

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.07 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	VG-30X60					
		Lu = 7.57 m	c = 0.25 m		h = 60.0 cm	Mat:	RConcrete2					
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82	
Mu(-), ton-m:	-9.63	-5.92	-3.02	-2.87	-2.87	-2.87	-2.87	-2.87	-5.54	-9.64	-14.36	
Mu(+), ton-m:	4.10	4.68	5.03	4.96	4.28	3.57	3.33	3.07	2.87	2.87	4.79	
As(-), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	7.33	
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	
Vu, ton:	5.52	5.29	4.50	3.70	2.90	3.31	4.11	4.90	5.70	6.49	6.72	
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	
Spacing, cm:	12.50	12.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	12.50	12.50	
DESIGN												
	F-7	11 #3 @ 12.5 18 #3 @ 27.5 11 #3 @ 12.5									I-	

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.43 m	a = 0.15 m	Section:	b = 30.0 cm	Sec:	VG-30X60				
		Lu = 8.13 m	c = 0.15 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.15	0.96	1.78	2.59	3.40	4.22	5.03	5.84	6.65	7.47	8.28
Mu(-), ton-m:	-10.98	-6.54	-2.73	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-4.19	-7.68
Mu(+), ton-m:	3.66	2.20	2.20	3.06	3.96	4.88	5.77	6.08	5.53	4.41	3.31
As(-), cm2:	5.55	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Vu, ton:	5.96	5.74	5.07	4.40	3.22	2.51	2.11	3.35	4.02	4.69	4.91
Tu, ton-m:	0.12	0.12	0.12	0.12	0.02	0.02	0.02	0.16	0.16	0.16	0.16
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.50	12.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	12.50	12.50
DESIGN											
	F-15	11 #3 @ 12.5									F-1
		20 #3 @ 27.5									
		11 #3 @ 12.5									

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.43 m	a = 0.15 m	Section:	b = 30.0 cm	Sec:	VG-30X60				
		Lu = 8.13 m	c = 0.15 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.15	0.96	1.78	2.59	3.40	4.22	5.03	5.84	6.65	7.47	8.28
Mu(-), ton-m:	-12.66	-7.50	-2.99	-2.53	-2.53	-2.53	-2.53	-2.53	-2.53	-4.38	-8.35
Mu(+), ton-m:	4.22	2.53	2.53	3.62	5.06	6.09	6.78	6.99	5.97	4.42	2.97
As(-), cm ² :	6.43	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
As(+), cm ² :	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Vu, ton:	6.97	6.75	6.10	5.45	3.49	2.80	2.20	4.14	4.79	5.45	5.66
Tu, ton-m:	0.20	0.20	0.20	0.20	0.02	0.02	0.02	0.25	0.25	0.25	0.25
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.50	12.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	12.50	12.50
DESIGN	I-15	11 #3 @ 12.5 20 #3 @ 27.5 11 #3 @ 12.5								I-15	

Engineer: Name
9:15:34 a. m. 27/06/2025

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.43 m	a = 0.15 m	Section:	b = 20.0 cm	Sec:	VG-20X60				
		Lu = 8.13 m	c = 0.15 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.15	0.96	1.78	2.59	3.40	4.22	5.03	5.84	6.65	7.47	8.28
Mu(-), ton-m:	-6.85	-3.31	-0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.23
Mu(+), ton-m:	0.00	0.00	0.21	2.09	3.70	4.66	5.05	4.80	3.81	2.24	0.36
As(-), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
As(+), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
Vu, ton:	4.24	4.01	3.32	2.63	1.52	0.83	0.14	0.88	1.57	2.26	2.49
Tu, ton-m:	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50
DESIGN											
	A'-15	31 #3 @ 27.5									A'-1

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.43 m	a = 0.15 m	Section:	b = 30.0 cm	Sec:	VC-30X45				
		Lu = 8.13 m	c = 0.15 m		h = 45.0 cm	Mat:	RConcrete2				
X, m:	0.15	0.96	1.78	2.59	3.40	4.22	5.03	5.84	6.65	7.47	8.28
Mu(-), ton-m:	-2.29	-1.08	-0.18	0.00	0.00	0.00	0.00	0.00	-0.18	-1.08	-2.29
Mu(+), ton-m:	0.00	0.00	0.06	0.57	0.99	1.13	0.99	0.57	0.06	0.00	0.00
As(-), cm2:	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
As(+), cm2:	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Vu, ton:	1.51	1.34	1.00	0.67	0.33	0.00	0.33	0.67	1.00	1.34	1.51
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	9.00	9.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	9.00	9.00
DESIGN											
	I-15	11 #3 @ 9 32 #3 @ 19 11 #3 @ 9									I-15

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.43 m	a = 0.15 m	Section:	b = 30.0 cm	Sec:	VC-30X45				
		Lu = 8.13 m	c = 0.15 m		h = 45.0 cm	Mat:	RConcrete2				
X, m:	0.15	0.96	1.78	2.59	3.40	4.22	5.03	5.84	6.65	7.47	8.28
Mu(-), ton-m:	-2.29	-1.08	-0.18	0.00	0.00	0.00	0.00	0.00	-0.18	-1.08	-2.29
Mu(+), ton-m:	0.00	0.00	0.06	0.57	0.99	1.13	0.99	0.57	0.06	0.00	0.00
As(-), cm2:	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
As(+), cm2:	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Vu, ton:	1.51	1.34	1.00	0.67	0.33	0.00	0.33	0.67	1.00	1.34	1.51
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	9.00	9.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	9.00	9.00
DESIGN											
	F-14			11 #3 @ 9	32 #3 @ 19	11 #3 @ 9					F-14

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.07 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	VC-30X45					
		Lu = 7.57 m	c = 0.25 m		h = 45.0 cm	Mat:	RConcrete2					
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82	
Mu(-), ton-m:	-2.00	-0.95	-0.20	0.00	0.00	0.00	0.00	0.00	-0.20	-0.95	-2.00	
Mu(+), ton-m:	0.00	0.00	0.08	0.48	0.85	0.98	0.85	0.48	0.08	0.00	0.00	
As(-), cm2:	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	
As(+), cm2:	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	
Vu, ton:	1.40	1.25	0.93	0.62	0.31	0.00	0.31	0.62	0.93	1.25	1.40	
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	
Spacing, cm:	9.00	9.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	9.00	9.00	
DESIGN		-----										

	F-14	11 #3 @ 9 29 #3 @ 19 11 #3 @ 9									I-14	

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 1.31 m	a = 0.00 m	Section:	b = 20.0 cm	Sec:	VG-20X60				
		Lu = 1.16 m	c = 0.15 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	-0.09
Mu(+), ton-m:	0.05	0.09	0.11	0.12	0.12	0.11	0.09	0.07	0.03	0.00	0.00
As(-), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
As(+), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
Vu, ton:	0.33	0.24	0.15	0.06	0.03	0.12	0.15	0.15	0.15	0.15	0.15
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50
DESIGN											
	A'-1'	5 #3 @ 27.5									E-1'

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 1.31 m	a = 0.00 m	Section:	b = 30.0 cm	Sec:	VG-30X60				
		Lu = 1.06 m	c = 0.25 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.11	0.21	0.32	0.42	0.53	0.64	0.74	0.85	0.95	1.06
Mu(-), ton-m:	-0.01	-0.98	-1.97	-2.96	-3.96	-4.97	-6.00	-7.04	-8.08	-9.14	-10.20
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Vu, ton:	9.11	9.21	9.31	9.41	9.51	9.61	9.61	9.61	9.61	9.61	9.61
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50
DESIGN											
	A'-11										F-1
						5 #3 @ 27.5					

Company: Company

Engineer: Name

Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 4)

9:15:34 a. m. 27/06/2025

BEAM: 11 (F-I) FLOOR: 2

	Length:	L = 8.07 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	VG-30X60						
		Lu = 7.57 m	c = 0.25 m		h = 60.0 cm	Mat:	RConcrete2						
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82		
Mu(-), ton-m:	-12.02	-7.01	-3.87	-3.87	-3.87	-3.87	-3.87	-3.87	-7.31	-12.86	-19.36		
Mu(+), ton-m:	4.01	3.87	4.10	4.84	4.71	4.45	3.87	3.87	3.87	3.87	6.45		
As(-), cm2:	6.09	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	6.53	10.03		
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42		
Vu, ton:	7.74	7.39	6.16	4.94	3.72	4.36	5.58	6.80	8.03	9.25	9.60		
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3		
Spacing, cm:	12.50	12.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	12.50	12.50		
DESIGN													
	F-11	11 #3 @ 12.5									18 #3 @ 27.5	11 #3 @ 12.5	I-11

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 8.07 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	VG-30X60				
		Lu = 7.57 m	c = 0.25 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-11.24	-6.32	-3.62	-3.62	-3.62	-3.62	-3.62	-3.62	-6.39	-11.78	-18.11
Mu(+), ton-m:	3.75	3.62	4.03	4.96	5.16	4.98	3.62	3.62	3.62	3.62	6.04
As(-), cm2:	5.68	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.96	9.35
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Vu, ton:	7.57	7.22	6.00	4.78	3.56	4.08	5.30	6.52	7.74	8.97	9.32
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.50	12.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	12.50	12.50
DESIGN											
	F-14			11 #3 @ 12.5	18 #3 @ 27.5	11 #3 @ 12.5					I-14

Engineer: Name
9:15:34 a. m. 27/06/2025

	Length:	L = 1.31 m	a = 0.00 m	Section:	b = 20.0 cm	Sec:	VG-20X60				
		Lu = 1.16 m	c = 0.15 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mu(+), ton-m:	0.00	0.04	0.08	0.11	0.13	0.14	0.15	0.14	0.12	0.09	0.04
As(-), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
As(+), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
Vu, ton:	0.50	0.41	0.32	0.23	0.14	0.05	0.02	0.02	0.02	0.02	0.02
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50
DESIGN											
	A'-6'					5 #3 @ 27.5					F-6'

Engineer: Name
9:15:35 a. m. 27/06/2025

	Length:	L = 2.02 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	VG-30X60					
		Lu = 1.77 m	c = 0.00 m		h = 60.0 cm	Mat:	RConcrete2					
X, m:	0.25	0.43	0.60	0.78	0.96	1.14	1.31	1.49	1.67	1.84	2.02	
Mu(-), ton-m:	-22.79	-20.24	-17.76	-15.34	-12.98	-10.67	-8.42	-6.23	-4.08	-2.00	0.00	
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
As(-), cm2:	11.94	10.52	9.16	7.85	6.60	5.42	5.42	5.42	5.42	5.42	5.42	
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	
Vu, ton:	13.51	13.51	13.51	13.51	13.21	12.89	12.57	12.24	11.92	11.60	11.28	
Tu, ton-m:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	
DESIGN		-----										

	I-15	8 #3 @ 27.5										D'-15

Engineer: Name
9:15:35 a. m. 27/06/2025

	Length:	L = 2.02 m	a = 0.15 m	Section:	b = 20.0 cm	Sec:	VG-20X60				
		Lu = 1.87 m	c = 0.00 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.15	0.34	0.52	0.71	0.90	1.09	1.27	1.46	1.65	1.83	2.02
Mu(-), ton-m:	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mu(+), ton-m:	0.07	0.27	0.47	0.61	0.70	0.74	0.71	0.63	0.49	0.30	0.05
As(-), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
As(+), cm2:	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
Vu, ton:	0.66	0.66	0.66	0.63	0.32	0.04	0.29	0.60	0.90	1.21	1.52
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50
DESIGN	I-8'	8 #3 @ 27.5									D'-8'

Engineer: Name
9:15:35 a. m. 27/06/2025

	Length:	L = 2.02 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	VG-30X60				
		Lu = 1.77 m	c = 0.00 m		h = 60.0 cm	Mat:	RConcrete2				
X, m:	0.25	0.43	0.60	0.78	0.96	1.14	1.31	1.49	1.67	1.84	2.02
Mu(-), ton-m:	-8.70	-7.67	-6.67	-5.72	-4.81	-3.93	-3.08	-2.27	-1.50	-0.76	-0.06
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
As(+), cm2:	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Vu, ton:	5.28	5.28	5.28	5.28	5.08	4.88	4.67	4.47	4.26	4.05	3.85
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50
DESIGN											
	I-16					8 #3 @ 27.5					D'-16