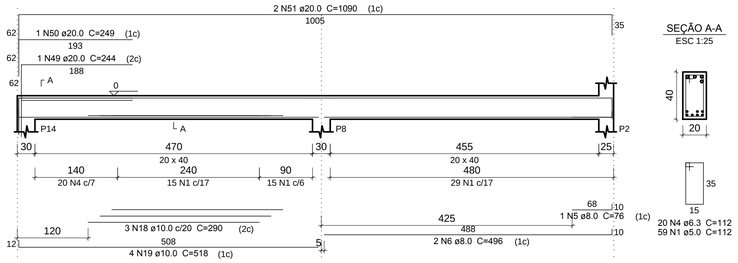
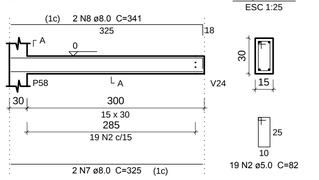
V40 (20 x 40)

ESC 1:50



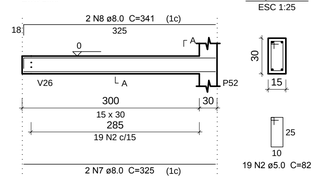
V41 (15 x 30)

ESC 1:50



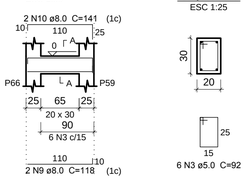
V42 (15 x 30)

ESC 1:50



V43 (20 x 30)

ESC 1:50



Relação do aço

V40	V41	V42
V43	V44	V45
V46	V47	V48
V49	V50	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	615	112	68880
	2	5.0	38	82	3116
	3	5.0	12	92	1104
CA50	4	6.3	20	112	2240
	5	8.0	1	76	76
	6	8.0	2	496	992
	7	8.0	4	325	1300
	8	8.0	4	341	1364
	9	8.0	4	118	472
	10	8.0	4	141	564
	11	8.0	6	245	1470
	12	8.0	2	512	1024
	13	8.0	6	516	3096
	14	8.0	4	273	1092
	15	8.0	4	1021	4084
	16	8.0	1	143	143
	17	8.0	2	296	592
	18	10.0	3	290	870
	19	10.0	12	518	6216
	20	10.0	6	295	1770
	21	12.5	6	522	3132
	22	12.5	1	151	151
	23	12.5	2	225	450
	24	12.5	1	285	285
	25	12.5	1	167	167
	26	12.5	1	702	702
	27	12.5	1	718	718
	28	12.5	1	722	722
	29	12.5	3	1097	3291
	30	12.5	6	207	1242
	31	12.5	4	250	1000
	32	12.5	2	270	540
	33	12.5	4	199	796
	34	12.5	4	1100	4400
	35	12.5	1	160	160
	36	12.5	2	220	440
	37	12.5	1	305	305
	38	12.5	1	720	720
	39	12.5	1	700	700
	40	12.5	1	740	740
	41	12.5	2	1053	2106
	42	12.5	4	200	800
	43	12.5	4	1101	4404
	44	16.0	4	1056	4224
	45	16.0	3	305	915
	46	16.0	1	722	722
	47	16.0	1	237	237
	48	16.0	2	1124	2248
	49	20.0	1	244	244
	50	20.0	1	249	249
	51	20.0	2	1090	2180
	52	20.0	1	716	716
	53	20.0	2	786	1572

Resumo do aço

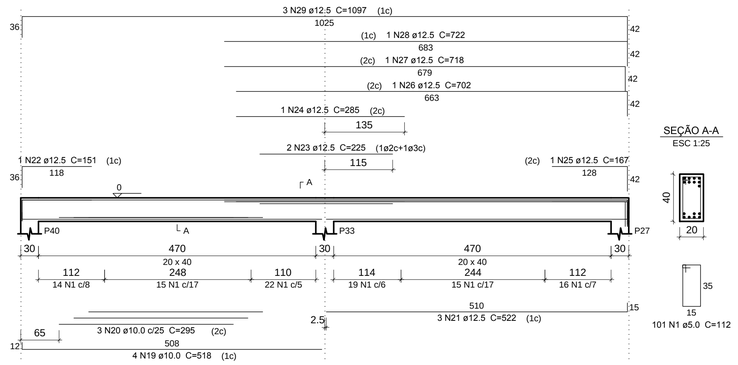
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	22.4	6
	8.0	162.7	70.6
	10.0	88.6	60.1
	12.5	279.8	296.4
	16.0	83.5	144.9
	20.0	49.7	134.6
CA60	5.0	731	123.9

PESO TOTAL (kg)	
CA50	712.6
CA60	123.9

Volume de concreto (C-30) = 6.15 m³
Área de forma = 78.29 m²

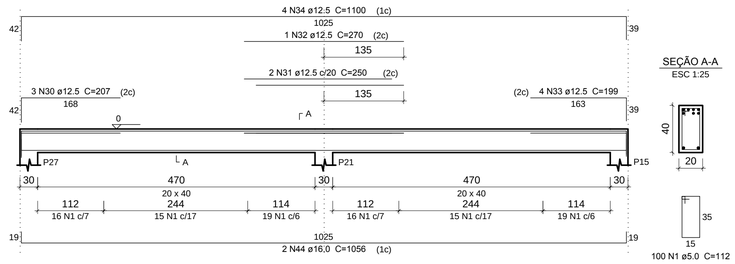
V44 (20 x 40)

ESC 1:50



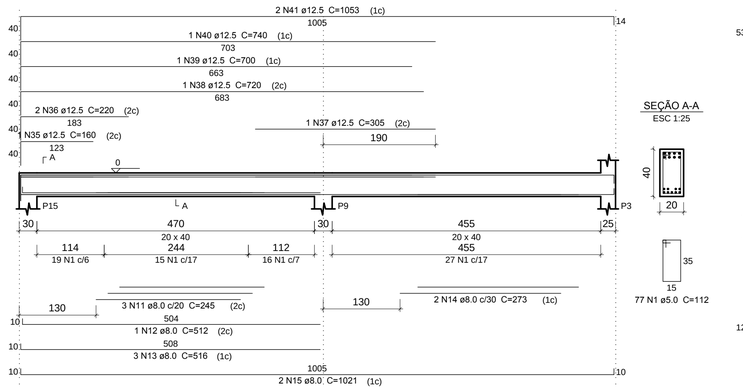
V45 (20 x 40)

ESC 1:50



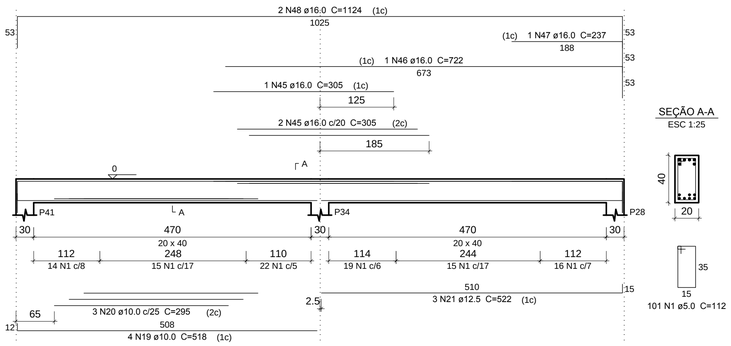
V46 (20 x 40)

ESC 1:50



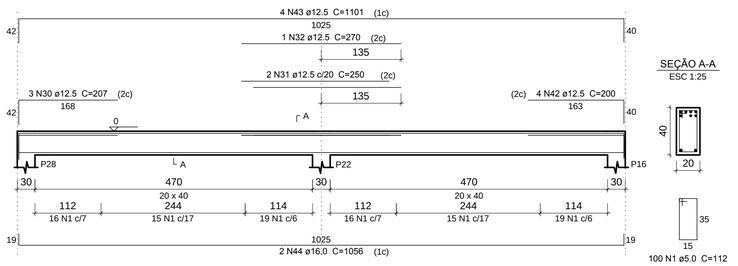
V47 (20 x 40)

ESC 1:50



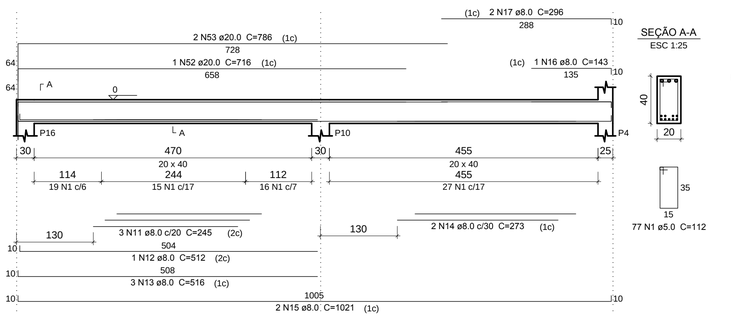
V48 (20 x 40)

ESC 1:50



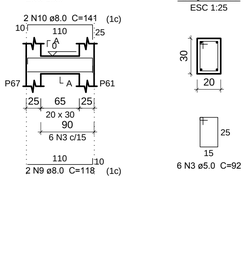
V49 (20 x 40)

ESC 1:50



V50 (20 x 30)

ESC 1:50



PREFEITURA MUNICIPAL
DE SÃO JOÃO DO PARAÍSO/MG

JM ASSESSORIA SERVIÇOS E CONSTRUÇÕES LTDA

OBRA/SERVIÇO:
MERCADO MUNICIPAL

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE SÃO JOÃO DO PARAÍSO/MG
CNPJ: 24.791.154/0001-07

MÔNICA CRISTINE MENDES
PREFEITA MUNICIPAL

ENDEREÇO:
PRAÇA DO MERCADO S/Nº - SEDE DO MUNICÍPIO - SÃO JOÃO DO PARAÍSO/MG

PROJETO:
PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

MARCOS PAULO MADUREIRA LOPES
ENGENHEIRO CIVIL - CREA MG: 224.188/D

ÁREAS:
- ÁREA PAVIMENTO TÉRREO: 1.200,00 M2
- ÁREA SUB-SOLO (CONSTRUÍDA): 714,00 M2
- ÁREA TOTAL EDIFICADA: 1.348,74 M2
ÁREA TOTAL (INCLUSO PILOTIS) = 1.914,00 M2

RRT Nº:

PROPOSTA Nº:

DATA: MARÇO/2020

ESCALA: INDICADA

CONTEÚDO:
VIGAS NÍVEL MERCADO

FOLHA: 13/18