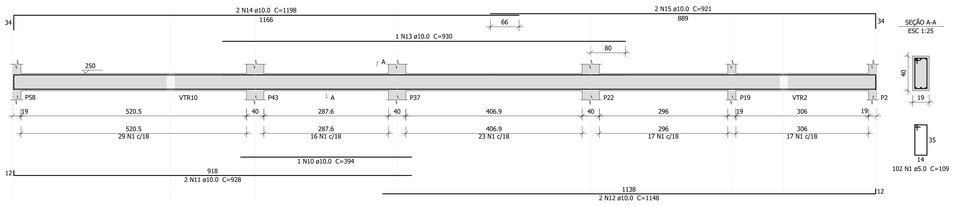
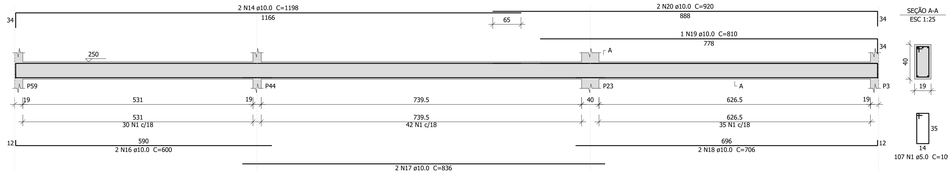
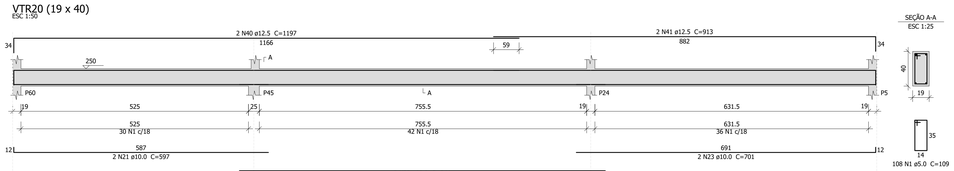
VTR18 (19 x 40)
ESC 1:50



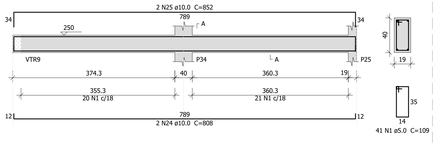
VTR19 (19 x 40)
ESC 1:50



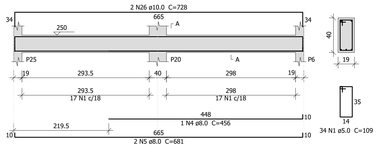
VTR20 (19 x 40)
ESC 1:50



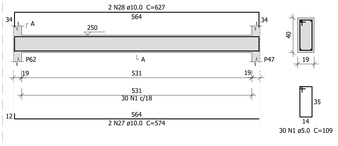
VTR21 (19 x 40)
ESC 1:50



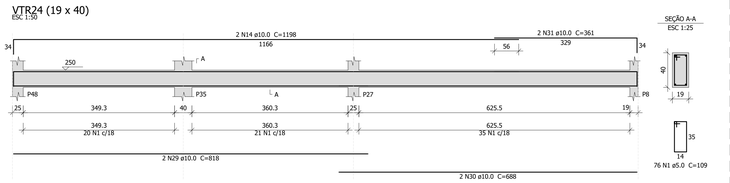
VTR22 (19 x 40)
ESC 1:50



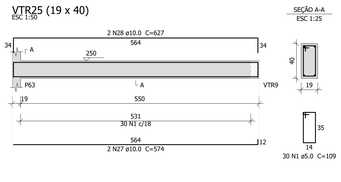
VTR23 (19 x 40)
ESC 1:50



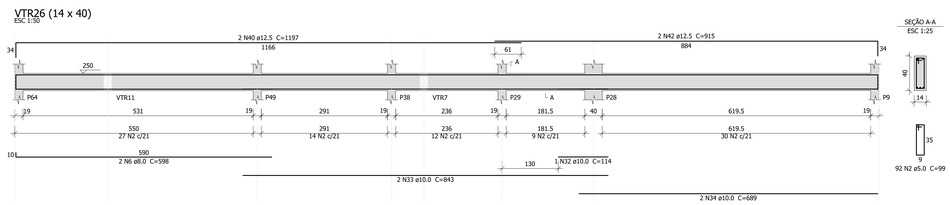
VTR24 (19 x 40)
ESC 1:50



VTR25 (19 x 40)
ESC 1:50



VTR26 (14 x 40)
ESC 1:50



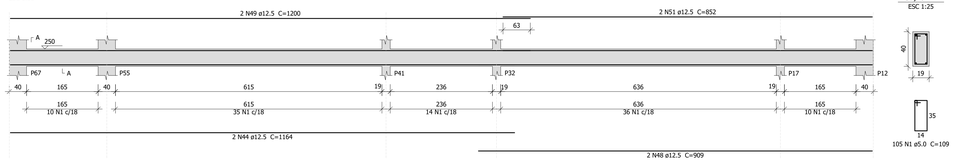
VTR27 (19 x 40)
ESC 1:50



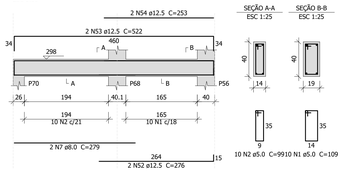
VTR28 (19 x 40)
ESC 1:50



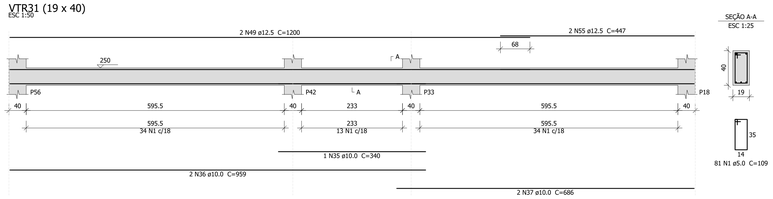
VTR29 (19 x 40)
ESC 1:50



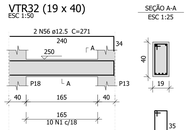
VTR30 (var)
ESC 1:50



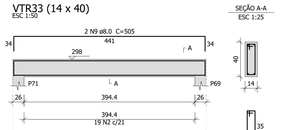
VTR31 (19 x 40)
ESC 1:50



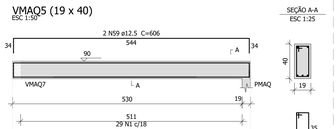
VTR32 (19 x 40)
ESC 1:50



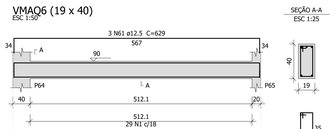
VTR33 (14 x 40)
ESC 1:50



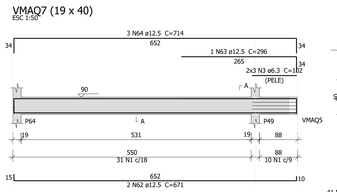
VMAQ5 (19 x 40)
ESC 1:50



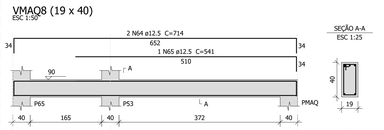
VMAQ6 (19 x 40)
ESC 1:50



VMAQ7 (19 x 40)
ESC 1:50



VMAQ8 (19 x 40)
ESC 1:50



Relação do aço

VMAQ5	VMAQ6	VMAQ7
VMAQ8	VTR18	VTR19
VTR20	VTR21	VTR22
VTR23	VTR24	VTR25
VTR26	VTR27	VTR28
VTR29	VTR30	VTR31
VTR32	VTR33	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1074	109	117066
	2	5.0	121	99	11979
CA50	3	6.3	6	102	612
	4	8.0	1	456	456
	5	8.0	2	681	1362
	6	8.0	2	598	1196
	7	8.0	2	279	558
	8	8.0	2	441	882
	9	8.0	2	505	1010
	10	10.0	1	394	394
	11	10.0	2	928	1856
	12	10.0	2	1148	2296
	13	10.0	1	930	930
	14	10.0	6	1198	7188
	15	10.0	2	921	1842
	16	10.0	2	600	1200
	17	10.0	2	836	1672
	18	10.0	2	706	1412
	19	10.0	1	810	810
	20	10.0	2	920	1840
	21	10.0	2	597	1194
	22	10.0	2	844	1688
	23	10.0	2	701	1402
	24	10.0	2	808	1616
	25	10.0	2	852	1704
	26	10.0	2	728	1456
	27	10.0	4	574	2296
	28	10.0	4	627	2508
	29	10.0	2	818	1636
	30	10.0	2	688	1376
	31	10.0	2	361	722
	32	10.0	1	114	114
	33	10.0	2	843	1686
	34	10.0	2	689	1378
	35	10.0	1	340	340
	36	10.0	2	959	1918
	37	10.0	2	686	1372
	38	10.0	4	240	960
	39	10.0	2	652	1304
	40	12.5	6	1197	7182
	41	12.5	2	913	1826
	42	12.5	2	915	1830
	43	12.5	1	264	264
	44	12.5	6	1164	6984
	45	12.5	2	921	1842
	46	12.5	1	329	329
	47	12.5	2	938	1876
	48	12.5	4	909	3636
	49	12.5	6	1200	7200
	50	12.5	2	850	1700
	51	12.5	2	852	1704
	52	12.5	2	276	552
	53	12.5	2	522	1044
	54	12.5	2	253	506
	55	12.5	2	447	894
	56	12.5	2	271	542
	57	12.5	1	330	330
	58	12.5	2	556	1112
	59	12.5	2	606	1212
	60	12.5	2	579	1158
	61	12.5	3	629	1887
	62	12.5	2	671	1342
	63	12.5	2	296	592
	64	12.5	5	714	3570
	65	12.5	1	541	541

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT (Barras)	PESO (kg)
CA50	6.3	6.2	1	1.5
	8.0	54.7	5	21.6
	10.0	481.1	41	296.6
	12.5	513.6	43	494.8
CA60	5.0	1290.5	-	198.9
PESO TOTAL (kg)				
CA50	814.4			
CA60	198.9			

Volume de concreto (C-30) = 15.6 m³
Área de forma = 204.26 m²

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
82.892.373/0001-88

RESPONSÁVEL TÉCNICO:
MARCO AURELIO SACENTI:04158791910 Assinado de forma digital por MARCO AURELIO SACENTI:04158791910 Dados: 2026.03.19 15:24:47 -03'00'
MARCO AURÉLIO SACENTI
CREA/SC 062370-7

ESTRUTURAL

ENGEPLANTI
PROJETOS E SUPERVISÃO
Engeplanti Consultoria LTDA./ CREA nº 163380-0 / 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 TRAVAMENTO 2-2
EDIFICAÇÃO PRINCIPAL (100)

ESCALA: INDICADA
ETAPA: PROJETO EXECUTIVO

PRANCHA: EST 17/35

ARQUIVO:
029-23-29-CEI DULCE-EST-PE-117-DETALHAMENTO VIGAS TRAVAMENTO 2-2-R01.dwg