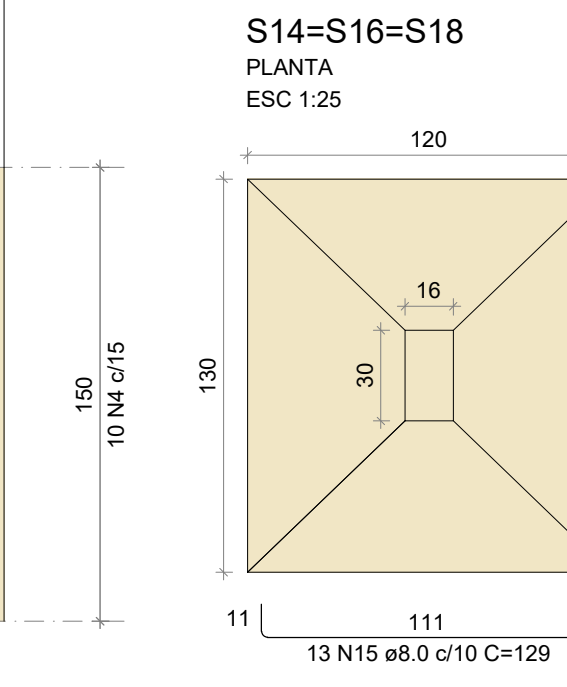
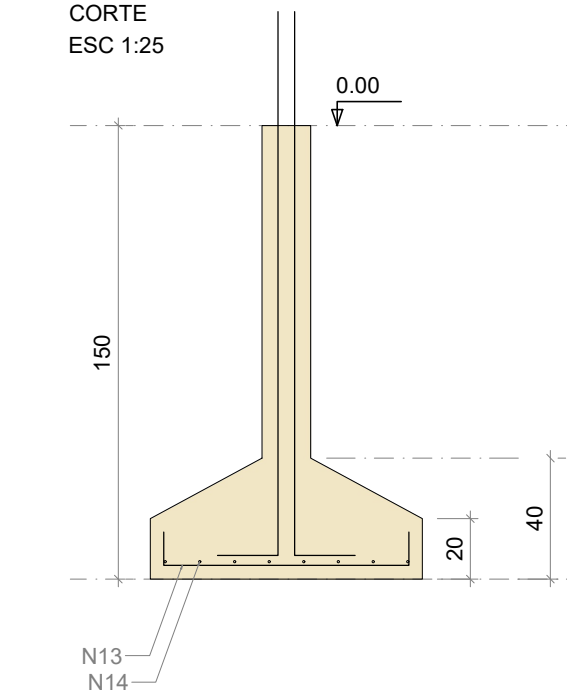
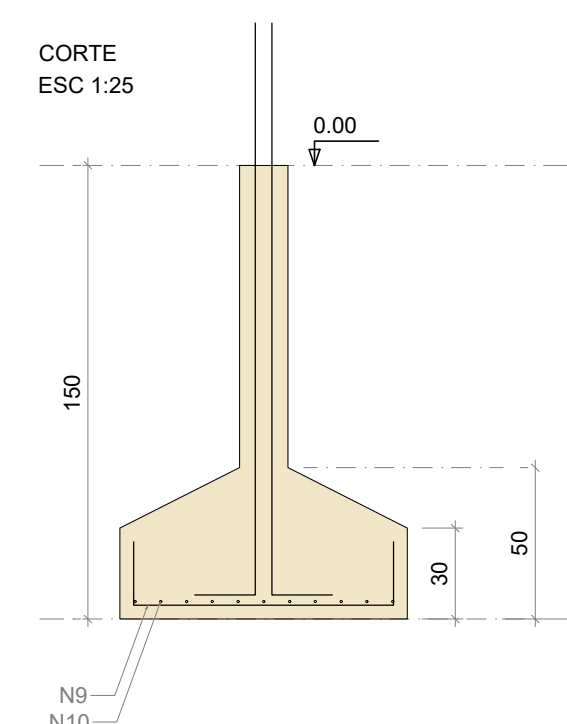
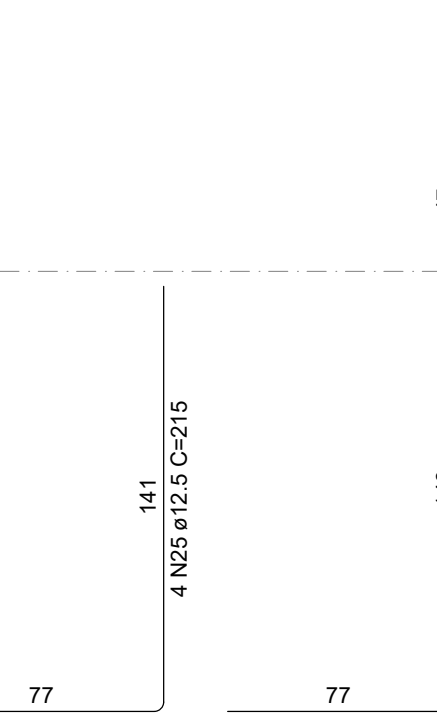
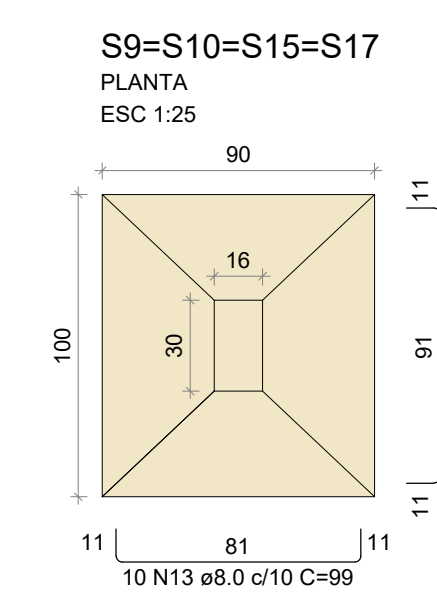
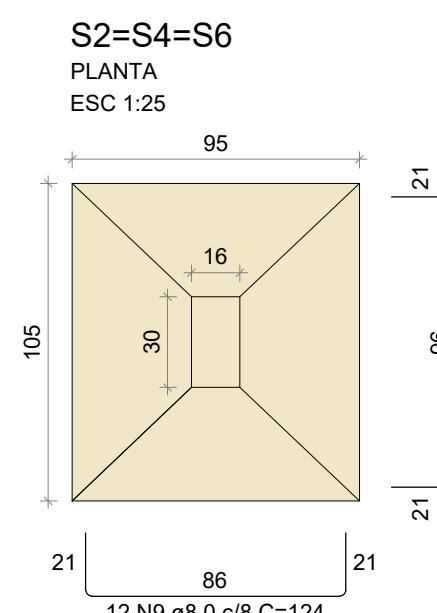
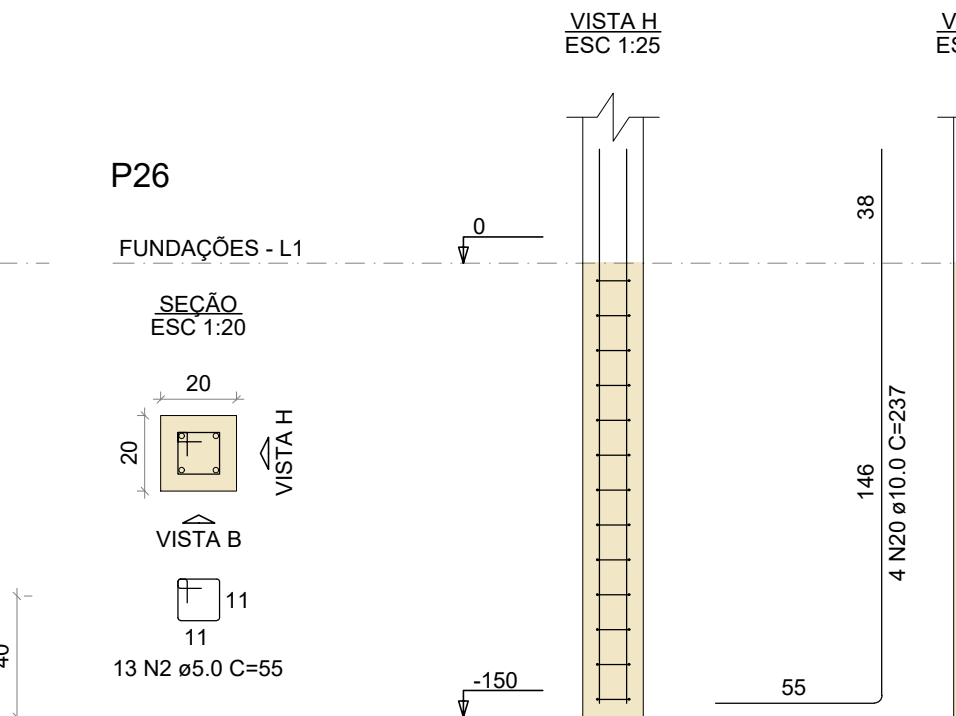
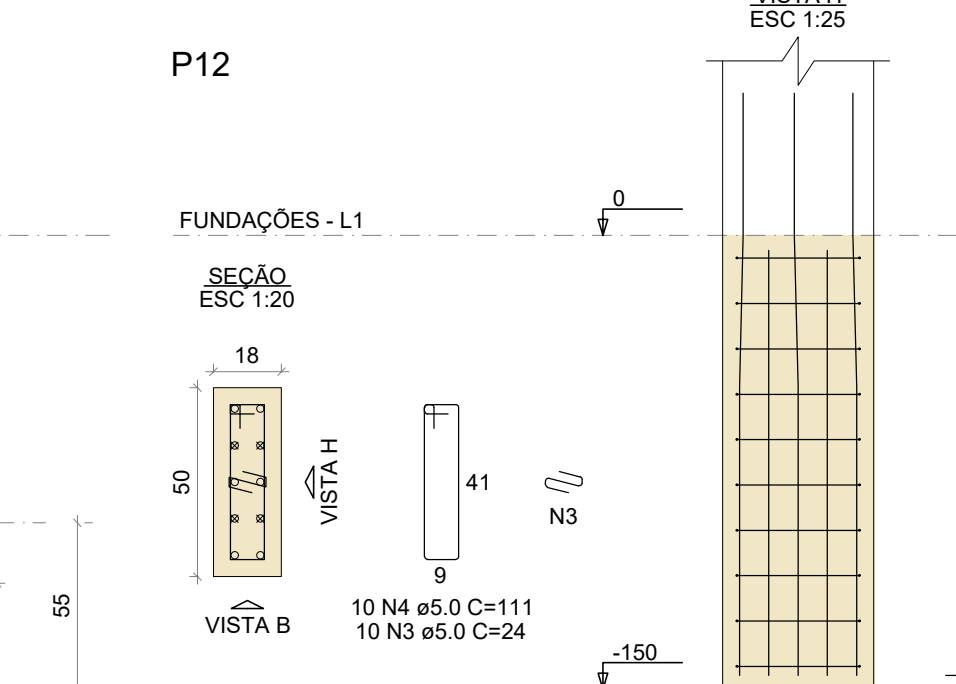
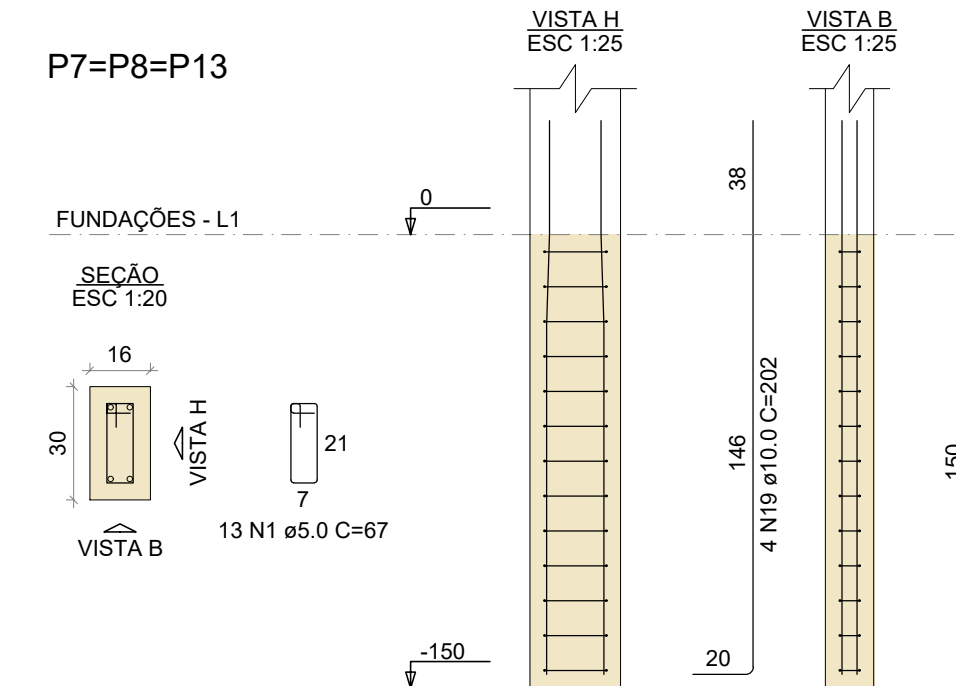
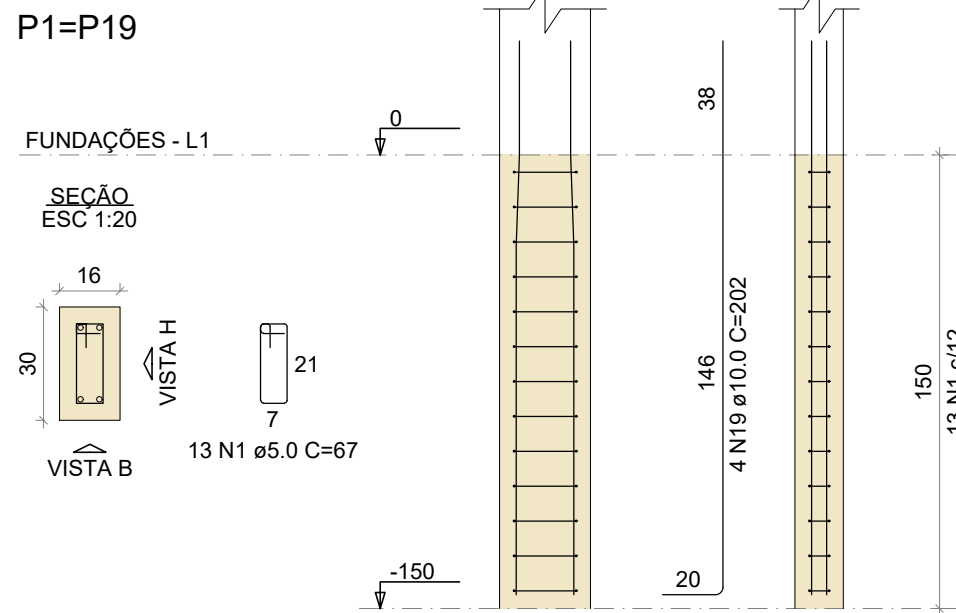
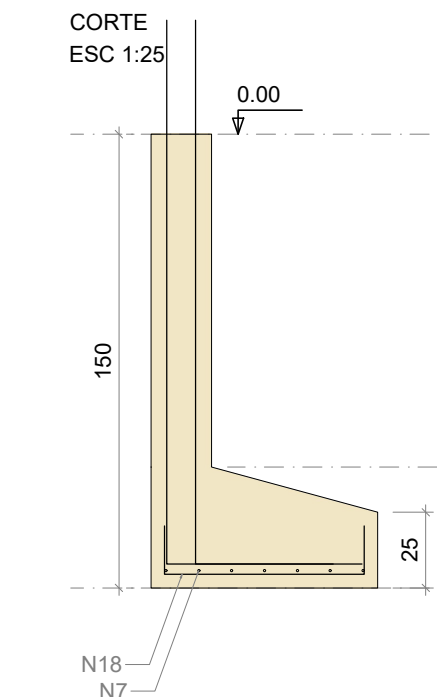
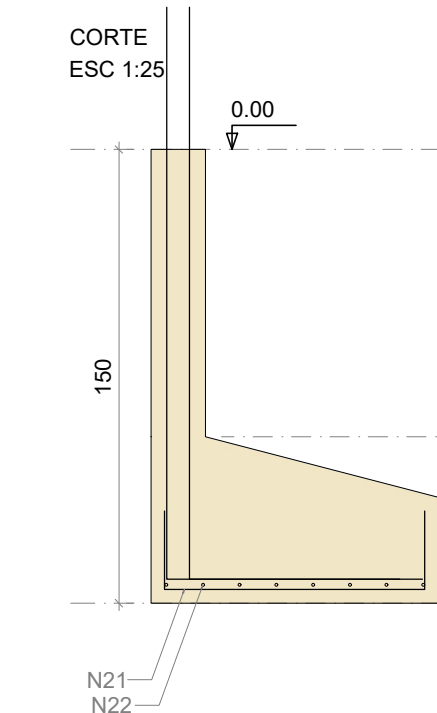
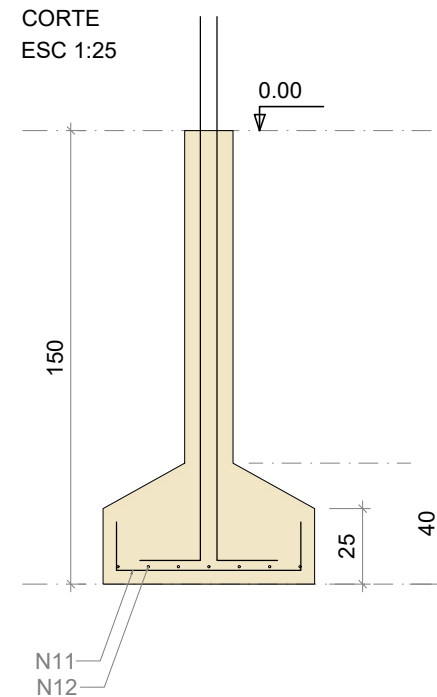
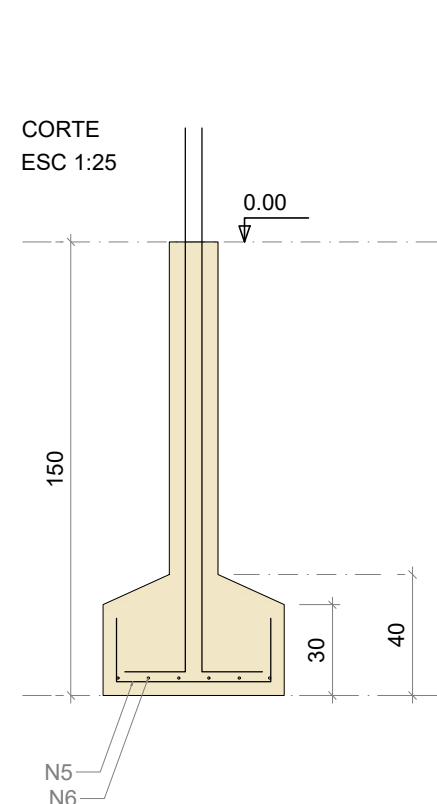
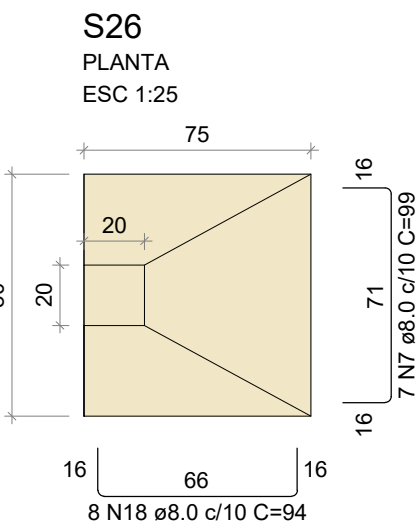
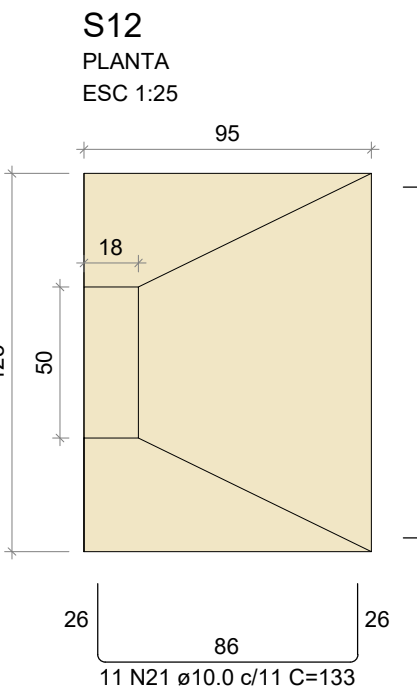
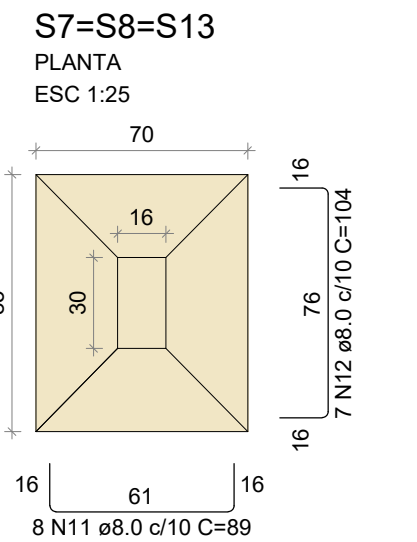
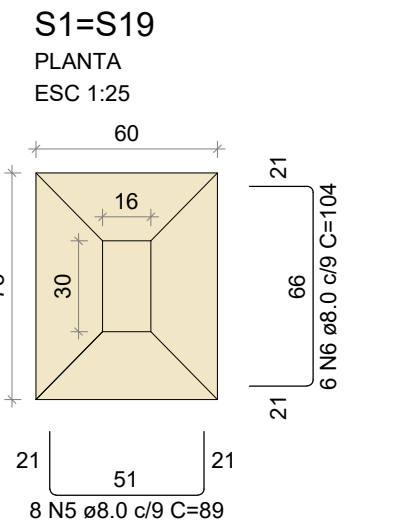
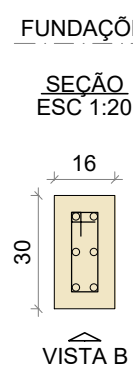
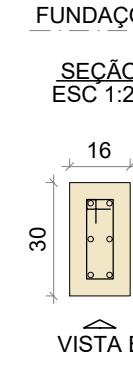




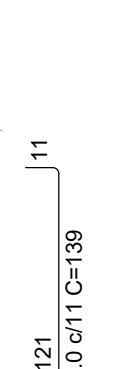
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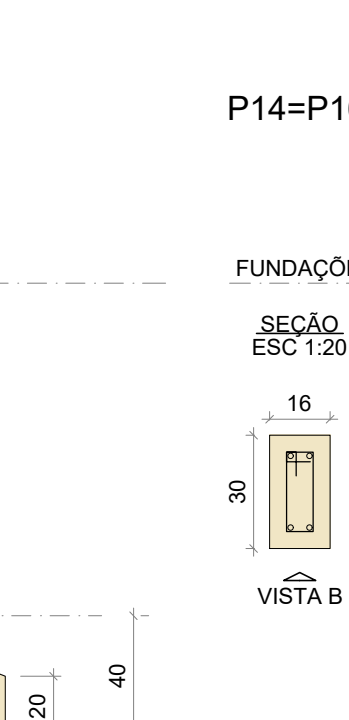
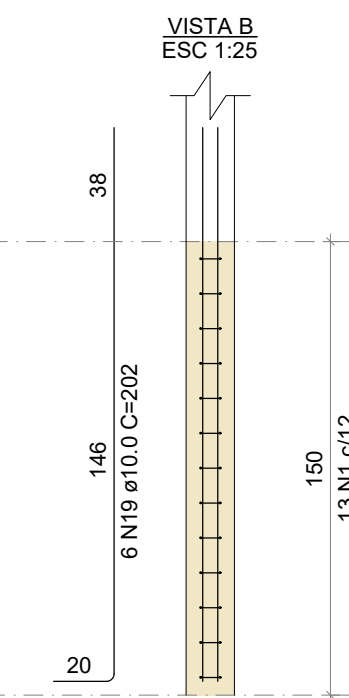
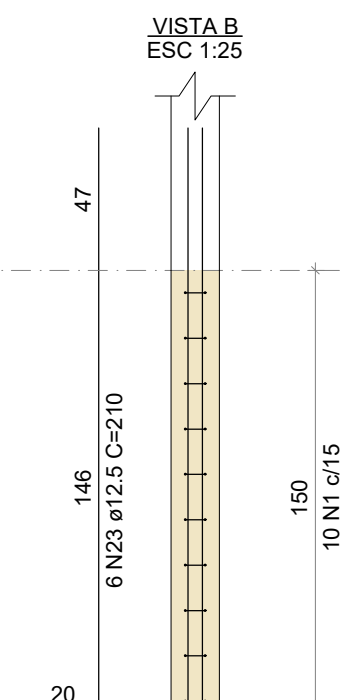
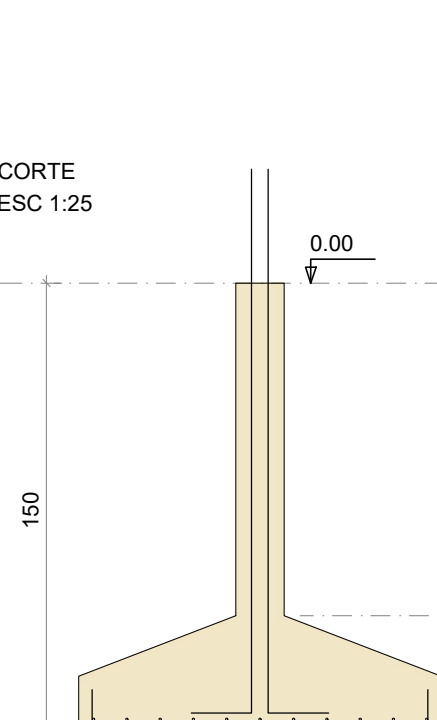
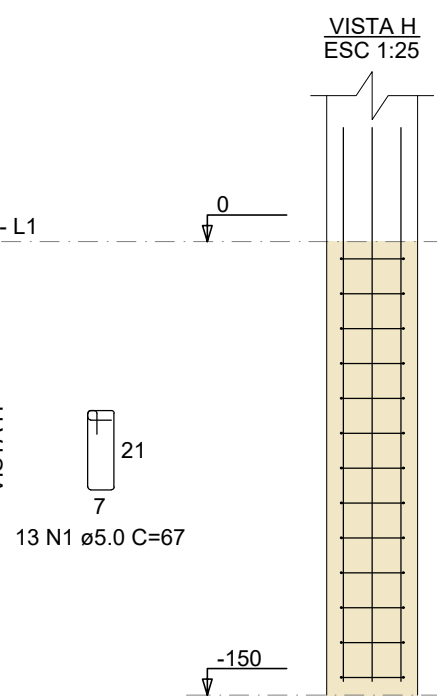
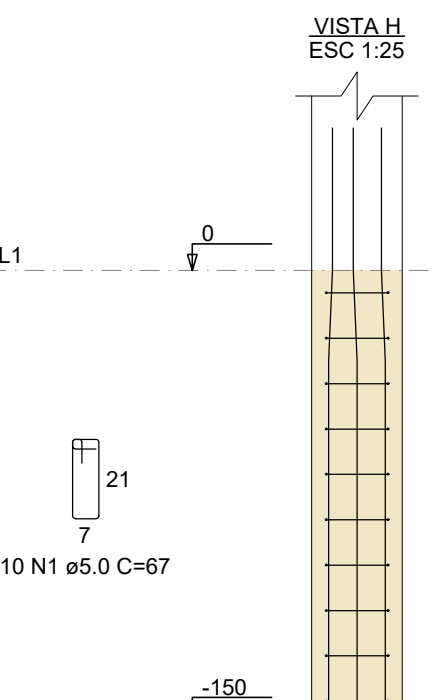
P9=P10



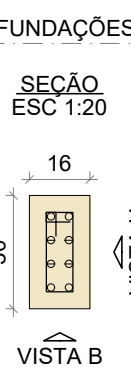
P14=P16=P18



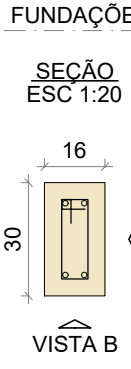
S22=S24



P6



P15=P17



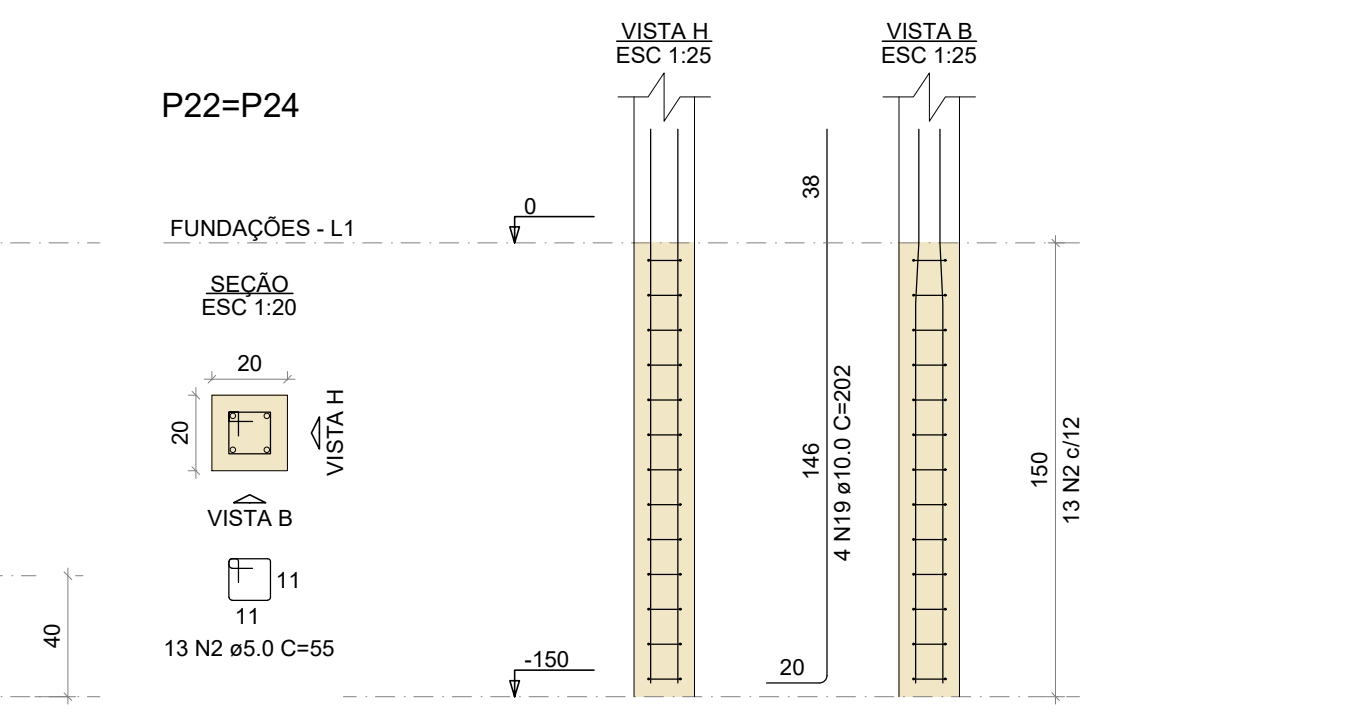
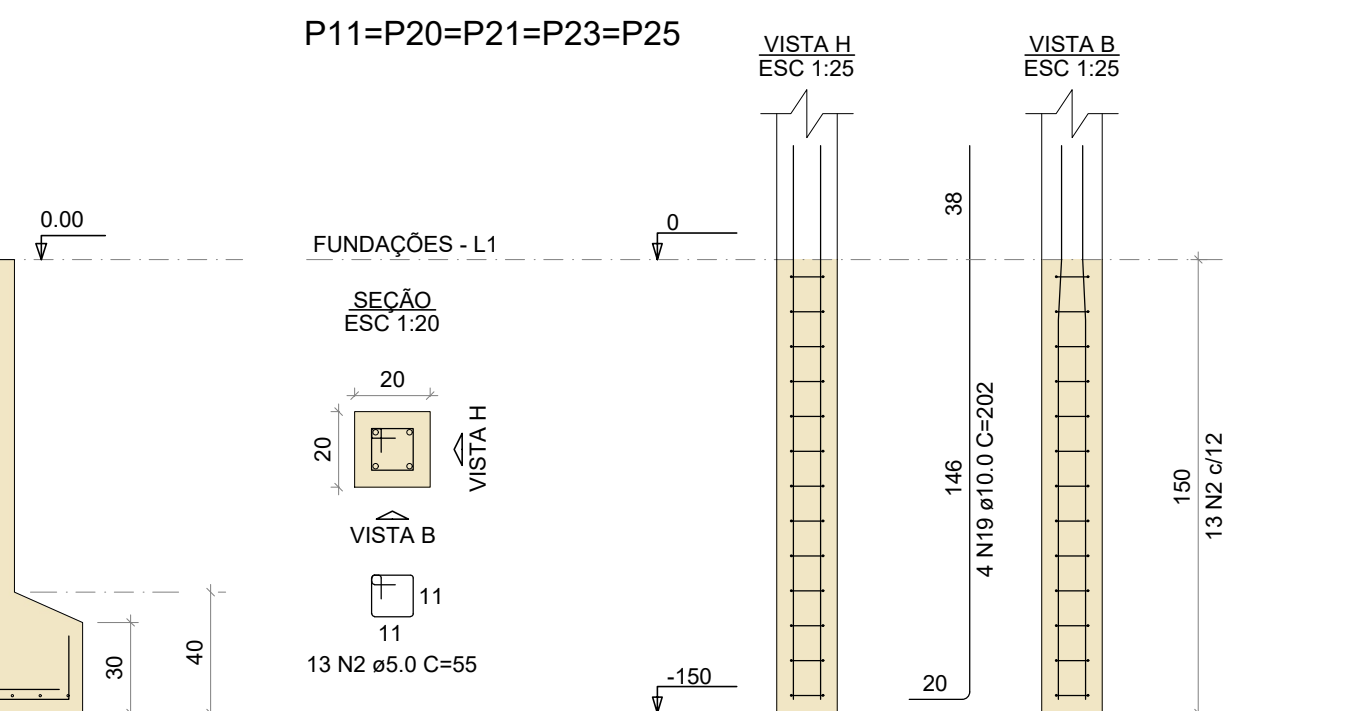
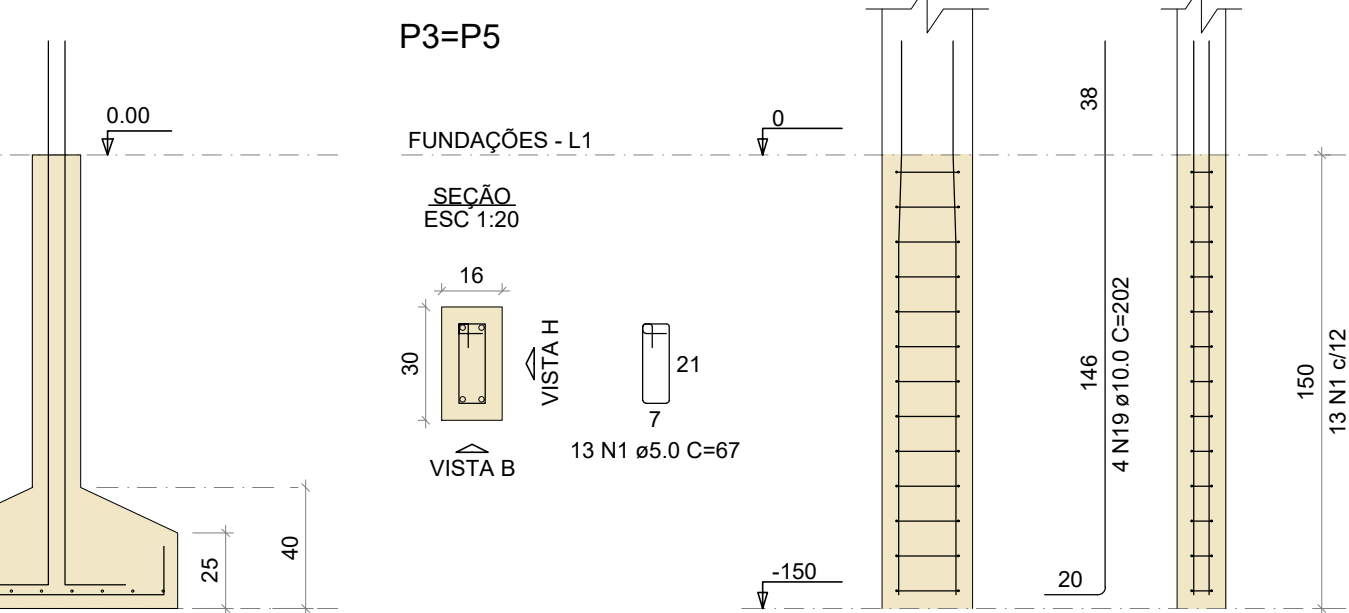
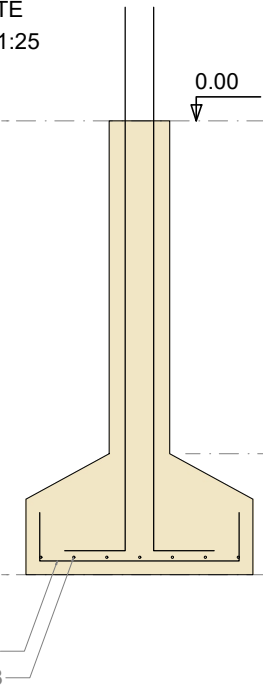
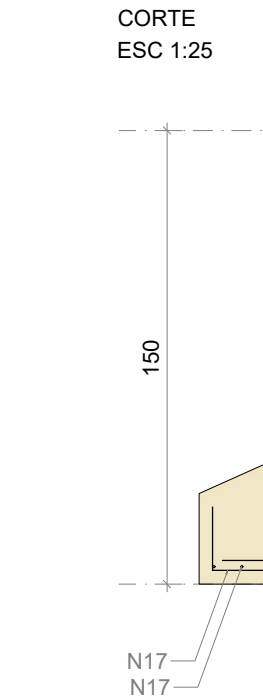
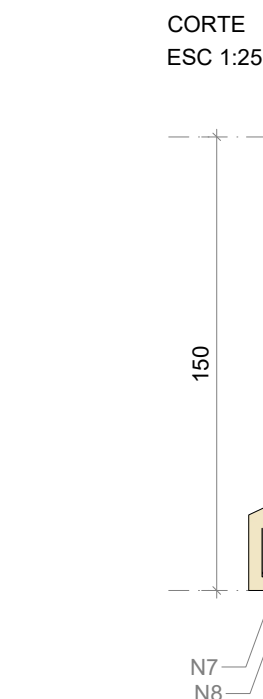
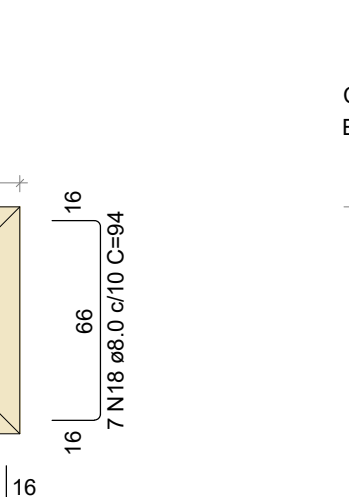
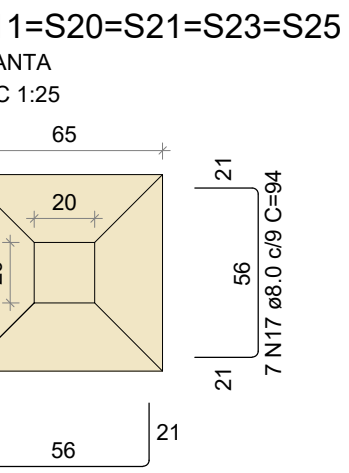
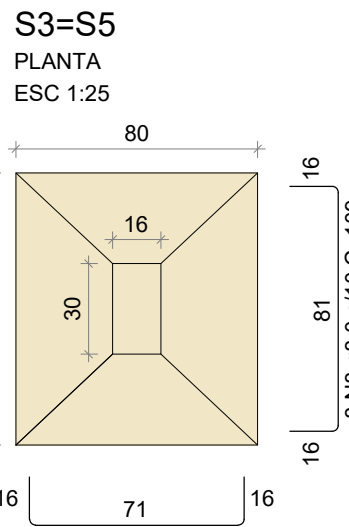
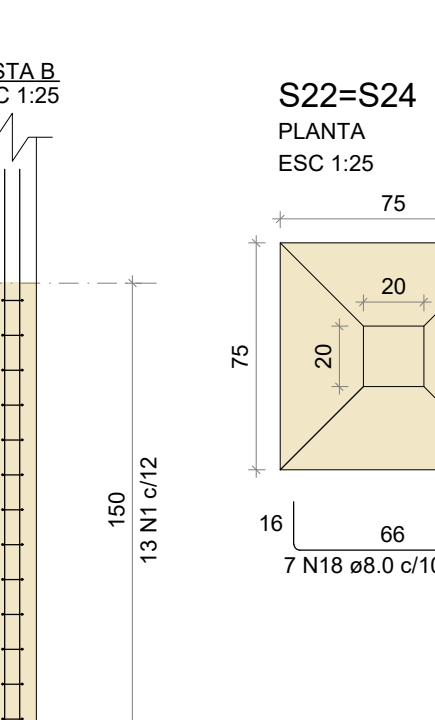
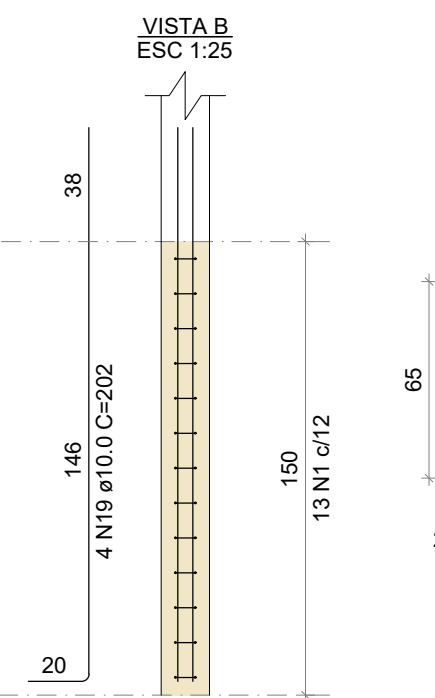
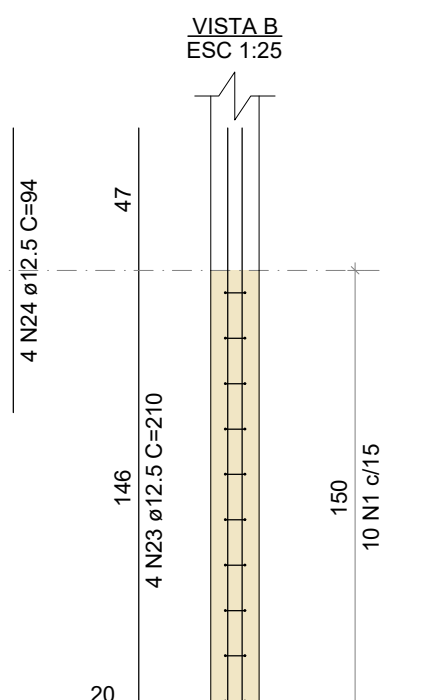
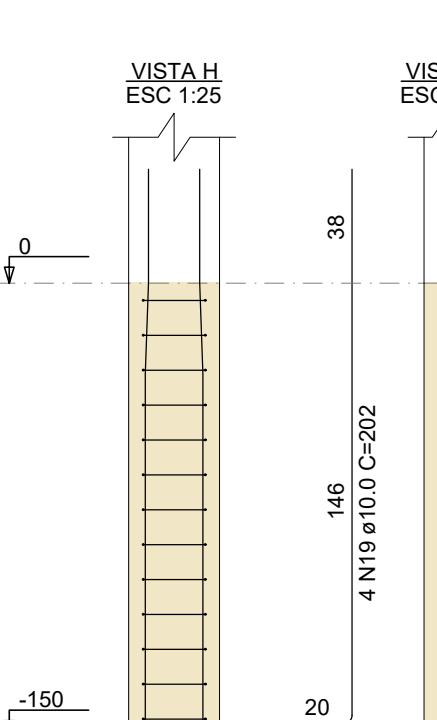
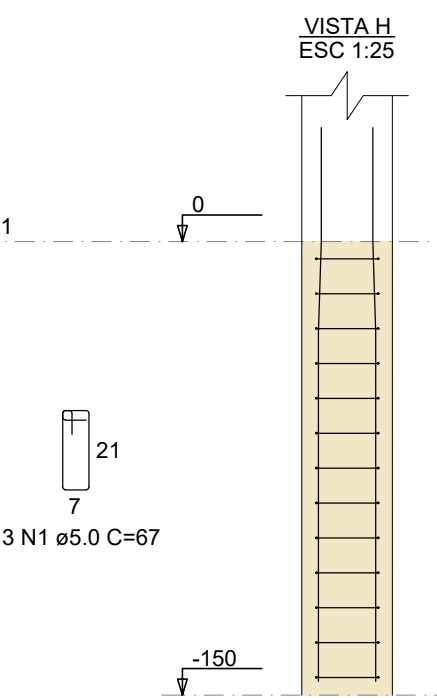
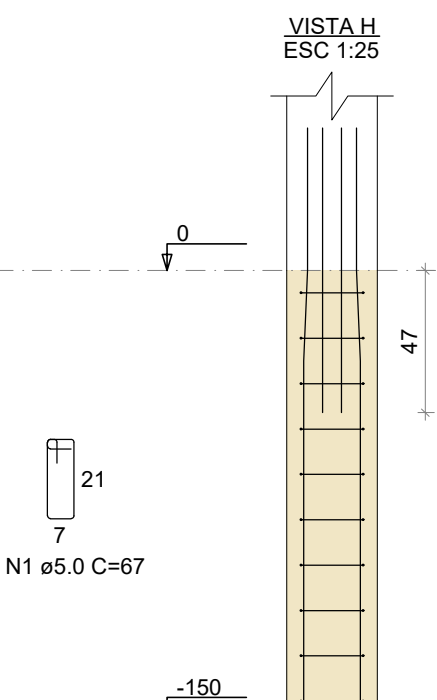
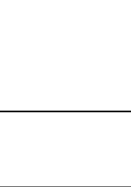
S11=S20=S21=S23=S25



P22=P24



S3=S5



RELAÇÃO DO AÇO

2xP1	2xP2	2xP3
P6	3xP7	2xP9
5xP11	2xP22	3xP14
2xP15	2xS3	P26
2xS1	4xS10	3xS6
3xS8	S12	S26
3xS14		
S26		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	212	67	14204
	2	5.0	104	55	5720
	3	5.0	10	24	240
CA50	4	5.0	10	111	1110
	5	8.0	16	89	1424
	6	8.0	12	104	1248
	7	8.0	25	99	2475
	8	8.0	16	109	1744
	9	8.0	36	124	4464
	10	8.0	33	134	4422
	11	8.0	24	89	2136
	12	8.0	21	104	2184
	13	8.0	40	99	3960
	14	8.0	32	109	3488
	15	8.0	39	129	5031
	16	8.0	33	139	4587
	17	8.0	70	94	6580
	18	8.0	36	94	3384
	19	10.0	88	202	17776
	20	10.0	4	237	948
	21	10.0	11	133	1463
	22	10.0	8	163	1304
	23	12.5	16	210	3360
	24	12.5	4	94	376
	25	12.5	4	215	860
	26	12.5	6	267	1602

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	471.3	204.6
CA50	10.0	214.9	145.8
CA60	12.5	62	65.7
CA60	5.0	212.7	36.1

PESO TOTAL (kg)

CA50	416
CA60	36.1

Volume de concreto (C-25) = 8.47 m³
Área de forma = 58.47 m²

OBS:
Solo com capacidade de suporte > 150.00 kN/m²
Solo compactado sobre a sapata
peso específico > 16.00 kN/m³

MUNICÍPIO DE GUAPORÉ

PROJETO: ESCOLA MUNICIPAL DE ENSINO FUNDAMENTAL ZAIDA ZANON

AMPLIAÇÃO BLOCO PEDAGÓGICO E ADMINISTRATIVO

LOCAL: RUA IRMÃO EDUARDO, Nº 288, BAIRRO SÃO JOSÉ - GUAPORÉ/RS

PROPRIETÁRIO: MUNICÍPIO DE GUAPORÉ - RS

RESP. TÉCNICO: Engº Civil: GABRIEL FRANCISCO VIAN - Crea/RS 242589

ASSUNTO: SAPATAS - BLOCO PEDAGÓGICO

DATA: JUNHO 2021

ESCALA: INDICADA

ÁREA TOTAL: 189,17 m²

PRANCHA: Est-02