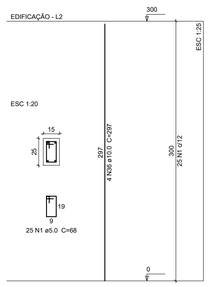
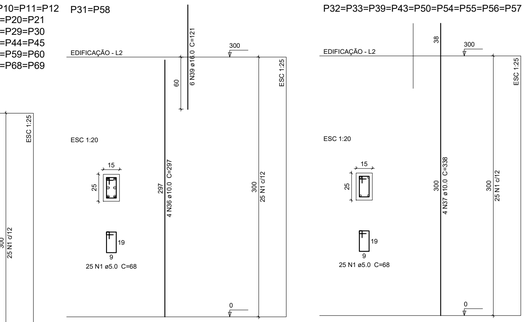
P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12
=P13=P14=P15=P16=P17=P18=P19=P20=P21
=P22=P23=P24=P25=P26=P27=P28=P29=P30
=P35=P36=P37=P38=P40=P41=P42=P44=P45
=P46=P47=P48=P49=P51=P52=P53=P59=P60
=P61=P62=P63=P64=P65=P66=P67=P68=P69

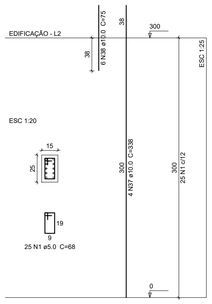


P31=P58

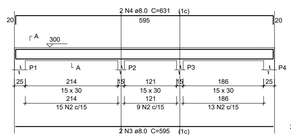
P32=P33=P39=P43=P50=P54=P55=P56=P57



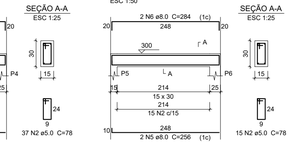
P34



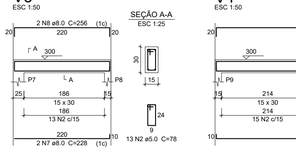
V1
ESC 1:50



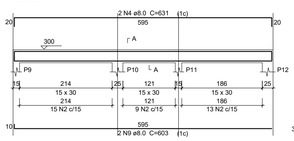
SEÇÃO A-A
ESC 1:25



SEÇÃO A-A
ESC 1:25

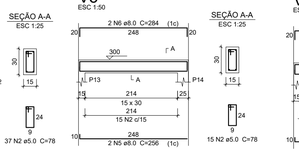


SEÇÃO A-A
ESC 1:25



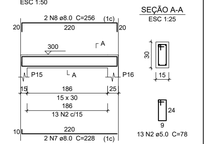
SEÇÃO A-A
ESC 1:25

V5
ESC 1:50



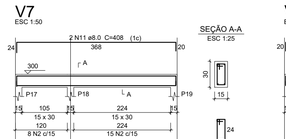
SEÇÃO A-A
ESC 1:25

V6
ESC 1:50



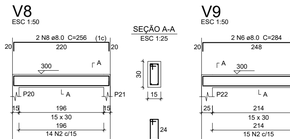
SEÇÃO A-A
ESC 1:25

V7
ESC 1:50



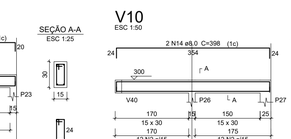
SEÇÃO A-A
ESC 1:25

V8
ESC 1:50



SEÇÃO A-A
ESC 1:25

V9
ESC 1:50

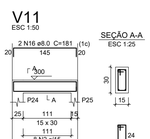


SEÇÃO A-A
ESC 1:25

V10
ESC 1:50

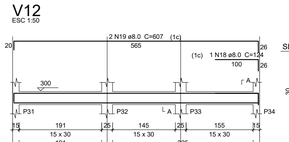
SEÇÃO A-A
ESC 1:25

V11
ESC 1:50



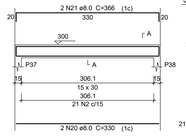
SEÇÃO A-A
ESC 1:25

V12
ESC 1:50



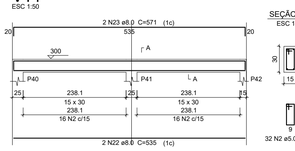
SEÇÃO A-A
ESC 1:25

V13
ESC 1:50



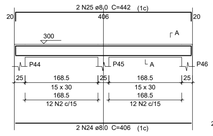
SEÇÃO A-A
ESC 1:25

V14
ESC 1:50



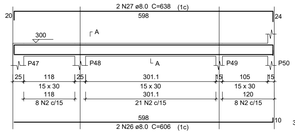
SEÇÃO A-A
ESC 1:25

V15
ESC 1:50



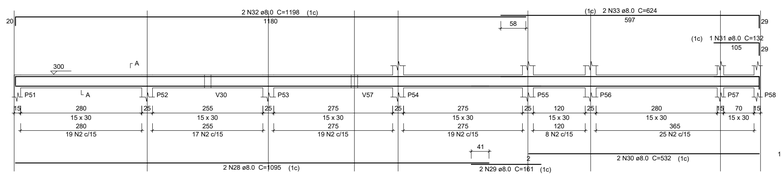
SEÇÃO A-A
ESC 1:25

V16
ESC 1:50



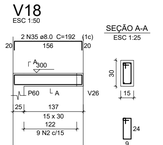
SEÇÃO A-A
ESC 1:25

V17
ESC 1:50



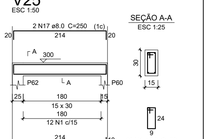
SEÇÃO A-A
ESC 1:25

V18
ESC 1:50



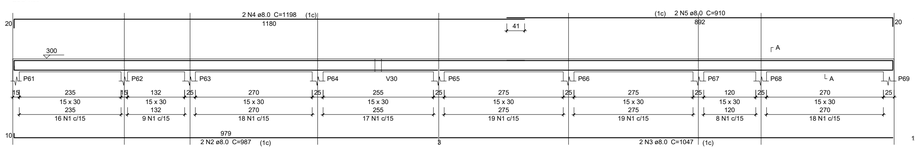
SEÇÃO A-A
ESC 1:25

V25
ESC 1:50



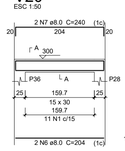
SEÇÃO A-A
ESC 1:25

V19
ESC 1:50



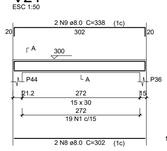
SEÇÃO A-A
ESC 1:25

V20
ESC 1:50



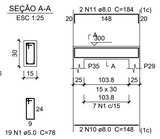
SEÇÃO A-A
ESC 1:25

V21
ESC 1:50



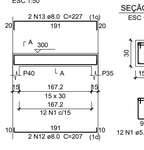
SEÇÃO A-A
ESC 1:25

V22
ESC 1:50



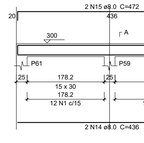
SEÇÃO A-A
ESC 1:25

V23
ESC 1:50



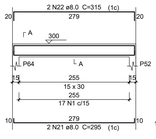
SEÇÃO A-A
ESC 1:25

V24
ESC 1:50



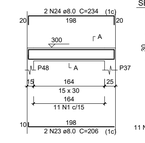
SEÇÃO A-A
ESC 1:25

V28
ESC 1:50



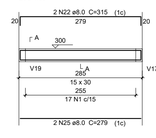
SEÇÃO A-A
ESC 1:25

V29
ESC 1:50



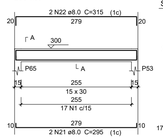
SEÇÃO A-A
ESC 1:25

V30
ESC 1:50



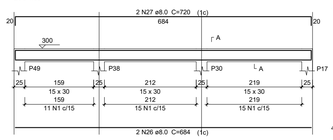
SEÇÃO A-A
ESC 1:25

V31
ESC 1:50



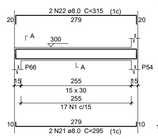
SEÇÃO A-A
ESC 1:25

V32
ESC 1:50



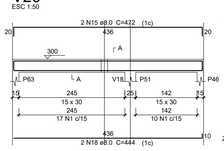
SEÇÃO A-A
ESC 1:25

V34
ESC 1:50



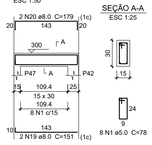
SEÇÃO A-A
ESC 1:25

V26
ESC 1:50



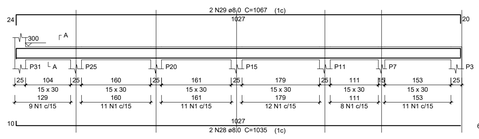
SEÇÃO A-A
ESC 1:25

V27
ESC 1:50



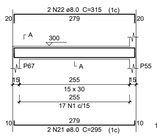
SEÇÃO A-A
ESC 1:25

ESC 1:50 V37



SEÇÃO A-A
ESC 1:25

ESC 1:50 V38

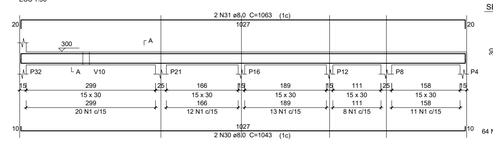


SEÇÃO A-A
ESC 1:25

ESC 1:50 V39

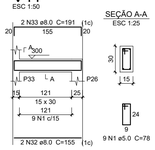
SEÇÃO A-A
ESC 1:25

V40
ESC 1:50



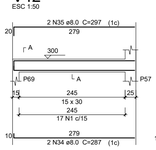
SEÇÃO A-A
ESC 1:25

V41
ESC 1:50



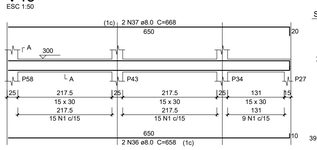
SEÇÃO A-A
ESC 1:25

V42
ESC 1:50



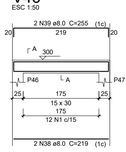
SEÇÃO A-A
ESC 1:25

V43
ESC 1:50



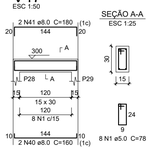
SEÇÃO A-A
ESC 1:25

V46
ESC 1:50



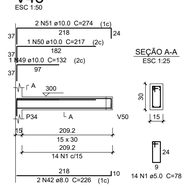
SEÇÃO A-A
ESC 1:25

V47
ESC 1:50



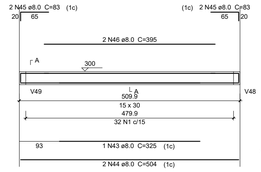
SEÇÃO A-A
ESC 1:25

V48
ESC 1:50



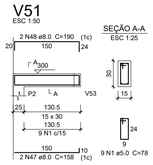
SEÇÃO A-A
ESC 1:25

V50
ESC 1:50



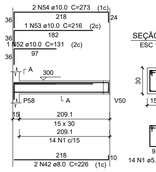
SEÇÃO A-A
ESC 1:25

V51
ESC 1:50



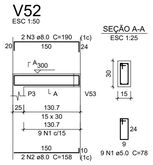
SEÇÃO A-A
ESC 1:25

V49
ESC 1:50



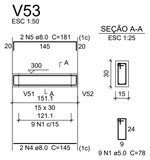
SEÇÃO A-A
ESC 1:25

V52
ESC 1:50



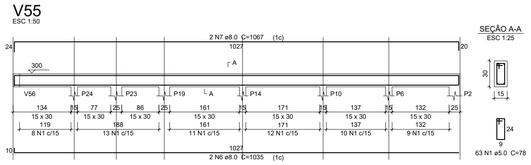
SEÇÃO A-A
ESC 1:25

V53
ESC 1:50



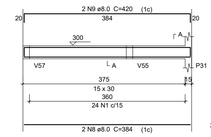
SEÇÃO A-A
ESC 1:25

V55
ESC 1:50



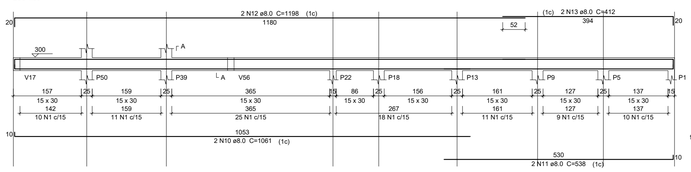
SEÇÃO A-A
ESC 1:25

V56
ESC 1:50



SEÇÃO A-A
ESC 1:25

V57
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

V19	V20	V21			
V22	V23	V24			
V25	V26	V27			
V28	V29	V30			
V31	V32	V34			
V37	V38	V39			
V40	V41	V42			
V43	V46	V47			
V48	V49	V50			
V51					

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	680	78	53040
CA50	2	8.0	2	987	1974
	3	8.0	2	1047	2094
	4	8.0	2	1198	2396
	5	8.0	2	910	1820
	6	8.0	2	204	408
	7	8.0	2	240	480
	8	8.0	2	302	604
	9	8.0	2	338	676
	10	8.0	2	148	296
	11	8.0	2	184	368
	12	8.0	2	207	414
	13	8.0	2	227	454
	14	8.0	2	436	872
	15	8.0	4	472	1888
	16	8.0	2	222	444
	17	8.0	2	250	500
	18	8.0	2	444	888
	19	8.0	2	151	302
	20	8.0	2	179	358
	21	8.0	10	295	2950
	22	8.0	12	315	3780
	23	8.0	2	206	412
	24	8.0	2	234	468
	25	8.0	2	279	558
	26	8.0	2	684	1368
	27	8.0	2	720	1440
	28	8.0	2	1035	2070
	29	8.0	2	1067	2134
	30	8.0	2	1043	2086
	31	8.0	2	1063	2126
	32	8.0	2	155	310
	33	8.0	2	191	382
	34	8.0	2	287	574
	35	8.0	2	297	594
	36	8.0	2	658	1316
	37	8.0	2	668	1336
	38	8.0	2	219	438
	39	8.0	2	255	510
	40	8.0	2	160	320
	41	8.0	2	180	360
	42	8.0	4	226	904
	43	8.0	1	325	325
	44	8.0	2	504	1008
	45	8.0	4	83	332
	46	8.0	2	395	790
	47	8.0	2	158	316
	48	8.0	2	190	380
	49	10.0	1	132	132
	50	10.0	1	217	217
	51	10.0	2	274	548
	52	10.0	1	131	131
	53	10.0	1	216	216
	54	10.0	2	273	546

Relação do aço

57xP1	2xP31	9xP32			
P34	V1	V2			
V3	V4	V5			
V6	V7	V8			
V9	V10	V11			
V12	V13	V14			
V15	V16	V17			
V18					

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1725	68	117300
CA50	2	5.0	479	78	37362
	3	8.0	2	595	1190
	4	8.0	4	631	2524
	5	8.0	6	256	1536
	6	8.0	6	284	1704
	7	8.0	4	228	912
	8	8.0	6	256	1536
	9	8.0	2	603	1206
	10	8.0	2	384	768
	11	8.0	2	408	816
	12	8.0	2	236	472
	13	8.0	2	370	740
	14	8.0	2	398	796
	15	8.0	2	153	306
	16	8.0	2	181	362
	17	8.0	2	565	1130
	18	8.0	1	124	124
	19	8.0	2	607	1214
	20	8.0	2	330	660
	21	8.0	2	366	732
	22	8.0	2	535	1070
	23	8.0	2	571	1142
	24	8.0	2	406	812
	25	8.0	2	442	884
	26	8.0	2	606	1212
	27	8.0	2	638	1276
	28	8.0	2	1095	2190
	29	8.0	2	161	322
	30	8.0	2	532	1064
	31	8.0	1	132	132
	32	8.0	2	1198	2396
	33	8.0	2	624	1248
	34	8.0	2	156	312
	35	8.0	2	192	384
	36	10.0	236	297	70092
	37	10.0	40	338	13520
	38	10.0	6	75	450
	39	16.0	12	121	1452

Relação do aço

V52	V53	V55
V56	V57	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	199	78	15522
CA50	2	8.0	2	158	316
	3	8.0	2	190	380
	4	8.0	2	145	290
	5	8.0	2	181	362
	6	8.0	2	1035	2070
	7	8.0	2	1067	2134
	8	8.0	2	384	768
	9	8.0	2	420	840
	10	8.0	2	1061	2122
	11	8.0	2	538	1076
	12	8.0	2	1198	2396
	13	8.0	2	412	824

Resumo do aço

AÇO	DIAM	C.TOTAL (m)
CA50	8.0	135.8
CA60	5.0	155.3
PESO TOTAL		
CA50	53.6	
CA60	23.9	

Vol. de concreto total (C-25) = 1.47 m³
Área de forma total = 24.43 m²

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO
CA50	8.0	331.8	131
	10.0	840.7	525.4
	16.0	14.6	25.2
CA60	5.0	1546.7	238
PESO TOTAL			
CA50	681.6		
CA60	238		

Vol. de concreto total (C-25) = 11.31 m³
Área de forma total = 224.69 m²

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO
CA50	8.0	468.3	184.86
	10.0	17.9	11.16
CA60	5.0	530.4	81.62
PESO TOTAL			
CA50	196.04		
CA60	81.62		

Vol. de concreto total (C-25) = 5.14 m³
Área de forma total = 85.65 m²

TÍTULO:
AMPLIAÇÃO DE UNIDADE DE SAÚDE

ALEXANDRO COSTA CESAR02843530601 Assinado de forma digital por ALEXANDRO COSTA CESAR02843530601 Dados: 2021.07.26 15:59:43 -03'00'

PREFEITURA MUNICIPAL DE PIRAPORA
CNPJ - 23.539.463/0001-21

OPERAÇÃO 1061293-96 — CONTRATO DE REPASSE 55214/2018

RESPONSÁVEL TÉCNICO:
RODRIGO SOARES MAGALHAES:10854911672 Assinado de forma digital por RODRIGO SOARES MAGALHAES:10854911672 Dados: 2021.07.26 15:59:21 -03'00'
RODRIGO SOARES MAGALHÃES
ENGENHEIRO CIVIL 199076/D

CONTÉM:
VIGAS E PILARES DO CINTAMENTO

DATA:	ESCALA:	PRANCHA:
MAIO/21	INDICADA	07/15

ENDEREÇO:
AV. GOVERNADOR VALADARES - CENTRO
PIRAPORA - CEP - 39270-000

ÁREA DO LOTE.:	ÁREA A CONSTRUIR:
1259,72 m²	229,25 m²