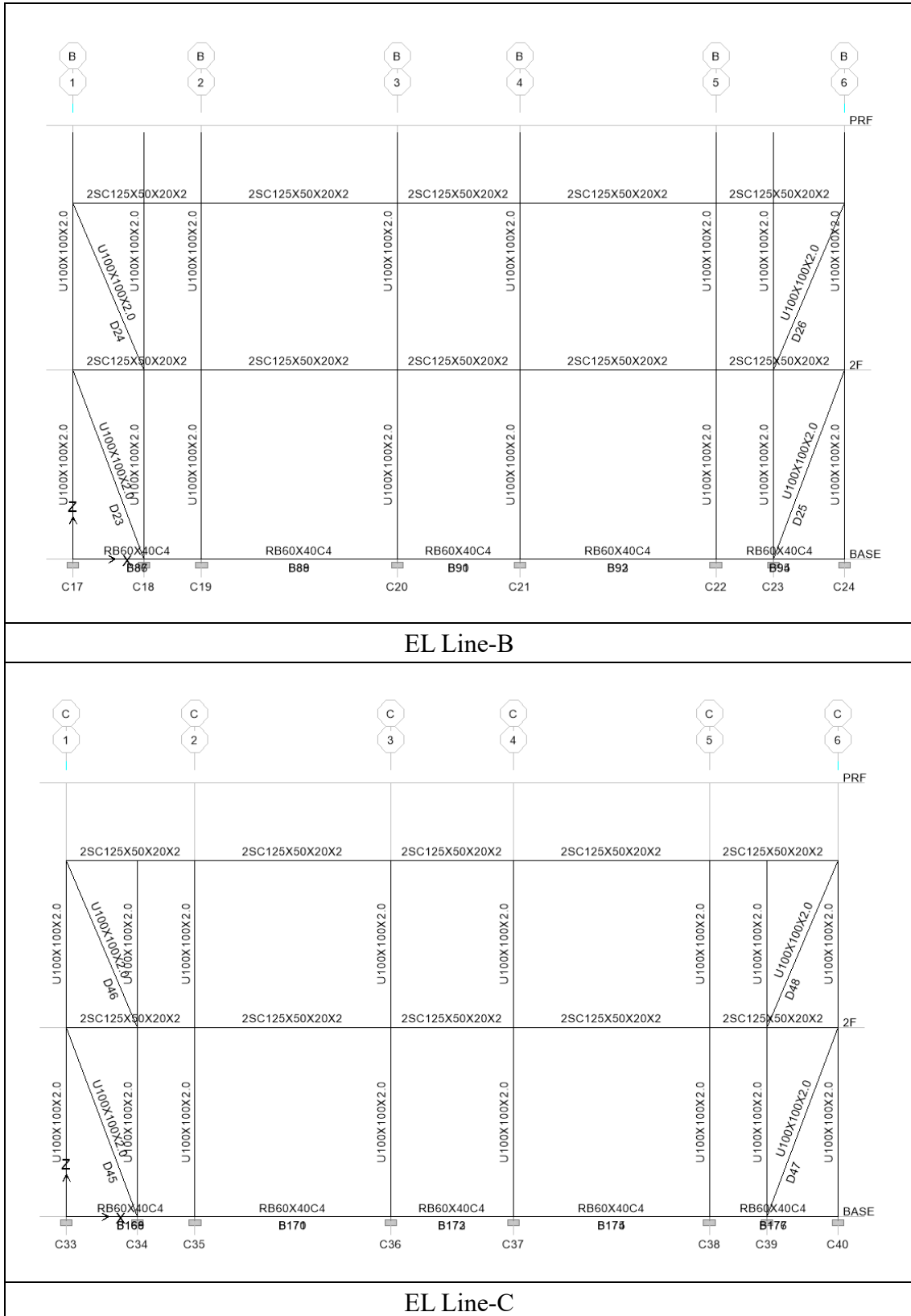
EL Line-6



EL Line-0A



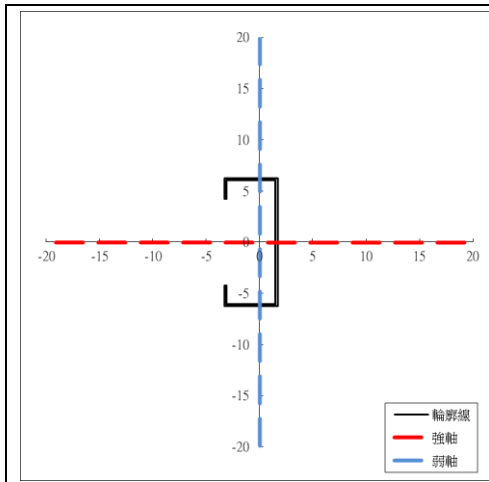
EL Line-A





斷面性質

C125x50x20x2.0



斷面積： $A= 5.140 \text{ (cm}^2\text{)}$

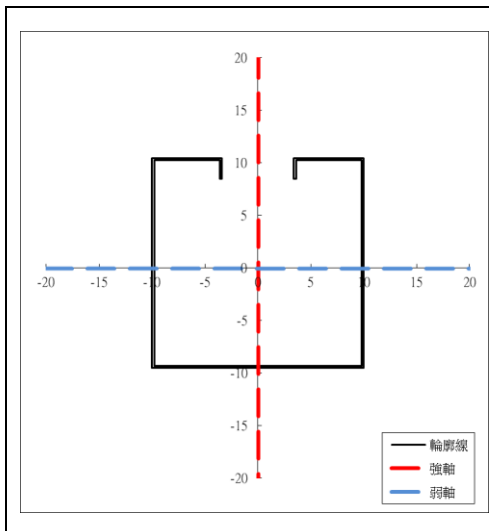
慣性矩： $I_x= 124.468 \text{ (cm}^4\text{)}$

$I_y= 19.025 \text{ (cm}^4\text{)}$

斷面模數： $S_x= 19.915 \text{ (cm}^3\text{)}$

$S_y= 5.776 \text{ (cm}^3\text{)}$

U100x100x2.0



斷面積： $A= 15.200 \text{ (cm}^2\text{)}$

慣性矩： $I_x= 955.743 \text{ (cm}^4\text{)}$

$I_y= 1038.673 \text{ (cm}^4\text{)}$

斷面模數： $S_x= 91.334 \text{ (cm}^3\text{)}$

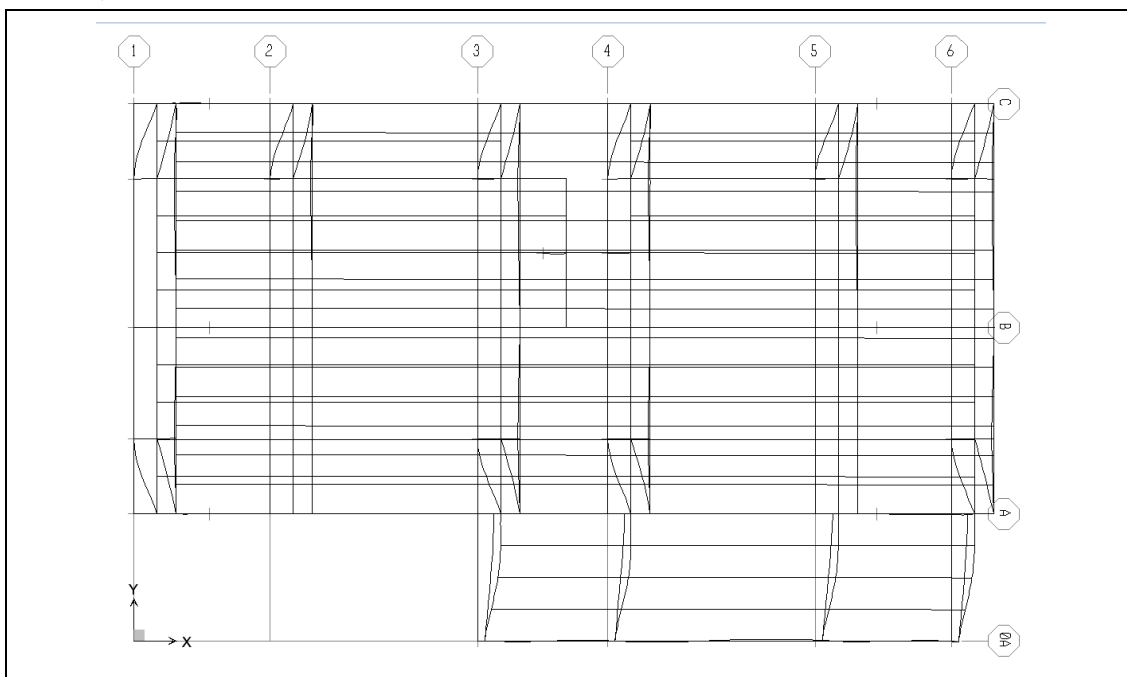
$S_y= 103.867 \text{ (cm}^3\text{)}$



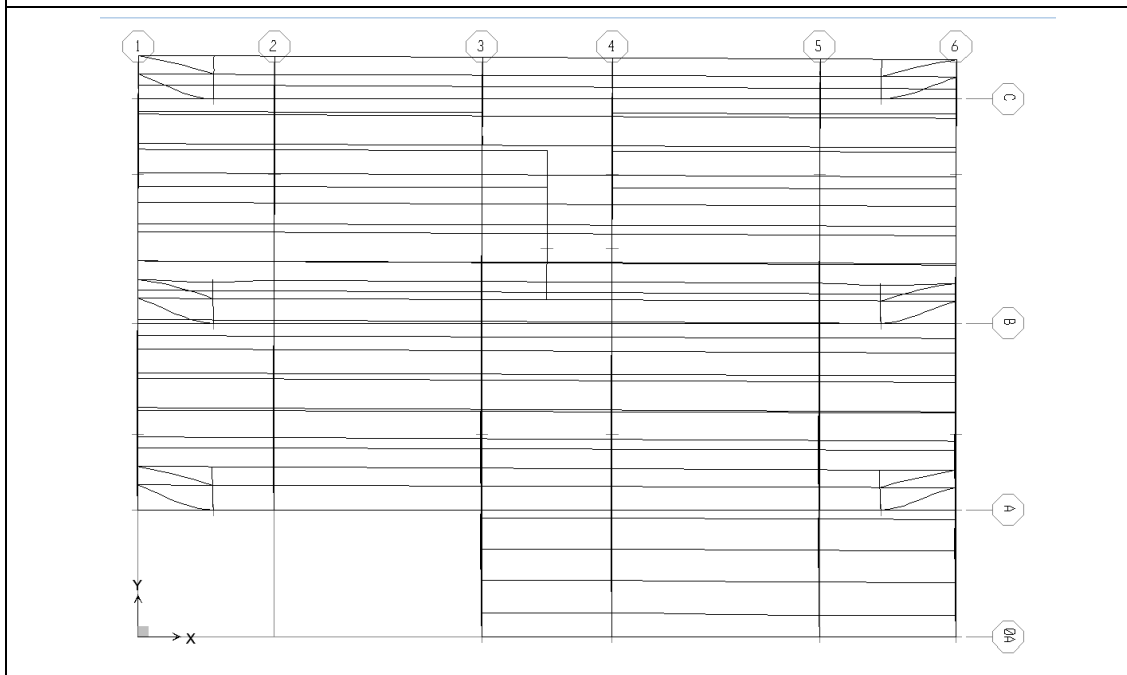
2-C125x50x20x2.0

	<p>彈性係數：</p> $E = 2100000 \quad (\text{kgf/cm}^2)$ <p>斷面積：</p> $A = \frac{\Sigma E \cdot A}{E} = 10.280 \quad (\text{cm}^2)$ <p>慣性矩：</p> $I_x = \frac{\Sigma E \cdot I_x}{E} = 248.937 \quad (\text{cm}^4)$ $I_y = \frac{\Sigma E \cdot I_y}{E} = 38.050 \quad (\text{cm}^4)$ <p>斷面模數：</p> $S_x = \frac{\Sigma E \cdot I_x}{E_i \cdot y_i} = 39.830 \quad (\text{cm}^3)$ $S_y = \frac{\Sigma E \cdot I_y}{E_i \cdot x_i} = 11.552 \quad (\text{cm}^3)$
--	--

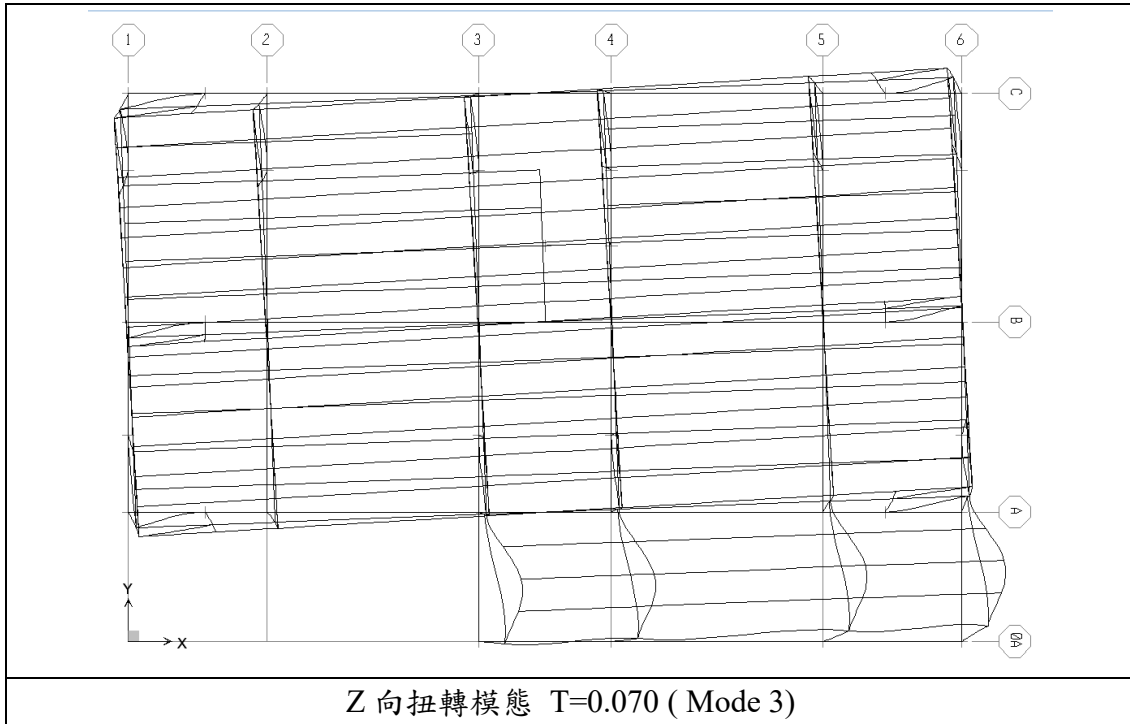
7.2 模態分析



X 向位移模態 $T=0.113$ (Mode 1)



Y 向位移模態 $T=0.090$ (Mode 2)



有效累積振態質量

Mode	Period	UX	UY	RZ	SumUX	SumUY	SumRZ	Remark
1	0.113	90.983	0.005	1.079	90.983	0.005	1.079	X-Dir
2	0.090	0.005	92.284	0.855	90.988	92.288	1.934	Y-Dir
3	0.070	0.301	0.162	83.039	91.289	92.451	84.973	Z-Tor
4	0.064	0.843	0.026	10.025	92.132	92.476	94.998	
5	0.040	7.705	0.000	0.291	99.837	92.476	95.290	
6	0.033	0.000	7.483	0.002	99.837	99.959	95.292	
7	0.028	0.008	0.027	4.260	99.844	99.986	99.551	
8	0.025	0.153	0.001	0.441	99.998	99.986	99.992	
9	0.013	0.002	0.000	0.002	100.000	99.986	99.994	
10	0.012	0.000	0.000	0.003	100.000	99.987	99.997	
11	0.011	0.000	0.012	0.002	100.000	99.998	99.999	
12	0.008	0.000	0.000	0.000	100.000	99.998	99.999	
13	0.008	0.000	0.000	0.000	100.000	99.998	99.999	
14	0.007	0.000	0.000	0.001	100.000	99.998	100.000	
15	0.007	0.000	0.001	0.000	100.000	100.000	100.000	



7.2 鋼結構設計：

根據鋼構造建築物鋼結構設計技術規範，鋼結構極限設計法之相關規定，對稱構材承受彎矩及軸力交互作用時，須滿足公式(8.2-1a)或(8.2-1b)之規定。

當 $\frac{P_u}{\phi P_n} \geq 0.2$ 時

$$\frac{P_u}{\phi P_n} + \frac{8}{9} \left[\frac{M_{ux}}{\phi_b M_{nx}} + \frac{M_{uy}}{\phi_b M_{ny}} \right] \leq 1.0 \quad (8.2-1a)$$

當 $\frac{P_u}{\phi P_n} < 0.2$ 時

$$\frac{P_u}{2\phi P_n} + \left[\frac{M_{ux}}{\phi_b M_{nx}} + \frac{M_{uy}}{\phi_b M_{ny}} \right] \leq 1.0 \quad (8.2-1b)$$

其中

P_u = 所需之軸拉力或軸壓力強度

P_n = 標稱抗拉強度或標稱抗壓強度

M_u = 所需之撓曲強度

M_n = 標稱之撓曲強度

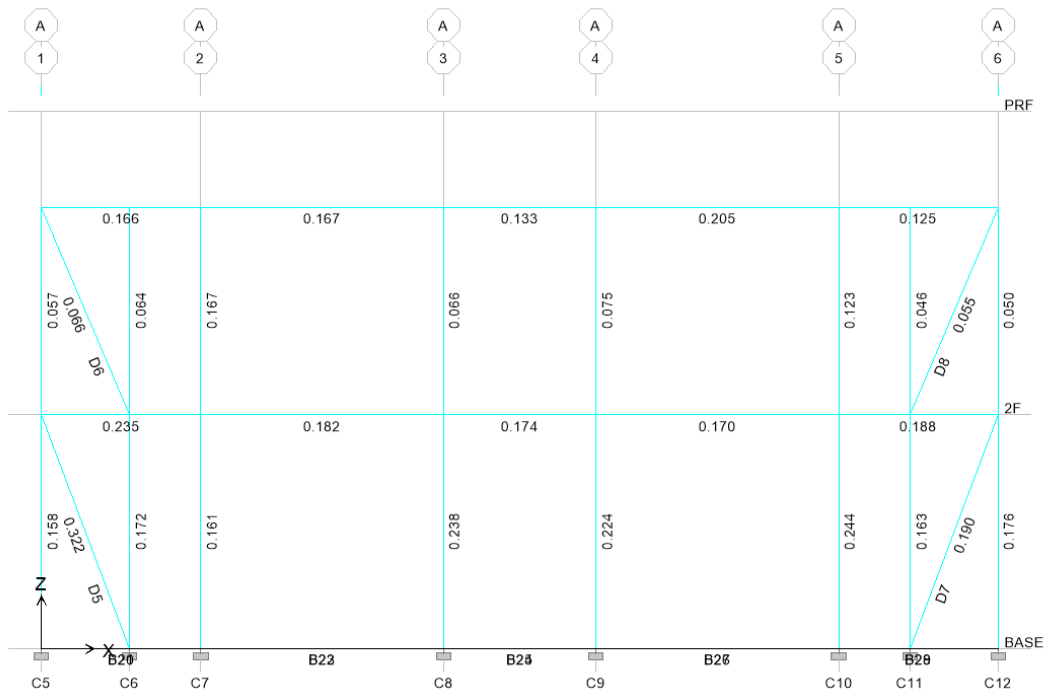
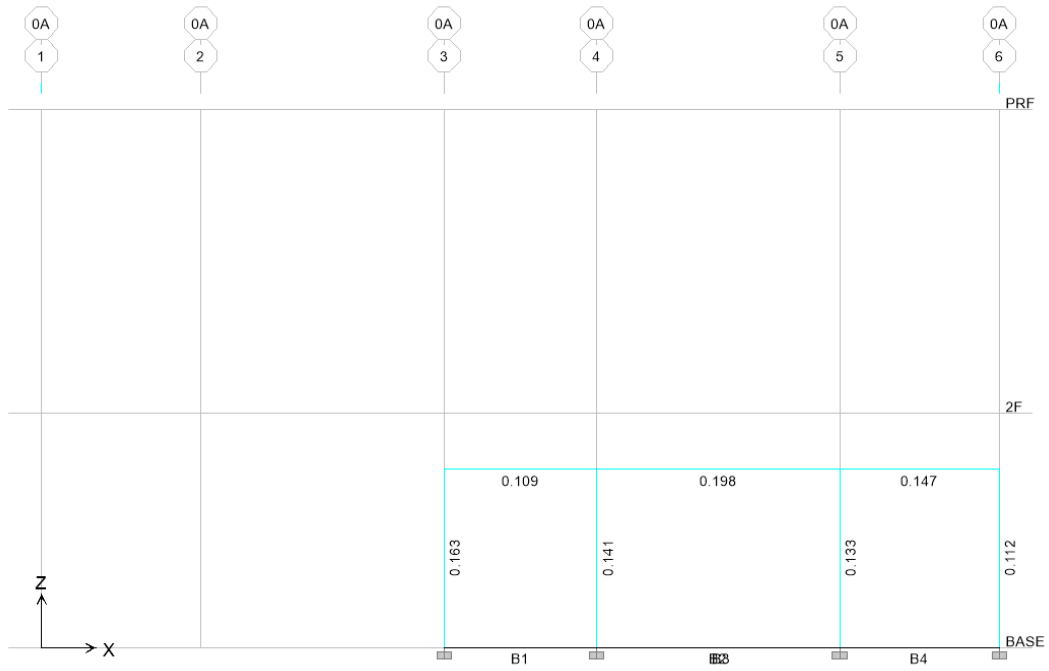
x = 強軸

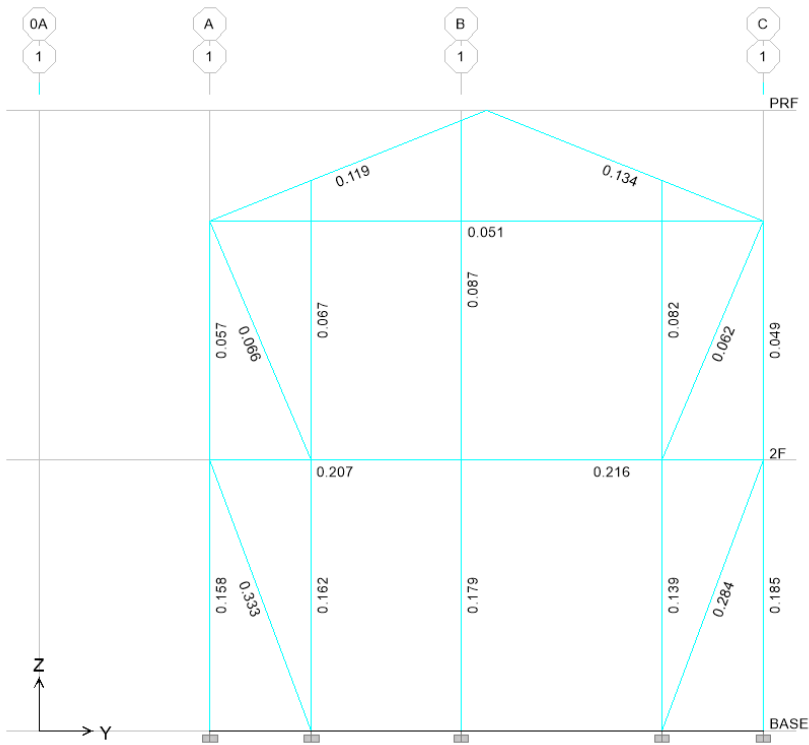
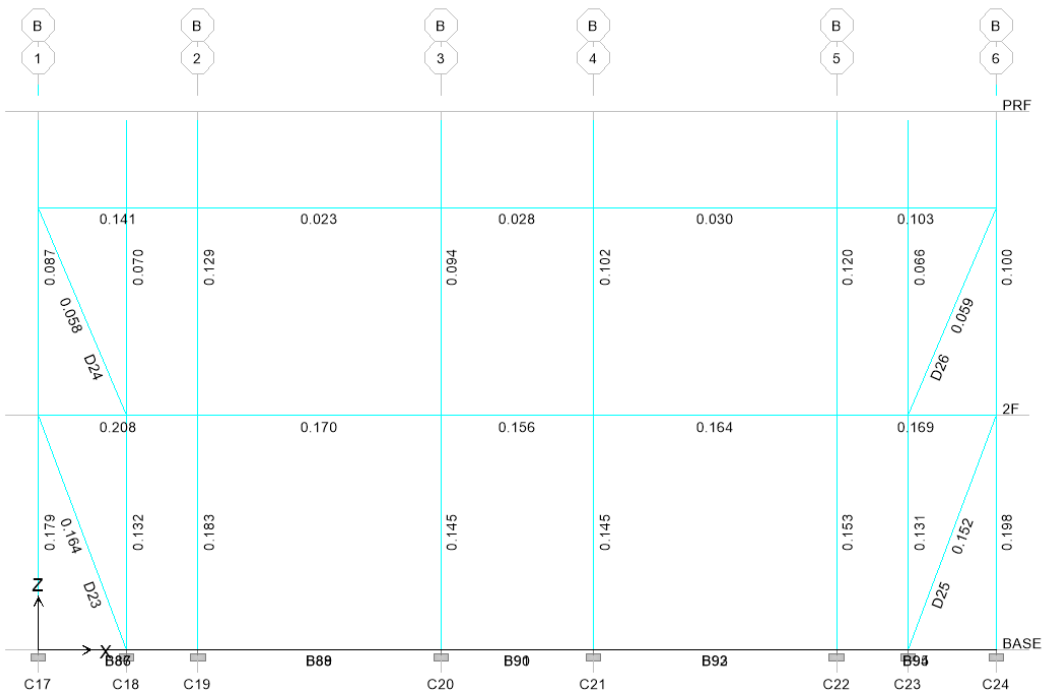
y = 弱軸

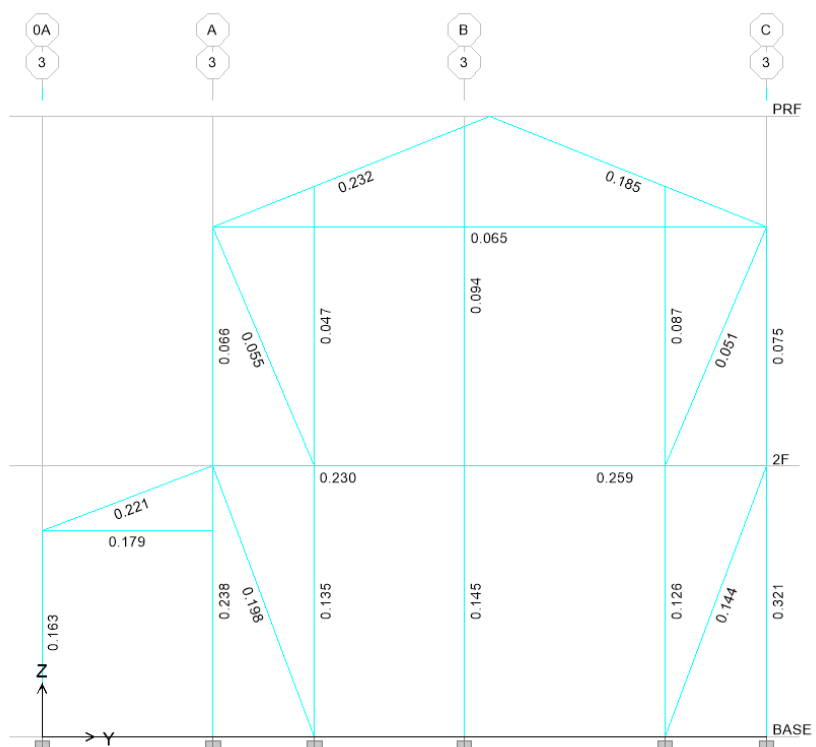
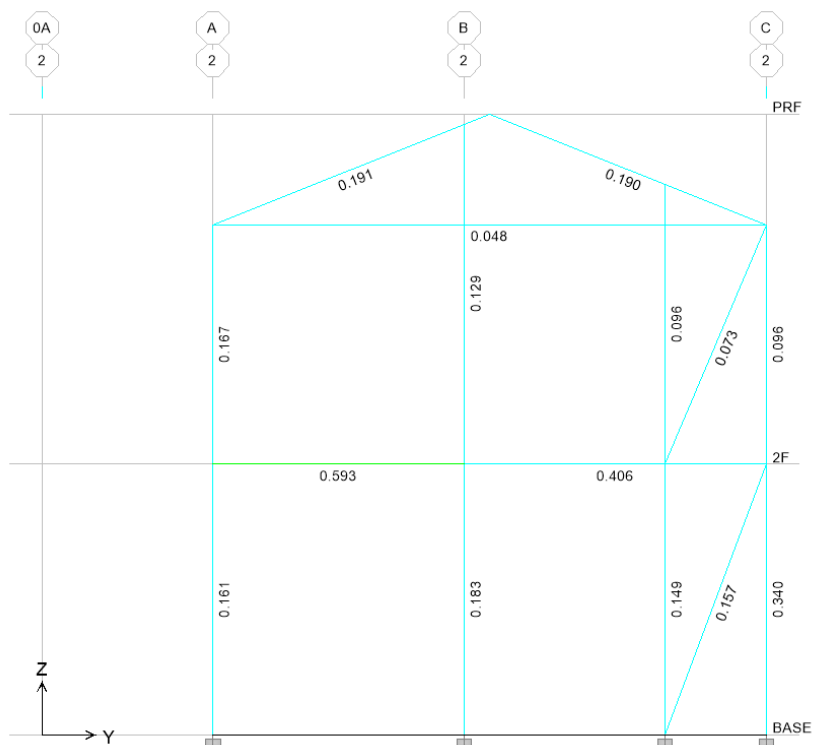
ϕ = 軸力載重下之強度折減係數

ϕ_b = 撓曲載重下之強度折減係數

分析模型各桿件的應力比皆小於1.....OK!









9.0 基礎設計 / Foundation Design

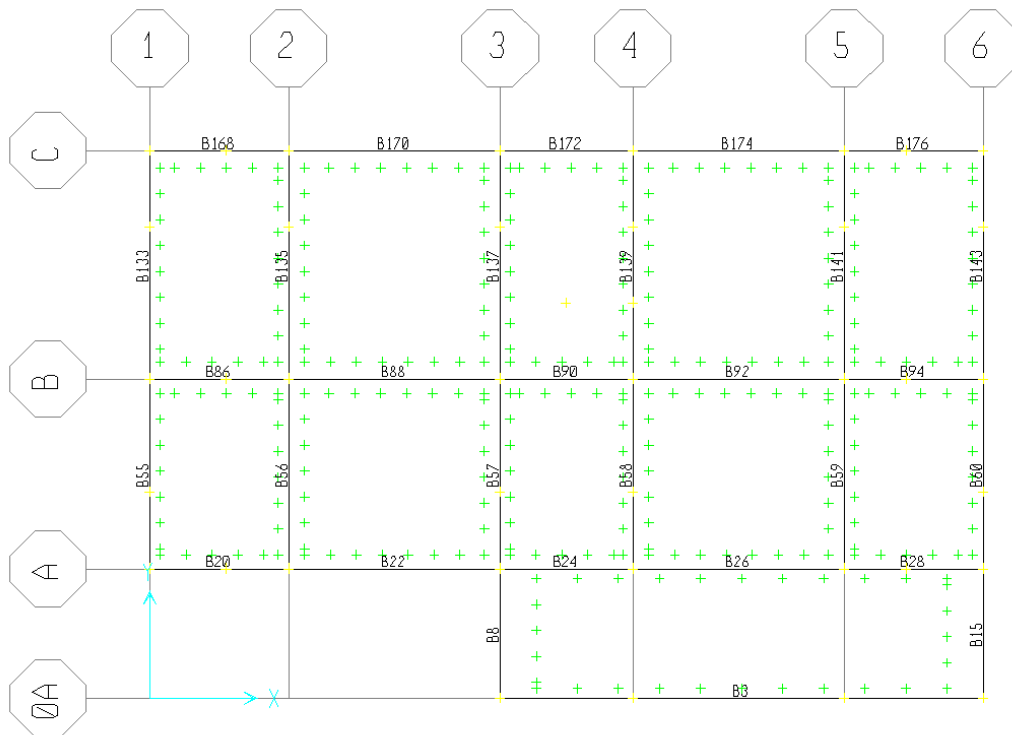
9.1 基礎設計說明

本案基礎設計採 CSI 公司之 2-D 分析軟體”SAFE V8.01”，分析元素包含基礎版、及地梁，版元素下方承受地下水壓上舉水浮力，版元素上方則於柱位置處承受結構傳遞之垂直載重，包含靜載重、活載重及地震力等。將基礎為一柔性體，應用土壤彈簧 (Soil Spring) 之觀念，將土壤模擬成無受拉彈簧，同時合併基礎地梁、版之勁度進行分析並設計。

9.1.1 分析基本資料

依據鄰近地質鑽探報告，各設計數據如下：

地盤垂直反力係數	$K_v = 1000(\text{tf}/\text{m}^3)$
常時水位(WAN)	GL -10m
高水位(WAH)	GL -7m
土壤容許乘載力	$q_a > 10 (\text{tf}/\text{m}^2)$



基礎結構平面圖



9.1.2 基礎設計載重組合

地震力分析採用法規靜力地震力，將上部結構桿件力傳至基礎。配筋設計採用設計地震力之 $1.4\alpha y$ 倍作為設計載重。分析及配筋設計之載重組合如下：

DL：靜載重(包含自重)

LL：活載重

E：法規地震載重 (EXP、EXN、EYP、EYN)

EXP、EXN：X 向法規靜力地震載重(含正負 5% 質心偏移，P 為正，N 為負)

EYP、EYN：Y 向法規靜力地震載重(含正負 5% 質心偏移，P 為正，N 為負)

WA：水浮力 (WAH、WAN)

WAH：高水位時之水浮力

WAN：常時水位之水浮力

檢核(乘載力檢核)

$$1.0DL+1.0WA$$

$$1.0DL+1.0LL+1.0WA$$

$$1.0DL+1.0LL\pm 1.0E+1.0WA$$

設計

$$1.4DL+1.4WA$$

$$1.2DL+1.6LL+1.2WA$$

$$1.2DL+1.0LL\pm 1.4E$$

$$0.9DL\pm 1.4E$$



	DL	SDL	LL	EXP	EYP	EXN	EYN	WAH	WAN	備註
BASE01	1.000	1.000						1.000		檢核(乘載力檢核)
BASE02	1.000	1.000							1.000	
BASE03	1.000	1.000	1.000					1.000		
BASE04	1.000	1.000	1.000						1.000	
BASE05	1.000	1.000	1.000	1.000				1.000		
BASE06	1.000	1.000	1.000	1.000					1.000	
BASE07	1.000	1.000	1.000		1.000			1.000		
BASE08	1.000	1.000	1.000		1.000				1.000	
BASE09	1.000	1.000	1.000			1.000		1.000		
BASE10	1.000	1.000	1.000			1.000			1.000	
BASE11	1.000	1.000	1.000				1.000	1.000		
BASE12	1.000	1.000	1.000				1.000		1.000	
BASE13	1.000	1.000	1.000	-1.000				1.000		
BASE14	1.000	1.000	1.000	-1.000					1.000	
BASE15	1.000	1.000	1.000		-1.000			1.000		
BASE16	1.000	1.000	1.000		-1.000				1.000	
BASE17	1.000	1.000	1.000			-1.000		1.000		
BASE18	1.000	1.000	1.000			-1.000			1.000	
BASE19	1.000	1.000	1.000				-1.000	1.000		
BASE20	1.000	1.000	1.000				-1.000		1.000	
BASE21	1.400	1.400						1.400		設計
BASE22	1.400	1.400							1.400	
BASE23	1.200	1.200	1.600					1.200		
BASE24	1.200	1.200	1.600						1.200	
BASE25	1.200	1.200	1.000	1.400						
BASE26	1.200	1.200	1.000		1.400					
BASE27	1.200	1.200	1.000			1.400				
BASE28	1.200	1.200	1.000				1.400			
BASE29	1.200	1.200	1.000	-1.400						
BASE30	1.200	1.200	1.000		-1.400					
BASE31	1.200	1.200	1.000			-1.400				
BASE32	1.200	1.200	1.000				-1.400			
BASE33	0.900	0.900		1.400						
BASE34	0.900	0.900			1.400					
BASE35	0.900	0.900				1.400				
BASE36	0.900	0.900					1.400			



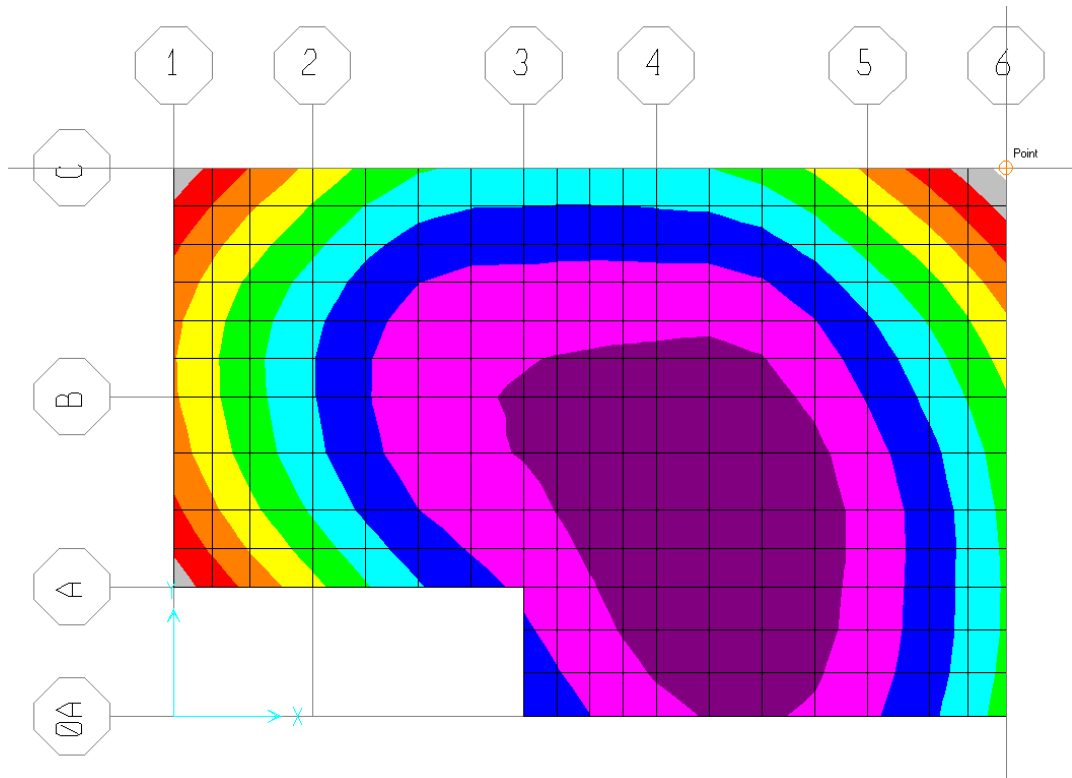
BASE37	0.900	0.900		-1.400					
BASE38	0.900	0.900			-1.400				
BASE39	0.900	0.900				-1.400			
BASE40	0.900	0.900					-1.400		

9.2 基礎分析

9.2.1 分析基本資料

1. 容許承载力檢核：

承载力檢核考慮載重組合為 BASE04



土壤最大反力為 $3.769(\text{tf}/\text{m}^2) < q_a = 10(\text{tf}/\text{m}^2) \dots \text{OK}$



2. 角變量檢核：

載重組合	基礎最大角變量 η	最大角變量桿件	檢核角變量 η
BASE01	1 /9403	B20	$\eta < 1/500 \dots OK$
BASE02	1 /9403	B20	$\eta < 1/500 \dots OK$
BASE03	1 /8160	B20	$\eta < 1/500 \dots OK$
BASE04	1 /8160	B20	$\eta < 1/500 \dots OK$
BASE05	1 /8202	B22	$\eta < 1/333 \dots OK$
BASE06	1 /8202	B22	$\eta < 1/333 \dots OK$
BASE07	1 /8657	B86	$\eta < 1/333 \dots OK$
BASE08	1 /8657	B86	$\eta < 1/333 \dots OK$
BASE09	1 /7973	B22	$\eta < 1/333 \dots OK$
BASE10	1 /7973	B22	$\eta < 1/333 \dots OK$
BASE11	1 /8544	B20	$\eta < 1/333 \dots OK$
BASE12	1 /8544	B20	$\eta < 1/333 \dots OK$
BASE13	1 /4507	B20	$\eta < 1/333 \dots OK$
BASE14	1 /4507	B20	$\eta < 1/333 \dots OK$
BASE15	1 /7713	B20	$\eta < 1/333 \dots OK$
BASE16	1 /7713	B20	$\eta < 1/333 \dots OK$
BASE17	1 /4491	B20	$\eta < 1/333 \dots OK$
BASE18	1 /4491	B20	$\eta < 1/333 \dots OK$
BASE19	1 /7808	B20	$\eta < 1/333 \dots OK$
BASE20	1 /7808	B20	$\eta < 1/333 \dots OK$



3. 基礎最大沉陷量檢核

載重組合	基礎最大沉陷變位 δ (cm)	最大沉陷點	檢核沉陷變位
BASE01	-0.236	186	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE02	-0.236	186	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE03	-0.377	186	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE04	-0.377	186	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE05	-0.399	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE06	-0.399	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE07	-0.396	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE08	-0.396	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE09	-0.400	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE10	-0.400	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE11	-0.393	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE12	-0.393	186	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE13	-0.398	17	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE14	-0.398	17	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE15	-0.387	17	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE16	-0.387	17	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE17	-0.397	179	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE18	-0.397	179	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE19	-0.389	17	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE20	-0.389	17	$\delta < 7.500(\text{cm}) \dots \text{OK}$



9.3 基礎結構設計

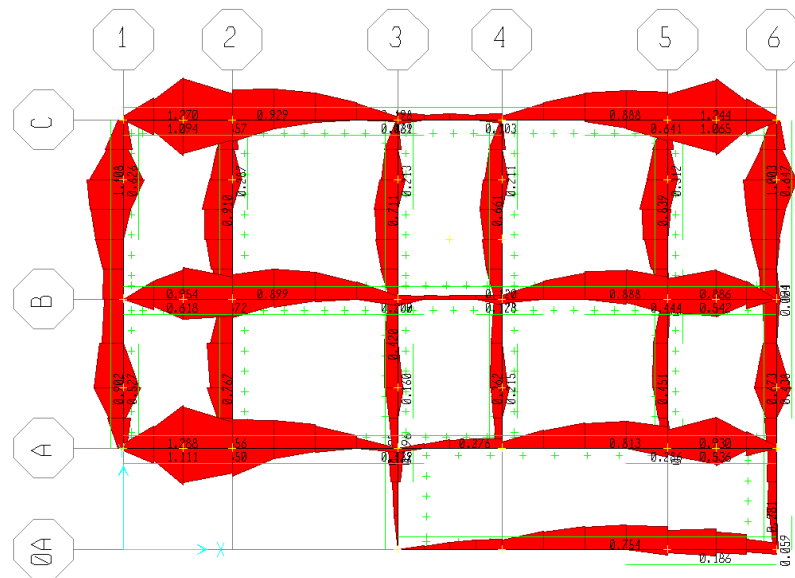
1. 材料強度

混凝土抗壓強度： 280 kgf/cm^2

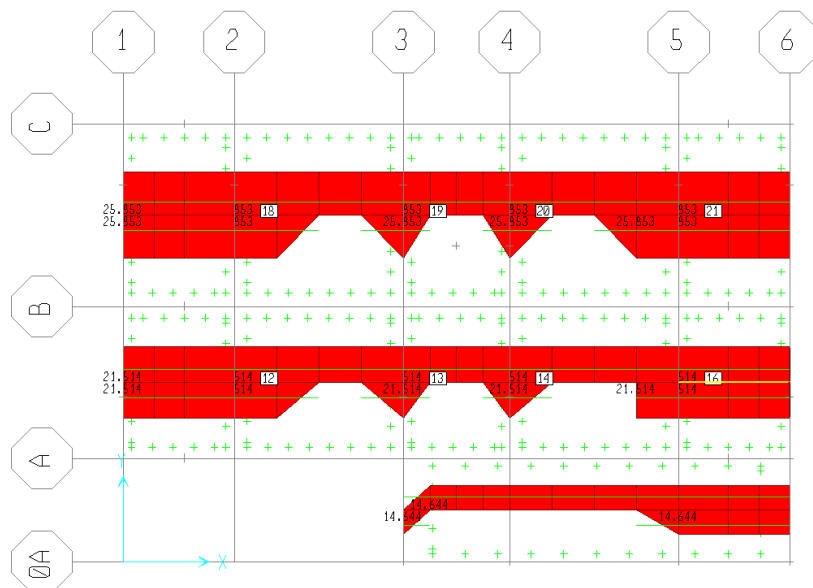
鋼筋降伏強度： 2800 kgf/cm^2 (#3 及以下)

4200 kgf/cm^2 (#4 及以上)

2. 地樑設計



基版 X 向鋼筋需求





附錄

PROGRAM INFORMATION

PROGRAM 'ETABS' VERSION '9.5.0'

CONTROLS

UNITS 'KGF' 'CM'
TITLE 'Le-Lit Structure Studs'
PREFERENCE MERGETOL 0.1
RLF METHOD 'TRIBAREAU(C)9' USEDEFAULTMIN 'YES'

STORIES - IN SEQUENCE FROM TOP

STORY 'RF' HEIGHT 413.3 SIMILAR TO '2B'
STORY '2F' HEIGHT 320 MASTERSTORY 'Yes'
STORY 'BASE' ELEV 0

DIAPHRAGM NAMES

DIAPHRAGM 'D1' TYPE RIGID
DIAPHRAGM 'D2' TYPE RIGID
DIAPHRAGM 'D3' TYPE RIGID

GRIDS

COORDSYSTEM 'GLOBAL' TYPE 'CARTESIAN' BUBBLIZESIZE 50
GRID 'GLOBAL' LABEL '1' DIR 'X' COORD 0 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '2' DIR 'X' COORD 217.5 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '3' DIR 'X' COORD 434.9 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '4' DIR 'X' COORD 652.4 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '5' DIR 'X' COORD 869.9 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '6' DIR 'X' COORD 1087.3 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '7A' DIR 'X' COORD 1304.8 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL 'A' DIR 'Y' COORD 202.5 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL 'B' DIR 'Y' COORD 500 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL 'C' DIR 'Y' COORD 857.5 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'

MATERIAL PROPERTIES

MATERIAL 'STEEL' M 8.010204E-06 W 0.00785 TYPE 'ISOTROPIC' E 204000 U 0.3 A 1.169999999590917E-05
MATERIAL 'STEEL' 'STEEL' FY 2500 FU 4000 PRICE 35
MATERIAL 'CONC' M 2.448012E-06 W 0.0024 TYPE 'ISOTROPIC' E 250998 U 0.2 A 9.89999998542142E-06
MATERIAL 'CONC' 'DESKNTYPE' 'CONCRETE' FY 4200 FC 280 FYS 2800
MATERIAL 'OTHER' M 7.324016E-12 W 2.83E-07 TYPE 'ISOTROPIC' E 2900 U 0.3 A 6.4999999267456E-06
MATERIAL 'OTHER' 'DESKNTYPE' 'OTHER'
MATERIAL 'SGC40' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.169999999590917E-05
MATERIAL 'SGC40' 'DESKNTYPE' 'STEEL' FY 3400 FU 4000 PRICE 45
MATERIAL 'GR50' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.169999999590917E-05
MATERIAL 'GR50' 'DESKNTYPE' 'STEEL' FY 3500 FU 4000 PRICE 45
MATERIAL '6063T5' M 2.75E-06 W 0.0027 TYPE 'ISOTROPIC' E 73000 U 0.3 A 1.169999999590917E-05
MATERIAL '6063T5' 'DESKNTYPE' 'STEEL' FY 1120 FU 4000 PRICE 45
MATERIAL 'C200' M 4.44E-06 W 0.0024 TYPE 'ISOTROPIC' E 250998 U 0.2 A 9.8999997473787E-06
MATERIAL 'C200' 'DESKNTYPE' 'CONCRETE' FY 4200 FC 280 FYS 4200
MATERIAL 'MAT1' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.169999999590917E-05
MATERIAL 'MAT1' 'DESKNTYPE' 'STEEL' FY 2400 FU 4000 PRICE 45
MATERIAL 'S45C' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.169999999590917E-05
MATERIAL 'S45C' 'DESKNTYPE' 'STEEL' FY 3500 FU 4000 PRICE 45

FRAME SECTIONS

FRAMESECTION '25C125X30X20' MATERIAL 'SGC40' SHAPE 'General' D 12.5 B 20 AREA 10.28 TORSON 38.0499 I33 248.9366 I22 38.0499 AS2 2.5
FRAMESECTION '110X30X20' MATERIAL 'SGC40' SHAPE 'General' D 10 B 10 AREA 15.2 TORSON 955.7422 I33 955.7422 I22 1038.673 AS2 4 AS3 4
FRAMESECTION '125X30X20' MATERIAL 'SGC40' SHAPE 'General' D 12.5 B 5 AREA 5.14 TORSON 19.0249 I33 124.4683 I22 19.0249 AS2 2.5
FRAMESECTION '110X30X18X2' MATERIAL 'SGC40' SHAPE 'General' D 5 B 10 AREA 4.44 TORSON 15.6865 I33 15.6865 I22 71.801 AS2 2 AS3 2
FRAMESECTION 'R0D25' MATERIAL 'SGC40' SHAPE 'circle' D 2.5
FRAMESECTION 'R10X20' MATERIAL 'SGC40' SHAPE 'Rectangular' D 2 B 5
FRAMESECTION 'Z125X30X20' MATERIAL 'SGC40' SHAPE 'General' D 12.5 B 5 AREA 4.999999 TORSON 33.27907 I33 117.7726 I22 33.27907 AS2
FRAMESECTION 'R860X40C' MATERIAL 'C200' SHAPE 'Rectangular' D 40 B 60

REBAR DEFINITIONS

REBARDEFINITION 'R3' AREA 0.7133 DIA 0.953
REBARDEFINITION 'R4' AREA 1.267 DIA 1.27
REBARDEFINITION 'R5' AREA 1.986 DIA 1.59
REBARDEFINITION 'R6' AREA 2.865 DIA 1.91
REBARDEFINITION 'R7' AREA 3.871 DIA 2.22
REBARDEFINITION 'R8' AREA 5.14 DIA 2.54
REBARDEFINITION 'R10' AREA 8.143 DIA 3.22

CONCRETE SECTIONS

CONCRETESECTION 'RB60X40C' TYPE 'BEAM' COVERTOP 7 COVERBOTTOM 7 A10 A B10 A T3 0 A B10

WALL/SLAB/DECK PROPERTIES

SHELLPROP 'S15' MATERIAL 'C200' PROPTYPE 'SLAB' TYPE 'MEMBRANE' TM 15 TB 15
SHELLPROP 'S40' MATERIAL 'C200' PROPTYPE 'SLAB' TYPE 'MEMBRANE' TM 40 TB 40

PIER/SPANDREL NAMES

PIERNAME 'P1'
SPANDRELNAME 'S1'

POINT COORDINATES

POINT '1' 548.5 0
POINT '1-1' 548.5 0.76
POINT '2' 756.5 0
POINT '2-1' 756.5 0.76
POINT '3' 1087.5 0
POINT '3-1' 1087.5 0.76
POINT '4' 1305 0
POINT '4-1' 1305 0.76
POINT '5' 548.5 50.6250023841858
POINT '5-1' 548.5 50.6250023841858 57
POINT '6' 756.5 50.6250023841858
POINT '6-1' 756.5 50.6250023841858 57
POINT '7' 1087.5 50.6250023841858
POINT '7-1' 1087.5 50.6250023841858 57
POINT '8' 1305 50.6250023841858
POINT '8-1' 1305 50.6250023841858 57
POINT '9' 548.5 101.250004768372
POINT '9-1' 548.5 101.250004768372 38
POINT '10' 756.5 101.250004768372
POINT '10-1' 756.5 101.250004768372 38
POINT '11' 1087.5 101.250004768372
POINT '11-1' 1087.5 101.250004768372 38
POINT '12' 1305 101.250004768372
POINT '12-1' 1305 101.250004768372 38
POINT '13' 548.5 151.874995231628
POINT '13-1' 548.5 151.874995231628 19
POINT '14' 756.5 151.874995231628
POINT '14-1' 756.5 151.874995231628 19
POINT '15' 1087.5 151.874995231628
POINT '15-1' 1087.5 151.874995231628 19
POINT '16' 1305 151.874995231628
POINT '16-1' 1305 151.874995231628 19
POINT '17' 0 202.500009536743
POINT '17-1' 0 202.500009536743 130.7
POINT '18' 120 202.500009536743
POINT '18-1' 120 202.500009536743 130.7
POINT '19' 217.5 202.500009536743
POINT '19-1' 217.5 202.500009536743 130.7
POINT '20' 548.5 202.500009536743
POINT '20-1' 548.5 202.500009536743 76
POINT '20-2' 548.5 202.500009536743 130.7
POINT '21' 756.5 202.500009536743
POINT '21-1' 756.5 202.500009536743 130.7
POINT '21-2' 756.5 202.500009536743 130.7
POINT '22' 1087.5 202.500009536743
POINT '22-1' 1087.5 202.500009536743 76
POINT '22-2' 1087.5 202.500009536743 130.7
POINT '23' 1185 202.500009536743
POINT '23-1' 1185 202.500009536743 130.7
POINT '24' 1305 202.500009536743
POINT '24-1' 1305 202.500009536743 76
POINT '24-2' 1305 202.500009536743 130.7
POINT '25' 0 249.2857177887
POINT '25-1' 0 249.2857177887 112.0286
POINT '26' 217.5 249.2857177887
POINT '26-1' 217.5 249.2857177887 112.0286
POINT '27' 548.5 249.2857177887
POINT '27-1' 548.5 249.2857177887 112.0286
POINT '28' 756.5 249.2857177887
POINT '28-1' 756.5 249.2857177887 112.0286
POINT '29' 1087.5 249.2857177887
POINT '29-1' 1087.5 249.2857177887 112.0286
POINT '30' 1305 249.2857177887
POINT '30-1' 1305 249.2857177887 112.0286
POINT '31' 0 261.9998555908
POINT '32' 217.5 261.9998555908
POINT '32-1' 217.5 261.9998555908
POINT '33' 548.5 261.9998555908
POINT '34' 756.5 261.9998555908
POINT '35' 1087.5 261.9998555908
POINT '36' 1305 261.9998555908
POINT '37' 0 296.071434020996
POINT '37-1' 0 296.071434020996 93.35714
POINT '38' 217.5 296.071434020996
POINT '38-1' 217.5 296.071434020996 93.35714
POINT '39' 548.5 296.071434020996
POINT '39-1' 548.5 296.071434020996 93.35714
POINT '40' 756.5 296.071434020996
POINT '40-1' 756.5 296.071434020996 93.35714
POINT '41' 1087.5 296.071434020996
POINT '41-1' 1087.5 296.071434020996 93.35714
POINT '42' 1305 296.071434020996
POINT '42-1' 1305 296.071434020996 93.35714
POINT '43' 0 321.499991416931
POINT '44' 217.5 321.499991416931
POINT '45' 548.5 321.499991416931
POINT '46' 756.5 321.499991416931
POINT '47' 1087.5 321.499991416931
POINT '48' 1305 321.499991416931
POINT '49' 0 322.499990463257
POINT '50' 217.5 322.499990463257 82.80992
POINT '51' 548.5 322.499990463257 82.80992
POINT '52' 756.5 322.499990463257 82.80992
POINT '53' 1087.5 322.499990463257 82.80992
POINT '54' 0 322.499990463257
POINT '55' 217.5 322.499990463257 82.80992
POINT '56' 548.5 322.499990463257 82.80992
POINT '57' 756.5 322.499990463257 82.80992
POINT '58' 1087.5 322.499990463257 82.80992
POINT '59' 0 342.857146263123
POINT '60' 217.5 342.857146263123 74.68571
POINT '61' 548.5 342.857146263123 74.68571
POINT '62' 756.5 342.857146263123 74.68571
POINT '63' 1087.5 342.857146263123 74.68571
POINT '64' 0 342.857146263123
POINT '65' 217.5 342.857146263123 74.68571
POINT '66' 548.5 342.857146263123 74.68571
POINT '67' 756.5 342.857146263123 74.68571
POINT '68' 1087.5 342.857146263123 74.68571
POINT '69' 0 380.99994277954
POINT '70' 217.5 380.99994277954
POINT '71' 548.5 380.99994277954
POINT '72' 756.5 380.99994277954
POINT '73' 1087.5 380.99994277954
POINT '74' 0 389.642858505249 56.01429
POINT '75' 217.5 389.642858505249 56.01429
POINT '76' 548.5 389.642858505249 56.01429
POINT '77' 756.5 389.642858505249 56.01429
POINT '78' 1087.5 389.642858505249 56.01429
POINT '79' 0 389.642858505249
POINT '80' 217.5 389.642858505249 56.01429
POINT '81' 548.5 389.642858505249 56.01429
POINT '82' 756.5 389.642858505249 56.01429
POINT '83' 1087.5 389.642858505249 56.01429
POINT '84' 0 436.428594589233
POINT '85' 217.5 436.428594589233 37.34286
POINT '86' 548.5 436.428594589233 37.34286
POINT '87' 756.5 436.428594589233 37.34286
POINT '88' 1087.5 436.428594589233 37.34286
POINT '89' 0 440.500020980835
POINT '90' 217.5 440.500020980835
POINT '91' 548.5 440.500020980835
POINT '92' 756.5 440.500020980835
POINT '93' 1087.5 440.500020980835
POINT '94' 0 483.214282989502
POINT '95' 217.5 483.214282989502 18.67143
POINT '96' 548.5 483.214282989502 18.67143
POINT '97' 756.5 483.214282989502 18.67143
POINT '98' 1087.5 483.214282989502 18.67143
POINT '99' 0 483.214282989502
POINT '100' 217.5 483.214282989502 18.67143
POINT '101' 548.5 483.214282989502 18.67143
POINT '102' 756.5 483.214282989502 18.67143
POINT '103' 1087.5 483.214282989502 18.67143
POINT '104' 0 500
POINT '105' 217.5 500
POINT '106' 548.5 500
POINT '107' 756.5 500
POINT '108' 1087.5 500
POINT '109' 0 509.583330154419
POINT '110' 217.5 509.583330154419
POINT '111' 548.5 509.583330154419
POINT '112' 756.5 509.583330154419
POINT '113' 1087.5 509.583330154419
POINT '114' 0 576.785707473755
POINT '115' 217.5 576.785707473755
POINT '116' 548.5 576.785707473755
POINT '117' 756.5 576.785707473755 18.67143
POINT '118' 1087.5 576.785707473755 18.67143
POINT '119' 0 576.785707473755
POINT '120' 217.5 576.785707473755 18.67143
POINT '121' 548.5 576.785707473755 18.67143
POINT '122' 756.5 576.785707473755 18.67143
POINT '123' 1087.5 576.785707473755 18.67143
POINT '124' 0 619.1632244873
POINT '125' 217.5 619.1632244873
POINT '126' 548.5 619.1632244873
POINT '127' 756.5 619.1632244873
POINT '128' 1087.5 619.1632244873
POINT '129' 0 623.571443557739
POINT '130' 217.5 623.571443557739 37.34286
POINT '131' 548.5 623.571443557739 37.34286
POINT '132' 756.5 623.571443557739 37.34286
POINT '133' 1087.5 623.571443557739 37.34286
POINT '134' 0 623.571443557739
POINT '135' 217.5 623.571443557739 37.34286
POINT '136' 548.5 623.571443557739 37.34286
POINT '137' 756.5 623.571443557739 37.34286
POINT '138' 1087.5 623.571443557739 37.34286
POINT '139' 0 670.357131958008 56.01429
POINT '140' 217.5 670.357131958008 56.01429
POINT '141' 548.5 670.357131958008 56.01429
POINT '142' 756.5 670.357131958008 56.01429
POINT '143' 1087.5 670.357131958008 56.01429

POINT "137-1" 548.5 670.357131958008 56.01429
POINT "138" 756.5 670.357131958008
POINT "138-1" 756.5 670.357131958008 56.01429
POINT "139" 1087.5 670.357131958008
POINT "139-1" 1087.5 670.357131958008 56.01429
POINT "140" 1305 670.357131958008
POINT "140-1" 1305 670.357131958008 56.01429
POINT "141" 0.678.743314743042
POINT "142" 217.5 678.743314743042
POINT "143" 548.5 678.743314743042
POINT "144" 652.5 678.743314743042
POINT "145" 756.5 678.743314743042
POINT "146" 1087.5 678.743314743042
POINT "147" 1305 678.743314743042
POINT "148" 0 717.142868041992
POINT "148-1" 0 717.142868041992 74.68571
POINT "149" 217.5 717.142868041992
POINT "149-1" 217.5 717.142868041992 74.68571
POINT "150" 548.5 717.142868041992
POINT "150-1" 548.5 717.142868041992 74.68571
POINT "151" 756.5 717.142868041992
POINT "151-1" 756.5 717.142868041992 74.68571
POINT "152" 1087.5 717.142868041992
POINT "152-1" 1087.5 717.142868041992 74.68571
POINT "153" 1305 717.142868041992
POINT "153-1" 1305 717.142868041992 74.68571
POINT "154" 0 737.5
POINT "154-1" 0 737.5 82.80992
POINT "155" 217.5 737.5
POINT "155-1" 217.5 737.5 82.80992
POINT "156" 548.5 737.5
POINT "156-1" 548.5 737.5 82.80992
POINT "157" 652.5 737.5
POINT "157-1" 652.5 737.5 82.80992
POINT "158" 756.5 737.5
POINT "158-1" 756.5 737.5 82.80992
POINT "159" 1087.5 737.5
POINT "159-1" 1087.5 737.5 82.80992
POINT "160" 1305 737.5
POINT "160-1" 1305 737.5 82.80992
POINT "161" 0 763.928556442261
POINT "161-1" 0 763.928556442261 93.35714
POINT "162" 217.5 763.928556442261
POINT "162-1" 217.5 763.928556442261 93.35714
POINT "163" 548.5 763.928556442261
POINT "163-1" 548.5 763.928556442261 93.35714
POINT "164" 756.5 763.928556442261
POINT "164-1" 756.5 763.928556442261 93.35714
POINT "165" 1087.5 763.928556442261
POINT "165-1" 1087.5 763.928556442261 93.35714
POINT "166" 1305 763.928556442261
POINT "166-1" 1305 763.928556442261 93.35714
POINT "167" 0 797.903347015381
POINT "168" 217.5 797.903347015381
POINT "169" 548.5 797.903347015381
POINT "170" 756.5 797.903347015381
POINT "171" 1087.5 797.903347015381
POINT "172" 1305 797.903347015381
POINT "173" 0 810.714244842529
POINT "173-1" 0 810.714244842529 112.0286
POINT "174" 217.5 810.714244842529
POINT "174-1" 217.5 810.714244842529 112.0286
POINT "175" 548.5 810.714244842529
POINT "175-1" 548.5 810.714244842529 112.0286
POINT "176" 756.5 810.714244842529
POINT "176-1" 756.5 810.714244842529 112.0286
POINT "177" 1087.5 810.714244842529
POINT "177-1" 1087.5 810.714244842529 112.0286
POINT "178" 1305 810.714244842529
POINT "178-1" 1305 810.714244842529 112.0286
POINT "179" 0 857.499980926514
POINT "179-1" 0 857.499980926514 130.7
POINT "180" 120 857.499980926514
POINT "180-1" 120 857.499980926514 130.7
POINT "181" 217.5 857.499980926514
POINT "181-1" 217.5 857.499980926514 130.7
POINT "182" 548.5 857.499980926514
POINT "182-1" 548.5 857.499980926514 130.7
POINT "183" 756.5 857.499980926514
POINT "183-1" 756.5 857.499980926514 130.7
POINT "184" 1087.5 857.499980926514
POINT "184-1" 1087.5 857.499980926514 130.7
POINT "185" 1305 857.499980926514
POINT "185-1" 1305 857.499980926514 130.7
POINT "186" 1305 857.499980926514 130.7

S LINE CONNECTIVITIES

LINE "C1" COLUMN "1" "1" 1
LINE "C1-1" COLUMN "1" "1-1" 1
LINE "C2" COLUMN "2" "2" 1
LINE "C2-1" COLUMN "2" "2-1" 1
LINE "C3" COLUMN "3" "3" 1
LINE "C3-1" COLUMN "3" "3-1" 1
LINE "C4" COLUMN "4" "4" 1
LINE "C4-1" COLUMN "4" "4-1" 1
LINE "C5" COLUMN "5" "5" 1
LINE "C5-1" COLUMN "5" "5-1" 1
LINE "C6" COLUMN "6" "6" 1
LINE "C6-1" COLUMN "6" "6-1" 1
LINE "C7" COLUMN "7" "7" 1
LINE "C7-1" COLUMN "7" "7-1" 1
LINE "C8" COLUMN "8" "8" 1
LINE "C8-1" COLUMN "8" "8-1" 1
LINE "C9" COLUMN "9" "9" 1
LINE "C9-1" COLUMN "9" "9-1" 1
LINE "C10" COLUMN "10" "10" 1
LINE "C10-1" COLUMN "10" "10-1" 1
LINE "C11" COLUMN "11" "11" 1
LINE "C11-1" COLUMN "11" "11-1" 1
LINE "C12" COLUMN "12" "12" 1
LINE "C12-1" COLUMN "12" "12-1" 1
LINE "C13" COLUMN "13" "13" 1
LINE "C13-1" COLUMN "13" "13-1" 1
LINE "C14" COLUMN "14" "14" 1
LINE "C14-1" COLUMN "14" "14-1" 1
LINE "C15" COLUMN "15" "15" 1
LINE "C15-1" COLUMN "15" "15-1" 1
LINE "C16" COLUMN "16" "16" 1
LINE "C16-1" COLUMN "16" "16-1" 1
LINE "C17" COLUMN "17" "17" 1
LINE "C17-1" COLUMN "17" "17-1" 1
LINE "C18" COLUMN "18" "18" 1
LINE "C18-1" COLUMN "18" "18-1" 1
LINE "C19" COLUMN "19" "19" 1
LINE "C19-1" COLUMN "19" "19-1" 1
LINE "C20" COLUMN "20" "20" 1
LINE "C20-1" COLUMN "20" "20-1" 1
LINE "C21" COLUMN "21" "21" 1
LINE "C21-1" COLUMN "21" "21-1" 1
LINE "C22" COLUMN "22" "22" 1
LINE "C22-1" COLUMN "22" "22-1" 1
LINE "C23" COLUMN "23" "23" 1
LINE "C23-1" COLUMN "23" "23-1" 1
LINE "C24" COLUMN "24" "24" 1
LINE "C24-1" COLUMN "24" "24-1" 1
LINE "C25" COLUMN "25" "25" 1
LINE "C25-1" COLUMN "25" "25-1" 1
LINE "C26" COLUMN "26" "26" 1
LINE "C26-1" COLUMN "26" "26-1" 1
LINE "C27" COLUMN "27" "27" 1
LINE "C27-1" COLUMN "27" "27-1" 1
LINE "C28" COLUMN "28" "28" 1
LINE "C28-1" COLUMN "28" "28-1" 1
LINE "C29" COLUMN "29" "29" 1
LINE "C29-1" COLUMN "29" "29-1" 1
LINE "C30" COLUMN "30" "30" 1
LINE "C30-1" COLUMN "30" "30-1" 1
LINE "C31" COLUMN "31" "31" 1
LINE "C31-1" COLUMN "31" "31-1" 1
LINE "C32" COLUMN "32" "32" 1
LINE "C32-1" COLUMN "32" "32-1" 1
LINE "C33" COLUMN "33" "33" 1
LINE "C33-1" COLUMN "33" "33-1" 1
LINE "C34" COLUMN "34" "34" 1
LINE "C34-1" COLUMN "34" "34-1" 1
LINE "C35" COLUMN "35" "35" 1
LINE "C35-1" COLUMN "35" "35-1" 1
LINE "C36" COLUMN "36" "36" 1

LINE "C36-1" COLUMN "36" "36-1" 1
LINE "C37" COLUMN "37" "37" 1
LINE "C37-1" COLUMN "37" "37-1" 1
LINE "C38" COLUMN "38" "38" 1
LINE "C38-1" COLUMN "38" "38-1" 1
LINE "C39" COLUMN "39" "39" 1
LINE "C39-1" COLUMN "39" "39-1" 1
LINE "C40" COLUMN "40" "40" 1
LINE "C40-1" COLUMN "40" "40-1" 1
LINE "B1" BEAM "1-1" "2-1" 0
LINE "B2" BEAM "2-1" "3-1" 0
LINE "B3" BEAM "3-1" "4-1" 0
LINE "B4" BEAM "4-1" "5-1" 0
LINE "B5" BEAM "5-1" "6-1" 0
LINE "B6" BEAM "6-1" "7-1" 0
LINE "B7" BEAM "7-1" "8-1" 0
LINE "B8" BEAM "8-1" "9-1" 0
LINE "B9" BEAM "9-1" "10-1" 0
LINE "B10" BEAM "10-1" "11-1" 0
LINE "B11" BEAM "11-1" "12-1" 0
LINE "B12" BEAM "12-1" "13-1" 0
LINE "B13" BEAM "13-1" "14-1" 0
LINE "B14" BEAM "14-1" "15-1" 0
LINE "B15" BEAM "15-1" "16-1" 0
LINE "B16" BEAM "16-1" "17-1" 0
LINE "B17" BEAM "17-1" "18-1" 0
LINE "B18" BEAM "18-1" "19-1" 0
LINE "B19" BEAM "19-1" "20-1" 0
LINE "B20" BEAM "20-1" "21-1" 0
LINE "B21" BEAM "21-1" "22-1" 0
LINE "B22" BEAM "22-1" "23-1" 0
LINE "B23" BEAM "23-1" "24-1" 0
LINE "B24" BEAM "24-1" "25-1" 0
LINE "B25" BEAM "25-1" "26-1" 0
LINE "B26" BEAM "26-1" "27-1" 0
LINE "B27" BEAM "27-1" "28-1" 0
LINE "B28" BEAM "28-1" "29-1" 0
LINE "B29" BEAM "29-1" "30-1" 0
LINE "B30" BEAM "30-1" "31-1" 0
LINE "B31" BEAM "31-1" "32-1" 0
LINE "B32" BEAM "32-1" "33-1" 0
LINE "B33" BEAM "33-1" "34-1" 0
LINE "B34" BEAM "34-1" "35-1" 0
LINE "B35" BEAM "35-1" "36-1" 0
LINE "B36" BEAM "36-1" "37-1" 0
LINE "B37" BEAM "37-1" "38-1" 0
LINE "B38" BEAM "38-1" "39-1" 0
LINE "B39" BEAM "39-1" "40-1" 0
LINE "B40" BEAM "40-1" "41-1" 0
LINE "B41" BEAM "41-1" "42-1" 0
LINE "B42" BEAM "42-1" "43-1" 0
LINE "B43" BEAM "43-1" "44-1" 0
LINE "B44" BEAM "44-1" "45-1" 0
LINE "B45" BEAM "45-1" "46-1" 0
LINE "B46" BEAM "46-1" "47-1" 0
LINE "B47" BEAM "47-1" "48-1" 0
LINE "B48" BEAM "48-1" "49-1" 0
LINE "B49" BEAM "49-1" "50-1" 0
LINE "B50" BEAM "50-1" "51-1" 0
LINE "B51" BEAM "51-1" "52-1" 0
LINE "B52" BEAM "52-1" "53-1" 0
LINE "B53" BEAM "53-1" "54-1" 0
LINE "B54" BEAM "54-1" "55-1" 0
LINE "B55" BEAM "55-1" "56-1" 0
LINE "B56" BEAM "56-1" "57-1" 0
LINE "B57" BEAM "57-1" "58-1" 0
LINE "B58" BEAM "58-1" "59-1" 0
LINE "B59" BEAM "59-1" "60-1" 0
LINE "B60" BEAM "60-1" "61-1" 0
LINE "B61" BEAM "61-1" "62-1" 0
LINE "B62" BEAM "62-1" "63-1" 0
LINE "B63" BEAM "63-1" "64-1" 0
LINE "B64" BEAM "64-1" "65-1" 0
LINE "B65" BEAM "65-1" "66-1" 0
LINE "B66" BEAM "66-1" "67-1" 0
LINE "B67" BEAM "67-1" "68-1" 0
LINE "B68" BEAM "68-1" "69-1" 0
LINE "B69" BEAM "69-1" "70-1" 0
LINE "B70" BEAM "70-1" "71-1" 0
LINE "B71" BEAM "71-1" "72-1" 0
LINE "B72" BEAM "72-1" "73-1" 0
LINE "B73" BEAM "73-1" "74-1" 0
LINE "B74" BEAM "74-1" "75-1" 0
LINE "B75" BEAM "75-1" "76-1" 0
LINE "B76" BEAM "76-1" "77-1" 0
LINE "B77" BEAM "77-1" "78-1" 0
LINE "B78" BEAM "78-1" "79-1" 0
LINE "B79" BEAM "79-1" "80-1" 0
LINE "B80" BEAM "80-1" "81-1" 0
LINE "B81" BEAM "81-1" "82-1" 0
LINE "B82" BEAM "82-1" "83-1" 0
LINE "B83" BEAM "83-1" "84-1" 0
LINE "B84" BEAM "84-1" "85-1" 0
LINE "B85" BEAM "85-1" "86-1" 0
LINE "B86" BEAM "86-1" "87-1" 0
LINE "B87" BEAM "87-1" "88-1" 0
LINE "B88" BEAM "88-1" "89-1" 0
LINE "B89" BEAM "89-1" "90-1" 0
LINE "B90" BEAM "90-1" "91-1" 0
LINE "B91" BEAM "91-1" "92-1" 0
LINE "B92" BEAM "92-1" "93-1" 0
LINE "B93" BEAM "93-1" "94-1" 0
LINE "B94" BEAM "94-1" "95-1" 0
LINE "B95" BEAM "95-1" "96-1" 0
LINE "B96" BEAM "96-1" "97-1" 0
LINE "B97" BEAM "97-1" "98-1" 0
LINE "B98" BEAM "98-1" "99-1" 0
LINE "B99" BEAM "99-1" "100-1" 0
LINE "B100" BEAM "100-1" "101-1" 0
LINE "B101" BEAM "101-1" "102-1" 0
LINE "B102" BEAM "102-1" "103-1" 0
LINE "B103" BEAM "103-1" "104-1" 0
LINE "B104" BEAM "104-1" "105-1" 0
LINE "B105" BEAM "105-1" "106-1" 0
LINE "B106" BEAM "106-1" "107-1" 0
LINE "B107" BEAM "107-1" "108-1" 0
LINE "B108" BEAM "108-1" "109-1" 0
LINE "B109" BEAM "109-1" "110-1" 0
LINE "B110" BEAM "110-1" "111-1" 0
LINE "B111" BEAM "111-1" "112-1" 0
LINE "B112" BEAM "112-1" "113-1" 0
LINE "B113" BEAM "113-1" "114-1" 0
LINE "B114" BEAM "114-1" "115-1" 0
LINE "B115" BEAM "115-1" "116-1" 0
LINE "B116" BEAM "116-1" "117-1" 0
LINE "B117" BEAM "117-1" "118-1" 0
LINE "B118" BEAM "118-1" "119-1" 0
LINE "B119" BEAM "119-1" "120-1" 0
LINE "B120" BEAM "120-1" "121-1" 0
LINE "B121" BEAM "121-1" "122-1" 0
LINE "B122" BEAM "122-1" "123-1" 0
LINE "B123" BEAM "123-1" "124-1" 0
LINE "B124" BEAM "124-1" "125-1" 0
LINE "B125" BEAM "125-1" "126-1" 0
LINE "B126" BEAM "126-1" "127-1" 0
LINE "B127" BEAM "127-1" "128-1" 0
LINE "B128" BEAM "128-1" "129-1" 0
LINE "B129" BEAM "129-1" "130-1" 0
LINE "B130" BEAM "130-1" "131-1" 0
LINE "B131" BEAM "131-1" "132-1" 0
LINE "B132" BEAM "132-1" "133-1" 0
LINE "B133" BEAM "133-1" "134-1" 0
LINE "B134" BEAM "134-1" "135-1" 0
LINE "B135" BEAM "135-1" "136-1" 0
LINE "B136" BEAM "136-1" "137-1" 0
LINE "B137" BEAM "137-1" "138-1" 0
LINE "B138" BEAM "138-1" "139-1" 0
LINE "B139" BEAM "139-1" "140-1" 0
LINE "B140" BEAM "140-1" "141-1" 0
LINE "B141" BEAM "141-1" "142-1" 0
LINE "B142" BEAM "142-1" "143-1" 0
LINE "B143" BEAM "143-1" "144-1" 0
LINE "B144" BEAM "144-1" "145-1" 0
LINE "B145" BEAM "145-1" "146-1" 0
LINE "B146" BEAM "146-1" "147-1" 0
LINE "B147" BEAM "147-1" "148-1" 0
LINE "B148" BEAM "148-1" "149-1" 0
LINE "B149" BEAM "149-1" "150-1" 0
LINE "B150" BEAM "150-1" "151-1" 0
LINE "B151" BEAM "151-1" "152-1" 0

COMBO 'DCON32' LOAD 'DL' SF 0.7
COMBO 'DCON32' LOAD 'SDL' SF 0.7
COMBO 'DCON32' LOAD 'EYN' SF -1.5
COMBO 'DCON33' TYPE 'ADD'
COMBO 'DCON33' LOAD 'DL' SF 0.7
COMBO 'DCON33' LOAD 'SDL' SF 0.7
COMBO 'DCON33' LOAD 'EYN' SF 1.5
COMBO 'DCON34' TYPE 'ADD'
COMBO 'DCON34' LOAD 'DL' SF 0.7
COMBO 'DCON34' LOAD 'SDL' SF 0.7
COMBO 'DCON34' LOAD 'EYN' SF -1.5
COMBO 'DCON35' TYPE 'ADD'
COMBO 'DCON35' LOAD 'DL' SF 0.7
COMBO 'DCON35' LOAD 'SDL' SF 0.7
COMBO 'DCON35' LOAD 'EYN' SF 1.5
COMBO 'DCON36' TYPE 'ADD'
COMBO 'DCON36' LOAD 'DL' SF 0.7
COMBO 'DCON36' LOAD 'SDL' SF 0.7
COMBO 'DCON36' LOAD 'EYN' SF -1.5
COMBO 'DCON37' TYPE 'ADD'
COMBO 'DCON37' LOAD 'DL' SF 0.7
COMBO 'DCON37' LOAD 'SDL' SF 0.7
COMBO 'DCON37' LOAD 'EYN' SF 1.5
COMBO 'DCON38' TYPE 'ADD'
COMBO 'DCON38' LOAD 'DL' SF 0.7
COMBO 'DCON38' LOAD 'SDL' SF 0.7
COMBO 'DCON38' LOAD 'EYN' SF -1.5

STEEL DESIGN PREFERENCES

STEELPREFERENCE CODE 'ASCC-LRFD93' THIDESGN 'EVERYSTP' FRAMETYPE 'MOMENT FRAME'
STEELPREFERENCE PHIBLRFD 0.9 PHICLRFD 0.85 PHITLRFD 0.9 PHIVLRFD 0.9 PHICANGLELRFD 0.9
STEELPREFERENCE PHIBLRFD 0.9 PHICLRFD 0.85 PHITLRFD 0.9 PHIVLRFD 0.9 PHICANGLELRFD 0.9
STEELPREFERENCE CONSIDERDEFLECTION 'NO' RELATIVEDEFLECTION 'RATIO'
STEELPREFERENCE DLDEFLECTIONLIMIT 130 SLDEFLECTIONLIMIT 130 LDEFLECTIONLIMIT 360 TLDEFLECTIONLIMIT 240 TLMCDEFLECTIONLIMIT
STEELPREFERENCE DLDEFLECTIONLIMITABS 2.54 SLDEFLECTIONLIMITABS 2.54 LDEFLECTIONLIMITABS 5.4 TLDEFLECTIONLIMITABS 2.54
STEELPREFERENCE CALCULATCAMBER 'NO' PERCENTCAMBERWDL 1 CAMBERRELMAXLIMIT 180 CAMBERKNORELIMIT 1.905
STEELPREFERENCE CAMBERABSMAXLIMIT 10.16 CAMBERINTERVAL 0.635 CAMBERROUNDOWN 'YES'
STEELPREFERENCE PATTERNLLF 0.75 MAXITERATION 1 SRLIMIT 1.05

CONCRETE DESIGN PREFERENCES

CONCRETEPREFERENCE CODE 'ACI 318-02' THIDESGN 'EVERYSTP' CONSIDERMINECENTRICITY 'YES'
CONCRETEPREFERENCE NUMINTERCURVES 24 NUMINTERPOINTS 11 PATTERNLLF 0.75 UFLIMIT 1
CONCRETEPREFERENCE SDC 'D' PHITENSIONCTRL 0.9 PHICOMPRESSIONCTRLTED 0.65 PHICOMPRESSIONCTRLSPRAL 0.7 PHISHEARTORSION

COMPOSITE DESIGN PREFERENCES

COMPOSITEPREFERENCE CODE 'ASCC-LRFD93'
COMPOSITEPREFERENCE PHIB 0.9 PHIBCN 0.9 PHIBCPN 0.85 PHIBCP 0.9 PHIBCP 0.85 PHIB 0.9
COMPOSITEPREFERENCE SHORER 'NO' SMIDDERANGE 70 PATTERNLLF 0.75 SRLIMIT 1 SINGLESEGMENT 'NO' STUDINCREASEFACTOR 1
COMPOSITEPREFERENCE DLLIMIT 0 SLLIMIT 240 LLLIMIT 360 TLLIMIT 240 CREEFFACTOR 1
COMPOSITEPREFERENCE %DLCAMBER 100 CAMBERKNORE 1.905 CAMBERABSMAX 160 CAMBERRELMAX 180 CAMBERINTERVAL 0.635
COMPOSITEPREFERENCE %VIBLL 25 CONSIDERFREQ 'NO' MINFREQ 8 CONSIDERDAMP 'NO' %INHERENTDAMP 4
COMPOSITEPREFERENCE OPTIMIZEPRICE 'NO' CONNECTORPRICE 0 CAMBERPRICE 0

WALL DESIGN PREFERENCES

WALLPREFERENCE CODE 'UBC97' THIDESGN 'EVERYSTP'
WALLPREFERENCE REBARUNITS 'in' REBARLENGTHUNITS 'in/2ft'
WALLPREFERENCE PHIB 0.9 PHICLRFD 0.85 PHITLRFD 0.9 PHIVLRFD 0.9 PHICANGLELRFD 0.9
WALLPREFERENCE NUMCURVES 24 NUMPOINTS 11
WALLPREFERENCE PTMAX 0.06 PCMAX 0.4 PIMAX 0.02 PIMIN 0.025
WALLPREFERENCE UFLIMIT 0.95

5 DIMENSION LINES

5 LOG

5 START COMMENTS

ETABS Display 9.5.0 File imported from E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.SET at 2022/8/4 上午 11:12:12
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 11:22:48
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:39:27
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:40:26
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:41:18
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:42:28
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:44:15
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:47:36
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:49:25
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:50:36
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:51:35
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:51:47
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 05:56:02
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 09:25:15
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 09:25:28
ETABS Display 9.5.0 File imported from E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.SET at 2022/8/4 上午 09:25:46
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/4 上午 09:25:53
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/4 上午 09:28:29
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/4 上午 09:28:41
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/4 上午 09:29:08
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/4 上午 09:31:27
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/4 上午 09:31:36
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 06:29:31
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 09:05:27
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 09:20:11
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 09:22:00
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 09:25:18
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 09:26:44
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 09:27:24
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 10:06:51
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 10:25:48
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/10 上午 10:27:53
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/11 上午 08:30:23
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/11 上午 09:30:32
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/11 上午 09:36:54
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/11 上午 09:43:40
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/11 上午 11:21:16
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 09:41:04
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 09:41:46
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 09:44:47
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 09:44:54
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:45:32
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:45:57
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:46:24
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:46:31
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 11:15:16
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 11:45:49
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 11:46:25
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 11:46:32
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/12 上午 11:52:58
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 11:53:54
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 03:51:30
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 03:51:00
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 03:51:26
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 04:06:17
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 04:17:44
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 05:51:19
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:06:19
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:07:09
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:09:26
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:10:50
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:11:47
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:15:53
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:16:59
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:17:07
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:17:17
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:21:35
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 06:34:34
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 07:57:35
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 08:58:34
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 08:59:29
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:02:50
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:03:20
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:03:35
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:06:46
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:06:57
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 09:10:52
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/13 上午 11:55:47
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/15 上午 11:56:01
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/15 上午 11:57:28
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/15 上午 12:03:32
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSSC1-2\220804\2208A-SC1-2-220804-001.EDB at 2022/8/15 上午 10:55:29

5 END COMMENTS

5 END

5 END OF MODEL FILE

STEEL CODE PREFERENCES

Steel Design Code : AISC-LRF03
 Time History Type : Step-by-Step
 Frame Type : Moment Frame
 Phi(Bending) : 0.9
 Phi(Compression) : 0.85
 Phi(Tension) : 0.9
 Phi(Shear) : 0.9
 Phi(Compression, Angle) : 0.9
 Consider Deflection? : No
 Deflection Check Type : Ratio
 DL Limit, L/ : 240
 Super DL+LL Limit, L/ : 120
 Live Load Limit, L/ : 360
 Total Load Limit, L/ : 240
 Total-Camber Limit, L/ : 240
 DL Limit, abs : 2.54
 Super DL+LL Limit, abs : 2.54
 Live Load Limit, abs : 2.54
 Total Load Limit, abs : 2.54
 Total-Camber Limit, abs : 2.54
 Pattern Live Load Factor : 0.75
 Stress Ratio Limit : 1.05
 Maximum Auto Iteration : 1

COLUMN STEEL STRESS CHECK ELEMENT INFORMATION (AISC-LRF03)

STORY	COLUMN	SECTION	FRAMING	RLFL	RATIO	K	K	
LEVEL	LINE ID	TYPE	FACTOR	MAJOR	MINOR	MAJOR	MINOR	
2F	C1	U100X100X2.0	MOMENT	1.000	0.949	0.949	1.576	1.000
2F	C2	U100X100X2.0	MOMENT	1.000	0.949	0.949	1.450	1.000
2F	C3	U100X100X2.0	MOMENT	1.000	0.949	0.949	1.456	1.000
2F	C4	U100X100X2.0	MOMENT	1.000	0.949	0.949	1.588	1.000
2F	C5	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.732	1.850
2F	C6	U100X100X2.0	MOMENT	1.000	0.956	0.956	2.046	2.861
2F	C7	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.583	1.850
2F	C8	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C9	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.575	1.850
2F	C10	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C11	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.787	1.850
2F	C12	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C13	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.576	1.850
2F	C14	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C15	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.583	1.850
2F	C16	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C17	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.575	1.850
2F	C18	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C19	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.787	1.850
2F	C20	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C21	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.576	1.850
2F	C22	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C23	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.583	1.850
2F	C24	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C25	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.575	1.850
2F	C26	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C27	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.787	1.850
2F	C28	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C29	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.576	1.850
2F	C30	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C31	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.583	1.850
2F	C32	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C33	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.575	1.850
2F	C34	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C35	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.787	1.850
2F	C36	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861
2F	C37	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.576	1.850
2F	C38	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.691	2.861
2F	C39	U100X100X2.0	MOMENT	1.000	0.961	0.961	1.583	1.850
2F	C40	U100X100X2.0	MOMENT	1.000	0.956	0.956	1.707	2.861

BEAM STEEL STRESS CHECK ELEMENT INFORMATION (AISC-LRF03)

STORY	BEAM	SECTION	FRAMING	RLFL	RATIO	K	K	
LEVEL	BAY ID	TYPE	FACTOR	MAJOR	MINOR	MAJOR	MINOR	
2F	B1	28C125X50X2.0	MOMENT	1.000	0.952	0.952	1.000	1.000
2F	B2	28C125X50X2.0	MOMENT	1.000	0.970	0.970	1.000	1.000
2F	B3	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B4	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B5	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B6	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B7	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B8	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B9	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B10	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B11	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B12	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B13	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B14	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B15	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B16	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B17	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B18	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B19	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B20	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B21	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B22	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B23	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B24	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B25	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B26	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B27	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B28	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B29	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B30	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B31	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B32	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B33	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B34	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B35	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B36	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B37	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B38	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000
2F	B39	28C125X50X2.0	MOMENT	1.000	0.954	0.954	1.000	1.000

PRF	B40	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B41	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B42	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B43	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B44	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B45	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B46	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B47	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B48	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B49	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B50	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B51	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B52	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B53	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B54	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B55	Z125X50X2.0	MOMENT	1.000	0.950	0.950	1.000	1.000
2F	B56	Z125X50X2.0	MOMENT	1.000	0.956	0.956	1.000	1.000
2F	B57	Z125X50X2.0	MOMENT	1.000	0.950	0.950	1.000	1.000
2F	B58	Z125X50X2.0	MOMENT	1.000	0.950	0.950	1.000	1.000
2F	B59	Z125X50X2.0	MOMENT	1.000	0.956	0.956	1.000	1.000
2F	B60	Z125X50X2.0	MOMENT	1.000	0.950	0.950	1.000	1.000
2F	B61	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B62	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B63	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B64	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B65	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B66	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B67	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B68	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B69	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B70	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B71	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B72	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B73	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B74	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B75	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B76	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B77	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B78	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B79	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
2F	B80	Z125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000
PRF	B81	C125X50X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000

	02RC02(T)	0.217 = 0.000 + 0.217 + 0.000		02RC17(C)	0.026 = 0.005 + 0.017 + 0.004	
2F	B160 Z125X50X20X2.0	02RC02(T) 0.512 = 0.000 + 0.512 + 0.000	02RC02	0.081	02RC72	0.000
	02RC02(T)	0.512 = 0.000 + 0.512 + 0.000		02RC68(T)	0.051 = 0.023 + 0.019 + 0.009	
2F	B161 Z125X50X20X2.0	02RC02(T) 0.512 = 0.000 + 0.512 + 0.000	02RC02	0.081	02RC72	0.000
	02RC02(T)	0.512 = 0.000 + 0.512 + 0.000		02RC67(C)	0.074 = 0.001 + 0.001 + 0.071	
2F	B162 Z125X50X20X2.0	02RC02(T) 0.217 = 0.000 + 0.217 + 0.000	02RC02	0.053	02RC72	0.000
	02RC02(T)	0.217 = 0.000 + 0.217 + 0.000		02RC68(T)	0.144 = 0.053 + 0.080 + 0.011	
PRF	B163 C125X50X20X2.0	02RC68(C) 0.151 = 0.000 + 0.151 + 0.000	02RC71	0.058	02RC72	0.000
	02RC71(T)	0.227 = 0.000 + 0.227 + 0.000		02RC68(T)	0.068 = 0.022 + 0.021 + 0.025	
PRF	B164 C125X50X20X2.0	02RC71(T) 0.536 = 0.000 + 0.536 + 0.000	02RC71	0.088	02RC72	0.000
	02RC71(T)	0.536 = 0.000 + 0.536 + 0.000		02RC13(C)	0.012 = 0.006 + 0.001 + 0.004	
PRF	B165 C125X50X20X2.0	02RC71(T) 0.208 = 0.000 + 0.208 + 0.000	02RC71	0.058	02RC72	0.000
	02RC71(T)	0.208 = 0.000 + 0.208 + 0.000		02RC68(T)	0.044 = 0.020 + 0.014 + 0.010	
PRF	B166 C125X50X20X2.0	02RC71(T) 0.536 = 0.000 + 0.536 + 0.000	02RC71	0.088	02RC72	0.000
	02RC71(T)	0.536 = 0.000 + 0.536 + 0.000		02RC11(C)	0.033 = 0.007 + 0.006 + 0.021	
PRF	B167 C125X50X20X2.0	02RC71(C) 0.227 = 0.000 + 0.227 + 0.000	02RC71	0.058	02RC72	0.000
	02RC02(T)	0.085 = 0.000 + 0.085 + 0.000		02RC72(T)	0.132 = 0.052 + 0.072 + 0.008	
2F	B168 2SC125X50X20X2	02RC67(T) 0.203 = 0.000 + 0.203 + 0.000	02RC67	0.125	02RC72	0.000
	02RC67(T)	0.203 = 0.000 + 0.203 + 0.000		02RC13(C)	0.029 = 0.004 + 0.023 + 0.003	
PRF	B169 2SC125X50X20X2	02RC71(T) 0.136 = 0.000 + 0.136 + 0.000	02RC71	0.082	02RC72	0.000
	02RC71(T)	0.136 = 0.000 + 0.136 + 0.000		02RC68(T)	0.068 = 0.022 + 0.021 + 0.025	
2F	B170 2SC125X50X20X2	02RC02(T) 0.167 = 0.000 + 0.167 + 0.000	02RC02	0.081	02RC72	0.000
	02RC02(T)	0.167 = 0.000 + 0.167 + 0.000		02RC03(C)	0.037 = 0.008 + 0.006 + 0.023	
PRF	B171 2SC125X50X20X2	02RC71(T) 0.179 = 0.000 + 0.179 + 0.000	02RC71	0.088	02RC72	0.000
	02RC71(T)	0.179 = 0.000 + 0.179 + 0.000		02RC68(T)	0.124 = 0.042 + 0.067 + 0.015	
2F	B172 2SC125X50X20X2	02RC67(T) 0.141 = 0.000 + 0.141 + 0.000	02RC67	0.060	02RC72	0.000
	02RC67(T)	0.141 = 0.000 + 0.141 + 0.000		02RC67(C)	0.036 = 0.012 + 0.009 + 0.015	
PRF	B173 2SC125X50X20X2	02RC71(T) 0.117 = 0.000 + 0.117 + 0.000	02RC71	0.064	02RC72	0.000
	02RC71(T)	0.117 = 0.000 + 0.117 + 0.000		02RC68(T)	0.040 = 0.026 + 0.012 + 0.002	
2F	B174 2SC125X50X20X2	02RC02(T) 0.163 = 0.000 + 0.163 + 0.000	02RC02	0.081	02RC72	0.000
	02RC02(T)	0.163 = 0.000 + 0.163 + 0.000		02RC68(T)	0.116 = 0.053 + 0.055 + 0.007	
PRF	B175 2SC125X50X20X2	02RC71(T) 0.189 = 0.000 + 0.189 + 0.000	02RC71	0.089	02RC72	0.000
	02RC71(T)	0.189 = 0.000 + 0.189 + 0.000		02RC68(T)	0.157 = 0.070 + 0.002 + 0.086	
2F	B176 2SC125X50X20X2	02RC67(T) 0.177 = 0.000 + 0.177 + 0.000	02RC67	0.106	02RC72	0.000
	02RC67(T)	0.177 = 0.000 + 0.177 + 0.000		02RC11(C)	0.035 = 0.015 + 0.018 + 0.001	
PRF	B177 2SC125X50X20X2	02RC71(T) 0.128 = 0.000 + 0.128 + 0.000	02RC71	0.083	02RC72	0.000
	02RC67(T)	0.128 = 0.000 + 0.128 + 0.000		02RC68(T)	0.096 = 0.026 + 0.014 + 0.055	
				02RC67(T)	0.135 = 0.058 + 0.061 + 0.016	
				02RC68(T)	0.036 = 0.016 + 0.006 + 0.013	
				02RC71(T)	0.037 = 0.025 + 0.008 + 0.004	

ETABS v9.5.0 File:2208A-SC2-4-220813-001 Units:Kgf-cm August 16, 2022 13:56 PAGE 7

BRACE STEEL STRESS CHECK OUTPUT (ASC-LRFD95)

STORY BRACE SECTION /-----MOMENT INTERACTION CHECK-----/---SHEAR2---/---SHEAR3---/
 LEVEL BAY ID COMBO RATIO = AXL + B33 + B22 COMBO RATIO COMBO RATIO

2F	D1	2SC125X50X20X2	02RC68	0.082	02RC67	0.006
		02RC71(C)	0.205 = 0.001 + 0.134 + 0.070			
		02RC68(T)	0.221 = 0.025 + 0.188 + 0.008			
2F	D2	2SC125X50X20X2	02RC71	0.206	02RC71	0.010
		02RC13(C)	0.120 = 0.004 + 0.005 + 0.031			
		02RC71(T)	0.405 = 0.001 + 0.339 + 0.064			
2F	D3	2SC125X50X20X2	02RC71	0.204	02RC67	0.010
		02RC13(C)	0.097 = 0.003 + 0.093 + 0.002			
		02RC71(T)	0.407 = 0.008 + 0.315 + 0.084			
2F	D4	2SC125X50X20X2	02RC71	0.082	02RC67	0.006
		02RC03(C)	0.070 = 0.003 + 0.040 + 0.028			
		02RC68(T)	0.204 = 0.020 + 0.175 + 0.010			
2F	D5	U100X100X2.0	02RC67	0.011	02RC72	0.014
		02RC67(C)	0.322 = 0.239 + 0.065 + 0.018			
		02RC68(T)	0.141 = 0.051 + 0.007 + 0.084			
PRF	D6	U100X100X2.0	02RC67	0.005	02RC68	0.002
		02RC67(C)	0.066 = 0.046 + 0.018 + 0.002			
		02RC68(T)	0.056 = 0.027 + 0.008 + 0.020			
2F	D7	U100X100X2.0	02RC67	0.012	02RC68	0.016
		02RC15(C)	0.039 = 0.025 + 0.012 + 0.001			
		02RC67(T)	0.190 = 0.098 + 0.078 + 0.014			
PRF	D8	U100X100X2.0	02RC67	0.003	02RC68	0.002
		02RC15(C)	0.018 = 0.012 + 0.003 + 0.003			
		02RC71(T)	0.055 = 0.041 + 0.007 + 0.007			
PRF	D9	U100X100X2.0	02RC17	0.002	02RC67	0.002
		02RC72(C)	0.066 = 0.049 + 0.013 + 0.003			
		02RC67(T)	0.049 = 0.032 + 0.001 + 0.015			
2F	D10	U100X100X2.0	02RC68	0.013	02RC71	0.013
		02RC68(C)	0.333 = 0.254 + 0.071 + 0.008			
		02RC71(T)	0.162 = 0.068 + 0.017 + 0.077			
PRF	D11	U100X100X2.0	02RC68	0.005	02RC71	0.003
		02RC68(C)	0.055 = 0.027 + 0.024 + 0.005			
		02RC67(T)	0.025 = 0.005 + 0.004 + 0.016			
2F	D12	U100X100X2.0	02RC72	0.022	02RC67	0.017
		02RC68(C)	0.198 = 0.095 + 0.100 + 0.003			
		02RC71(T)	0.111 = 0.013 + 0.012 + 0.086			
PRF	D13	U100X100X2.0	02RC68	0.006	02RC71	0.005
		02RC68(C)	0.056 = 0.026 + 0.025 + 0.005			
		02RC71(T)	0.053 = 0.002 + 0.015 + 0.036			
2F	D14	U100X100X2.0	02RC68	0.023	02RC71	0.015
		02RC68(C)	0.201 = 0.091 + 0.098 + 0.011			
		02RC71(T)	0.103 = 0.009 + 0.013 + 0.082			
PRF	D15	U100X100X2.0	02RC02	0.002	02RC71	0.002
		02RC67(C)	0.057 = 0.035 + 0.005 + 0.016			
		02RC13(C)	0.016 = 0.009 + 0.006 + 0.000			
2F	D16	U100X100X2.0	02RC68	0.015	02RC67	0.013
		02RC67(C)	0.162 = 0.077 + 0.008 + 0.078			
		02RC46(T)	0.027 = 0.012 + 0.015 + 0.000			
PRF	D17	2SC125X50X20X2	02RC71	0.046	02RC67	0.026
		02RC72(C)	0.110 = 0.074 + 0.036 + 0.000			
		02RC71(T)	0.119 = 0.033 + 0.044 + 0.042			
PRF	D18	2SC125X50X20X2	02RC71	0.117	02RC68	0.007
		02RC71(C)	0.191 = 0.089 + 0.099 + 0.003			
		02RC71(T)	0.148 = 0.080 + 0.054 + 0.015			
PRF	D19	2SC125X50X20X2	02RC71	0.079	02RC71	0.026
		02RC68(C)	0.232 = 0.202 + 0.018 + 0.011			
		02RC71(T)	0.162 = 0.052 + 0.068 + 0.042			
PRF	D20	2SC125X50X20X2	02RC71	0.080	02RC67	0.024
		02RC68(C)	0.128 = 0.096 + 0.023 + 0.010			
		02RC71(T)	0.158 = 0.050 + 0.069 + 0.039			
PRF	D21	2SC125X50X20X2	02RC71	0.122	02RC71	0.015
		02RC71(C)	0.208 = 0.094 + 0.105 + 0.009			
		02RC71(T)	0.186 = 0.075 + 0.057 + 0.054			
PRF	D22	2SC125X50X20X2	02RC71	0.062	02RC67	0.026
		02RC71(C)	0.102 = 0.034 + 0.056 + 0.012			
		02RC71(T)	0.104 = 0.037 + 0.057 + 0.010			
2F	D23	U100X100X2.0	02RC71	0.011	02RC72	0.018
		02RC67(C)	0.164 = 0.074 + 0.068 + 0.022			
		02RC43(T)	0.029 = 0.011 + 0.017 + 0.001			
PRF	D24	U100X100X2.0	02RC67	0.007	02RC72	0.003
		02RC67(C)	0.058 = 0.020 + 0.034 + 0.004			
		02RC44(T)	0.015 = 0.006 + 0.008 + 0.001			
2F	D25	U100X100X2.0	02RC67	0.012	02RC72	0.012
		02RC68(C)	0.070 = 0.008 + 0.003 + 0.058			
		02RC71(T)	0.152 = 0.063 + 0.072 + 0.017			
PRF	D26	U100X100X2.0	02RC67	0.006	02RC72	0.002
		02RC68(C)	0.026 = 0.004 + 0.001 + 0.022			
		02RC71(T)	0.059 = 0.025 + 0.029 + 0.005			
PRF	D27	2SC125X50X20X2	02RC71	0.059	02RC71	0.024
		02RC67(C)	0.100 = 0.026 + 0.040 + 0.034			
		02RC71(T)	0.134 = 0.037 + 0.060 + 0.038			
PRF	D28	2SC125X50X20X2	02RC71	0.098	02RC67	0.021
		02RC68(C)	0.141 = 0.051 + 0.087 + 0.004			
		02RC71(T)	0.190 = 0.065 + 0.090 + 0.034			
PRF	D29	2SC125X50X20X2	02RC71	0.092	02RC71	0.025
		02RC68(C)	0.127 = 0.045 + 0.079 + 0.003			
		02RC71(T)	0.185 = 0.062 + 0.083 + 0.040			
PRF	D30	2SC125X50X20X2	02RC71	0.090	02RC71	0.022
		02RC68(C)	0.124 = 0.045 + 0.077 + 0.002			
		02RC71(T)	0.178 = 0.062 + 0.081 + 0.035			
PRF	D31	2SC125X50X20X2	02RC71	0.097	02RC71	0.024
		02RC68(C)	0.137 = 0.054 + 0.083 + 0.000			
		02RC71(T)	0.197 = 0.071 + 0.088 + 0.039			
PRF	D32	2SC125X50X20X2	02RC68	0.039	02RC67	0.024
		02RC68(C)	0.060 = 0.017 + 0.039 + 0.003			
		02RC71(T)	0.093 = 0.038 + 0.016 + 0.039			
PRF	D33	U100X100X2.0	02RC68	0.004	02	

S File E:\WORK\2022\208\AMODEL\SAFE\SC2-4\220813\2208A-SC2-4\220813-001.LUE saved 8/16/22 13:56:34 in Kgf.cm
SAFE 8.1.0
UNITS Kgf cm
\$ TITLES
TITLE1 "Lo-Lat Structure Studio"
TITLE2 ""
\$ GRIDS
GRID "GLOBAL" X "1" 0
GRID "GLOBAL" X "2" 217.5
GRID "GLOBAL" X "3" 548.5
GRID "GLOBAL" X "4" 756.5
GRID "GLOBAL" X "5" 1087.5
GRID "GLOBAL" X "6" 1305
GRID "GLOBAL" Y "0A" 0
GRID "GLOBAL" Y "A" 202.5
GRID "GLOBAL" Y "B" 500
GRID "GLOBAL" Y "C" 857.5
MESH MAX 100
\$ BEAM PROPERTIES
BEAMPROP "RB60X40C4" E 250998 U 0.2 W 0.0024
BEAMPROP "RB60X40C4" TYPE R D 60 D 40
BEAMPROP "RB60X40C4" DSSSEC 0
BEAMPROP "RB60X40C4" BDESKN 60 DDESKN 40
BEAMPROP "RB60X40C4" CT 8 CB 8
BEAMPROP "RB60X40C4" FC 280 FY 4200 FYS 4200 FCS 280
\$ SLAB PROPERTIES
SLABPROP "S40" E 250998 U 0.2 W 0.0024
SLABPROP "S40" T 40 TYPE THICK
SLABPROP "S40" CT 8 CB 8
SLABPROP "S40" FC 280 FY 4200
SLABPROP "Csl_Slab" E 250998 U 0.2 W 0.0024
SLABPROP "Csl_Slab" T 200 TYPE THICK
SLABPROP "Csl_Slab" DESKIN NO
\$ COLUMN PROPERTIES
\$ WALL PROPERTIES
\$ SOIL PROPERTIES
SOILPROP "SOIL" K 1
\$ POINT COORDINATES
POINT "17" 0 202.5
POINT "19" 217.5 202.5
POINT "20" 548.5 202.5
POINT "21" 756.5 202.5
POINT "22" 1087.5 202.5
POINT "24" 1305 202.5
POINT "93" 0 500
POINT "95" 217.5 500
POINT "96" 548.5 500
POINT "98" 756.5 500
POINT "99" 1087.5 500
POINT "101" 1305 500
POINT "179" 0 857.5
POINT "181" 217.5 857.5
POINT "182" 548.5 857.5
POINT "183" 756.5 857.5
POINT "184" 1087.5 857.5
POINT "186" 1305 857.5
POINT "1" 548.5 0
POINT "4" 1305 0
POINT "53" 0 322.5
POINT "154" 0 737.5
POINT "155" 217.5 737.5
POINT "54" 548.5 322.5
POINT "156" 548.5 737.5
POINT "55" 756.5 322.5
POINT "158" 756.5 737.5
POINT "2" 756.5 0
POINT "56" 1305 322.5
POINT "160" 1305 737.5
POINT "159" 1087.5 737.5
POINT "3" 1087.5 0
POINT "18" 120 202.5
POINT "23" 1185 202.5
POINT "180" 120 857.5
POINT "185" 1185 857.5
POINT "94" 120 500
POINT "100" 1185 500
POINT "122" 652.5 618.75
POINT "126" 756.5 619.1633
\$ LINE CONNECTIVITY
LINE "B20" 0 202.5 217.5 202.5
LINE "B22" 217.5 202.5 548.5 202.5
LINE "B24" 548.5 202.5 756.5 202.5
LINE "B26" 756.5 202.5 1087.5 202.5
LINE "B28" 1087.5 202.5 1305 202.5
LINE "B86" 0 500 217.5 500
LINE "B88" 217.5 500 548.5 500
LINE "B90" 548.5 500 756.5 500
LINE "B92" 756.5 500 1087.5 500
LINE "B94" 1087.5 500 1305 500
LINE "B168" 0 857.5 217.5 857.5
LINE "B170" 217.5 857.5 548.5 857.5
LINE "B172" 548.5 857.5 756.5 857.5
LINE "B174" 756.5 857.5 1087.5 857.5
LINE "B176" 1087.5 857.5 1305 857.5
LINE "B55" 0 202.5 0 500
LINE "B133" 0 500 0 857.5
LINE "B59" 217.5 202.5 217.5 500
LINE "B135" 217.5 500 217.5 857.5
LINE "B57" 548.5 202.5 548.5 500
LINE "B137" 548.5 500 548.5 857.5
LINE "B58" 756.5 202.5 756.5 500
LINE "B139" 756.5 500 756.5 857.5
LINE "B59" 1087.5 202.5 1087.5 500
LINE "B141" 1087.5 500 1087.5 857.5
LINE "B60" 1305 202.5 1305 500
LINE "B143" 1305 500 1305 857.5
LINE "B7" 548.5 0 1305 0
LINE "B15" 1305 0 1305 202.5
LINE "B8" 548.5 0 548.5 202.5
\$ AREA CONNECTIVITY
AREA "F2" 4 0 202.5 217.5 202.5 217.5 500 0 500
AREA "F3" 4 217.5 202.5 548.5 202.5 548.5 500 217.5 500
AREA "F4" 4 548.5 202.5 756.5 202.5 756.5 500 548.5 500
AREA "F1" 4 548.5 202.5 548.5 0 1305 0 1305 202.5
AREA "F5" 4 756.5 202.5 1087.5 202.5 1087.5 500 756.5 500
AREA "F6" 4 1087.5 202.5 1305 202.5 1305 500 1087.5 500
AREA "F7" 4 0 500 217.5 500 217.5 857.5 0 857.5
AREA "F8" 4 217.5 500 548.5 500 548.5 857.5 217.5 857.5
AREA "F9" 4 548.5 500 756.5 500 756.5 857.5 548.5 857.5
AREA "F10" 4 756.5 500 1087.5 500 1087.5 857.5 756.5 857.5
AREA "F11" 4 1087.5 500 1305 500 1305 857.5 1087.5 857.5
\$ BEAM ASSIGNS
BEAM "B20" "RB60X40C4"
BEAM "B22" "RB60X40C4"
BEAM "B24" "RB60X40C4"
BEAM "B26" "RB60X40C4"
BEAM "B28" "RB60X40C4"
BEAM "B30" "RB60X40C4"
BEAM "B32" "RB60X40C4"
BEAM "B34" "RB60X40C4"
BEAM "B36" "RB60X40C4"
BEAM "B38" "RB60X40C4"
BEAM "B40" "RB60X40C4"
BEAM "B42" "RB60X40C4"
BEAM "B44" "RB60X40C4"
BEAM "B46" "RB60X40C4"
BEAM "B48" "RB60X40C4"
BEAM "B50" "RB60X40C4"
BEAM "B52" "RB60X40C4"
BEAM "B54" "RB60X40C4"
BEAM "B56" "RB60X40C4"
BEAM "B58" "RB60X40C4"
BEAM "B60" "RB60X40C4"
BEAM "B62" "RB60X40C4"
BEAM "B64" "RB60X40C4"
BEAM "B66" "RB60X40C4"
BEAM "B68" "RB60X40C4"
BEAM "B70" "RB60X40C4"
BEAM "B72" "RB60X40C4"
BEAM "B74" "RB60X40C4"
BEAM "B76" "RB60X40C4"
BEAM "B78" "RB60X40C4"
BEAM "B80" "RB60X40C4"
BEAM "B82" "RB60X40C4"
BEAM "B84" "RB60X40C4"
BEAM "B86" "RB60X40C4"
BEAM "B88" "RB60X40C4"
BEAM "B90" "RB60X40C4"
BEAM "B92" "RB60X40C4"
BEAM "B94" "RB60X40C4"
BEAM "B96" "RB60X40C4"
BEAM "B98" "RB60X40C4"
BEAM "B100" "RB60X40C4"
BEAM "B102" "RB60X40C4"
BEAM "B104" "RB60X40C4"
BEAM "B106" "RB60X40C4"
BEAM "B108" "RB60X40C4"
BEAM "B110" "RB60X40C4"
BEAM "B112" "RB60X40C4"
BEAM "B114" "RB60X40C4"
BEAM "B116" "RB60X40C4"
BEAM "B118" "RB60X40C4"
BEAM "B120" "RB60X40C4"
BEAM "B122" "RB60X40C4"
BEAM "B124" "RB60X40C4"
BEAM "B126" "RB60X40C4"
BEAM "B128" "RB60X40C4"
BEAM "B130" "RB60X40C4"
BEAM "B132" "RB60X40C4"
BEAM "B134" "RB60X40C4"
BEAM "B136" "RB60X40C4"
BEAM "B138" "RB60X40C4"
BEAM "B140" "RB60X40C4"
BEAM "B142" "RB60X40C4"
BEAM "B144" "RB60X40C4"
BEAM "B146" "RB60X40C4"
BEAM "B148" "RB60X40C4"
BEAM "B150" "RB60X40C4"
BEAM "B152" "RB60X40C4"
BEAM "B154" "RB60X40C4"
BEAM "B156" "RB60X40C4"
BEAM "B158" "RB60X40C4"
BEAM "B160" "RB60X40C4"
BEAM "B162" "RB60X40C4"
BEAM "B164" "RB60X40C4"
BEAM "B166" "RB60X40C4"
BEAM "B168" "RB60X40C4"
BEAM "B170" "RB60X40C4"
BEAM "B172" "RB60X40C4"
BEAM "B174" "RB60X40C4"
BEAM "B176" "RB60X40C4"
BEAM "B178" "RB60X40C4"
BEAM "B180" "RB60X40C4"
BEAM "B182" "RB60X40C4"
BEAM "B184" "RB60X40C4"
BEAM "B186" "RB60X40C4"
BEAM "B188" "RB60X40C4"
BEAM "B190" "RB60X40C4"
BEAM "B192" "RB60X40C4"
BEAM "B194" "RB60X40C4"
BEAM "B196" "RB60X40C4"
BEAM "B198" "RB60X40C4"
BEAM "B200" "RB60X40C4"
\$ SLAB ASSIGNS
SLAB "F2" "S40"
SLAB "F3" "S40"
SLAB "F4" "S40"

SLAB "F1" "S40"
SLAB "F5" "S40"
SLAB "F6" "S40"
SLAB "F7" "S40"
SLAB "F8" "S40"
SLAB "F9" "S40"
SLAB "F10" "S40"
SLAB "F11" "S40"
\$ COLUMN ASSIGNS
\$ WALL ASSIGNS
\$ SOIL ASSIGNS
SOIL "F2" "SOIL1"
SOIL "F3" "SOIL1"
SOIL "F4" "SOIL1"
SOIL "F1" "SOIL1"
SOIL "F5" "SOIL1"
SOIL "F6" "SOIL1"
SOIL "F7" "SOIL1"
SOIL "F8" "SOIL1"
SOIL "F9" "SOIL1"
SOIL "F10" "SOIL1"
SOIL "F11" "SOIL1"
\$ RELEASE ASSIGNS
\$ LOADS
LOAD "DL" TYPE DEAD SELFWEIGHT 1 LTRFACTOR 3
POINTLOAD "DL" "17" F 7319138 MX 16.96975 MY -52.26693
POINTLOAD "DL" "93" F 11211716 MX -11.56777 MY -63.95222
POINTLOAD "DL" "179" F 85.42532 MX -109.8324 MY -50.88469
POINTLOAD "DL" "93" F 225.2622 MX 368.0117 MY -34.38494
POINTLOAD "DL" "154" F 208.5637 MX 596.217 MY -37.03638
POINTLOAD "DL" "19" F 199.4039 MX 295.9517 MY -97.42405
POINTLOAD "DL" "95" F 257.262 MX -186.3416 MY -122.662
POINTLOAD "DL" "181" F 125.2491 MX -135.9261 MY -65.81047
POINTLOAD "DL" "155" F 296.8095 MX 674.7887 MY -39.25375
POINTLOAD "DL" "20" F 121.8524 MX -91.59234 MY 55.45474
POINTLOAD "DL" "96" F 229.8196 MX -16.80947 MY 67.67967
POINTLOAD "DL" "182" F 125.968 MX -128.4251 MY 52.18266
POINTLOAD "DL" "54" F 312.8057 MX 353.3558 MY 39.07711
POINTLOAD "DL" "156" F 294.7457 MX 645.539 MY 37.40769
POINTLOAD "DL" "1" F 59.86667 MX 208.0175 MY -82.0384
POINTLOAD "DL" "21" F 126.2811 MX -126.452 MY -52.14571
POINTLOAD "DL" "98" F 216.694 MX -164.7882 MY -60.14135
POINTLOAD "DL" "185" F 122.4022 MX -131.6758 MY -48.05339
POINTLOAD "DL" "55" F 316.9567 MX 317.9607 MY 28.85739
POINTLOAD "DL" "158" F 274.9717 MX -536.3686 MY -33.07768
POINTLOAD "DL" "2" F 85.40229 MX 314.6935 MY -130.2843
POINTLOAD "DL" "24" F 84.54403 MX -125.3267 MY 56.46234
POINTLOAD "DL" "101" F 113.7275 MX -11.87152 MY 69.30717
POINTLOAD "DL" "186" F 86.23881 MX -110.0695 MY 56.05516
POINTLOAD "DL" "56" F 232.4795 MX 306.3167 MY 44.45827
POINTLOAD "DL" "169" F 211.5435 MX -598.2472 MY 46.56076
POINTLOAD "DL" "2" F 59.79354 MX 185.2506 MY 97.94873
POINTLOAD "DL" "22" F 229.2725 MX -1.877588 MY 109.8184
POINTLOAD "DL" "99" F 258.3852 MX -177.9369 MY 128.7918
POINTLOAD "DL" "184" F 124.6873 MX -136.3572 MY 72.23065
POINTLOAD "DL" "159" F 297.2739 MX -675.7585 MY 49.78995
POINTLOAD "DL" "3" F 85.54175 MX 301.7551 MY 121.79653
POINTLOAD "DL" "18" F 191.2262 MX -49.94240 MY -439.508
POINTLOAD "DL" "23" F 199.345 MX -114.1532 MY 456.5964
POINTLOAD "DL" "180" F 202.9562 MX -135.2313 MY -425.7334
POINTLOAD "DL" "185" F 199.2174 MX -136.961 MY 455.912
POINTLOAD "DL" "94" F 254.5295 MX -66.63067 MY -468.0619
POINTLOAD "DL" "100" F 253.2946 MX -68.51678 MY 479.1421
POINTLOAD "DL" "122" F 79.56295 MX 4.764566 MY -2.851328E-14
POINTLOAD "DL" "126" F 68.08097 MX -63.94665 MY -10.94544
LOAD "SD" TYPE DEAD SELFWEIGHT 0 LTRFACTOR 1
POINTLOAD "SD" "17" F 27.21422 MX -27.60442 MY -28.99828
POINTLOAD "SD" "93" F 83.46687 MX 42.71397 MY -33.07796
POINTLOAD "SD" "179" F 41.7729 MX -117.7752 MY 27.88054
POINTLOAD "SD" "93" F 151.8376 MX -24.9832 MY -16.75788
POINTLOAD "SD" "154" F 138.8665 MX -405.2233 MY -58.91459
POINTLOAD "SD" "19" F 416.5283 MX 1492.971 MY -314.3582
POINTLOAD "SD" "95" F 556.3164 MX -664.5316 MY -447.6707
POINTLOAD "SD" "181" F 167.1443 MX -211.1672 MY -215.2974
POINTLOAD "SD" "155" F 500.173 MX -805.3462 MY -141.0014
POINTLOAD "SD" "20" F 164.0107 MX -76.26488 MY 160.5842
POINTLOAD "SD" "96" F 431.7352 MX 16.35563 MY 253.1758
POINTLOAD "SD" "182" F 160.4084 MX -161.1628 MY 153.9084
POINTLOAD "SD" "54" F 487.0129 MX 54.95689 MY 108.6713
POINTLOAD "SD" "156" F 455.3561 MX -626.9041 MY -11.30082
POINTLOAD "SD" "1" F 60.59836 MX 419.1561 MY -250.0354
POINTLOAD "SD" "21" F 191.5977 MX -252.5431 MY -160.518
POINTLOAD "SD" "98" F 390.0257 MX -465.1234 MY -238.7923
POINTLOAD "SD" "185" F 149.4197 MX -173.3378 MY -148.9843
POINTLOAD "SD" "55" F 514.0239 MX -165.5516 MY -93.49401
POINTLOAD "SD" "158" F 393.4919 MX -253.788 MY -125.5739
POINTLOAD "SD" "2" F 167.457 MX 1079.244 MY -392.6484
POINTLOAD "SD" "24" F 43.22623 MX -195.8342 MY 37.57586
POINTLOAD "SD" "101" F 85.9185 MX 60.23486 MY 41.52757
POINTLOAD "SD" "186" F 42.5855 MX -120.3133 MY 34.73555
POINTLOAD "SD" "56" F 162.2028 MX -178.464 MY 35.522
POINTLOAD "SD" "169" F 146.0958 MX -414.7512 MY 51.20703
POINTLOAD "SD" "2" F 61.49727 MX 352.2558 MY 202.3525
POINTLOAD "SD" "22" F 510.4475 MX 228.6393 MY 345.5618
POINTLOAD "SD" "99" F 599.9222 MX -625.0993 MY 456.4757
POINTLOAD "SD" "184" F 165.5723 MX -213.7316 MY 224.4326
POINTLOAD "SD" "159" F 301.9332 MX -100.7166 MY 155.2138
POINTLOAD "SD" "3" F 160.6071 MX 125.455 MY 382.524
POINTLOAD "SD" "18" F 104.3672 MX -112.8763 MY -76.36989
POINTLOAD "SD" "23" F 124.2083 MX -273.5576 MY 116.3967
POINTLOAD "SD" "180" F 112.4619 MX -185.3859 MY -31.77309
POINTLOAD "SD" "185" F 104.7699 MX -194.0236 MY 43.70924
POINTLOAD "SD" "94" F 177.5861 MX -58.61956 MY -117.7822
POINTLOAD "SD" "100" F 176.2436 MX -67.53936 MY 135.6501
POINTLOAD "SD" "122" F 99.3417 MX -6.03511E-16 MY -9.723938E-14
POINTLOAD "SD" "126" F 95.4975 MY -99.40324 MY -86.94718
AREALOAD "SD" "F2" W 0.03
AREALOAD "SD" "F3" W 0.03
AREALOAD "SD" "F4" W 0.03
AREALOAD "SD" "F1" W 0.03
AREALOAD "SD" "F5" W 0.03
AREALOAD "SD" "F6" W 0.03
AREALOAD "SD" "F7" W 0.03
AREALOAD "SD" "F8" W 0.03
AREALOAD "SD" "F9" W 0.03
AREALOAD "SD" "F10" W 0.03
AREALOAD "SD" "F11" W 0.03
LOAD "LL" TYPE LIVE SELFWEIGHT 0 LTRFACTOR 1
POINTLOAD "LL" "17" F 91.01546 MX -9.541064 MY -175.3562
POINTLOAD "LL" "93" F 214.6918 MX 266.7782 MY -169.8884
POINTLOAD "LL" "179" F 127.5085 MX -436.0979 MY -139.3134
POINTLOAD "LL" "93" F 460.2675 MX 125.7827 MY -152.801
POINTLOAD "LL" "154" F 432.422 MX -1702.699 MY -215.981
POINTLOAD "LL" "19" F 1259.754 MX 785.811 MY -1779.209
POINTLOAD "LL" "95" F 1742.981 MX -3143.511 MY 2042.257
POINTLOAD "LL" "181" F 508.1707 MX -865.8302 MY -1204.941
POINTLOAD "LL" "155" F 1498.236 MX -3546.535 MY -1031.019
POINTLOAD "LL" "20" F 493.4304 MX 53.54444 MY 924.3942
POINTLOAD "LL" "96" F 1303.567 MX 322.0958 MY 128.0303
POINTLOAD "LL" "182" F 668.2489 MX -595.8999 MY 920.9647
POINTLOAD "LL" "54" F 1419.47 MX 979.0628 MY 780.8225
POINTLOAD "LL" "156" F 1298.938 MX -2649.436 MY 136.5613
POINTLOAD "LL" "1" F 87.51258 MX 682.0487 MY -343.6755
POINTLOAD "LL" "21" F 534.9543 MX -190.8785 MY 262.0683
POINTLOAD "LL" "98" F 1107.844 MX -1878.558 MY -1171.316
POINTLOAD "LL" "183" F 413.6026 MX -638.4953 MY -885.9866
POINTLOAD "LL" "55" F 1449.991 MX 734.1791 MY -797.5494
POINTLOAD "LL" "158" F 1000.96 MX -882.5012 MY -903.2663
POINTLOAD "LL" "2" F 248.1746 MX 1689.852 MY -500.1066
POINTLOAD "LL" "24" F 122.5148 MX -275.854 MY 157.8505
POINTLOAD "LL" "101" F 279.9148 MX 437.6571 MY 181.678
POINTLOAD "LL" "186" F 125.6104 MX -371.9069 MY 185.6694
POINTLOAD "LL" "56" F 452.347 MX -630.179 MY 141.2962
POINTLOAD "LL" "160" F 474.6735 MX -1588.676 MY 282.3289
POINTLOAD "LL" "4" F 90.1883 MX 512.4977 MY 453.7325
POINTLOAD "LL" "22" F 1462.471 MX 1838.018 MY 1786.012
POINTLOAD "LL" "99" F 1747.776 MX -2960.859 MY 2053.021
POINTLOAD "LL" "184" F 495.576 MX -824.2137 MY 1258.886
POINTLOAD "LL" "159" F 1599.743 MX -3458.25 MY 1104.574
POINTLOAD "LL" "3" F 171.325 MX 2401.794 MY 606.7658
POINTLOAD "LL" "18" F 308.5122 MX -257.3009 MY 269.5431
POINTLOAD "LL" "23" F 361.383 MX -419.0752 MY 285.723
POINTLOAD "LL" "180" F 336.5962 MX -645.4665 MY -76.95062
POINTLOAD "LL" "185" F 297.3739 MX -550.0733 MY 163.5529
POINTLOAD "LL" "94" F 531.3057 MX 9.577492 MY -393.4617
POINTLOAD "LL" "100" F 527.5479 MX 109.1237 MY 418.9449

POINTLOAD "L" "122" F 473.6266 MX -1.598775E-15 MY -8.48727E-14
POINTLOAD "L" "126" F 439.6421 MX -281.3011 MY -434.8158
AREALOAD "L" "T2" W 0.1
AREALOAD "L" "T3" W 0.1
AREALOAD "L" "T4" W 0.1
AREALOAD "L" "T1" W 0.1
AREALOAD "L" "T5" W 0.1
AREALOAD "L" "T6" W 0.1
AREALOAD "L" "T7" W 0.1
AREALOAD "L" "T8" W 0.1
AREALOAD "L" "T9" W 0.1
AREALOAD "L" "T10" W 0.1
AREALOAD "L" "T11" W 0.1
LOAD EXP TYPE QUAKE SELFWEIGHT 0 LITDFACTOR 1
POINTLOAD "EXP" "17" F -1021.129 MX -166.4628 MY 5020.607
POINTLOAD "EXP" "93" F -1470.085 MX -302.1021 MY 3099.164
POINTLOAD "EXP" "139" F -974.7164 MX -338.4552 MY 5231.61
POINTLOAD "EXP" "53" F -1403.782 MX -727.7451 MY 9750.217
POINTLOAD "EXP" "154" F -1629.464 MX -192.4073 MY 10019.31
POINTLOAD "EXP" "19" F -161.3034 MX -169.3456 MY 6242.482
POINTLOAD "EXP" "95" F 137.5514 MX -185.7039 MY 6228.229
POINTLOAD "EXP" "181" F 124.4921 MX -163.3512 MY 6113.553
POINTLOAD "EXP" "155" F 81.92809 MX -339.5142 MY 10632
POINTLOAD "EXP" "20" F -27.95164 MX -141.7834 MY 5502.411
POINTLOAD "EXP" "96" F -27.30382 MX -119.2768 MY 5795.416
POINTLOAD "EXP" "139" F -1.401545 MX -62.1457 MY 5728.407
POINTLOAD "EXP" "54" F 6.745443 MX -138.0633 MY 10077.77
POINTLOAD "EXP" "156" F -49.14222 MX -68.58184 MY 10576.28
POINTLOAD "EXP" "1" F -15.24768 MX -124.7553 MY 3119.862
POINTLOAD "EXP" "21" F 17.38999 MX 35.36089 MY 549.375
POINTLOAD "EXP" "98" F 19.23034 MX 8.310396 MY 5752.764
POINTLOAD "EXP" "183" F 9.864344 MX 9.115269 MY 5721.609
POINTLOAD "EXP" "55" F 17.58191 MX 25.14656 MY 10076.6
POINTLOAD "EXP" "158" F 24.51741 MX 10.39897 MY 10336.03
POINTLOAD "EXP" "2" F 6.92319 MX 29.8795 MY 5440.718
POINTLOAD "EXP" "24" F 1002.37 MX 1250.983 MY 9040.195
POINTLOAD "EXP" "101" F 1470.037 MX 247.009 MY 5099.163
POINTLOAD "EXP" "186" F 982.0655 MX 267.3726 MY 5230.712
POINTLOAD "EXP" "56" F 1411.478 MX 879.8037 MY 9771.776
POINTLOAD "EXP" "160" F 1613.365 MX 93.80342 MY 10018.67
POINTLOAD "EXP" "4" F 43.80887 MX 1074.266 MY 3094.812
POINTLOAD "EXP" "22" F -161.7877 MX 98.58443 MY 6247.312
POINTLOAD "EXP" "99" F -137.4387 MX 137.5963 MY 6259.815
POINTLOAD "EXP" "1" F -113.7531 MX 110.7411 MY 61616.043
POINTLOAD "EXP" "159" F -93.34207 MX 238.8276 MY 10633.92
POINTLOAD "EXP" "3" F -7.492354 MX 109.1736 MY 3428.656
POINTLOAD "EXP" "18" F 2092.234 MX -333.9137 MY 10215.95
POINTLOAD "EXP" "23" F 2111.944 MX 488.6099 MY 10215.95
POINTLOAD "EXP" "180" F 2289.297 MX -416.4578 MY 10641.53
POINTLOAD "EXP" "185" F -2279.716 MX 319.0975 MY 10643.97
POINTLOAD "EXP" "94" F 1556.372 MX -414.5217 MY 10292.31
POINTLOAD "EXP" "100" F -1556.443 MX 314.8 MY 10292.31
POINTLOAD "EXP" "122" F 10.15777 MX -3.6406E-14 MY -1.150198E-12
POINTLOAD "EXP" "126" F 14.58304 MX 16.65233 MY 4490.053
LOAD EXP TYPE QUAKE SELFWEIGHT 0 LITDFACTOR 1
POINTLOAD "EXP" "17" F -577.0664 MX -3246.784 MY 110.4033
POINTLOAD "EXP" "93" F 0.415553 MX -3620.129 MY 26.40662
POINTLOAD "EXP" "139" F 576.0787 MX 3249.829 MY -84.59243
POINTLOAD "EXP" "53" F 1195.398 MX -6215.681 MY 188.813
POINTLOAD "EXP" "154" F -1201.114 MX -6149.509 MY -136.8487
POINTLOAD "EXP" "19" F -27.47451 MX -3491.971 MY 155.0652
POINTLOAD "EXP" "95" F -1.840013 MX -3796.495 MY 5310.292
POINTLOAD "EXP" "181" F 846.8803 MX -3441.327 MY 288.7406
POINTLOAD "EXP" "155" F -884.0267 MX -6471.515 MY -284.5604
POINTLOAD "EXP" "20" F -848.6566 MX -7904.02 MY 205.4813
POINTLOAD "EXP" "96" F 7.075475 MX -4141.266 MY 43.90862
POINTLOAD "EXP" "182" F 911.5623 MX -3605.731 MY -155.6836
POINTLOAD "EXP" "54" F 942.0586 MX -7922.686 MY 250.7668
POINTLOAD "EXP" "156" F 890.332 MX -6789.028 MY -281.0251
POINTLOAD "EXP" "1" F -17.11309 MX -7099.474 MY 56.74385
POINTLOAD "EXP" "21" F -874.9275 MX -4186.363 MY -15.49061
POINTLOAD "EXP" "98" F -7.799515 MX -4358.761 MY 1.037056
POINTLOAD "EXP" "183" F 940.5054 MX -3705.572 MY -158.1579
POINTLOAD "EXP" "55" F 988.4435 MX -8178.527 MY 218.7171
POINTLOAD "EXP" "158" F -92.2303 MX -7100.307 MY -181.5186
POINTLOAD "EXP" "2" F -115.4685 MX -7265.669 MY 60.37953
POINTLOAD "EXP" "24" F 579.5576 MX -8350.447 MY 221.5825
POINTLOAD "EXP" "101" F 15.95174 MX -4353.686 MY 26.68807
POINTLOAD "EXP" "186" F 634.4082 MX -3902.837 MY -204.5974
POINTLOAD "EXP" "56" F 1568.556 MX -8381.458 MY 265.4533
POINTLOAD "EXP" "160" F -1529.734 MX -7345.871 MY -210.9708
POINTLOAD "EXP" "4" F -127.1057 MX -7598.508 MY 62.01553
POINTLOAD "EXP" "22" F 37.33372 MX -7817.508 MY 272.5574
POINTLOAD "EXP" "99" F -63.559142 MX -4203.884 MY -31.83081
POINTLOAD "EXP" "1" F 963.1934 MX -3875.009 MY -29.87781
POINTLOAD "EXP" "159" F -991.6434 MX -7288.857 MY -105.0463
POINTLOAD "EXP" "3" F -88.97107 MX -6911.083 MY 66.0183
POINTLOAD "EXP" "18" F -661.1217 MX -6132.777 MY 370.3165
POINTLOAD "EXP" "23" F 902.995 MX -8096.928 MY 300.7908
POINTLOAD "EXP" "180" F 712.6964 MX -6135.865 MY -477.6864
POINTLOAD "EXP" "185" F 990.6123 MX -7131.422 MY -47.08708
POINTLOAD "EXP" "94" F 16.8333 MX -6347.155 MY 56.2686
POINTLOAD "EXP" "100" F 6.168866 MX -7389.808 MY 63.03353
POINTLOAD "EXP" "122" F 2.74305 MX -1.585646E-13 MY 5.100374E-15
POINTLOAD "EXP" "126" F -7.922683 MX -5008.708 MY -22.99662
LOAD EXP TYPE QUAKE SELFWEIGHT 0 LITDFACTOR 1
POINTLOAD "EXP" "17" F -983.5093 MX 288.0999 MY 5230.723
POINTLOAD "EXP" "93" F -1474.793 MX 302.1021 MY 5115.477
POINTLOAD "EXP" "139" F -1010.922 MX 135.3233 MY 5017.167
POINTLOAD "EXP" "53" F -1616.771 MX 122.2627 MY 10021.91
POINTLOAD "EXP" "154" F -3413.177 MX 648.6524 MY 9741.175
POINTLOAD "EXP" "19" F 169.617 MX 151.9513 MY 680.6941
POINTLOAD "EXP" "95" F 138.0767 MX 144.7927 MY 6247.436
POINTLOAD "EXP" "181" F 47.7004 MX 145.0855 MY 5879.849
POINTLOAD "EXP" "155" F 154.6204 MX 243.4903 MY 10338.95
POINTLOAD "EXP" "20" F -95.14606 MX 20.58589 MY 5720.881
POINTLOAD "EXP" "96" F -27.62636 MX 20.58589 MY 5013.456
POINTLOAD "EXP" "182" F -21.3759 MX 23.98056 MY 5497.65
POINTLOAD "EXP" "54" F -29.10274 MX 49.93929 MY 10356.33
POINTLOAD "EXP" "156" F -27.85623 MX 93.6766 MY 10281.64
POINTLOAD "EXP" "1" F 12.76476 MX 40.69503 MY 3188.801
POINTLOAD "EXP" "21" F 5.006243 MX 82.70761 MY 5717.636
POINTLOAD "EXP" "98" F 19.29784 MX 54.73993 MY 5771.936
POINTLOAD "EXP" "183" F 23.39729 MX 44.66892 MY 5491.038
POINTLOAD "EXP" "55" F 32.93528 MX -62.6181 MY 10355.17
POINTLOAD "EXP" "158" F 10.39195 MX -92.14477 MY 10457
POINTLOAD "EXP" "2" F 7.270813 MX -77.31093 MY 3517.704
POINTLOAD "EXP" "24" F 973.9002 MX 402.1422 MY 5244.962
POINTLOAD "EXP" "101" F 1474.763 MX -223.647 MY 5115.476
POINTLOAD "EXP" "186" F 1013.879 MX -154.9595 MY 8016.828
POINTLOAD "EXP" "56" F 1618.489 MX 0.6631552 MY 10400.95
POINTLOAD "EXP" "160" F 1406.648 MX -686.573 MY 9740.941
POINTLOAD "EXP" "4" F 31.32284 MX 294.7122 MY 3164.369
POINTLOAD "EXP" "22" F -163.8079 MX -453.9303 MY 6944.539
POINTLOAD "EXP" "99" F -137.813 MX -162.1808 MY 6248.979
POINTLOAD "EXP" "180" F -43.35742 MX -165.3814 MY 5880.934
POINTLOAD "EXP" "185" F -159.1831 MX -282.3274 MY 10340.08
POINTLOAD "EXP" "3" F -144.1431 MX -389.2997 MY 3565.656
POINTLOAD "EXP" "18" F -206.173 MX 273.4247 MY 10618.89
POINTLOAD "EXP" "23" F -2275.892 MX -249.8347 MY 10634.89
POINTLOAD "EXP" "180" F 2105.314 MX 291.1992 MY 10245.54
POINTLOAD "EXP" "185" F -2101.367 MX -328.5054 MY 10246.51
POINTLOAD "EXP" "94" F 1559.891 MX 323.301 MY 10252.57
POINTLOAD "EXP" "100" F -1559.891 MX -361.5223 MY 10252.57
POINTLOAD "EXP" "122" F 10.35916 MX 1.397604E-14 MY 2.601238E-13
POINTLOAD "EXP" "126" F 14.30123 MX -57.74832 MY 4441.382
LOAD EXP TYPE QUAKE SELFWEIGHT 0 LITDFACTOR 1
POINTLOAD "EXP" "17" F -652.0177 MX -4150.267 MY 308.388255
POINTLOAD "EXP" "93" F 9.795516 MX -4625.353 MY -4.083074
POINTLOAD "EXP" "139" F 648.2139 MX -4153.923 MY 342.6564
POINTLOAD "EXP" "53" F 1619.751 MX -7909.208 MY -355.4978
POINTLOAD "EXP" "154" F -1632.037 MX -7825.208 MY 417.3036
POINTLOAD "EXP" "19" F -44.14789 MX -4116.645 MY 547.285
POINTLOAD "EXP" "95" F -2.150525 MX -4477.266 MY -5.249806
POINTLOAD "EXP" "181" F 999.8775 MX -4055.846 MY 177.4814
POINTLOAD "EXP" "155" F -1028.857 MX -7633.074 MY 319.3028
POINTLOAD "EXP" "20" F -885.389 MX -8267.267 MY -229.79
POINTLOAD "EXP" "96" F 3.370786 MX -4338.546 MY 27.64885
POINTLOAD "EXP" "182" F 951.3586 MX -3777.322 MY 304.0687
POINTLOAD "EXP" "54" F 986.6025 MX -8297.256 MY -304.2142
POINTLOAD "EXP" "156" F 932.7415 MX -7111.306 MY 305.9775
POINTLOAD "EXP" "1" F 122.0278 MX -1429.109 MY -82.6045
POINTLOAD "EXP" "21" F 850.2366 MX -7951.127 MY -283.595
POINTLOAD "EXP" "98" F -7.934003 MX -4233.141 MY -37.16001
POINTLOAD "EXP" "183" F 913.5427 MX -3598.414 MY 301.2237
POINTLOAD "EXP" "55" F 937.854 MX -7943.899 MY -336.2009

POINTLOAD "EYNN" "158" F -874.1872 MX -6895.981 MY 394.3228
POINTLOAD "EYNN" "2" F -112.1763 MX -7052.109 MY -93.09516
POINTLOAD "EYNN" "24" F -522.8345 MX -6689.244 MY -186.5887
POINTLOAD "EYNN" "101" F 6.536173 MX -3415.967 MY -5.812263
POINTLOAD "EYNN" "186" F 571.0192 MX -3060.679 MY 221.5931
POINTLOAD "EYNN" "56" F 1156.114 MX -6629.888 MY -270.8479
POINTLOAD "EYNN" "160" F -1117.878 MX -5791.075 MY 342.723
POINTLOAD "EYNN" "4" F -102.229 MX -6043.37 MY -76.65781
POINTLOAD "EYNN" "22" F 41.34869 MX 4716.696 MY -220.0102
POINTLOAD "EYNN" "99" F 0.1948875 MX -3606.618 MY -6.360855
POINTLOAD "EYNN" "184" F 822.9393 MX -3323.472 MY 438.5449
POINTLOAD "EYNN" "159" F 460.464 MX -6250.525 MY 4803.937
POINTLOAD "EYNN" "3" F -74.78173 MX -5918.021 MY -87.39393
POINTLOAD "EYNN" "18" F -1013.632 MX -7542.153 MY -428.5048
POINTLOAD "EYNN" "23" F -570.2739 MX -6625.509 MY -498.2496
POINTLOAD "EYNN" "180" F 1079.258 MX -7545.598 MY 311.2177
POINTLOAD "EYNN" "185" F 635.2708 MX 5841.16 MY 744.8091
POINTLOAD "EYNN" "94" F 11.63555 MX -7817.169 MY -10.00016
POINTLOAD "EYNN" "100" F 11.26277 MX -6042.724 MY -10.30166
POINTLOAD "EYNN" "122" F 3.435553 MX -3981058E-14 MY -119978E-16
POINTLOAD "EYNN" "126" F -7.361221 MX -4860.474 MY 74.06266
LOAD WX TYPE WIND SELFWEIGHT 0 LITDFACTOR 1
POINTLOAD "WX" "17" F -1436.636 MX 3096.919 MY 9816.177
POINTLOAD "WX" "93" F -2578.161 MX 3232.517 MY 8790.623
POINTLOAD "WX" "139" F -1904.014 MX 2870.316 MY 7320.403
POINTLOAD "WX" "53" F -4000.091 MX 5243.624 MY 1841.614
POINTLOAD "WX" "154" F -1627.212 MX 6112.803 MY 15107.58
POINTLOAD "WX" "19" F -1386.121 MX 2688.415 MY 11734.82
POINTLOAD "WX" "95" F -1893.429 MX 2387.024 MY 10963.19
POINTLOAD "WX" "181" F -954.2581 MX 2238.522 MY 8311.754
POINTLOAD "WX" "155" F -1443.976 MX 4450.944 MY 15398.11
POINTLOAD "WX" "20" F -579.5711 MX 1841.64 MY 10839.84
POINTLOAD "WX" "96" F -1750.687 MX 960.0608 MY 9878.811
POINTLOAD "WX" "182" F -793.4652 MX 905.873 MY 834.017
POINTLOAD "WX" "54" F -2188.202 MX 2463.569 MY 19581.59
POINTLOAD "WX" "156" F -1894.137 MX 1971.393 MY 16346.71
POINTLOAD "WX" "1" F -426.4696 MX -1942.817 MY 4201.111
POINTLOAD "WX" "21" F -897.3067 MX 1418.397 MY 10294.7
POINTLOAD "WX" "98" F 1657.46 MX 470.7219 MY 9981.352
POINTLOAD "WX" "183" F -569.3232 MX 96.20753 MY 7748.258
POINTLOAD "WX" "55" F -2120.453 MX 2325.742 MY 18448
POINTLOAD "WX" "158" F -1986.351 MX 68.51121 MY 15089.57
POINTLOAD "WX" "2" F -1182.661 MX 8071.661 MY 5444.375
POINTLOAD "WX" "24" F 1189.322 MX -2266.335 MY 9693.176
POINTLOAD "WX" "101" F 1996.62 MX -2320.39 MY 8747.337
POINTLOAD "WX" "186" F 1549.815 MX -1983.912 MY 7346.412
POINTLOAD "WX" "56" F 2658.792 MX -2887.634 MY 18435.55
POINTLOAD "WX" "160" F -628.6188 MX -4257.841 MY 15204.61
POINTLOAD "WX" "4" F -458.3557 MX -5966.821 MY 347.2422
POINTLOAD "WX" "22" F -2401.198 MX -2089.483 MY 12080.87
POINTLOAD "WX" "99" F -2288.375 MX -1528.458 MY 10120.27
POINTLOAD "WX" "184" F -390.0266 MX -1254.09 MY 8838.344
POINTLOAD "WX" "159" F -2534.793 MX -2060.945 MY 16704.98
POINTLOAD "WX" "3" F -1307.463 MX -11547.47 MY 21.01337
POINTLOAD "WX" "18" F 3864.331 MX 5008.474 MY 20281.69
POINTLOAD "WX" "23" F -4776.241 MX -2447.888 MY 19436.24
POINTLOAD "WX" "98" F 628.6188 MX -4961.54 MY 15204.61
POINTLOAD "WX" "185" F -2860.614 MX -3151.904 MY 15130.87
POINTLOAD "WX" "94" F 1712.858 MX 5050.637 MY 18195.25
POINTLOAD "WX" "100" F -3133.21 MX -3309.154 MY 17285.12
POINTLOAD "WX" "122" F -33.61375 MX 1360125E-13 MY -1.131975E-12
POINTLOAD "WX" "126" F 15.26534 MX -27.75303 MY 7015.102
LOAD WY TYPE WIND SELFWEIGHT 0 LITDFACTOR 1
POINTLOAD "WY" "17" F -1574.577 MX -11532.94 MY -1185.396
POINTLOAD "WY" "93" F -1528.022 MX -12776.73 MY -42.56497
POINTLOAD "WY" "139" F 1650.065 MX -11558.5 MY 1301.326
POINTLOAD "WY" "53" F 4336.936 MX -22249.8 MY -1446.791
POINTLOAD "WY" "154" F -3981.501 MX -22107.75 MY 1678.793
POINTLOAD "WY" "19" F 462.5037 MX -11583.37 MY -1196.98
POINTLOAD "WY" "95" F 718.193 MX -12295.37 MY -189.0757
POINTLOAD "WY" "181" F 2694.104 MX -1122.98 MY 985.6305
POINTLOAD "WY" "155" F -1866.157 MX -21217.11 MY 1634.655
POINTLOAD "WY" "20" F -1871.462 MX -20923.13 MY -1106.559
POINTLOAD "WY" "96" F 997.8251 MX -11410.09 MY 7073.104
POINTLOAD "WY" "182" F -2480.159 MX -9972.018 MY 1125.208
POINTLOAD "WY" "54" F 3077.095 MX -21957.67 MY -1536.418
POINTLOAD "WY" "156" F -1567.822 MX -19004.54 MY 1292.494
POINTLOAD "WY" "1" F -157.2974 MX -17659.35 MY 959.8178
POINTLOAD "WY" "21" F -1665.711 MX -19879.36 MY -1047.729
POINTLOAD "WY" "98" F 550.696 MX -10970.74 MY -150.1713
POINTLOAD "WY" "183" F 2342.359 MX -9245.946 MY 1316.756
POINTLOAD "WY" "55" F 2071.62 MX -20943.14 MY -1226.766
POINTLOAD "WY" "158" F -1379.493 MX -17795.32 MY 1807.076
POINTLOAD "WY" "2" F 118.8431 MX -14745.57 MY -1339.588
POINTLOAD "WY" "24" F -1115.972 MX -15207.48 MY -859.7057
POINTLOAD "WY" "101" F 107.5415 MX -7857.506 MY -31.56068
POINTLOAD "WY" "186" F 1351.946 MX -7082.424 MY 975.4122
POINTLOAD "WY" "56" F 2603.615 MX -15706.58 MY -1233.588
POINTLOAD "WY" "160" F -208.6037 MX -1364.64 MY 1434.153
POINTLOAD "WY" "4" F -82.91275 MX -12612.48 MY 364.5936
POINTLOAD "WY" "22" F 870.3524 MX -15822.38 MY -1101.51
POINTLOAD "WY" "99" F 730.628 MX -8773.502 MY 10410.734
POINTLOAD "WY" "184" F 2032.381 MX 8107.489 MY 1461.919
POINTLOAD "WY" "159" F 1223.022 MX 15461.8 MY 1616.651
POINTLOAD "WY" "3" F 244.7088 MX -10925.84 MY 528.1805
POINTLOAD "WY" "18" F -2461.797 MX -21153.15 MY -2012.955
POINTLOAD "WY" "23" F -836.215 MX -16099.6 MY -1861.985
POINTLOAD "WY" "98" F 2022.893 MX 2124.64 MY 1599.164
POINTLOAD "WY" "185" F 1305.422 MX -14021.38 MY 2701.744
POINTLOAD "WY" "94" F 262.778 MX -21892.24 MY -232.7841
POINTLOAD "WY" "100" F 271.1632 MX -14491.3 MY 82.15773
POINTLOAD "WY" "122" F 27.29396 MX -4167022E-13 MY 1.466972E-14
POINTLOAD "WY" "126" F 14.82026 MX -11836.34 MY 273.8727
LOAD WAIF TYPE OTHER SELFWEIGHT 0 LITDFACTOR 1
\$LOADING COMBINATIONS
COMBO "BASE01"
COMBOFACTOR "BASE01" "DL" 1
COMBOFACTOR "BASE01" "SDL" 1
COMBOFACTOR "BASE01" "WAIF" 1
COMBO "BASE02"
COMBOFACTOR "BASE02" "DL" 1
COMBOFACTOR "BASE02" "SDL" 1
COMBOFACTOR "BASE02" "WAN" 1
COMBO "BASE03"
COMBOFACTOR "BASE03" "DL" 1
COMBOFACTOR "BASE03" "SDL" 1
COMBOFACTOR "BASE03" "L" 1
COMBOFACTOR "BASE03" "WAIF" 1
COMBO "BASE04"
COMBOFACTOR "BASE04" "DL" 1
COMBOFACTOR "BASE04" "SDL" 1
COMBOFACTOR "BASE04" "L" 1
COMBOFACTOR "BASE04" "WAN" 1
COMBO "BASE05"
COMBOFACTOR "BASE05" "DL" 1
COMBOFACTOR "BASE05" "SDL" 1
COMBOFACTOR "BASE05" "L" 1
COMBOFACTOR "BASE05" "EXP" 1
COMBOFACTOR "BASE05" "WAN" 1
COMBO "BASE06"
COMBOFACTOR "BASE06" "DL" 1
COMBOFACTOR "BASE06" "SDL" 1
COMBOFACTOR "BASE06" "L" 1
COMBOFACTOR "BASE06" "EXP" 1
COMBOFACTOR "BASE06" "WAN" 1
COMBO "BASE07"
COMBOFACTOR "BASE07" "DL" 1
COMBOFACTOR "BASE07" "SDL" 1
COMBOFACTOR "BASE07" "L" 1
COMBOFACTOR "BASE07" "EXP" 1
COMBOFACTOR "BASE07" "WAN" 1
COMBO "BASE08"
COMBOFACTOR "BASE08" "DL" 1
COMBOFACTOR "BASE08" "SDL" 1
COMBOFACTOR "BASE08" "L" 1
COMBOFACTOR "BASE08" "EXP" 1
COMBOFACTOR "BASE08" "WAN" 1
COMBO "BASE09"
COMBOFACTOR "BASE09" "DL" 1
COMBOFACTOR "BASE09" "SDL" 1
COMBOFACTOR "BASE09" "L" 1
COMBOFACTOR "BASE09" "EXP" 1
COMBOFACTOR "BASE09" "WAN" 1
COMBO "BASE10"
COMBOFACTOR "BASE10" "DL" 1

COMBOFACTOR 'BASE10' 'SDL' 1
COMBOFACTOR 'BASE10' 'LL' 1
COMBOFACTOR 'BASE10' 'EXN' 1
COMBOFACTOR 'BASE10' 'WAN' 1
COMBO 'BASE11'
COMBOFACTOR 'BASE11' 'DL' 1
COMBOFACTOR 'BASE11' 'SDL' 1
COMBOFACTOR 'BASE11' 'LL' 1
COMBOFACTOR 'BASE11' 'EYN' 1
COMBOFACTOR 'BASE11' 'WAI' 1
COMBO 'BASE12'
COMBOFACTOR 'BASE12' 'DL' 1
COMBOFACTOR 'BASE12' 'SDL' 1
COMBOFACTOR 'BASE12' 'LL' 1
COMBOFACTOR 'BASE12' 'EYN' 1
COMBOFACTOR 'BASE12' 'WAN' 1
COMBO 'BASE13'
COMBOFACTOR 'BASE13' 'DL' 1
COMBOFACTOR 'BASE13' 'SDL' 1
COMBOFACTOR 'BASE13' 'LL' 1
COMBOFACTOR 'BASE13' 'EXP' 1
COMBOFACTOR 'BASE13' 'WAI' 1
COMBO 'BASE14'
COMBOFACTOR 'BASE14' 'DL' 1
COMBOFACTOR 'BASE14' 'SDL' 1
COMBOFACTOR 'BASE14' 'LL' 1
COMBOFACTOR 'BASE14' 'EXP' -1
COMBOFACTOR 'BASE14' 'WAN' 1
COMBO 'BASE15'
COMBOFACTOR 'BASE15' 'DL' 1
COMBOFACTOR 'BASE15' 'SDL' 1
COMBOFACTOR 'BASE15' 'LL' 1
COMBOFACTOR 'BASE15' 'EYP' -1
COMBOFACTOR 'BASE15' 'WAI' 1
COMBO 'BASE16'
COMBOFACTOR 'BASE16' 'DL' 1
COMBOFACTOR 'BASE16' 'SDL' 1
COMBOFACTOR 'BASE16' 'LL' 1
COMBOFACTOR 'BASE16' 'EYP' 1
COMBOFACTOR 'BASE16' 'WAN' 1
COMBO 'BASE17'
COMBOFACTOR 'BASE17' 'DL' 1
COMBOFACTOR 'BASE17' 'SDL' 1
COMBOFACTOR 'BASE17' 'LL' 1
COMBOFACTOR 'BASE17' 'EXN' -1
COMBOFACTOR 'BASE17' 'WAI' 1
COMBO 'BASE18'
COMBOFACTOR 'BASE18' 'DL' 1
COMBOFACTOR 'BASE18' 'SDL' 1
COMBOFACTOR 'BASE18' 'LL' 1
COMBOFACTOR 'BASE18' 'EXN' -1
COMBOFACTOR 'BASE18' 'WAN' 1
COMBO 'BASE19'
COMBOFACTOR 'BASE19' 'DL' 1
COMBOFACTOR 'BASE19' 'SDL' 1
COMBOFACTOR 'BASE19' 'LL' 1
COMBOFACTOR 'BASE19' 'EYN' -1
COMBOFACTOR 'BASE19' 'WAI' 1
COMBO 'BASE20'
COMBOFACTOR 'BASE20' 'DL' 1
COMBOFACTOR 'BASE20' 'SDL' 1
COMBOFACTOR 'BASE20' 'LL' 1
COMBOFACTOR 'BASE20' 'EYN' -1
COMBOFACTOR 'BASE20' 'WAN' 1
COMBO 'BASE21' TYPE DESGN
COMBOFACTOR 'BASE21' 'DL' 1.4
COMBOFACTOR 'BASE21' 'SDL' 1.4
COMBOFACTOR 'BASE21' 'WAI' 1.4
COMBO 'BASE22' TYPE DESGN
COMBOFACTOR 'BASE22' 'DL' 1.4
COMBOFACTOR 'BASE22' 'SDL' 1.4
COMBOFACTOR 'BASE22' 'WAN' 1.4
COMBO 'BASE23' TYPE DESGN
COMBOFACTOR 'BASE23' 'DL' 1.2
COMBOFACTOR 'BASE23' 'SDL' 1.2
COMBOFACTOR 'BASE23' 'LL' 1.6
COMBOFACTOR 'BASE23' 'WAI' 1.2
COMBO 'BASE24' TYPE DESGN
COMBOFACTOR 'BASE24' 'DL' 1.2
COMBOFACTOR 'BASE24' 'SDL' 1.2
COMBOFACTOR 'BASE24' 'LL' 1.6
COMBOFACTOR 'BASE24' 'WAN' 1.2
COMBO 'BASE25' TYPE DESGN
COMBOFACTOR 'BASE25' 'DL' 1.2
COMBOFACTOR 'BASE25' 'SDL' 1.2
COMBOFACTOR 'BASE25' 'LL' 1
COMBOFACTOR 'BASE25' 'EXP' 1.4
COMBO 'BASE26' TYPE DESGN
COMBOFACTOR 'BASE26' 'DL' 1.2
COMBOFACTOR 'BASE26' 'SDL' 1.2
COMBOFACTOR 'BASE26' 'LL' 1
COMBOFACTOR 'BASE26' 'EYP' 1.4
COMBO 'BASE27' TYPE DESGN
COMBOFACTOR 'BASE27' 'DL' 1.2
COMBOFACTOR 'BASE27' 'SDL' 1.2
COMBOFACTOR 'BASE27' 'LL' 1
COMBOFACTOR 'BASE27' 'EXN' 1.4
COMBO 'BASE28' TYPE DESGN
COMBOFACTOR 'BASE28' 'DL' 1.2
COMBOFACTOR 'BASE28' 'SDL' 1.2
COMBOFACTOR 'BASE28' 'LL' 1
COMBOFACTOR 'BASE28' 'EYN' 1.4
COMBO 'BASE29' TYPE DESGN
COMBOFACTOR 'BASE29' 'DL' 1.2
COMBOFACTOR 'BASE29' 'SDL' 1.2
COMBOFACTOR 'BASE29' 'LL' 1
COMBOFACTOR 'BASE29' 'EXP' -1.4
COMBO 'BASE30' TYPE DESGN
COMBOFACTOR 'BASE30' 'DL' 1.2
COMBOFACTOR 'BASE30' 'SDL' 1.2
COMBOFACTOR 'BASE30' 'LL' 1
COMBOFACTOR 'BASE30' 'EYP' -1.4
COMBO 'BASE31' TYPE DESGN
COMBOFACTOR 'BASE31' 'DL' 1.2
COMBOFACTOR 'BASE31' 'SDL' 1.2
COMBOFACTOR 'BASE31' 'LL' 1
COMBOFACTOR 'BASE31' 'EXN' -1.4
COMBO 'BASE32' TYPE DESGN
COMBOFACTOR 'BASE32' 'DL' 1.2
COMBOFACTOR 'BASE32' 'SDL' 1.2
COMBOFACTOR 'BASE32' 'LL' 1
COMBOFACTOR 'BASE32' 'EYN' -1.4
COMBO 'BASE33' TYPE DESGN
COMBOFACTOR 'BASE33' 'DL' 0.9
COMBOFACTOR 'BASE33' 'SDL' 0.9
COMBOFACTOR 'BASE33' 'EXP' 1.4
COMBO 'BASE34' TYPE DESGN
COMBOFACTOR 'BASE34' 'DL' 0.9
COMBOFACTOR 'BASE34' 'SDL' 0.9
COMBOFACTOR 'BASE34' 'EYP' 1.4
COMBO 'BASE35' TYPE DESGN
COMBOFACTOR 'BASE35' 'DL' 0.9
COMBOFACTOR 'BASE35' 'SDL' 0.9
COMBOFACTOR 'BASE35' 'EXN' 1.4
COMBO 'BASE36' TYPE DESGN
COMBOFACTOR 'BASE36' 'DL' 0.9
COMBOFACTOR 'BASE36' 'SDL' 0.9
COMBOFACTOR 'BASE36' 'EYN' 1.4
COMBO 'BASE37' TYPE DESGN
COMBOFACTOR 'BASE37' 'DL' 0.9
COMBOFACTOR 'BASE37' 'SDL' 0.9
COMBOFACTOR 'BASE37' 'EXP' -1.4
COMBO 'BASE38' TYPE DESGN
COMBOFACTOR 'BASE38' 'DL' 0.9
COMBOFACTOR 'BASE38' 'SDL' 0.9
COMBOFACTOR 'BASE38' 'EYP' -1.4
COMBO 'BASE39' TYPE DESGN
COMBOFACTOR 'BASE39' 'DL' 0.9
COMBOFACTOR 'BASE39' 'SDL' 0.9
COMBOFACTOR 'BASE39' 'EXN' -1.4
COMBO 'BASE40' TYPE DESGN
COMBOFACTOR 'BASE40' 'DL' 0.9
COMBOFACTOR 'BASE40' 'EYN' -1.4

5 STRIP DEFINITIONS
XSTRIP '12' 0 202.5 217.5 202.5 217.5 500 0 500

XSTRIP '13' 217.5 202.5 548.5 202.5 548.5 500 217.5 500
XSTRIP '14' 548.5 202.5 756.5 202.5 756.5 500 548.5 500
XSTRIP '15' 548.5 202.5 548.5 0 1305 0 1305 202.5
XSTRIP '16' 756.5 202.5 1087.5 202.5 1087.5 500 756.5 500
XSTRIP '17' 1087.5 202.5 1305 202.5 1305 500 1087.5 500
XSTRIP '18' 0 500 217.5 500 217.5 857.5 0 857.5
XSTRIP '19' 217.5 500 548.5 500 548.5 857.5 217.5 857.5
XSTRIP '20' 548.5 500 756.5 500 756.5 857.5 548.5 857.5
XSTRIP '21' 756.5 500 1087.5 500 1087.5 857.5 756.5 857.5
XSTRIP '22' 1087.5 500 1305 500 1305 857.5 1087.5 857.5
YSTRIP '23' 0 202.5 217.5 202.5 217.5 500 0 500
YSTRIP '24' 217.5 202.5 548.5 202.5 548.5 500 217.5 500
YSTRIP '25' 548.5 202.5 756.5 202.5 756.5 500 548.5 500
YSTRIP '26' 548.5 202.5 548.5 0 1305 0 1305 202.5
YSTRIP '27' 756.5 202.5 1087.5 202.5 1087.5 500 756.5 500
YSTRIP '28' 1087.5 202.5 1305 202.5 1305 500 1087.5 500
YSTRIP '29' 0 500 217.5 500 217.5 857.5 0 857.5
YSTRIP '30' 217.5 500 548.5 500 548.5 857.5 217.5 857.5
YSTRIP '31' 548.5 500 756.5 500 756.5 857.5 548.5 857.5
YSTRIP '32' 756.5 500 1087.5 500 1087.5 857.5 756.5 857.5
YSTRIP '33' 1087.5 500 1305 500 1305 857.5 1087.5 857.5
\$ GROUPS
END
\$ END OF MODEL FILE

26 756.500 202.500 54.707 54.707

SAFE v8.1.0 File: 2208A-SC2-4-220813-001 Kgf-cm Units PAGE 1 August 16,2022 13:56

Lo-Lat Structure Studio

X - STRIP REINFORCING (for whole strip in Sq-cm)

X-STRIP STRIP STATION TOP-REBAR TOP-REBAR BOT-REBAR BOT-REBAR ID WIDTH X-ORDINATE LEFT OF X RIGHT OF X LEFT OF X RIGHT OF X

18 357.500 0.000 25.853 25.853
18 357.500 60.000 25.853 25.853 25.853 25.853
18 357.500 120.000 25.853 25.853 25.853 25.853
18 357.500 217.500 25.853 25.853

22 357.500 1087.500 25.853 25.853
22 357.500 1185.000 25.853 25.853 25.853 25.853
22 357.500 1245.000 25.853 25.853 25.853 25.853
22 357.500 1305.000 25.853 25.853

21 357.500 756.500 25.853 25.853
21 357.500 839.250 25.853 25.853 0.000 0.000
21 357.500 922.000 25.853 25.853 0.000 0.000
21 357.500 1004.750 25.853 25.853 25.853 25.853
21 357.500 1087.500 25.853 25.853

20 357.500 548.500 25.853 25.853
20 357.500 600.500 25.853 25.853 0.000 0.000
20 357.500 652.500 25.853 25.853 0.000 0.000
20 357.500 704.500 25.853 25.853 0.000 0.000
20 357.500 756.500 25.853 25.853

19 357.500 217.500 25.853 25.853
19 357.500 300.250 25.853 25.853 25.853 25.853
19 357.500 383.000 25.853 25.853 0.000 0.000
19 357.500 465.750 25.853 25.853 0.000 0.000
19 357.500 548.500 25.853 25.853

17 297.500 1087.500 21.514 21.514
17 297.500 1185.000 21.514 21.514 21.514 21.514
17 297.500 1245.000 21.514 21.514 21.514 21.514
17 297.500 1305.000 21.514 21.514

16 297.500 756.500 21.514 21.514
16 297.500 839.250 21.514 21.514
16 297.500 922.000 21.514 21.514
16 297.500 1004.750 21.514 21.514 0.000 21.514
16 297.500 1087.500 21.514 21.514

14 297.500 548.500 21.514 21.514
14 297.500 600.500 21.514 21.514 0.000 0.000
14 297.500 652.500 21.514 21.514 0.000 0.000
14 297.500 704.500 21.514 21.514 0.000 0.000
14 297.500 756.500 21.514 21.514

13 297.500 217.500 21.514 21.514
13 297.500 300.250 21.514 21.514 21.514 21.514
13 297.500 383.000 21.514 21.514 0.000 0.000
13 297.500 465.750 21.514 21.514 0.000 0.000
13 297.500 548.500 21.514 21.514

12 297.500 0.000 21.514 21.514
12 297.500 60.000 21.514 21.514 21.514 21.514
12 297.500 120.000 21.514 21.514 21.514 21.514
12 297.500 217.500 21.514 21.514

15 202.500 548.500 0.000 14.644
15 202.500 600.500 14.644 14.644 0.000 0.000
15 202.500 652.500 14.644 14.644
15 202.500 704.500 14.644 14.644
15 202.500 756.500 14.644 14.644 0.000

15 202.500 839.250 14.644 14.644
15 202.500 922.000 14.644 14.644
15 202.500 1004.750 14.644 14.644 0.000 0.000
15 202.500 1087.500 14.644 14.644 14.644 14.644
15 202.500 1185.000 14.644 14.644 14.644 14.644
15 202.500 1245.000 14.644 14.644 14.644 14.644
15 202.500 1305.000 14.644 14.644

15 202.500 1305.000 14.644 14.644

SAFE v8.1.0 File: 2208A-SC2-4-220813-001 Kgf-cm Units PAGE 2 August 16,2022 13:56

Lo-Lat Structure Studio

Y - STRIP REINFORCING (for whole strip in Sq-cm)

Y-STRIP STRIP STATION TOP-REBAR TOP-REBAR BOT-REBAR BOT-REBAR ID WIDTH Y-ORDINATE LEFT OF Y RIGHT OF Y LEFT OF Y RIGHT OF Y

23 217.500 202.500 15.729 15.729
23 217.500 262.500 15.729 15.729 15.729 15.729
23 217.500 322.500 15.729 15.729 15.729 15.729
23 217.500 411.250 15.729 15.729 0.000 0.000
23 217.500 500.000 15.729 0.000

29 217.500 500.000 15.729 0.000
29 217.500 559.375 15.729 15.729
29 217.500 618.750 15.729 15.729
29 217.500 619.163 15.729 15.729 0.000
29 217.500 678.332 15.729 15.729 15.729 15.729
29 217.500 737.500 15.729 15.729 15.729 15.729
29 217.500 797.500 15.729 15.729 15.729 15.729
29 217.500 857.500 15.729 15.729

24 331.000 202.500 23.937 23.937
24 331.000 262.500 23.937 23.937 23.937 0.000
24 331.000 322.500 23.937 23.937 0.000 0.000
24 331.000 411.250 23.937 23.937
24 331.000 500.000 23.937 0.000

30 331.000 500.000 23.937
30 331.000 559.375 23.937 23.937
30 331.000 618.750 23.937 23.937
30 331.000 619.163 23.937 23.937 0.000
30 331.000 678.332 23.937 23.937 0.000 0.000
30 331.000 737.500 23.937 23.937 23.937 23.937
30 331.000 797.500 23.937 23.937 23.937 23.937
30 331.000 857.500 23.937 23.937

25 208.000 202.500 15.042 15.042
25 208.000 262.500 15.042 15.042 0.000 0.000
25 208.000 322.500 15.042 15.042 15.042 15.042
25 208.000 411.250 15.042 15.042 0.000 0.000
25 208.000 500.000 15.042 15.042

31 208.000 500.000 15.042 0.000
31 208.000 559.375 15.042 15.042 0.000 0.000
31 208.000 618.750 15.042 15.042 0.000 0.000
31 208.000 619.163 15.042 15.042 0.000 0.000
31 208.000 678.332 15.042 15.042 0.000 0.000
31 208.000 737.500 15.042 15.042 0.000 0.000
31 208.000 797.500 15.042 15.042 15.042 15.042
31 208.000 857.500 15.042 15.042

27 331.000 202.500 23.937 0.000
27 331.000 262.500 23.937 23.937
27 331.000 322.500 23.937 23.937 0.000 0.000
27 331.000 411.250 23.937 23.937
27 331.000 500.000 23.937 0.000

32 331.000 500.000 23.937 0.000
32 331.000 559.375 23.937 23.937
32 331.000 618.750 23.937 23.937 0.000 0.000
32 331.000 619.163 23.937 23.937 0.000 0.000
32 331.000 678.332 23.937 23.937 0.000 0.000
32 331.000 737.500 23.937 23.937 23.937 23.937
32 331.000 797.500 23.937 23.937 23.937 23.937
32 331.000 857.500 23.937 23.937

26 756.500 0.000 27.353 27.353
26 756.500 67.500 54.707 54.707 0.000 0.000
26 756.500 135.000 54.707 54.707 0.000 0.000

28 217.500 202.500 15.729 15.729
28 217.500 262.500 15.729 15.729 0.000 0.000
28 217.500 322.500 15.729 15.729 15.729 15.729
28 217.500 411.250 15.729 15.729 0.000 0.000
28 217.500 500.000 15.729 0.000
33 217.500 500.000 15.729 0.000
33 217.500 559.375 15.729 15.729 0.000 0.000
33 217.500 618.750 15.729 15.729 0.000 0.000
33 217.500 619.163 15.729 15.729 0.000 0.000
33 217.500 678.332 15.729 15.729 15.729 15.729
33 217.500 737.500 15.729 15.729 15.729 15.729
33 217.500 797.500 15.729 15.729 15.729 15.729
33 217.500 857.500 15.729 15.729

SAFE v8.1.0 File: 2208A-SC2-4-220813-001 Kgf-cm Units PAGE 3 August 16,2022 13:56

Lo-Lat Structure Studio

B E A M REINFORCING (flexural in Sq-cm and shear in Sq-cm/meter)

LINE STATION(S) STATION(S) TOP-REBAR TOP-REBAR BOT-REBAR BOT-REBAR SHEAR-REBAR SHEAR-REBAR ID X-ORDINATE Y-ORDINATE LEFT OF S RIGHT OF S LEFT OF S RIGHT OF S LEFT OF S RIGHT OF S

B3 548.500 0.000 0.000 0.000
B3 600.500 0.000 0.109 0.101 0.000 0.000 0.000 0.000
B3 652.500 0.000 0.222 0.219 0.000 0.000 0.000 0.000
B3 704.500 0.000 0.286 0.290 0.000 0.000 0.000 0.000
B3 756.500 0.000 0.322 0.282 0.000 0.000 0.000 0.000
B3 839.250 0.000 0.546 0.527 0.000 0.000 0.000 0.000
B3 922.000 0.000 0.697 0.669 0.000 0.000 0.000 0.000
B3 1004.750 0.000 0.754 0.721 0.000 0.000 0.000 0.000
B3 1087.500 0.000 0.700 0.576 0.162 0.099 0.000 0.000
B3 1185.000 0.000 0.633 0.535 0.186 0.093 0.000 0.000
B3 1245.000 0.000 0.455 0.321 0.157 0.083 0.000 0.000
B3 1305.000 0.000 0.182 0.145 0.000 0.000

B8 548.500 0.000 0.000 0.000
B8 548.500 67.500 0.129 0.112 0.000 0.000 0.000 0.000
B8 548.500 135.000 0.174 0.209 0.000 0.000 0.000 0.000
B8 548.500 202.500 0.295 0.196 0.000 0.000

B15 1305.000 0.000 0.095 0.059 0.000 0.000
B15 1305.000 67.500 0.201 0.281 0.000 0.000 0.000 0.000
B15 1305.000 135.000 0.238 0.277 0.000 0.000 0.000 0.000
B15 1305.000 202.500 0.247 0.000 0.000

B20 0.000 202.500 0.135 0.072 0.000 0.000
B20 60.000 202.500 0.662 0.620 0.477 0.366 0.000 0.000
B20 120.000 202.500 1.288 1.236 1.111 1.053 0.000 0.000
B20 217.500 202.500 0.792 0.756 0.000 0.000

B22 217.500 202.500 0.856 0.850 0.000 0.000
B22 300.250 202.500 0.840 0.830 0.332 0.326 0.000 0.000
B22 383.000 202.500 0.716 0.673 0.109 0.129 0.000 0.000
B22 465.750 202.500 0.370 0.295 0.000 0.000 0.000 0.000
B22 548.500 202.500 0.000 0.132 0.000

B24 548.500 202.500 0.000 0.129 0.000
B24 600.500 202.500 0.137 0.122 0.000 0.000 0.000 0.000
B24 652.500 202.500 0.250 0.239 0.000 0.000 0.000 0.000
B24 704.500 202.500 0.276 0.275 0.000 0.000 0.000 0.000
B24 756.500 202.500 0.276 0.000 0.000

B26 756.500 202.500 0.180 0.000 0.000
B26 839.250 202.500 0.558 0.528 0.000 0.000 0.000 0.000
B26 922.000 202.500 0.754 0.746 0.000 0.000 0.000 0.000
B26 1004.750 202.500 0.807 0.813 0.000 0.000 0.000 0.000
B26 1087.500 202.500 0.645 0.286 0.000

B28 1087.500 202.500 0.556 0.202 0.000 0.000
B28 1185.000 202.500 0.928 0.930 0.498 0.536 0.000 0.000
B28 1245.000 202.500 0.444 0.495 0.091 0.232 0.000 0.000
B28 1305.000 202.500 0.063 0.000 0.000

B55 0.000 202.500 0.178 0.088 0.000 0.000
B55 0.000 262.500 0.483 0.426 0.210 0.066 0.000 0.000
B55 0.000 322.500 0.902 0.882 0.527 0.473 0.000 0.000
B55 0.000 411.250 0.720 0.652 0.000 0.000 0.000 0.000
B55 0.000 500.000 0.579 0.000 0.000

B56 217.500 202.500 0.067 0.174 0.000
B56 217.500 262.500 0.529 0.454 0.000 0.000 0.000 0.000
B56 217.500 322.500 0.767 0.671 0.000 0.000 0.000 0.000
B56 217.500 411.250 0.756 0.664 0.000 0.000 0.000 0.000
B56 217.500 500.000 0.330 0.000 0.000

B57 548.500 202.500 0.157 0.000 0.000
B57 548.500 262.500 0.253 0.261 0.000 0.000 0.000 0.000
B57 548.500 322.500 0.378 0.403 0.160 0.137 0.000 0.000
B57 548.500 411.250 0.416 0.420 0.000 0.000 0.000 0.000
B57 548.500 500.000 0.277 0.000 0.000

B58 756.500 202.500 0.197 0.000 0.000 0.000
B58 756.500 262.500 0.223 0.266 0.000 0.000 0.000 0.000
B58 756.500 322.500 0.325 0.362 0.215 0.170 0.000 0.000
B58 756.500 411.250 0.325 0.340 0.000 0.000 0.000 0.000
B58 756.500 500.000 0.238 0.000 0.000

B59 1087.500 202.500 0.129 0.138 0.000
B59 1087.500 262.500 0.255 0.293 0.000 0.000 0.000 0.000
B59 1087.500 322.500 0.426 0.451 0.000 0.000 0.000 0.000
B59 1087.500 411.250 0.430 0.426 0.000 0.000 0.000 0.000
B59 1087.500 500.000 0.157 0.105 0.000

B60 1305.000 202.500 0.287 0.000 0.000
B60 1305.000 262.500 0.354 0.303 0.000 0.000 0.000 0.000
B60 1305.000 322.500 0.673 0.665 0.438 0.417 0.000 0.000
B60 1305.000 411.250 0.395 0.374 0.000 0.000 0.000 0.000
B60 1305.000 500.000 0.409 0.094 0.000

B86 0.000 500.000 0.000 0.000
B86 60.000 500.000 0.551 0.554 0.335 0.231 0.000 0.000
B86 120.000 500.000 0.880 0.954 0.616 0.618 0.000 0.000
B86 217.500 500.000 0.663 0.516 0.000 0.000

B88 217.500 500.000 0.899 0.731 0.572 0.000
B88 300.250 500.000 0.899 0.895 0.210 0.250 0.000 0.000
B88 383.000 500.000 0.813 0.812 0.072 0.087 0.000 0.000
B88 465.750 500.000 0.494 0.520 0.000 0.000 0.000 0.000
B88 548.500 500.000 0.079 0.209 0.000 0.000

B90 548.500 500.000 0.115 0.200 0.000
B90 600.500 500.000 0.095 0.102 0.000 0.000 0.000 0.000
B90 652.500 500.000 0.095 0.106 0.000 0.000 0.000 0.000
B90 704.500 500.000 0.103 0.112 0.000 0.000 0.000 0.000
B90 756.500 500.000 0.120 0.173 0.000

B92 756.500 500.000 0.110 0.128 0.000
B92 839.250 500.000 0.519 0.533 0.000 0.000 0.000 0.000
B92 922.000 500.000 0.796 0.830 0.000 0.000 0.000 0.000
B92 1004.750 500.000 0.860 0.888 0.147 0.117 0.000 0.000
B92 1087.500 500.000 0.663 0.444 0.000

B94 1087.500 500.000 0.624 0.405 0.000
B94 1185.000 500.000 0.886 0.849 0.511 0.542 0.000 0.000
B94 1245.000 500.000 0.510 0.542 0.152 0.292 0.000 0.000
B94 1305.000 500.000 0.000 0.000 0.000

B133 0.000 500.000 0.633 0.000 0.000
B133 0.000 559.375 0.613 0.636 0.000 0.000 0.000 0.000
B133 0.000 618.750 0.853 0.870 0.000 0.000 0.000 0.000
B133 0.000 619.163 0.871 0.856 0.000 0.000 0.000 0.000
B133 0.000 678.332 0.996 1.006 0.215 0.214 0.000 0.000
B133 0.000 737.500 1.108 1.031 0.626 0.607 0.000 0.000
B133 0.000 797.500 0.514 0.549 0.156 0.288 0.000 0.000
B133 0.000 857.500 0.165 0

B135	217.500	619.163	0.832	0.838	0.000	0.000	0.000	0.000
B135	217.500	678.332	0.844	0.910	0.000	0.000	0.000	0.000
B135	217.500	737.500	0.692	0.676	0.265	0.287	0.000	0.000
B135	217.500	797.500	0.470	0.486	0.052	0.164	0.000	0.000
B135	217.500	857.500	0.118	0.097	0.000	0.000	0.000	0.000
B137	548.500	500.000	0.241	0.000	0.000	0.000	0.000	0.000
B137	548.500	559.375	0.530	0.495	0.000	0.000	0.000	0.000
B137	548.500	618.750	0.681	0.682	0.000	0.000	0.000	0.000
B137	548.500	619.163	0.683	0.657	0.000	0.000	0.000	0.000
B137	548.500	678.332	0.696	0.711	0.000	0.000	0.000	0.000
B137	548.500	737.500	0.562	0.514	0.213	0.199	0.000	0.000
B137	548.500	797.500	0.386	0.400	0.000	0.100	0.000	0.000
B137	548.500	857.500	0.056	0.000	0.000	0.000	0.000	0.000
B139	756.500	500.000	0.206	0.000	0.000	0.000	0.000	0.000
B139	756.500	559.375	0.467	0.471	0.000	0.000	0.000	0.000
B139	756.500	618.750	0.585	0.602	0.000	0.000	0.000	0.000
B139	756.500	619.163	0.602	0.540	0.000	0.000	0.000	0.000
B139	756.500	678.332	0.661	0.661	0.000	0.000	0.000	0.000
B139	756.500	737.500	0.582	0.524	0.211	0.195	0.000	0.000
B139	756.500	797.500	0.383	0.394	0.000	0.102	0.000	0.000
B139	756.500	857.500	0.052	0.000	0.000	0.000	0.000	0.000
B141	1087.500	500.000	0.182	0.096	0.000	0.000	0.000	0.000
B141	1087.500	559.375	0.466	0.502	0.000	0.000	0.000	0.000
B141	1087.500	618.750	0.705	0.739	0.000	0.000	0.000	0.000
B141	1087.500	619.163	0.740	0.753	0.000	0.000	0.000	0.000
B141	1087.500	678.332	0.766	0.839	0.100	0.079	0.000	0.000
B141	1087.500	737.500	0.631	0.625	0.299	0.312	0.000	0.000
B141	1087.500	797.500	0.437	0.457	0.068	0.166	0.000	0.000
B141	1087.500	857.500	0.103	0.096	0.000	0.000	0.000	0.000
B143	1305.000	500.000	0.464	0.101	0.000	0.000	0.000	0.000
B143	1305.000	559.375	0.519	0.538	0.000	0.000	0.000	0.000
B143	1305.000	618.750	0.757	0.777	0.106	0.081	0.000	0.000
B143	1305.000	619.163	0.778	0.764	0.082	0.076	0.000	0.000
B143	1305.000	678.332	0.901	0.917	0.283	0.269	0.000	0.000
B143	1305.000	737.500	1.003	0.937	0.447	0.617	0.000	0.000
B143	1305.000	797.500	0.468	0.507	0.179	0.264	0.000	0.000
B143	1305.000	857.500	0.154	0.112	0.000	0.000	0.000	0.000
B148	0.000	857.500	0.118	0.000	0.000	0.000	0.000	0.000
B168	60.000	857.500	0.658	0.698	0.459	0.348	0.000	0.000
B168	120.000	857.500	1.270	1.252	1.094	1.021	0.000	0.000
B168	217.500	857.500	0.798	0.602	0.000	0.000	0.000	0.000
B170	217.500	857.500	0.902	0.657	0.000	0.000	0.000	0.000
B170	300.250	857.500	0.926	0.929	0.283	0.282	0.000	0.000
B170	383.000	857.500	0.820	0.816	0.071	0.071	0.000	0.000
B170	463.750	857.500	0.514	0.494	0.000	0.000	0.000	0.000
B170	548.500	857.500	0.098	0.061	0.000	0.000	0.000	0.000
B172	548.500	857.500	0.198	0.129	0.000	0.000	0.000	0.000
B172	600.500	857.500	0.149	0.134	0.000	0.000	0.000	0.000
B172	652.500	857.500	0.180	0.183	0.000	0.000	0.000	0.000
B172	704.500	857.500	0.140	0.156	0.000	0.000	0.000	0.000
B172	756.500	857.500	0.183	0.103	0.000	0.000	0.000	0.000
B174	756.500	857.500	0.000	0.000	0.000	0.000	0.000	0.000
B174	839.250	857.500	0.497	0.525	0.000	0.000	0.000	0.000
B174	922.000	857.500	0.786	0.800	0.000	0.000	0.000	0.000
B174	1004.750	857.500	0.875	0.888	0.257	0.267	0.000	0.000
B174	1087.500	857.500	0.840	0.641	0.000	0.000	0.000	0.000
B176	1087.500	857.500	0.777	0.583	0.000	0.000	0.000	0.000
B176	1185.000	857.500	1.207	1.234	0.986	1.065	0.000	0.000
B176	1245.000	857.500	0.566	0.641	0.325	0.447	0.000	0.000
B176	1305.000	857.500	0.104	0.054	0.000	0.000	0.000	0.000

SAFE v8.1.0 File: 2208A-SC2-4-220813-001 Kgf-cm Units PAGE 5
August 16,2022 13:56

Lo-Lat Structure Studio

Y - STRIP DESIGN MOMENTS

Y-STRIP STRIP STATION TOP-MOMENT TOP-MOMENT BOT-MOMENT BOT-MOMENT
ID WIDTH Y-ORDINATE LEFT OF Y RIGHT OF Y LEFT OF Y RIGHT OF Y

23	217.500	202.500	39571.103	64099.667				
			BASE39	BASE27				
23	217.500	262.500	184982.254	152895.559	38665.190	34343.395		
			BASE32	BASE32	BASE36	BASE36		
23	217.500	322.500	272495.425	249349.965	45552.246	61081.879		
			BASE32	BASE32	BASE36	BASE36		
23	217.500	411.250	245704.901	223634.008	10667.764	1575.217		
			BASE32	BASE32	BASE36	BASE36		
23	217.500	500.000	99853.058	2890.465				
			BASE27	BASE37				
29	217.500	500.000	-96835.931	1404.339				
			BASE21	BASE39				
29	217.500	559.375	-21409.863	-217282.754				
			BASE28	BASE28				
29	217.500	618.750	291271.919	294729.155				
			BASE28	BASE28				
29	217.500	619.163	295067.111	298176.336	914.932			
			BASE28	BASE28	BASE40			
29	217.500	678.332	319920.066	330411.041	31781.150	39798.157		
			BASE28	BASE28	BASE40	BASE40		
29	217.500	737.500	291822.129	298930.395	85380.109	90737.854		
			BASE28	BASE28	BASE40	BASE40		
29	217.500	797.500	173367.289	194345.657	41735.106	49488.472		
			BASE28	BASE28	BASE40	BASE40		
29	217.500	857.500	41457.188	57594.995				
			BASE37	BASE25				
24	331.000	202.500	-97007.366	114660.549				
			BASE27	BASE27				
24	331.000	262.500	176714.355	188995.223	29554.430	18157.312		
			BASE32	BASE32	BASE27	BASE27		
24	331.000	322.500	269999.232	27746.297	9306.978	19196.734		
			BASE32	BASE32	BASE26	BASE26		
24	331.000	411.250	-278904.355	-279762.726				
			BASE32	BASE32				
24	331.000	500.000	-169780.856	2664.540				
			BASE26	BASE40				
30	331.000	500.000	-160169.974					
			BASE28					
30	331.000	559.375	31267.708	30843.841				
			BASE28	BASE28				
30	331.000	618.750	402051.455	400880.507				
			BASE28	BASE28				
30	331.000	619.163	401310.319	399636.283	370.509			
			BASE28	BASE28	BASE40			
30	331.000	678.332	424456.695	411488.733	16213.007	14994.720		
			BASE28	BASE28	BASE40	BASE40		
30	331.000	737.500	36790.859	-37948.310	54077.515	39035.540		
			BASE32	BASE32	BASE40	BASE40		
30	331.000	797.500	245542.669	219622.056	44969.006	31089.228		
			BASE28	BASE28	BASE40	BASE40		
30	331.000	857.500	-52186.231	49443.622				
			BASE28	BASE40				
25	208.000	202.500	-46031.793	24966.173				
			BASE21	BASE32				
25	208.000	262.500	81086.012	86845.568	20947.783	16608.606		
			BASE32	BASE32	BASE27	BASE27		
25	208.000	322.500	111743.898	123228.437	28091.062	35028.870		
			BASE38	BASE40	BASE26	BASE26		
25	208.000	411.250	110441.712	124237.330	3464.132	1673.247		
			BASE32	BASE32	BASE27	BASE27		
25	208.000	500.000	77499.971	27714.490				
			BASE26	BASE32				
31	208.000	500.000	77141.586	6163.188				
			BASE21	BASE32				
31	208.000	559.375	-159799.500	-155314.389	1697.248			
			BASE26	BASE26	BASE40			
31	208.000	618.750	194761.512	191707.765	5925.607			
			BASE38	BASE26	BASE40			
31	208.000	619.163	192071.012	187350.592	4302.666			
			BASE26	BASE26	BASE40			
31	208.000	678.332	223966.777	214146.341	16705.278	17932.491		
			BASE28	BASE28	BASE40	BASE40		
31	208.000	737.500	198236.999	194475.401	48586.105	26310.487		
			BASE28	BASE28	BASE40	BASE40		
31	208.000	797.500	-131228.830	-122697.358	25508.080	23568.936		
			BASE28	BASE28	BASE40	BASE37		
31	208.000	857.500	-51530.193	48797.978				
			BASE29	BASE29				
27	331.000	202.500	-101119.268	7934.341				
			BASE21	BASE26				
27	331.000	262.500	170522.094	176586.479				
			BASE21	BASE30				
27	331.000	322.500	-197889.331	-214796.381	4942.266	12776.327		
			BASE30	BASE30	BASE26	BASE28		
27	331.000	411.250	-191620.173	-194905.341				

27	331.000	500.000	BASE21 BASE22 BASE26	BASE21 BASE22 BASE30	6584.660				
32	331.000	500.000		BASE26 BASE23	-126481.181 3017.101				
32	331.000	559.375		BASE26 BASE26	-271037.027 -271152.607				
32	331.000	618.750		BASE26 BASE26 BASE26	-359999.466 -360866.097 389.355				
32	331.000	619.163		BASE26 BASE26	-361269.668 -356175.122				
32	331.000	678.332		BASE26 BASE26 BASE26 BASE26	-392592.722 -383673.623 8527.794 7143.363				
32	331.000	737.500		BASE26 BASE26 BASE26 BASE26	-349288.890 -32815.791 49208.013 33630.813				
32	331.000	797.500		BASE26 BASE26 BASE26 BASE26	-236644.533 -112414.652 5710.280 21839.668				
32	331.000	857.500		BASE26 BASE29	-64667.597 65149.206				
26	756.500	0.000		BASE29 BASE32 BASE27	-61419.112 51932.461 2265.560				
26	756.500	67.500		BASE30 BASE31 BASE39	-337448.473 -342484.102 2265.560				
26	756.500	135.000		BASE21 BASE21 BASE21 BASE27	-880871.737 -881521.524 3175.931 6639.030				
26	756.500	202.500		BASE35 BASE31	-215134.567 85024.494				
28	217.500	202.500		BASE35 BASE31	-97037.333 62849.991				
28	217.500	262.500		BASE30 BASE30 BASE34 BASE34	-118961.427 -113921.024 2471.452 6534.862				
28	217.500	322.500		BASE30 BASE30 BASE30 BASE30 BASE30	-17786.140 -17669.891 22600.801 38038.250 38038.250				
28	217.500	411.250		BASE31 BASE31 BASE35 BASE35	-136802.819 -138384.315 3961.720 3582.275				
28	217.500	500.000		BASE34 BASE29	-68855.799 17155.397				
33	217.500	500.000		BASE34 BASE31	-63426.450 11150.741				
33	217.500	559.375		BASE26 BASE26 BASE26 BASE26	-181863.433 -182521.942 571.550 114.485				
33	217.500	618.750		BASE26 BASE26 BASE26 BASE26	-260820.642 -264444.557 9216.922 9307.711				
33	217.500	619.163		BASE26 BASE26 BASE26 BASE26	-264790.009 -268063.912 9423.543 16525.615				
33	217.500	678.332		BASE26 BASE26 BASE26 BASE26	-292375.439 -303136.855 47012.042 57481.176				
33	217.500	737.500		BASE26 BASE26 BASE26 BASE26	-28070.161 -276064.309 98866.209 97613.224				
33	217.500	797.500		BASE26 BASE26 BASE26 BASE26	-160597.783 -181779.181 45335.620 50884.060				
33	217.500	857.500		BASE26 BASE29	-39532.919 60043.827				

SAFE v8.1.0 File: Z20RA-SC2-4-22081-001 Kgf-cm Units PAGE 6

August 16, 2022 13:56

Lo-La Structure Studio

BEAM DESIGN MOMENTS & SHEARS

LINE STATION(S)	STATION(S)	TOP MOMENT	BOT MOMENT	BOT MOMENT	SHEAR	SHEAR
ID	X-ORDINATE	Y-ORDINATE	LEFT OF S	RIGHT OF S	LEFT OF S	RIGHT OF S
B3	58.500	0.000	0.000	270.97		
B3	600.500	0.000	-9893.613	-9185.240	0.000	0.000
B3	652.500	0.000	-20105.019	-19828.126	0.000	0.000
B3	704.500	0.000	-25877.076	-26276.460	0.000	0.000
B3	756.500	0.000	-29210.797	-25514.409	0.000	0.000
B3	839.250	0.000	-49397.731	-47685.176	0.000	0.000
B3	922.000	0.000	-63066.374	-60525.233	0.000	0.000
B3	1004.750	0.000	-68247.664	-65209.556	1686.806	1297.272
B3	1087.500	0.000	-63358.724	-52133.715	14684.546	8975.598
B3	1185.000	0.000	-57344.359	-48417.827	16853.233	8426.028
B3	1245.000	0.000	-41214.001	-29119.235	12425.036	7492.882
B3	1305.000	0.000	-16501.583	13123.143	263.94	
B8	58.500	0.000	-1270.010	4599.975	167.35	
B8	58.500	67.500	-11662.015	-10180.040	0.000	0.000
B8	58.500	135.000	-15800.107	-18977.053	0.000	0.000
B8	58.500	202.500	-26742.119	-17773.154	207.57	
B15	1305.000	0.000	-8630.741	5310.367	174.12	
B15	1305.000	67.500	-18219.273	-25470.617	0.000	0.000
B15	1305.000	135.000	-21535.027	-25116.470	0.000	0.000
B15	1305.000	202.500	-22355.513	1707.915	391.11	
B20	0.000	202.500	-12222.307	6571.509	1006.46	
B20	60.000	202.500	-8996.143	-56155.074	43174.684	33150.271
B20	120.000	202.500	-116327.274	-111622.405	100400.686	95176.327
B20	217.500	202.500	-71670.014	68416.446	511.50	
B22	217.500	202.500	-77440.536	76867.682	681.05	
B22	300.250	202.500	-75964.510	-75110.698	30046.439	29565.829
B22	383.000	202.500	-64823.568	-60929.549	9858.502	11889.667
B22	465.750	202.500	-33529.529	-26549.149	3029.327	4489.669
B22	548.500	202.500	-302.235	12010.690	455.25	
B24	548.500	202.500	0.000	11690.407	446.44	
B24	600.500	202.500	-12467.486	-11100.039	3092.184	996.335
B24	652.500	202.500	-22655.711	-21675.304	0.000	0.000
B24	704.500	202.500	-35050.047	-24899.197	0.000	0.000
B24	756.500	202.500	-24999.900	0.000	226.73	
B26	756.500	202.500	-16279.098	0.000	435.06	
B26	839.250	202.500	-50483.149	-47772.226	0.000	0.000
B26	922.000	202.500	-68200.999	-67474.908	0.000	0.000
B26	1004.750	202.500	-72997.832	-73504.204	4514.302	178.156
B26	1087.500	202.500	-58345.717	25920.495	535.24	
B28	1087.500	202.500	-50312.138	18342.388	346.82	
B28	1185.000	202.500	-83959.347	-84099.865	45068.780	48540.986
B28	1245.000	202.500	-40174.368	-44843.531	8272.927	21073.046
B28	1305.000	202.500	-5706.754	4507.341	795.56	
B55	0.000	202.500	-16129.494	7946.173	759.89	
B55	0.000	262.500	-43789.056	-38611.174	19073.629	5962.286
B55	0.000	322.500	-81560.189	-79811.239	47355.071	42843.956
B55	0.000	411.250	-65188.569	-59942.919	1711.771	0.000
B55	0.000	500.000	-52376.944	0.000	314.07	
B56	217.500	202.500	-6065.766	15819.944	840.11	
B56	217.500	262.500	-47927.967	-41079.563	9243.975	3126.139
B56	217.500	322.500	-69438.022	-60735.679	0.000	0.000
B56	217.500	411.250	-68408.948	-60144.353	0.000	0.000
B56	217.500	500.000	-29890.680	0.000	423.10	
B57	548.500	202.500	-14261.469	4318.205	409.94	
B57	548.500	262.500	-22957.619	-23643.377	0.000	0.000
B57	548.500	322.500	-34274.378	-36504.132	14488.779	12380.499
B57	548.500	411.250	-37685.850	-38037.983	0.000	0.000
B57	548.500	500.000	-25127.140	0.000	323.59	
B58	756.500	202.500	-17830.783	0.000	283.42	
B58	756.500	262.500	-20200.096	-24082.646	0.000	0.000
B58	756.500	322.500	-29432.610	-32839.707	19487.712	15446.375
B58	756.500	411.250	-29441.184	-30784.902	0.000	0.000
B58	756.500	500.000	-21953.986	0.000	319.11	
B59	1087.500	202.500	-11726.261	12468.299	515.61	
B59	1087.500	262.500	-23098.301	-26554.862	0.000	0.000
B59	1087.500	322.500	-39471.608	-40880.096	0.000	0.000
B59	1087.500	411.250	-38924.453	-38571.754	0.000	0.000
B59	1087.500	500.000	-14212.453	9544.779	447.92	
B60	1305.000	202.500	-25976.071	389.999	511.95	
B60	1305.000	262.500	-32034.379	-27450.910	3309.807	0.000
B60	1305.000	322.500	-40688.323	-40193.235	39650.768	37754.506
B60	1305.000	411.250	-35763.687	-33857.217	0.000	0.000
B60	1305.000	500.000	-37037.280	8490.143	332.51	

B86	0.000	500.000	0.000	835.02		
B86	60.000	500.000	-49934.698	-50187.249	30368.125	20918.499
B86	120.000	500.000	-79589.146	-86232.144	55763.400	55942.649
B86	217.500	500.000	-59982.932	46761.477	316.11	
B88	217.500	500.000	-66180.676	51775.378	605.61	
B88	300.250	500.000	-81327.963	-80979.400	19047.428	23642.764
B88	383.000	500.000	-73552.883	-73414.773	6525.417	7850.040
B88	465.750	500.000	-44775.096	-4072.405	3673.216	3792.211
B88	548.500	500.000	-7137.598	18986.954	592.96	
B90	548.500	500.000	-10409.480	18171.896	325.96	
B90	600.500	500.000	-8658.374	-9247.493	1266.637	1910.590
B90	652.500	500.000	-8630.108	-9655.208	0.000	0.000
B90	704.500	500.000	-9358.794	-10145.617	2347.499	0.000
B90	756.500	500.000	-10960.262	15716.510	317.40	
B92	756.500	500.000	-9941.734	11622.951	524.74	
B92	839.250	500.000	-47025.090	-48239.771	0.000	0.000
B92	922.000	500.000	-72003.047	-75112.200	569.095	0.000
B92	1004.750	500.000	-77756.172	-80356.765	13367.873	10655.058
B92	1087.500	500.000	-59994.763	40208.223	585.50	
B94	1087.500	500.000	-56499.273	36711.353	272.79	
B94	1185.000	500.000	-80123.383	-76786.160	46305.102	49071