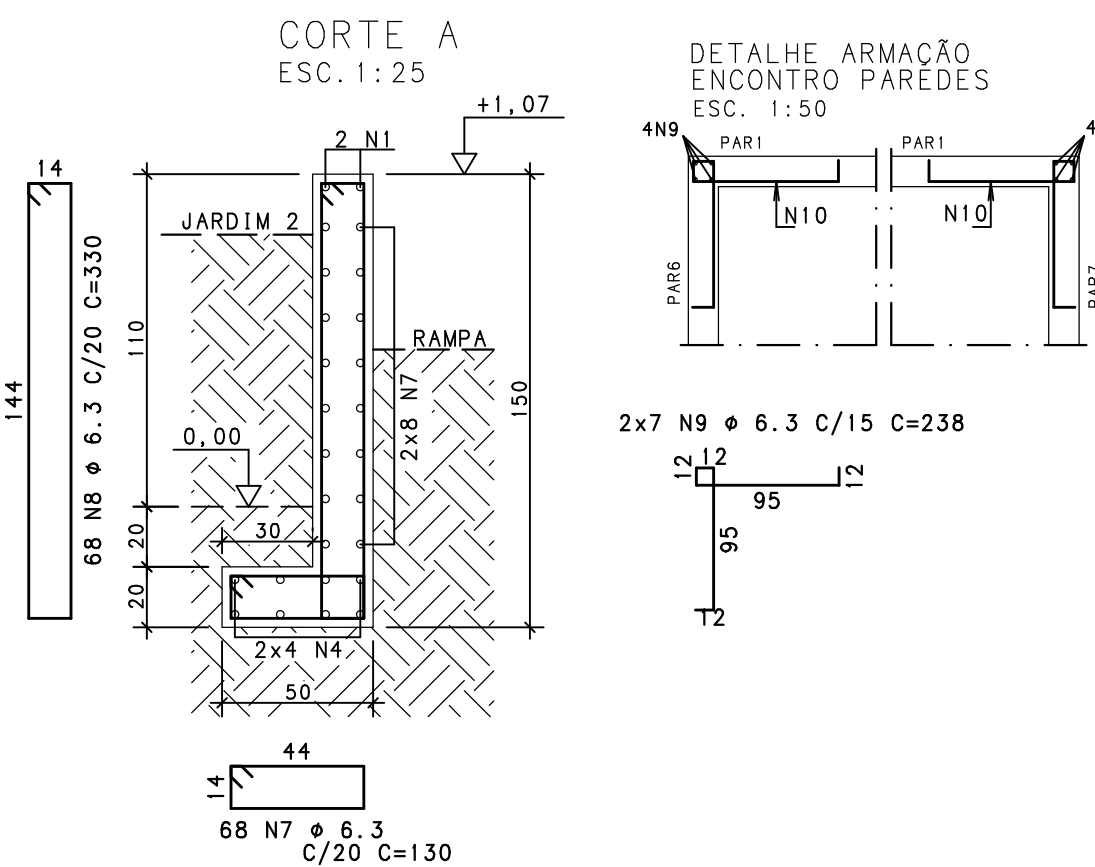
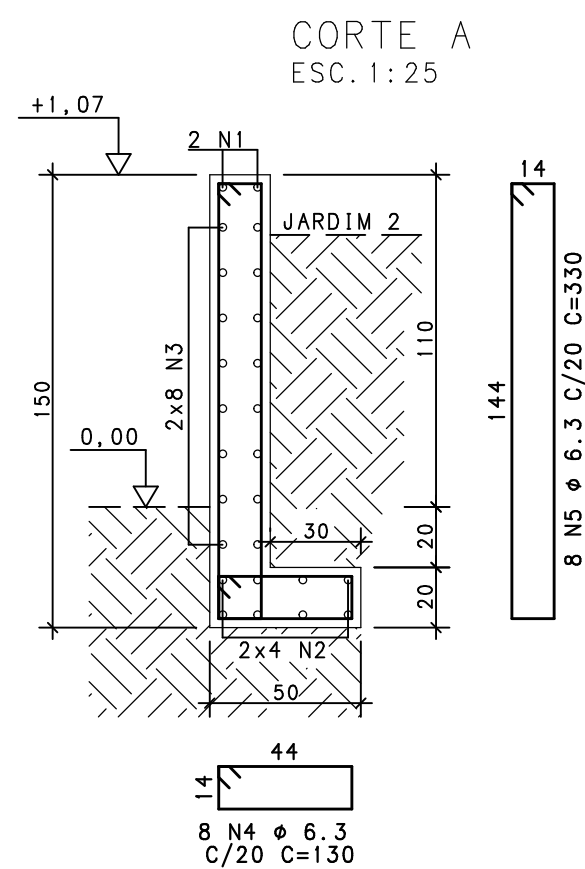


Technical drawing of a bridge deck cross-section (Fig. 1.10) showing reinforcement details. The drawing includes a top view of the deck with reinforcement bars (N1, N2, N3, N4, N5, N6, N7, N8) and stirrups (C=1200, C=300, C=256, C=267). It also shows a side view of the deck with reinforcement bars (N9, N10) and stirrups (C=143, C=130). The drawing is labeled "PROJEÇÃO DA RAMPA" and "PROJEÇÃO DA RAMPA".

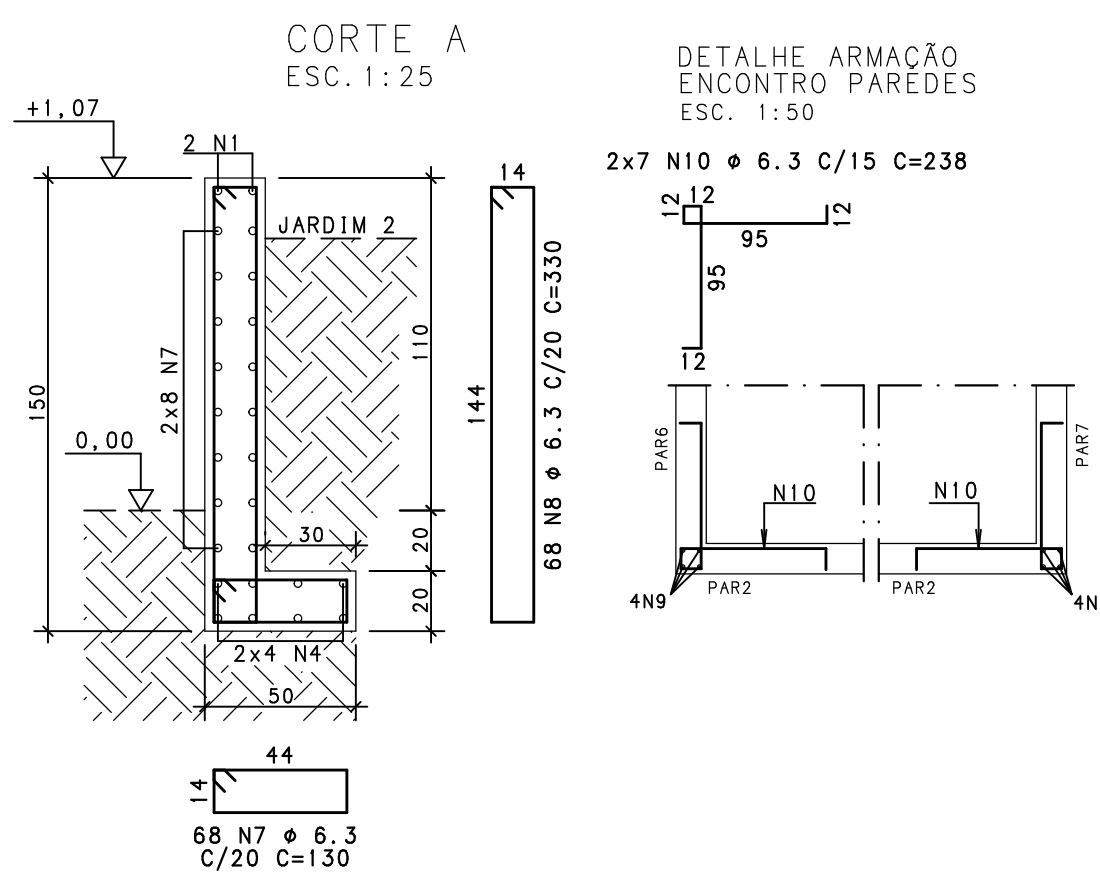


The plan view shows a rectangular building layout. At the top, there's a section labeled "2 N1 ø 10 C=259" with a width of "30". Below it is a central area labeled "199" containing a triangle and the number "(165)". To the right of this is another section labeled "8 N7 N8 C/20" with a width of "30". Below these are two large rectangular areas labeled "PAR2" and "PAR1" respectively, separated by a horizontal line. These areas contain multiple horizontal lines representing internal divisions. Below the PAR areas is a section labeled "4 ø 10" with a width of "14". At the bottom, there's a section labeled "2x4 N2 ø 10 C=227" with a width of "14". Other labels include "28 x N3 ø 6.3 C=226" and "198" near the bottom left corner.



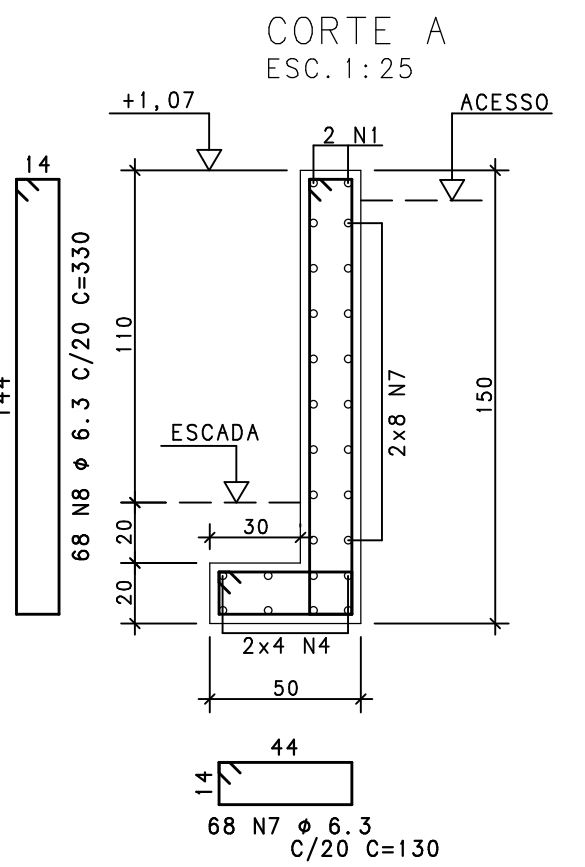
The drawing shows a rectangular reinforced concrete slab with the following specifications:

- Top View (Superior):**
 - Overall dimensions: 1170 (width) x 270 (depth).
 - Reinforcement: 2 N1 ϕ 10 C=1200 (top), 2 N2 ϕ 10 C=300 (bottom).
 - Internal dimensions: 1155 (width), 270 (depth).
 - Reinforcement spacing: 2 ϕ 10 (top), 2 ϕ 10 (bottom).
- Bottom View (Inferior):**
 - Overall dimensions: 1186 (width) x 253 (depth).
 - Reinforcement: 2x8 N5 ϕ 6.3 C=1200 (top), 2x8 N6 ϕ 6.3 C=256 (bottom).
 - Internal dimensions: 1166 (width), 253 (depth).
 - Reinforcement spacing: 4 ϕ 10 (top), 4 ϕ 10 (bottom).
- Side View (Left):**
 - Overall height: 143.
 - Reinforcement: 4 N9 ϕ 10 C=143.
 - Internal height: 130.
 - Reinforcement spacing: 7 N10 ϕ 20 C=130.



Technical drawing of a rectangular plate with the following specifications:

- Top Section:** A horizontal section with a width of 176 and a height of 30. It contains two holes labeled "2 N1 Ø 10 C=236".
- Middle Section:** A central section with a width of 176 and a height of 8. It contains four holes labeled "N7 N8 C/20" and "2 Ø 10". The distance between the centerlines of the first two holes is indicated as "(162.5)".
- Bottom Section:** A bottom section with a width of 176 and a height of 4. It contains two holes labeled "2x4 N3 Ø 10 C=204".
- Overall Dimensions:** The total width of the plate is 176, and the total height is 42 (30 + 8 + 4).
- Other Labels:** The label "PAR3" is located on the left side of the middle section.

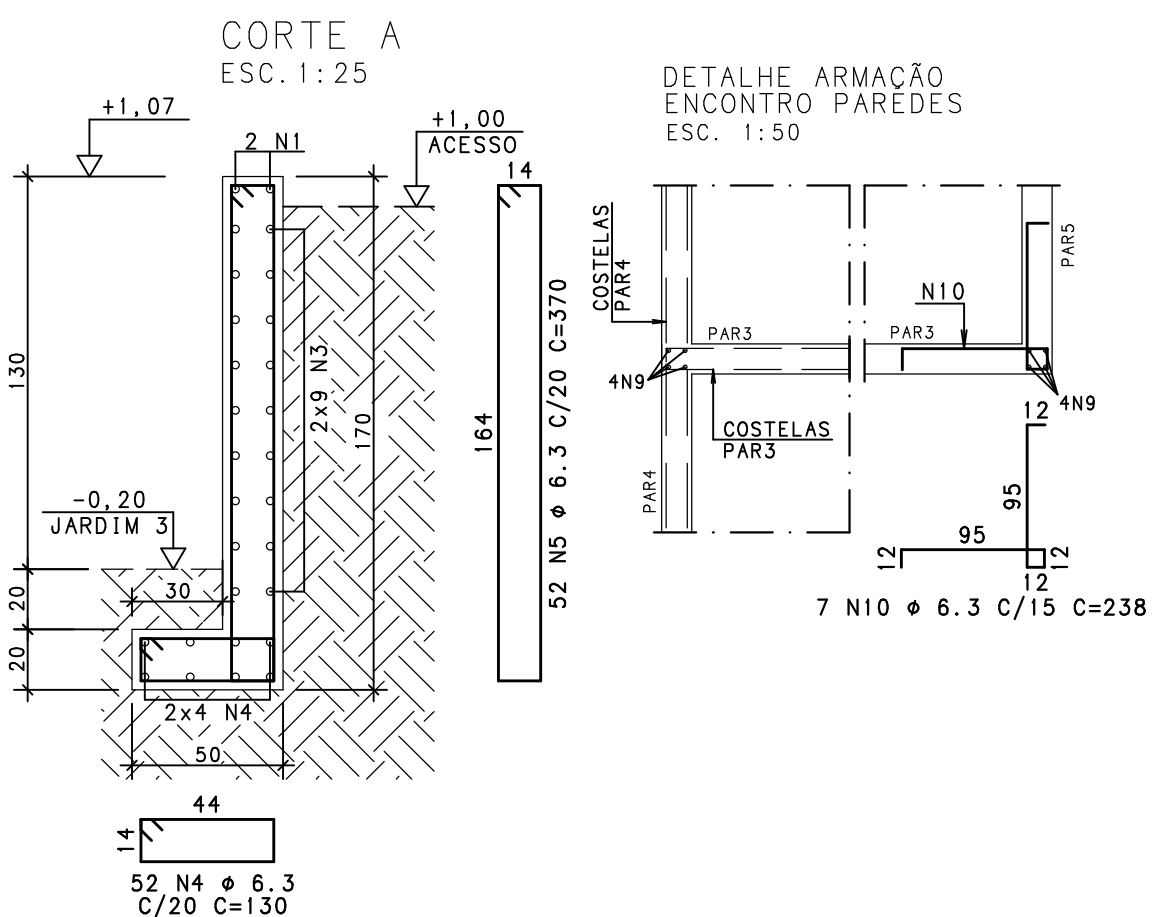


	AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO	
					UNIT (cm)	TOTAL (cm)
PAR 1	50A	1	10	2	1200	2400
	50A	2	10	2	300	600
	50A	3	10	8	1200	9600
	50A	4	10	8	2567	2136
	50A	5	6, 3	16	1200	19200
	50A	6	6, 3	16	256	4096
	50A	7	6, 3	68	130	8840
	50A	8	6, 3	68	330	22440
PAR 2	50A	9	10	22	143	3146
	50A	1	10	2	1200	2400
	50A	2	10	2	300	600
	50A	3	10	8	1200	9600
	50A	4	10	8	2567	2136
	50A	5	6, 3	16	1200	19200
	50A	6	6, 3	16	256	4096
	50A	7	6, 3	68	130	8840
PAR 3	50A	8	6, 3	68	330	22440
	50A	9	10	14	143	1144
	50A	10	6, 3	14	238	3332
	50A	1	10	2	1129	2258
	50A	2	10	8	1097	8776
	50A	3	6, 3	18	1096	15728
	50A	4	6, 3	52	130	6760
	50A	5	6, 3	52	370	19240
PAR 4	50A	9	10	8	163	1304
	50A	10	6, 3	7	238	1666
	50A	1	10	2	1077	2154
	50A	2	10	8	1045	8360
	50A	3	6, 3	16	1044	16704
	50A	4	6, 3	50	130	6500
	50A	5	6, 3	50	370	18500
	PAR 5	50A	1	10	2	236
50A		3	10	8	204	1632
50A		5	6, 3	16	204	3264
50A		7	6, 3	68	130	8840
50A		8	6, 3	68	330	22440
50A		1	10	2	259	518
50A		2	10	8	227	1816
50A		3	6, 3	16	226	3616
PAR 6	50A	4	6, 3	9	130	1040
	50A	5	6, 3	8	330	2640
	50A	1	10	2	259	518
	50A	2	10	8	227	1816
	50A	3	6, 3	16	226	3616
	50A	4	6, 3	9	130	1040
	50A	5	6, 3	8	330	2640
	PAR 7	50A	1	10	2	259
50A		2	10	8	227	1816
50A		3	6, 3	16	226	3616
50A		4	6, 3	9	130	1040
50A		5	6, 3	8	330	2640
50A		1	10	2	259	518
50A		2	10	8	227	1816
50A		3	6, 3	16	226	3616

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
50A	6.3	2507	614
50A	10	634	391
Peso Total	50A =		1005 kg

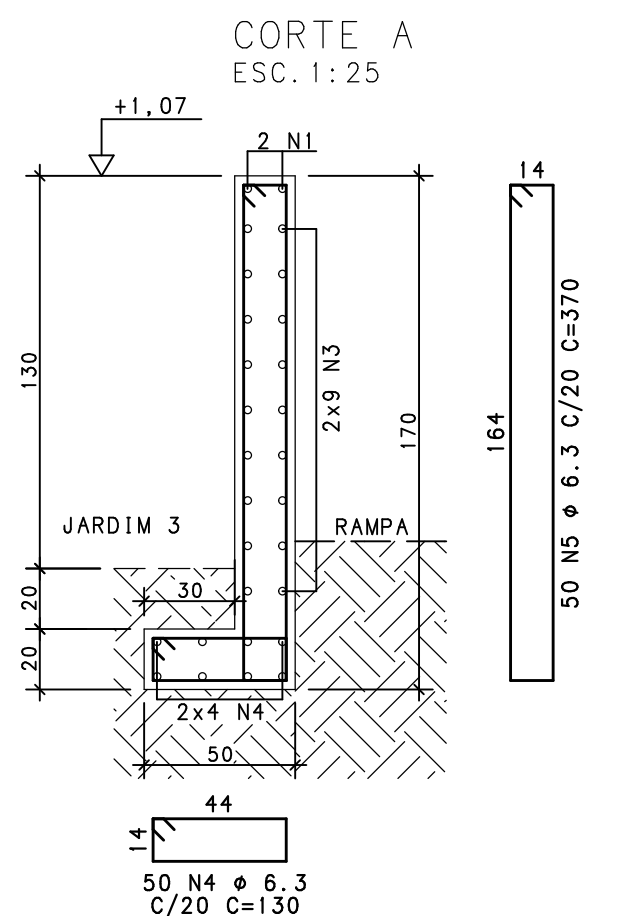
Technical drawing of a rectangular building footprint. The drawing includes the following details:

- Overall Dimensions:**
 - Length: 1069
 - Width: 1069
- Structural Details:**
 - Top Edge:** 2 N1 ϕ 10 C=1129
 - Bottom Edge:** 2x4 N2 ϕ 10 C=1097
 - Left Edge:** 4 N9 ϕ 10 C=163
 - Right Edge:** 4 N9 ϕ 10 C=163
 - Internal Longitudinal Members:** 2 ϕ 10 (top), 4 ϕ 10 (bottom)
 - Internal Transverse Members:** 7 N10 C/20 (top), 4 ϕ 10 (bottom)
 - Internal Diagonal Members:** 4 ϕ 10 (bottom)
 - Internal Vertical Members:** 2 N4 N5 C/20 (1035) (top), 2x9 N3 ϕ 6.3 C=1096 (bottom)
- Annotations:**
 - Section lines A-A and B-B are indicated.
 - Dimensions are given in millimeters (mm).
 - Reinforcement bars are specified by diameter (ϕ) and spacing (C).

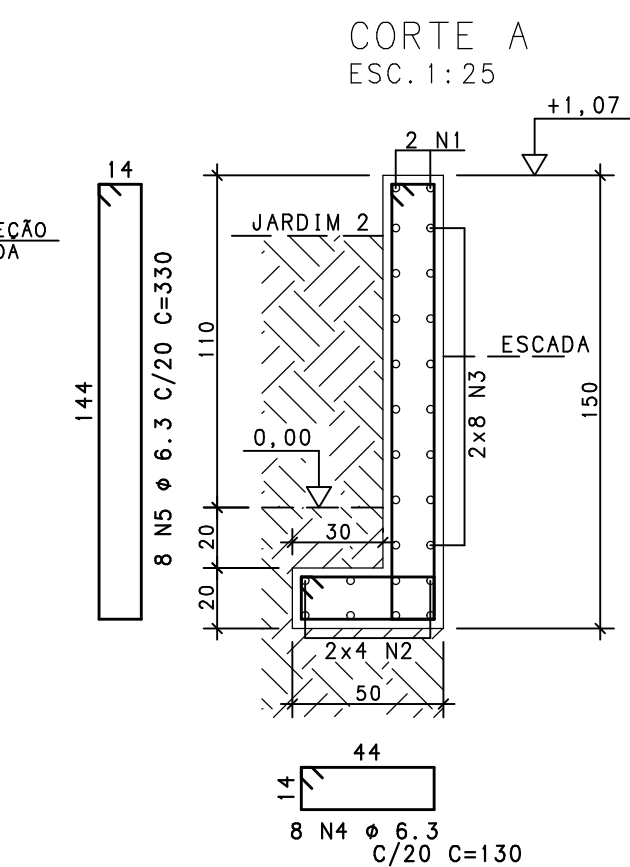


Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes a top view of the deck with reinforcement bars (N1, N2, N3, N4, N5) and a side view showing the profile of the deck and the reinforcement layout. Key dimensions and labels include:

- Top view labels: 2 N1 ø 10 C=1077, 1017, 30, 23 N4 N5 C/20 (460.5), 2 ø 10, PROJECÇÃO DA RAMPA, 27 N4 N5 C/20 (542.5), 2 ø 10, 4 ø 10, 4 ø 10, 1016, 2x8 N3 ø 6.3 C=1044, 1017, 2x4 N2 ø 10 C=1045, 14, 30.
- Side view labels: 23 N4 N5 C/20 (460.5), 2 ø 10, PROJECÇÃO DA RAMPA, 27 N4 N5 C/20 (542.5), 2 ø 10, 4 ø 10, 4 ø 10, 1016, 2x8 N3 ø 6.3 C=1044, 1017, 2x4 N2 ø 10 C=1045, 14, 30.



The schematic diagram illustrates the experimental setup for studying the effect of a magnetic field on the electron transport properties of a nanowire device. The central component is a rectangular nanowire device labeled "NANOWIRE". It consists of two horizontal leads connected by a central section containing several vertical segments. The top lead is labeled "8 N7 N8 C/20 (165) 2 ± 1.0" and has a width dimension of "2 N1 φ 10 C=259". The bottom lead is labeled "2x8 N3 φ 6.3 C=226" and has a width dimension of "2x4 N2 φ 10 C=227". A central gate electrode, labeled "(cos(θ)) 198", is positioned below the nanowire. The entire device is enclosed within a frame defined by dimensions "30" at the top and bottom, and "14" on the left and right sides. Arrows indicate the direction of current flow through the device.



1. DIMENSÕES EM CENTÍMETROS, ELEVACOES EM METROS
2. CONCRETO ESTRUTURAL:
Fck>= 25 MPa (ESTACAS TIPO BROCA)
CONSUMO DE CIMENTO>=280,0kg/m3; RELACÃO A/C=0,6 (MÁXIMO);
DIÂMETRO DO AGREGADO ENTRE 9,5 E 25mm; SLUMP ENTRE 100 E 160mm.
Fck>= 25 MPa (DEMAIS ELEMENTOS ESTRUTURAIS):
CONSUMO DE CIMENTO >=280,0kg/m3.
3. FATOR ÁGUA/CIMENTO MÁXIMO: 0,60
4. CLASSE DE AGRESSIVIDADE II - URBANA
5. MÓDULO DE ELASTICIDADE INICIAL A 28 DIAS IGUAL A 28000 MPa
6. REALIZAR OS PROCEDIMENTOS DE CURA, RETIRADA DE FORMAS E DO ESCORAMENTO CONFORME NBR 14931:2004 E MEMORIAL DESCRITIVO.
PROCEDER COM A CURA OMIDA POR NO MÍNIMO 07 (SETE) DIAS OU UTILIZAR A CURA QUÍMICA DOS ELEMENTOS DE CONCRETO.
7. A EXECUÇÃO DA ESTRUTURA DEVERÁ CONTAR COM O ACOMPANHAMENTO DE UM TECNÓLOGISTA DE CONCRETO
8. O ENGENHEIRO RESPONSÁVEL PELA OBRA DEVERÁ OBEDECER AS RECOMENDAÇÕES DAS NORMAS TÉCNICAS APLICÁVEIS, DEDICANDO ESPECIAL ATENÇÃO ÀS SEGUINTE ATIVIDADES:
 - 8.1. CONCRETO: PREPARO, CONTROLE, RECEBIMENTO, TRANSPORTE, LANÇAMENTO, ADENSAMENTO E CURA
 - 8.2. FORMA: CONFERÊNCIA DAS MEDIDAS E POSIÇÕES, LIMPEZA, ESTANQUEIDADE, SATURAÇÃO DAS FORMAS ABSORVENTES (RETIRAR EXCESSO DE ÁGUA), CUIDADO COM O USO DOS DESMOLDANTES E RETIRADA DAS FORMAS
 - 8.3. ARMADÇA: LIMPEZA, MONTAGEM, COBRIMENTO (USO DE ESPACADORES PLÁSTICOS ADEQUADOS), E GARANTIA DA POSIÇÃO DAS ARMADURAS ANTES E DURANTE A CONCRETAGEM
9. COBRIMENTO MÍNIMO DA ARMADURA:
PISOS,VIGAS E PAREDES=3,0cm; PILARES=2,5cm; BLOCOS E ESTACAS=5,0CM
OBRA COM RÍGIDO CONTROLE DE QUALIDADE.
10. RECOMENDA-SE QUE OS MATERIAIS (ACO E CONCRETO) UTILIZADOS NESTE PROJETO SEJAM SUBMETIDOS A ENSAIOS TECNOLÓGICOS
11. PREVER DRENAGEM E/OU IMPERMEABILIZAÇÃO PARA AS CORTINAS (CONTENÇÕES).
12. CONFERIR MEDIDAS NO LOCAL.

EXE	00	PROJETO EXECUTIVO - LICITAÇÃO OBRA	EFICÁCIA	31/07/2019
REVCOMP	02	REVISÃO PROJETO EXECUTIVO - REF EXE 2	EFICÁCIA	24/07/2019
REVCOMP	01	REVISÃO PROJETO EXECUTIVO - REF EXE	EFICÁCIA	03/07/2019
REVCOMP	00	EMISSION INICIAL EXECUTIVO	EFICÁCIA	25/04/2019
ANT	01	REVISÃO ANTEPROJETO	EFICÁCIA	20/02/2019
ANT	00	EMISSION INICIAL ANTEPROJETO	EFICÁCIA	21/11/19
TIPO	REV	DESCRIÇÃO	DESENHO	DATA

	REVISÕES
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ENDEREÇO:	ÁREA TERRENO:
RUA JOSÉ CALIL AHOUGI, LOTE F, BAIXADA DO PARAIBUNA	2.996,30m2
	ÁREA CONSTRUÍDA:
	7.266,36m2
PROPRIETÁRIO:	CNPJ:
	20.971.057/0001-45
PROCURADORIA GERAL DE JUSTIÇA DO ESTADO DE MINAS GERAIS	

PROJETO DE ESTRUTURA DE CONCRETO ARMADO			
EMPRESA:		CNPJ:	
<div>ENGENHEIRO FABRÍCIO SILVA LIMA</div> <div>CREA: 80.082/D-MG</div> <div>EFICÁCIA PROJETOS E CONSULTORIA LTDA</div>		<div>06.301.115/0001-00</div>	
RESPONSÁVEL TÉCNICO:		CREA:	
<div>NELSON URIAS PINTO GARIGLIO DA SILVA</div>		<div>82.624/D-MG</div>	
CONTEÚDO:		DATA:	FOLHA:
ÁREA EXTERNA - RAMPAS		31/07/20	125/126
ARMAÇÃO DE PAREDES		ESCALA:	
		INDICADA	

COMPTON 9400 9400 PENS - FORMATS A1 (941 x 664mm)						
RED	YELLOW	GREEN	CYAN	BLUE	MAGENTA	WHITE
101	0.25	0.50	0.13	0.30	0.40	1.0
0.80						0.18