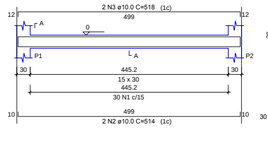
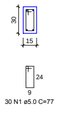
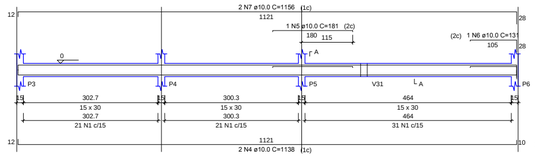
V1
ESC 1:50



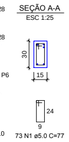
SEÇÃO A-A
ESC 1:25



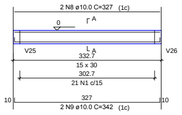
V2
ESC 1:50



SEÇÃO A-A
ESC 1:25

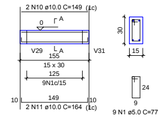


V3
ESC 1:50



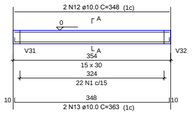
SEÇÃO A-A
ESC 1:25

V4
ESC 1:50

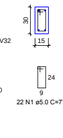


SEÇÃO A-A
ESC 1:25

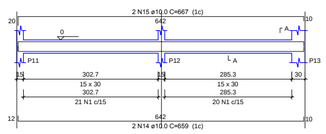
V5
ESC 1:50



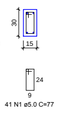
SEÇÃO A-A
ESC 1:25



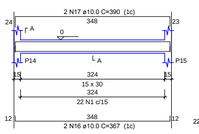
V6
ESC 1:50



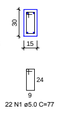
SEÇÃO A-A
ESC 1:25



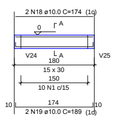
V7
ESC 1:50



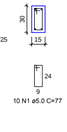
SEÇÃO A-A
ESC 1:25



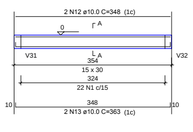
V8
ESC 1:50



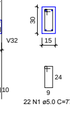
SEÇÃO A-A
ESC 1:25



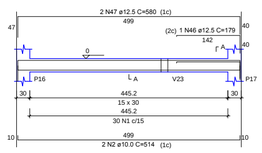
V9
ESC 1:50



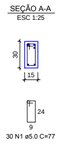
SEÇÃO A-A
ESC 1:25



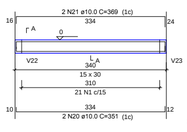
V10
ESC 1:50



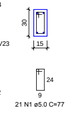
SEÇÃO A-A
ESC 1:25



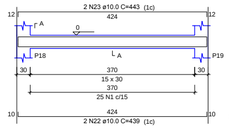
V11
ESC 1:50



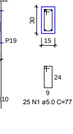
SEÇÃO A-A
ESC 1:25



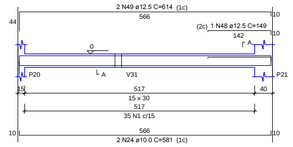
V12
ESC 1:50



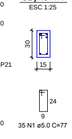
SEÇÃO A-A
ESC 1:25



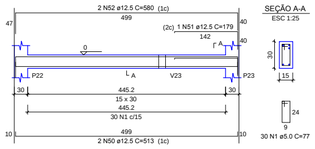
V13
ESC 1:50



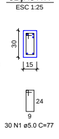
SEÇÃO A-A
ESC 1:25



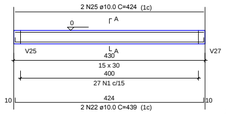
V14
ESC 1:50



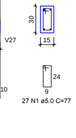
SEÇÃO A-A
ESC 1:25



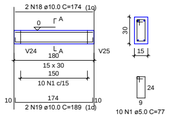
V15
ESC 1:50



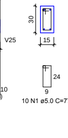
SEÇÃO A-A
ESC 1:25



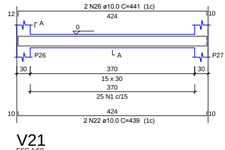
V16
ESC 1:50



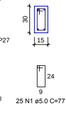
SEÇÃO A-A
ESC 1:25



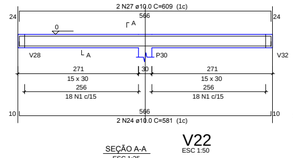
V17
ESC 1:50



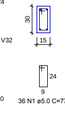
SEÇÃO A-A
ESC 1:25



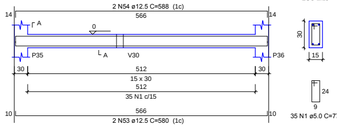
V18
ESC 1:50



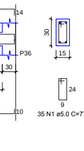
SEÇÃO A-A
ESC 1:25



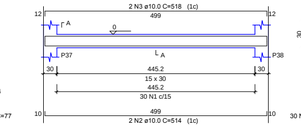
V19
ESC 1:50



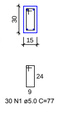
SEÇÃO A-A
ESC 1:25



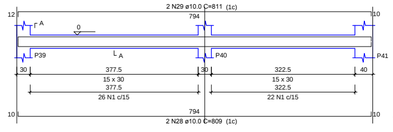
V20
ESC 1:50



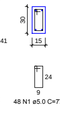
SEÇÃO A-A
ESC 1:25



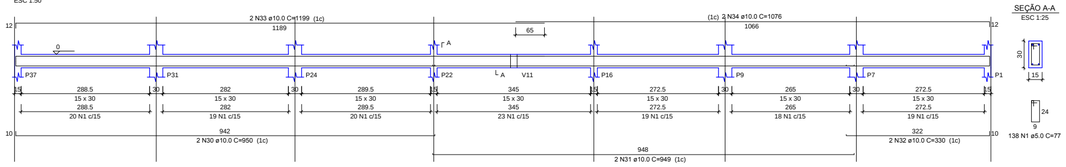
V21
ESC 1:50



SEÇÃO A-A
ESC 1:25

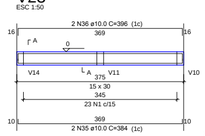


V22
ESC 1:50



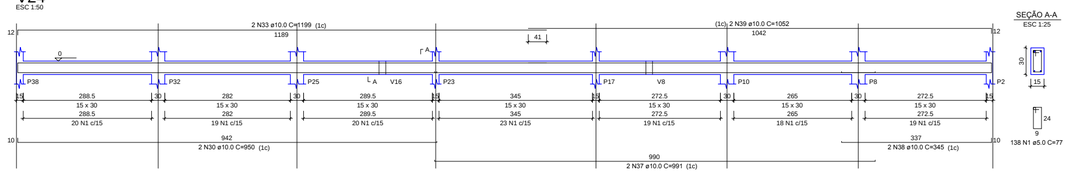
SEÇÃO A-A
ESC 1:25

V23
ESC 1:50



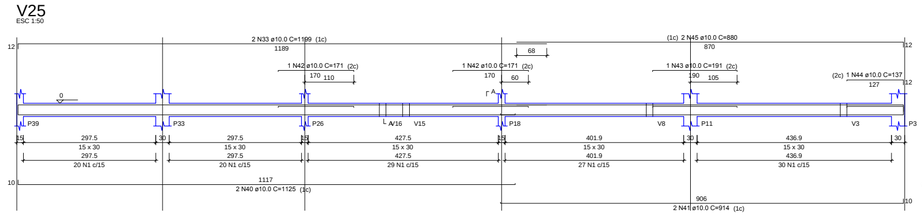
SEÇÃO A-A
ESC 1:25

V24
ESC 1:50

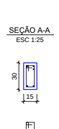


SEÇÃO A-A
ESC 1:25

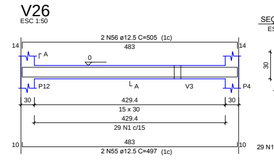
V25
ESC 1:50



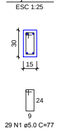
SEÇÃO A-A
ESC 1:25



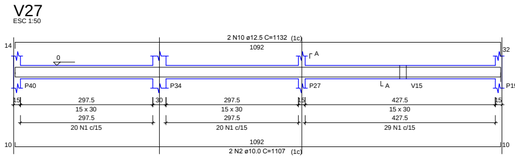
V26
ESC 1:50



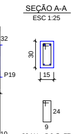
SEÇÃO A-A
ESC 1:25



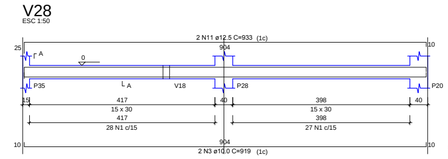
V27
ESC 1:50



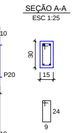
SEÇÃO A-A
ESC 1:25



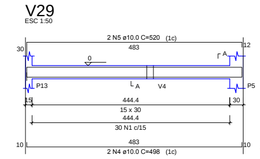
V28
ESC 1:50



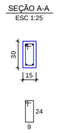
SEÇÃO A-A
ESC 1:25



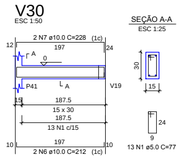
V29
ESC 1:50



SEÇÃO A-A
ESC 1:25

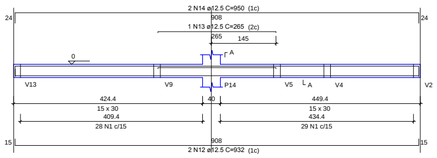


V30
ESC 1:50



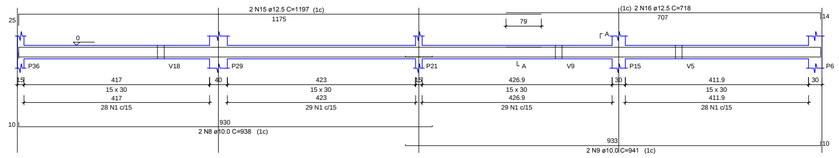
SEÇÃO A-A
ESC 1:25

V31
ESC 1:50

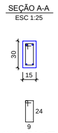


SEÇÃO A-A
ESC 1:25

V32
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12
V13 V14 V15
V16 V17 V18
V19 V20 V21
V22 V23 V24
V25 V26

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1056	77	81312
CA50	2	10.0	6	514	3084
	3	10.0	4	518	2072
	4	10.0	2	1138	2276
	5	10.0	1	181	181
	6	10.0	1	131	131
	7	10.0	2	1156	2312
	8	10.0	2	327	654
	9	10.0	2	342	684
	10	10.0	2	149	298
	11	10.0	2	164	328
	12	10.0	4	348	1392
	13	10.0	4	363	1452
	14	10.0	2	659	1318
	15	10.0	2	667	1334
	16	10.0	2	367	734
	17	10.0	2	390	780
	18	10.0	4	174	696
	19	10.0	4	189	756
	20	10.0	2	351	702
	21	10.0	2	369	738
	22	10.0	6	439	2634
	23	10.0	2	443	886
	24	10.0	4	581	2324
	25	10.0	2	424	848
	26	10.0	2	441	882
	27	10.0	2	609	1218
	28	10.0	2	809	1618
	29	10.0	2	811	1622
	30	10.0	4	950	3800
	31	10.0	2	949	1898
	32	10.0	2	330	660
	33	10.0	6	1199	7194
	34	10.0	2	1076	2152
	35	10.0	2	384	768
	36	10.0	2	396	792
	37	10.0	2	991	1982
	38	10.0	2	345	690
	39	10.0	2	1052	2104
	40	10.0	2	1125	2250
	41	10.0	2	914	1828
	42	10.0	2	171	342
	43	10.0	1	191	191
	44	10.0	1	137	137
	45	10.0	2	880	1760
	46	12.5	1	179	179
	47	12.5	2	580	1160
	48	12.5	1	149	149
	49	12.5	2	614	1228
	50	12.5	2	513	1026
	51	12.5	1	179	179
	52	12.5	2	580	1160
	53	12.5	2	580	1160
	54	12.5	2	588	1176
	55	12.5	2	497	994
	56	12.5	2	505	1010

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	625	423.9
	12.5	94.2	99.8
CA60	5.0	813.1	137.9
PESO TOTAL (kg)			
CA50	523.7		
CA60	137.9		

Volume de concreto (C-25) = 7.70 m³

RELAÇÃO DO AÇO

V27 V28 V29
V30 V31 V32

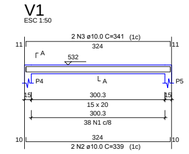
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	338	77	26026
CA50	2	10.0	2	1107	2214
	3	10.0	2	919	1838
	4	10.0	2	498	996
	5	10.0	2	520	1040
	6	10.0	2	212	424
	7	10.0	2	228	456
	8	10.0	2	938	1876
	9	10.0	2	941	1882
	10	12.5	2	1132	2264
	11	12.5	2	933	1866
	12	12.5	2	932	1864
	13	12.5	1	265	265
	14	12.5	2	950	1900
	15	12.5	2	1197	2394
	16	12.5	2	718	1436

RESUMO DO AÇO

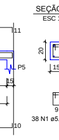
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	107.3	72.7
	12.5	119.9	127
CA60	5.0	260.3	44.1
PESO TOTAL (kg)			
CA50	199.8		
CA60	44.1		

Volume de concreto (C-25) = 2.44 m³

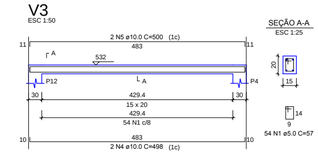
V1
ESC 1:50



SEÇÃO A-A
ESC 1:25

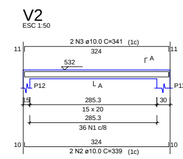


V3
ESC 1:50



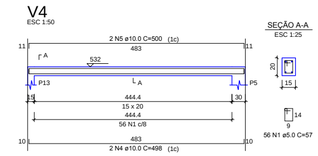
SEÇÃO A-A
ESC 1:25

V2
ESC 1:50



SEÇÃO A-A
ESC 1:25

V4
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12
V13 V14 V15
V16 V17 V18
V19 V20 V21
V22 V23 V24
V25 V26

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1056	77	81312
CA50	2	10.0	6	514	3084
	3	10.0	4	518	2072
	4	10.0	2	1138	2276
	5	10.0	1	181	181
	6	10.0	1	131	131
	7	10.0	2	1156	2312
	8	10.0	2	327	654
	9	10.0	2	342	684
	10	10.0	2	149	298
	11	10.0	2	164	328
	12	10.0	4	348	1392
	13	10.0	4	363	1452
	14	10.0	2	659	1318
	15	10.0	2	667	1334
	16	10.0	2	367	734
	17	10.0	2	390	780
	18	10.0	4	174	696
	19	10.0	4	189	756
	20	10.0	2	351	702
	21	10.0	2	369	738
	22	10.0	6	439	2634
	23	10.0	2	443	886
	24	10.0	4	581	2324
	25	10.0	2	424	848
	26	10.0	2	441	882
	27	10.0	2	609	1218
	28	10.0	2	809	1618
	29	10.0	2	811	1622
	30	10.0	4	950	3800
	31	10.0	2	949	1898
	32	10.0	2	330	660
	33	10.0	6	1199	7194
	34	10.0	2	1076	2152
	35	10.0	2	384	768
	36	10.0	2	396	792
	37	10.0	2	991	1982
	38	10.0	2	345	690
	39	10.0	2	1052	2104
	40	10.0	2	1125	2250
	41	10.0	2	914	1828
	42	10.0	2	171	342
	43	10.0	1	191	191
	44	10.0	1	137	137
	45	10.0	2	880	1760
	46	12.5	1	179	179
	47	12.5	2	580	1160
	48	12.5	1	149	149
	49	12.5	2	614	1228
	50	12.5	2	513	1026
	51	12.5	1	179	179
	52	12.5	2	580	1160
	53	12.5	2	580	1160
	54	12.5	2	588	1176
	55	12.5	2	497	994
	56	12.5	2	505	1010

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	625	423.9
	12.5	94.2	99.8
CA60	5.0	813.1	137.9
PESO TOTAL (kg)			
CA50	523.7		
CA60	137.9		

Volume de concreto (C-25) = 7.70 m³

RELAÇÃO DO AÇO

V27 V28 V29
V30 V31 V32

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	338	77	26026
CA50	2	10.0	2	1107	2214
	3	10.0	2	919	1838
	4	10.0	2	498	996
	5	10.0	2	520	1040
	6	10.0	2	212	424
	7	10.0	2	228	456
	8	10.0	2	938	1876
	9	10.0	2	941	1882
	10	12.5	2	1132	2264
	11	12.5	2	933	1866
	12	12.5	2	932	1864
	13	12.5	1	265	265
	14	12.5	2	950	1900
	15	12.5	2	1197	2394
	16	12.5	2	718	1436

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	107.3	72.7
	12.5	119.9	127
CA60	5.0	260.3	44.1
PESO TOTAL (kg)			
CA50	199.8		
CA60	44.1		

Volume de concreto (C-25) = 2.44 m³

MUNICIPIO DE SÃO JORGE-RS

CNPJ:91.566.851/0001-51

OBRA:
CONSTRUÇÃO DO CENTRO DIA

ENDEREÇO:
RUA DO PARQUE, SÃO JORGE-RS

DESCRIÇÃO:
PROJETO ESTRUTURAL-BALDRAME E VOL.

ÁREA:
338,95 m²

ESCALA:
IND

DATA:
09/07/2025

ANEXO I-M

DANILO SALVALAGGIO
PREFEITO MUNICIPAL

Assinado de forma digital por augusto ben
DN: cn=augusto ben, o, ou, email=solucione.seg@gmail.com, c=BR
Dados: 2025.07.09 18:38:46 -03'00'

RESP. TÉC: AUGUSTO BEN
CREA-RS 236427

DESENHO: AUGUSTO	REVISÃO:00	DATA:09/07/25
DESENHO:	REVISÃO:	DATA:
DESENHO:	REVISÃO:	DATA:

FOLHA:
13