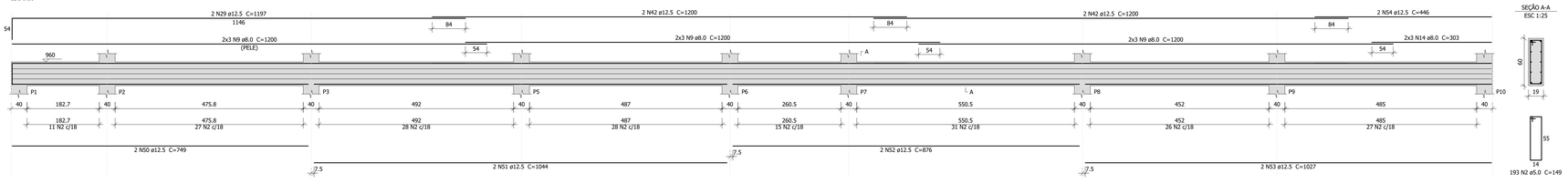
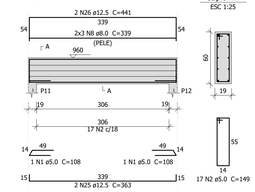
VCO1 (19 x 60)
ESC 1:50



VCO2 (19 x 60)
ESC 1:50



Relação do aço

VCO1	VCO2	VCO3
VCO4	VCO5	VCO6
VCO7	VCO8	VCO9
VCO10	VCO11	VCO12
VCO13		

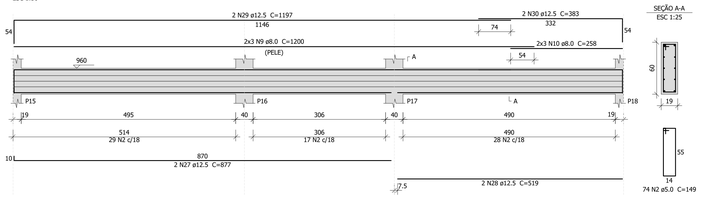
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	108	216
	2	5.0	1041	149	155109
	3	5.0	70	59	4130
	4	5.0	309	83	25647
	5	5.0	8	29	232
	6	5.0	12	109	1308
CA50	7	6.3	57	84	4788
	8	8.0	6	339	2034
	9	8.0	72	1200	86400
	10	8.0	6	258	1548
	11	8.0	6	453	2718
	12	8.0	6	701	4206
	13	8.0	18	783	14094
	14	8.0	6	303	1818
	15	8.0	6	696	4176
	16	8.0	8	116	928
	17	10.0	1	291	291
	18	10.0	3	295	885
	19	10.0	6	313	1878
	20	10.0	6	351	2106
	21	10.0	6	128	768
	22	10.0	1	131	131
	23	10.0	6	385	2310
	24	10.0	6	384	2304
	25	12.5	2	363	726
	26	12.5	2	441	882
	27	12.5	2	877	1754
	28	12.5	2	519	1038
	29	12.5	17	1197	20349
	30	12.5	2	383	766
	31	12.5	2	296	592
	32	12.5	3	303	909
	33	12.5	2	1071	2142
	34	12.5	2	542	1084
	35	12.5	2	224	448
	36	12.5	2	573	1146
	37	12.5	8	1065	8520
	38	12.5	2	813	1626
	39	12.5	1	381	381
	40	12.5	2	1100	2200
	41	12.5	1	340	340
	42	12.5	12	1200	14400
	43	12.5	1	602	602
	44	12.5	3	866	2598
	45	12.5	1	351	351
	46	12.5	4	868	3472
	47	12.5	2	240	480
	48	12.5	1	230	230
	49	12.5	2	913	1826
	50	12.5	2	749	1498
	51	12.5	2	1044	2088
	52	12.5	2	876	1752
	53	12.5	2	1027	2054
	54	12.5	2	446	892
	55	12.5	2	518	1036
	56	12.5	2	572	1144
	57	12.5	2	802	1604
	58	12.5	2	1098	2196
	59	12.5	2	285	570
	60	12.5	2	1042	2084
	61	12.5	2	638	1276
	62	12.5	2	861	1722
	63	12.5	1	356	356
	64	12.5	1	225	225
	65	12.5	2	915	1830
	66	12.5	2	1082	2164
	67	12.5	2	865	1730
	68	12.5	1	180	180
	69	12.5	2	898	1796
	70	16.0	6	351	2106
	71	16.0	18	129	2322
	72	16.0	3	165	495
	73	16.0	6	426	2556

Resumo do aço

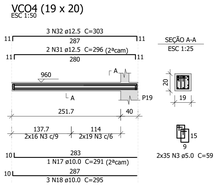
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT (Barras)	PESO (kg)
CA50	6.3	47.9	4	11.7
	8.0	1179.3	99	465.3
	10.0	106.8	9	65.8
	12.5	970.6	81	935
	16.0	74.8	7	118
CA60	5.0	1866.5	-	287.7
PESO TOTAL (kg)				
CA50	1595.9			
CA60	287.7			

Volume de concreto (C-30) = 20.76 m³
Área de forma = 205.22 m²

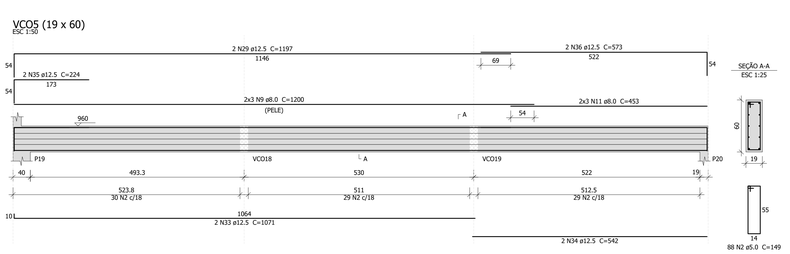
VCO3 (19 x 60)
ESC 1:50



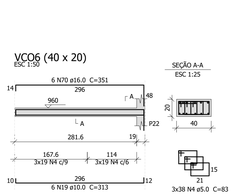
VCO4 (19 x 20)
ESC 1:50



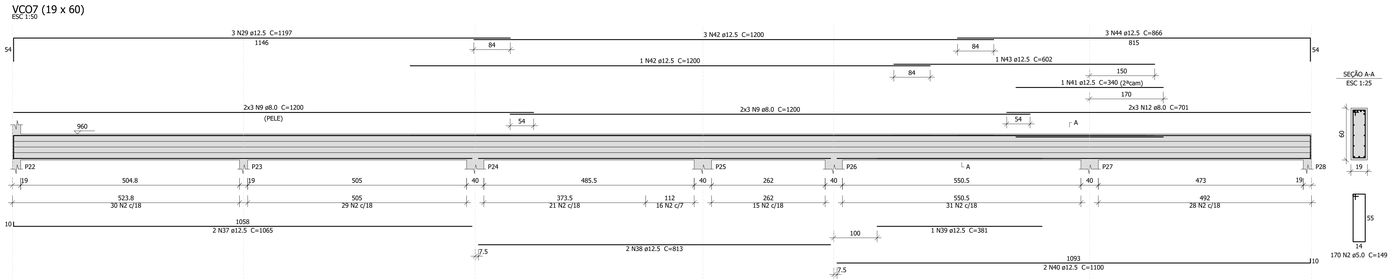
VCO5 (19 x 60)
ESC 1:50



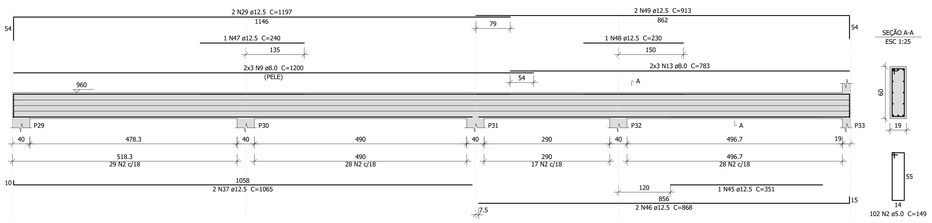
VCO6 (40 x 20)
ESC 1:50



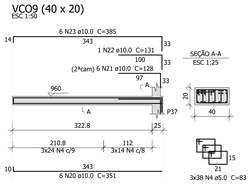
VCO7 (19 x 60)
ESC 1:50



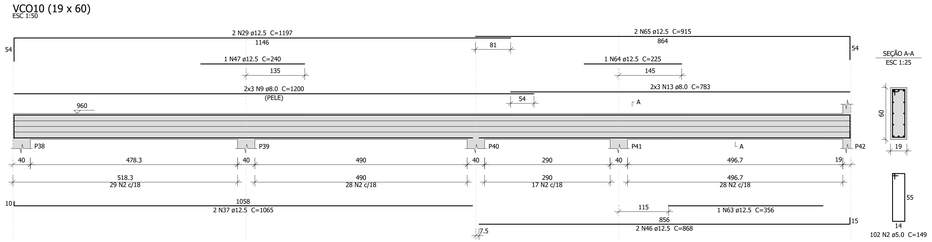
VCO8 (19 x 60)
ESC 1:50



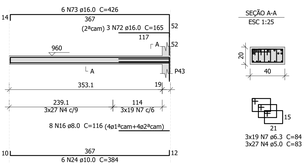
VCO9 (40 x 20)
ESC 1:50



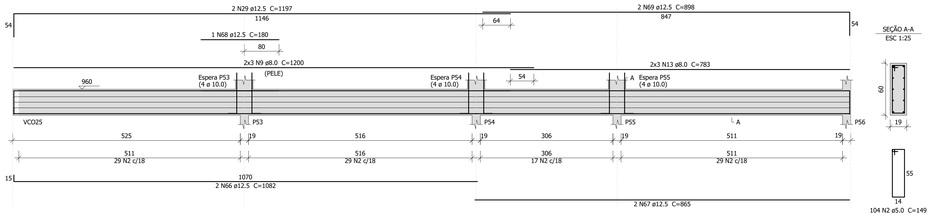
VCO10 (19 x 60)
ESC 1:50



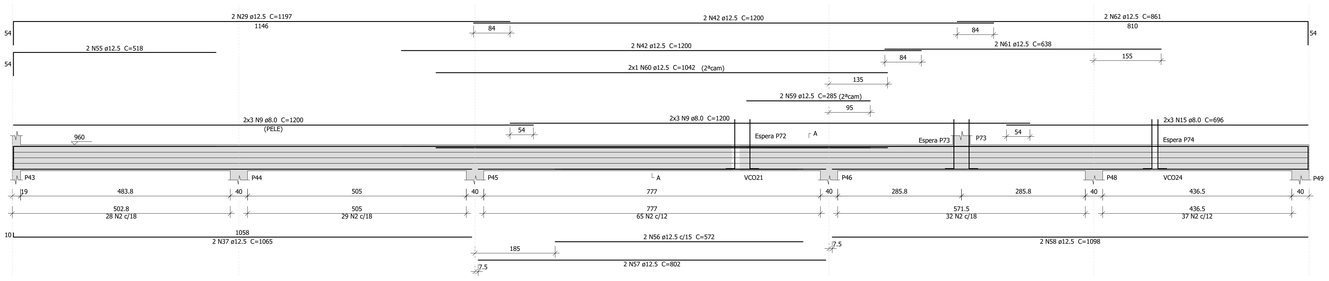
VCO11 (40 x 20)
ESC 1:50



VCO13 (19 x 60)
ESC 1:50



VCO12 (19 x 60)
ESC 1:50



R01	DIVISÃO DAS FASES		18/03/2026
R00	EMISSÃO INICIAL		12/02/2026
Nº	DESCRIÇÃO		DATA

OBS.: TODAS AS MEDIDAS DEVEM SER CONFERIDAS EM OBRA. CASO SEJA NECESSÁRIO ALGUMA ALTERAÇÃO, ENTRAR EM CONTATO COM O PROJETISTA RESPONSÁVEL.

ASSINATURAS

CLIENTE:
PREFEITURA MUNICIPAL DE GOVERNADOR CELSO RAMOS
82.882.375/0001-89

RESPONSÁVEL TÉCNICO:
MARCO AURELIO SACENTI:04158791910 Assinado de forma digital por MARCO AURELIO SACENTI:04158791910 Dados: 2026.03.19 15:29:29 -03'00'
MARCO AURELIO SACENTI
CREA/SC 082757-7

ESTRUTURAL

ENGEPLANTI
PROJETOS E SUPERVISÃO
Engeplanti Consultoria LTDA./ CREA nº 163388-0 / CNPJ 23.002.667/0001-29
Rua Cristóvão Nunes Pires, 110 - CEP: 88010-120 - Florianópolis / Fone: (48) 3364-2209 / e-mail: projetos@engeplanti.com.br

OBRA:
CEI DULCE GODINHO NAZÁRIO
INSCRIÇÃO IMOBILIÁRIA:
ENDEREÇO:
RUA SÃO PEDRO, CANTO DOS GANCHOS, GOVERNADOR CELSO RAMOS/SC
CONTEÚDO:
DETALHAMENTO VIGAS COBERTURA 1-3
EDIFICAÇÃO PRINCIPAL (100)
ESCALA:
INDICADA
ETAPA:
PROJETO EXECUTIVO
PRANCHA:
EST 28/35
ARQUIVO:
029-23-28-CEI DULCE-EST-PE-128-DETALHAMENTO VIGAS COBERTURA 1-3 -R01.dwg