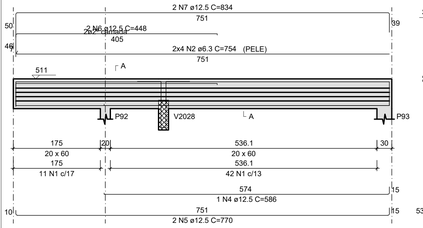
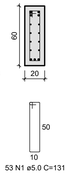
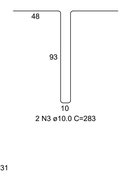
V2015
ESC 1:50



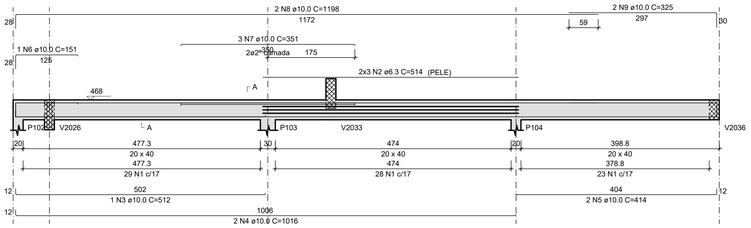
SEÇÃO A-A
ESC 1:25



SUSPENSÃO V2028
ESC 1:25



V2017
ESC 1:50



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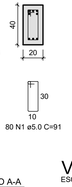
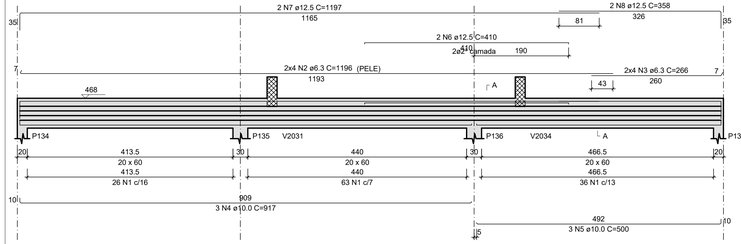


SUSPENSÃO V2026
ESC 1:25

V2021
ESC 1:50



SEÇÃO A-A
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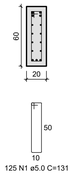
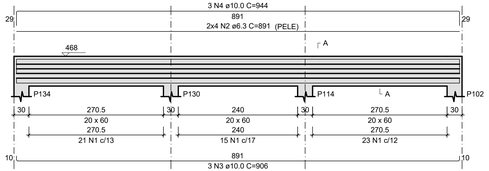
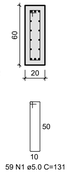


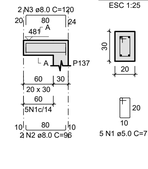
V2023
ESC 1:50



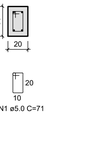
SEÇÃO A-A
ESC 1:25



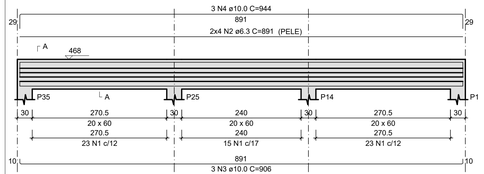
V2025=V2035=V2038
ESC 1:50



SEÇÃO A-A
ESC 1:25

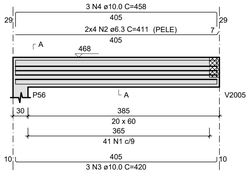


V2024
ESC 1:50



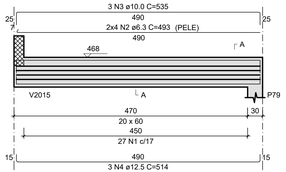
SEÇÃO A-A
ESC 1:25

V2026=V2027
ESC 1:50



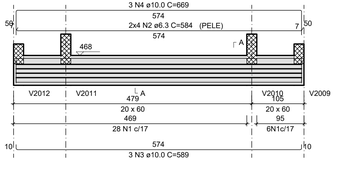
SEÇÃO A-A
ESC 1:25

V2028=V2029
ESC 1:50

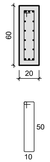


SEÇÃO A-A
ESC 1:25

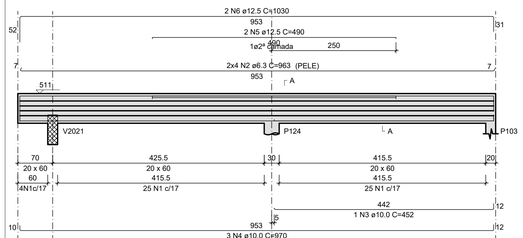
V2030
ESC 1:50



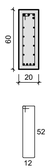
SEÇÃO A-A
ESC 1:25



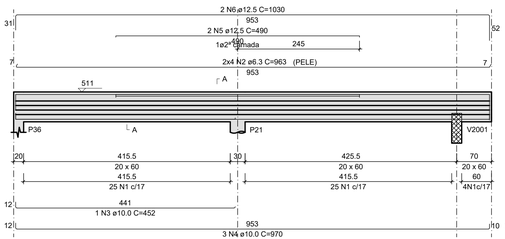
V2031
ESC 1:50



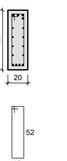
SEÇÃO A-A
ESC 1:25



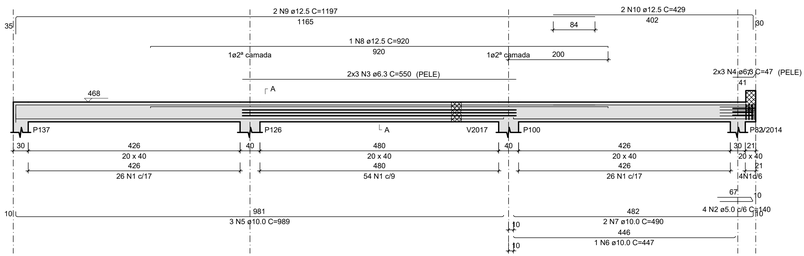
V2032
ESC 1:50



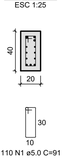
SEÇÃO A-A
ESC 1:25



V2036
ESC 1:50



SEÇÃO A-A
ESC 1:25



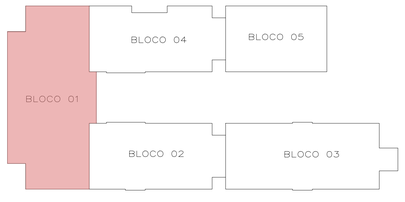
RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V2015	CA50	1	5.0	53	131	6943
	CA50	2	6.3	8	754	6032
	CA50	3	10.0	2	283	566
	CA50	4	12.5	1	586	586
	CA50	5	12.5	2	770	1540
	CA50	6	12.5	2	448	896
	CA50	7	12.5	2	834	1668
V2017	CA60	1	5.0	80	91	7280
	CA50	2	6.3	6	514	3084
	CA50	3	10.0	1	512	512
	CA50	4	10.0	2	1016	2032
	CA50	5	10.0	2	414	828
	CA50	6	10.0	1	151	151
	CA50	7	10.0	3	351	1053
	CA50	8	10.0	2	1198	2396
	CA50	9	10.0	2	325	650
	CA50	10	10.0	1	133	133
V2021	CA60	1	5.0	125	131	16375
	CA50	2	6.3	8	1196	9568
	CA50	3	6.3	8	266	2128
	CA50	4	10.0	3	917	2751
	CA50	5	10.0	3	500	1500
	CA50	6	12.5	2	410	820
	CA50	7	12.5	2	1197	2394
	CA50	8	12.5	2	358	716
V2023	CA60	1	5.0	59	131	7729
	CA50	2	6.3	8	891	7128
	CA50	3	10.0	3	906	2718
	CA50	4	10.0	3	944	2832
V2024	CA60	1	5.0	61	131	7991
	CA50	2	6.3	8	891	7128
	CA50	3	10.0	3	906	2718
	CA50	4	10.0	3	944	2832
2xV2027	CA60	1	5.0	82	131	10742
	CA50	2	6.3	16	411	6576
	CA50	3	10.0	6	420	2520
	CA50	4	10.0	6	458	2748
2xV2028	CA60	1	5.0	54	131	7074
	CA50	2	6.3	16	493	7888
	CA50	3	10.0	6	535	3210
	CA50	4	12.5	6	514	3084
V2030	CA60	1	5.0	34	131	4454
	CA50	2	6.3	8	584	4672
	CA50	3	10.0	3	589	1767
	CA50	4	10.0	3	669	2007
V2031	CA60	1	5.0	54	139	7506
	CA50	2	6.3	8	963	7704
	CA50	3	10.0	1	452	452
	CA50	4	10.0	3	970	2910
	CA50	5	12.5	2	490	980
	CA50	6	12.5	2	1030	2060
V2032	CA60	1	5.0	54	139	7506
	CA50	2	6.3	8	963	7704
	CA50	3	10.0	1	452	452
	CA50	4	10.0	3	970	2910
	CA50	5	12.5	2	490	980
	CA50	6	12.5	2	1030	2060
3xV2035	CA60	1	5.0	15	71	1065
	CA50	2	8.0	6	96	576
	CA50	3	8.0	6	120	720
V2036	CA60	1	5.0	110	91	10010
	CA60	2	5.0	4	140	560
	CA50	3	6.3	6	550	3300
	CA50	4	6.3	6	47	282
	CA50	5	10.0	3	989	2967
	CA50	6	10.0	1	447	447
	CA50	7	10.0	2	490	980
	CA50	8	12.5	1	920	920
	CA50	9	12.5	2	1197	2394
	CA50	10	12.5	2	429	858

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	731.9	197
	8.0	13	5.6
	10.0	470.4	319
	12.5	219.6	232.7
CA60	5.0	952.4	161.5
PESO TOTAL (kg)			
CA50	754.3		
CA60	161.5		

Volume de concreto (C-30) = 11.64 m³
Área de forma = 104.83 m²



JOSÉ VILMAR P. DE FRAGA
ARQUITETO E URBANISTA

BRUNO REBECHI DALLE MULLE
ENGENHEIRO CIVIL

ANA CAROLINA M. SANTOS
ARQUITETA E URBANISTA

HENRIQUE RODRIGUES DIAS
AUX. ENGENHARIA CIVIL

ESTADO DO RIO GRANDE DO SUL
PREFEITURA MUNICIPAL DE IMBÉ
AVENIDA PARAGUASSÚ, 2070 – CENTRO – IMBÉ – RS
FONE: 51.3627.8515 – CEP: 95.625–000

OBRA: E. M. E. F. RUI BARBOSA
NOVAS INSTALAÇÕES

ADMINISTRAÇÃO 2025/2028
SECRETARIA MUNICIPAL DE EDUCAÇÃO
smed@imbe.rs.gov.br

ENDEREÇO: BAIRRO MARILUZ – IMBÉ – RS
AVENIDA MARILUZ, 1180
TERRENO URBANO – SETOR 35

RESPONSÁVEL: BRUNO

ANA CAROLINA MOREIRA SANTOS
ARQUITETA E URBANISTA
CAU A1715246

BRUNO REBECHI DALLE MULLE
ENGENHEIRO CIVIL
CREA–RS 202822

RUTH JOSIELLI MONTEIRO RUSCHEL
SECRETÁRIA MUNICIPAL DE EDUCAÇÃO

ESCALA: INDICADAS

DATA: ABRIL 2025

ÁREA: 2.491,91m²

PROJETO: ESTRUTURAL
ARMADURAS DAS VIGAS DA COBERTURA – BLOCO 01 – 02

PRANCHA: 23/56