

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)
File: C:\IE REGIDOR\MOD6.rcb

Engineer: Name
9:45:38 a. m. 27/06/2025

MATERIALS

Number of materials = 3

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"

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-40X60	Rectang	40.00	60.00	-	-	-	-	2400.0	720000	320000	742400

Design Results - Columns (DMO)

Column	Story	L (m)	Lu (m)	Sec Mat	bxh (cm)	TRANSVERSE REINFORCEMENT		LONGITUDINAL REINFORCEMENT						
						TIES	XTIES	Sec	LdCmb critc	Pu (ton)	Mu2 (ton-m)	Mu3 (ton-m)	RHO -	As (cm2)
B-5	2	2.20	1.63	1	40x60	16 #3 @ 10 cm	2 (b)	Top	2	12.44	11.15	0.34	0.0100	24.00
				2		---	1 (h)	Bot	1	11.17	0.49	0.30	0.0100	24.00
B-5	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	23	41.58	9.97	8.71	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	31	29.32	9.12	12.11	0.0100	24.00
D-5	2	2.20	1.62	1	40x60	16 #3 @ 10 cm	2 (b)	Top	1	20.65	1.02	3.21	0.0100	24.00
				2		---	1 (h)	Bot	20	18.45	1.83	14.98	0.0100	24.00
D-5	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	21	43.57	1.45	10.11	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	22	43.42	9.54	9.12	0.0100	24.00
E-5	2	2.20	1.62	1	40x60	16 #3 @ 10 cm	2 (b)	Top	1	16.43	4.02	2.04	0.0100	24.00
				2		---	1 (h)	Bot	20	15.33	2.50	10.21	0.0100	24.00
E-5	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	26	21.56	11.21	5.54	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	34	11.91	12.97	0.44	0.0100	24.00
G-5	2	2.20	1.63	1	40x60	16 #3 @ 10 cm	2 (b)	Top	1	2.51	0.91	0.16	0.0100	24.00
				2		---	1 (h)	Bot	22	-0.81	2.55	4.13	0.0100	24.00
G-5	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	27	-4.63	9.11	3.52	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	27	-4.63	13.80	2.19	0.0100	24.00
B-3	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	22	14.36	17.12	15.49	0.0142	34.13
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	20	14.75	11.59	15.96	0.0125	29.91
E-3	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	21	14.96	3.50	8.47	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	14.96	5.27	12.21	0.0100	24.00
G-3	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	22	2.05	2.93	7.05	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	10.93	4.71	11.69	0.0100	24.00
B-2	2	2.20	1.63	1	40x60	16 #3 @ 10 cm	2 (b)	Top	21	10.01	7.76	4.65	0.0100	24.00
				2		---	1 (h)	Bot	23	9.80	6.65	19.36	0.0142	34.13
B-2	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	23	44.17	3.23	23.98	0.0136	32.72
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	45.07	6.94	21.47	0.0125	29.91
D-2	2	2.20	1.62	1	40x60	16 #3 @ 10 cm	2 (b)	Top	1	20.36	0.68	3.10	0.0100	24.00
				2		---	1 (h)	Bot	21	18.15	3.90	18.69	0.0119	28.50
D-2	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	23	59.75	1.99	20.72	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	59.65	4.57	18.87	0.0100	24.00

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Column	Story	L	Lu	Sec	bxh	TIES	XTIES	Sec	LdCmb	Pu	Mu2	Mu3	RHO	As
E-2	2	2.20	1.62	1	40x60	16 #3 @ 10 cm	2 (b)	Top	24	9.47	9.50	0.40	0.0100	24.00
				2		---	1 (h)	Bot	23	12.74	6.37	11.65	0.0100	24.00
E-2	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	21	33.71	3.49	12.17	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	33.71	5.81	13.19	0.0100	24.00
G-2	2	2.20	1.63	1	40x60	16 #3 @ 10 cm	2 (b)	Top	1	5.12	1.12	0.14	0.0100	24.00
				2		---	1 (h)	Bot	20	6.68	4.02	10.80	0.0100	24.00
G-2	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	21	3.91	4.29	9.83	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	3.91	6.26	11.63	0.0100	24.00
E-2'	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	20	10.04	2.09	7.79	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	10.24	9.71	8.47	0.0100	24.00
G-2'	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	21	-3.19	5.33	5.31	0.0100	24.00
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	21	-3.19	9.18	9.78	0.0100	24.00
B-1	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	22	34.86	9.78	21.75	0.0148	35.53
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	22	34.86	6.23	21.37	0.0130	31.31
D-1	1	4.00	3.48	1	40x60	7 #3 @ 10 cm (end)	2 (b)	Top	20	33.12	13.59	21.11	0.0154	36.94
				2		11 #3 @ 20 cm (ctr)	1 (h)	Bot	20	33.12	12.69	19.54	0.0136	32.72