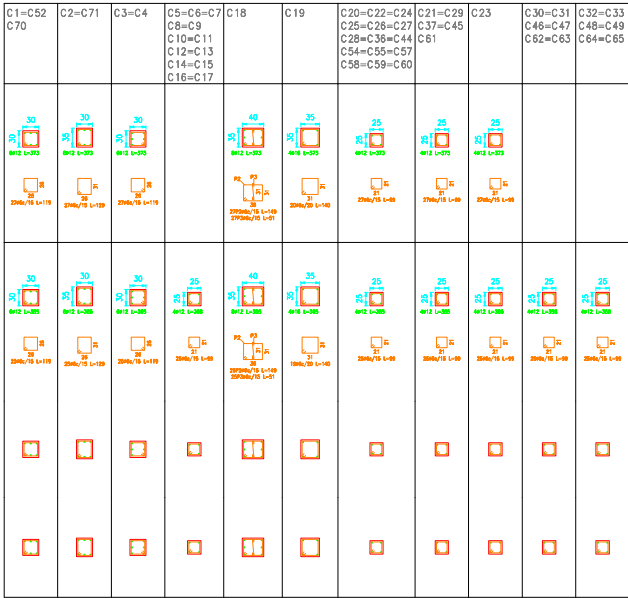
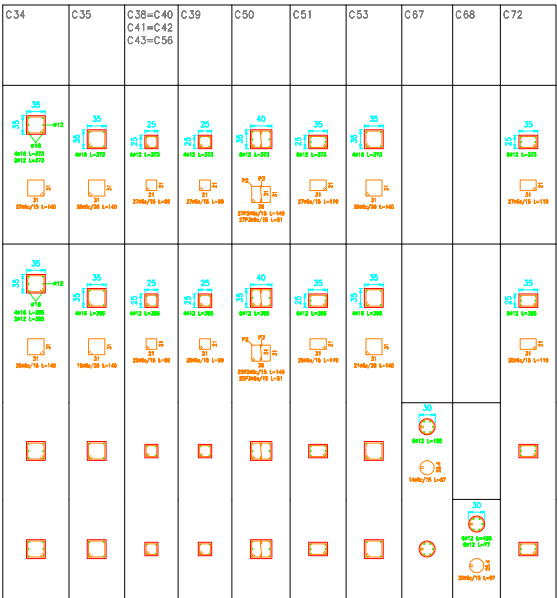


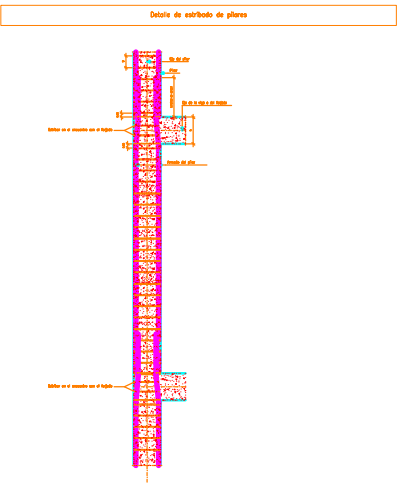


Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50

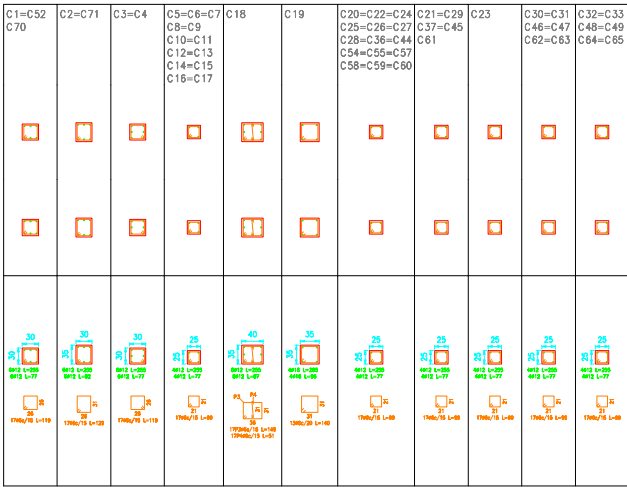
Resumen Acero	Long. total	Peso+10%	Total
Ferrosos 1 a 7	(m)	(kg)	
Pilares			
AH-400CN #6	4401.8	1076	
#12	2767.9	2723	
#16	186.1	327	
#20	24.4	66	4191



Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50

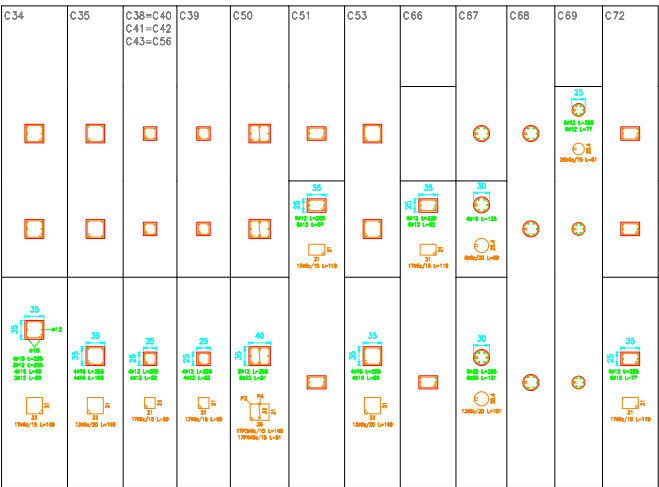


Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50

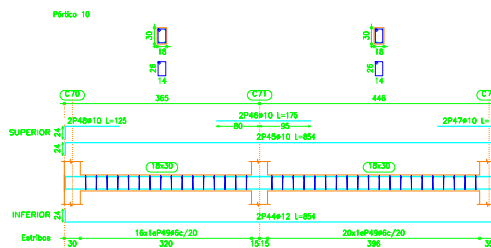
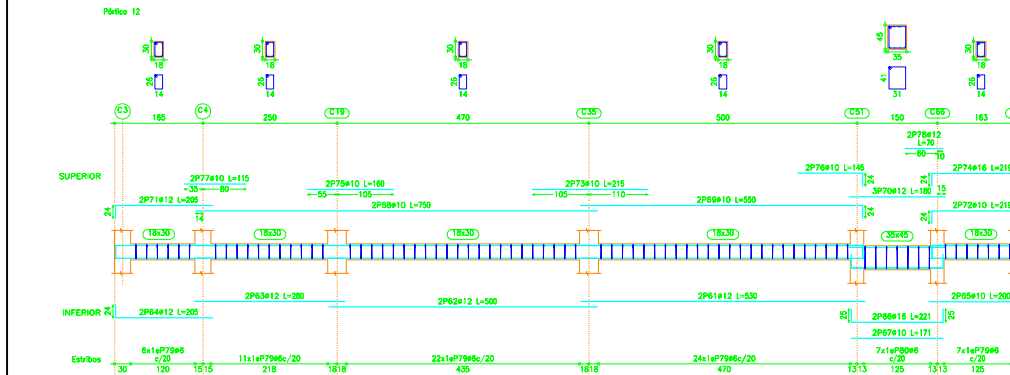
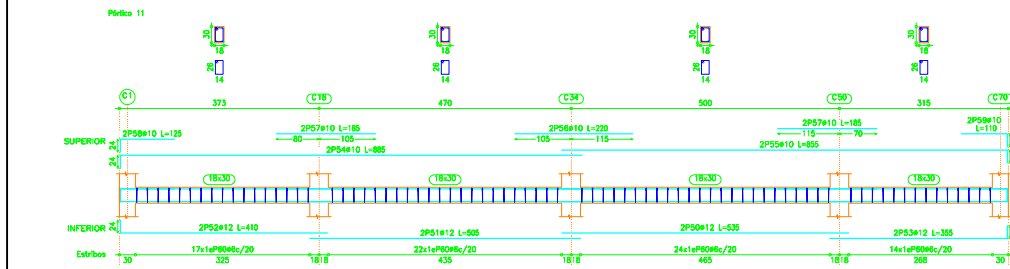
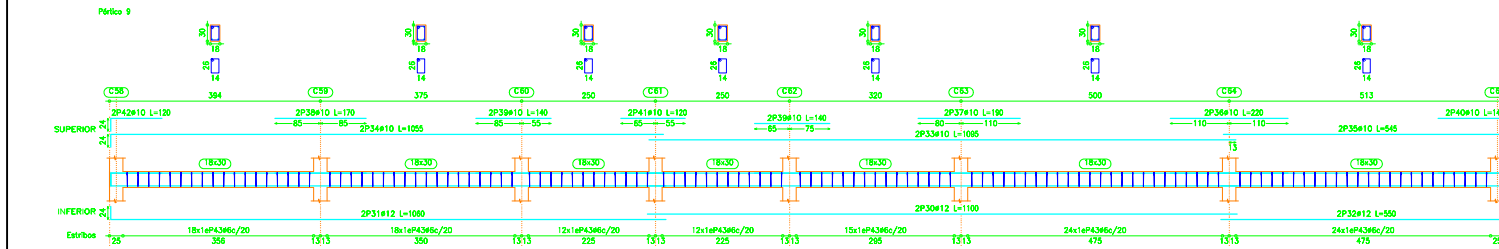
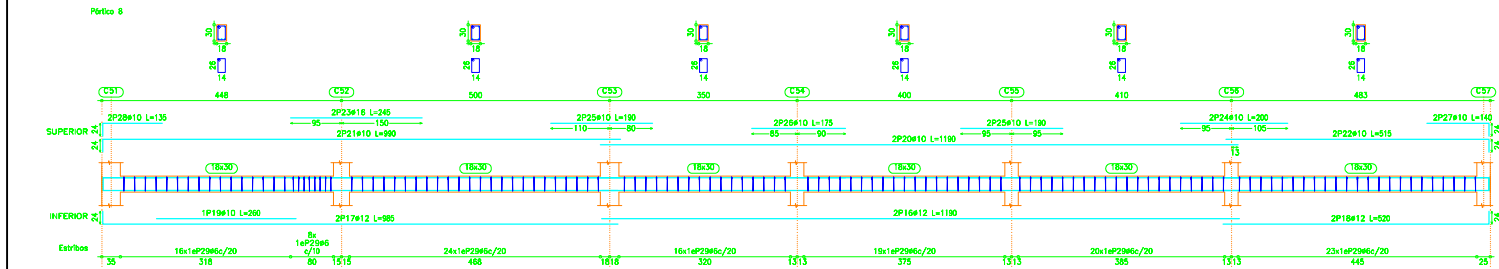
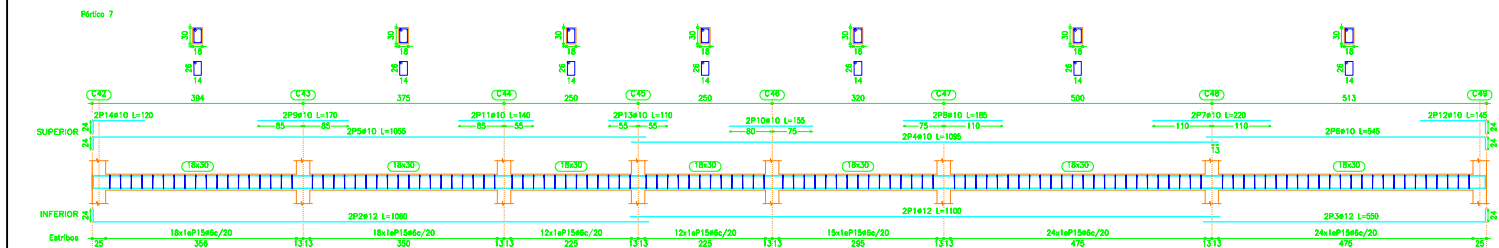


Resumen Acero	Long. total	Peso+10%	Total
Ferrosos 1 a 7	(m)	(kg)	
Pilares			
AH-400CN #6	4401.8	1076	
#12	2767.9	2723	
#16	186.1	327	
#20	24.4	66	4191

Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50

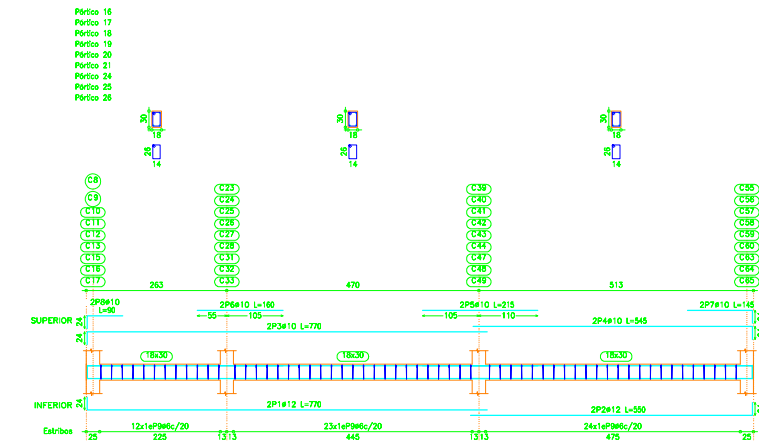


Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50



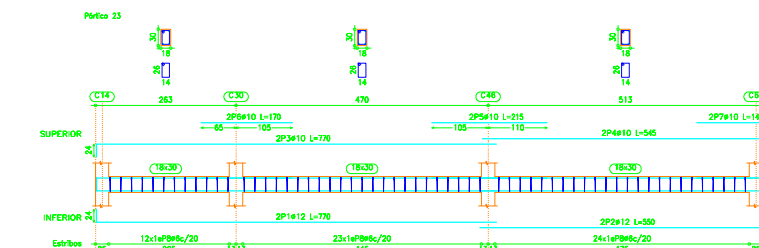
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)	AN-400CH
Pórtico I	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1
Pórtico II	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1
Pórtico III	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1
Pórtico IV	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1

Cimentos
Desplazamiento de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



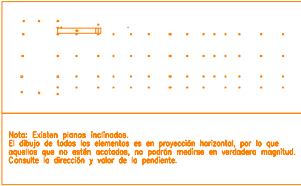
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)	AN-400CH
Pórtico 15	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1
Pórtico 16	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1

Cimentos
Desplazamiento de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)	AN-400CH
Pórtico 23	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1
Pórtico 24	1	18	1	110	1.1	1.1
	2	18	1	110	1.1	1.1
	3	18	1	110	1.1	1.1
	4	18	1	110	1.1	1.1
	5	18	1	110	1.1	1.1
	6	18	1	110	1.1	1.1
	7	18	1	110	1.1	1.1
	8	18	1	110	1.1	1.1
	9	18	1	110	1.1	1.1
	10	18	1	110	1.1	1.1

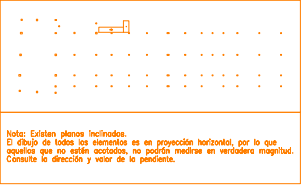
Cimentos
Desplazamiento de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



Elemento	Pos.	Díam.	No.	Long. (cm)	Total AH-400CN (cm)	(kg)
Pórtico 1	1	#10	2	139	278	1.7
	2	#10	2	125	250	1.5
	3	#6	12	76	912	2.0
Total+10%:						5.7
Pórtico 2	4	#12	2	201	402	3.9
	5	#12	2	151	302	2.7
	6	#10	2	201	402	2.5
	7	#16	3	201	603	8.5
Pórtico 3	8	#6	6	146	876	1.9
	9	#10	2	146	292	1.8
	10	#10	2	144	288	1.8
	11	#6	12	76	912	2.0
Total+10%:						22.7
#6:						6.5
#10:						10.5
#12:						6.9
#16:						10.4
Total:						34.1

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
descanso 1 Vigas			
AH-400CN #6	27.0	7	
#10	15.1	10	
#12	7.0	7	
#16	6.0	10	34

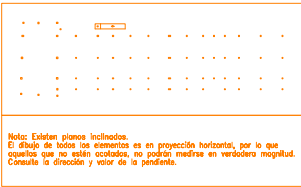
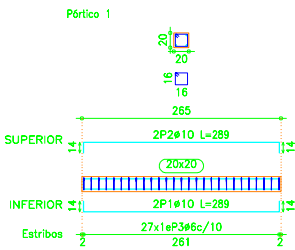
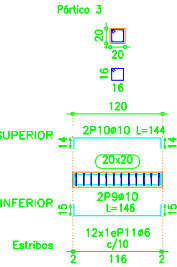
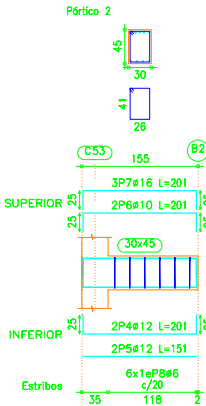
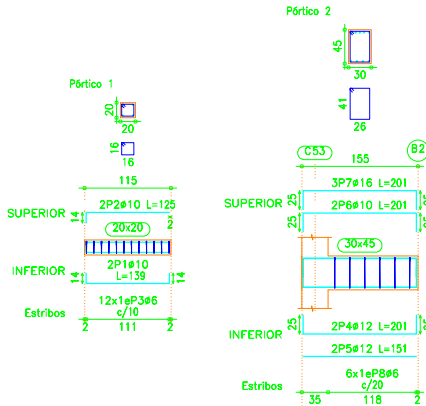
descanso 1
Desplce de vigas
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50



Elemento	Pos.	Díam.	No.	Long. (cm)	Total AH-400CN (cm)	(kg)
Pórtico 1	1	#10	2	289	578	3.6
	2	#10	2	289	578	3.6
	3	#6	27	76	2052	4.6
Total+10%:						13.0
#6:						5.1
#10:						7.9
Total:						13.0

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
descanso 2 Vigas			
AH-400CN #6	20.5	5	
#10	11.6	8	13

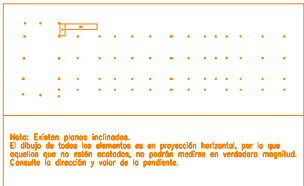
descanso 2
Desplce de vigas
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50



Elemento	Pos.	Díam.	No.	Long. (cm)	Total AH-400CN (cm)	(kg)
Pórtico 1-Pórtico 2	1	#10	2	144	288	1.8
	2	#10	2	144	288	1.8
	3	#6	12	76	912	2.0
Total+10%:						6.2
#6:						4.4
#10:						12.4
Total:						12.4

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
descanso 3 Vigas			
AH-400CN #6	18.2	4	
#10	11.5	8	12

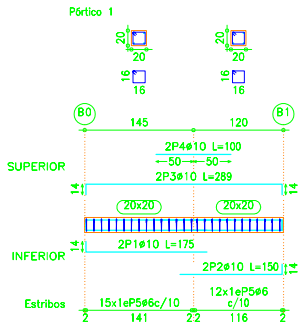
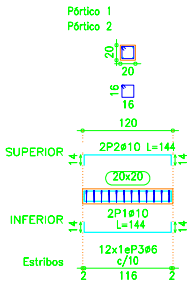
descanso 3
Desplce de vigas
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50



Elemento	Pos.	Díam.	No.	Long (cm)	Total (cm)	AH-400CN (kg)
Pórtico 1	1	#10	2	175	350	2.2
	2	#10	2	150	300	1.8
	3	#10	2	289	578	3.6
	4	#10	2	100	200	1.2
	5	#6	27	76	2052	4.6
Total+10%:					14.7	
#6:					5.0	
#10:					9.7	
Total:					14.7	

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
descanso 4 Vigas			
AH-400CN #6	20.5	5	
#10	14.3	10	15

descanso 4
Desplce de vigas
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal
Escala: 1:50



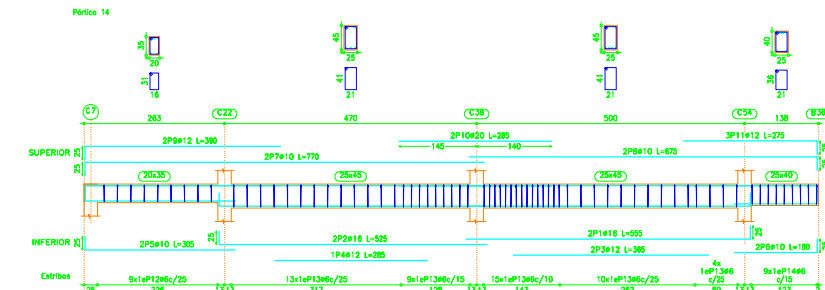
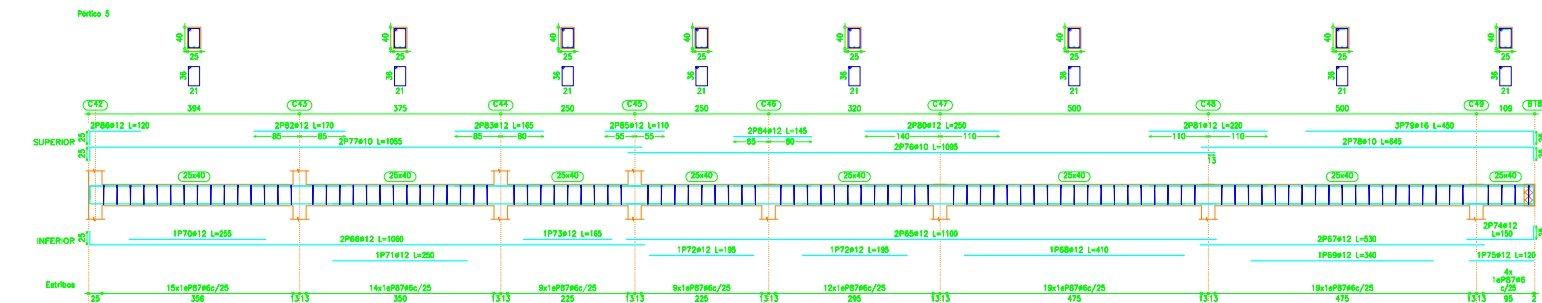
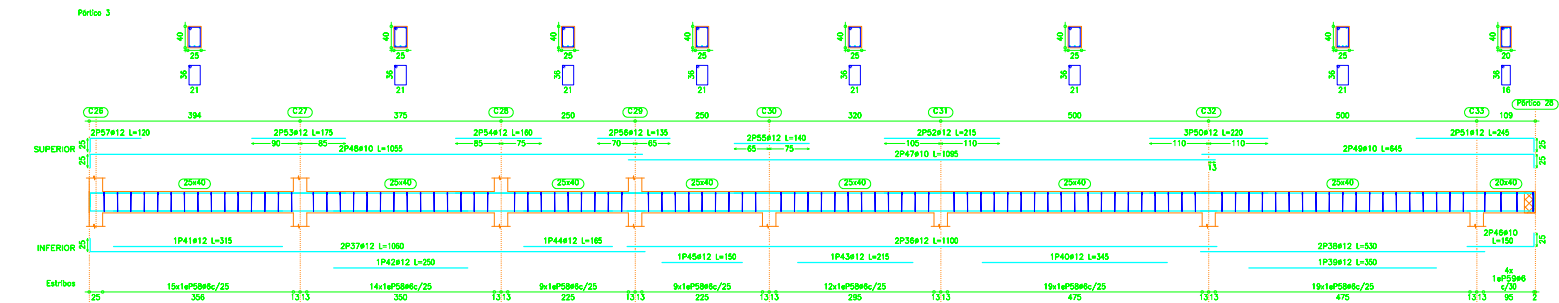
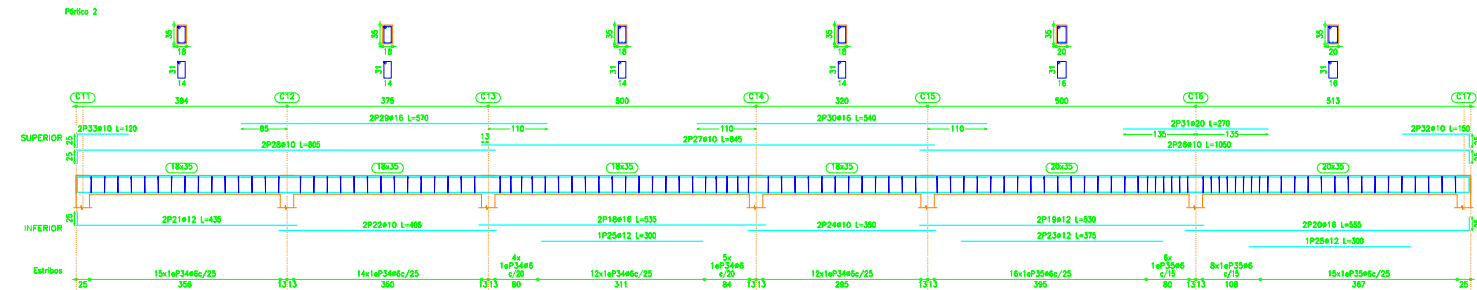
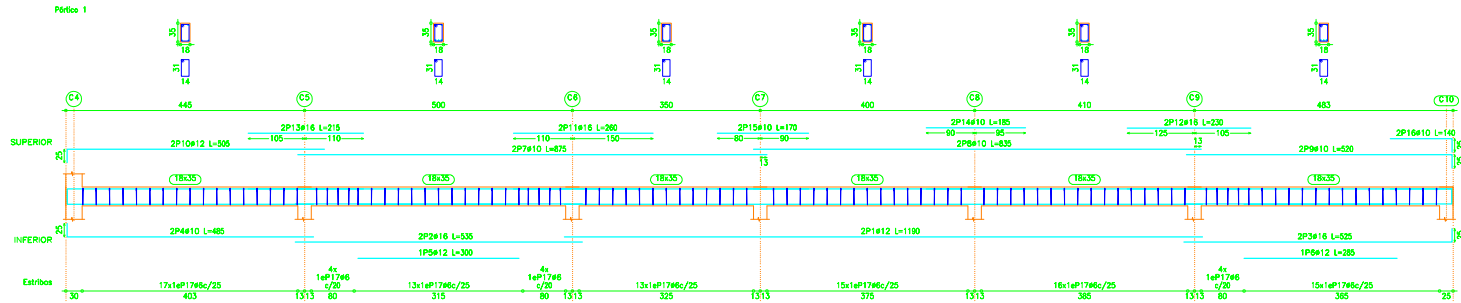
PROYECTO:
DISEÑO ESTRUCTURAL CENTRO DE SALUD DISTRITO 4 BERMEJO

CONCEPTO:
RAMPA

ESTUDIANTE:
HUGO FERNANDO NEIVES FERNANDEZ

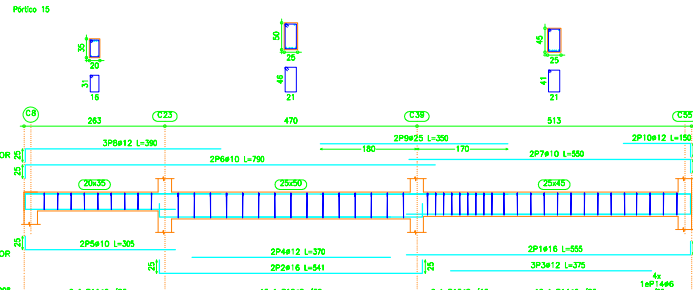
Vo Bo:

PLANO:
5/17



Elemento	Pos.	Dím.	No.	Long. (cm)	Total (kg)
Reinforcement	1	10	10	100	100
Reinforcement	2	10	10	100	100
Reinforcement	3	10	10	100	100
Reinforcement	4	10	10	100	100
Reinforcement	5	10	10	100	100
Reinforcement	6	10	10	100	100
Reinforcement	7	10	10	100	100
Reinforcement	8	10	10	100	100
Reinforcement	9	10	10	100	100
Reinforcement	10	10	10	100	100

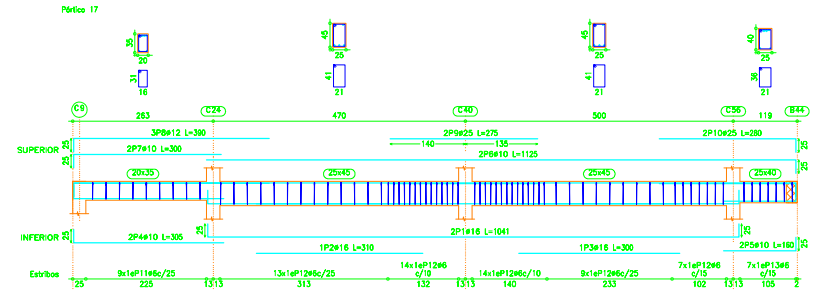
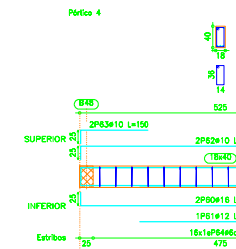
Nota: Desplaza de vigas
Herrajes: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



Elemento	Pos.	Dím.	No.	Long. (cm)	Total (kg)
Reinforcement	1	10	10	100	100
Reinforcement	2	10	10	100	100
Reinforcement	3	10	10	100	100
Reinforcement	4	10	10	100	100
Reinforcement	5	10	10	100	100
Reinforcement	6	10	10	100	100
Reinforcement	7	10	10	100	100
Reinforcement	8	10	10	100	100
Reinforcement	9	10	10	100	100
Reinforcement	10	10	10	100	100

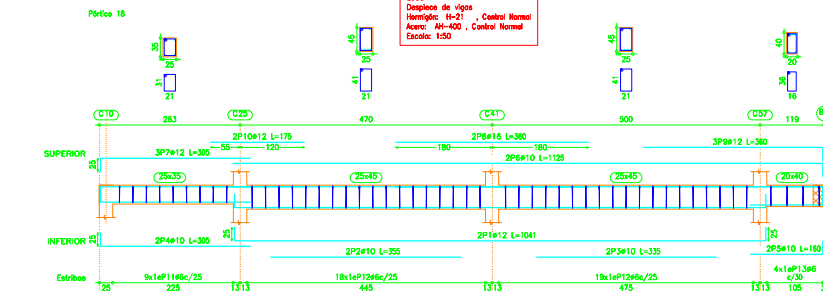
Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
Reinforcement	2596.9	634	2596.9
Reinforcement	60.7	26	60.7
Reinforcement	1272.2	683	1272.2
Reinforcement	1487.3	1453	1487.3
Reinforcement	417.2	724	417.2
Reinforcement	89.2	186	89.2
Reinforcement	18.1	77	18.1

Nota: Desplaza de vigas
Herrajes: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



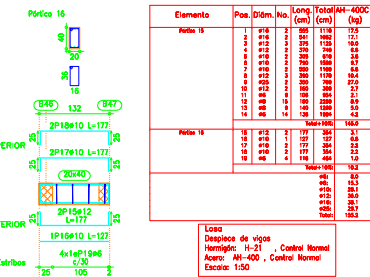
Elemento	Pos.	Dím.	No.	Long. (cm)	Total (kg)
Reinforcement	1	10	10	100	100
Reinforcement	2	10	10	100	100
Reinforcement	3	10	10	100	100
Reinforcement	4	10	10	100	100
Reinforcement	5	10	10	100	100
Reinforcement	6	10	10	100	100
Reinforcement	7	10	10	100	100
Reinforcement	8	10	10	100	100
Reinforcement	9	10	10	100	100
Reinforcement	10	10	10	100	100

Nota: Desplaza de vigas
Herrajes: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



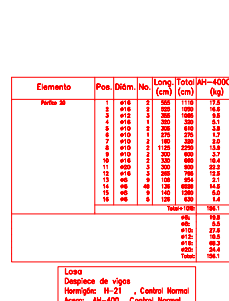
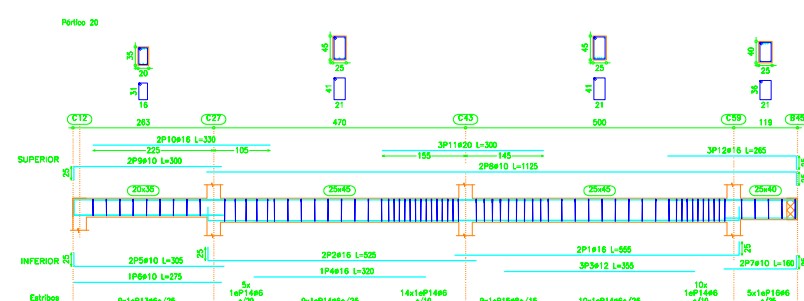
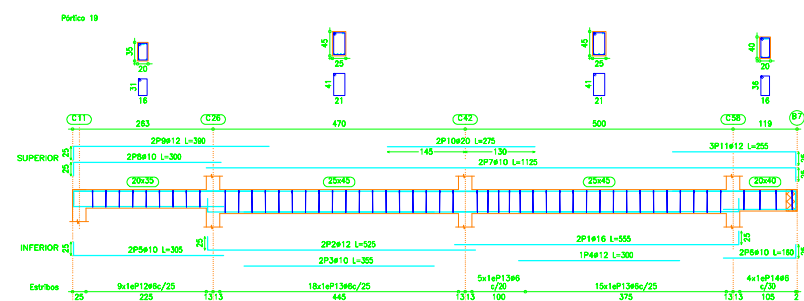
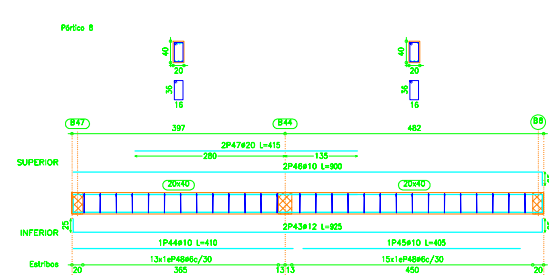
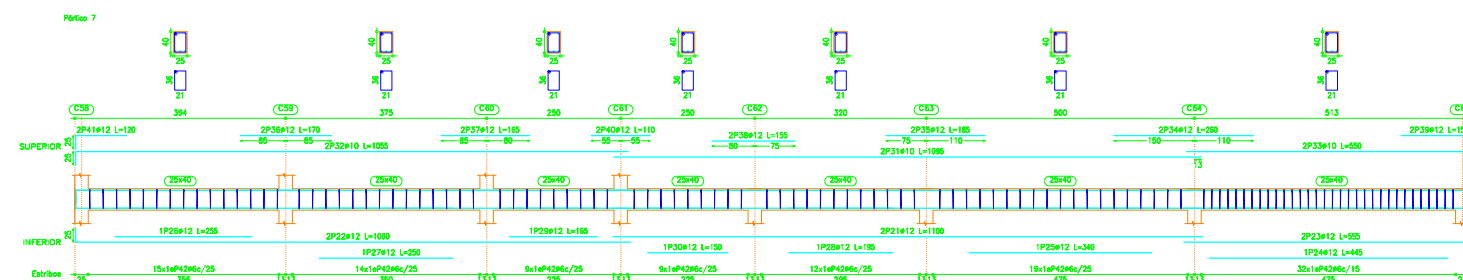
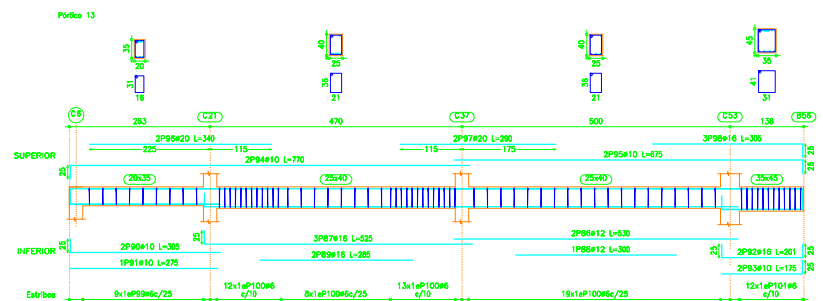
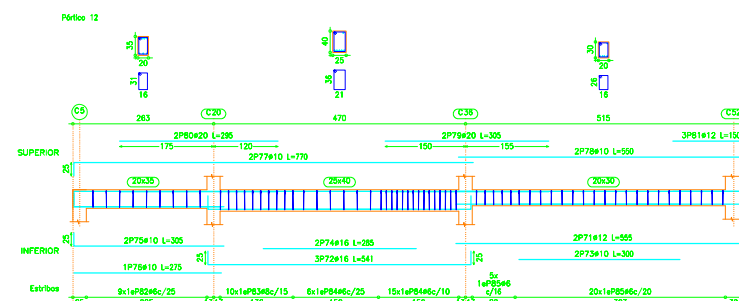
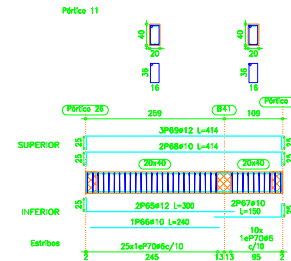
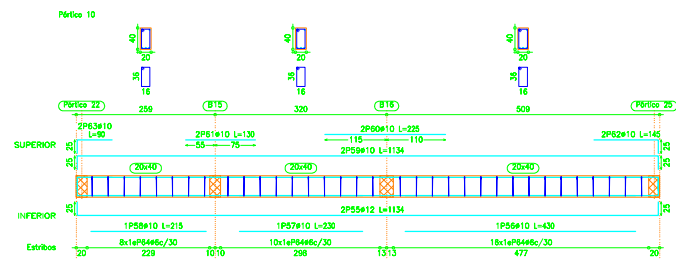
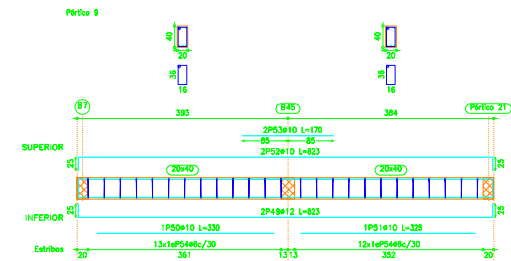
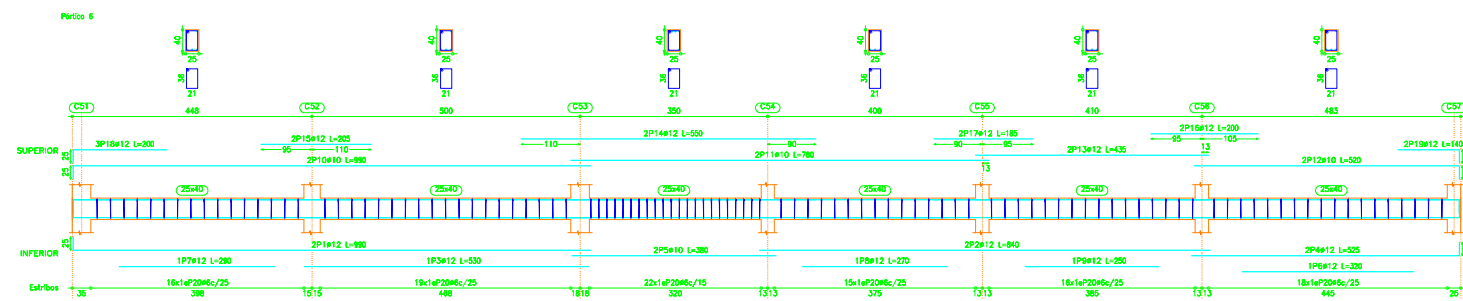
Elemento	Pos.	Dím.	No.	Long. (cm)	Total (kg)
Reinforcement	1	10	10	100	100
Reinforcement	2	10	10	100	100
Reinforcement	3	10	10	100	100
Reinforcement	4	10	10	100	100
Reinforcement	5	10	10	100	100
Reinforcement	6	10	10	100	100
Reinforcement	7	10	10	100	100
Reinforcement	8	10	10	100	100
Reinforcement	9	10	10	100	100
Reinforcement	10	10	10	100	100

Nota: Desplaza de vigas
Herrajes: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50

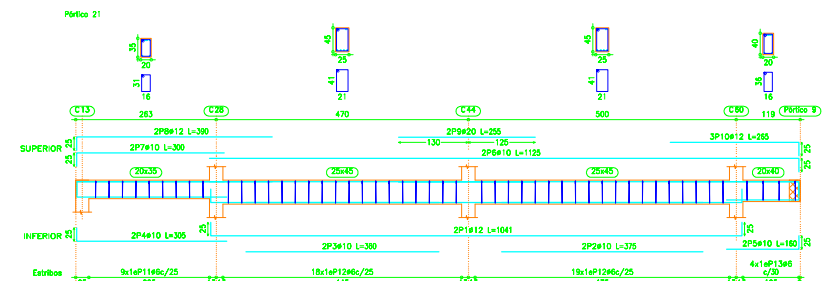


Elemento	Pos.	Dím.	No.	Long. (cm)	Total (kg)
Reinforcement	1	10	10	100	100
Reinforcement	2	10	10	100	100
Reinforcement	3	10	10	100	100
Reinforcement	4	10	10	100	100
Reinforcement	5	10	10	100	100
Reinforcement	6	10	10	100	100
Reinforcement	7	10	10	100	100
Reinforcement	8	10	10	100	100
Reinforcement	9	10	10	100	100
Reinforcement	10	10	10	100	100

Nota: Desplaza de vigas
Herrajes: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50

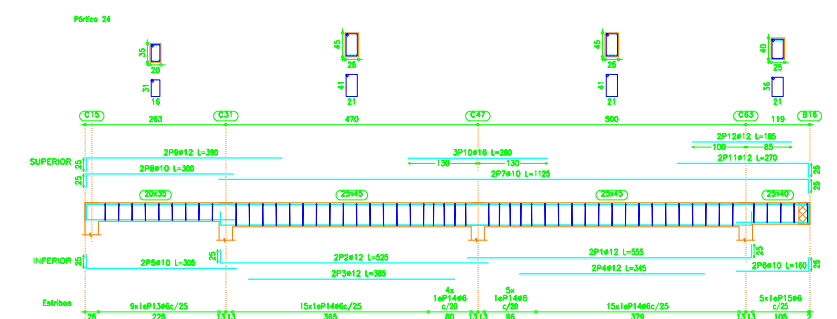


Elemento	Pos. Diam. (mm)	Vel. (m/s)	Long. (m)	Vol. (m³)	Alt. (m)	AN-400 (kg)
Perfor 6	1	0.012	2	0.000	180	1.8
	2	0.012	2	0.000	180	1.9
	3	0.012	2	0.000	180	2.0
	4	0.012	2	0.000	180	2.1
	5	0.012	2	0.000	180	2.2
	6	0.012	2	0.000	180	2.3
	7	0.012	2	0.000	180	2.4
	8	0.012	2	0.000	180	2.5
	9	0.012	2	0.000	180	2.6
	10	0.012	2	0.000	180	2.7
Perfor 7	11	0.012	2	0.000	180	2.8
	12	0.012	2	0.000	180	2.9
	13	0.012	2	0.000	180	3.0
	14	0.012	2	0.000	180	3.1
	15	0.012	2	0.000	180	3.2
	16	0.012	2	0.000	180	3.3
	17	0.012	2	0.000	180	3.4
	18	0.012	2	0.000	180	3.5
	19	0.012	2	0.000	180	3.6
	20	0.012	2	0.000	180	3.7
Perfor 8	21	0.012	2	0.000	180	3.8
	22	0.012	2	0.000	180	3.9
	23	0.012	2	0.000	180	4.0
	24	0.012	2	0.000	180	4.1
	25	0.012	2	0.000	180	4.2
	26	0.012	2	0.000	180	4.3
	27	0.012	2	0.000	180	4.4
	28	0.012	2	0.000	180	4.5
	29	0.012	2	0.000	180	4.6
	30	0.012	2	0.000	180	4.7
Perfor 9	31	0.012	2	0.000	180	4.8
	32	0.012	2	0.000	180	4.9
	33	0.012	2	0.000	180	5.0
	34	0.012	2	0.000	180	5.1
	35	0.012	2	0.000	180	5.2
	36	0.012	2	0.000	180	5.3
	37	0.012	2	0.000	180	5.4
	38	0.012	2	0.000	180	5.5
	39	0.012	2	0.000	180	5.6
	40	0.012	2	0.000	180	5.7
Perfor 10	41	0.012	2	0.000	180	5.8
	42	0.012	2	0.000	180	5.9
	43	0.012	2	0.000	180	6.0
	44	0.012	2	0.000	180	6.1
	45	0.012	2	0.000	180	6.2
	46	0.012	2	0.000	180	6.3
	47	0.012	2	0.000	180	6.4
	48	0.012	2	0.000	180	6.5
	49	0.012	2	0.000	180	6.6
	50	0.012	2	0.000	180	6.7
Perfor 11	51	0.012	2	0.000	180	6.8
	52	0.012	2	0.000	180	6.9
	53	0.012	2	0.000	180	7.0
	54	0.012	2	0.000	180	7.1
	55	0.012	2	0.000	180	7.2
	56	0.012	2	0.000	180	7.3
	57	0.012	2	0.000	180	7.4
	58	0.012	2	0.000	180	7.5
	59	0.012	2	0.000	180	7.6
	60	0.012	2	0.000	180	7.7
Perfor 12	61	0.012	2	0.000	180	7.8
	62	0.012	2	0.000	180	7.9
	63	0.012	2	0.000	180	8.0
	64	0.012	2	0.000	180	8.1
	65	0.012	2	0.000	180	8.2
	66	0.012	2	0.000	180	8.3
	67	0.012	2	0.000	180	8.4
	68	0.012	2	0.000	180	8.5
	69	0.012	2	0.000	180	8.6
	70	0.012	2	0.000	180	8.7
Perfor 13	71	0.012	2	0.000	180	8.8
	72	0.012	2	0.000	180	8.9
	73	0.012	2	0.000	180	9.0
	74	0.012	2	0.000	180	9.1
	75	0.012	2	0.000	180	9.2
	76	0.012	2	0.000	180	9.3
	77	0.012	2	0.000	180	9.4
	78	0.012	2	0.000	180	9.5
	79	0.012	2	0.000	180	9.6
	80	0.012	2	0.000	180	9.7
Perfor 14	81	0.012	2	0.000	180	9.8
	82	0.012	2	0.000	180	9.9
	83	0.012	2	0.000	180	10.0
	84	0.012	2	0.000	180	10.1
	85	0.012	2	0.000	180	10.2
	86	0.012	2	0.000	180	10.3
	87	0.012	2	0.000	180	10.4
	88	0.012	2	0.000	180	10.5
	89	0.012	2	0.000	180	10.6
	90	0.012	2	0.000	180	10.7
Perfor 15	91	0.012	2	0.000	180	10.8
	92	0.012	2	0.000	180	10.9
	93	0.012	2	0.000	180	11.0
	94	0.012	2	0.000	180	11.1
	95	0.012	2	0.000	180	11.2
	96	0.012	2	0.000	180	11.3
	97	0.012	2	0.000	180	11.4
	98	0.012	2	0.000	180	11.5
	99	0.012	2	0.000	180	11.6
	100	0.012	2	0.000	180	11.7
Perfor 16	101	0.012	2	0.000	180	11.8
	102	0.012	2	0.000	180	11.9
	103	0.012	2	0.000	180	12.0
	104	0.012	2	0.000	180	12.1
	105	0.012	2	0.000	180	12.2
	106	0.012	2	0.000	180	12.3
	107	0.012	2	0.000	180	12.4
	108	0.012	2	0.000	180	12.5
	109	0.012	2	0.000	180	12.6
	110	0.012	2	0.000	180	12.7
Perfor 17	111	0.012	2	0.000	180	12.8
	112	0.012	2	0.000	180	12.9
	113	0.012	2	0.000	180	13.0
	114	0.012	2	0.000	180	13.1
	115	0.012	2	0.000	180	13.2
	116	0.012	2	0.000	180	13.3
	117	0.012	2	0.000	180	13.4
	118	0.012	2	0.000	180	13.5
	119	0.012	2	0.000	180	13.6
	120	0.012	2	0.000	180	13.7
Perfor 18	121	0.012	2	0.000	180	13.8
	122	0.012	2	0.000	180	13.9
	123	0.012	2	0.000	180	14.0
	124	0.012	2	0.000	180	14.1
	125	0.012	2	0.000	180	14.2
	126	0.012	2	0.000	180	14.3
	127	0.012	2	0.000	180	14.4
	128	0.012	2	0.000	180	14.5
	129	0.012	2	0.000	180	14.6
	130	0.012	2	0.000	180	14.7
Perfor 19	131	0.012	2	0.000	180	14.8
	132	0.012	2	0.000	180	14.9
	133	0.012	2	0.000	180	15.0
	134	0.012	2	0.000	180	15.1
	135	0.012	2	0.000	180	15.2
	136	0.012	2	0.000	180	15.3
	137	0.012	2	0.000	180	15.4
	138	0.012	2	0.000	180	15.5
	139	0.012	2	0.000	180	15.6
	140	0.012	2	0.000	180	15.7
Perfor 20	141	0.012	2	0.000	180	15.8
	142	0.012	2	0.000	180	15.9
	143	0.012	2	0.000	180	16.0
	144	0.012	2	0.000	180	16.1
	145	0.012	2	0.000	180	16.2
	146	0.012	2	0.000	180	16.3
	147	0.012	2	0.000	180	16.4
	148	0.012	2	0.000	180	16.5
	149	0.012	2	0.000	180	16.6
	150	0.012	2	0.000	180	16.7
Perfor 21	151	0.012	2	0.000	180	16.8
	152	0.012	2	0.000	180	16.9
	153	0.012	2	0.000	180	17.0
	154	0.012	2	0.000	180	17.1
	155	0.012	2	0.000	180	17.2
	156	0.012	2	0.000	180	17.3
	157	0.012	2	0.000	180	17.4
	158	0.012	2	0.000	180	17.5
	159	0.012	2	0.000	180	17.6
	160	0.012	2	0.000	180	17.7
Perfor 22	161	0.012	2	0.000	180	17.8
	162	0.012	2	0.000	180	17.9
	163	0.012	2	0.000	180	18.0
	164	0.012	2	0.000	180	18.1
	165	0.012	2	0.000	180	18.2
	166	0.012	2	0.000	180	18.3
	167	0.012	2	0.000	180	18.4
	168	0.012	2	0.000	180	18.5
	169	0.012	2	0.000	180	18.6
	170	0.012	2	0.000	180	18.7
Perfor 23	171	0.012	2	0.000	180	18.8
	172	0.012	2	0.000	180	18.9
	173	0.012	2	0.000	180	19.0
	174	0.012	2	0.000	180	19.1
	175	0.012	2	0.000	180	19.2
	176	0.012	2	0.000	180	19.3
	177	0.012	2	0.000	180	19.4
	178	0.012	2	0.000	180	19.5
	179	0.012	2	0.000	180	19.6
	180	0.012	2	0.000	180	19.7
Perfor 24	181	0.012	2	0.000	180	19.8
	182	0.012	2	0.000	180	19.9
	183	0.012	2	0.000	180	20.0
	184	0.012	2	0.000	180	20.1
	185	0.012	2	0.000	180	20.2
	186	0.012	2	0.000	180	20.3
	187	0.012	2	0.000	180	20.4
	188	0.012	2	0.000	180	20.5
	189	0.012	2	0.000	180	20.6
	190	0.012	2	0.000	180	20.7
Perfor 25	191	0.012	2	0.000	180	20.8
	192	0.012	2	0.000	180	20.9
	193	0.012	2	0.000	180	21.0
	194	0.012	2	0.000	180	21.1
	195	0.012	2	0.000	180	21.2
	196	0.012	2	0.000	180	21.3
	197	0.012	2	0.000	180	21.4
	198	0.012	2	0.000	180	21.5
	199	0.012	2	0.000	180	21.6
	200	0.012	2	0.000	180	21.7
Perfor 26	201	0.012	2	0.000	180	21.8
	202	0.012	2	0.000	180	21.9
	203	0.012	2	0.000	180	22.0
	204	0.012	2	0.000	180	22.1
	205	0.012	2	0.000	180	22.2
	206	0.012	2	0.000	180	22.3
	207	0.012	2	0.000	180	22.4
	208	0.012	2	0.000	180	22.5
	209	0.012	2	0.000	180	22.6
	210	0.012	2	0.000	180	22.7
Perfor 27	211	0.012	2	0.000	180	22.8
	212	0.012	2	0.000	180	22.9
	213	0.012	2	0.000	180	23.0
	214	0.012	2	0.000	180	23.1
	215	0.012	2	0.000	180	23.2
	216	0.012	2	0.000	180	23.3
	217	0.012	2	0.000	180	23.4
	218	0.012	2	0.000	180	23.5
	219	0.012	2	0.000	180	23.6
	220	0.012	2	0.000	180	23.7
Perfor 28	221	0.012	2	0.000	180	23.8
	222	0.012	2			



Elemento	Pos.	Distm.	No.	Long. (cm)	Total (cm)	Alt-40 (kg)
Niles II	1	413	3	270	793	9.1
	2	410	2	270	790	4.6
	3	410	2	270	790	4.6
	4	410	2	200	810	2.8
	5	410	2	180	590	2.8
	6	410	2	110	520	13.9
	7	410	2	200	690	3.7
	8	412	2	200	612	4.6
	9	400	2	200	500	12.8
	10	412	2	200	612	2.1
	11	408	2	190	598	11.2
	12	408	2	190	598	1.0
	13	408	4	110	518	10.1
Totale						101.0
				496	1537	
				4120	39.8	
				4120	39.8	
				4020	3.8	
				Totale	101.0	

Losos
Despiece de vigas
 Normigón: H-21 , Control Normal
 Acero: AH-400 , Control Normal
 Escala: 1:50



Elemento	Pos.	Dídm.	No.	Long. (cm)	Total (mm)
Parte 24					
1	012	2	025	1000	1118
2	012	2	025	1000	
3	010	2	300	770	
4	010	2	240	800	
5	010	2	300	810	
6	010	2	180	220	
7	010	2	1125	2250	
8	010	2	300	780	
9	012	2	300	780	
10	010	2	270	780	
11	012	2	270	780	
12	012	2	185	300	
13	006	8	180	804	
14	006	30	136	6254	
15	006	9	130	6230	
Total + 5000					600
					0120

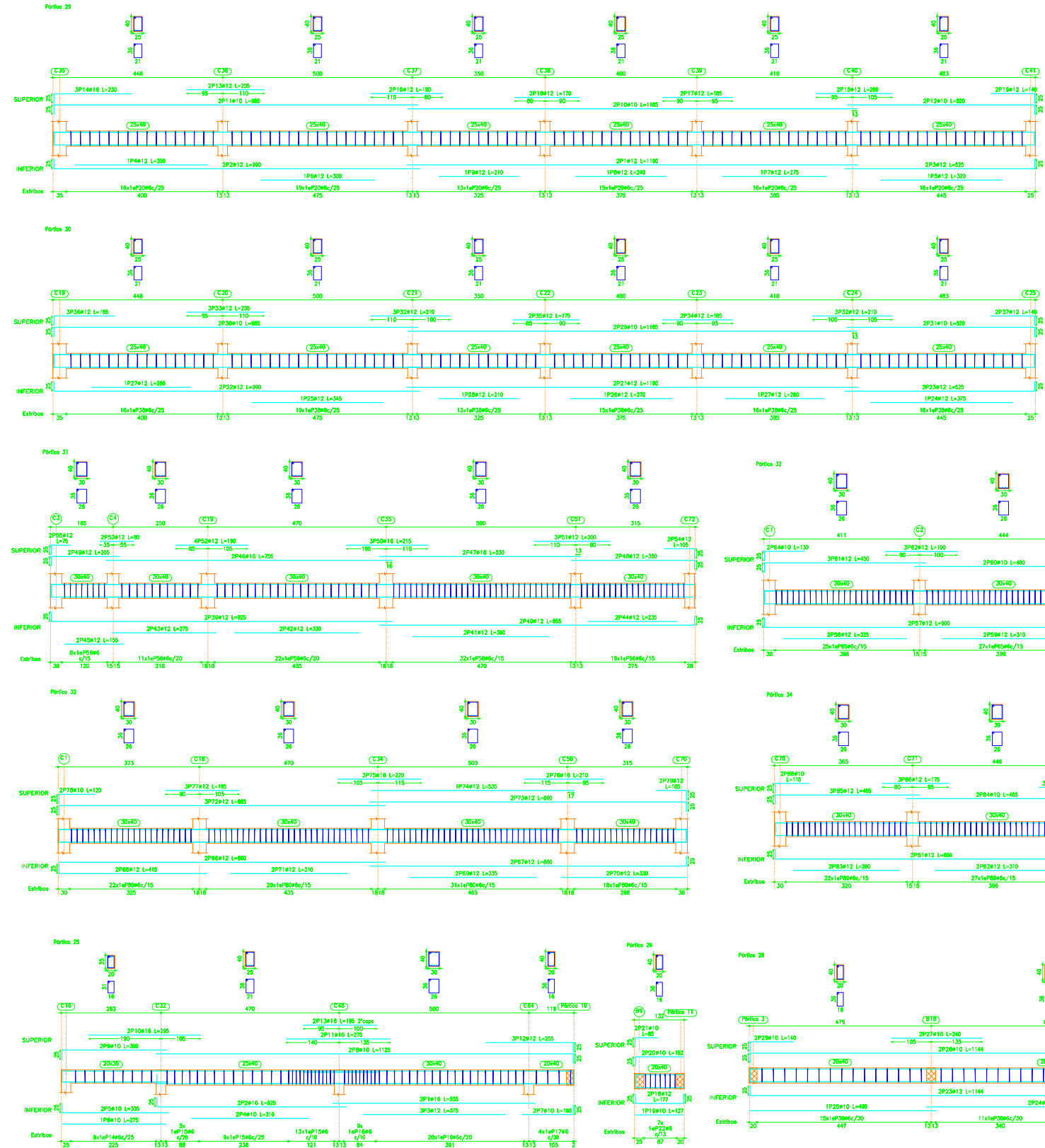
Losa
Despiece de vigas
Hormigón: H-21 , Control Normal
Acero: AH-400 , Control Normal

Elemento	Pos.	D'om.	No.	Long. (cm)	Total/ (cm)	AH-400 (kg)
Pala 19	1	016	2	205	1110	17.3
	2	016	2	210	1120	17.5
	3	016	2	208	710	4.4
	4	012	3	205	305	2.7
	5	010	2	200	810	5.8
	6	010	2	180	280	2.0
	7	010	2	1120	280	2.0
	8	010	2	200	650	3.7
	9	012	2	205	705	6.8
	10	000	2	210	705	6.8
	11	012	3	205	705	6.8
	12	06	6	120	60	6.1
	13	06	30	120	6100	11.8
	14	06	4	110	40	1.0
Total / 1000						100.1
						06
						012
						010
						000
						06
						012
						010
						000
						06
						012
						010
						000

Losa
 Despiece de vigas
 Hormigón: H-21 , Control Normal
 Acero: AH-400 , Control Normal
 Escala: 1:50

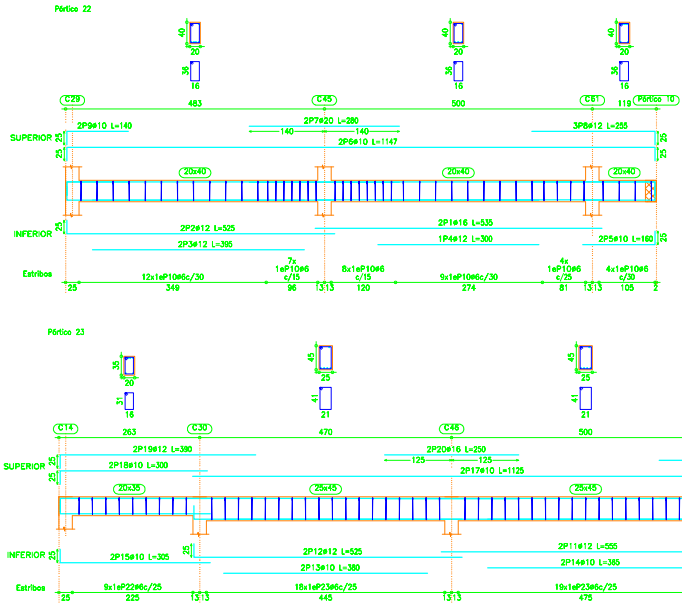
Elemento	Pos.	Ditr.	No.	Long. (cm)	Total (cm)	AH-4000 (kg)
Puffer 36	1	018	2	505	1110	17,5
	2	018	2	505	1090	16,5
	3	012	9	300	1080	8,8
	4	012	1	300	320	0,1
	5	010	2	258	610	12,8
	6	010	1	275	275	1,0
	7	010	2	180	380	2,0
	8	010	2	1120	2270	13,8
	9	010	2	320	920	3,7
	10	016	2	330	660	10,4
	11	020	3	300	900	22,0
	12	016	3	288	864	12,8
13	06	0	108	91	2,1	0,1
	06	40	138	828	143,8	5,0
	06	0	140	120	2,0	0,0
	06	0	128	63	1,4	0,0
	06	0				
Totale 108						186,1
						04: 19,8
						05: 8,5
						010: 27,8

Losa
Despiece de vigas
Hormigón: H-21, Control Normal



Elemento	Pos.	Dím.	No.	Long.	Total (AH-400CH)
Flecha 29					
Flecha 30					
Flecha 31					
Flecha 32					
Flecha 33					
Flecha 34					
Flecha 35					
Flecha 36					

Losas
Espesores de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



Elemento	Pos.	Dím.	No.	Long.	Total (AH-400CH)
Flecha 22					
Flecha 23					
Flecha 27					

Losas
Espesores de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50

Elemento	Pos.	Dím.	No.	Long.	Total (AH-400CH)
Flecha 27					

Losas
Espesores de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50

Elemento	Pos.	Dím.	No.	Long.	Total (AH-400CH)
Flecha 27					

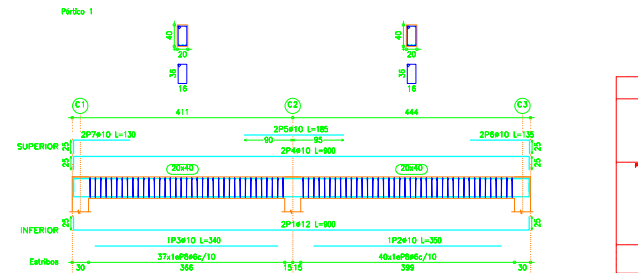
Losas
Espesores de vigas
Hormigón: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50

PROYECTO:
DISEÑO ESTRUCTURAL CENTRO DE SALUD DISTRITO 4 BERMEJO

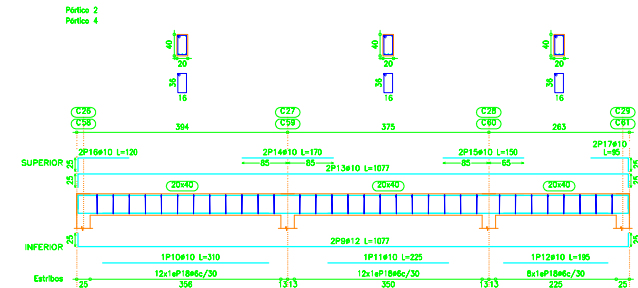
CONCEPTO:
VIGAS DE LA PRIMERA LOSA

ESTUDIANTE:
HUGO FERNANDO NIEVES FERNANDEZ

Vo Bo: PLANO:
8/17

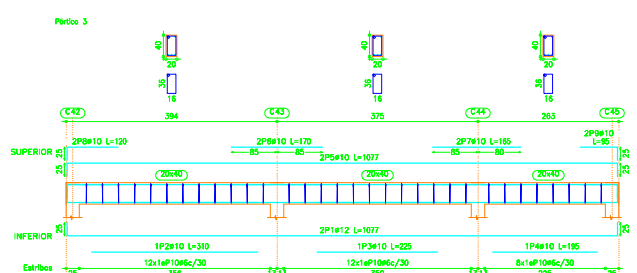


Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 1					
2P7#10	1	7	10	130	1.1
2P5#10	2	5	10	185	1.1
2P5#10	3	5	10	135	1.1
1P3#10	4	3	10	340	1.1
2P1#12	5	12	1	900	1.1
1P3#10	6	3	10	350	1.1
37x1#P10#6c/10	7	10	6	37	1.1
40x1#P10#6c/10	8	10	6	40	1.1
Total					8.8



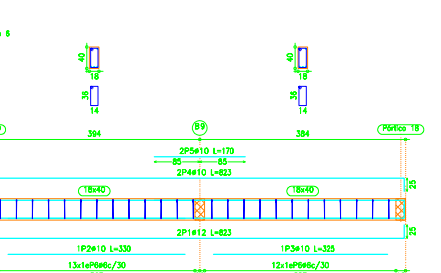
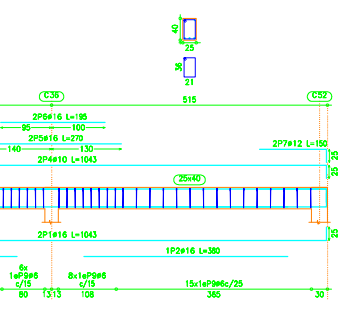
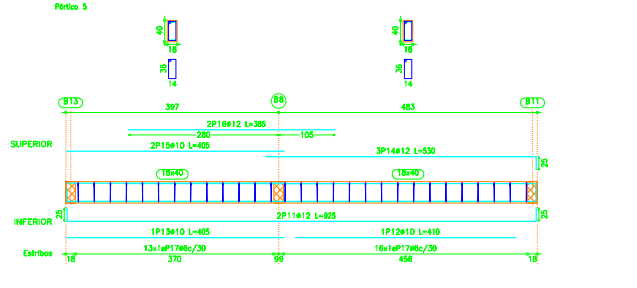
Resumen Acero	Long. total (m)	Peso (kg)	Total
Acero: AH-400C	1471.0	358	
Acero: AH-400	967.1	806	
Acero: AH-400	638.7	625	
Acero: AH-400	108.5	188	
Acero: AH-400	33.1	90	
Total		1918	

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



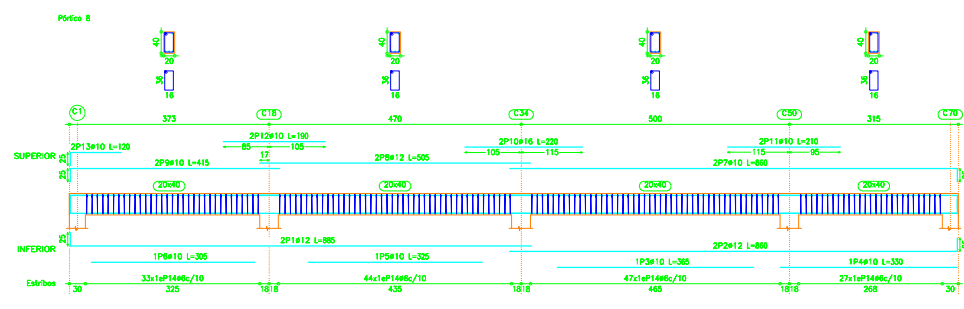
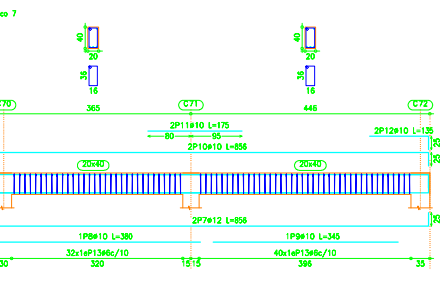
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 3					
2P8#10	1	8	10	120	1.1
2P8#10	2	8	10	170	1.1
2P5#10	3	5	10	1077	1.1
2P8#10	4	8	10	90	1.1
1P2#10	5	2	10	310	1.1
2P1#12	6	12	1	1077	1.1
1P3#10	7	3	10	225	1.1
1P4#10	8	4	10	195	1.1
12x1#P10#6c/30	9	10	6	12	1.1
12x1#P10#6c/30	10	10	6	12	1.1
8x1#P10#6c/30	11	10	6	8	1.1
Total					12.2

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



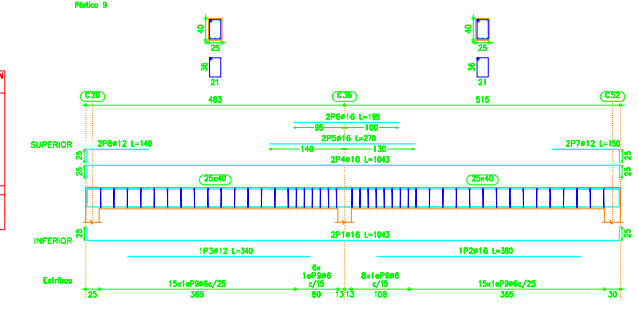
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 4					
2P5#10	1	5	10	170	1.1
2P4#10	2	4	10	833	1.1
1P2#10	3	2	10	330	1.1
2P1#12	4	12	1	833	1.1
1P3#10	5	3	10	325	1.1
13x1#P10#6c/30	6	10	6	13	1.1
12x1#P10#6c/30	7	10	6	12	1.1
Total					8.8

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



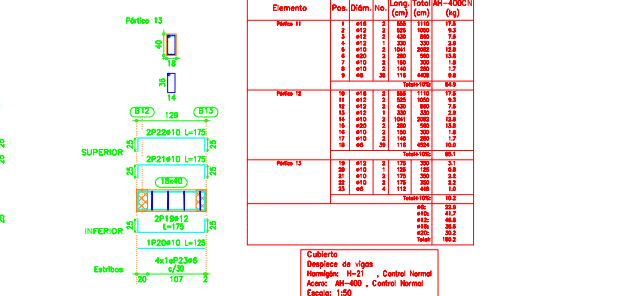
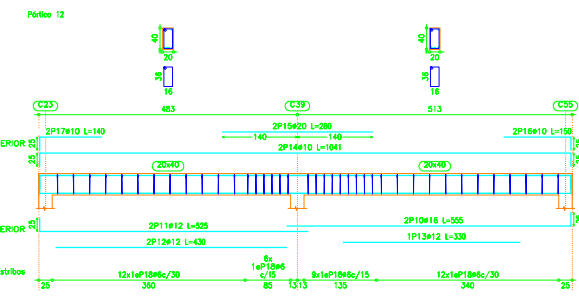
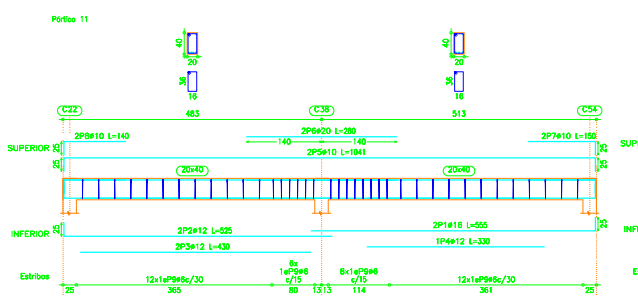
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 5					
2P13#10	1	13	10	120	1.1
2P9#10	2	9	10	415	1.1
2P8#12	3	8	12	555	1.1
2P10#10	4	10	2	210	1.1
2P7#10	5	7	10	880	1.1
1P5#10	6	5	10	305	1.1
2P1#12	7	12	1	885	1.1
1P5#10	8	5	10	325	1.1
2P2#12	9	2	12	880	1.1
1P4#10	10	4	10	330	1.1
2P1#10	11	1	10	880	1.1
33x1#P10#6c/10	12	10	6	33	1.1
44x1#P10#6c/10	13	10	6	44	1.1
47x1#P10#6c/10	14	10	6	47	1.1
27x1#P10#6c/10	15	10	6	27	1.1
Total					18.7

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



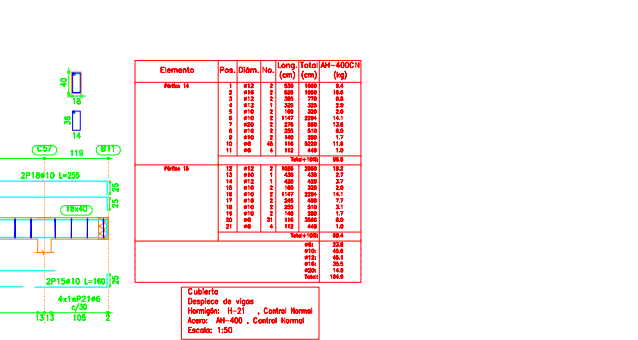
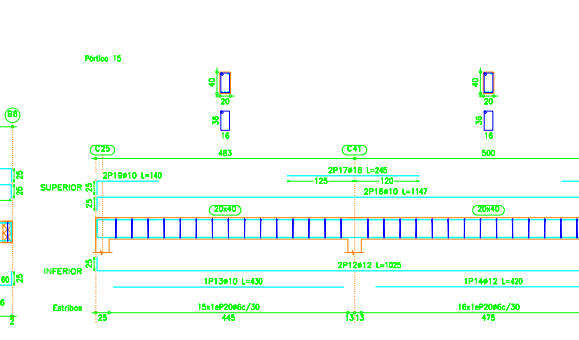
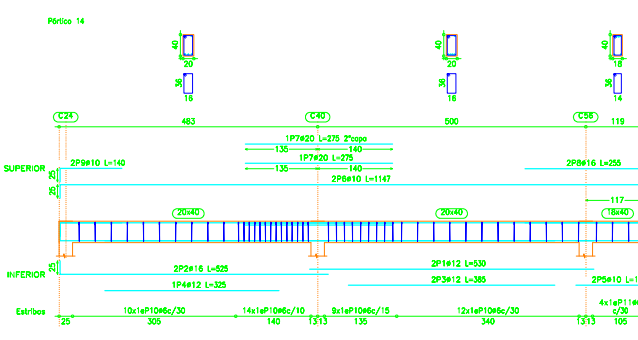
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 6					
2P17#10	1	17	10	140	1.1
2P15#20	2	15	20	280	1.1
2P14#10	3	14	10	1043	1.1
2P16#10	4	16	10	135	1.1
2P11#12	5	12	2	525	1.1
2P10#16	6	10	16	560	1.1
1P13#12	7	13	1	305	1.1
11x1#P10#6c/30	8	10	6	11	1.1
9x1#P10#6c/15	9	10	6	9	1.1
8x1#P10#6c/15	10	10	6	8	1.1
12x1#P10#6c/30	11	10	6	12	1.1
Total					12.2

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 7					
2P22#10	1	22	10	175	1.1
2P21#10	2	21	10	175	1.1
2P19#12	3	19	12	175	1.1
1P20#10	4	20	1	125	1.1
4x1#P23#6c/20	5	23	4	4	1.1
4x1#P23#6c/20	6	23	4	4	1.1
Total					8.8

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (kg)
Nota 8					
2P19#10	1	19	10	140	1.1
2P17#18	2	17	18	345	1.1
2P16#10	3	16	10	1147	1.1
2P18#10	4	18	10	255	1.1
1P13#10	5	13	1	430	1.1
2P12#12	6	12	2	1025	1.1
1P14#12	7	14	1	420	1.1
2P15#10	8	15	1	160	1.1
15x1#P10#6c/30	9	10	6	15	1.1
16x1#P10#6c/30	10	10	6	16	1.1
4x1#P21#6c/30	11	21	4	4	1.1
Total					18.8

Cubierta
Desplaza de vigas
Homólogo: H-21, Control Normal
Acero: AH-400, Control Normal
Escala: 1:50