

## CORTE A-A

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ESC. 1:75

The drawing illustrates the structural details of a reinforced concrete slab. The cross-section (top) shows a total thickness of 100 cm, with a 30 cm concrete cover. It details the reinforcement for the top (N1, N2, N3, N4, N5) and bottom (N6, N7, N8, N9, N10, N11, N12, N13, N14, N15) layers, including the distribution of reinforcement bars (N10, N11, N12, N13, N14, N15) and the placement of stirrups (N16, N17, N18, N19, N20, N21, N22, N23, N24, N25, N26, N27, N28, N29, N30, N31, N32, N33, N34, N35, N36, N37, N38, N39, N40, N41, N42, N43, N44, N45, N46, N47, N48, N49, N50, N51, N52, N53, N54, N55, N56, N57, N58, N59, N60, N61, N62, N63, N64, N65, N66, N67, N68, N69, N70, N71, N72, N73, N74, N75, N76, N77, N78, N79, N80, N81, N82, N83, N84, N85, N86, N87, N88, N89, N90, N91, N92, N93, N94, N95, N96, N97, N98, N99, N100, N101, N102, N103, N104, N105, N106, N107, N108, N109, N110, N111, N112, N113, N114, N115, N116, N117, N118, N119, N120, N121, N122, N123, N124, N125, N126, N127, N128, N129, N130, N131, N132, N133, N134, N135, N136, N137, N138, N139, N140, N141, N142, N143, N144, N145, N146, N147, N148, N149, N150, N151, N152, N153, N154, N155, N156, N157, N158, N159, N160, N161, N162, N163, N164, N165, N166, N167, N168, N169, N170, N171, N172, N173, N174, N175, N176, N177, N178, N179, N180, N181, N182, N183, N184, N185, N186, N187, N188, N189, N190, N191, N192, N193, N194, N195, N196, N197, N198, N199, N200, N201, N202, N203, N204, N205, N206, N207, N208, N209, N210, N211, N212, N213, N214, N215, N216, N217, N218, N219, N220, N221, N222, N223, N224, N225, N226, N227, N228, N229, N230, N231, N232, N233, N234, N235, N236, N237, N238, N239, N240, N241, N242, N243, N244, N245, N246, N247, N248, N249, N250, N251, N252, N253, N254, N255, N256, N257, N258, N259, N260, N261, N262, N263, N264, N265, N266, N267, N268, N269, N270, N271, N272, N273, N274, N275, N276, N277, N278, N279, N280, N281, N282, N283, N284, N285, N286, N287, N288, N289, N290, N291, N292, N293, N294, N295, N296, N297, N298, N299, N300, N301, N302, N303, N304, N305, N306, N307, N308, N309, N310, N311, N312, N313, N314, N315, N316, N317, N318, N319, N320, N321, N322, N323, N324, N325, N326, N327, N328, N329, N330, N331, N332, N333, N334, N335, N336, N337, N338, N339, N340, N341, N342, N343, N344, N345, N346, N347, N348, N349, N350, N351, N352, N353, N354, N355, N356, N357, N358, N359, N360, N361, N362, N363, N364, N365, N366, N367, N368, N369, N370, N371, N372, N373, N374, N375, N376, N377, N378, N379, N380, N381, N382, N383, N384, N385, N386, N387, N388, N389, N390, N391, N392, N393, N394, N395, N396, N397, N398, N399, N400, N401, N402, N403, N404, N405, N406, N407, N408, N409, N410, N411, N412, N413, N414, N415, N416, N417, N418, N419, N420, N421, N422, N423, N424, N425, N426, N427, N428, N429, N430, N431, N432, N433, N434, N435, N436, N437, N438, N439, N440, N441, N442, N443, N444, N445, N446, N447, N448, N449, N450, N451, N452, N453, N454, N455, N456, N457, N458, N459, N460, N461, N462, N463, N464, N465, N466, N467, N468, N469, N470, N471, N472, N473, N474, N475, N476, N477, N478, N479, N480, N481, N482, N483, N484, N485, N486, N487, N488, N489, N490, N491, N492, N493, N494, N495, N496, N497, N498, N499, N500, N501, N502, N503, N504, N505, N506, N507, N508, N509, N510, N511, N512, N513, N514, N515, N516, N517, N518, N519, N520, N521, N522, N523, N524, N525, N526, N527, N528, N529, N530, N531, N532, N533, N534, N535, N536, N537, N538, N539, N540, N541, N542, N543, N544, N545, N546, N547, N548, N549, N550, N551, N552, N553, N554, N555, N556, N557, N558, N559, N560, N561, N562, N563, N564, N565, N566, N567, N568, N569, N570, N571, N572, N573, N574, N575, N576, N577, N578, N579, N580, N581, N582, N583, N584, N585, N586, N587, N588, N589, N590, N591, N592, N593, N594, N595, N596, N597, N598, N599, N600, N601, N602, N603, N604, N605, N606, N607, N608, N609, N610, N611, N612, N613, N614, N615, N616, N617, N618, N619, N620, N621, N622, N623, N624, N625, N626, N627, N628, N629, N630, N631, N632, N633, N634, N635, N636, N637, N638, N639, N640, N641, N642, N643, N644, N645, N646, N647, N648, N649, N650, N651, N652, N653, N654, N655, N656, N657, N658, N659, N660, N661, N662, N663, N664, N665, N666, N667, N668, N669, N670, N671, N672, N673, N674, N675, N676, N677, N678, N679, N680, N681, N682, N683, N684, N685, N686, N687, N688, N689, N690, N691, N692, N693, N694, N695, N696, N697, N698, N699, N700, N701, N702, N703, N704, N705, N706, N707, N708, N709, N710, N711, N712, N713, N714, N715, N716, N717, N718, N719, N720, N721, N722, N723, N724, N725, N726, N727, N728, N729, N730, N731, N732, N733, N734, N735, N736, N737, N738, N739, N740, N741, N742, N743, N744, N745, N746, N747, N748, N749, N750, N751, N752, N753, N754, N755, N756, N757, N758, N759, N760, N761, N762, N763, N764, N765, N766, N767, N768, N769, N770, N771, N772, N773, N774, N775, N776, N777, N778, N779, N780, N781, N782, N783, N784, N785, N786, N787, N788, N789, N790, N791, N792, N793, N794, N795, N796, N797, N798, N799, N800, N801, N802, N803, N804, N805, N806, N807, N808, N809, N810, N811, N812, N8

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Technical drawing of a reinforced concrete slab (CORTE C-175) showing a cross-section and a plan view.

**Cross-section details:**

- Top reinforcement: 27 N2 C/15
- Concrete layers: 3ª CONCRETAGEM (40 N3 C/10), 2ª CONCRETAGEM (40 N3 C/10), 1ª CONCRETAGEM (40 N3 C/10)
- Reinforcement bars: N11, N12
- Dimensions: 20 N18 C/15 (vertical), 95 (MIN.) (horizontal)
- Label: VER. DET. "B"

**Plan view details:**

- Reinforcement bars: 1 N6, 5 N6 C/15, 5 N6 C/15, 1 N6
- Dimensions: 10 N4 C/7 (2ªCAM.), 10 N5 C/7 (1ªCAM.), 10 N4 C/7 (2ªCAM.), 10 N5 C/7 (1ªCAM.), 10 N4 C/7 (2ªCAM.), 10 N5 C/7 (1ªCAM.)
- Dimensions: 408, 378, 408, 408
- Reinforcement details: N10-40 Ø12.5 C/15 C=468, N11-4x60 Ø8.0 C/10 C=428, N12-3x8 Ø25.0 C/10 C=490, N13-27 Ø12.5 C/15 C=468
- Radius: R=15

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RESUMO DO AÇO CA-50			
Ø	COMPRIMENTOS (m)	PESOS (kg)	
		p/m	TOTAL
8,0	3181,12	0,40	1272
12,5	2502,06	1,00	2502
16,0	112,32	1,60	180
25,0	1282,48	4,00	5130
TOTAL			9084

1. CONCRETO  $f_{ck} = 30 \text{ MPa}$
- 1.1 RELAÇÃO ÁGUA/CIMENTO  $\leq 0,50 \text{ t/kg}$
2. AÇO CA-50

**NOTAS:**

1. COBRIMENTO MÍNIMO: 5cm, EXCETO ONDE INDICADO
2. MEDIDAS EM CENTÍMETRO.

[illegible][illegible]

**DETALHE "A"**  
 ESC. 1:10

BLOCO

N5

N4

N12 C/10

4 N13 C/15

N1

N19 C/15

12.4

9.9

7.5


5


11.3

6.3

5

5

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	RESPONSÁVEL TÉCNICO:  <b>CATÃO FRANCISCO RIBEIRO</b>	Nº PROJETO:
	PROJETISTA: <b>JOSÉ ARMANDO GUARITA</b>	3716
ASSINATURA:	DATA: 24/05/2019	
CREA/CAU: 0600512333		

<div> <div> Universidade Federal do ABC  Campus Santo André </div> <div>   UFABC </div> </div>		
<div> <div> ETAPA - ÁREA TÉCNICA  <b>PROJETO EXECUTIVO - ESTRUTURA DA PASSARELA</b>  CONTÉUDO:  <b>ARMADURA DO BLOCO DO APOIO 5</b>  LOCALIZAÇÃO - IDENTIFICAÇÃO:  <b>PASSARELA DE INTERLIGAÇÃO - CAMPUS SANTO ANDRÉ</b> </div> <div> <div> ARQUIVO ELETRÔNICO  UFABC-CSA-ENS-PE-ES-G-ARM-203-R01.dwg </div> <div> REVISÃO DA FOLHA:  R01 </div> <div> ESCALA:  INDICADAS </div> </div> </div>		
<div> <div> PE-ES  FOLHA:  <b>G</b>  <b>203</b> </div> <div> DATA:  24/05/2019 </div> </div>		