Company: Company Engineer: Name
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 5) 9:31:45 a. m. 27/06/2025
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GENERAL INPUT DATA

Structure type: Three-Dimensional Frame Structure
Number of Floor Grids . . . . = 1
Building total length . . . . = 65.52 m
Building total width . . . . . = 11.62 m

STORY INFORMATION

Number of Stories . . . . = 1
Total Frame Height . . . . = 3.05 m

Floor	Story Height	Grid No
1	3.05	1
2	-	1

* Story Height in (m)

STRUCTURAL GRID INFORMATION

GRID No 1

Grid Point	X	Y
B'-6	0.00	0.00
C-6	0.00	2.24
A-6	0.00	10.30
A'-6	0.00	11.62
B'-1'	1.85	0.00
C-1'	1.85	2.24
A-1'	1.85	10.30
A'-1'	1.85	11.62
B'-8	3.70	0.00
C-8	3.70	2.24
A-8	3.70	10.30
A'-8	3.70	11.62
B'-2'	5.81	0.00
C-2'	5.81	2.24
A-2'	5.81	10.30
A'-2'	5.81	11.62
B'-3'	7.92	0.00
C-3'	7.92	2.24
A-3'	7.92	10.30
A'-3'	7.92	11.62
B'-4'	10.03	0.00
C-4'	10.03	2.24
A-4'	10.03	10.30
A'-4'	10.03	11.62
B'-12	12.14	0.00
C-12	12.14	2.24
A-12	12.14	10.30
A'-12	12.14	11.62
B'-5'	14.35	0.00
C-5'	14.35	2.24
A-5'	14.35	10.30
A'-5'	14.35	11.62
B'-13	16.56	0.00
C-13	16.56	2.24
A-13	16.56	10.30
A'-13	16.56	11.62
B'-6'	18.77	0.00
C-6'	18.77	2.24
A-6'	18.77	10.30
A'-6'	18.77	11.62
B'-15	20.98	0.00
C-15	20.98	2.24
A-15	20.98	10.30
A'-15	20.98	11.62
B'-7'	23.08	0.00
C-7'	23.08	2.24
A-7'	23.08	10.30
A'-7'	23.08	11.62
B'-8'	25.18	0.00
C-8'	25.18	2.24
A-8'	25.18	10.30
A'-8'	25.18	11.62
B'-9'	27.28	0.00
C-9'	27.28	2.24
A-9'	27.28	10.30
A'-9'	27.28	11.62
B'-16	29.38	0.00

Grid Point	X	Y
C-16	29.38	2.24
A-16	29.38	10.30
A'-16	29.38	11.62
B'-10'	31.51	0.00
C-10'	31.51	2.24
A-10'	31.51	10.30
A'-10'	31.51	11.62
B'-11'	33.64	0.00
C-11'	33.64	2.24
A-11'	33.64	10.30
A'-11'	33.64	11.62
B'-12'	35.77	0.00
C-12'	35.77	2.24
A-12'	35.77	10.30
A'-12'	35.77	11.62
B'-17	37.90	0.00
C-17	37.90	2.24
A-17	37.90	10.30
A'-17	37.90	11.62
B'-13'	40.02	0.00
C-13'	40.02	2.24
A-13'	40.02	10.30
A'-13'	40.02	11.62
B'-14'	42.14	0.00
C-14'	42.14	2.24
A-14'	42.14	10.30
A'-14'	42.14	11.62
B'-19	44.26	0.00
C-19	44.26	2.24
A-19	44.26	10.30
A'-19	44.26	11.62
B'-15'	46.36	0.00
C-15'	46.36	2.24
A-15'	46.36	10.30
A'-15'	46.36	11.62
B'-16'	48.46	0.00
C-16'	48.46	2.24
A-16'	48.46	10.30
A'-16'	48.46	11.62
B'-17'	50.56	0.00
C-17'	50.56	2.24
A-17'	50.56	10.30
A'-17'	50.56	11.62
B'-24	52.66	0.00
C-24	52.66	2.24
A-24	52.66	10.30
A'-24	52.66	11.62
B'-18'	54.87	0.00
C-18'	54.87	2.24
A-18'	54.87	10.30
A'-18'	54.87	11.62
B'-27	57.08	0.00
C-27	57.08	2.24
A-27	57.08	10.30
A'-27	57.08	11.62
B'-19'	59.19	0.00
C-19'	59.19	2.24
A-19'	59.19	10.30
A'-19'	59.19	11.62
B'-20'	61.30	0.00
C-20'	61.30	2.24
A-20'	61.30	10.30
A'-20'	61.30	11.62
B'-21'	63.41	0.00
C-21'	63.41	2.24
A-21'	63.41	10.30
A'-21'	63.41	11.62
B'-31	65.52	0.00
C-31	65.52	2.24
A-31	65.52	10.30
A'-31	65.52	11.62

* Coordinates X & Y are in (m)

MATERIALS

Number of materials = 2

REINFORCED CONCRETE

Mat	Name	f'c Kg/cm2	fy Kg/cm2	fys1 Kg/cm2	fys2 Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
1	RConcrete1	210	4200	4200	4200	218540	87430	2400.0
2	RConcrete2	280	4200	4200	4200	252350	100940	2400.0

f'c: Compressive strength of concrete
fy: Yield strength of longitudinal reinforcement
fys1: Yiel strength of shear reinforcement, bar sizes <= 3/8"
fys2: Yiel strength of shear reinforcement, bar sizes > 3/8"

MEMBER DATA

Total number of members..... = 221
Number of columns..... = 22
Number of beams ..... = 230
Number of braces ..... = 0

COLUMN SECTIONS

Number of prismatic sections = 1

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	C-30X50	Rectang	30.00	50.00	-	-	-	-	1500.0	312500	112500	279900

COLUMNS

Column	Story	L (m)	Lu (m)	a (m)	c (m)	Theta (o)	Sec -	Mat -	System -
A-31	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-31	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-27	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-27	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-24	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-24	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-19	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-19	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-17	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-17	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-16	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-16	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-15	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-15	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-13	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-13	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-12	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-12	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-8	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L

Column	Story	L	Lu	a	c	Theta	Sec	Mat	System
C-8	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
A-6	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L
C-6	1	3.05	2.53	0.00	0.53	0.0	1	2	G&L

BEAM SECTIONS

Number of prismatic sections = 3

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	VG-30X60	Rectang	30.00	60.00	-	-	-	-	1800.0	540000	135000	369900
2	VG-20X60	Rectang	20.00	60.00	-	-	-	-	1200.0	360000	40000	126400
3	VC-30X45	Rectang	30.00	45.00	-	-	-	-	1350.0	227812	101250	234900

BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	Sec -	Mat -	System -
C(6-8)	1	3.70	3.40	0.15	0.15	3	2	G&L
C(8-12)	1	8.44	8.14	0.15	0.15	3	2	G&L
C(12-13)	1	4.42	4.12	0.15	0.15	3	2	G&L
C(13-15)	1	4.42	4.12	0.15	0.15	3	2	G&L
C(15-16)	1	8.40	8.10	0.15	0.15	3	2	G&L
C(16-17)	1	8.52	8.22	0.15	0.15	3	2	G&L
C(17-19)	1	6.36	6.06	0.15	0.15	3	2	G&L
C(19-24)	1	8.40	8.10	0.15	0.15	3	2	G&L
C(24-27)	1	4.42	4.12	0.15	0.15	3	2	G&L
C(27-31)	1	8.44	8.14	0.15	0.15	3	2	G&L
A(6-8)	1	3.70	3.40	0.15	0.15	3	2	G&L
A(8-12)	1	8.44	8.14	0.15	0.15	3	2	G&L
A(12-13)	1	4.42	4.12	0.15	0.15	3	2	G&L
A(13-15)	1	4.42	4.12	0.15	0.15	3	2	G&L
A(15-16)	1	8.40	8.10	0.15	0.15	3	2	G&L
A(16-17)	1	8.52	8.22	0.15	0.15	3	2	G&L
A(17-19)	1	6.36	6.06	0.15	0.15	3	2	G&L
A(19-24)	1	8.40	8.10	0.15	0.15	3	2	G&L
A(24-27)	1	4.42	4.12	0.15	0.15	3	2	G&L
A(27-31)	1	8.44	8.14	0.15	0.15	3	2	G&L
B'(6-1')	2	1.85	1.70	0.15	0.00	2	2	G
B'(1'-8)	2	1.85	1.70	0.00	0.15	2	2	G
B'(8-2')	2	2.11	1.96	0.15	0.00	2	2	G
B'(2'-3')	2	2.11	2.11	0.00	0.00	2	2	G
B'(3'-4')	2	2.11	2.11	0.00	0.00	2	2	G
B'(4'-12)	2	2.11	1.96	0.00	0.15	2	2	G
B'(12-5')	2	2.21	2.06	0.15	0.00	2	2	G
B'(5'-13)	2	2.21	2.06	0.00	0.15	2	2	G
B'(13-6')	2	2.21	2.06	0.15	0.00	2	2	G
B'(6'-15)	2	2.21	2.06	0.00	0.15	2	2	G
B'(15-7')	2	2.10	1.95	0.15	0.00	2	2	G
B'(7'-8')	2	2.10	2.10	0.00	0.00	2	2	G
B'(8'-9')	2	2.10	2.10	0.00	0.00	2	2	G
B'(9'-16)	2	2.10	1.95	0.00	0.15	2	2	G
B'(16-10')	2	2.13	1.98	0.15	0.00	2	2	G
B'(10'-11')	2	2.13	2.13	0.00	0.00	2	2	G
B'(11'-12')	2	2.13	2.13	0.00	0.00	2	2	G
B'(12'-17)	2	2.13	1.98	0.00	0.15	2	2	G
B'(17-13')	2	2.12	1.97	0.15	0.00	2	2	G
B'(13'-14')	2	2.12	2.12	0.00	0.00	2	2	G
B'(14'-19)	2	2.12	1.97	0.00	0.15	2	2	G
B'(19-15')	2	2.10	1.95	0.15	0.00	2	2	G
B'(15'-16')	2	2.10	2.10	0.00	0.00	2	2	G
B'(16'-17')	2	2.10	2.10	0.00	0.00	2	2	G

Beam	Floor	L	Lu	a	c	Sec	Mat	System
B'(17'-24)								
	2	2.10	1.95	0.00	0.15	2	2	G
B'(24-18')								
	2	2.21	2.06	0.15	0.00	2	2	G
B'(18'-27)								
	2	2.21	2.06	0.00	0.15	2	2	G
B'(27-19')								
	2	2.11	1.96	0.15	0.00	2	2	G
B'(19'-20')								
	2	2.11	2.11	0.00	0.00	2	2	G
B'(20'-21')								
	2	2.11	2.11	0.00	0.00	2	2	G
B'(21'-31)								
	2	2.11	1.96	0.00	0.15	2	2	G
C(6-1')	2	1.85	1.70	0.15	0.00	1	2	G&L
C(1'-8)	2	1.85	1.70	0.00	0.15	1	2	G&L
C(8-2')	2	2.11	1.96	0.15	0.00	1	2	G&L
C(2'-3')	2	2.11	2.11	0.00	0.00	1	2	G&L
C(3'-4')	2	2.11	2.11	0.00	0.00	1	2	G&L
C(4'-12)	2	2.11	1.96	0.00	0.15	1	2	G&L
C(12-5')	2	2.21	2.06	0.15	0.00	1	2	G&L
C(5'-13)	2	2.21	2.06	0.00	0.15	1	2	G&L
C(13-6')	2	2.21	2.06	0.15	0.00	1	2	G&L
C(6'-15)	2	2.21	2.06	0.00	0.15	1	2	G&L
C(15-7')	2	2.10	1.95	0.15	0.00	1	2	G&L
C(7'-8')	2	2.10	2.10	0.00	0.00	1	2	G&L
C(8'-9')	2	2.10	2.10	0.00	0.00	1	2	G&L
C(9'-16)	2	2.10	1.95	0.00	0.15	1	2	G&L
C(16-10')	2	2.13	1.98	0.15	0.00	1	2	G&L
C(10'-11')								
	2	2.13	2.13	0.00	0.00	1	2	G&L
C(11'-12')								
	2	2.13	2.13	0.00	0.00	1	2	G&L
C(12'-17)	2	2.13	1.98	0.00	0.15	1	2	G&L
C(17-13')	2	2.12	1.97	0.15	0.00	1	2	G&L
C(13'-14')								
	2	2.12	2.12	0.00	0.00	1	2	G&L
C(14'-19)	2	2.12	1.97	0.00	0.15	1	2	G&L
C(19-15')	2	2.10	1.95	0.15	0.00	1	2	G&L
C(15'-16')								
	2	2.10	2.10	0.00	0.00	1	2	G&L
C(16'-17')								
	2	2.10	2.10	0.00	0.00	1	2	G&L
C(17'-24)	2	2.10	1.95	0.00	0.15	1	2	G&L
C(24-18')	2	2.21	2.06	0.15	0.00	1	2	G&L
C(18'-27)	2	2.21	2.06	0.00	0.15	1	2	G&L
C(27-19')	2	2.11	1.96	0.15	0.00	1	2	G&L
C(19'-20')								
	2	2.11	2.11	0.00	0.00	1	2	G&L
C(20'-21')								
	2	2.11	2.11	0.00	0.00	1	2	G&L
C(21'-31)	2	2.11	1.96	0.00	0.15	1	2	G&L
A(6-1')	2	1.85	1.70	0.15	0.00	1	2	G&L
A(1'-8)	2	1.85	1.70	0.00	0.15	1	2	G&L
A(8-2')	2	2.11	1.96	0.15	0.00	1	2	G&L
A(2'-3')	2	2.11	2.11	0.00	0.00	1	2	G&L
A(3'-4')	2	2.11	2.11	0.00	0.00	1	2	G&L
A(4'-12)	2	2.11	1.96	0.00	0.15	1	2	G&L
A(12-5')	2	2.21	2.06	0.15	0.00	1	2	G&L
A(5'-13)	2	2.21	2.06	0.00	0.15	1	2	G&L
A(13-6')	2	2.21	2.06	0.15	0.00	1	2	G&L
A(6'-15)	2	2.21	2.06	0.00	0.15	1	2	G&L
A(15-7')	2	2.10	1.95	0.15	0.00	1	2	G&L
A(7'-8')	2	2.10	2.10	0.00	0.00	1	2	G&L
A(8'-9')	2	2.10	2.10	0.00	0.00	1	2	G&L
A(9'-16)	2	2.10	1.95	0.00	0.15	1	2	G&L
A(16-10')	2	2.13	1.98	0.15	0.00	1	2	G&L
A(10'-11')								
	2	2.13	2.13	0.00	0.00	1	2	G&L
A(11'-12')								
	2	2.13	2.13	0.00	0.00	1	2	G&L
A(12'-17)	2	2.13	1.98	0.00	0.15	1	2	G&L
A(17-13')	2	2.12	1.97	0.15	0.00	1	2	G&L
A(13'-14')								
	2	2.12	2.12	0.00	0.00	1	2	G&L
A(14'-19)	2	2.12	1.97	0.00	0.15	1	2	G&L
A(19-15')	2	2.10	1.95	0.15	0.00	1	2	G&L
A(15'-16')								
	2	2.10	2.10	0.00	0.00	1	2	G&L
A(16'-17')								
	2	2.10	2.10	0.00	0.00	1	2	G&L
A(17'-24)	2	2.10	1.95	0.00	0.15	1	2	G&L
A(24-18')	2	2.21	2.06	0.15	0.00	1	2	G&L
A(18'-27)	2	2.21	2.06	0.00	0.15	1	2	G&L
A(27-19')	2	2.11	1.96	0.15	0.00	1	2	G&L

Company: Company Engineer: Name
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 5) 9:31:45 a. m. 27/06/2025

Beam	Floor	L	Lu	a	c	Sec	Mat	System
A(19'-20')	2	2.11	2.11	0.00	0.00	1	2	G&L
A(20'-21')	2	2.11	2.11	0.00	0.00	1	2	G&L
A(21'-31)	2	2.11	1.96	0.00	0.15	1	2	G&L
A'(6-1')	2	1.85	1.70	0.15	0.00	2	2	G
A'(1'-8)	2	1.85	1.70	0.00	0.15	2	2	G
A'(8-2')	2	2.11	1.96	0.15	0.00	2	2	G
A'(2'-3')	2	2.11	2.11	0.00	0.00	2	2	G
A'(3'-4')	2	2.11	2.11	0.00	0.00	2	2	G
A'(4'-12)	2	2.11	1.96	0.00	0.15	2	2	G
A'(12-5')	2	2.21	2.06	0.15	0.00	2	2	G
A'(5'-13)	2	2.21	2.06	0.00	0.15	2	2	G
A'(13-6')	2	2.21	2.06	0.15	0.00	2	2	G
A'(6'-15)	2	2.21	2.06	0.00	0.15	2	2	G
A'(15-7')	2	2.10	1.95	0.15	0.00	2	2	G
A'(7'-8')	2	2.10	2.10	0.00	0.00	2	2	G
A'(8'-9')	2	2.10	2.10	0.00	0.00	2	2	G
A'(9'-16)	2	2.10	1.95	0.00	0.15	2	2	G
A'(16-10')	2	2.13	1.98	0.15	0.00	2	2	G
A'(10'-11')	2	2.13	2.13	0.00	0.00	2	2	G
A'(11'-12')	2	2.13	2.13	0.00	0.00	2	2	G
A'(12'-17)	2	2.13	1.98	0.00	0.15	2	2	G
A'(17-13')	2	2.12	1.97	0.15	0.00	2	2	G
A'(13'-14')	2	2.12	2.12	0.00	0.00	2	2	G
A'(14'-19)	2	2.12	1.97	0.00	0.15	2	2	G
A'(19-15')	2	2.10	1.95	0.15	0.00	2	2	G
A'(15'-16')	2	2.10	2.10	0.00	0.00	2	2	G
A'(16'-17')	2	2.10	2.10	0.00	0.00	2	2	G
A'(17'-24)	2	2.10	1.95	0.00	0.15	2	2	G
A'(24-18')	2	2.21	2.06	0.15	0.00	2	2	G
A'(18'-27)	2	2.21	2.06	0.00	0.15	2	2	G
A'(27-19')	2	2.11	1.96	0.15	0.00	2	2	G
A'(19'-20')	2	2.11	2.11	0.00	0.00	2	2	G
A'(20'-21')	2	2.11	2.11	0.00	0.00	2	2	G
A'(21'-31)	2	2.11	1.96	0.00	0.15	2	2	G
6(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
8(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
12(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
13(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
15(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
16(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
17(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
19(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
24(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
27(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
31(C-A)	1	8.06	7.56	0.25	0.25	3	2	G&L
6(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
6(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
6(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
1'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
1'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
8(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
8(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
8(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
2'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
2'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
3'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
3'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
4'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
4'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
12(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
12(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
12(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
5'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
5'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G

Beam	Floor	L	Lu	a	c	Sec	Mat	System
13(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
13(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
13(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
6'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
6'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
15(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
15(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
15(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
7'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
7'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
8'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
8'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
9'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
9'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
16(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
16(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
16(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
10'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
10'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
11'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
11'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
12'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
12'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
17(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
17(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
17(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
13'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
13'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
14'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
14'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
19(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
19(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
19(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
15'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
15'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
16'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
16'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
17'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
17'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
24(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
24(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
24(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
18'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
18'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
27(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
27(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
27(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L
19'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
19'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
20'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
20'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
21'(B'-C)	2	2.24	2.09	0.00	0.15	2	2	G
21'(A-A')	2	1.32	1.17	0.15	0.00	2	2	G
31(B'-C)	2	2.24	1.99	0.00	0.25	1	2	G&L
31(C-A)	2	8.06	7.56	0.25	0.25	1	2	G&L
31(A-A')	2	1.32	1.07	0.25	0.00	1	2	G&L

FOUNDATION SOIL PROPERTIES

Number of soil properties = 1

Soil	Name	Pressure Distribution	Allowable gross pres. Pa T/m2	Increase Pa Combinations incl.EQ & WL (%)	MODULUS OF SUBGRADE REACTION Gravity load Analysis, Kg T/m3	Lateral load Analysis, Ks T/m3
1	Soil1	Linear	7.4	33	400.0	400.0

* Values of subgrade reaction are used only on footings with rotations and/or vert-displac. permitted.

FOUNDATION BEAM DATA

Number of foundation beams = 31

FOUNDATION BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	TWidth (m)	Sec -	Mat -	Soil -	System -
C(6-8)	1	3.70	3.40	0.15	0.15	1.00	3	2	1	G&L
C(8-12)	1	8.44	8.14	0.15	0.15	1.00	3	2	1	G&L
C(12-13)	1	4.42	4.12	0.15	0.15	1.00	3	2	1	G&L
C(13-15)	1	4.42	4.12	0.15	0.15	1.00	3	2	1	G&L
C(15-16)	1	8.40	8.10	0.15	0.15	1.00	3	2	1	G&L
C(16-17)	1	8.52	8.22	0.15	0.15	1.00	3	2	1	G&L
C(17-19)	1	6.36	6.06	0.15	0.15	1.00	3	2	1	G&L
C(19-24)	1	8.40	8.10	0.15	0.15	1.00	3	2	1	G&L
C(24-27)	1	4.42	4.12	0.15	0.15	1.00	3	2	1	G&L
C(27-31)	1	8.44	8.14	0.15	0.15	1.00	3	2	1	G&L
A(6-8)	1	3.70	3.40	0.15	0.15	1.00	3	2	1	G&L
A(8-12)	1	8.44	8.14	0.15	0.15	1.00	3	2	1	G&L
A(12-13)	1	4.42	4.12	0.15	0.15	1.00	3	2	1	G&L
A(13-15)	1	4.42	4.12	0.15	0.15	1.00	3	2	1	G&L
A(15-16)	1	8.40	8.10	0.15	0.15	1.00	3	2	1	G&L
A(16-17)	1	8.52	8.22	0.15	0.15	1.00	3	2	1	G&L
A(17-19)	1	6.36	6.06	0.15	0.15	1.00	3	2	1	G&L
A(19-24)	1	8.40	8.10	0.15	0.15	1.00	3	2	1	G&L
A(24-27)	1	4.42	4.12	0.15	0.15	1.00	3	2	1	G&L
A(27-31)	1	8.44	8.14	0.15	0.15	1.00	3	2	1	G&L
6(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
8(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
12(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
13(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
15(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
16(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
17(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
19(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
24(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
27(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L
31(C-A)	1	8.06	7.56	0.25	0.25	1.00	3	2	1	G&L

GROUND SUPPORT DATA

Total number of ground supports = 22

K = Spring constant(ton/cm)

Characteristics for All Degrees of Freedom
Value = K Dash = free C = constrained

Support	Floor	Type	Ux	Uy	Uz	TetX	TetY	TetZ
C-6	1	Fixed	C	C	C	C	C	C
A-6	1	Fixed	C	C	C	C	C	C
C-8	1	Fixed	C	C	C	C	C	C
A-8	1	Fixed	C	C	C	C	C	C
C-12	1	Fixed	C	C	C	C	C	C
A-12	1	Fixed	C	C	C	C	C	C
C-13	1	Fixed	C	C	C	C	C	C
A-13	1	Fixed	C	C	C	C	C	C
C-15	1	Fixed	C	C	C	C	C	C
A-15	1	Fixed	C	C	C	C	C	C
C-16	1	Fixed	C	C	C	C	C	C
A-16	1	Fixed	C	C	C	C	C	C
C-17	1	Fixed	C	C	C	C	C	C
A-17	1	Fixed	C	C	C	C	C	C
C-19	1	Fixed	C	C	C	C	C	C
A-19	1	Fixed	C	C	C	C	C	C
C-24	1	Fixed	C	C	C	C	C	C
A-24	1	Fixed	C	C	C	C	C	C
C-27	1	Fixed	C	C	C	C	C	C
A-27	1	Fixed	C	C	C	C	C	C
C-31	1	Fixed	C	C	C	C	C	C
A-31	1	Fixed	C	C	C	C	C	C

SUMMARY OF TOTAL FLOOR LOADS

LOAD CASE 1 : SELFW (D0)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	0.00	0.00	191.10	0.0	0.0	0.0
1	0.00	0.00	47.46	0.0	0.0	0.0
Total	0.00	0.00	238.55	0.0	0.0	0.0

LOAD CASE 2 : DEAD (DL)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	0.00	0.00	182.11	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	182.11	0.0	0.0	0.0

LOAD CASE 3 : ROOF L (RFL)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	0.00	0.00	73.05	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	73.05	0.0	0.0	0.0

LOAD CASE 4 : EQUAKE X (EQX) - TYPE : SPECTRAL

	Force (ton)			Acc. Tors. Mom. (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	268.04	0.00	0.00	0.0	0.0	155.7
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	268.04	0.00	0.00	0.0	0.0	155.7

LOAD CASE 5 : EQUAKE Y (EQY) - TYPE : SPECTRAL

	Force (ton)			Acc. Tors. Mom. (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	0.00	266.25	0.00	0.0	0.0	873.8
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	266.25	0.00	0.0	0.0	873.8

LOAD CASE 6 : WIND X (WLX)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	0.99	0.00	0.00	0.0	0.0	0.6
1	0.68	0.00	0.00	0.0	0.0	0.0
Total	1.67	0.00	0.00	0.0	0.0	0.6

LOAD CASE 7 : WIND Y (WLY)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
2	0.00	6.76	0.00	0.0	0.0	23.3
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	6.76	0.00	0.0	0.0	23.3

SUMMARY QUANTITY OF MATERIALS

COLUMNS

Item	Section	Material	Length	Weight/Len	Total Weight
-	-	-	m	ton/m	ton
1	C-30X50	RConcrete2	55.55	0.360	20.00
				TOTAL =	20.00

BEAMS

Item	Section	Material	Length	Weight/Len	Total Weight
-	-	-	m	ton/m	ton
1	VG-30X60	RConcrete2	250.36	0.432	108.16
2	VG-20X60	RConcrete2	199.65	0.288	57.50
				TOTAL =	165.65

FOUNDATION BEAMS

Item	Section	Material	Length	Weight/Len	Total Weight
-	-	-	m	ton/m	ton
1	VC-30X45	RConcrete2	213.95	0.324	69.32
				TOTAL =	69.32

SLABS

Item	Section	Material	Area	Weight/Area	Total Weight
-	-	-	m^2	ton/m^2	ton
1	Cubierta Plana	w =2.4	233.25	0.300	69.98
2	Cubierta Livianaw	=2.4	528.09	0.024	12.67
				TOTAL =	82.65