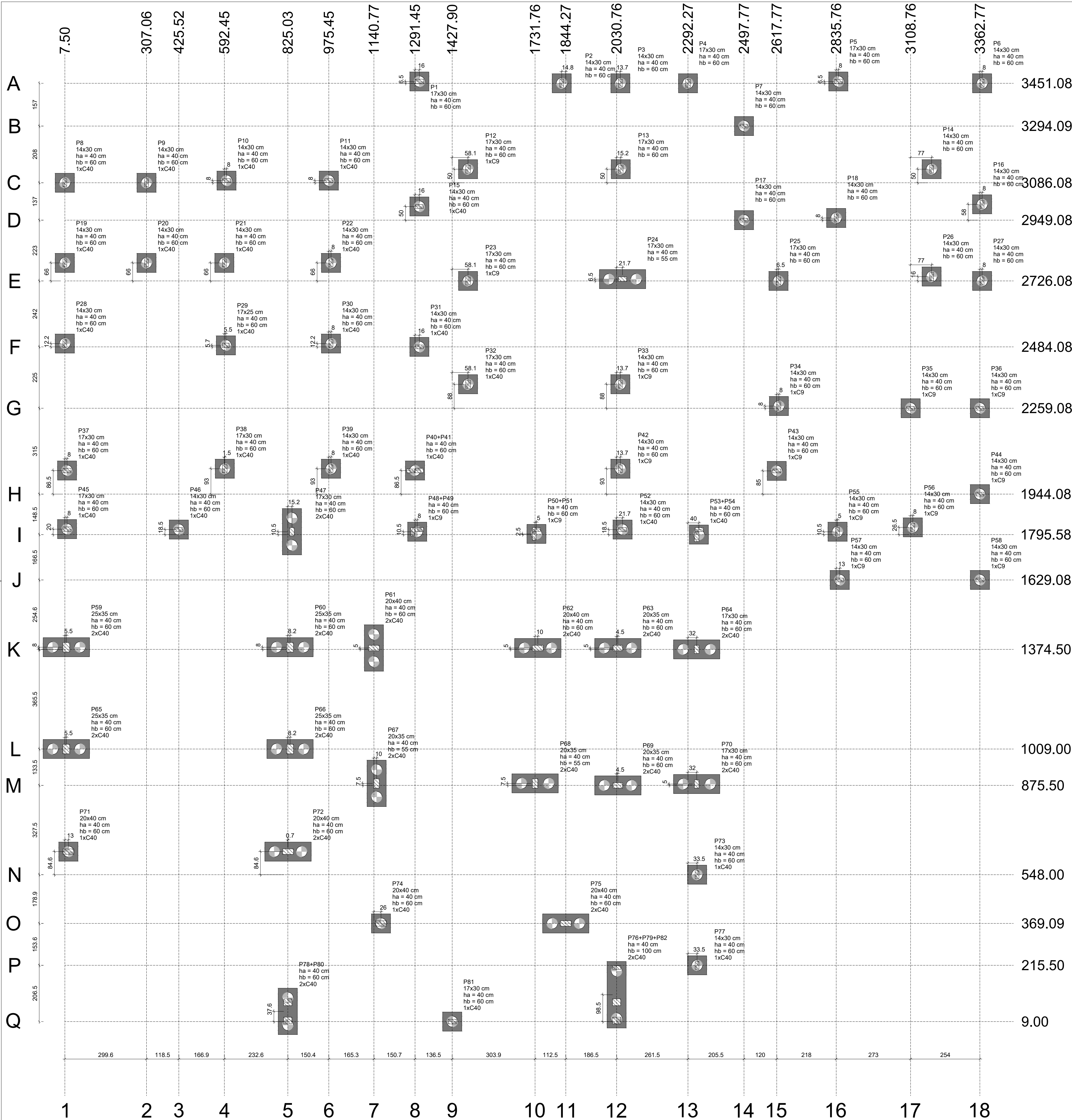
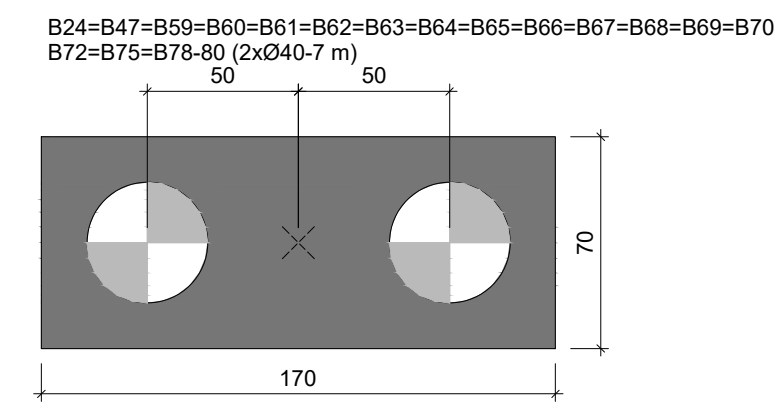
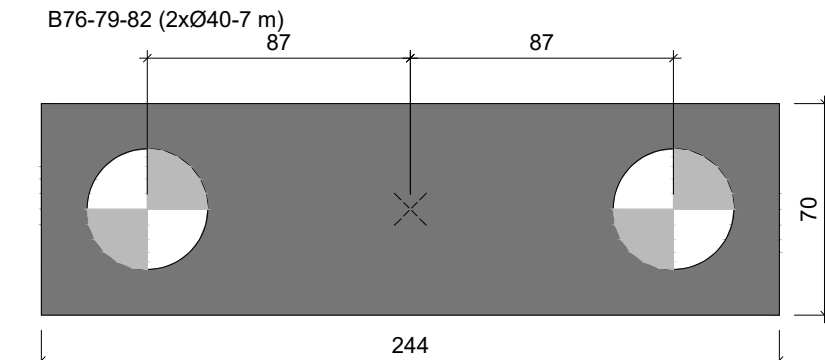




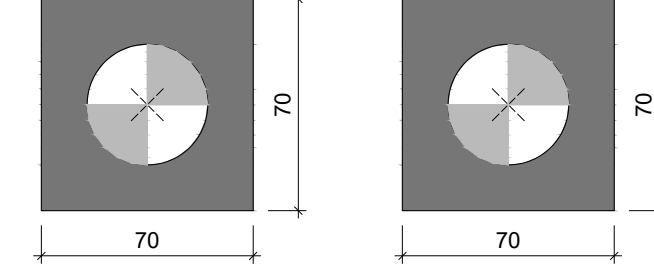
Planta de locação

Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Fundação						Bloco	
						Lado B (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	Estaca	ca (cm)		
P1	17x30	1307.45	3457.58	12.8	11.3	70	70	40	60	1	Ø40-10 m	103	
P2	14x30	1829.45	3451.08	10.9	9.3	70	70	40	60	1	Ø40-10 m	103	
P3	14x30	2044.45	3451.09	5.4	5.0	70	70	40	60	1	Ø40-7 m	103	
P4	17x30	2292.27	3451.09	8.6	7.7	70	70	40	60	1	Ø40-7 m	103	
P5	17x30	2843.76	3457.58	16.0	13.8	70	70	40	60	1	Ø40-10 m	103	
P6	14x30	3370.77	3451.09	12.3	10.9	70	70	40	60	1	Ø40-10 m	103	
P7	14x30	2497.77	3294.09	10.6	8.9	70	70	40	60	1	Ø40-10 m	103	
P8	14x30	7.50	3086.08	8.8	7.7	70	70	40	60	1	Ø40-7 m	103	
P9	14x30	307.06	3086.09	9.8	8.5	70	70	40	60	1	Ø40-7 m	103	
P10	14x30	600.45	3094.09	9.4	8.1	70	70	40	60	1	Ø40-7 m	103	
P11	14x30	975.45	3094.08	7.4	6.6	70	70	40	60	1	Ø40-7 m	103	
P12	17x30	1485.95	3136.08	12.8	10.3	70	70	40	60	1	Ø40-10 m	103	
P13	17x30	2045.95	3136.08	11.4	9.0	70	70	40	60	1	Ø40-10 m	103	
P14	14x30	3185.77	3136.08	8.9	7.4	70	70	40	60	1	Ø40-7 m	103	
P15	14x30	1307.45	2999.08	6.5	5.9	70	70	40	60	1	Ø40-7 m	103	
P16	14x30	3370.77	3007.09	7.5	6.7	70	70	40	60	1	Ø40-7 m	103	
P17	14x30	2497.77	2949.08	8.7	6.5	70	70	40	60	1	Ø40-7 m	103	
P18	14x30	2835.76	2957.08	9.7	7.3	70	70	40	60	1	Ø40-10 m	103	
P19	14x30	7.50	2792.09	9.1	8.1	70	70	40	60	1	Ø40-7 m	103	
P20	14x30	307.07	2792.09	8.2	6.6	70	70	40	60	1	Ø40-7 m	103	
P21	14x30	592.45	2792.09	6.9	5.3	70	70	40	60	1	Ø40-7 m	103	
P22	14x30	983.45	2792.09	6.6	5.8	70	70	40	60	1	Ø40-7 m	103	
P23	17x30	1485.95	2726.08	12.2	10.5	70	70	40	60	1	Ø40-10 m	103	
P24	17x30	2052.45	2732.58	17.7	14.8	170	70	40	55	2	Ø40-7 m	108	
P25	17x30	2624.26	2726.08	14.6	12.5	70	70	40	60	1	Ø40-10 m	103	
P26	14x30	3185.77	2742.08	12.4	10.2	70	70	40	60	1	Ø40-10 m	103	
P27	14x30	3370.77	2726.08	6.5	6.0	70	70	40	60	1	Ø40-10 m	103	
P28	14x30	7.50	2496.28	13.9	11.8	70	70	40	60	1	Ø40-7 m	103	
P29	17x25	597.95	2489.78	13.4	10.3	70	70	40	60	1	Ø40-7 m	103	
P30	14x30	983.45	2496.28	8.7	7.6	70	70	40	60	1	Ø40-7 m	103	
P31	14x30	1307.45	2484.08	5.0	4.7	70	70	40	60	1	Ø40-7 m	103	
P32	17x30	1485.96	2347.08	12.8	10.3	70	70	40	60	1	Ø40-7 m	103	
P33	14x30	2044.45	2347.08	12.2	10.4	70	70	40	60	1	Ø40-10 m	103	
P34	14x30	2625.76	2267.08	13.5	11.5	70	70	40	60	1	Ø40-10 m	103	
P35	14x30	3108.76	2259.08	15.6	12.8	70	70	40	60	1	Ø40-10 m	103	
P36	14x30	3362.77	2259.08	11.6	10.2	70	70	40	60	1	Ø40-10 m	103	
P37	17x30	15.50	2030.58	13.2	11.1	70	70	40	60	1	Ø40-7 m	103	
P38	17x30	593.95	2037.08	12.6	9.7	70	70	40	60	1	Ø40-7 m	103	
P39	14x30	983.46	2037.08	9.4	8.1	70	70	40	60	1	Ø40-7 m	103	
P40	14x30	2044.46	2037.08	16.2	13.5	70	70	40	60	1	Ø40-10 m	103	
P41	14x30	2617.77	2029.08	10.3	9.0	70	70	40	60	1	Ø40-10 m	103	
P42	14x30	3362.76	1944.08	8.8	7.7	70	70	40	60	1	Ø40-10 m	103	
P43	17x30	15.50	1815.58	12.7	11.4	70	70	40	60	1	Ø40-7 m	103	
P44	14x30	425.52	1814.08	12.6	10.7	70	70	40	60	1	Ø40-7 m	103	
P47	17x30	840.26	1806.08	18.8	16.9	170	70	40	60	2	Ø40-7 m	103	
P52	14x30	2052.46	1814.08	5.3	4.8	70	70	40	60	1	Ø40-7 m	103	
P55	14x30	2840.77	1806.08	10.5	9.3	70	70	40	60	1	Ø40-10 m	103	
P56	14x30	3116.77	1822.08	9.2	7.6	70	70	40	60	1	Ø40-10 m	103	
P57	14x30	2848.77	1629.08	7.6	6.9	70	70	40	60	1	Ø40-10 m	103	
P58	14x30	3362.77	1629.08	10.3	9.2	70	70	40	60	1	Ø40-10 m	103	
P59	25x35	13.00	1382.50	16.8	14.2	170	70	40	60	2	Ø40-7 m	103	
P60	25x35	833.26	1382.50	20.8	17.5	170	70	40	60	2	Ø40-7 m	103	
P61	20x40	1140.77	1379.50	19.7	17.3	170	70	40	60	2	Ø40-7 m	103	
P62	20x40	1741.76	1379.50	21.4	18.1	170	70	40	60	2	Ø40-7 m	103	
P63	20x35	2035.27	1379.50	22.0	19.8	170	70	40	60	2	Ø40-7 m	103	
P64	17x30	2324.26	1374.50	17.0	15.2	170	70	40	60	2	Ø40-7 m	103	
P65	25x35	13.00	1009.00	15.7	13.2	170	70	40	60	2	Ø40-7 m	103	
P66	25x35	833.27	1009.01	15.9	12.9	170	70	40	60	2	Ø40-7 m	103	
P67	20x35	1150.77	883.00	19.1	15.4	170	70	40	55	2	Ø40-7 m	108	
P68	20x35	1731.76	883.00	20.9	17.2	170	70	40	55	2	Ø40-7 m	108	
P69	20x35	2035.26	875.50	22.3	20.2	170	70	40	60	2	Ø40-7 m	103	
P70	17x30	2324.27	880.50	16.9	15.1	170	70	40	60	2	Ø40-7 m	103	
P71	20x40	2050.50	632.59	12.1	10.7	70	70	40	60	1	Ø40-7 m	103	
P72	20x40	825.76	632.59	23.5	21.3	170	70	40	60	2	Ø40-7 m	103	
P73	14x30	2325.77	548.00	9.3	8.2	70	70	40	60	1	Ø40-7 m	103	
P74	20x40	1166.77	369.09	12.5	11.0	70	70	40	60	1	Ø40-7 m	103	
P75	20x40	1844.27	369.09	19.1	16.1	170	70	40	60	2	Ø40-7 m	103	
P77	14x30	2325.77	215.50	6.3	5.6	70	70	40	60	1	Ø40-7 m	103	
P81	17x30	1427.90	9.00	1.0	1.0	70	70	40	60	1	Ø40-4 m	103	
P40+P41		1291.45	2030.58	13.6	11.6	70	70	40	60	1	Ø40-7 m	103	
P48+P49		1299.45	1806.08	15.7	13.7	70	70	40	60	1	Ø40-10 m	103	
P53+P54		1736.76	1798.08	16.5	13.9	70	70	40	60	1	Ø40-10 m	103	
P55+P54		2332.27	1795.58	14.2	12.4	70	70	40	60	1	Ø40-7 m	103	
P78+P80		825.03	46.60	22.5	21.7	170	70	40	60	2	Ø40-7 m	103	
P76+P79+P82		2030.76	107.50	20.2	19.3	244	70	40	100	2	Ø40-7 m	63	



B3=B4=B8=B9=B10=B11=B14
B15=B16=B17=B19=B20=B21
B22=B28=B29=B30=B31=B32
B37=B38=B39=B45=B46=B52
B71=B73=B74=B77=B81=B40-41
B53-54 (1xØ40-7 m)

B1=B2=B5=B6=B7=B12=B13
B18=B23=B25=B26=B27=B33
B34=B35=B36=B42=B43=B44
B55=B56=B57-B58=B48-49
B50-51 (1xØ40-10 m)



Legenda dos blocos

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

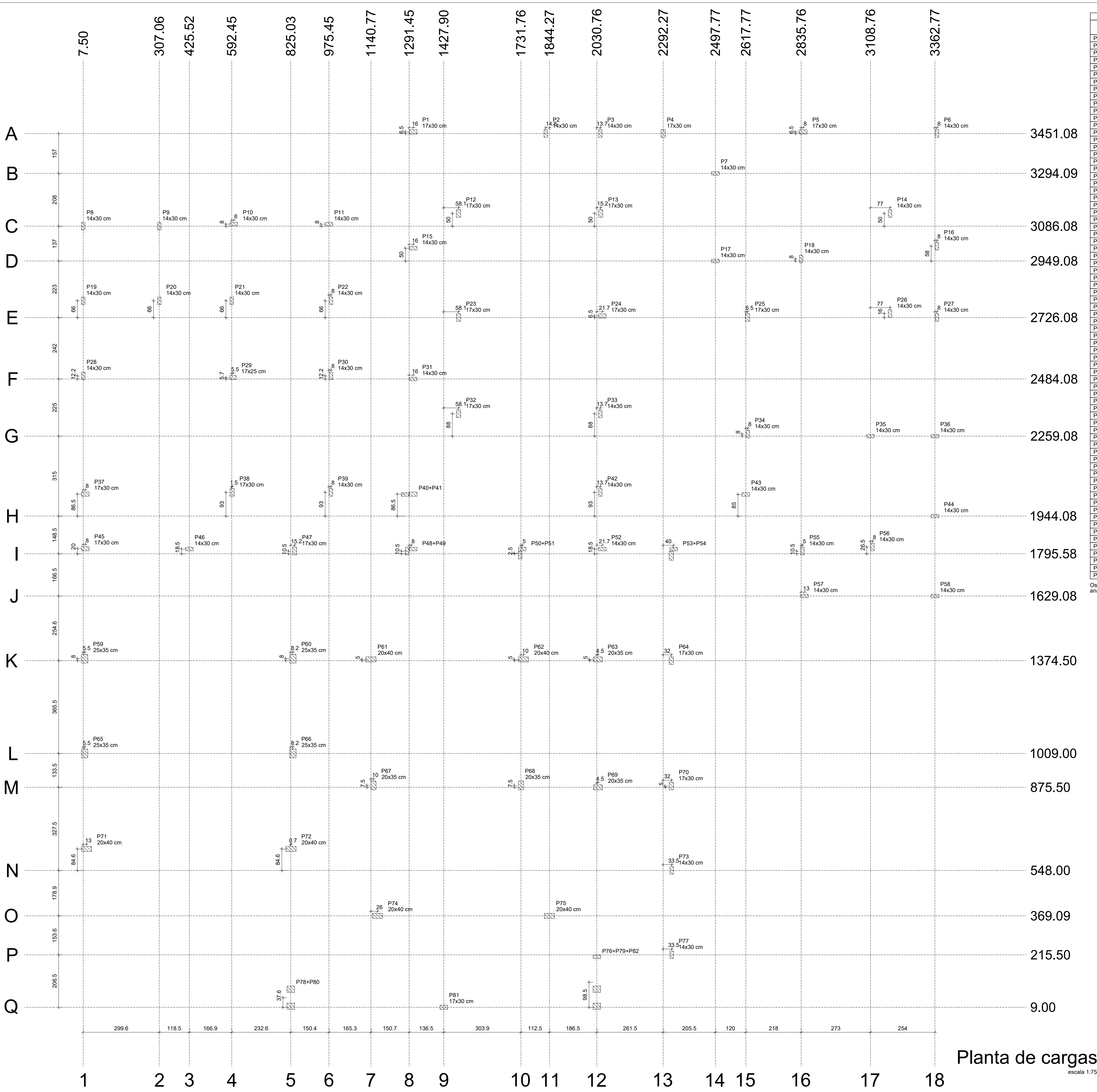
ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

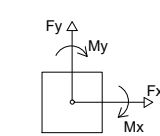
CONTEUDO: PLANTA DE LOCAÇÃO.	ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²	PRANCHA: 01/11
ESCALA: INDICADA	REVISÃO: 00	DATA: SETEMBRO 2025

MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS
PROCURADORIA-GERAL DE JUSTIÇA



Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Min. (tf)	Pilar		Mx Máximo (kgf.m)	My Máximo (kgf.m)	Fx Máximo (tf)		Fy Máximo (tf)	
						Positivo	Negativo			Positivo	Negativo	Positivo	Negativo
						0	0			0	0	0	0
P1	17x30	1307.45	3457.58	12.8	11.3	0	0	0	0	0.0	-0.4	0.5	0.0
P2	14x30	1829.45	3451.08	10.9	9.3	0	0	0	0	0.1	-0.2	0.0	-0.2
P3	14x30	2044.45	3451.09	5.4	5.0	0	0	0	0	0.0	-0.2	0.3	0.0
P4	17x30	2292.27	3451.09	8.5	7.7	0	0	0	0	0.0	-0.4	0.4	0.0
P5	17x30	2843.76	3457.58	16.0	13.8	0	0	0	0	0.1	-0.1	0.2	-0.2
P6	14x30	3370.77	3451.09	12.3	10.9	0	0	0	0	0.5	0.0	0.3	0.0
P7	14x30	2497.77	3294.09	10.6	8.9	0	0	0	0	0.6	0.0	0.0	-0.5
P8	14x30	7.50	3086.08	8.8	7.7	0	0	0	0	0.0	-0.3	0.3	0.0
P9	14x30	307.06	3086.09	9.8	8.5	0	0	0	0	0.2	-0.2	0.3	0.0
P10	14x30	600.45	3094.09	9.4	8.1	0	0	0.1	-0.1	0.2	-0.2	0.0	0.0
P11	14x30	975.45	3094.08	7.4	6.6	0	0	0	0	0.2	0.0	0.4	0.0
P12	17x30	1485.95	3136.08	12.8	10.3	0	0	0	0	0.2	0.0	0.4	0.0
P13	17x30	2045.95	3136.08	11.4	9.0	0	0	0	0	0.3	0.0	0.0	-0.4
P14	14x30	3185.77	3136.08	8.9	7.4	0	0	0	0	0.0	-0.2	0.3	0.0
P15	14x30	1307.45	2999.08	6.5	5.9	0	0	0	0	0.0	-0.2	0.0	-0.6
P16	14x30	3370.77	3007.09	7.5	6.7	0	0	0	0	0.2	0.0	0.0	-0.3
P17	14x30	2497.77	2949.08	8.7	6.5	0	0	0	0	0.2	0.0	0.3	0.0
P18	14x30	2835.76	2957.08	9.7	7.3	0	0	0	0	0.3	0.0	0.1	-0.1
P19	14x30	7.50	2792.09	9.1	8.1	0	0	0	0	0.0	-0.3	0.2	-0.3
P20	14x30	307.07	2792.09	8.2	6.6	0	0	0	0	0.2	0.0	0.0	-0.5
P21	14x30	592.45	2792.09	6.9	5.3	0	0	0	0	0.1	-0.1	0.2	-0.2
P22	14x30	983.45	2792.09	6.6	5.8	0	0	0	0	0.2	0.0	0.2	-0.3
P23	17x30	1485.95	2726.08	12.2	10.5	0	0	0	0	0.2	0.0	0.2	-0.1
P24	17x30	2052.45	2732.58	17.7	14.8	0	0	0	0	0.0	-0.4	0.3	0.0
P25	17x30	2624.26	2726.08	14.6	12.5	0	0	0	0	0.4	0.0	0.2	0.0
P26	14x30	3185.77	2742.08	12.4	10.2	0	0	0	0	0.1	-0.1	0.0	-0.3
P27	14x30	3370.77	2726.08	6.5	6.0	0	0	0	0	0.1	0.0	0.3	0.0
P28	14x30	7.50	2496.28	13.9	11.8	0	0	0	0	0.2	0.0	0.3	0.0
P29	17x25	597.95	2499.78	13.4	10.3	0	0	0	0	0.2	0.0	0.2	-0.1
P30	14x30	983.45	2496.28	8.7	7.6	0	0	0	0	0.2	0.0	0.3	-0.2
P31	14x30	1307.45	2484.08	5.0	4.7	0	0	0	0	0.0	-0.2	0.6	0.0
P32	17x30	1485.96	2347.08	12.8	10.3	0	0	0	0	0.2	0.0	0.0	-0.2
P33	14x30	2044.45	2347.08	12.2	10.4	0	0	0	0	0.0	-0.1	0.1	-0.3
P34	14x30	2625.76	2267.08	13.5	11.5	0	0	0	0	0.0	-0.4	0.1	-0.1
P35	14x30	3108.76	2259.08	15.6	12.8	0	0	0	0	0.4	0.0	0.4	0.0
P36	14x30	3362.77	2259.08	11.8	10.2	0	0	0	0	0.3	0.0	0.0	-0.3
P37	17x30	15.50	2030.58	13.2	11.1	0	0	0	0	0.2	0.0	0.1	-0.4
P38	17x30	593.95	2037.08	12.6	9.7	0	0	0	0	0.1	-0.2	0.1	-0.2
P39	14x30	983.46	2037.08	9.4	8.1	0	0	0	0	0.1	-0.4	0.2	-0.1
P42	14x30	2044.46	2037.08	16.2	13.5	0	0	0	0	0.0	-0.5	0.1	-0.3
P43	14x30	2617.77	2029.09	10.3	9.0	0	0	0	0	0.3	0.0	0.3	0.0
P44	14x30	3362.76	1944.08	8.8	7.7	0	0	0	0	0.2	0.0	0.2	0.0
P45	17x30	15.50	1815.58	12.7	11.4	0	0	0	0	0.0	-0.2	0.3	0.0
P46	14x30	425.52	1814.08	12.6	10.7	0	0	0	0	0.2	-0.1	0.1	0.0
P47	17x30	840.26	1806.08	18.8	16.9	0	0	0	0	0.0	-0.5	0.3	-0.2
P52	14x30	2052.46	1814.08	5.3	4.8	0	0	0	0	0.2	-0.3	0.1	-0.1
P55	14x30	2840.77	1806.08	10.5	9.3	0	0	0	0	0.3	0.0	0.0	-0.3
P56	14x30	3116.77	1822.08	9.2	7.6	0	0	0	0	0.2	-0.2	0.0	-0.6
P57	14x30	2848.77	1629.08	7.8	6.9	0	0	0	0	0.0	-0.4	0.1	-0.1
P58	14x30	3362.77	1629.08	10.3	9.2	0	0	0	0	0.4	0.0	0.0	-0.1
P59	25x35	13.00	1382.50	16.8	14.2	0	0	0	0	0.0	-0.6	0.2	-0.1
P60	25x35	833.26	1382.50	20.8	17.5	0	0	0	0	0.1	-0.5	0.2	-0.2
P61	20x40	1140.77	1379.50	19.7	17.3	0	0	0	0	0.4	-0.1	0.0	-0.5
P62	20x40	1741.76	1379.50	21.4	18.1	0	0	0	0	0.5	0.0	0.4	-0.2
P63	20x35	2035.27	1379.50	22.0	19.8	0	0	0	0	0.5	-0.2	0.6	0.0
P64	17x30	2324.26	1374.50	17.0	15.2	0	0	0	0	0.4	-0.2	0.6	0.0
P65	25x35	13.00	1009.00	15.7	13.2	0	0	0	0	0.0	-0.5	0.2	-0.1
P66	25x35	833.27	1009.01	15.9	12.9	0	0	0	0	0.4	0.0	0.2	-0.3
P67	20x35	1150.77	883.00	19.1	15.4	0	0	0	0	0.2	-0.2	0.3	0.0
P68	20x35	1731.76	883.00	20.9	17.2	0	0	0	0	0.1	-0.3	0.1	-0.4
P69	20x35	2035.26	875.50	22.3	20.2	0	0	0	0	0.5	0.0	0.0	-0.7
P70	17x30	2324.27	880.50	16.9	15.1	0	0	0	0	0.4	0.0	0.3	-0.4
P71	20x40	20.50	632.59	12.1	10.7	0	0	0	0	0.0	-0.6	0.1	-0.1
P72	20x40	825.76	632.59	23.5	21.3	0	0	0	0	0.1	-0.5	0.3	-0.3
P73	14x30	2325.77	548.00	9.3	8.2	0	0	0	0	0.2	0.0	0.5	-0.2
P74	20x40	1166.77	369.09	12.5	11.0	0	0	0	0	0.4	0.0	0.1	-0.3
P75	20x40	1844.27	369.09	19.1	16.1	0	0	0	0	0.0	-0.5	0.0	-0.5
P77	14x30	2325.77	215.50	6.3	5.6	0	0	0	0	0.4	0.0	0.3	-0.1
P81	17x30	1427.90	0.00	1.0	1.0	0	0	0	0	0.6	-0.3	0.1	0.0
P40+P41		1291.45	2030.58	13.6	11.6	0	0	0	0	0.0	-0.1	0.0	-0.4
P48+P49		1299.45	1806.08	15.7	13.7	0	0	0	0	0.6	0.0	0.0	-0.3
P50+P51		1736.76	1798.08	16.5	13.9	0	0	0	0	0.4	0.0	0.0	-0.5
P53+P54		2332.27	1795.58	14.2	12.4	0	0	0	0	0.0	-0.1	0.0	-0.1
P78+P80		825.03	46.60	22.5	21.7	0	0	0	0	0.0	-0.5	0.0	-0.5
P76+P79+P82		2030.76	107.50	20.2	19.3	0	0	0	0	0.0	-0.1	0.2	0.0

Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.



PROJETO DE FUNDAÇÃO

OBRA:

PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO:

RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO:

PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

RESPONSÁVEL TÉCNICO:

RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

CONTEUDO:

- PLANTA DE CARGA.

ÁREA TOTAL CONSTRUÍDA:

1.174,15 m²

PRANCHA:

02/11

REVISÃO:

00

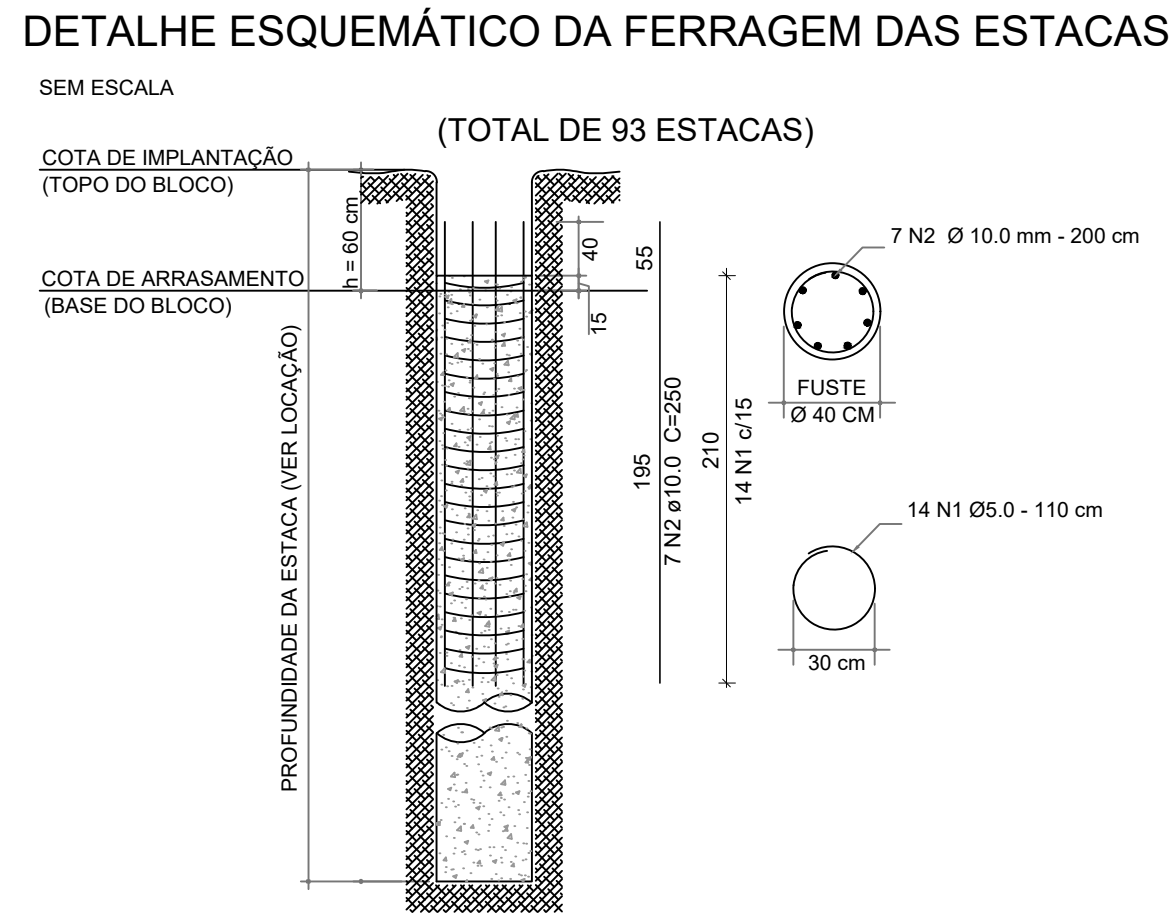
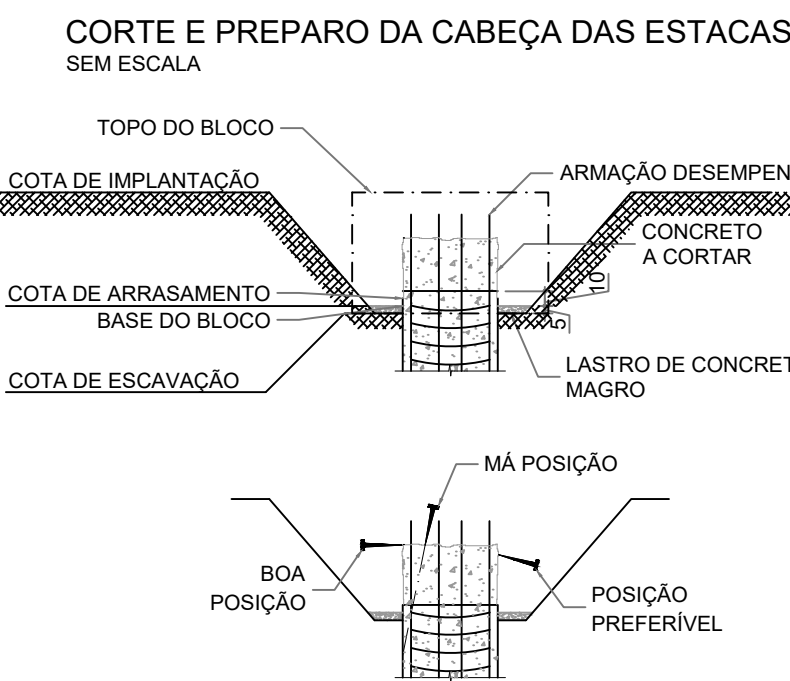
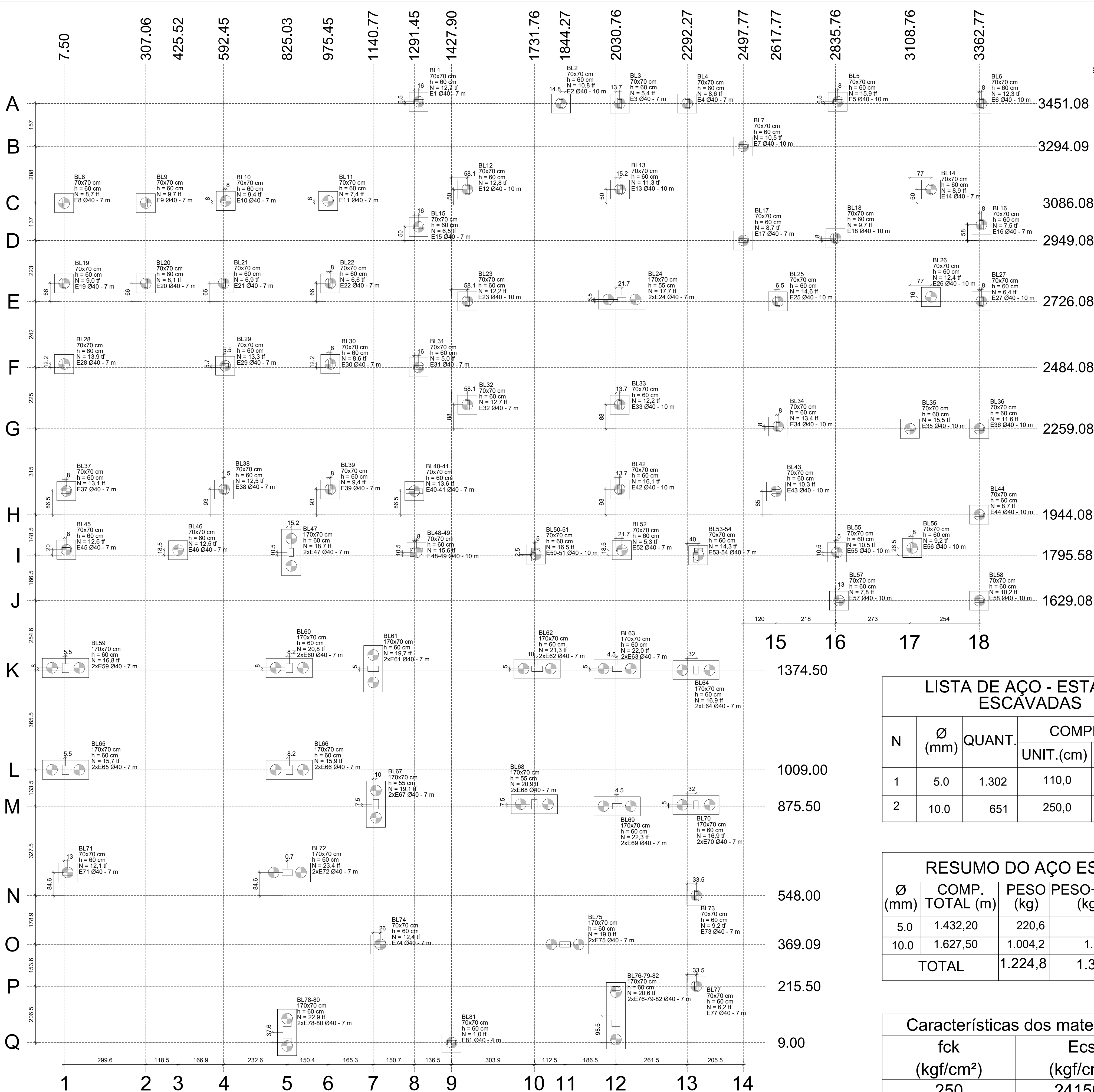
DATA:

SETEMBRO 2025

MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

Planta de cargas
escala 1:75



QUANTITATIVOS DAS ESTACAS ESCAVADAS

ESTACAS ESCAVADAS	DIÂM. (cm)	PROF. (m)	QUANT.	COMP. TOTAL (m)	VOLUME NOMINAL (m³)
E81	40	4,0	1	4,0	0,50
E3, E4, E8, E9, E10, E11, E14, E15, E16, E17, E19, E20, E21, E22, 2xE24, E28, E29, E30, E31, E32, E37, E38, E39, E45, E46, 2xE47, E52, 2xE59, 2xE60, 2xE61, 2xE63, 2xE64, 2xE65, 2xE66, 2xE67, 2xE68, 2xE69, 2xE70, E71, 2xE72, E73, E74, 2xE75, E77, E81, E40-41, E53-54, 2xE78-80, 2xE76-79-82.	40	7,0	67	469,0	58,94
E1, E2, E5, E6, E7, E12, E13, E18, E23, E25, E26, E27, E33, E34, E35, E36, E42, E43, E44, E55, E56, E57, E5, E48-49, E50-51.	40	10,0	25	250,0	31,42
TOTAL			93	723,0	90,7

NOTAS GERAIS

- TIPO DE FUNDAÇÃO: ESTACAS ESCAVADAS SEM FLÚIDO.
- EM CASO DE CHUVA NO INTERVALO ENTRE A PERFURAÇÃO E A CONCRETAGEM, AS ESTACAS DEVERÃO SER REPERFURADAS, ATINGINDO 1,0 m A MAIS QUE A PROFUNDIDADE PREVISTA EM PROJETO.
- É RESPONSABILIDADE DO EXECUTOR QUE AS ESTACAS SEJAM ESCAVADAS ATÉ A PROFUNDIDADE INDICADA NO PROJETO. DIFICULDADES EM ATINGIR OS COMPRIMENTOS DEVEM SER IMEDIATAMENTE COMUNICADAS AO PROJETISTA.
- AS ESTACAS DEVERÃO SER EMBUTIDAS NO MÍNIMO 10 cm NO BLOCO DE COROAMENTO.
- A ARMADURA (AÇOS CA-50 E CA-60) DEVE SER INTRODUZIDA NO FURO ANTES DA CONCRETAGEM.
- A CONCRETAGEM DAS ESTACAS DEVE SER FEITA NO MESMO DIA DA PERFURAÇÃO, LOGO APÓS SUA LIBERAÇÃO.
- TOLERÂNCIA MÁXIMA ADMITIDA: EXCENTRICIDADE = 10% DO DIÂMETRO DA ESTACA E DESVIO DE PRUMO = 1% DO COMPRIMENTO DA ESTACA.
- PARA CONCRETAGENS ACIMA DE 4,0 m DEVERÁ SER PREVISTO O USO DE DISPOSITIVOS QUE CONDUZAM O CONCRETO (FUNIS, CALHAS, TREMONHAS), MINIMIZANDO A SEGREGAÇÃO.
- O CONCRETO A SER UTILIZADO DEVE SER CLASSE C25 (fck 25).
- A EXECUÇÃO DAS ESTACAS DEVE ATENDER ÀS PRESCRIÇÕES DAS NBR 6122/2019 (FUNDAÇÕES) E NBR 6118/2023 (ESTRUTURAS DE CONCRETO).
- A EXECUÇÃO DA FUNDAÇÃO DEVERÁ SER ACOMPANHADA POR ENGENHEIRO CIVIL HABILITADO, COM ART REGISTRADA.
- A LOCAÇÃO DAS ESTACAS DEVERÁ SER REALIZADA POR PROFISSIONAL HABILITADO, DE ACORDO COM O PROJETO EXECUTIVO, E DEVIDAMENTE CONFERIDA ANTES DA EXECUÇÃO.

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO: Projeto e detalhamento das estacas; Lista de materiais.

ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

PRANCHA:

03/11



MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

LISTA DE AÇO - ESTACAS ESCAVADAS

N	Ø (mm)	QUANT.	COMPRIMENTO	
			UNIT.(cm)	TOTAL(m)
1	5.0	1.302	110,0	1.432,20
2	10.0	651	250,0	1.627,50

RESUMO DO AÇO ESTACAS

Ø (mm)	COMP. TOTAL (m)	PESO (kg)	PESO+10% (kg)	BARRAS (12 m)
5.0	1.432,20	220,6	242,6	120
10.0	1.627,50	1.004,2	1.104,6	136
TOTAL		1.224,8	1.347,2	0

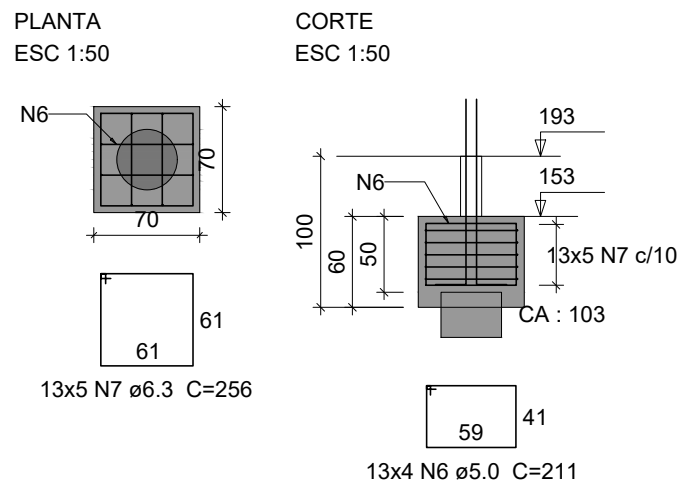
Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

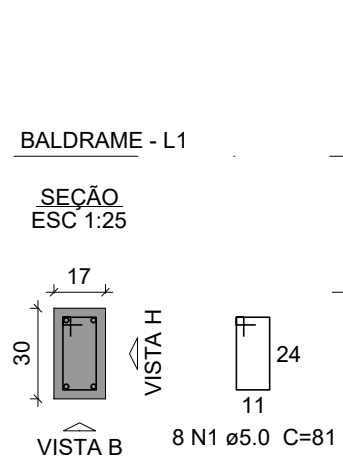
Dimensão máxima do agregado = 19 mm

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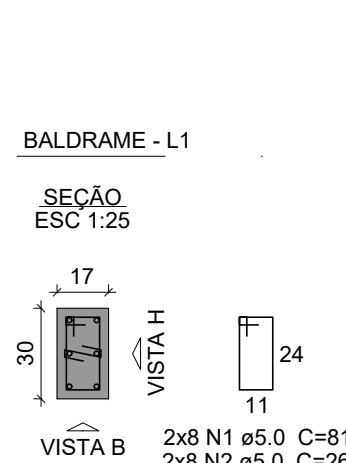
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1xC9



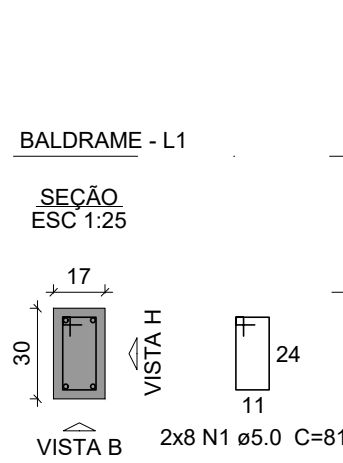
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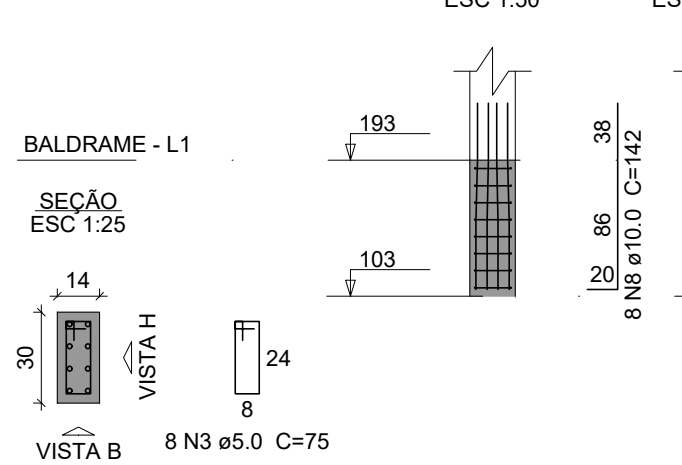
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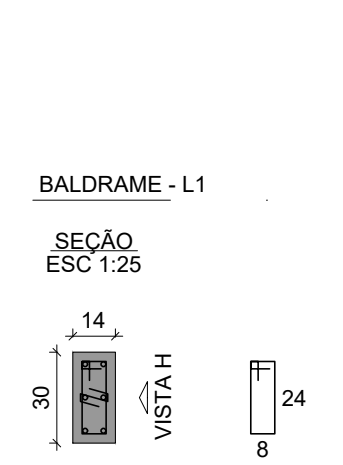
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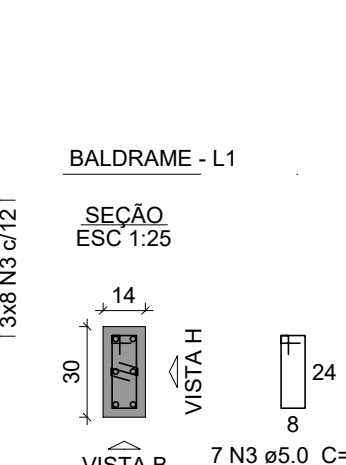
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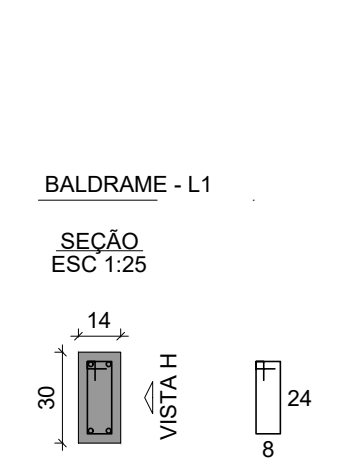
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P6

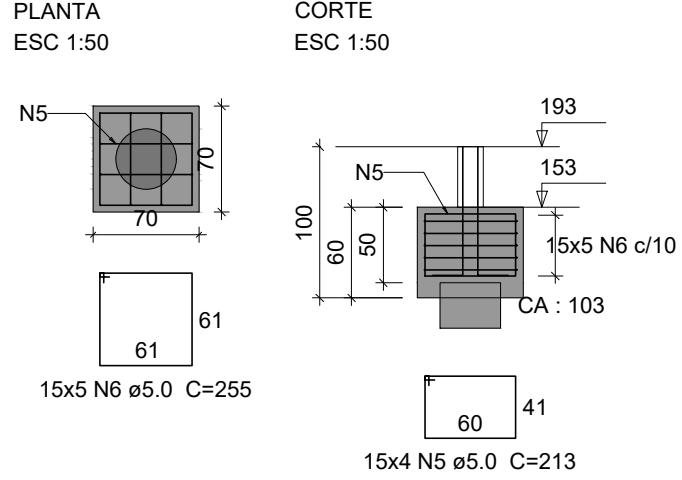


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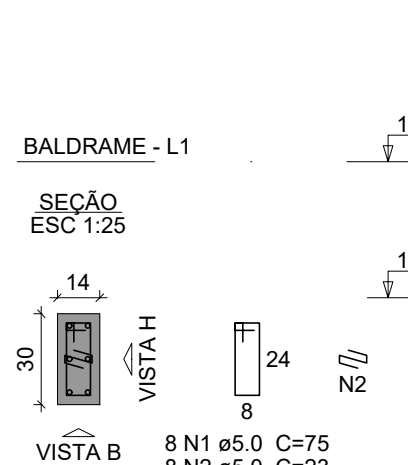


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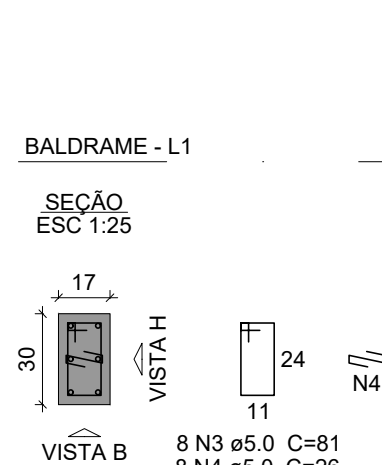
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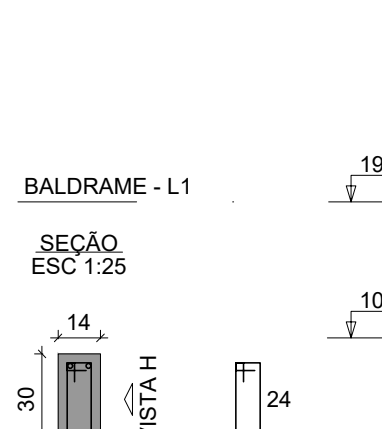
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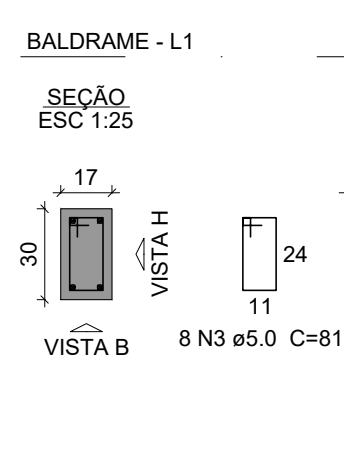
P4



P3=P8=P11=P15=P17=P20=P21=
=P22=P30=P31=P52=P77

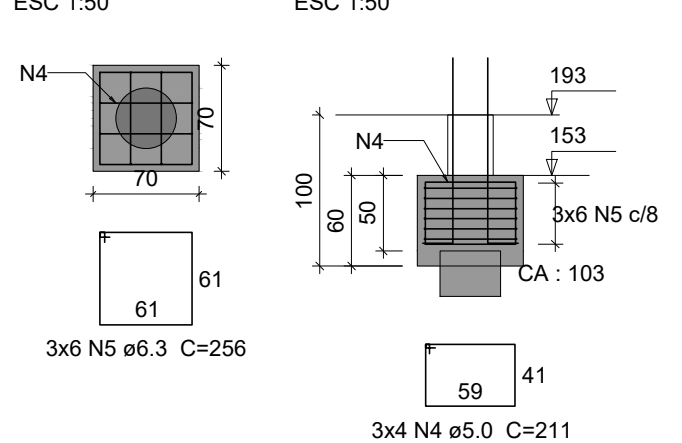


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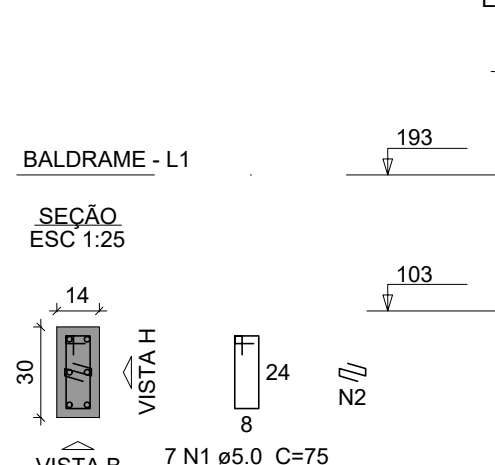


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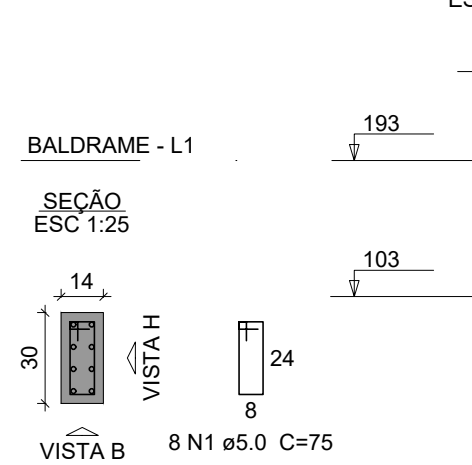
1xC9



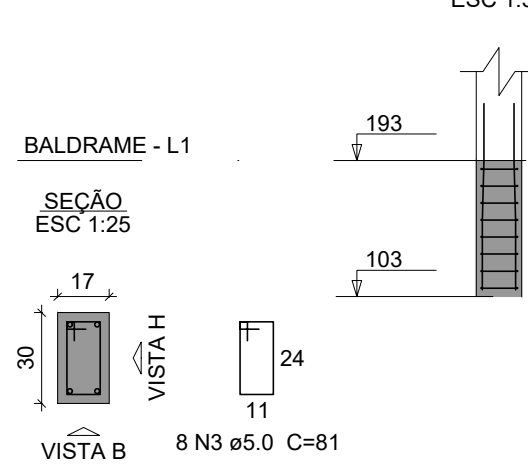
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P42

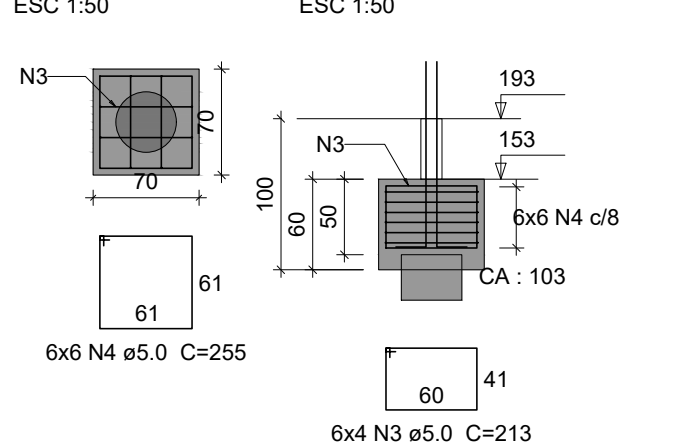


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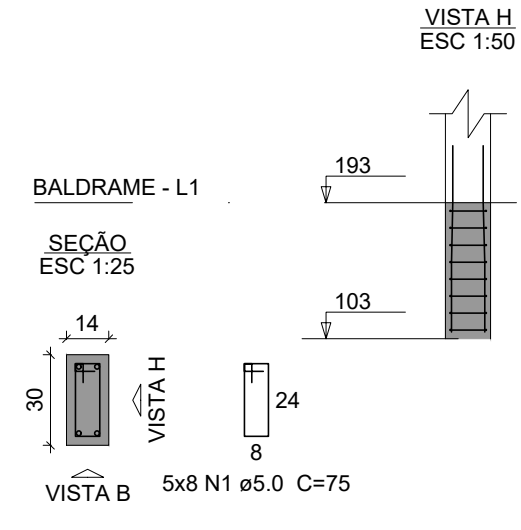


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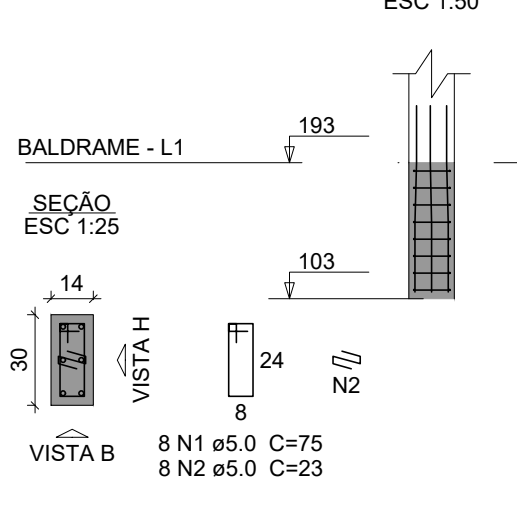
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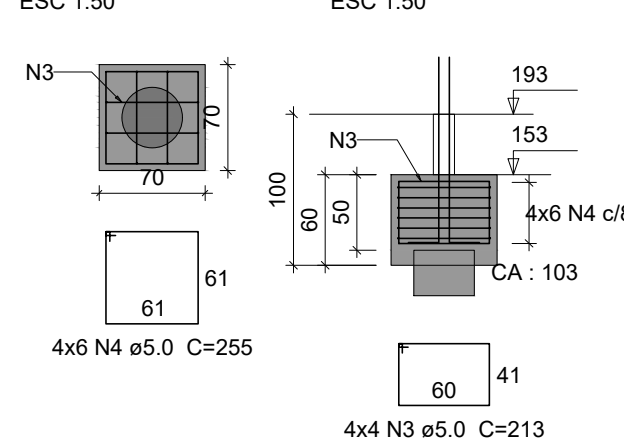


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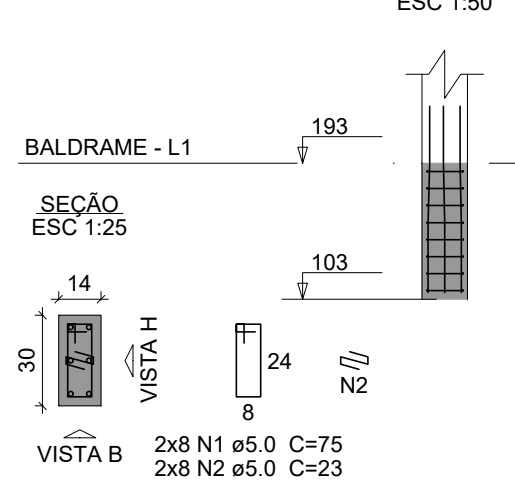


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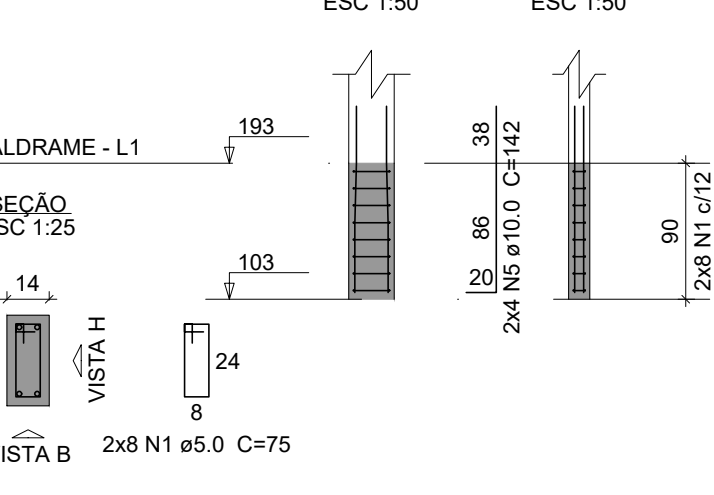
1xC9



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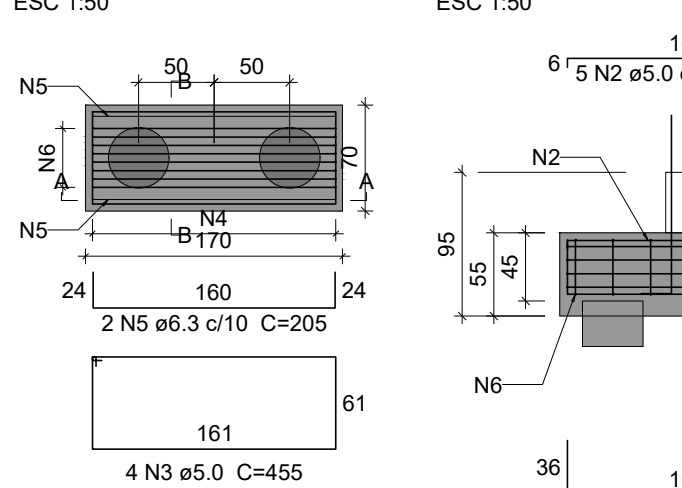


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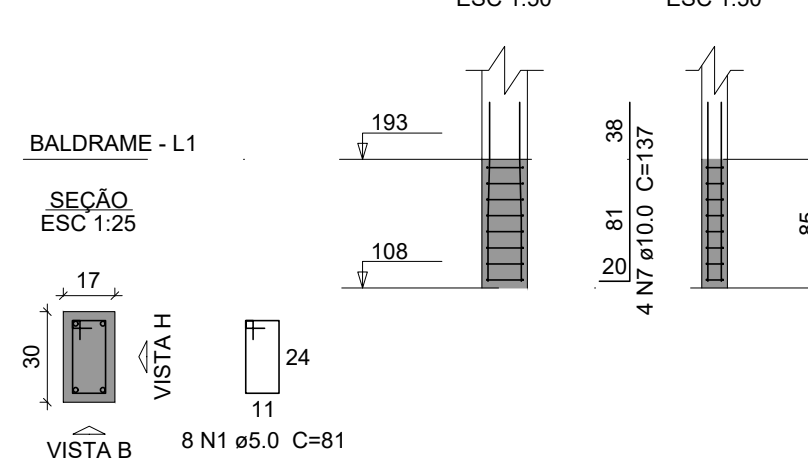


B24

2xC40

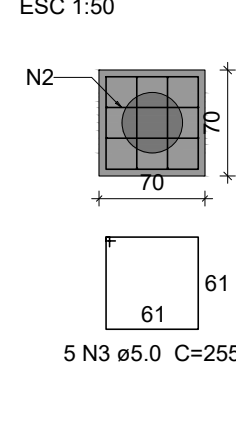


P24

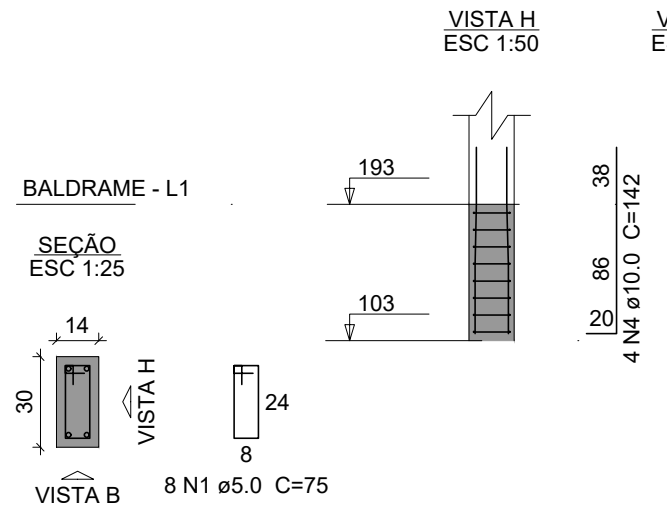


B27=B44=B57

1xC9



P27=P44=P57



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
B24	CA60	1	5.0	8	81	648
	CA60	2	5.0	5	169	845
	CA60	3	5.0	4	455	1820
	CA60	4	5.0	7	203	1421
	CA50	5	6.3	2	205	410
B42	CA50	6	8.0	8	228	1824
	CA50	7	10.0	4	137	548
	CA60	1	5.0	15	75	1125
	CA60	2	5.0	7	23	161
	CA60	3	5.0	8	81	648
B55	CA60	4	5.0	12	211	2532
	CA50	5	6.3	18	256	4608
	CA50	6	10.0	12	142	1704
	CA50	7	12.5	6	150	900
	CA60	1	5.0	40	81	3240
3xB57	CA60	2	5.0	16	26	416
	CA60	3	5.0	63	75	4725
	CA60	4	5.0	24	23	552
	CA60	5	5.0	7	23	161
	CA60	6	5.0	52	211	10972
B58	CA50	7	6.3	65	256	16640
	CA50	8	10.0	62	142	8804
	CA50	9	12.5	6	150	900
	CA60	1	5.0	24	75	1800
	CA60	2	5.0	12	213	2556
B73	CA60	3	5.0	15	255	3625
	CA50	4	10.0	12	142	1704
	CA60	1	5.0	32	75	2400
	CA60	2	5.0	16	23	368
	CA60	3	5.0	16	213	3408
B81	CA60	4	5.0	24	255	6120
	CA50	5	10.0	20	142	2840
	CA60	1	5.0	48	75	3600
	CA60	2	5.0	8	23	184
	CA60	3	5.0	24	213	5112
B81	CA60	4	5.0	36	255	9180
	CA50	5	10.0	26	142	3692
	CA60	1	5.0	104	75	7800
	CA60	2	5.0	8	23	194
	CA60	3	5.0	16	81	1296
B81	CA60	4	5.0	8	26	208
	CA60	5	5.0	60	213	12780
	CA60	6	5.0	75	255	19125
	CA50	7	10.0	60	142	8520
	CA50	8	10.0	4	100	400

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	216.6	58.3
	8.0	18.3	7.9
	10.0	282.2	191.3
	12.5	18	19.1
CA60	5.0	1092.2	185.2
PESO TOTAL (kg)			
CA50	276.6		
CA60	185.2		

Volume de concreto (C-25) = 13.8 m³
Área de forma = 92.62 m²

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:
RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento dos blocos de coroamento 01/03
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

PRANCHA:

04/11

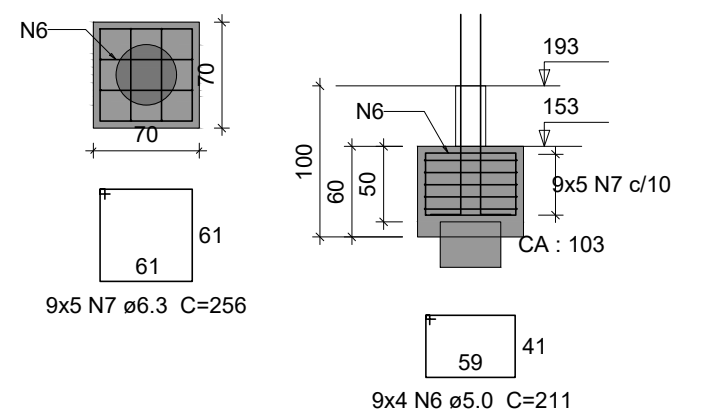


PROCURADORIA-GERAL DE JUSTIÇA

B28=B29=B32=B37=B38=B45=B46=B71=B74

1xC40

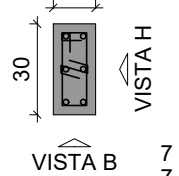
PLANTA
ESC 1:50



P28

BALDRAME - L1

SEÇÃO
ESC 1:25



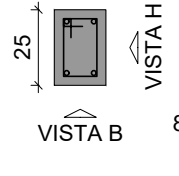
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P29

BALDRAME - L1

SEÇÃO
ESC 1:25



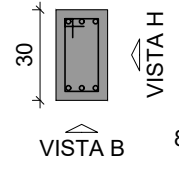
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P37

BALDRAME - L1

SEÇÃO
ESC 1:25



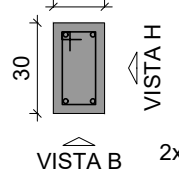
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P32=P38

BALDRAME - L1

SEÇÃO
ESC 1:25



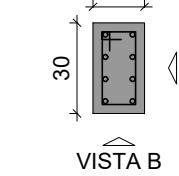
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P45

BALDRAME - L1

SEÇÃO
ESC 1:25



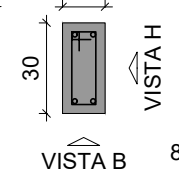
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P46

BALDRAME - L1

SEÇÃO
ESC 1:25



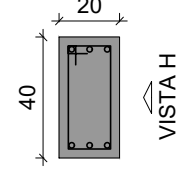
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P71=P74

BALDRAME - L1

SEÇÃO
ESC 1:25



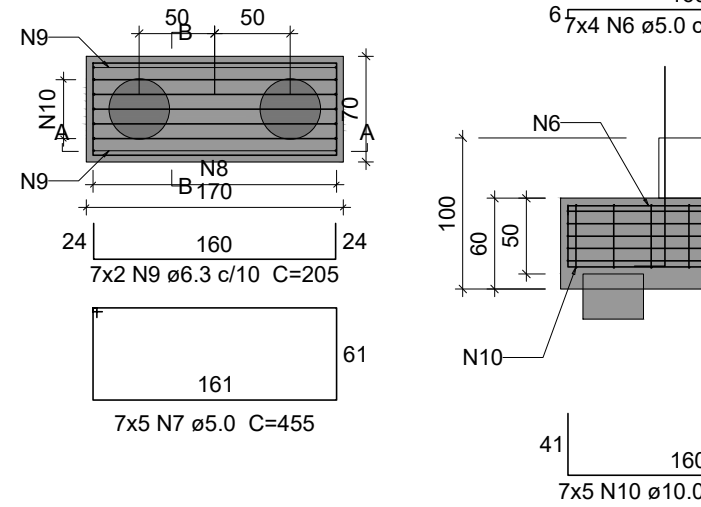
VISTA H
ESC 1:50

VISTA B
ESC 1:50

B47=B59=B64=B65=B66=B70=B75

2xC40

PLANTA
ESC 1:50



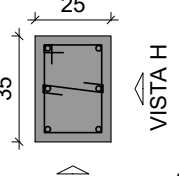
CORTE A-A
ESC 1:50

CORTE B-B
ESC 1:50

P59

BALDRAME - L1

SEÇÃO
ESC 1:25



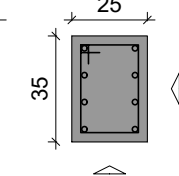
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VISTA B
ESC 1:50

P65=P66

BALDRAME - L1

SEÇÃO
ESC 1:25



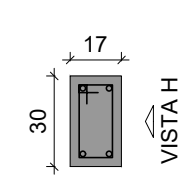
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P47=P64=P70

BALDRAME - L1

SEÇÃO
ESC 1:25



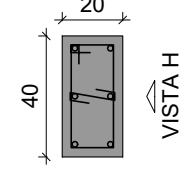
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P75

BALDRAME - L1

SEÇÃO
ESC 1:25



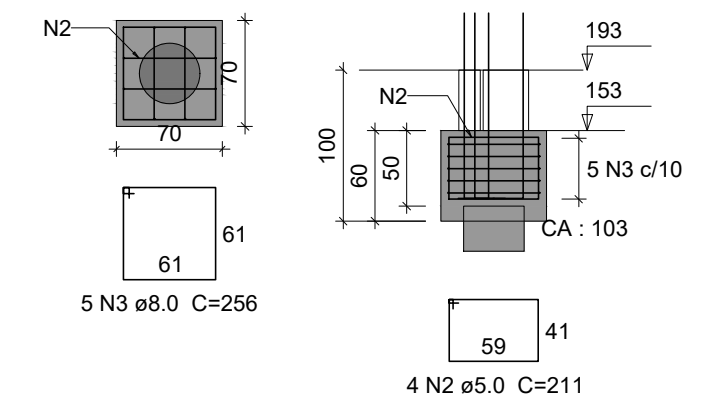
VISTA H
ESC 1:50

VISTA B
ESC 1:50

B48-49

1xC9

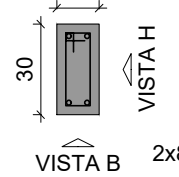
PLANTA
ESC 1:50



P48=P49

BALDRAME - L1

SEÇÃO
ESC 1:25



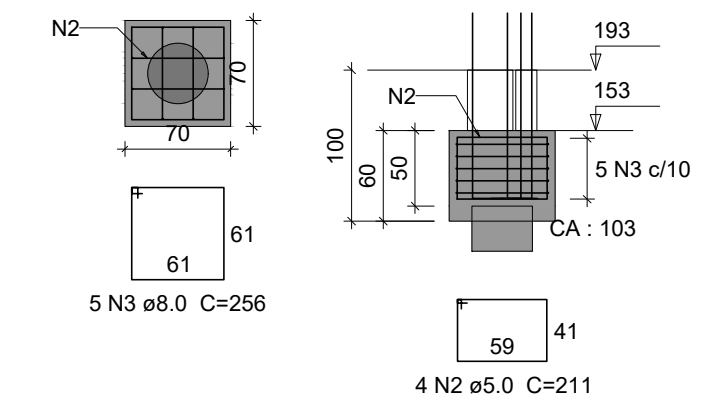
VISTA H
ESC 1:50

VISTA B
ESC 1:50

B50-51

1xC9

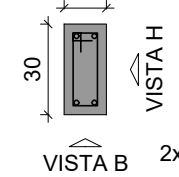
PLANTA
ESC 1:50



P50=P51

BALDRAME - L1

SEÇÃO
ESC 1:25



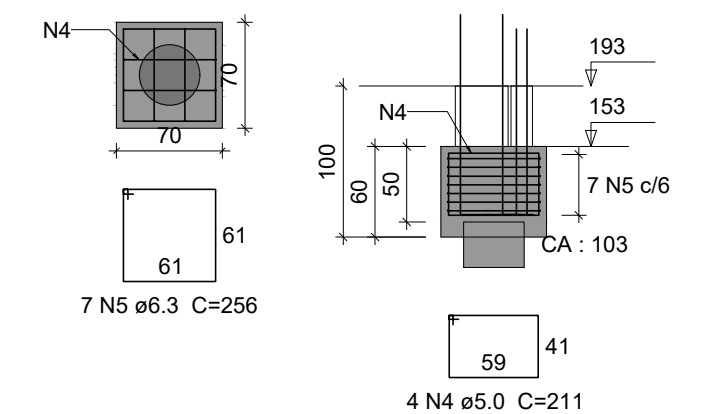
VISTA H
ESC 1:50

VISTA B
ESC 1:50

B53-54

1xC40

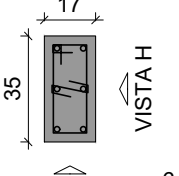
PLANTA
ESC 1:50



P53

BALDRAME - L1

SEÇÃO
ESC 1:25



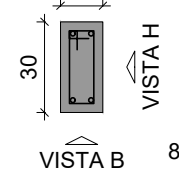
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P54

BALDRAME - L1

SEÇÃO
ESC 1:25



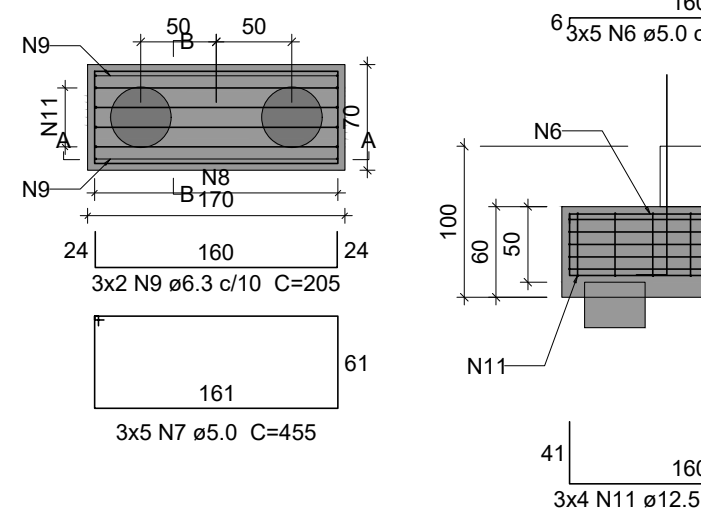
VISTA H
ESC 1:50

VISTA B
ESC 1:50

B60=B63=B72

2xC40

PLANTA
ESC 1:50



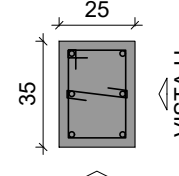
CORTE A-A
ESC 1:50

CORTE B-B
ESC 1:50

P60

BALDRAME - L1

SEÇÃO
ESC 1:25



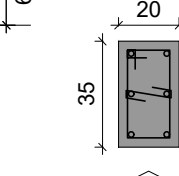
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P63

BALDRAME - L1

SEÇÃO
ESC 1:25



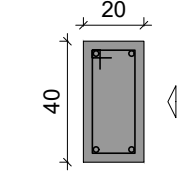
VISTA H
ESC 1:50

VISTA B
ESC 1:50

P72

BALDRAME - L1

SEÇÃO
ESC 1:25



VISTA H
ESC 1:50

VISTA B
ESC 1:50

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
B72	CA60	1	5.0	6	107	642
	CA60	2	5.0	6	34	204
	CA60	3	5.0	6	97	582
	CA60	4	5.0	6	29	174
	CA60	5	5.0	6	107	642
	CA60	6	5.0	15	169	2535
	CA60	7	5.0	15	455	6825
	CA60	8	5.0	21	213	4473
	CA50	9	6.3	6	205	1230
	CA50	10	12.5	16	150	2400
B74	CA50	11	12.5	12	236	2832
	CA60	1	5.0	15	75	1125
	CA60	2	5.0	7	23	161
	CA60	3	5.0	8	71	568
	CA60	4	5.0	32	81	2592
	CA60	5	5.0	12	107	1284
	CA60	6	5.0	36	211	7596
	CA50	7	6.3	45	256	11520
	CA50	8	10.0	30	142	4260
	CA50	9	12.5	18	150	2700
B75	CA60	1	5.0	18	107	1926
	CA60	2	5.0	6	34	204
	CA60	3	5.0	18	81	1458
	CA60	4	5.0	6	107	642
	CA60	5	5.0	6	29	174
	CA60	6	5.0	28	169	4732
	CA60	7	5.0	35	455	15925
	CA60	8	5.0	49	213	10437
	CA50	9	6.3	14	205	2870
	CA50	10	10.0	35	237	8295
B48-49	CA50	11	12.5	40	150	6000
	CA60	1	5.0	16	75	1200
	CA60	2	5.0	4	211	844
	CA50	3	8.0	5	256	1280
	CA60	4	10.0	8	142	1136
	CA60	1	5.0	6	91	546
	CA60	2	5.0	6	26	156
	CA60	3	5.0	8	75	600
	CA60	4	5.0	4	211	844
	CA50	5	6.3	7	256	1792
B50-51	CA50	6	10.0	4	142	568
	CA50	7	12.5	6	150	900
B53-54	CA50	1	5.0	16	75	1200
	CA60	2	5.0	4	211	844
	CA50	3	8.0	5	256	1280
	CA60	4	10.0	8	142	1136
	CA60	1	5.0	6	91	546
	CA60	2	5.0	6	26	156
	CA60	3	5.0	8	75	600
	CA60	4	5.0	4	211	844
	CA50	5	6.3	7	256	1792
	CA50	6	10.0	4	142	568

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	174.2	46.9
CA50	8.0	25.6	11.1
CA50	10.0	154	104.4
CA50	12.5	148.4	157.2
CA60	5.0	711.4	120.6
PESO TOTAL (kg)			
CA50	319.6		
CA60	120.6		

Volume de concreto (C-25) = 10.86 m³
Área de forma = 59.09 m²

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento dos blocos de coroamento 02/03
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

PRANCHA:

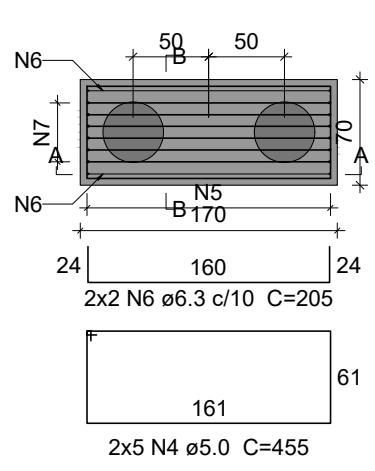
05/11



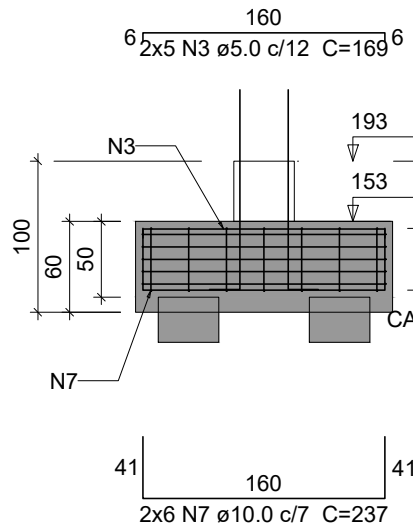
PROCURADORIA-GERAL DE JUSTIÇA

B61=B62
2xC40

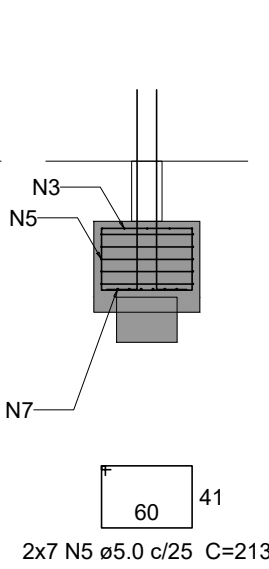
PLANTA
ESC 1:50



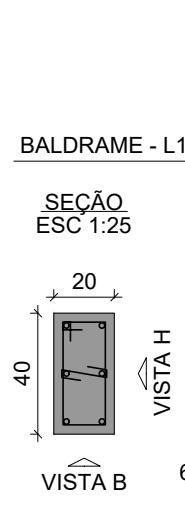
CORTE A-A
ESC 1:50



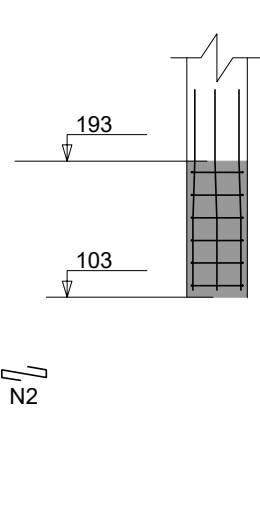
CORTE B-B
ESC 1:50



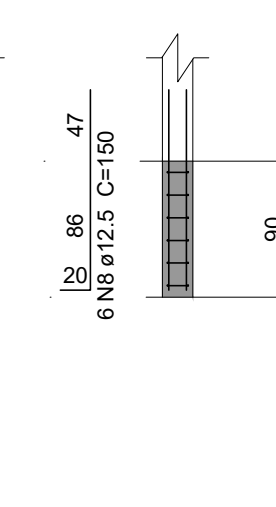
P61



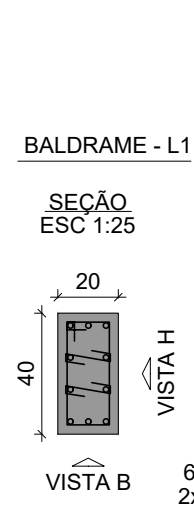
VISTA H
ESC 1:50



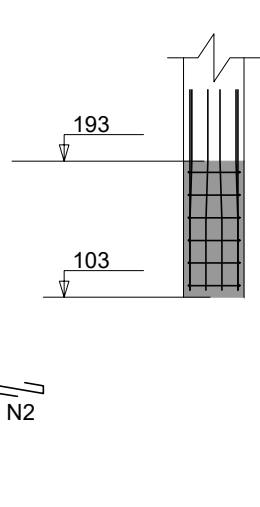
VISTA B
ESC 1:50



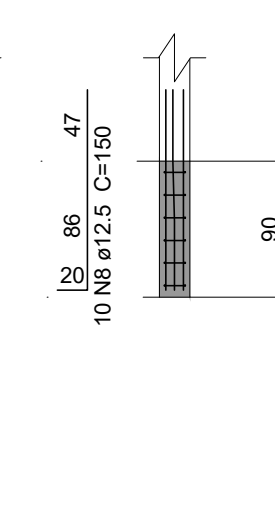
P62



VISTA H
ESC 1:50

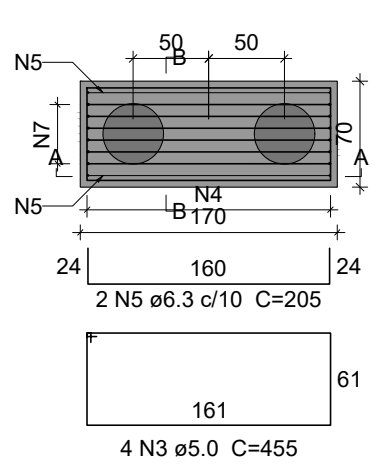


VISTA B
ESC 1:50

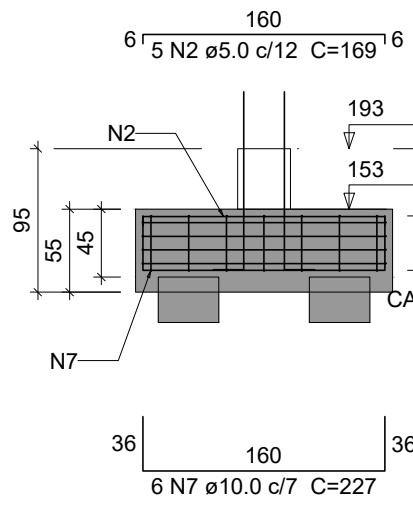


B67
2xC40

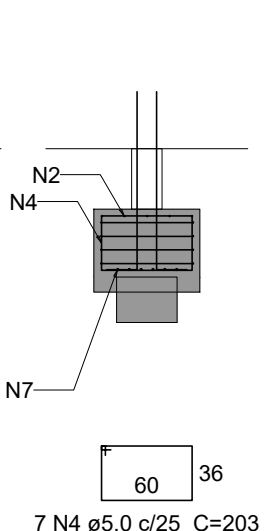
PLANTA
ESC 1:50



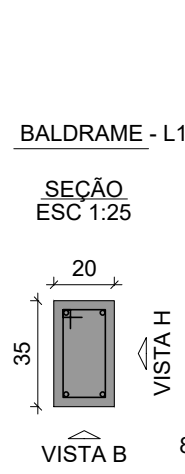
CORTE A-A
ESC 1:50



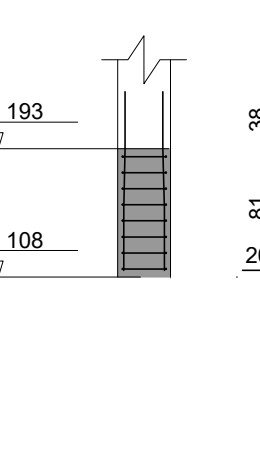
CORTE B-B
ESC 1:50



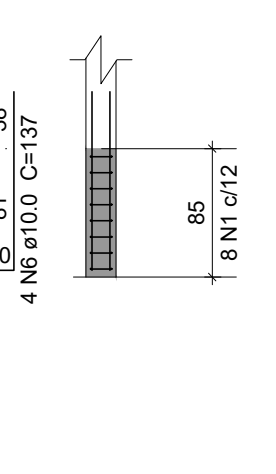
P67



VISTA H
ESC 1:50

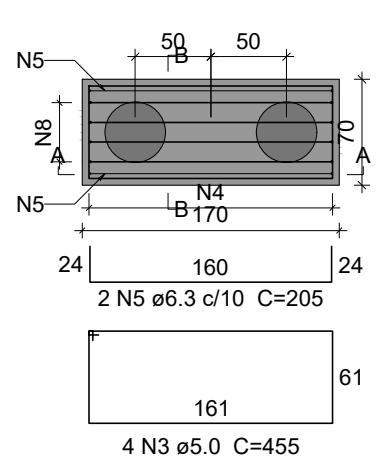


VISTA B
ESC 1:50

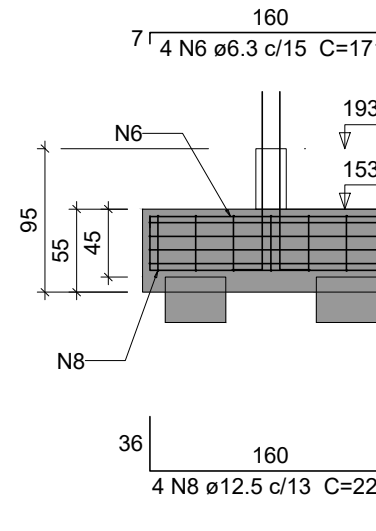


B68
2xC40

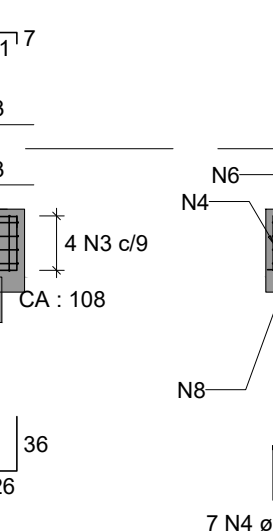
PLANTA
ESC 1:50



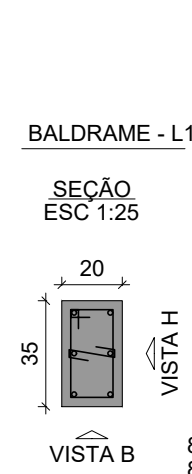
CORTE A-A
ESC 1:50



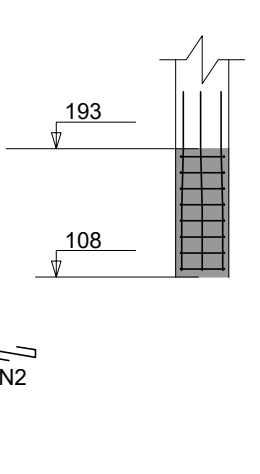
CORTE B-B
ESC 1:50



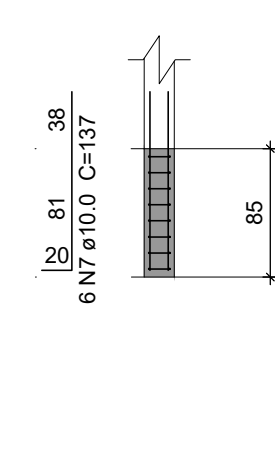
P68



VISTA H
ESC 1:50

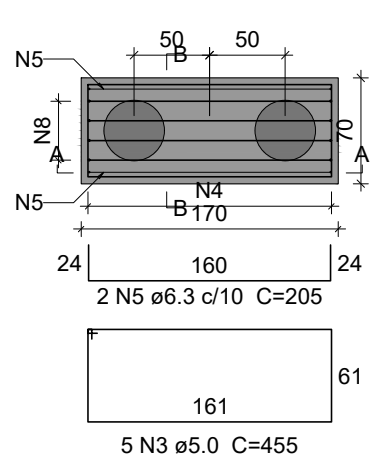


VISTA B
ESC 1:50

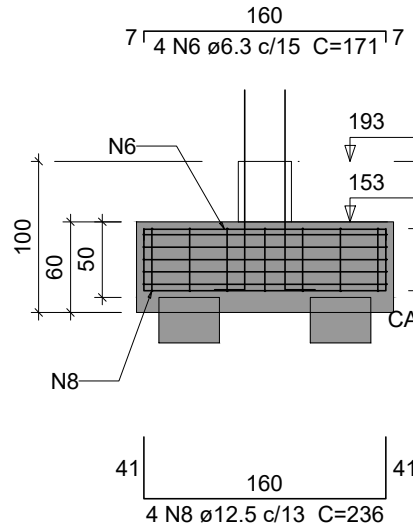


B69
2xC40

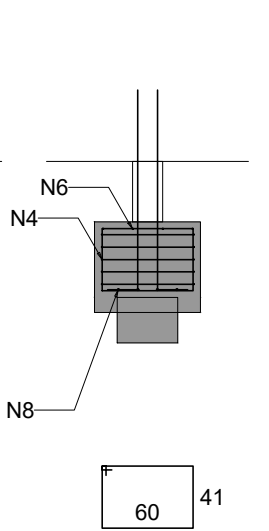
PLANTA
ESC 1:50



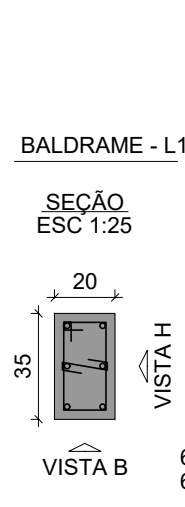
CORTE A-A
ESC 1:50



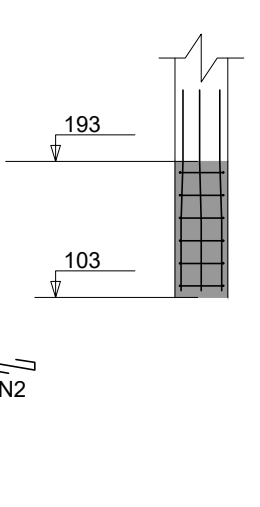
CORTE B-B
ESC 1:50



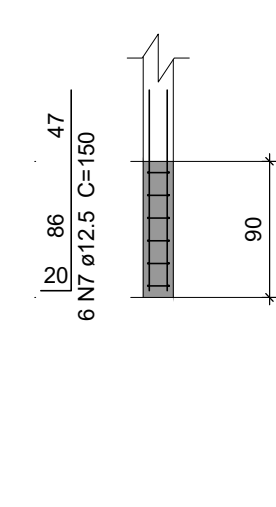
P69



VISTA H
ESC 1:50

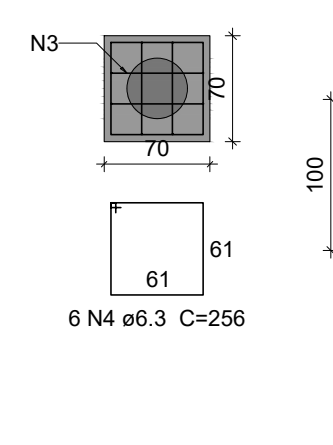


VISTA B
ESC 1:50

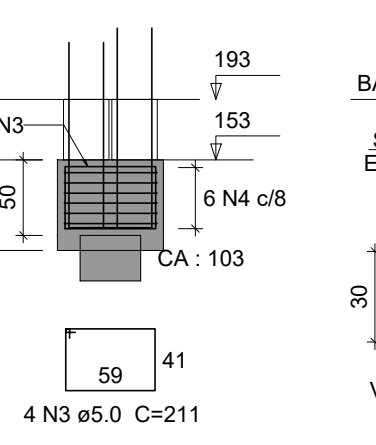


B40-41
1xC40

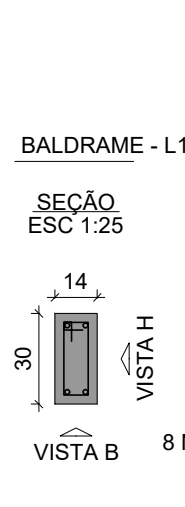
PLANTA
ESC 1:50



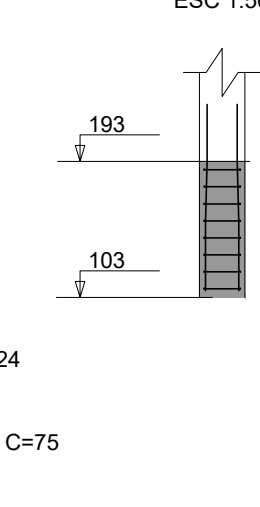
CORTE
ESC 1:50



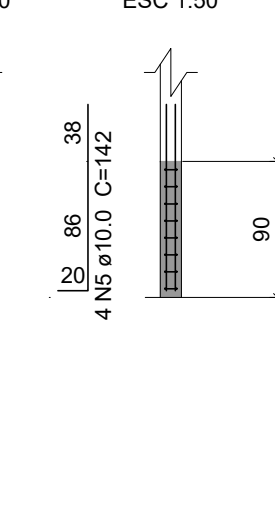
P40



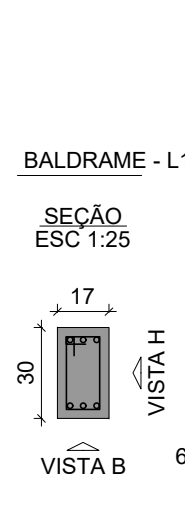
VISTA H
ESC 1:50



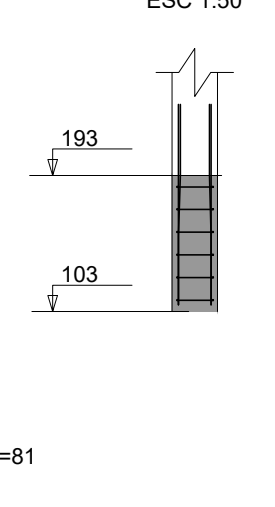
VISTA B
ESC 1:50



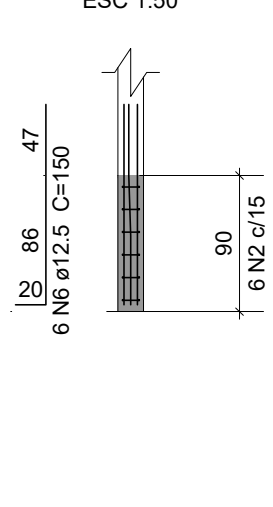
P41



VISTA H
ESC 1:50

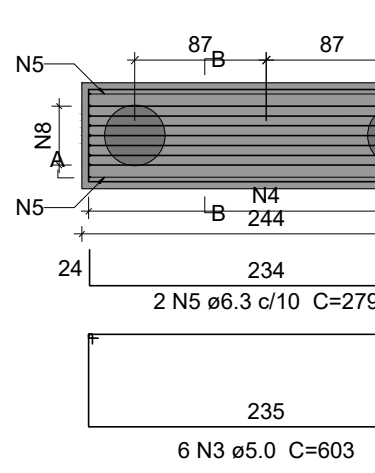


VISTA B
ESC 1:50

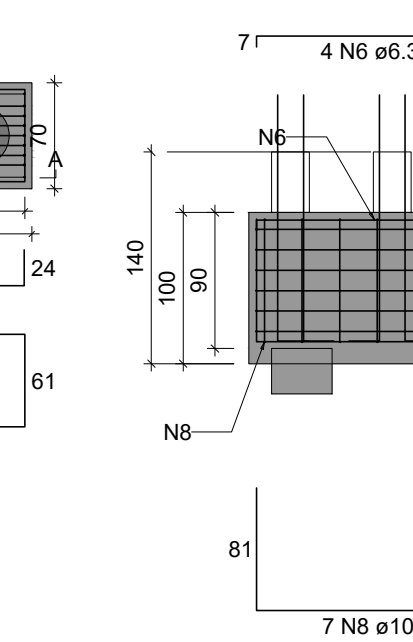


B76-79-82
2xC40

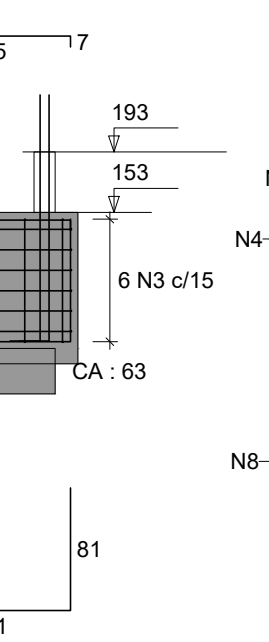
PLANTA
ESC 1:50



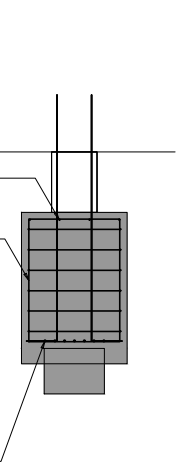
CORTE A-A
ESC 1:50



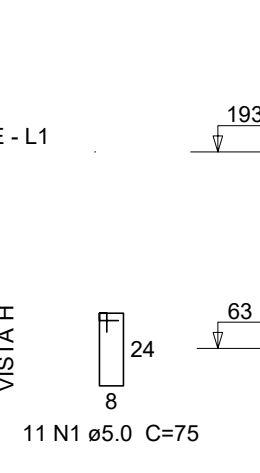
CORTE B-B
ESC 1:50



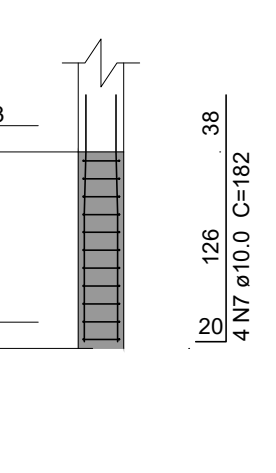
P76



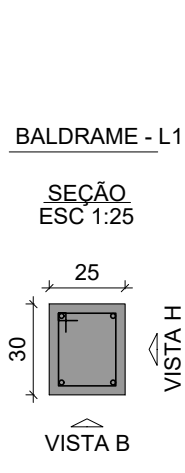
VISTA H
ESC 1:50



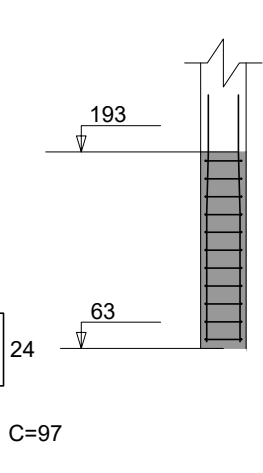
VISTA B
ESC 1:50



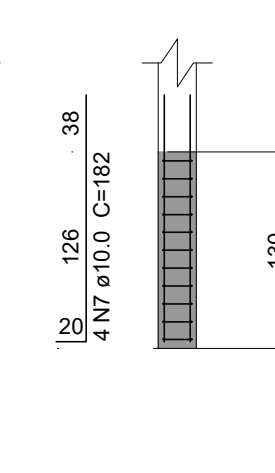
P79



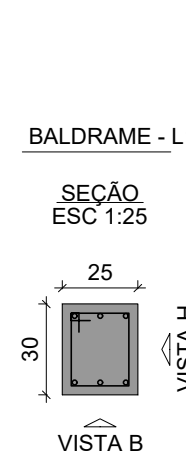
VISTA H
ESC 1:50



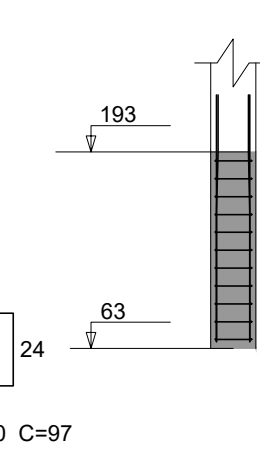
VISTA B
ESC 1:50



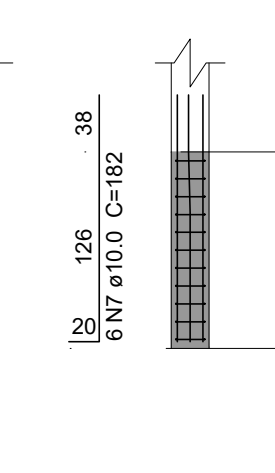
P82



VISTA H
ESC 1:50

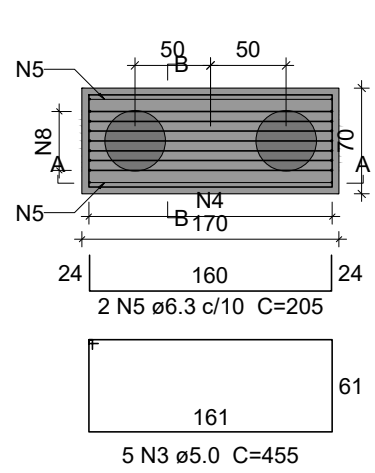


VISTA B
ESC 1:50

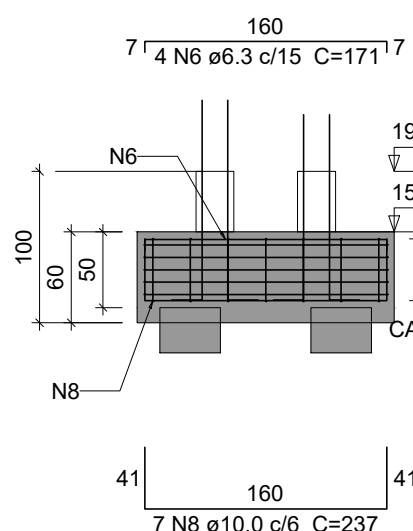


B78-80
2xC40

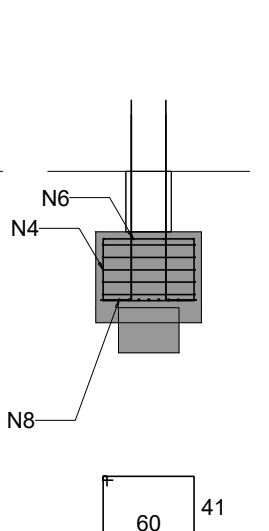
PLANTA
ESC 1:50



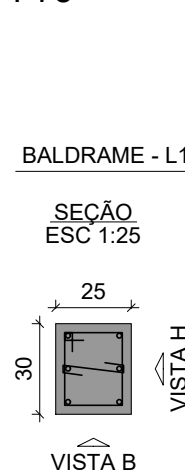
CORTE A-A
ESC 1:50



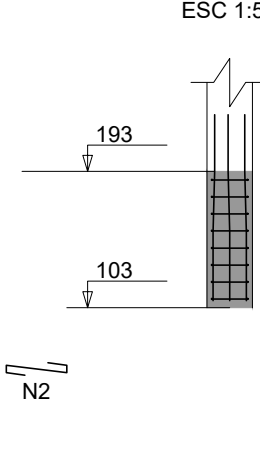
CORTE B-B
ESC 1:50



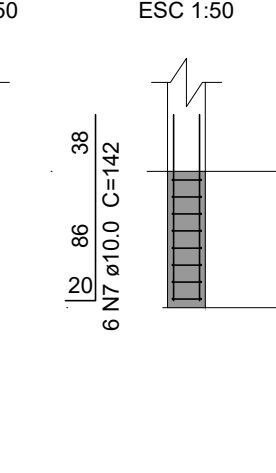
P78



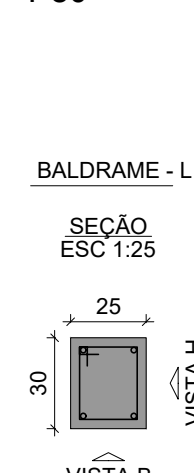
VISTA H
ESC 1:50



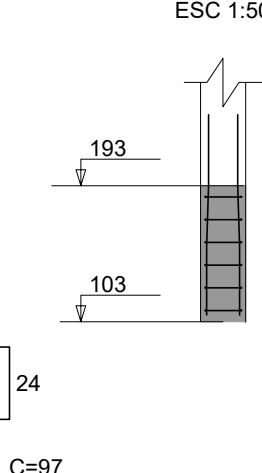
VISTA B
ESC 1:50



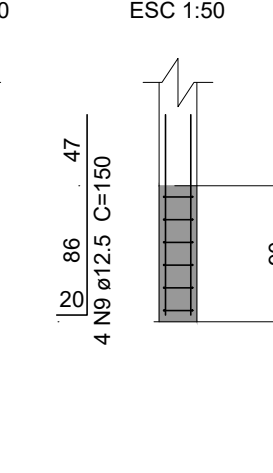
P80



VISTA H
ESC 1:50



VISTA B
ESC 1:50



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
B62	CA60	1	5.0	12	107	1284
	CA60	2	5.0	18	29	522
	CA60	3	5.0	10	169	1690
	CA60	4	5.0	10	455	4550
	CA60	5	5.0	14	213	2982
	CA50	6	6.3	4	205	820
	CA50	7	10.0	12	237	2844
	CA50	8	12.5	16	150	2400
	CA60	1	5.0	8	97	776
	CA60	2	5.0	5	169	845
B67	CA60	3	5.0	4	455	1820
	CA60	4	5.0	7	203	1421
	CA50	5	6.3	2	205	410
	CA50	6	10.0	4	137	548
	CA50	7	10.0	6	227	1362
	CA60	1	5.0	8	97	776
	CA60	2	5.0	8	29	232
	CA60	3	5.0	4	455	1820
	CA50	4	5.0	7	203	1421
	CA50	5	6.3	2	205	410
B68	CA50	6	6.3	4	171	684
	CA50	7	10.0	6	137	822
	CA50	8	12.5	4	226	904
	CA60	1	5.0	6	97	582
	CA60	2	5.0	6	29	174
	CA60	3	5.0	5	455	2275
	CA60	4	5.0	7	213	1491
	CA50	5	6.3	2	205	410
	CA50	6	6.3	4	171	684
	CA50	7	10.0	6	142	852
B69	CA50	8	10.0	7	237	1659
	CA50	9	12.5	4	150	600
	CA60	1	5.0	11	75	825
	CA60	2	5.0	22	97	2134
	CA60	3	5.0	6	603	3618
	CA60	4	5.0	10	293	2930
	CA50	5	6.3	2	279	558
	CA50	6	6.3	4	245	980
	CA50	7	10.0	14	182	2548
	CA50	8	10.0	7	391	2737

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	75.9	20.4
CA50	10.0	139.4	94.5
CA50	12.5	66.5	70.4
CA60	5.0	415	70.4
PESO TOTAL (kg)			
CA50		185.4	
CA60		70.4	

Volume de concreto (C-25) = 6.3 m³
Área de forma = 29.88 m²

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:

RESPONSÁVEL TÉCNICO:

RENOATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

CONTEÚDO: - Detalhamento dos blocos de coroamento 03/03
- Lista de materiais.

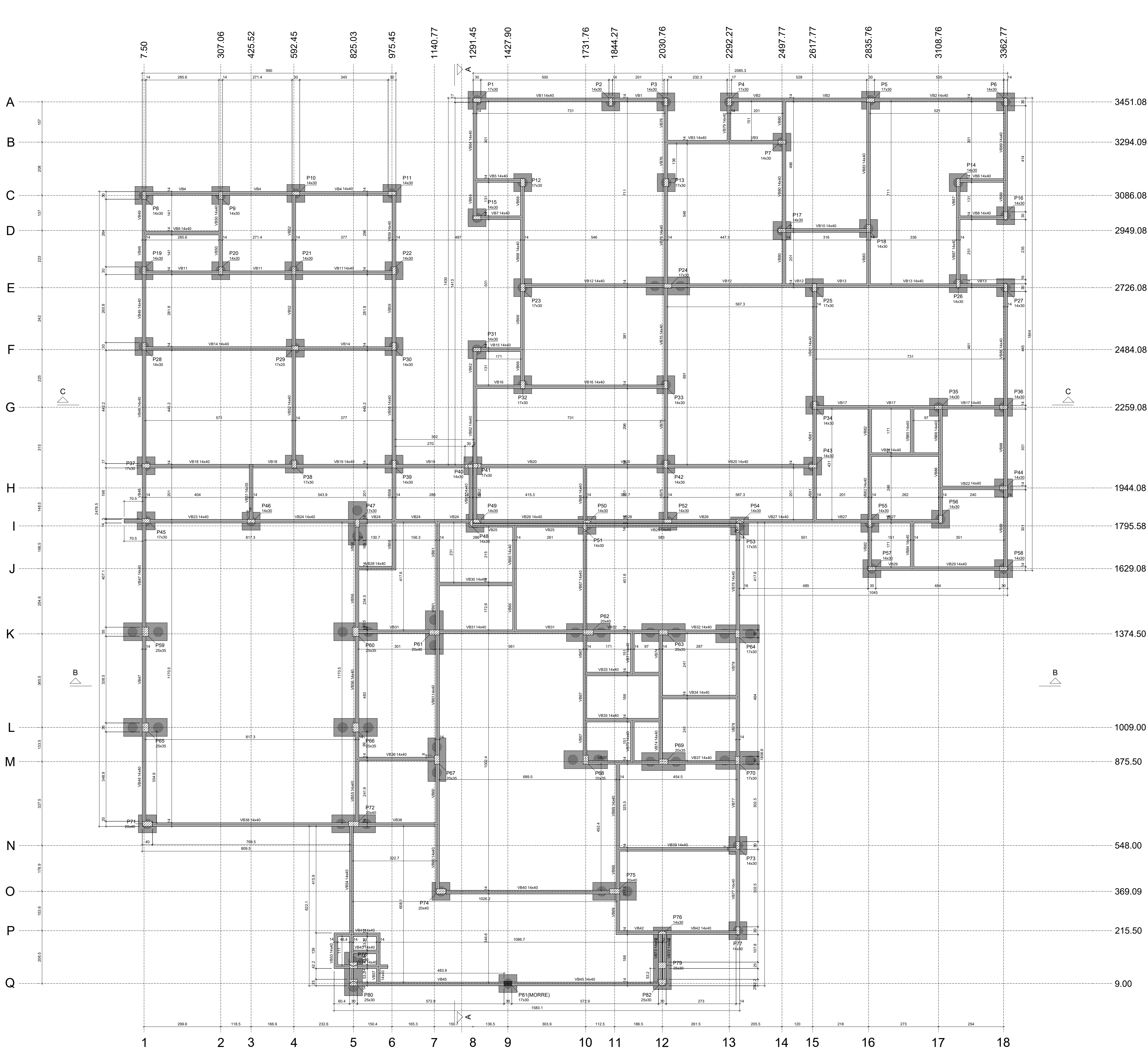
ESCALA: INDICADA

ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²
REVISÃO: 00
DATA: SETEMBRO 2025

PRANCHA: 06/11



PROCURADORIA-GERAL DE JUSTIÇA



Legenda dos pilares

Pilar que morre

Pilar que passa

Legenda das vigas e paredes

Viga

Características dos materiais

fck
(kgf/cm²)

Ecs
(kgf/cm²)

250

241500

Dimensão máxima do agregado = 19 mm

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	14x40	0	193
VB2	14x40	0	193
VB3	14x40	0	193
VB4	14x40	0	193
VB5	14x40	0	193
VB6	14x40	0	193
VB7	14x40	0	193
VB8	14x40	0	193
VB9	14x40	0	193
VB10	14x40	0	193
VB11	14x40	0	193
VB12	14x40	0	193
VB13	14x40	0	193
VB14	14x40	0	193
VB15	14x40	0	193
VB16	14x40	0	193
VB17	14x40	0	193
VB18	14x40	0	193
VB19	14x40	0	193
VB20	14x40	0	193
VB21	14x40	0	193
VB22	14x40	0	193
VB23	14x40	0	193
VB24	14x40	0	193
VB25	14x40	0	193
VB26	14x40	0	193
VB27	14x40	0	193
VB28	14x40	0	193
VB29	14x40	0	193
VB30	14x40	0	193
VB31	14x40	0	193
VB32	14x40	0	193
VB33	14x40	0	193
VB34	14x40	0	193
VB35	14x40	0	193
VB36	14x40	0	193
VB37	14x40	0	193
VB38	14x40	0	193
VB39	14x40	0	193
VB40	14x40	0	193
VB41	14x40	0	193
VB42	14x40	0	193
VB43	14x40	0	193
VB44	14x40	0	193
VB45	14x40	0	193
VB46	14x40	0	193
VB47	14x40	0	193
VB48	14x40	0	193
VB49	14x40	0	193
VB50	14x40	0	193
VB51	14x40	0	193
VB52	14x40	0	193
VB53	14x40	0	193
VB54	14x40	0	193
VB55	14x40	0	193
VB56	14x40	0	193
VB57	14x40	0	193
VB58	14x40	0	193
VB59	14x40	0	193
VB60	14x40	0	193
VB61	14x40	0	193
VB62	14x40	0	193
VB63	14x40	0	193
VB64	14x40	0	193
VB65	14x40	0	193
VB66	14x40	0	193
VB67	14x40	0	193
VB68	14x40	0	193
VB69	14x40	0	193
VB70	14x40	0	193
VB71	14x40	0	193
VB72	14x40	0	193
VB73	14x40	0	193
VB74	14x40	0	193
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VB76	14x40	0	193
VB77	14x40	0	193
VB78	14x40	0	193
VB79	14x40	0	193
VB80	14x40	0	193
VB81	14x40	0	193
VB82	14x40	0	193
VB83	14x40	0	193
VB84	14x40	0	193
VB85	14x40	0	193
VB86	14x40	0	193
VB87	14x40	0	193
VB88	14x40	0	193
VB89	14x40	0	193

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	17x30	0	193
P2	14x30	0	193
P3	14x30	0	193
P4	17x30	0	193
P5	17x30	0	193
P6	14x30	0	193
P7	14x30	0	193
P8	14x30	0	193
P9	14x30	0	193
P10	14x30	0	193
P11	14x30	0	193
P12	17x30	0	193
P13	17x30	0	193
P14	14x30	0	193
P15	14x30	0	193
P16	14x30	0	193
P17	14x30	0	193
P18	14x30	0	193
P19	14x30	0	193
P20	14x30	0	193
P21	14x30	0	193
P22	14x30	0	193
P23	17x30	0	193
P24	17x30	0	193
P25	17x30	0	193
P26	14x30	0	193
P27	14x30	0	193
P28	14x30	0	193
P29	17x25	0	193
P30	14x30	0	193
P31	14x30	0	193
P32	17x30	0	193
P33	14x30	0	193
P34	14x30	0	193
P35	14x30	0	193
P36	14x30	0	193
P37	17x30	0	193
P38	17x30	0	193
P39	14x30	0	193
P40	14x30	0	193
P41	17x30	0	193
P42	14x30	0	193
P43	14x30	0	193
P44	14x30	0	193
P45	17x30	0	193
P46	14x30	0	193
P47	17x30	0	193
P48	14x30	0	193
P49	14x30	0	193
P50	14x30	0	193
P51	14x30	0	193
P52	14x30	0	193
P53	17x35	0	193
P54	14x30	0	193
P55	14x30	0	193
P56	14x30	0	193
P57	14x30	0	193
P58	14x30	0	193
P59	25x35	0	193
P60	25x35	0	193
P61	20x40	0	193
P62	20x40	0	193
P63	20x35	0	193
P64	17x30	0	193
P65	25x35	0	193
P66	25x35	0	193
P67	20x35	0	193
P68	20x35	0	193
P69	20x35	0	193
P70	17x30	0	193
P71	14x40	0	193
P72	20x40	0	193
P73	14x30	0	193
P74	20x40	0	193
P75	20x40	0	193
P76	14x30	0	193
P77	14x30	0	193
P78	25x30	0	193
P79	25x30	0	193
P80	25x30	0	193
P81	17x30	0	193
P82	25x30	0	193

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO: Forma do Pavimento Baldrame.

ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²

PRANCHA: 07/11

REVISÃO: 00

ESCALA: INDICADA

DATA: SETEMBRO 2025

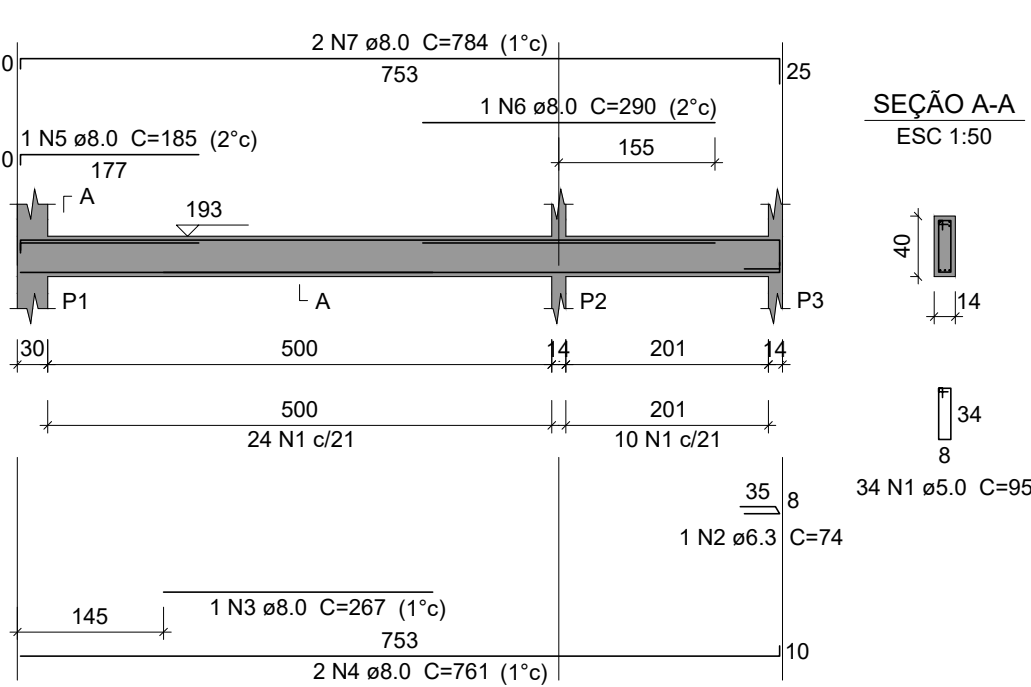
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

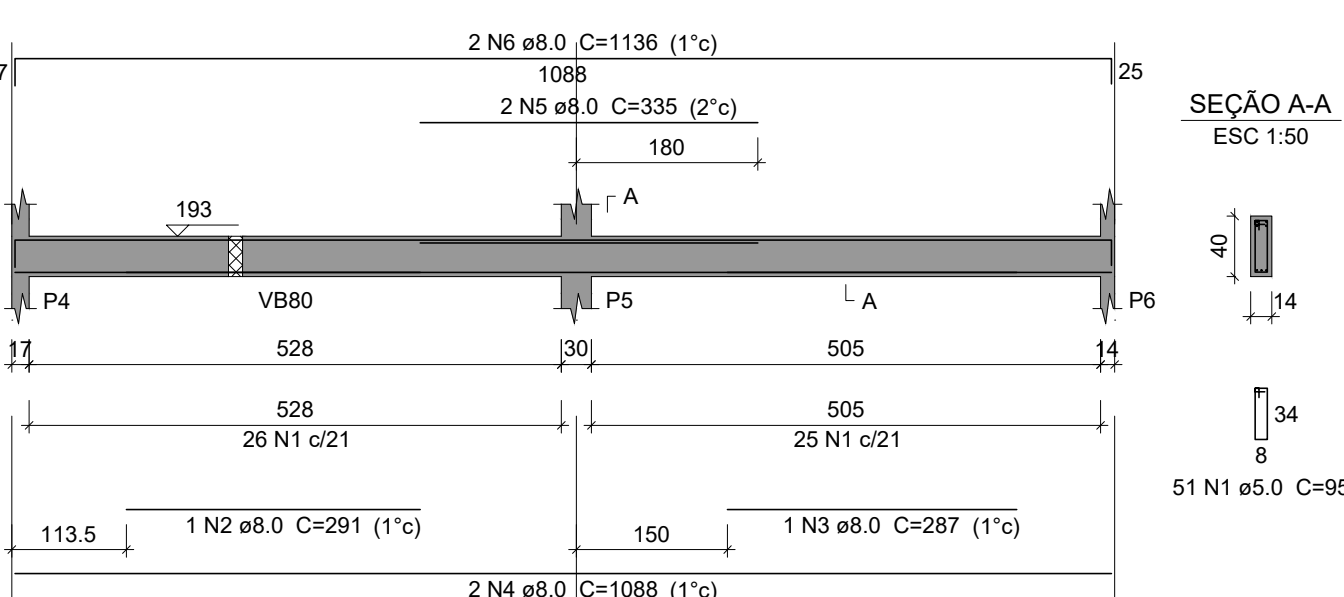
Forma do pavimento BALDRAME (Nível 193)

escala 1/75

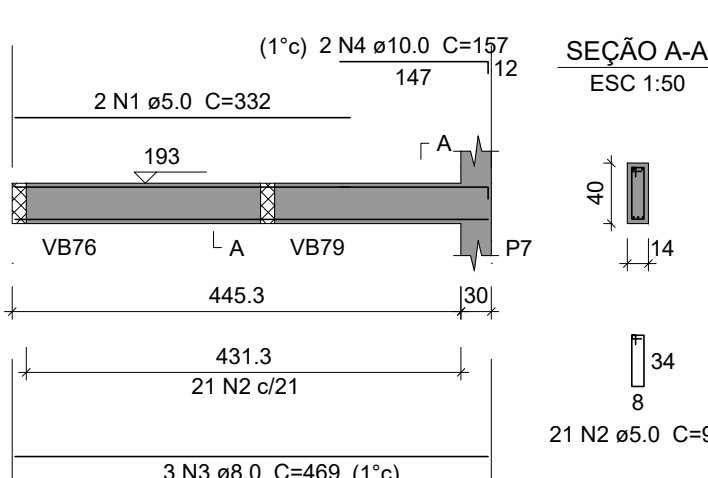
VB1 (14 x 40)



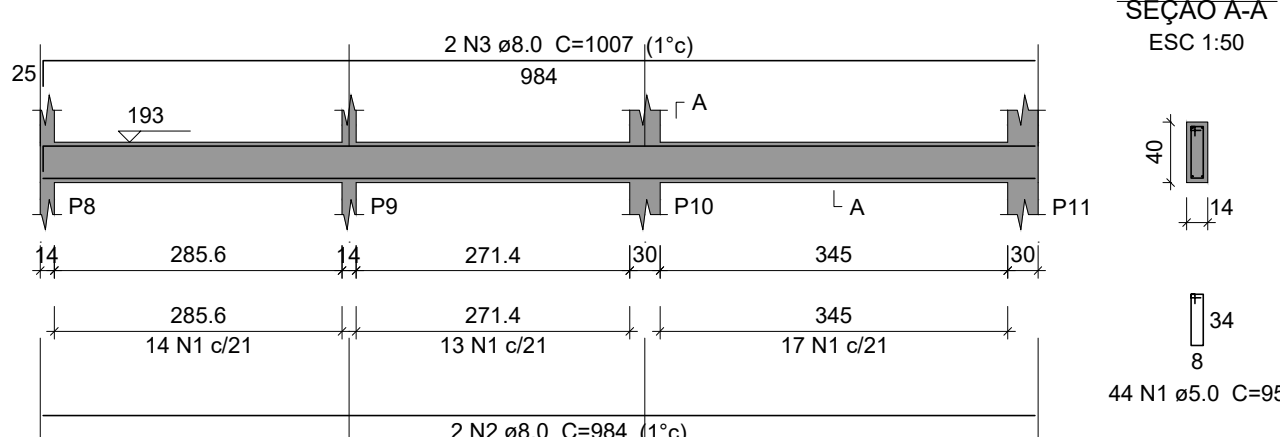
VB2 (14 x 40)



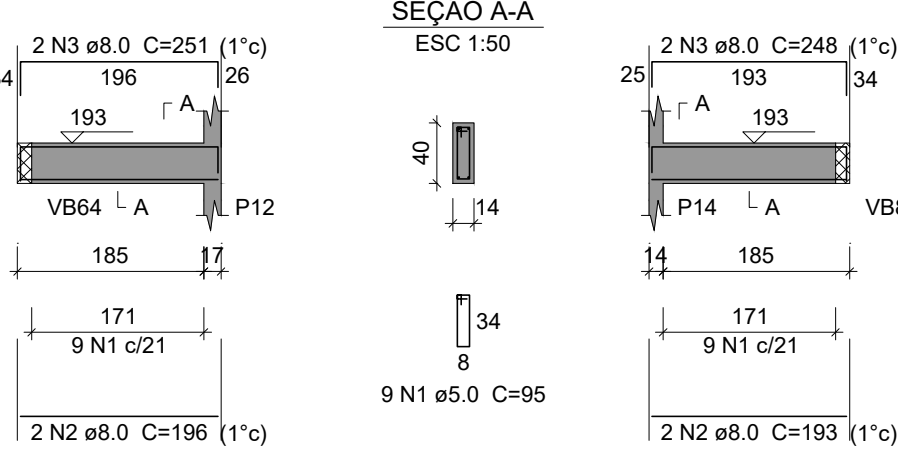
VB3 (14 x 40)



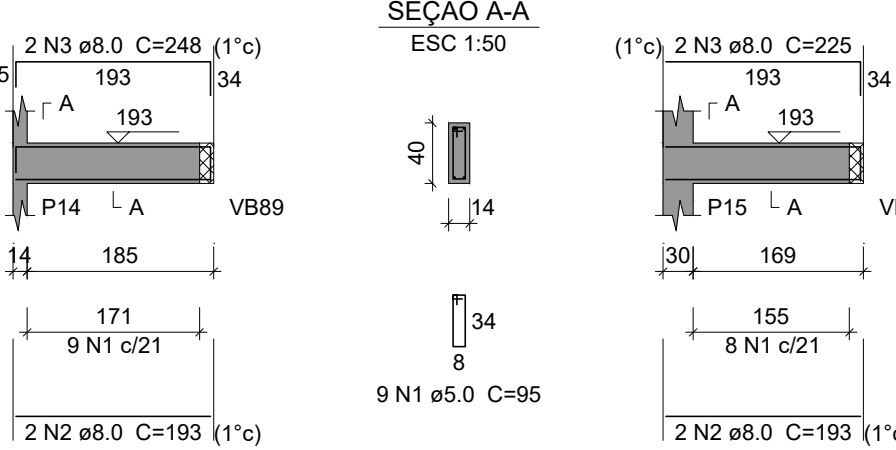
VB4 (14 x 40)



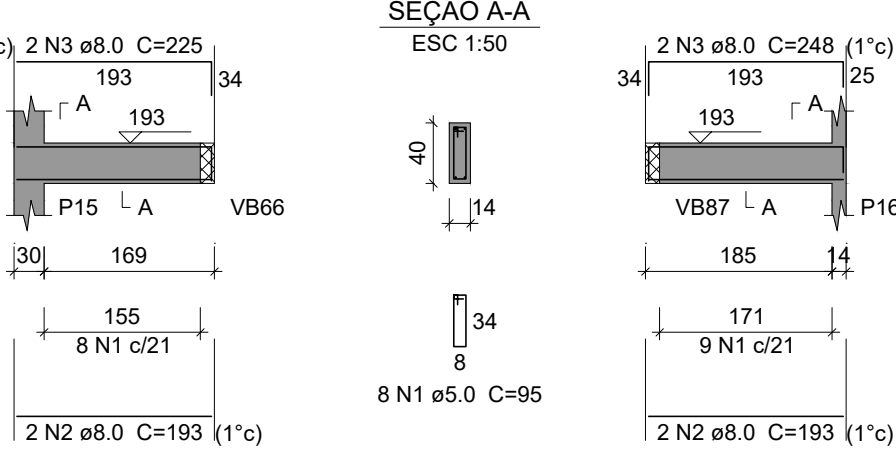
VB5 (14 x 40)



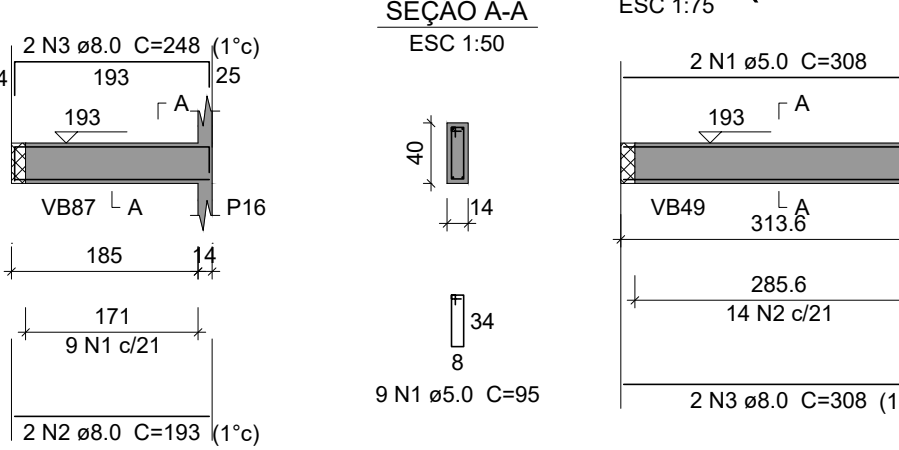
VB6 (14 x 40)



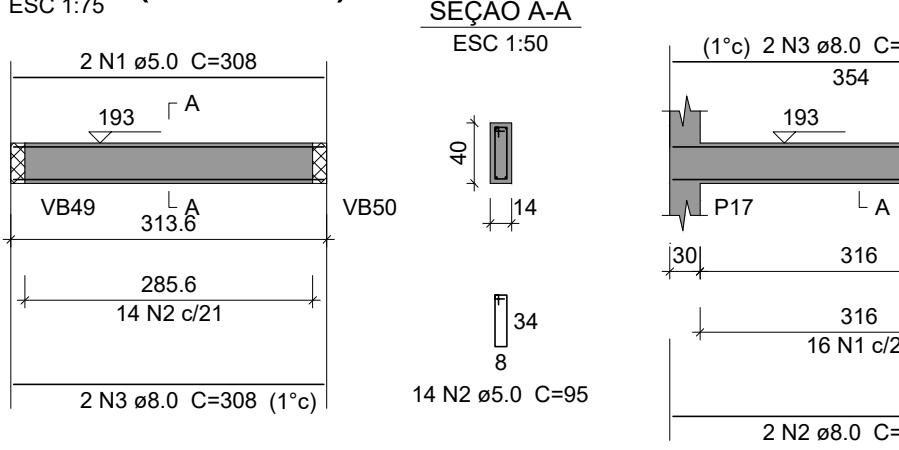
VB7 (14 x 40)



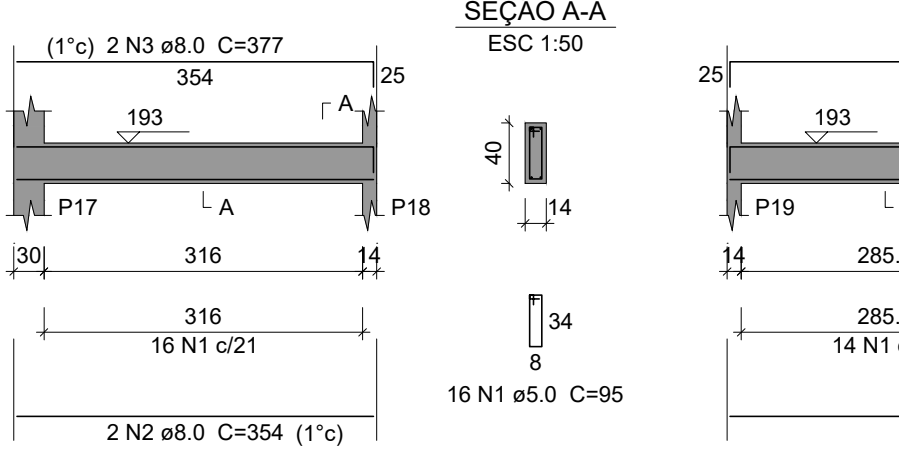
VB8 (14 x 40)



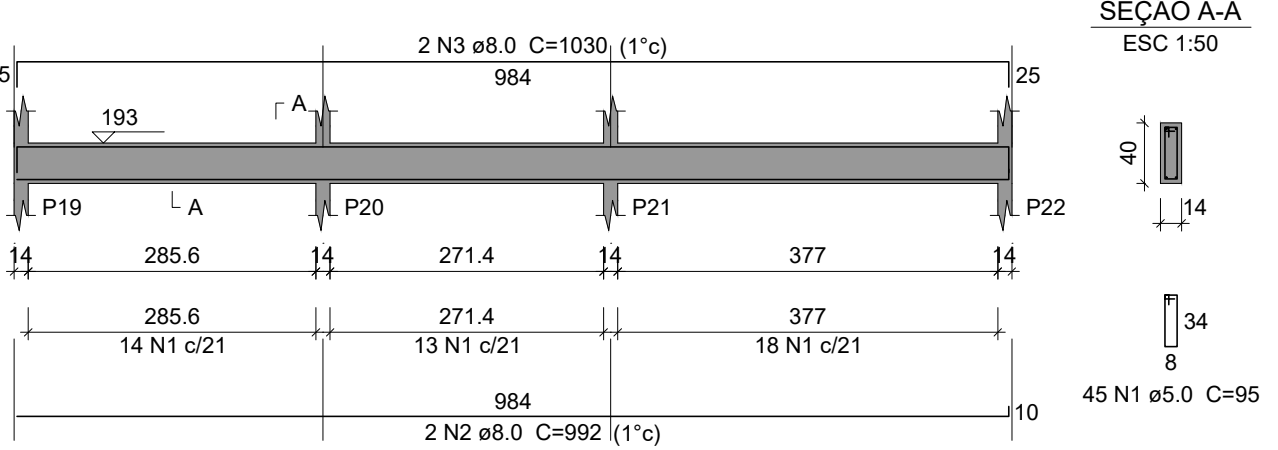
VB9 (14 x 40)



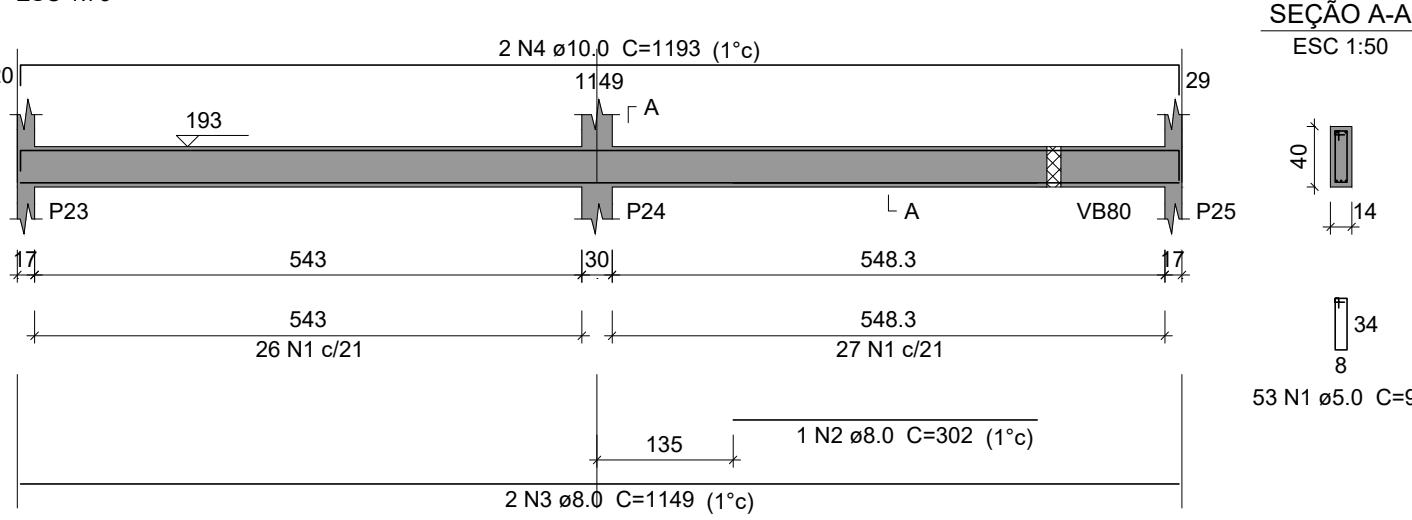
VB10 (14 x 40)



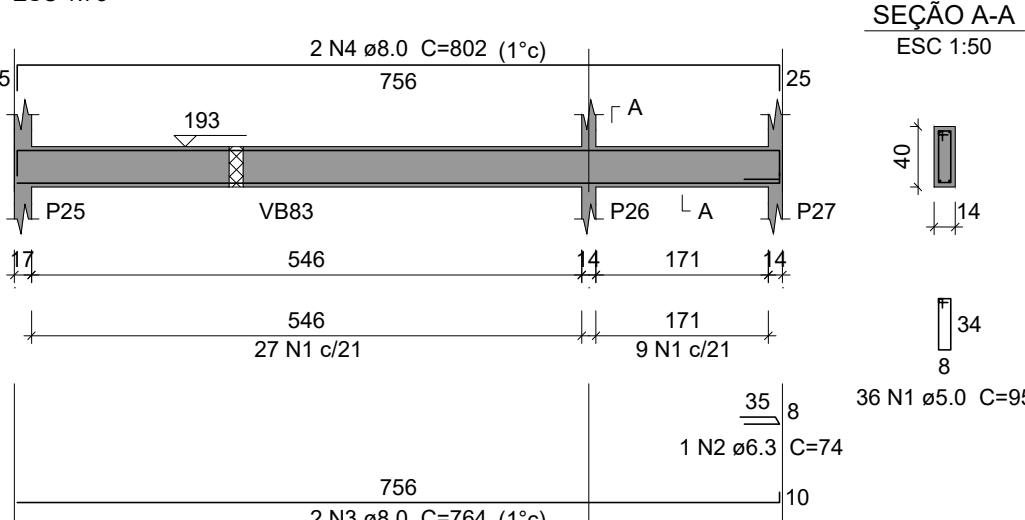
VB11 (14 x 40)



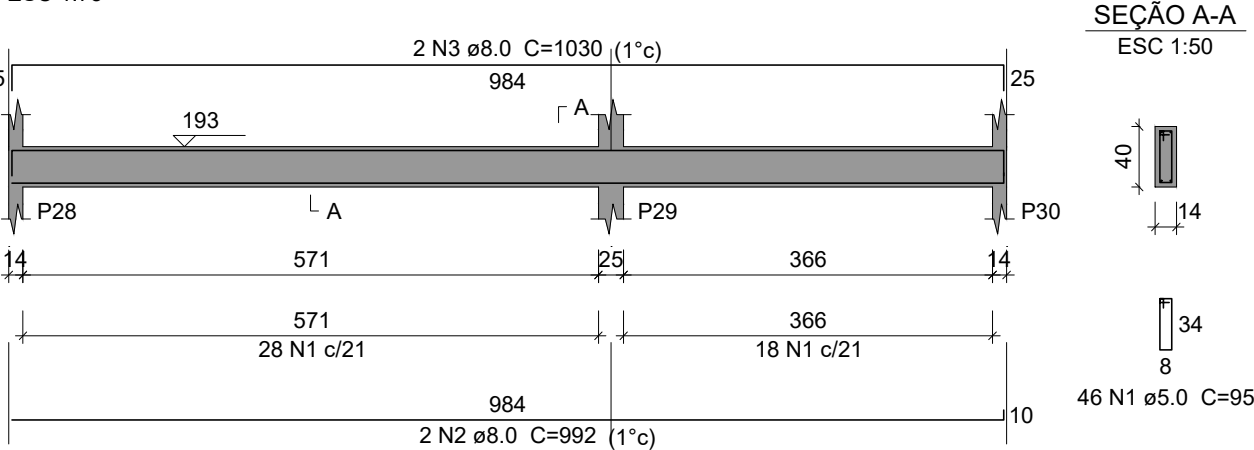
VB12 (14 x 40)



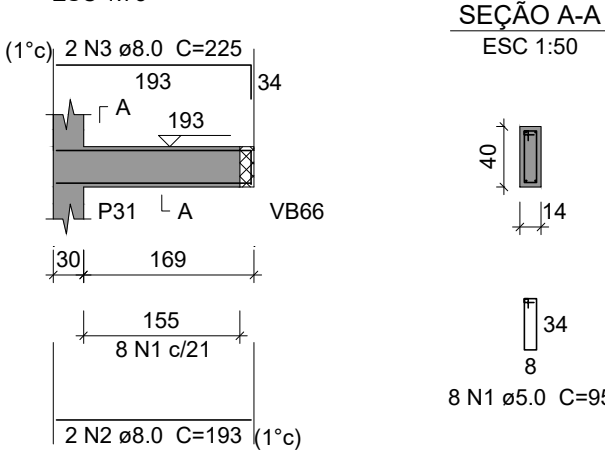
VB13 (14 x 40)



VB14 (14 x 40)



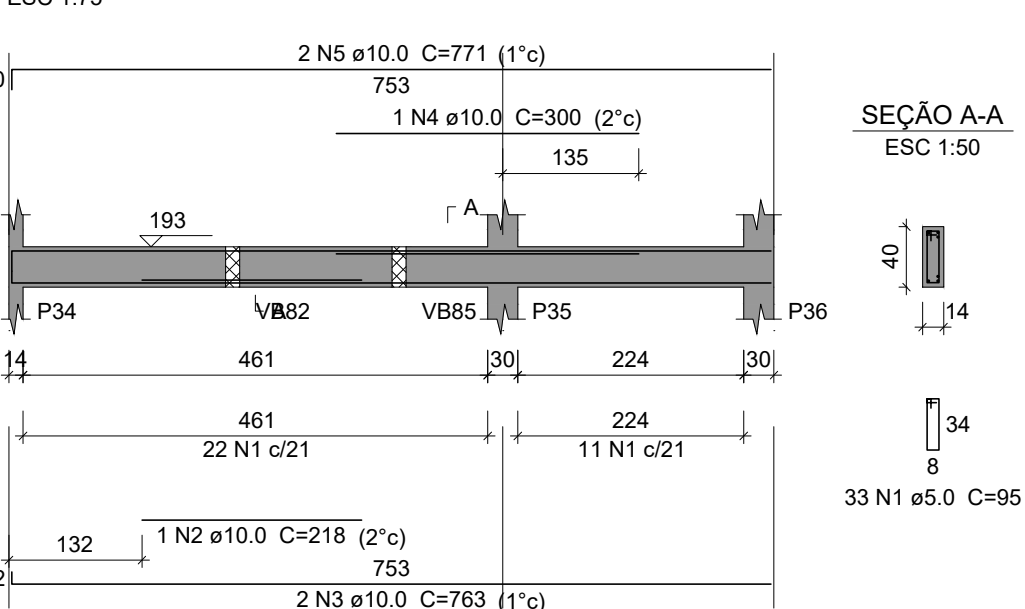
VB15 (14 x 40)



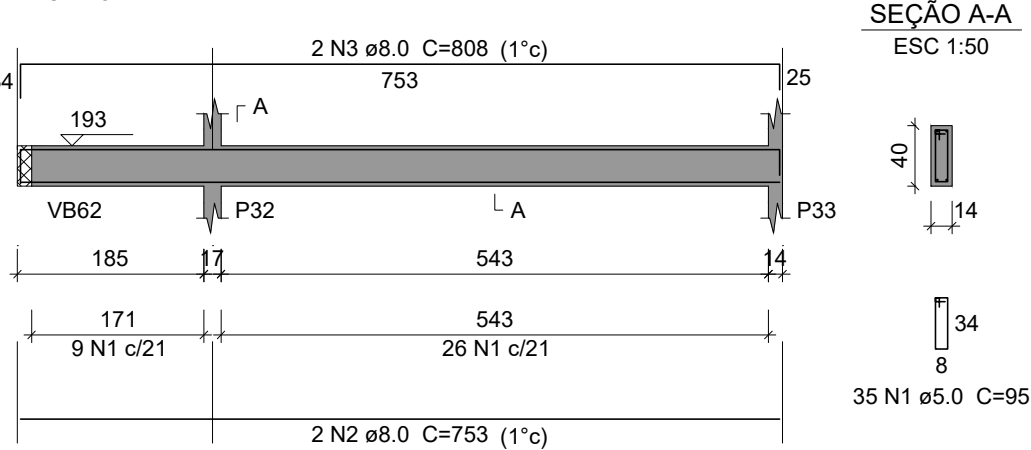
Resumo do aço			
ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.5	0.4
	8.0	496.5	215.5
	10.0	105.4	71.5
	5.0	618.9	104.9
CA60	5.0		
PESO TOTAL (kg)			
CA50	287.4		
CA60	104.9		

Volume de concreto (C-25) = 7.3 m³
Área de forma = 122.4 m²

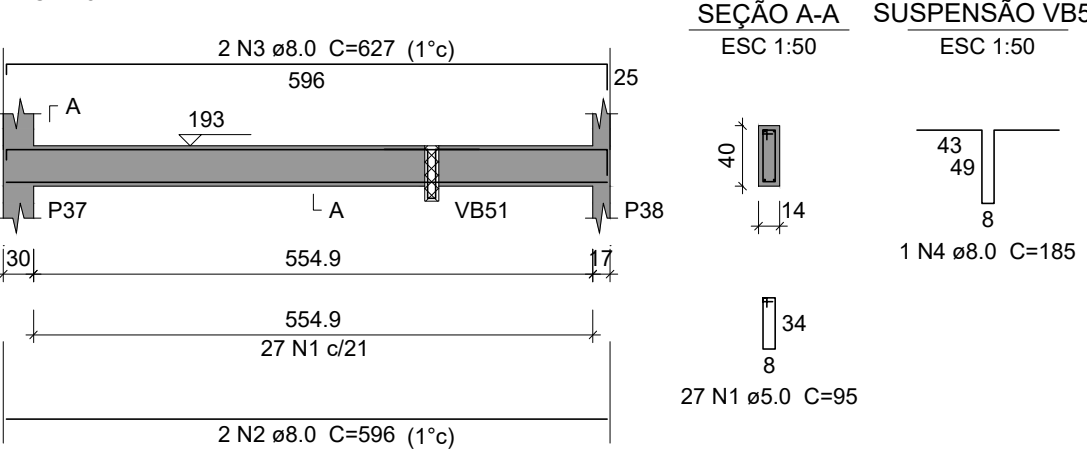
VB17 (14 x 40)



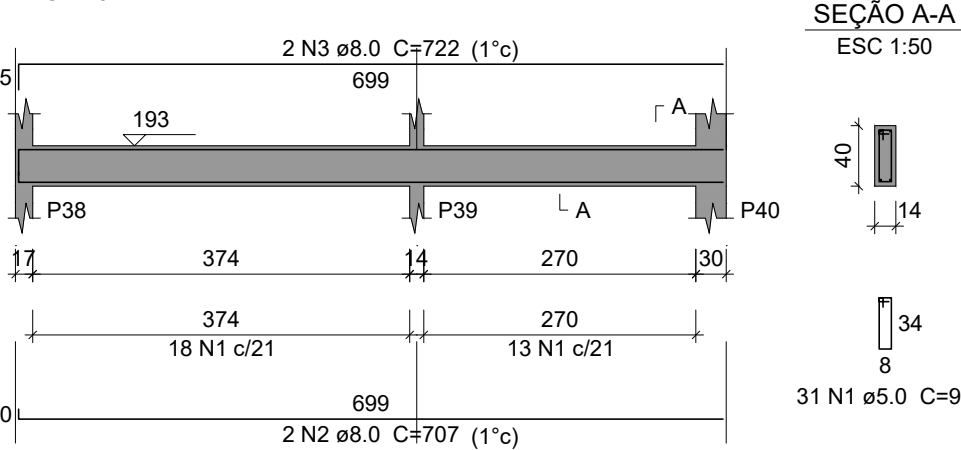
VB16 (14 x 40)



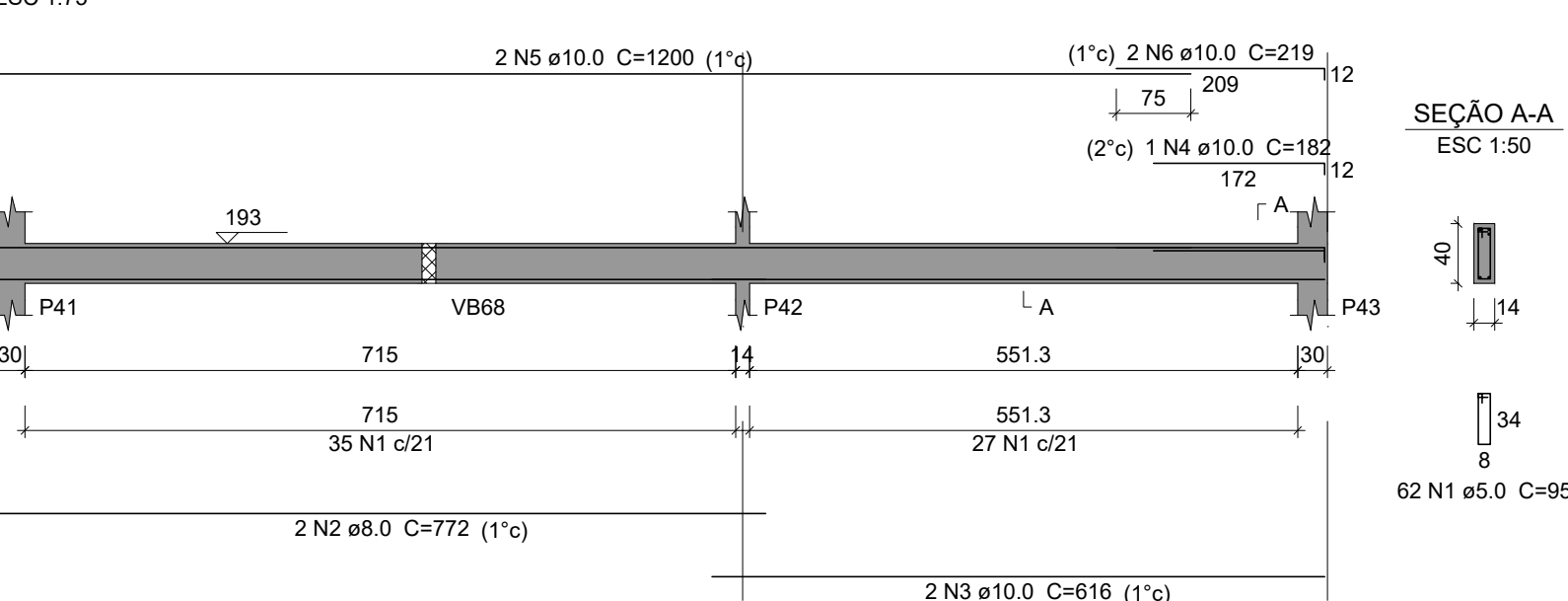
VB18 (14 x 40)



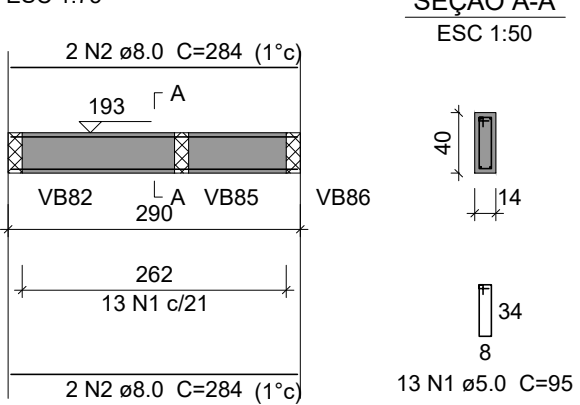
VB19 (14 x 40)



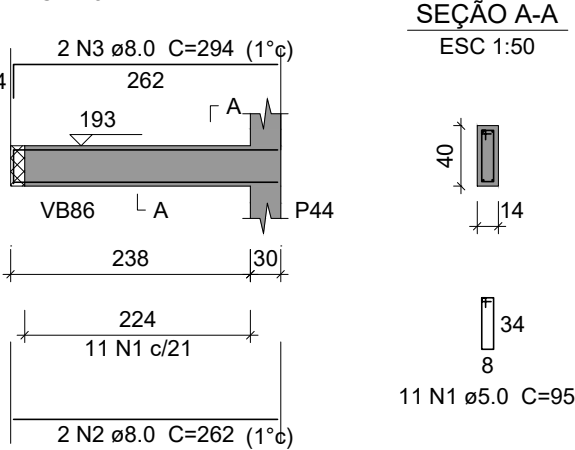
VB20 (14 x 40)



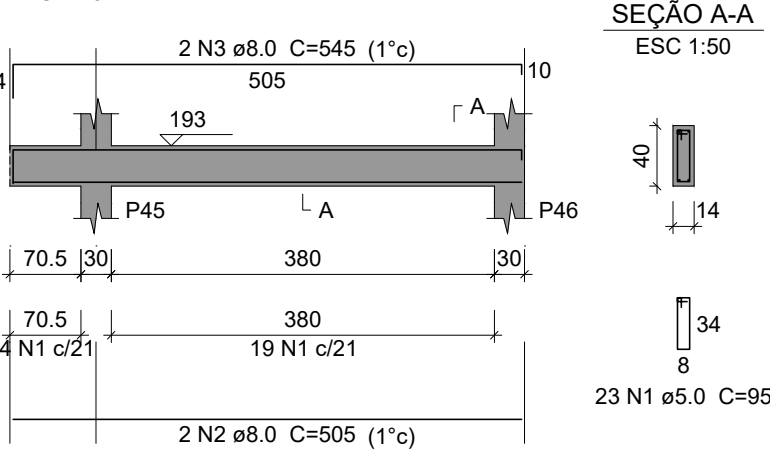
VB21 (14 x 40)



VB22 (14 x 40)



VB23 (14 x 40)



Relação do aço

ELEMENTO	ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	CA60	1	5.0	34	95	3230
	CA50	2	6.3	1	74	74
	CA50	3	8.0	1	267	267
	CA50	4	8.0	2	761	1522
	CA50	5	8.0	1	185	185
VB2	CA50	6	8.0	1	290	290
	CA50	7	8.0	2	784	1568
	CA60	1	5.0	51	95	4845
	CA50	2	8.0	21	291	291
	CA50	3	8.0	1	287	287
VB3	CA50	4	8.0	2	1088	2176
	CA50	5	8.0	2	335	670
	CA50	6	8.0	2	1136	2272
	CA60	1	5.0	2	332	664
	CA50	3	8.0	3	469	1407
VB4	CA50	4	10.0	2	157	314
	CA60	1	5.0	44	95	4180
	CA50	2	8.0	2	984	1968
	CA50	3	8.0	2	1007	2014
	CA60	1	5.0	9	95	855
VB5	CA50	2	8.0	2	196	392
	CA50	3	8.0	2	251	502
	CA60	1	5.0	9	95	855
	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	248	496
VB6	CA60	1	5.0	8	95	760
	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	225	450
	CA60	1	5.0	9	95	855
	CA50	2	8.0	2	193	386
VB7	CA50	3	8.0	2	248	496
	CA60	1	5.0	2	308	616
	CA60	2	5.0	14	95	1330
	CA50	3	8.0	2	308	616
	CA60	1	5.0	16	95	1520
VB8	CA50	2	8.0	2	354	708
	CA50	3	8.0	2	377	754
	CA60	1	5.0	45	95	4275
	CA50	2	8.0	2	992	1984
	CA50	3	8.0	2	1030	2060
VB9	CA60	1	5.0	53	95	5035
	CA50	2	8.0	1	302	302
	CA50	3	8.0	2	1149	2298
	CA50	4	10.0	2	1193	2386
	CA60	1	5.0	36	95	3420
VB10	CA50	2	6.3	1	74	74
	CA50	3	8.0	2	764	1528
	CA50	4	8.0	2	802	1604
	CA60	1	5.0	46	95	4370
	CA50	2	8.0	2	992	1984
VB11	CA50	3	8.0	2	1030	2060
	CA60	1	5.0	8	95	760
	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	225	450
	CA60	1	5.0	35	95	3325
VB12	CA50	2	8.0	2	753	1506
	CA50	3	8.0	2	808	1616
	CA60	1	5.0	33	95	3135
	CA50	2	10.0	1	218	218
	CA50	3	8.0	2	763	1526
VB13	CA50	4	10.0	1	300	300
	CA50	5	10.0	2	771	1542
	CA60	1	5.0	27	95	2565
	CA50	2	8.0	2	596	1192
	CA50	3	8.0	2	627	1254
VB14	CA50	4	8.0	1	185	185
	CA60	1	5.0	31	95	2945
	CA50	2	8.0	2	707	1414
	CA50	3	8.0	2	722	1444
	CA60	1	5.0	62	95	5890
VB15	CA50	2	8.0	2	772	1544
	CA50	3	10.0	2	616	1232
	CA50	4	10.0	1	182	182
	CA50	5	10.0	2	1200	2400
	CA50	6	10.0	2	219	438
VB16	CA60	1	5.0	13	95	1235
	CA50	2	8.0	4	284	1136
	CA60	1	5.0	11	95	1045
	CA50	2	8.0	2	282	524
	CA50	3	8.0	2	294	588
VB17	CA60	1	5.0	23	95	2185
	CA50	2	8.0	2	505	1010
	CA50	3	8.0	2	545	1090

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:

RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEUDO:
- Detalhamento das Vigas Baldrame_01/04;
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

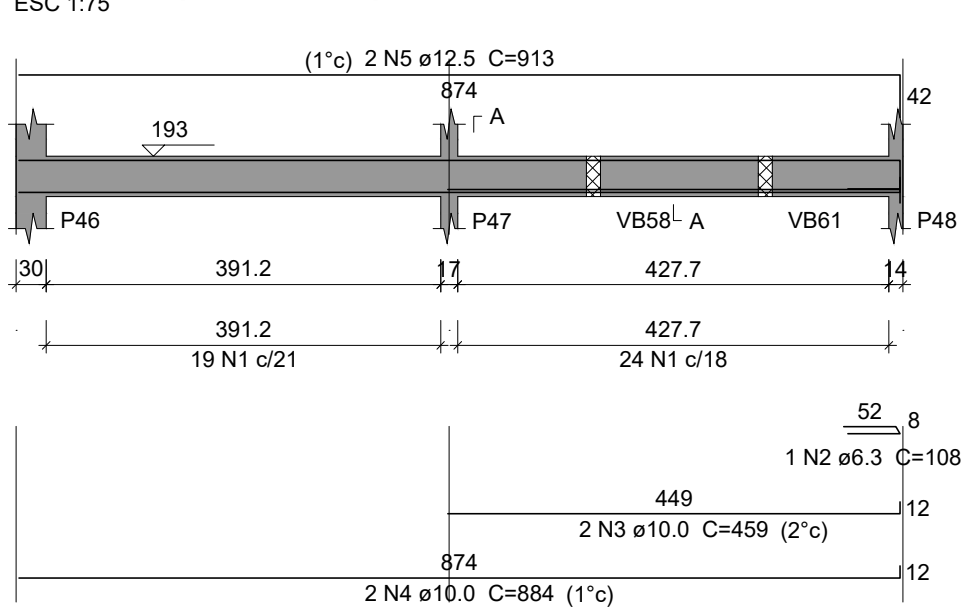
PRANCHA:

08/11

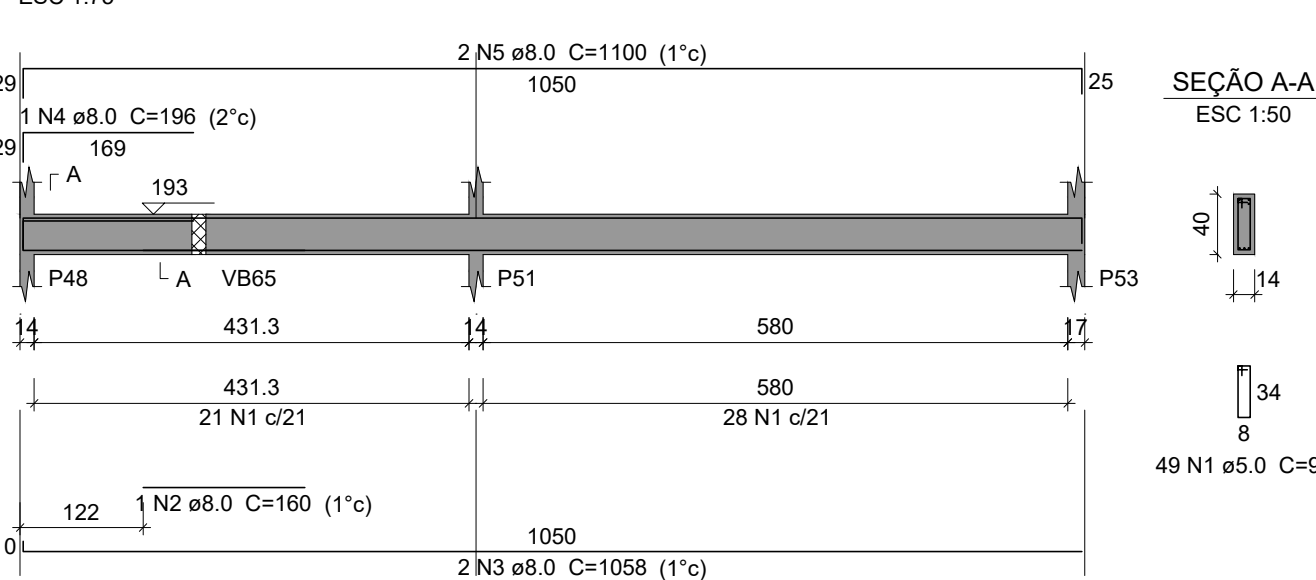


PROCURADORIA-GERAL DE JUSTIÇA

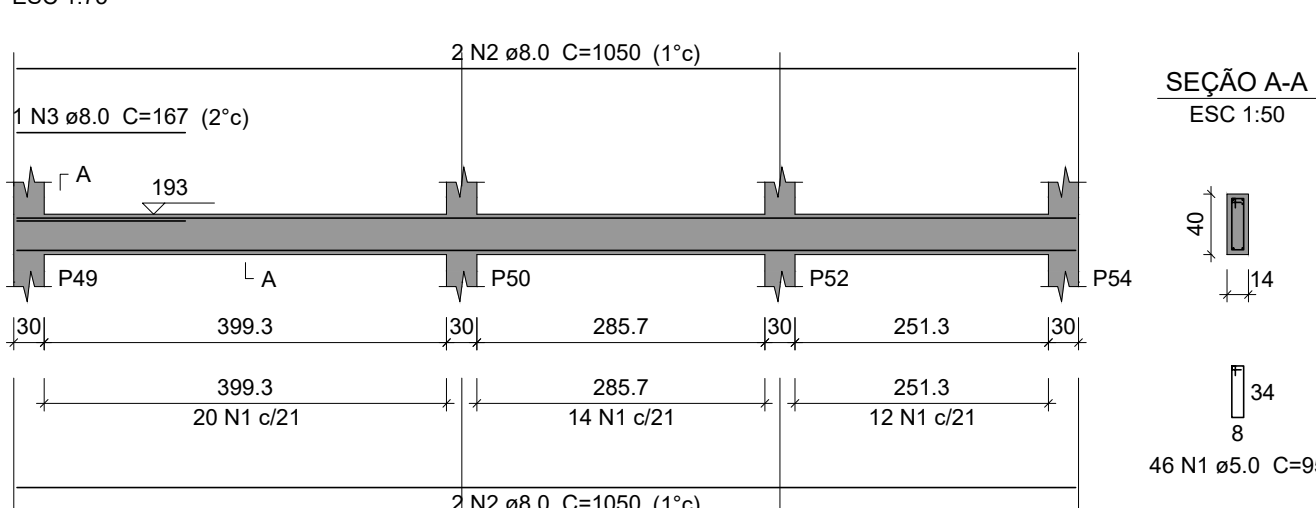
VB24 (14 x 40)



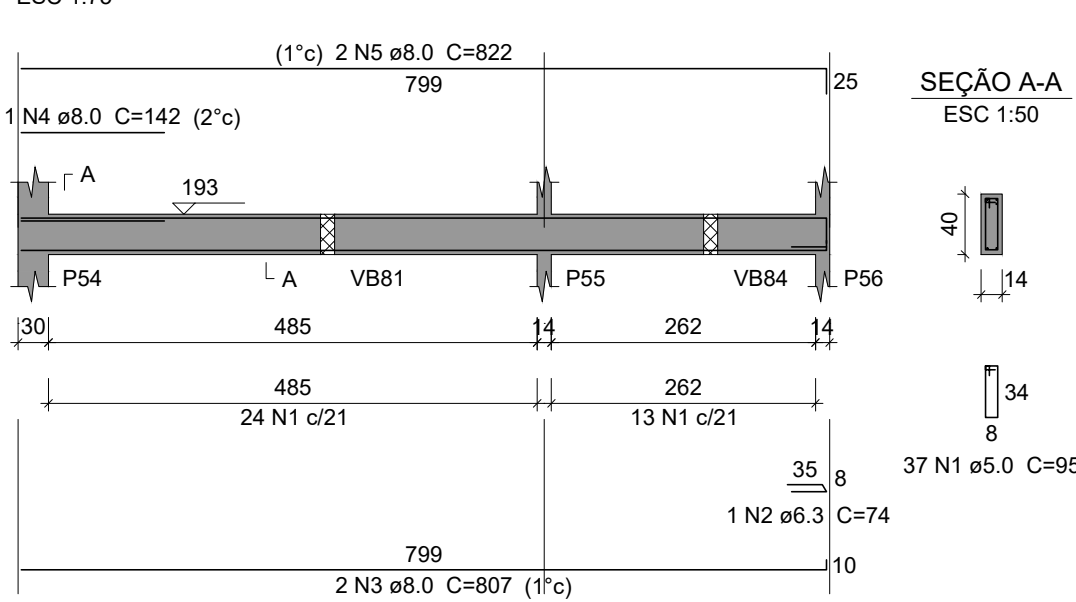
VB25 (14 x 40)



VB26 (14 x 40)

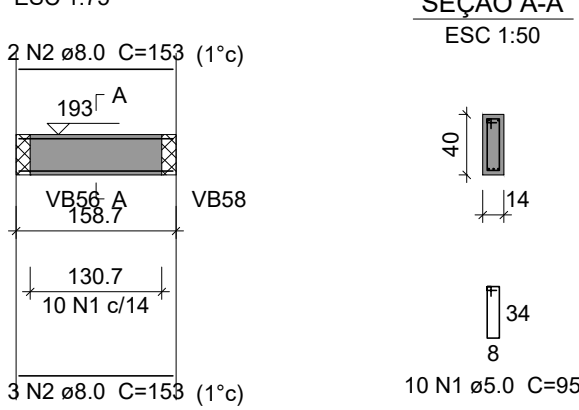


VB27 (14 x 40)

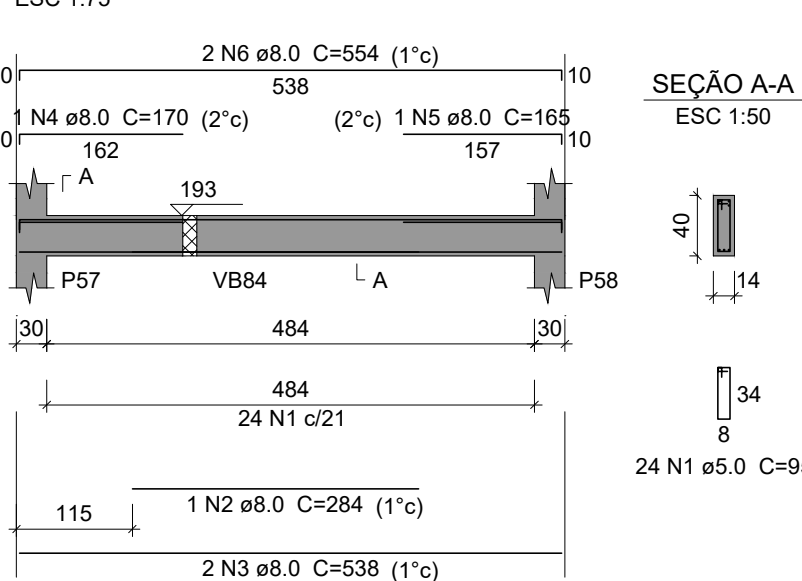


Relação do aço						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB24	CA60	1	5.0	43	95	4085
	CA50	2	6.3	1	108	108
	CA50	3	10.0	2	459	918
	CA50	4	10.0	2	884	1768
	CA50	5	12.5	2	913	1826
VB25	CA60	2	8.0	4	49	196
	CA50	2	8.0	1	160	160
	CA50	3	8.0	2	1058	2116
	CA50	4	8.0	1	196	196
	CA50	5	8.0	2	1100	2200
VB26	CA60	1	5.0	46	95	4370
	CA50	2	8.0	4	1050	4200
	CA50	3	8.0	1	167	167
	CA60	1	5.0	37	95	3515
	CA50	2	6.3	1	74	74
VB27	CA50	3	8.0	2	807	1614
	CA50	4	8.0	1	142	142
	CA50	5	8.0	2	822	1644
	CA60	1	5.0	10	95	950
	CA50	2	8.0	5	153	765
VB28	CA60	1	5.0	24	95	2280
	CA50	2	8.0	1	284	284
	CA50	3	8.0	2	538	1076
	CA50	4	8.0	1	170	170
	CA50	5	8.0	1	165	165
VB29	CA50	6	8.0	2	554	1108
	CA60	1	5.0	2	308	616
	CA60	2	5.0	14	95	1330
	CA50	3	8.0	2	308	616
	CA60	1	5.0	41	95	3895
VB30	CA50	2	8.0	1	201	201
	CA50	3	8.0	2	935	1870
	CA50	4	8.0	1	320	320
	CA50	5	8.0	1	202	202
	CA50	6	8.0	2	943	1886
VB31	CA60	1	5.0	26	95	2470
	CA50	2	8.0	2	613	1226
	CA50	3	8.0	2	628	1256
	CA60	1	5.0	14	95	1330
	CA50	2	8.0	4	304	1216
VB32	CA60	1	5.0	14	95	1330
	CA50	2	8.0	4	309	1236
	CA60	1	5.0	14	95	1330
	CA50	2	8.0	4	304	1216
	CA60	1	5.0	15	95	1425
VB33	CA50	2	8.0	2	331	662
	CA50	3	8.0	2	378	756
	CA60	1	5.0	27	95	2565
	CA50	2	8.0	2	621	1242
	CA50	3	8.0	2	651	1302
VB34	CA60	1	5.0	52	95	4940
	CA50	2	8.0	2	425	850
	CA50	3	8.0	2	1154	2308
	CA50	4	12.5	1	228	228
	CA50	5	12.5	1	559	559
VB35	CA50	6	12.5	2	1045	2090
	CA50	7	12.5	2	235	470
	CA60	1	5.0	23	95	2185
	CA50	2	8.0	2	477	954
	CA50	3	8.0	2	532	1064
VB36	CA60	1	5.0	31	95	2945
	CA50	2	8.0	4	712	2848
	CA50	3	8.0	1	252	252
	CA50	4	8.0	1	272	272
	CA60	1	5.0	8	95	760
VB37	CA50	2	8.0	2	189	378
	CA50	3	8.0	2	237	474
	CA60	1	5.0	22	95	2090
	CA50	2	6.3	2	74	148
	CA50	3	8.0	2	493	986
VB38	CA50	4	8.0	2	532	1064
	CA60	1	5.0	5	95	475
	CA50	2	8.0	4	113	452
	CA60	1	5.0	11	95	1045
	CA50	2	10.0	2	212	424
VB39	CA50	3	12.5	2	266	532
	CA60	1	5.0	56	95	5320
	CA50	2	8.0	4	630	2520
	CA50	3	8.0	2	1110	2220
	CA50	4	8.0	2	171	342
VB40	CA60	1	5.0	17	95	1615
	CA50	2	8.0	2	398	796
	CA50	3	8.0	2	421	842
	CA60	1	5.0	37	95	3515
	CA50	2	8.0	2	827	1654
VB41	CA50	3	8.0	1	270	270
	CA50	4	8.0	2	853	1706
	CA60	1	5.0	32	95	3040
	CA50	2	8.0	2	698	1396
	CA50	3	8.0	1	142	142
VB42	CA50	4	8.0	2	721	1442

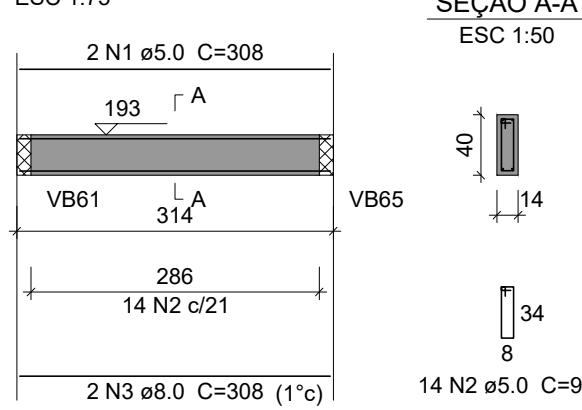
VB28 (14 x 40)



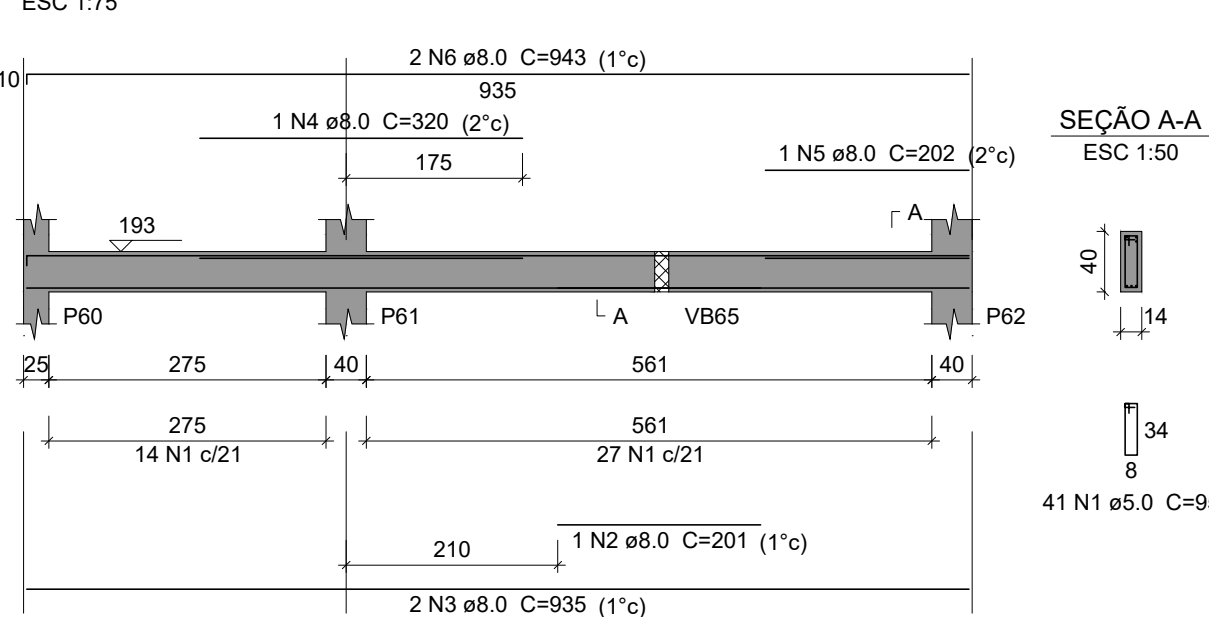
VB29 (14 x 40)



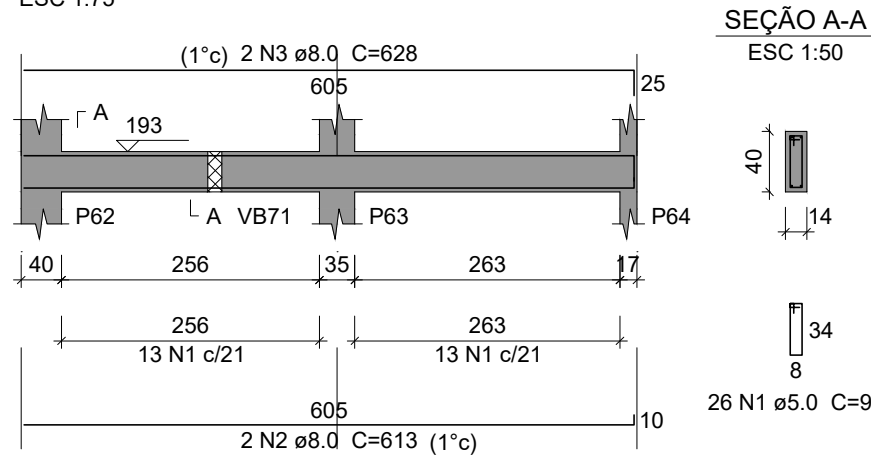
VB30 (14 x 40)



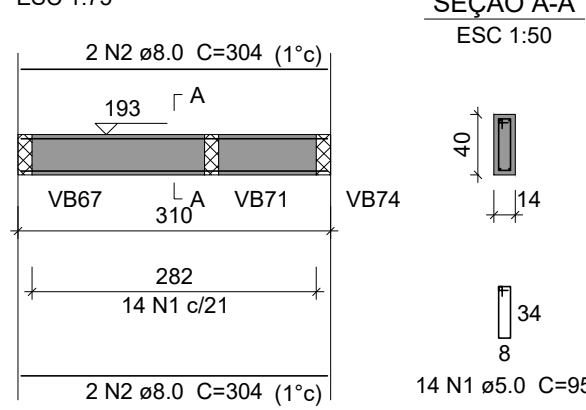
VB31 (14 x 40)



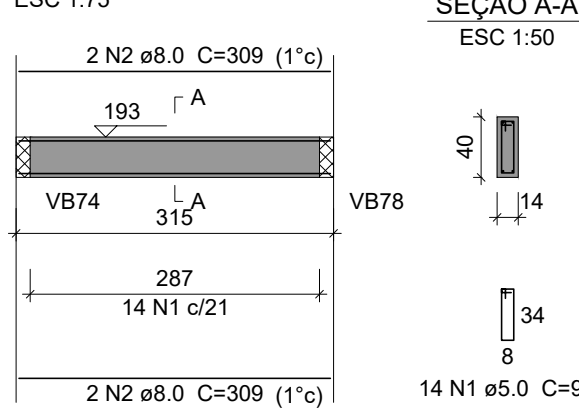
VB32 (14 x 40)



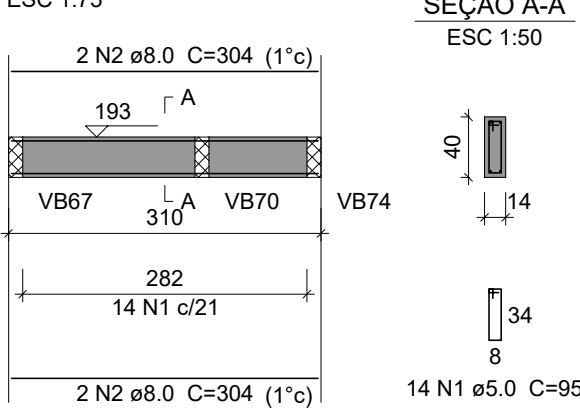
VB33 (14 x 40)



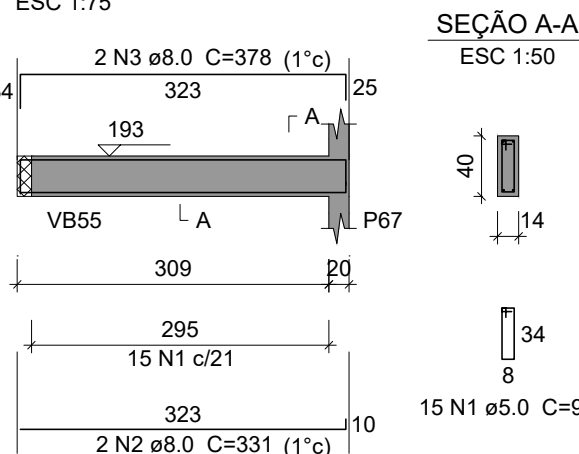
VB34 (14 x 40)



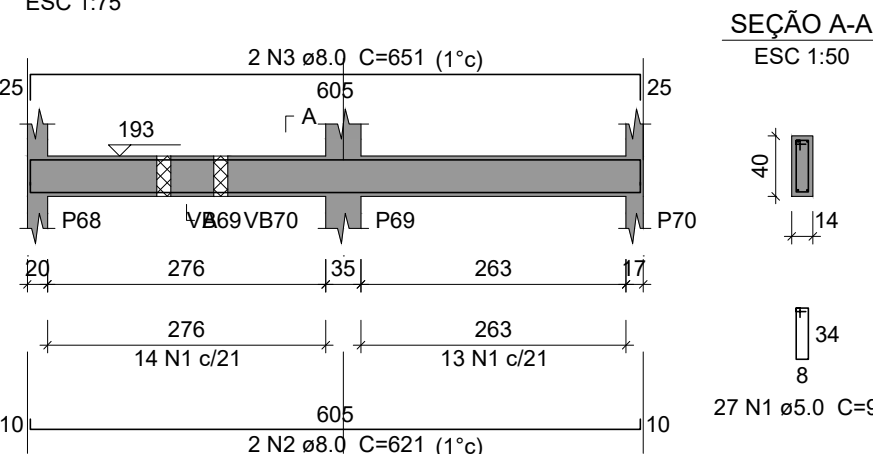
VB35 (14 x 40)



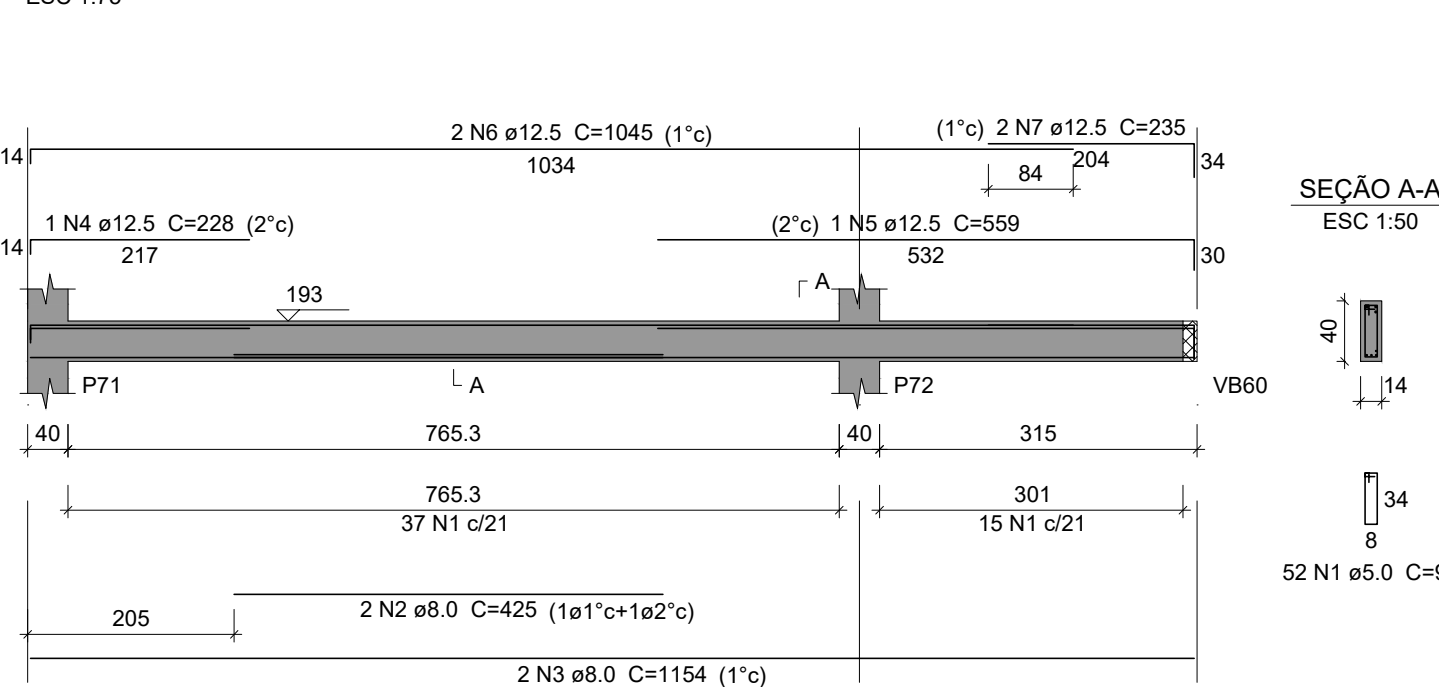
VB36 (14 x 40)



VB37 (14 x 40)



VB38 (14 x 40)

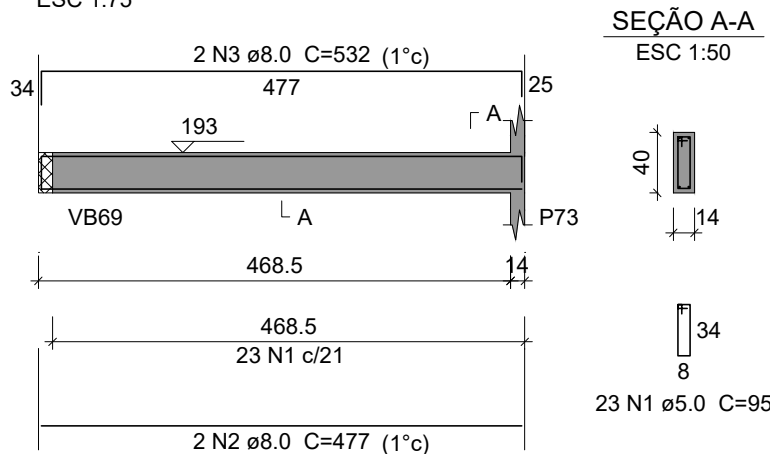


Resumo do aço

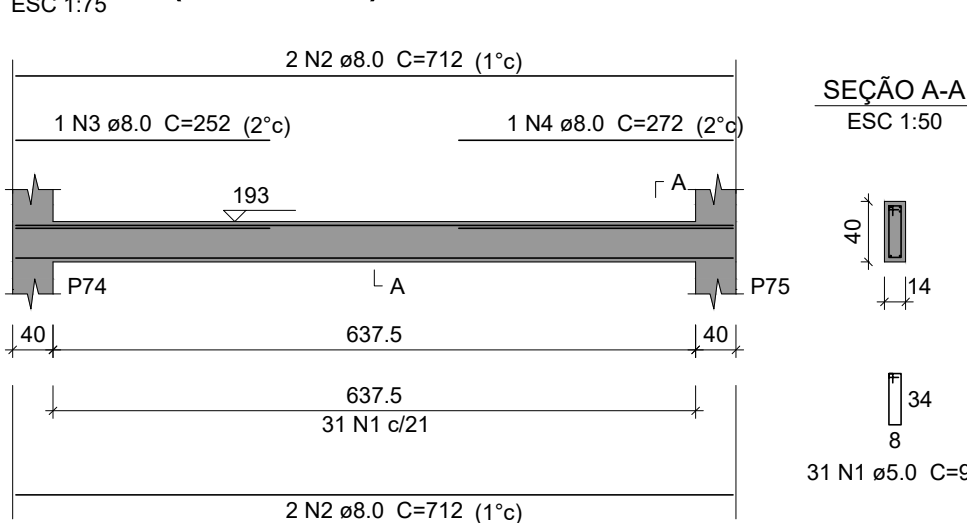
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	3.3	0.9
CA50	8.0	564.5	245
CA50	10.0	31.1	21.1
CA50	12.5	57.1	60.5
CA50	5.0	640.8	108.6
CA60			
PESO TOTAL (kg)			327.4
CA50			327.4
CA60			108.6

Volume de concreto (C-25) = 7.54 m³
Área de forma = 126.77 m²

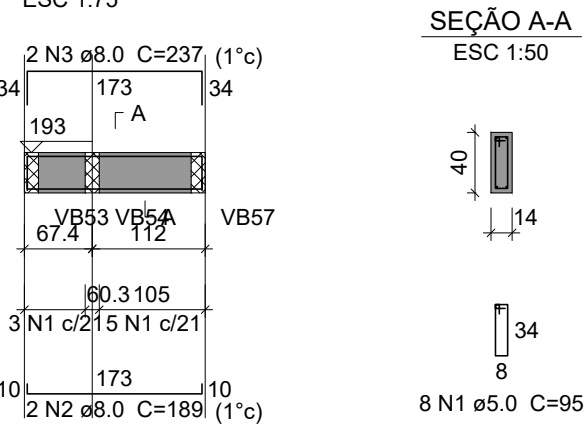
VB39 (14 x 40)



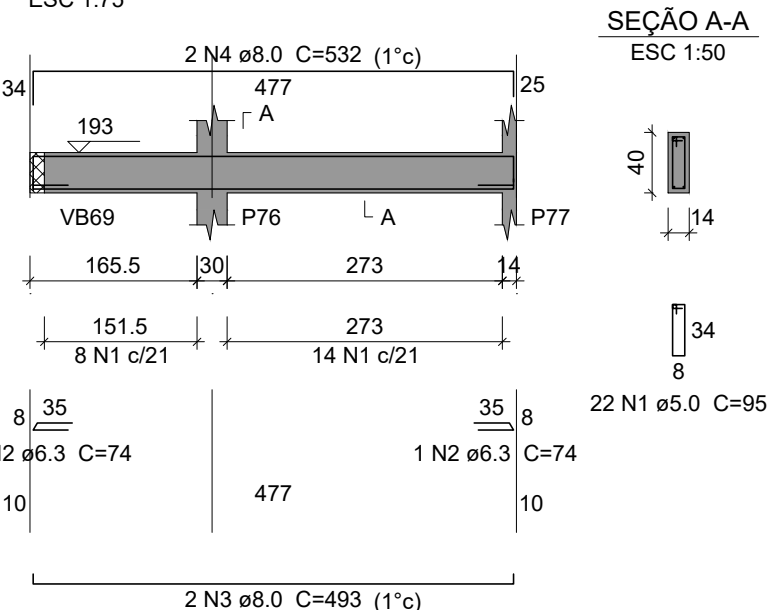
VB40 (14 x 40)



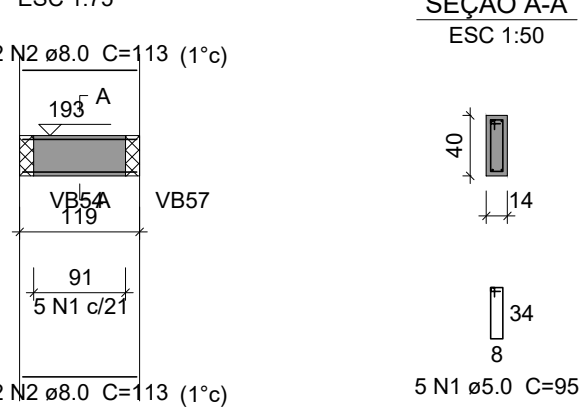
VB41 (14 x 40)



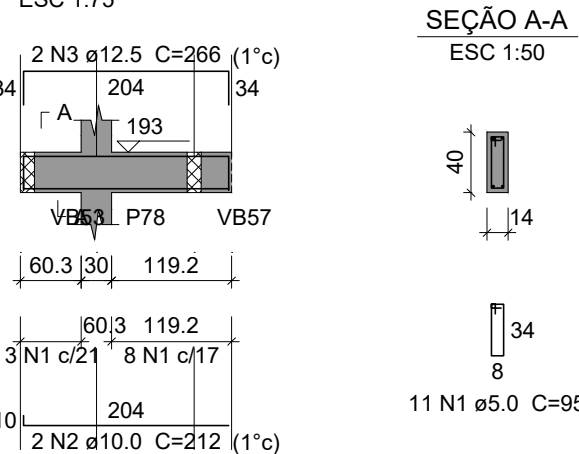
VB42 (14 x 40)



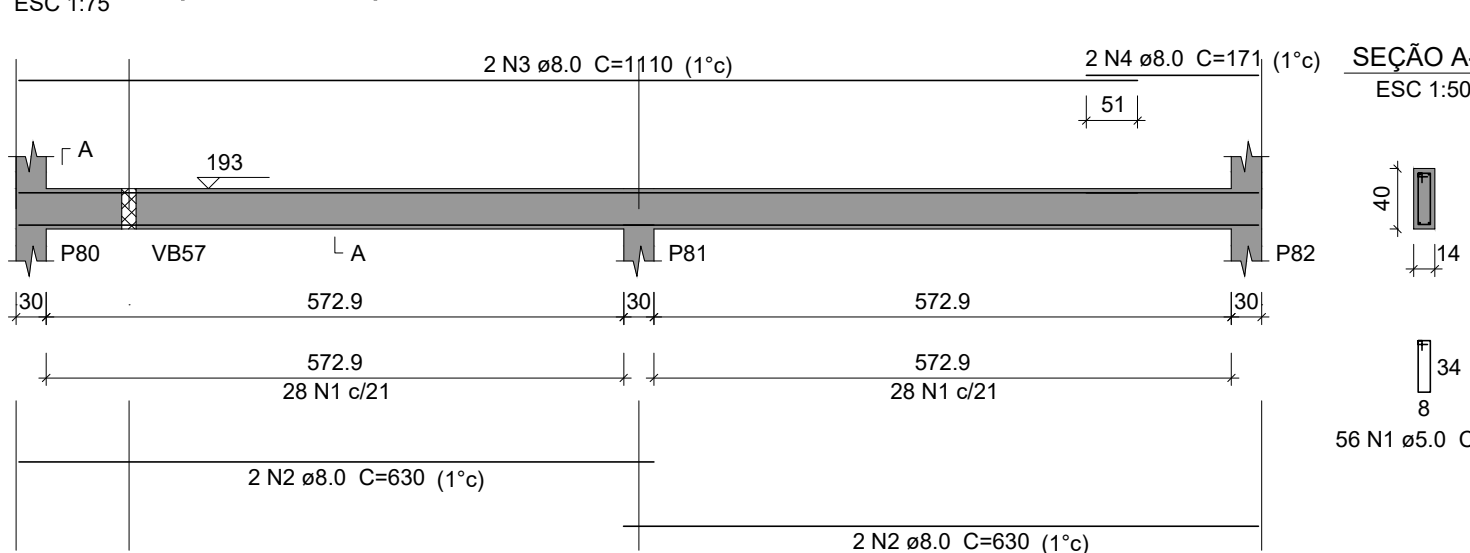
VB43 (14 x 40)



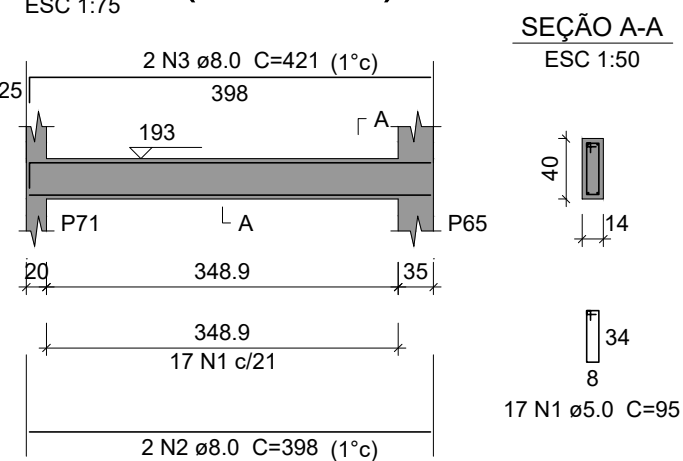
VB44 (14 x 40)



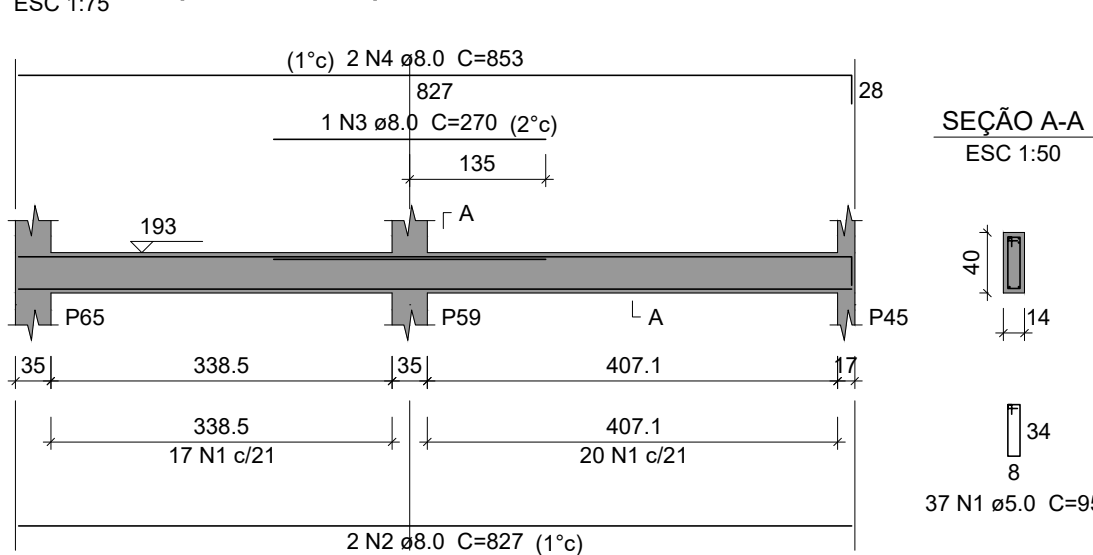
VB45 (14 x 40)



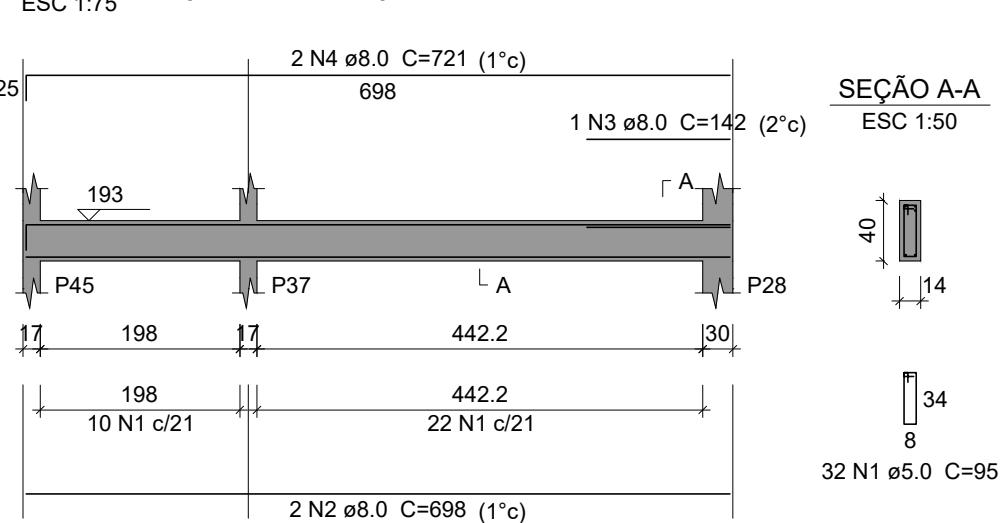
VB46 (14 x 40)



VB47 (14 x 40)



VB48 (14 x 40)



PROJETO DE FUNDAÇÃO

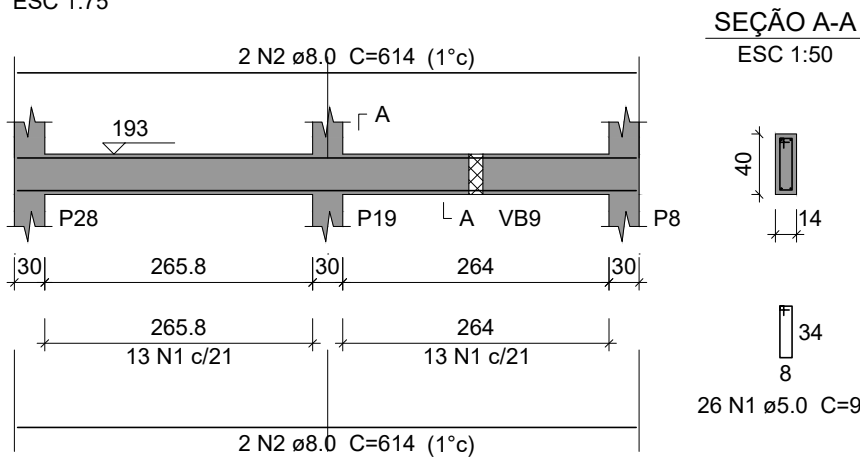
OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

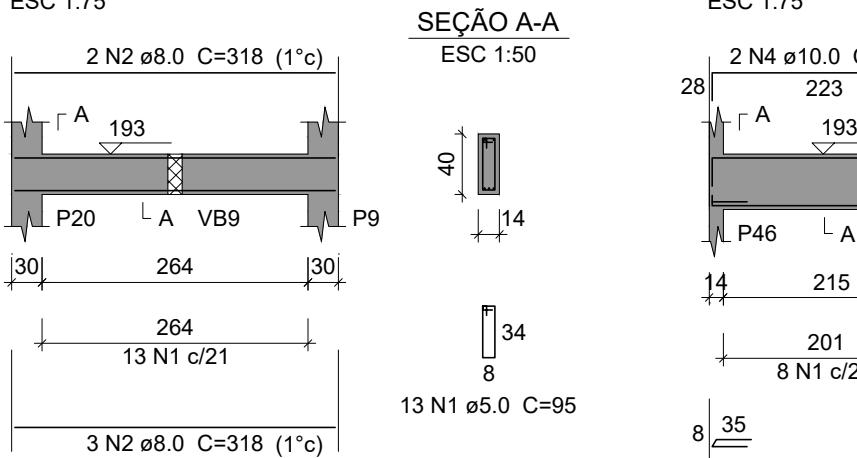
PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

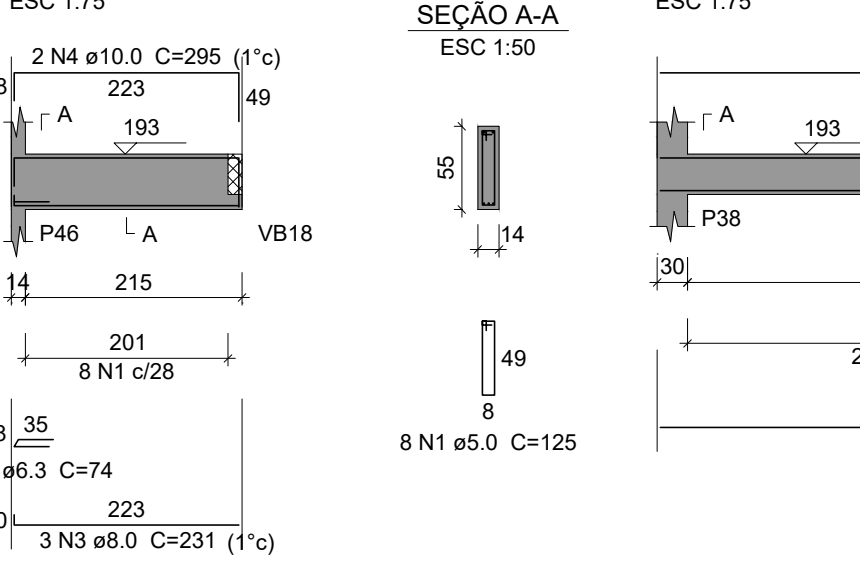
VB49 (14 x 40)



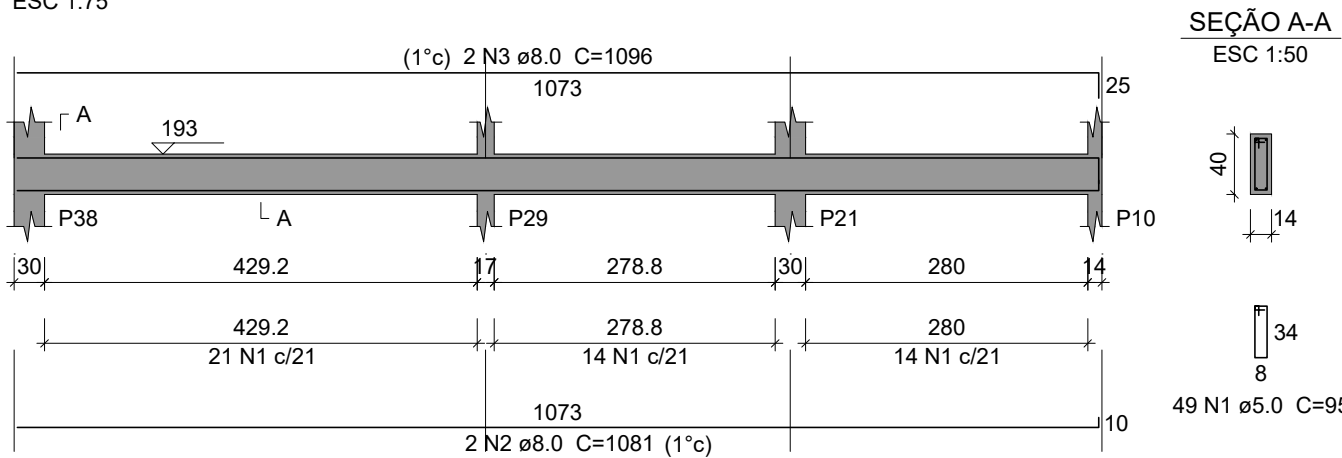
VB50 (14 x 40)



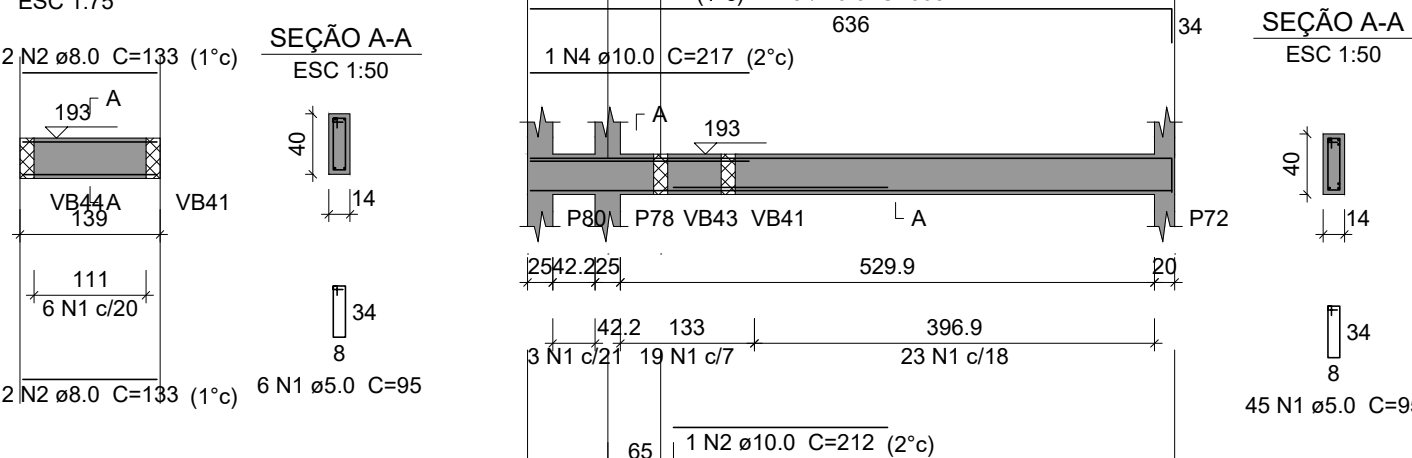
VB51 (14 x 55)



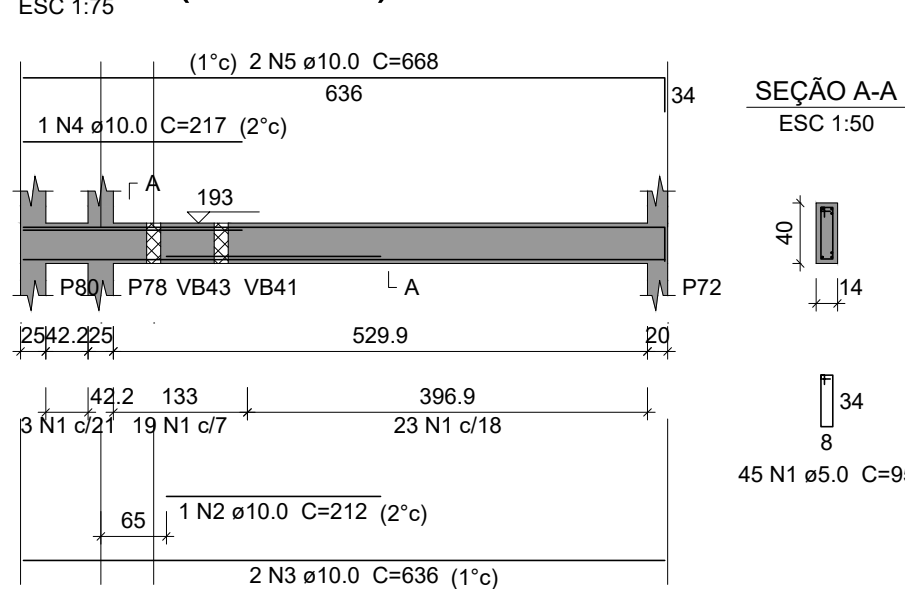
VB52 (14 x 40)



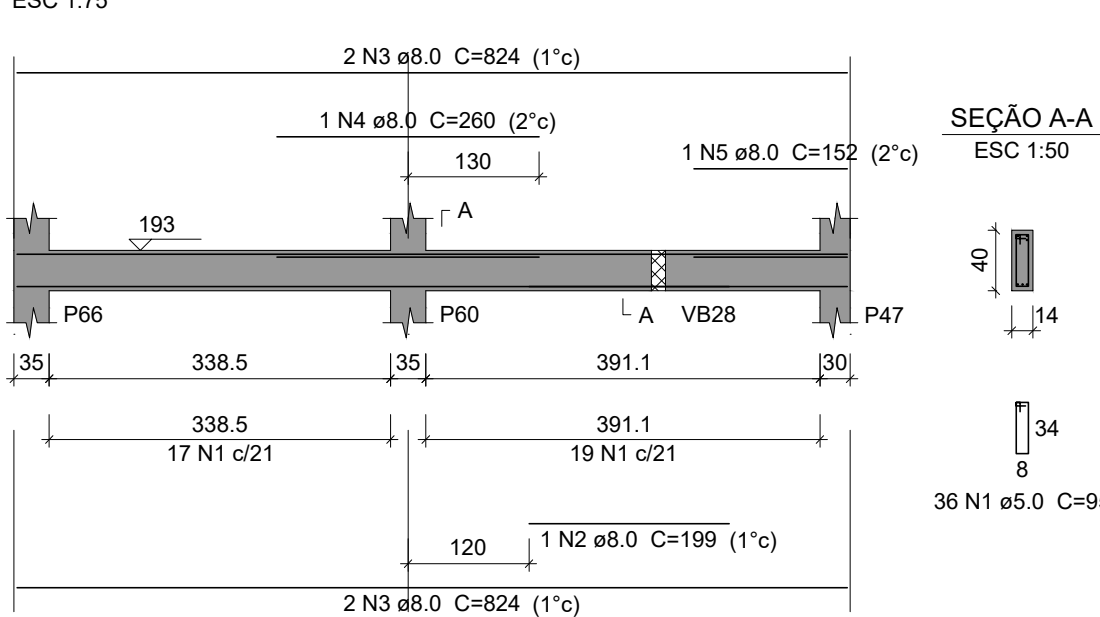
VB53 (14 x 40)



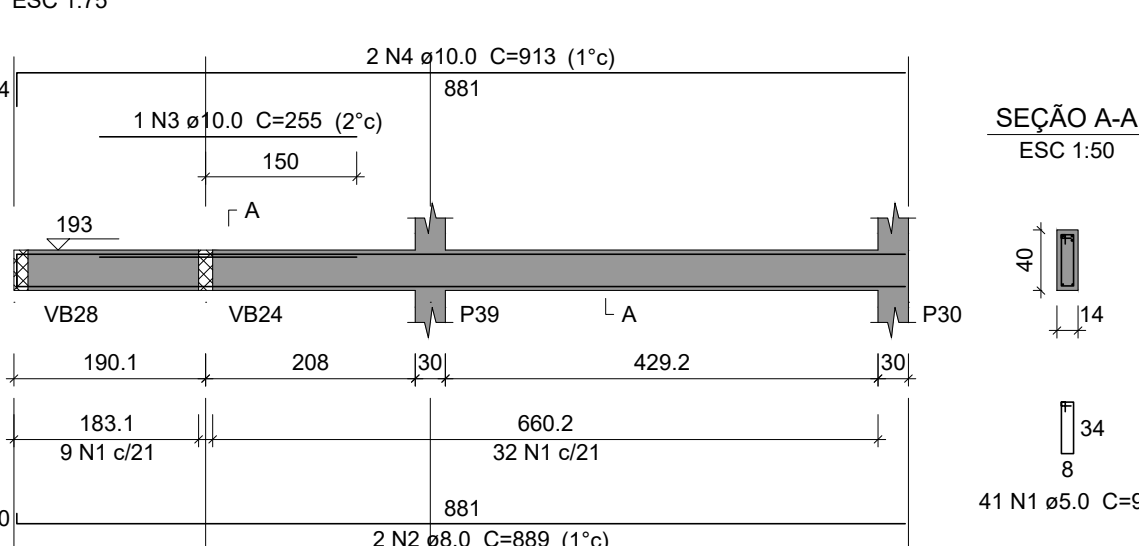
VB54 (14 x 40)



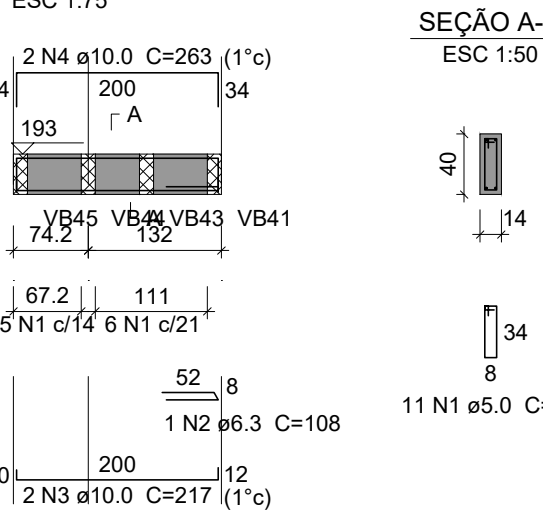
VB56 (14 x 40)



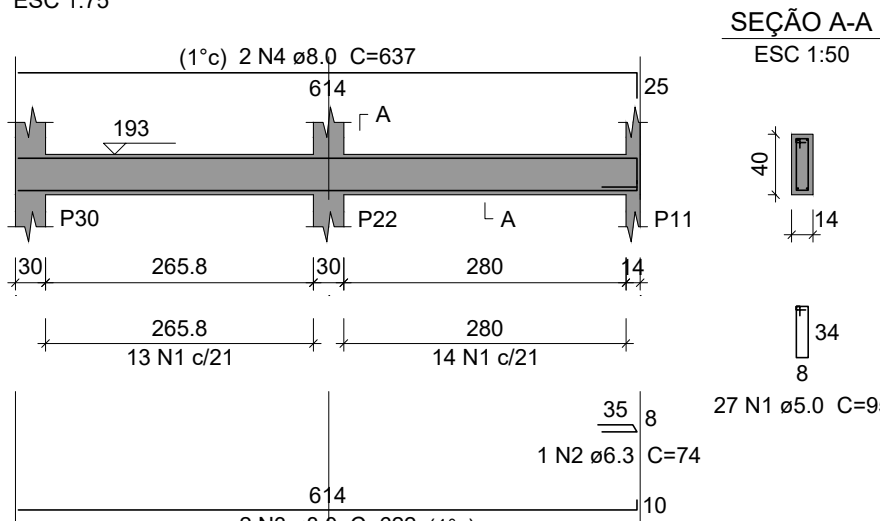
VB58 (14 x 40)



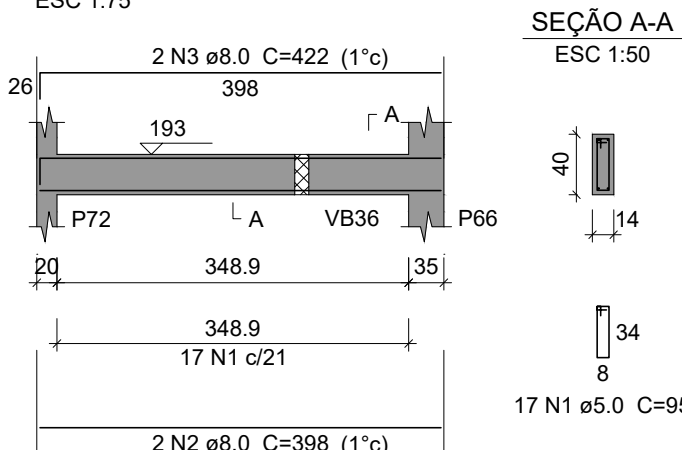
VB57 (14 x 40)



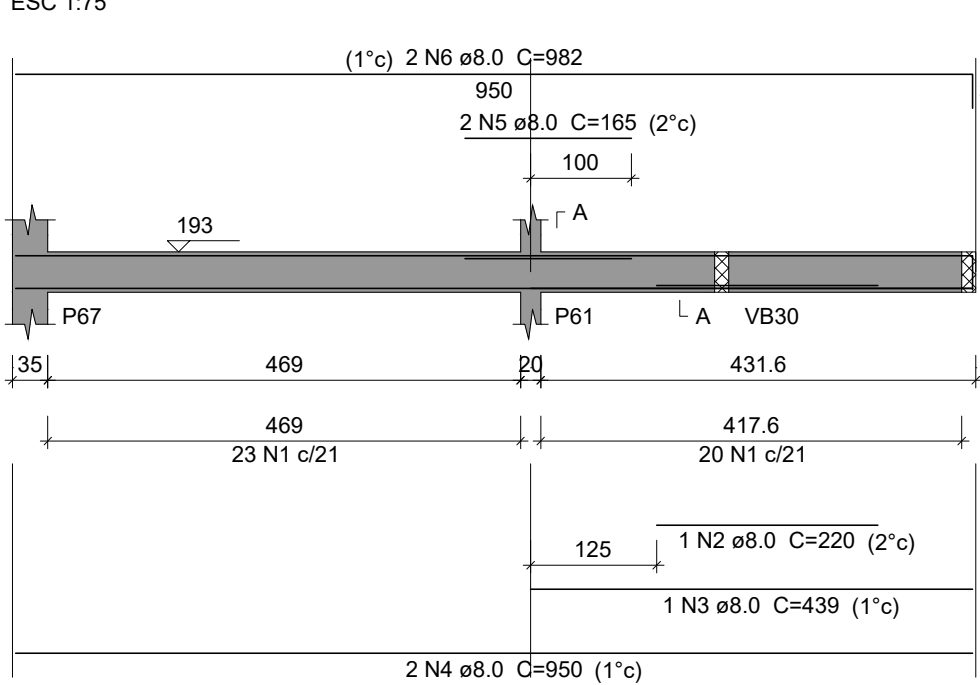
VB59 (14 x 40)



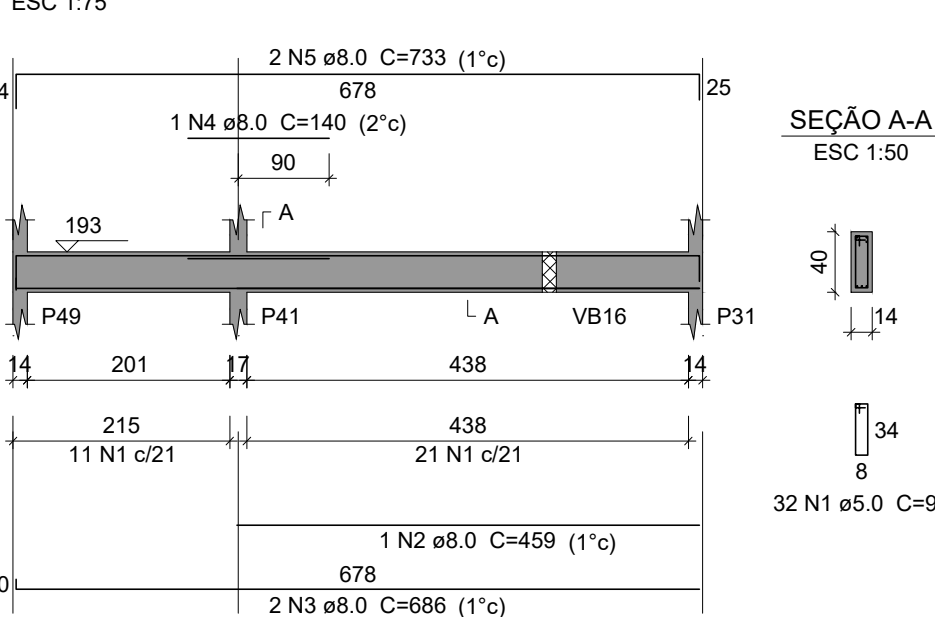
VB55 (14 x 40)



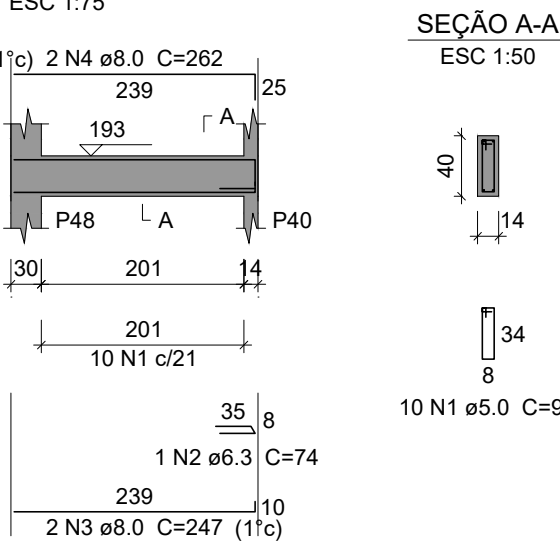
VB61 (14 x 40)



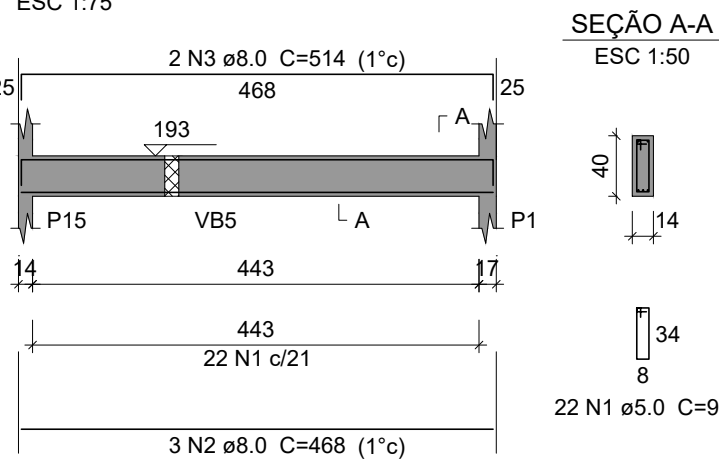
VB62 (14 x 40)



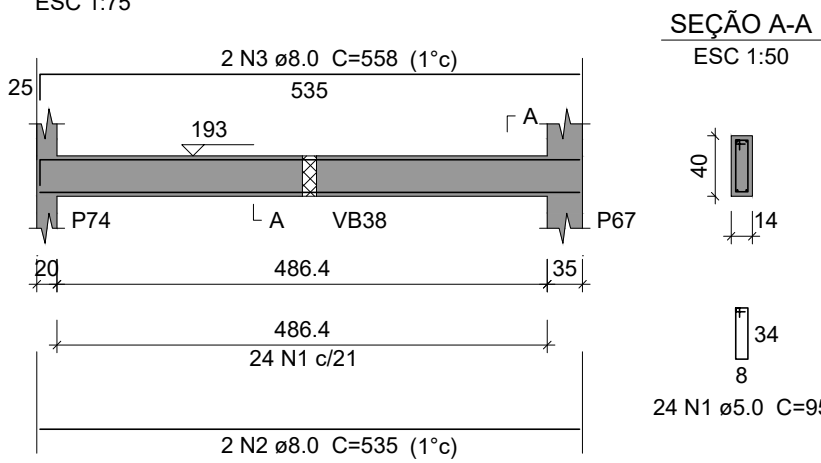
VB63 (14 x 40)



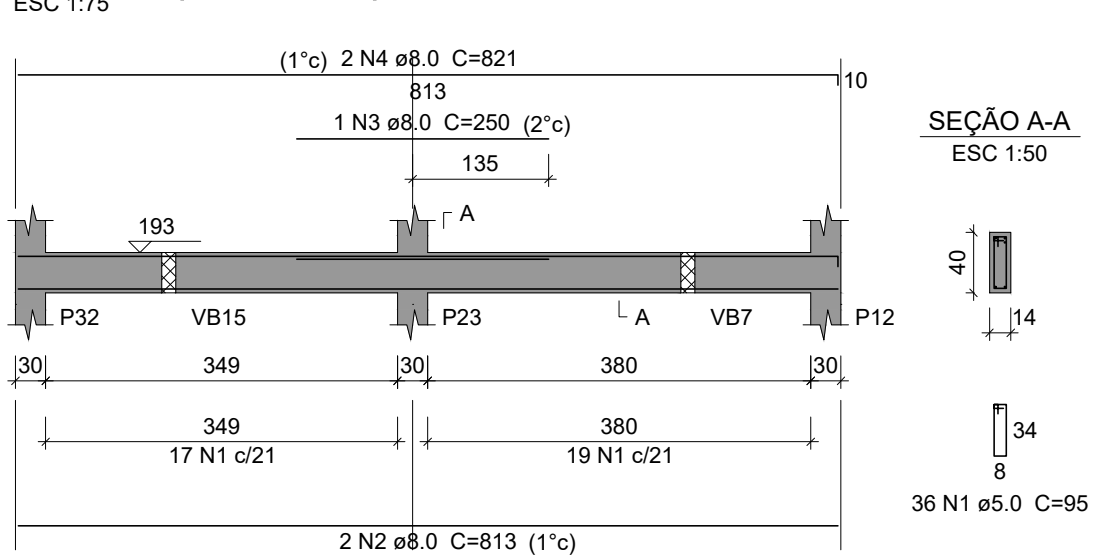
VB64 (14 x 40)



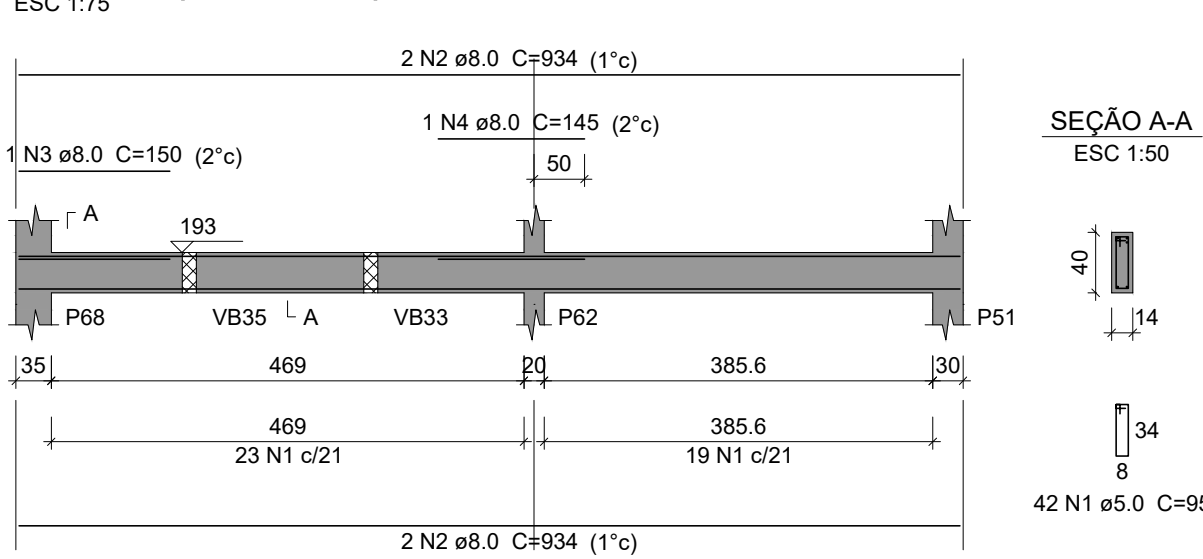
VB60 (14 x 40)



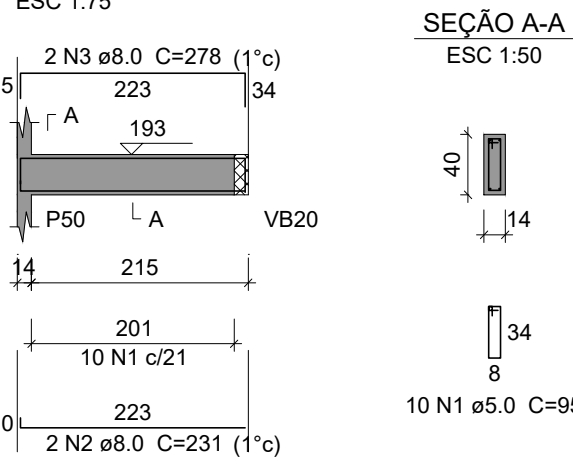
VB66 (14 x 40)



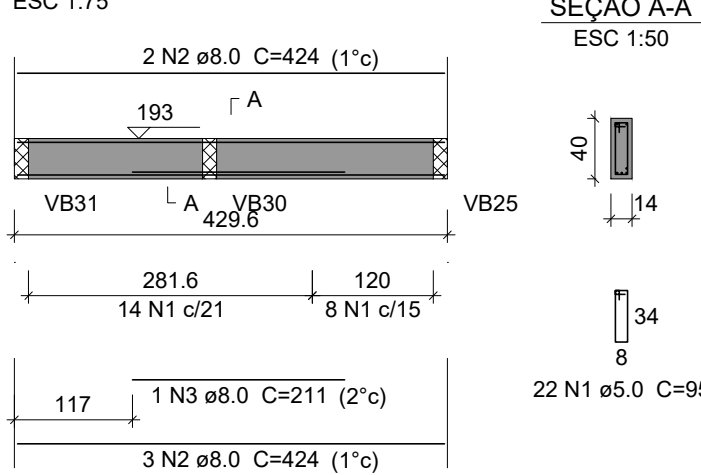
VB67 (14 x 40)



VB68 (14 x 40)



VB65 (14 x 40)



ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB49	CA60	1	5.0	26	95	2470
	CA50	2	8.0	4	614	2456
VB50	CA60	1	5.0	13	95	1235
	CA50	2	8.0	5	318	1590
VB51	CA60	1	5.0	8	125	1000
	CA50	2	8.0	4	74	74
	CA50	3	8.0	3	231	693
VB52	CA50	4	10.0	2	295	590
	CA60	1	5.0	49	95	4655
	CA50	2	8.0	2	1081	2162
	CA50	3	8.0	2	1096	2192
VB53	CA60	1	5.0	6	95	570
	CA50	2	8.0	4	133	532
VB54	CA60	1	5.0	45	95	4275
	CA50	2	10.0	1	212	212
	CA50	3	10.0	2	636	1272
	CA50	4	10.0	1	217	217
	CA50	5	10.0	2	668	1336
VB55	CA60	1	5.0	17	95	1615
	CA50	2	8.0	2	398	796
	CA50	3	8.0	2	422	844
VB56	CA60	1	5.0	36	95	3420
	CA50	2	8.0	1	199	199
	CA50	3	8.0	4	824	3296
	CA50	4	8.0	1	260	260
	CA50	5	8.0	1	152	152
VB57	CA60	1	5.0	11	95	1045
	CA50	2	6.3	1	108	108
	CA50	3	10.0	2	217	434
	CA50	4	10.0	2	263	526
VB58	CA60	1	5.0	41	95	3895
	CA50	2	8.0	2	869	1778
	CA50	3	10.0	1	255	255
	CA50	4	10.0	2	913	1826
VB59	CA60	1	5.0	27	95	2565
	CA50	2	6.3	1	74	74
	CA50	3	8.0	2	622	1244
	CA50	4	8.0	2	637	1274
VB60	CA60	1	5.0	24	95	2280
	CA50	2	8.0	2	535	1070
	CA50	3	8.0	2	558	1116
VB61	CA60	1	5.0	43	95	4085
	CA50	2	8.0	1	220	220
	CA50	3	8.0	1	439	439
	CA50	4	8.0	2	950	1900
	CA50	5	8.0	2	165	330
VB62	CA50	6	8.0	2	982	1964
	CA60	1	5.0	32	95	3040
	CA50	2	8.0	1	459	459
	CA50	3	8.0	2	686	1372
	CA50	4	8.0	1	140	140
VB63	CA50	5	8.0	2	733	1466
	CA60	1	5.0	10	95	950
	CA50	2	6.3	1	74	74
	CA50	3	8.0	2	247	494
	CA50	4	8.0	2	262	524
VB64	CA60	1	5.0	22	95	2090
	CA50	2	8.0	3	468	1404
	CA50	3	8.0	2	514	1028
VB65	CA60	1	5.0	22	95	2090
	CA50	2	8.0	5	424	2120
	CA50	3	8.0	1	211	211
VB66	CA60	1	5.0	36	95	3420
	CA50	2	8.0	2	813	1626
	CA50	3	8.0	1	250	250
	CA50	4	8.0	2	821	1642
VB67	CA60	1	5.0	42	95	3990
	CA50	2	8.0	4	934	3736
	CA50	3	8.0	1	150	150
VB68	CA60	1	5.0	10	95	950
	CA50	2	8.0	2	231	462
	CA50	3	8.0	2	278	556

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	3.3	0.9
	8.0	443	192.2
	10.0	66.7	45.2
	5.0	496.4	84.2
PESO TOTAL (kg)			
CA50	238.4	Volume de concreto (C-25) = 5.76 m³ Área de forma = 96.6 m²	
CA60	84.2		

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:

RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento das Vigas Baldrame_03/04;
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

PRANCHA:

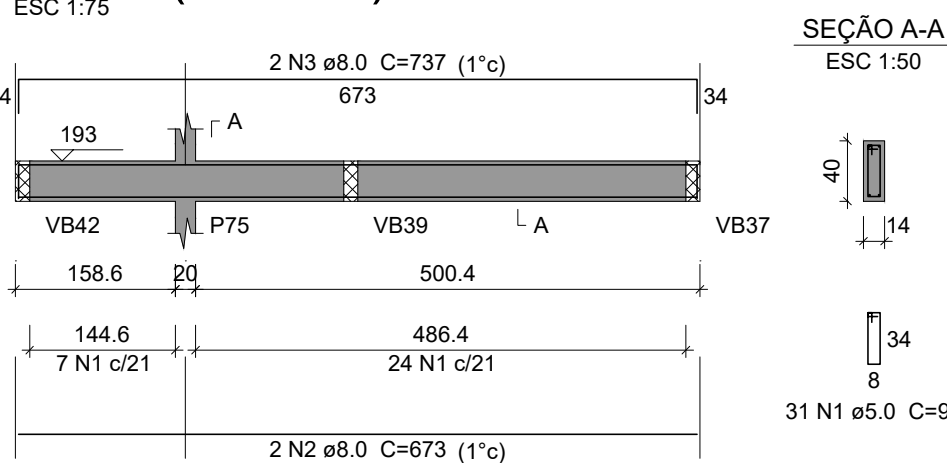
10/11



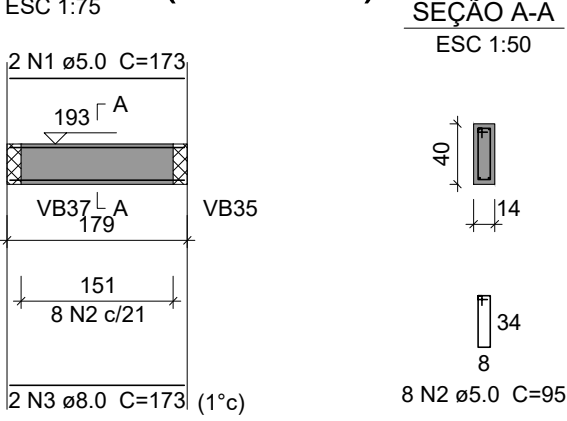
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

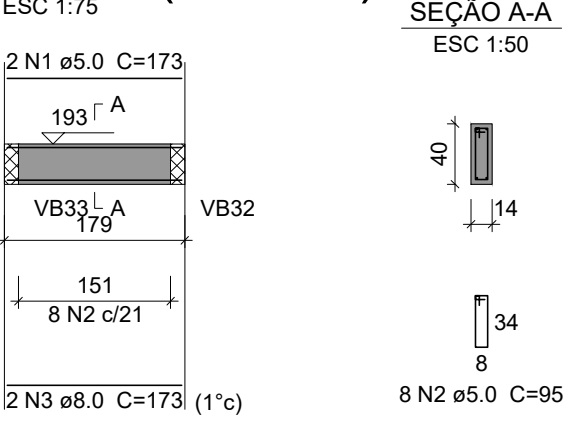
VB69 (14 x 40)



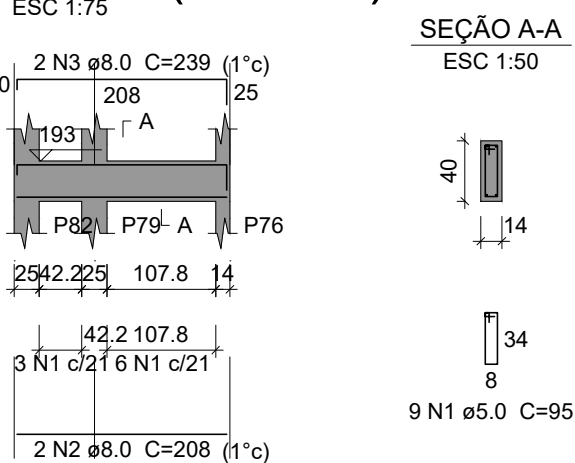
VB70 (14 x 40)



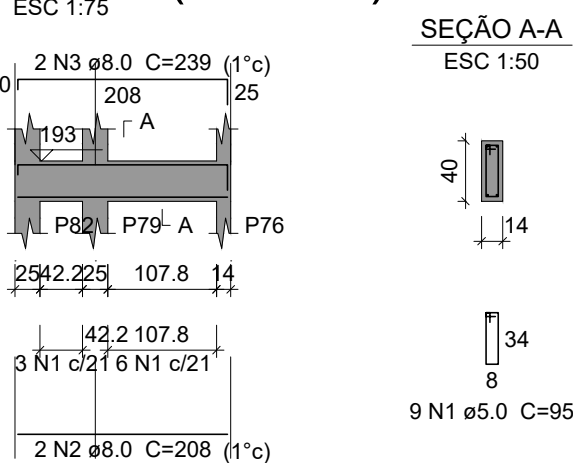
VB71 (14 x 40)



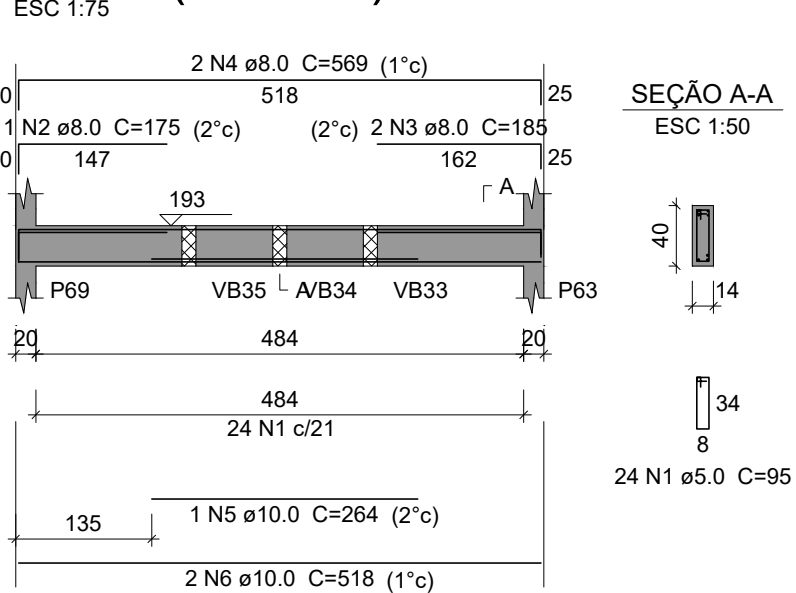
VB72 (14 x 40)



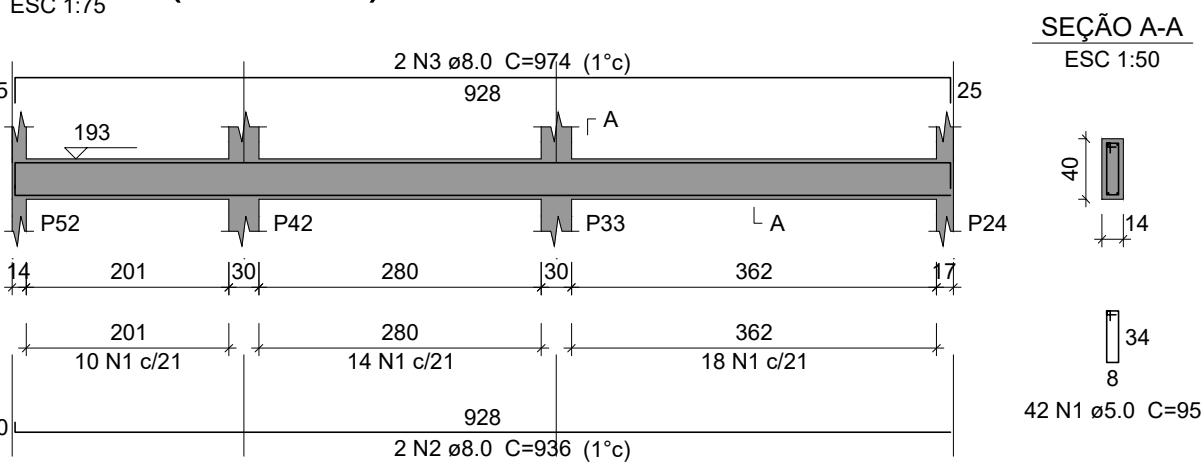
VB73 (14 x 40)



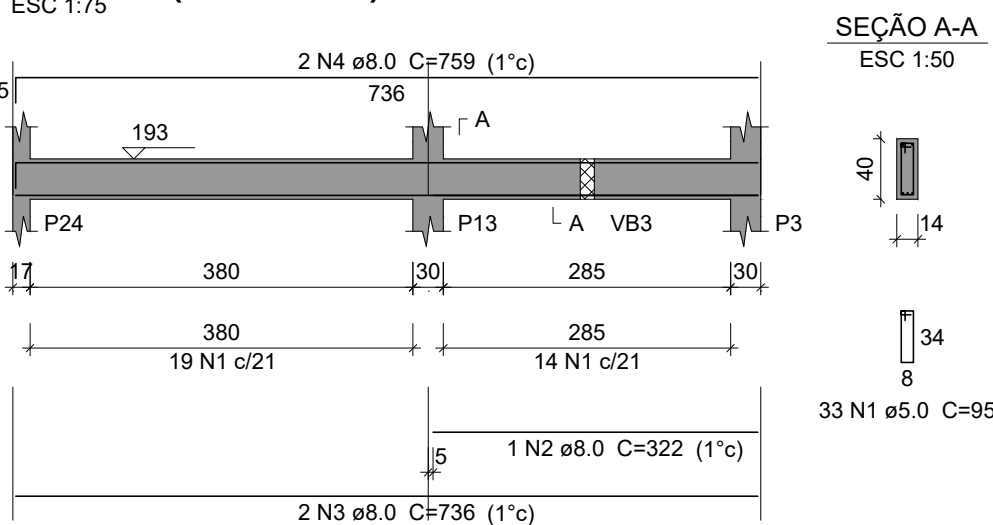
VB74 (14 x 40)



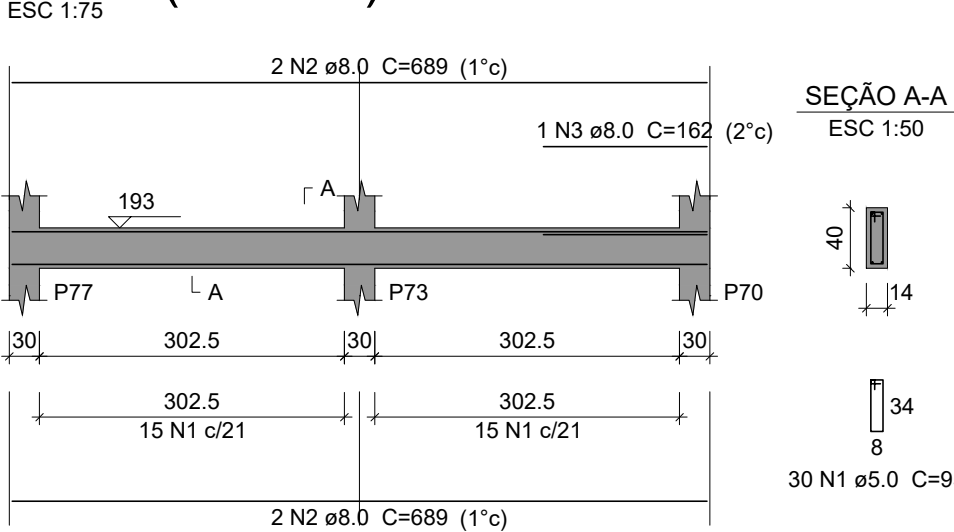
VB75 (14 x 40)



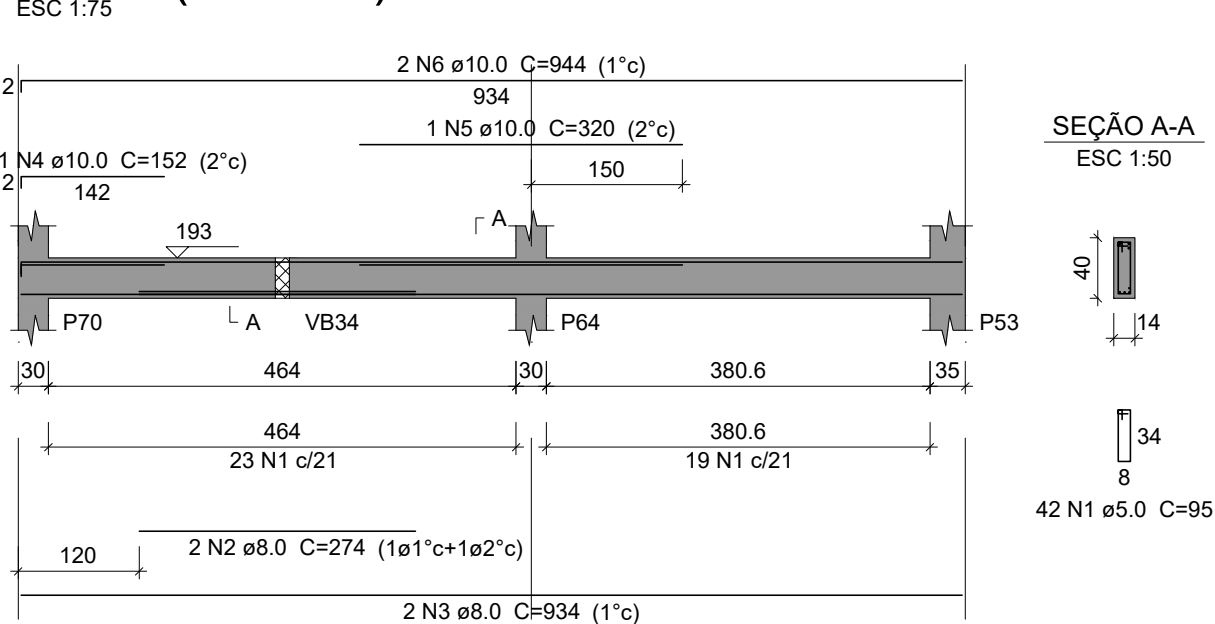
VB76 (14 x 40)



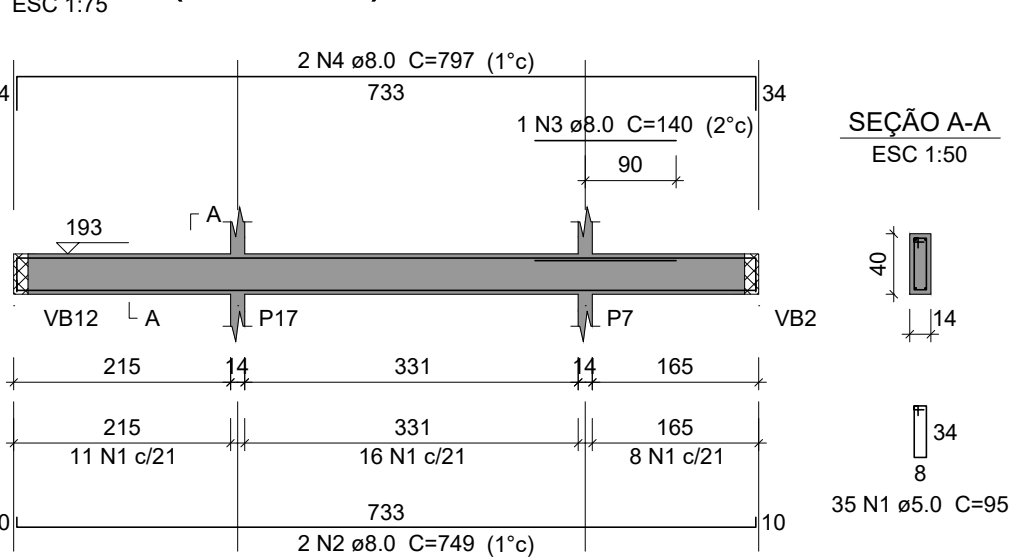
VB77 (14 x 40)



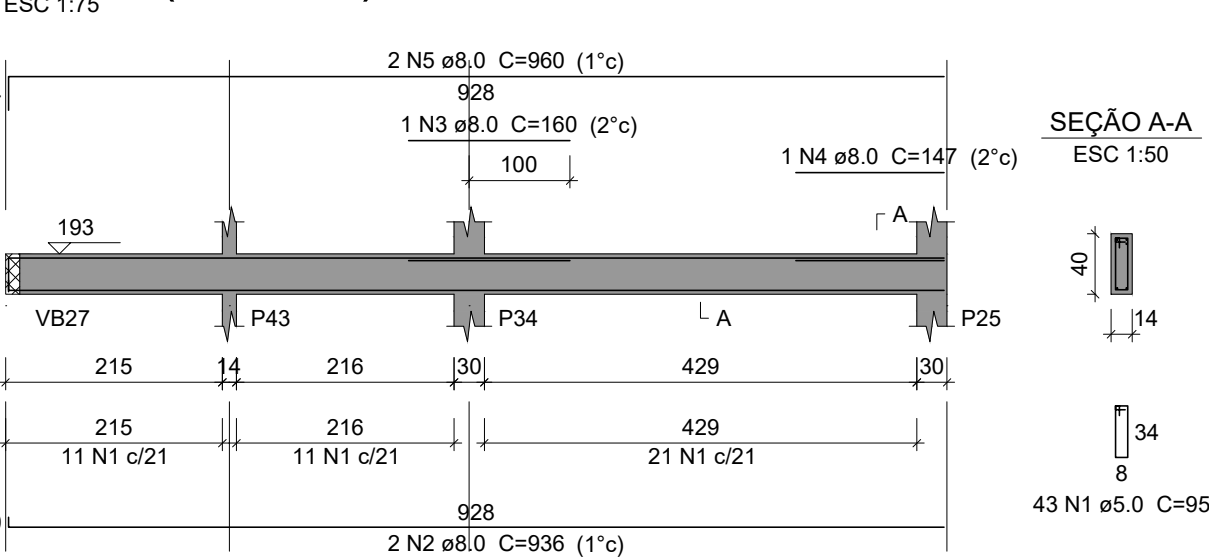
VB78 (14 x 40)



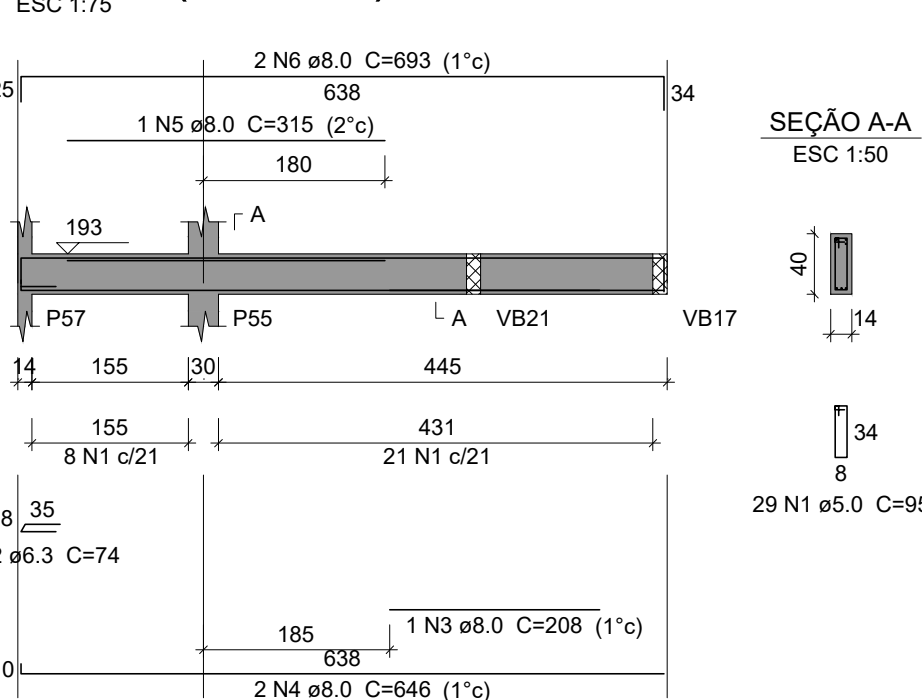
VB80 (14 x 40)



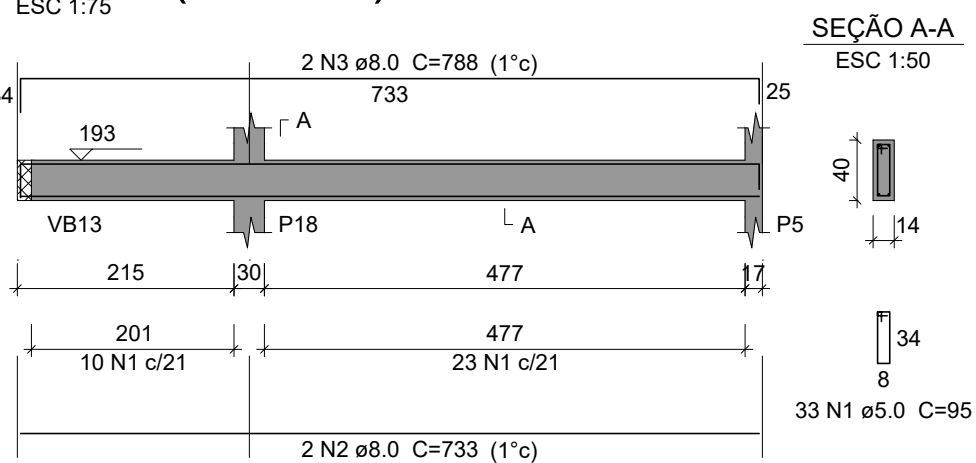
VB81 (14 x 40)



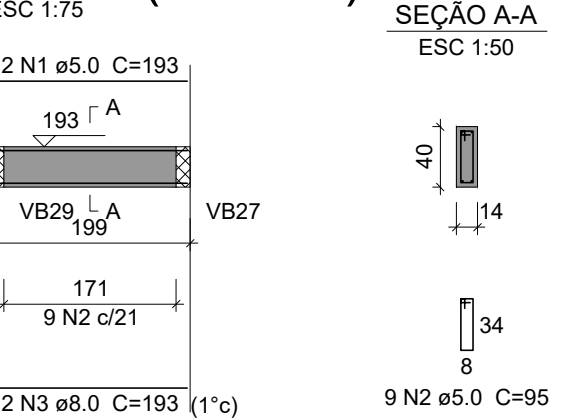
VB82 (14 x 40)



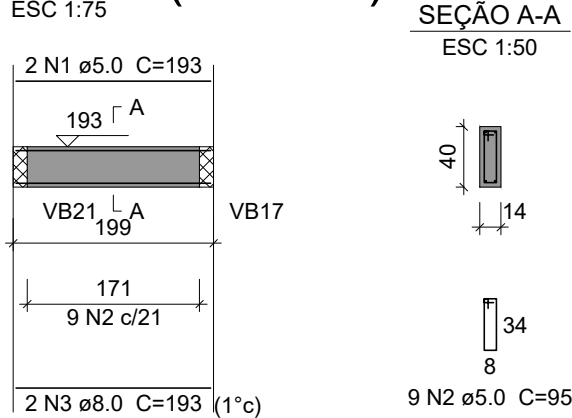
VB83 (14 x 40)



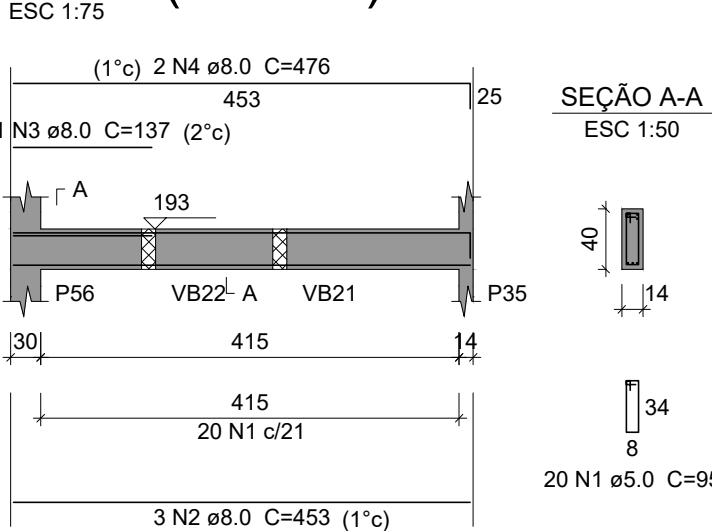
VB84 (14 x 40)



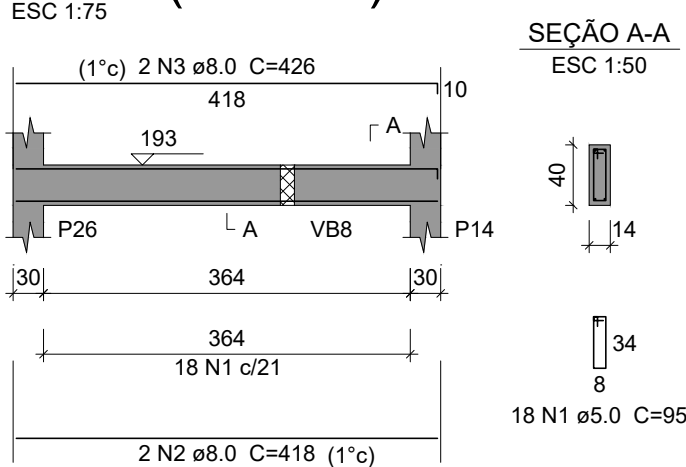
VB85 (14 x 40)



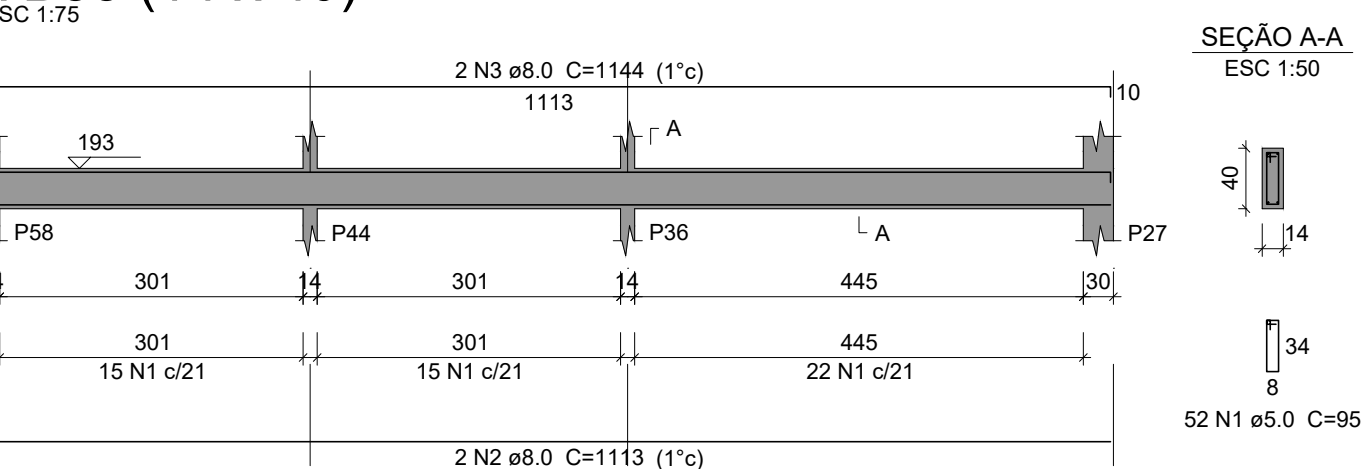
VB86 (14 x 40)



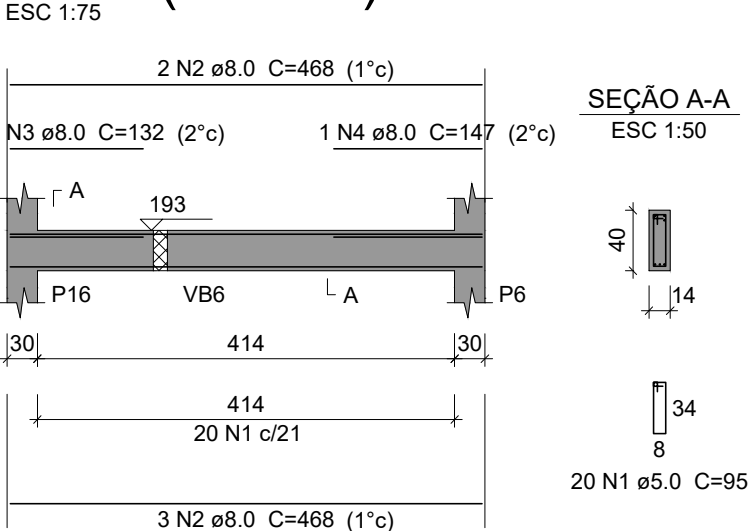
VB87 (14 x 40)



VB88 (14 x 40)



VB89 (14 x 40)



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	0.8	0.2
	8.0	454.3	197.2
	10.0	40.9	27.7
CA60	5.0	501.1	85

PESO TOTAL (kg)
CA50 225.1
CA60 85

Volume de concreto (C-25) = 5.75 m³
Área de forma = 96.72 m²

PROJETO DE FUNDAÇÃO

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:

RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento das Vigas Baldrame_04/04;
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

PRANCHA:

1/11



MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA