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	

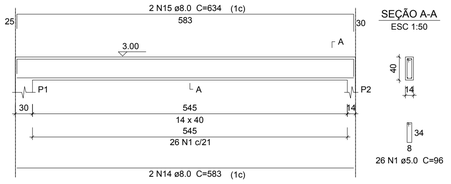
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	411	96	39456
	2	5.0	2	255	510
	3	5.0	2	346	692
	4	5.0	22	116	2552
	5	5.0	2	222	444
	6	5.0	2	286	572
	7	5.0	2	246	492
	8	5.0	2	249	498
	9	5.0	2	252	504
	10	5.0	2	227	454
CA50	11	6.3	13	73	949
	12	6.3	4	107	428
	13	6.3	1	105	105
	14	8.0	2	583	1166
	15	8.0	2	634	1268
	16	8.0	2	553	1106
	17	8.0	2	195	390
	18	8.0	2	172	344
	19	8.0	2	287	574
	20	8.0	2	333	666
	21	8.0	2	288	576
	22	8.0	2	326	652
	23	8.0	2	336	672
	24	8.0	2	374	748
	25	8.0	3	386	1158
	26	8.0	1	594	594
	27	8.0	3	600	1800
	28	8.0	4	157	628
	29	8.0	1	588	588
	30	8.0	3	591	1773
	31	8.0	1	121	121
	32	8.0	1	183	183
	33	8.0	2	186	372
	34	8.0	2	175	350
	35	8.0	2	624	1248
	36	8.0	2	427	854
	37	8.0	1	140	140
	38	8.0	1	475	475
	39	8.0	2	481	962
	40	8.0	2	242	484
	41	8.0	2	336	672
	42	8.0	2	67	134
	43	8.0	2	132	264
	44	8.0	6	137	822
	45	8.0	2	304	608
	46	8.0	1	164	164
	47	8.0	2	344	688
	48	8.0	2	423	846
	49	8.0	1	454	454
	50	8.0	2	460	920
	51	8.0	2	419	838
	52	8.0	1	167	167
	53	8.0	1	450	450
	54	8.0	2	456	912
	55	8.0	1	203	203
	56	8.0	2	449	898
	57	8.0	1	156	156
	58	8.0	2	496	992
	59	8.0	4	296	1184
	60	8.0	2	346	692
	61	8.0	2	415	830
	62	8.0	2	411	822
	63	8.0	1	138	138
	64	8.0	1	185	185
	65	8.0	2	188	376
	66	8.0	1	197	197
	67	8.0	2	460	920
	68	8.0	2	102	204
	69	8.0	2	285	570
	70	10.0	1	181	181
	71	10.0	2	184	368
	72	10.0	2	188	376
	73	10.0	2	258	516
	74	10.0	2	579	1158
	75	10.0	4	479	1916
	76	10.0	1	316	316
	77	10.0	2	468	936
	78	10.0	1	162	162
	79	10.0	2	513	1026
	80	10.0	2	460	920
	81	10.0	1	163	163
	82	10.0	2	340	680
	83	12.5	2	523	1046

Resumo do aço

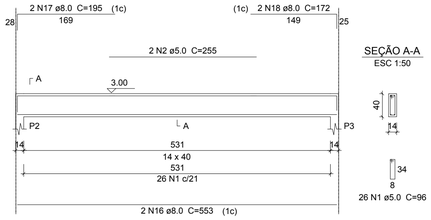
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	14.9	4
	8.0	362	157.1
	10.0	87.2	59.1
	12.5	10.5	11.1
CA60	5.0	461.8	78.3
PESO TOTAL			
CA50	231.3		
CA60	78.3		

Vol. de concreto total (C-25) = 5.52 m³
Área de forma total = 92.5 m²

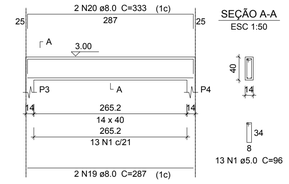
V1
ESC 1:50



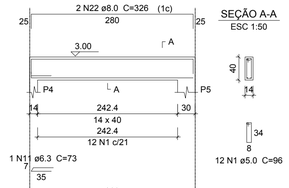
V2
ESC 1:50



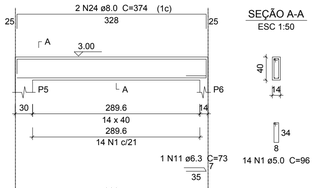
V3
ESC 1:50



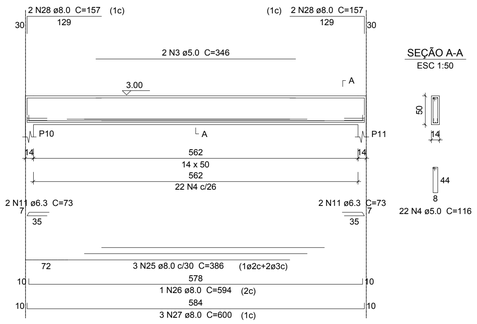
V4
ESC 1:50



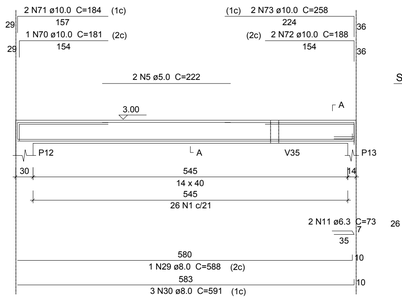
V5
ESC 1:50



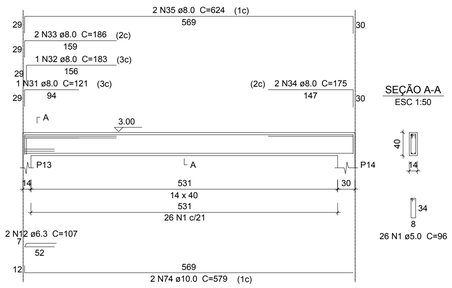
V6
ESC 1:50



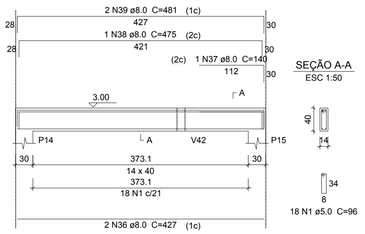
V7
ESC 1:50



V8
ESC 1:50



V9
ESC 1:50



V10
ESC 1:50

V11
ESC 1:50

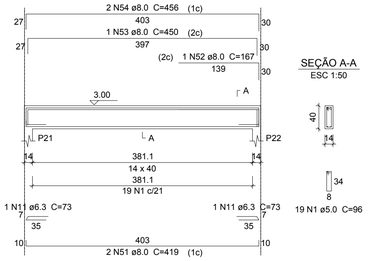
V12
ESC 1:50

V13
ESC 1:50

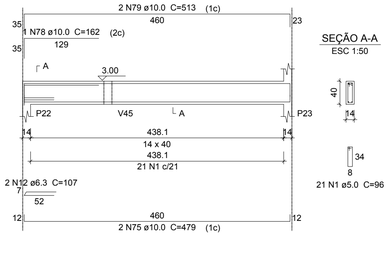
V14
ESC 1:50



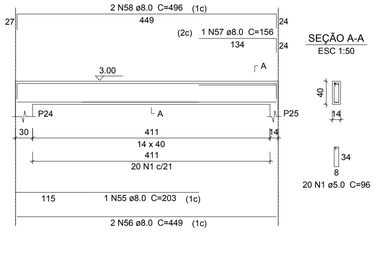
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ESC 1:50



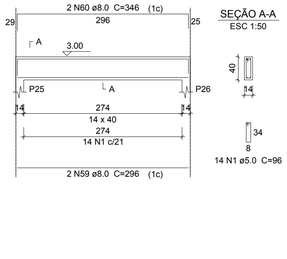
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ESC 1:50



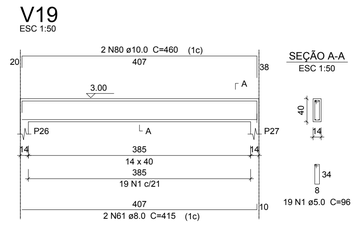
V17
ESC 1:50



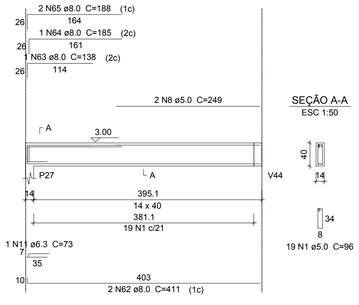
V18
ESC 1:50



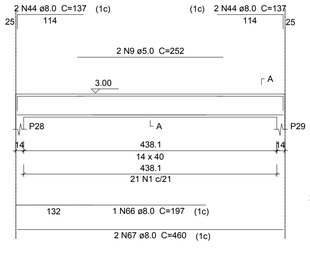
V19
ESC 1:50



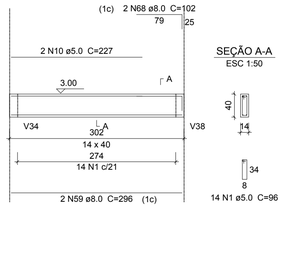
V20
ESC 1:50



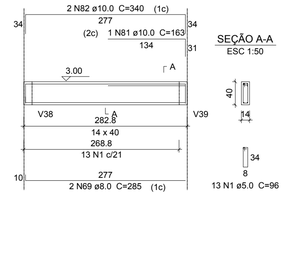
V21
ESC 1:50



V22
ESC 1:50



V23
ESC 1:50



12 VIGAS COBERTURA
ESCALA: 1/50

APROVAÇÃO:

Engeobra
CREA SC 158.454-0
ENGENHARIA E INFRAESTRUTURA

Rua Primo Tacca, 350, Bairro Tacca - Xanxerê- SC
E-mail:engenharia.engeobra@gmail.com Cel: (49) 9 9976-0226

OBRA: CONSTRUÇÃO CEIM - AMPLIAÇÃO 01

LOCAL: Vila Diadema

PROJETO: ESTRUTURAL

ESPECIFICAÇÕES:
- Vigas treinamento

DATA: 04/2021

DESENHO: T.L

ÁREA: 367,97 m²

ESCALA: Indicada

PRANCHA: 08 /10

Projeto:

Assinado de forma digital por ENGEOBRA ENGENHARIA E INFRAESTRUTURA EIRELI:26831579000128
Dados: 2021.06.17 16:17:18 -03'00'

SAMUEL SPESSATTO OUTEIRO
Engº Civil- CREA SC 133319-7

Proprietário:

PREFEITURA MUNICIPAL DE XAXIM