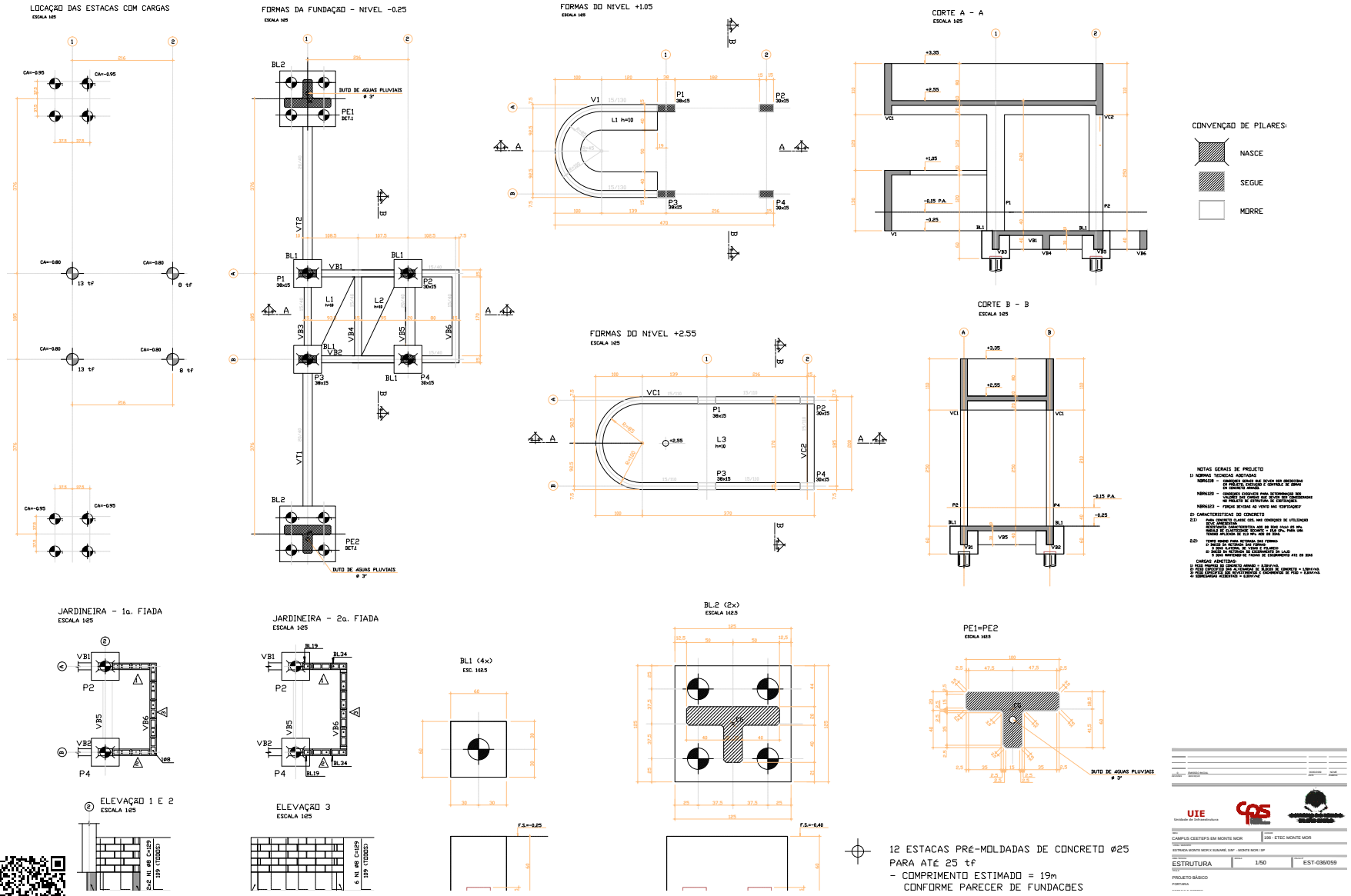

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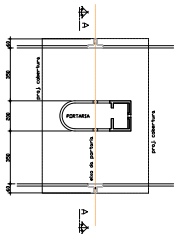
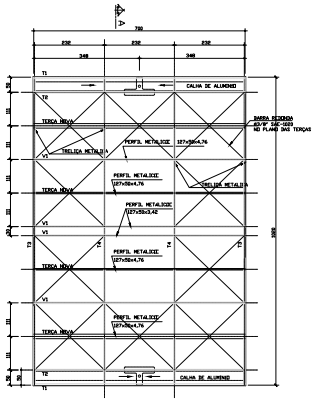
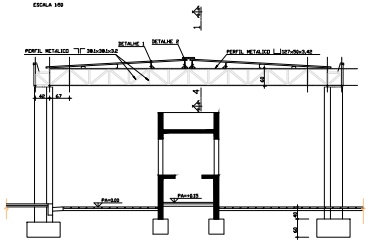
SIGA

SITUAÇÃO
ESCALA 1/50



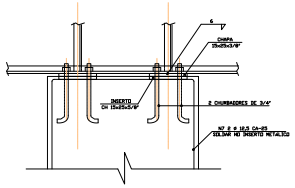


CORTE A-A (TRELIÇA 4)
ESCALA 1/50

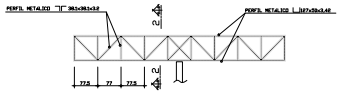


CORTE 1-1
ESCALA 1/50

DETALHE DE FIXAÇÃO
ESCALA 1/10

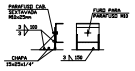


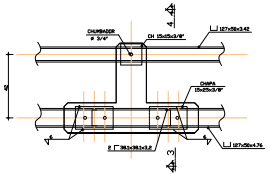
TRELIÇA 1 (x2)
ESCALA 1/50



CORTE 2-2
ESCALA 1/50

DETALHE 1
ESCALA 1/10





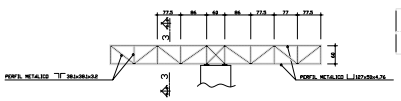
NOTAS GERAIS DE PROJETO

1) NORMAS TECNICAS ADOTADAS
NBR6118 - CONDIÇÕES GERAIS QUE DEVEM SER OBSERVADAS EM PROJETO, EXECUÇÃO E CONTROLE DE OBRAS DE CONCRETO ARMADO
NBR6120 - CARGAS MÍNIMAS PARA DETERMINAÇÃO DAS CARGAS QUE DEVEM SER CONSIDERADAS NO PROJETO DE ESTRUTURA DE EDIFICAÇÕES
NBR6123 - FORÇAS DEVIDAS AO VENTO NAS EDIFICAÇÕES

2) CARACTERISTICAS DO CONCRETO
2.1) PARA CONCRETO CLASSE C25, NAS CONDIÇÕES DE UTILIZAÇÃO DEVE APRESENTAR:
RESISTENCIA CARACTERISTICA AOS 28 DIAS (fck) 25 MPa.
MODULO DE ELASTICIDADE INICIAL (Eci) 28,5 GPa. PARA GRA TEMAS DEVEM SER DE 12,5 MPa AOS 28 DIAS.
2.2) TEMPO MINIMO PARA RETIRADA DAS FORMAS:
1º DIAS EM ALTERNA DAS FORMAS
2º DIAS EM ALTERNA DE ESCORAMENTO:
3º DIAS EM ALTERNA DE ESCORAMENTO
5 DIAS MANTENDO-SE PARTE DE ESCORAMENTO ATÉ 28 DIAS

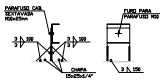
CARGAS ADMITIDAS:
1) PESO PROPRIO DE CONCRETO ARMADO = 2,5t/m³=h3.
2) PESO PROPRIO DE ALVENARIA DE BLOCOS DE CONCRETO = 1,35t/m³=h3.
3) PESO ESPECIFICO DOS REVESTIMENTOS E ENCHIMENTOS DE PISO = 0,24t/m².
4) SOBRECARGA ACIDENTAL = 0,25t/m².

TRELIÇA 2 (x2)
ESCALA 1/50

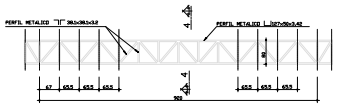


CORTE 3-3
ESCALA 1/50

DETALHE 2
ESCALA 1/10

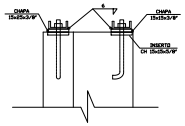


TRELIÇA 3
ESCALA 1/50



CORTE 4-4
ESCALA 1/50

CORTE 5-5
ESCALA 1/10



NOTAS:
1) AÇO PARA CHAPAS = ASTM A-36
2) PERFIS LEVES EM CHAPA FINA AÇO A570, GRAU 33
3) CHUMBADORES AÇO SAE 1020
4) ELETRODO PARA SOLDA MANUAL E7018X

LISTA DE MATERIAIS		
PEÇA	QUANTIDADE	PESO (kg)
127x50x3,42	123,60 m	780
127x50x4,76	44,40 m	380
38x38x3x3,42	357,20 m	719
CHAPA 1/4"	0,12 m2	7
CHAPA 3/8"	0,20 m2	16
CHAPA 5/8"	0,20 m2	25
CHUMBADOR SAE 1020	10 un	——

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ESTRADA MONTE MOR X SUMARÉ, 2457 - MONTE MOR / SP

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PROJETO BÁSICO
PORTARIA

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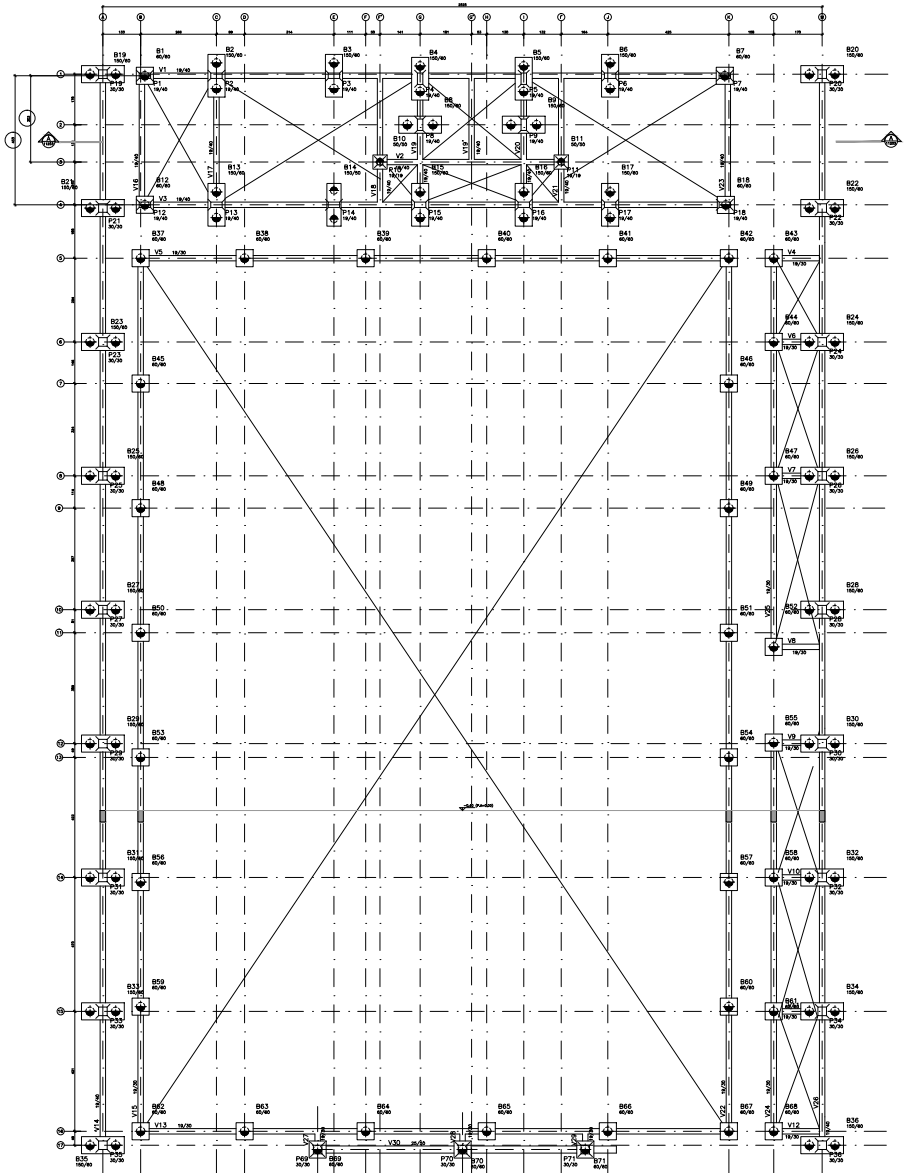

Sem	FZ MAX-ELUS-Verificações de apoio Nulo (Eixo - Pilares e fundações		
	Fz	Mx	My
B1	10,0	-1,4	0,4
B2	12,4	-1,0	0,4
B3	15,7	-1,3	-0,7
B4	16,7	-1,3	-0,5
B5	16,1	-1,3	-0,5
B6	15,5	-0,9	0,7
B7	12,3	1,0	-1,0
B8	10,0	1,4	0,4
B9	34,3	0,7	-0,1
B10	1,5	0,8	0,3
B11	1,5	0,8	-0,3
B12	10,5	-1,1	0,4
B13	14,3	-1,3	0,1
B14	1,5	-1,1	-0,4
B15	34,3	-1,3	0,1
B16	34,6	-1,3	-0,1
B17	10,5	1,0	-0,4
B18	1,5	1,1	0,4
B19	8,9	0,7	0,2
B20	8,9	0,7	0,2
B21	8,9	0,0	0,2
B22	8,9	0,1	0,2
B23	8,9	0,0	0,2
B24	8,9	0,0	0,1
B25	8,9	0,0	0,1
B26	8,9	0,0	0,1
B27	8,9	0,0	0,1
B28	8,9	0,0	0,1
B29	8,9	0,0	0,1
B30	8,9	0,1	0,2
B31	8,9	0,1	0,2
B32	8,9	0,0	0,2
B33	8,9	0,0	0,2
B34	8,9	0,0	-0,1
B35	8,9	0,0	0,2
B36	8,9	0,1	0,2
B37	2,1	0,0	0,3
B38	2,1	0,0	0,3
B39	2,1	0,0	0,3
B40	2,1	0,0	0,3
B41	2,1	0,0	0,3
B42	2,1	0,0	0,3
B43	2,1	0,0	0,3
B44	1,4	0,0	0,1
B45	1,4	0,0	0,1
B46	1,4	0,0	0,1
B47	1,4	0,0	0,1
B48	1,4	0,0	0,0
B49	1,4	0,0	0,0
B50	1,4	0,0	0,0
B51	1,4	0,0	0,0
B52	1,4	-0,0	0,0
B53	1,4	0,0	0,0
B54	1,4	0,0	0,0
B55	1,4	0,0	0,0
B56	1,4	0,0	0,0
B57	1,4	0,0	0,0
B58	1,4	0,0	0,0
B59	1,4	0,0	0,0
B60	1,4	0,0	0,0
B61	1,4	0,0	0,0
B62	2,1	0,0	0,3
B63	2,1	0,0	0,3
B64	2,1	0,0	0,3
B65	2,1	0,0	0,3
B66	2,1	0,0	0,3
B67	2,1	0,0	0,3
B68	2,1	0,0	0,3
B69	3,9	-0,4	0,3
B70	4,3	-1,8	0,1
B71	3,9	-1,4	0,1
	3,9	-1,8	0,8

Convenções
1 - Apoios
2 - Forças em valores característicos
3 - Forças em tf
4 - Momentos em tfm
5 - Reações em coordenadas GLOBAL

Convenção de sinais

MOMENTOS NOS EIXOS GLOBAIS X E Y
COM SINAIS SEGUINDO A CONVENÇÃO VETORIAL

REVISÃO	DESCRIÇÃO	DATA	TES NUMRUS
0	EMISSÃO INICIAL	00/00/0000	

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PROJETO BÁSICO

QUADRA COM VESTIÁRIOS - PLANTA DE FORMA DA FUNDAÇÃO

PAVIMENTO TÉRREO

CONSTRUÇÃO

ARQ. FIDELIS PRATES NETO | ARQ. FIDELIS PRATES NETO | UIE

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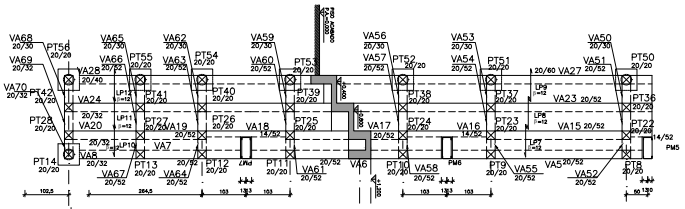
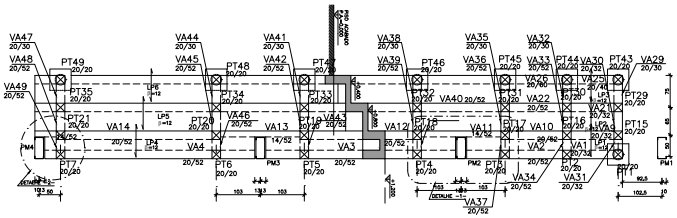
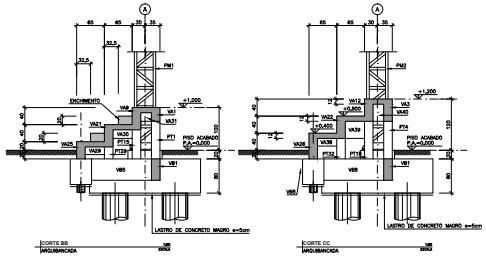
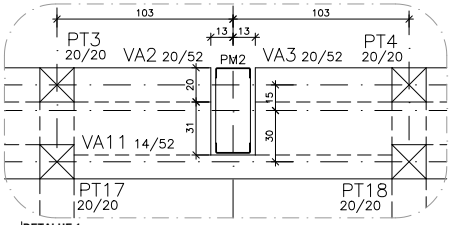


FORMA DA ARQUIBANCADA 1:50 ESCALA
ARQUIBANCADA – QUADRA

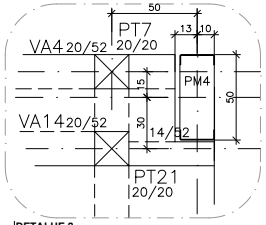




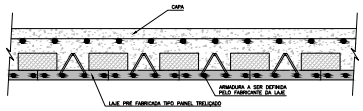
CORTE BB ARQUIBANCADA 1:50
CORTE CC ARQUIBANCADA 1:50



DETALHE 1 1:25 ESCALA
ARQUIBANCADA – QUADRA



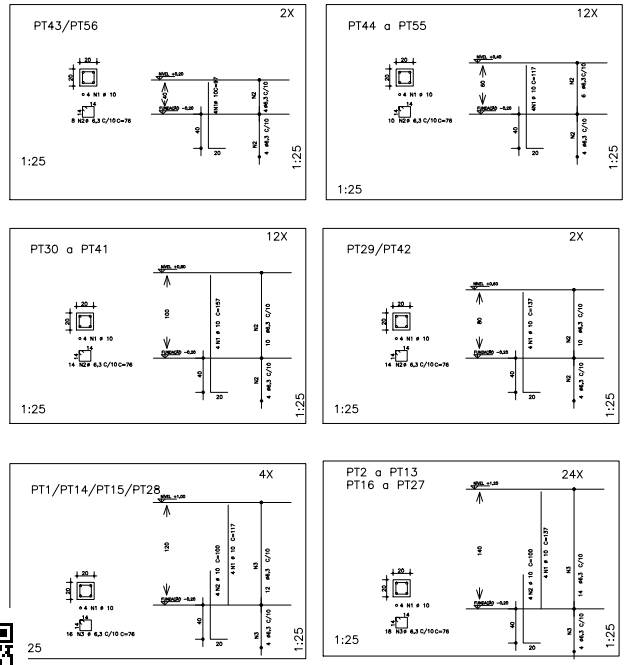
DETALHE 2 1:25 ESCALA
ARQUIBANCADA – QUADRA



DETALHE DA LAJE DE COBERTURA 1:10
ARQUIBANCADA – QUADRA

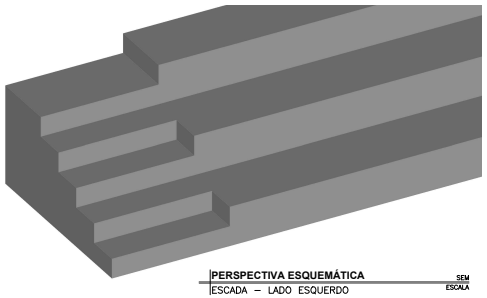
OBSERVAÇÃO:

O DIMENSIONAMENTO DAS LAJES DEVERA SER CONFIRMADO PELO FABRICANTE PARA AS CARGAS DE PROJETO, MANTENDO COMO CONDIÇÕES MINIMAS O DETALHAMENTO CONSTANTE DOS DESENHOS DO PROJETO ESTRUTURAL.
A ARMAÇÃO ADICIONAL DESTAS LAJES DEVERA SER DEFINIDA PELO FABRICANTE, PARA AS CONDIÇÕES DE PROJETO, PREVENDO INCLUSIVE, O EFEITO DAS EVENTUAIS ALVENARIAS APOIADAS DIRETAMENTE NA LAJE.

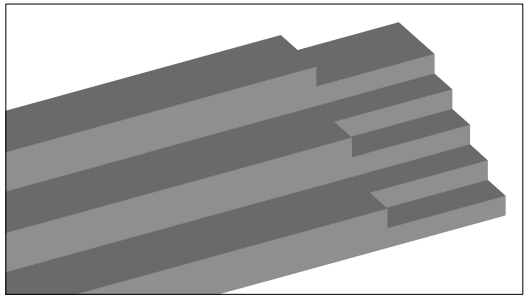


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
PT1/PT14/PT15/PT28 (4x)					
CA-50	1	10	16	117	1872
CA-50	2	10	16	100	1600
CA-50	3	6,3	64	76	4864
PT2 a PT13/PT16 a PT27 (24x)					
CA-50	1	10	96	137	13152
CA-50	2	10	96	100	9600
CA-50	3	6,3	432	76	32832
PT29/PT42 (2x)					
CA-50	1	10	8	137	1096
CA-50	2	6,3	28	76	2128
PT30 a PT41 (12x)					
CA-50	1	10	48	157	7536
CA-50	2	6,3	168	76	12768
PT43/PT56 (2x)					
CA-50	1	10	8	97	776
CA-50	2	6,3	16	76	1216
PT44 a PT55 (12x)					
CA-50	1	10	48	117	5616
CA-50	2	6,3	120	76	9120

AÇO	BIT (mm)	COMPR (m)	PESO (kg)
CA-50	6,3	629	157
CA-50	10	412	260
PESO TOTAL		CA 50 =	417
PESO TOTAL + 10%		CA 50 =	459



PERSPECTIVA ESQUEMÁTICA SEM ESCALA
ESCADA – LADO ESQUERDO



PERSPECTIVA ESQUEMÁTICA SEM ESCALA
ESCADA – LADO DIREITO

REVISÃO	DESCRIÇÃO	DATA	TES
0	EMISSÃO INICIAL	00/00/0000	TES

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CAMPUS CEETEPS EM MONTE MOR — 198 - ETEC MONTE MOR

ESTRADA MONTE MOR X SUMARÉ, S/Nº - MONTE MOR / SP

ESTRUTURA — INDICADA — EST-039/059

PROJETO BÁSICO

QUADRA COM VESTIÁRIOS - PLANTA DE FORMA DAS ARQUIBANCADAS - ARMAÇÃO DE PILARES E DETALHES

PAVIMENTO TÉRREO

CONSTRUÇÃO

ARQ. FIDELIS PRATES NETO — ARQ. FIDELIS PRATES NETO — UIE

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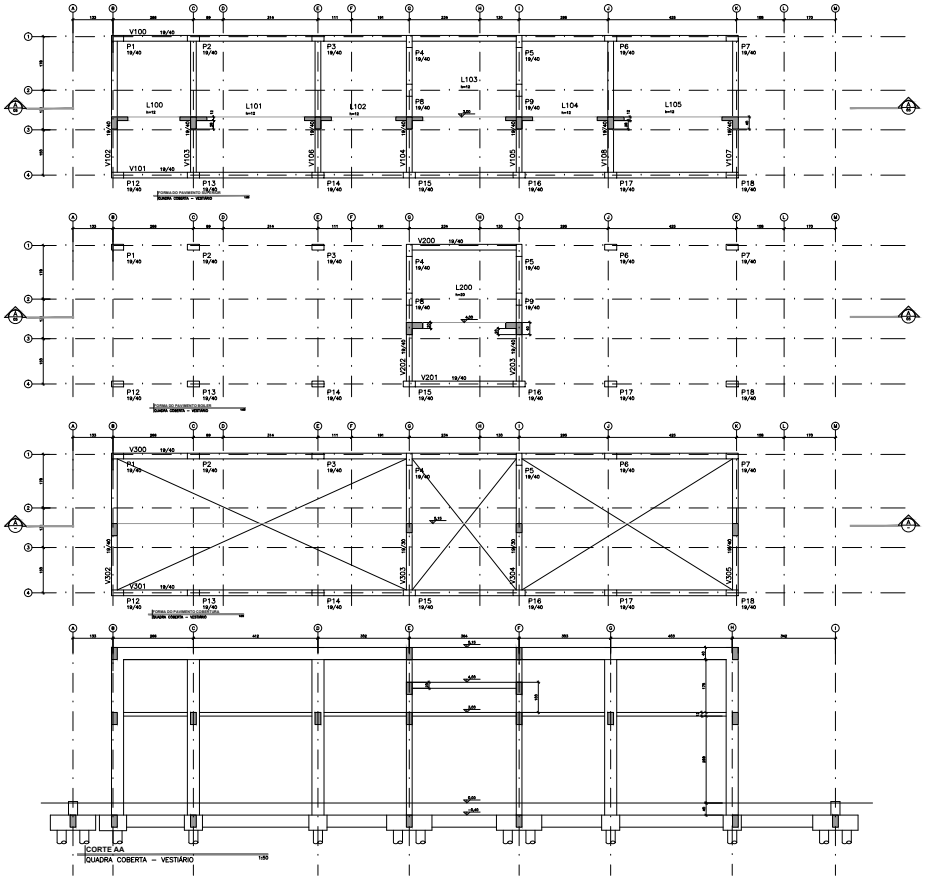

UIE Unidade de Infraestrutura			
CAMPUS CEETEPS EM MONTE MOR		159 - ETEC MONTE MOR	
ESTRADA MONTE MOR X GUIMARÃ, S/Nº - MONTE MOR / SP			
ESTRUTURA	INDICADA	EST-040/059	

PROJETO BÁSICO

QUADRA COM VESTIÁRIOS - PLANTA DE FORMA DOS PAVIMENTOS BOILER SUPERIOR E COBERTURA - CORTE

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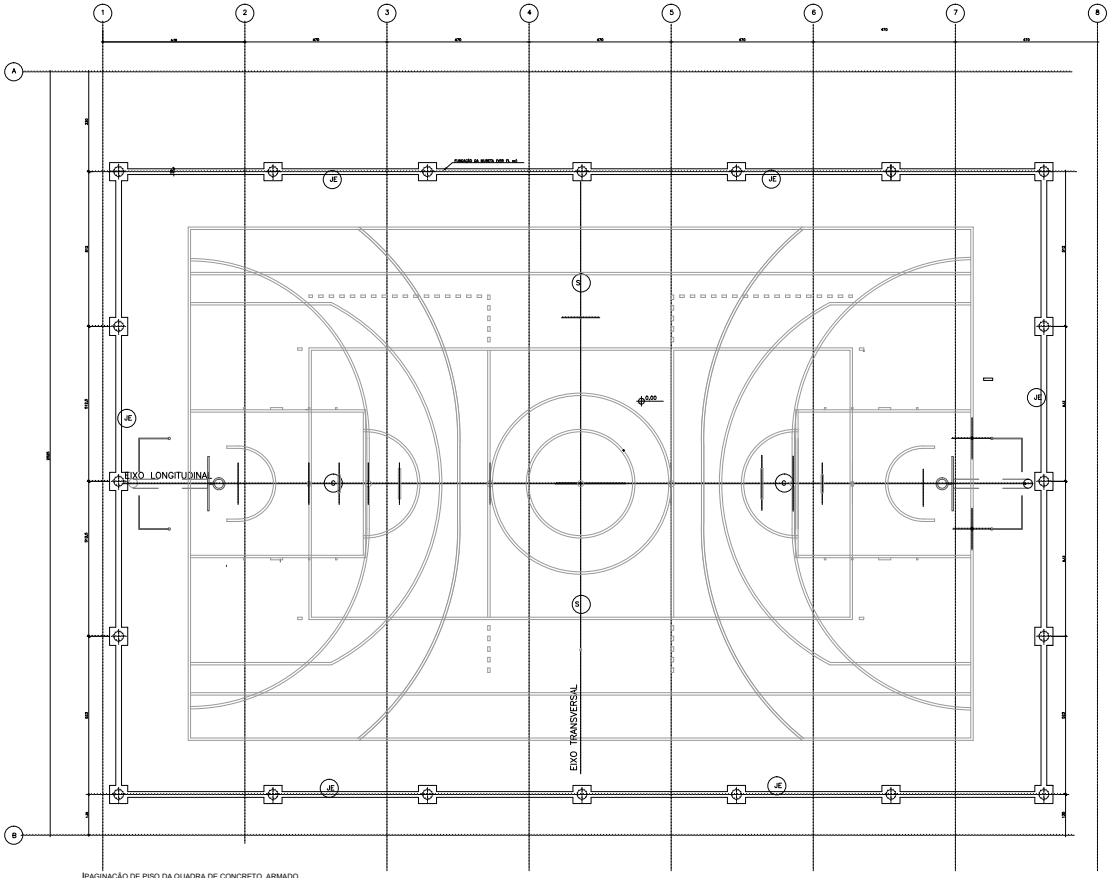
Governo do Estado de São Paulo
93

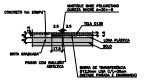
NOTAS:

1- QUANDO NÃO INDICADO EM PROJETO, DEVE-SE CONSIDERAR DECLIVIDADE MÍNIMA DE 0,5% NO SENTIDO DO EIXO TRANSVERSAL OU LONGITUDINAL PARA AS EXTREMIDADES DA QUADRA DEVENDO NESTE CASO, TODOS OS AJUSTES DE DECLIVIDADE SEREM INDICADOS NO PREFIXO DO SUB LEITO.
2- CONCRETO fck=25MPa
3- ABATIMENTO = 8±1cm
3- CONSUMO MÍNIMO DE CIMENTO: 320 a 380kg/m³

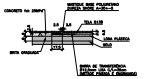
LEGENDA DOS DETALHES DA SEÇÃO DA QUADRA DE CONCRETO:
(C) – JUNTA DE CONSTRUÇÃO;
(S) – JUNTA SERRADA;
(P) – PERÍMETRO DO PISO.



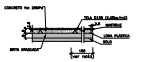
PAGINAÇÃO DE PISO DA QUADRA DE CONCRETO ARMADO
PLANTA
ESCALA 1:50



DETALHE DA JUNTA DE CONSTRUÇÃO (C)
QUADRA POLIESPORTIVA
1:25



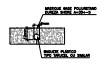
DETALHE DA JUNTA SERRADA (S)
QUADRA POLIESPORTIVA
1:25



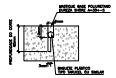
NOTA: INTERROMPER A LONA À 1m ANTES DA JUNTA DE PERÍMETRO

DETALHE DO PERÍMETRO DO PISO (P)
QUADRA POLIESPORTIVA
1:25

QUANTIFICAÇÃO DA TELA:
ÁREA = 621m² ---> PESO DA TELA SOLDADA Q138=2,2kg/m² TOTAL=1367kg
BARRA Ø12,5 CA-25 ---> Ø12,5C/20cm C=30cm
TOTAL 210 BARRAS = 73,5m ---> 1kg/m= 73,5kg



SELANTE PARA JUNTA DE CONSTRUÇÃO (C)
QUADRA POLIESPORTIVA
SEM ESCALA



SELANTE PARA JUNTA SERRADA (S)
QUADRA POLIESPORTIVA
SEM ESCALA

Nº DOCUMENTO	REVISÕES / EMISSÕES	DATA	RESPONSÁVEL

UIE
Unidade de Infraestrutura

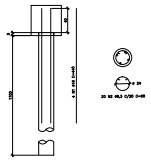
OBRA	CAMPUS CEETEPS EM MONTE MOR
UGE	108 - ETEC MONTE MOR
ENDEREÇO	ESTRADA MONTE MOR X SUMARÉ, 2487 - MONTE MOR / SP

DISC. TÍTULO	STATUS	NÚMERO
ESTRUTURA	INDICADA	EST-041/059

PROJETO BÁSICO
QUADRA COM VESTIÁRIOS - PLANTA DA QUADRA E DA COBERTURA - DETALHE DAS JUNTAS DO PISO

CEETEPSCAP2022632673A

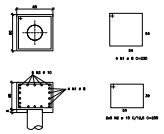
Autenticado com senha por LAILA CRISTINA DA SILVA FURLAN - Assessor Técnico Administrativo III / UIE/DE/DP - 26/12/2022 às 16:57:31.
Documento Nº: 60909551-8205 - consulta à autenticidade em https://www.documentos.spsempapel.sp.gov.br/sigaex/public/app/autenticar?n=60909551-8205



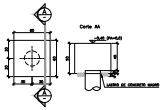
AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO	
				UNIT (cm)	TOTAL (cm)
ESTACA TIPO HELICE CONTINUA (101x)					
CA-50	1	12	12	408	4896
CA-50	2	8,0	4	200	800
AÇO	BIT (mm)	COMPR (m)		PESO (kg)	
CA-50	12	4896		4344	
CA-50	12	1216		1079	
PESO TOTAL		CA 50 =		5398	
PESO TOTAL +10%		CA 50 =		5938	

ESTACA TIPO HELICE CONTINUA Ø 30 (101x)
DETALHE 1:25

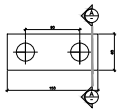
AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO	
				UNIT (cm)	TOTAL (cm)
ARMAÇÃO DO BLOCO UMA ESTACA (41x)					
CA-50	1	8	164	230	37720
CA-50	2	10	41	295	12095
AÇO	BIT (mm)	COMPR (m)		PESO (kg)	
CA-50	10	377		232	
CA-50	12	120		107	
PESO TOTAL		CA 50 =		339	
PESO TOTAL +10%		CA 50 =		374	

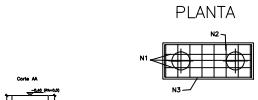


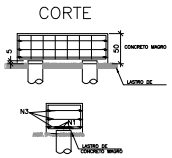
ARMAÇÃO BLOCO UMA ESTACA (41x)
DETALHE 1:25

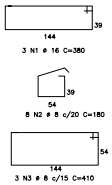


DETALHE DO BLOCO UMA ESTACA (41x)
QUADRA COBERTA 1:25









AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO	
				UNIT (cm)	TOTAL (cm)
ARMAÇÃO DO BLOCO DUAS ESTACAS (30x)					
CA-50	1	10	10	380	3800
CA-50	1	8	240	180	43200
CA-50	2	8	120	410	49200
AÇO	BIT (mm)	COMPR (m)		PESO (kg)	
CA-50	10	538		331	
CA-50	8	926		365	
PESO TOTAL		CA 50 =		696	
PESO TOTAL + 10%		CA 50 =		766	

DETALHE DO BLOCO DUAS ESTACAS (30x)
QUADRA COBERTA 1:25

ARMAÇÃO BLOCO DUAS ESTACAS (30x)
DETALHE 1:25

00	EMISSÃO INICIAL		
REVISÃO	DESCRIÇÃO	ATENDIMENTO	DATA

UIE
Unidade de Infraestrutura

OBRA: CAMPUS CEETEPS EM MONTE MOR	CÓDIGO: 156 - ETEC MONTE MOR
ENDEREÇO: ESTRADA MONTE MOR X SUMARE, S/Nº - MONTE MOR / SP	
ESPECIALIDADE: ESTRUTURA	ÁREA: INDICADA
PRANCHA: EST-042/059	

TÍTULO: PROJETO BÁSICO
QUADRA COM VESTIÁRIOS - ARMAÇÃO DAS ESTACAS E DOS BLOCOS DE FUNDAÇÃO
PAVIMENTO TÉRREO
CONSTRUÇÃO

RESPONSÁVEL: ARQ. FIDELIS PRATES NETO	ARQUITETO: ARQ. FIDELIS PRATES NETO	CREA/CAU: 608
OBSERVAÇÕES: CONFERIR MEDIDAS NO LOCAL	DATA: 07/01/2020	ESCALA: 1:25 / 1:50 / 1:75 / 1:100 / 1:125 / 1:150 / 1:200 / 1:250 / 1:300 / 1:400 / 1:500 / 1:750 / 1:1000 / 1:1500 / 1:2000 / 1:2500 / 1:3000 / 1:4000 / 1:5000 / 1:6000 / 1:7500 / 1:10000 / 1:15000 / 1:20000 / 1:25000 / 1:30000 / 1:40000 / 1:50000 / 1:60000 / 1:75000 / 1:100000 / 1:150000 / 1:200000 / 1:250000 / 1:300000 / 1:400000 / 1:500000 / 1:600000 / 1:750000 / 1:1000000 / 1:1500000 / 1:2000000 / 1:2500000 / 1:3000000 / 1:4000000 / 1:5000000 / 1:6000000 / 1:7500000 / 1:10000000 / 1:15000000 / 1:20000000 / 1:25000000 / 1:30000000 / 1:40000000 / 1:50000000 / 1:60000000 / 1:75000000 / 1:100000000 / 1:150000000 / 1:200000000 / 1:250000000 / 1:300000000 / 1:400000000 / 1:500000000 / 1:600000000 / 1:750000000 / 1:1000000000 / 1:1500000000 / 1:2000000000 / 1:2500000000 / 1:3000000000 / 1:4000000000 / 1:5000000000 / 1:6000000000 / 1:7500000000 / 1:10000000000 / 1:15000000000 / 1:20000000000 / 1:25000000000 / 1:30000000000 / 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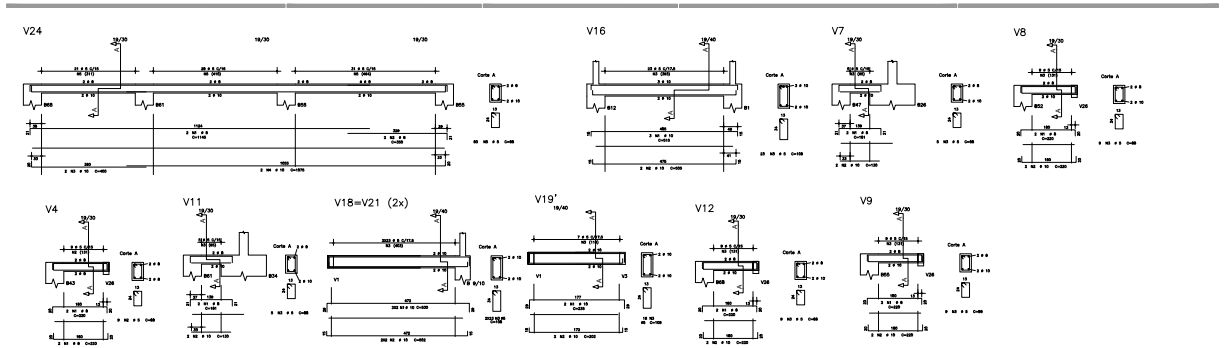

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V4					
	CA-60	1	8	4	220	880
	CA-60	2	5	9	88	792
V7					
	CA-60	1	8	2	181	362
	CA-60	2	10	2	130	260
	CA-60	3	5	9	88	440
V8					
	CA-60	1	8	2	220	440
	CA-60	2	10	2	220	440
	CA-60	3	5	9	88	792
V9					
	CA-60	1	8	2	220	440
	CA-60	2	10	2	220	440
	CA-60	3	5	9	88	792
V10					
	CA-60	1	8	2	181	362
	CA-60	2	10	2	130	260
	CA-60	3	5	5	88	440
V11					
	CA-60	1	8	2	181	362
	CA-60	2	10	2	130	260
	CA-60	3	5	5	88	440
V12					
	CA-60	1	8	2	220	440
	CA-60	2	10	2	220	440
	CA-60	3	5	9	88	792
V16					
	CA-60	1	10	3	515	1545
	CA-60	2	10	2	505	1010
	CA-60	3	5	23	108	2484
V18 =V21 (2x)					
	CA-60	1	10	4	530	2120
	CA-60	2	10	4	502	2009
	CA-60	3	5	43	108	4644
V20					
	CA-60	1	10	2	420	840
	CA-60	2	10	2	403	806
	CA-60	3	6.3	9	108	972
	CA-60	4	5	4	108	432
V23					
	CA-60	1	10	3	626	1878
	CA-60	2	10	2	510	1020
	CA-60	3	5	23	108	2484
V25					
	CA-60	1	5	2	260	520
	CA-60	2	6	2	872	1744
	CA-60	3	8	2	630	1260
	CA-60	4	8	2	1070	2140
	CA-60	5	8	2	405	810
	CA-60	6	5	81	88	7128
V19'						
	CA-60	1	10	2	373	746
	CA-60	2	10	2	348	696
	CA-60	3	5	16	108	1728
V24						
	CA-60	1	8	2	1145	2290
	CA-60	2	8	2	350	700
	CA-60	3	10	2	400	800
	CA-60	4	10	2	1075	2150
	CA-60	5	5	85	88	7040

AÇO	BIT (mm)	COMPR (m)	PESO (kg)
CA-60	4	908	50
CA-60	6.3	13	2
CA-60	8	122	49
CA-60	10	174	110
PESO TOTAL	CA. 60 =		50
	CA. 60 =		160
PESO TOTAL + 10%	CA. 60 =		54
	CA. 60 =		177

DATA	EMISSÃO INICIAL	ASSINADO PELA
01/06/2020	01/06/2020	

UIE
Unidade de Infraestrutura

CAMPUS CEETEPS EM MONTE MOR | 156 - ETEC MONTE MOR

ESTRADA MONTE MOR X SUMARÉ, S/Nº - MONTE MOR / SP

ESTRUTURA | INDICADA | EST-043/059

PROJETO BÁSICO

QUADRA COM VESTIÁRIOS - ARMAÇÃO DAS VIGAS BALDRAMES

PAVIMENTO TÉRREO

CONSTRUÇÃO

ARQ. FIDELIS PRATES NETO	ARQ. FIDELIS PRATES NETO	008
CONFERIR MEDIDAS NO LOCAL	05/01/2020	R0	A1

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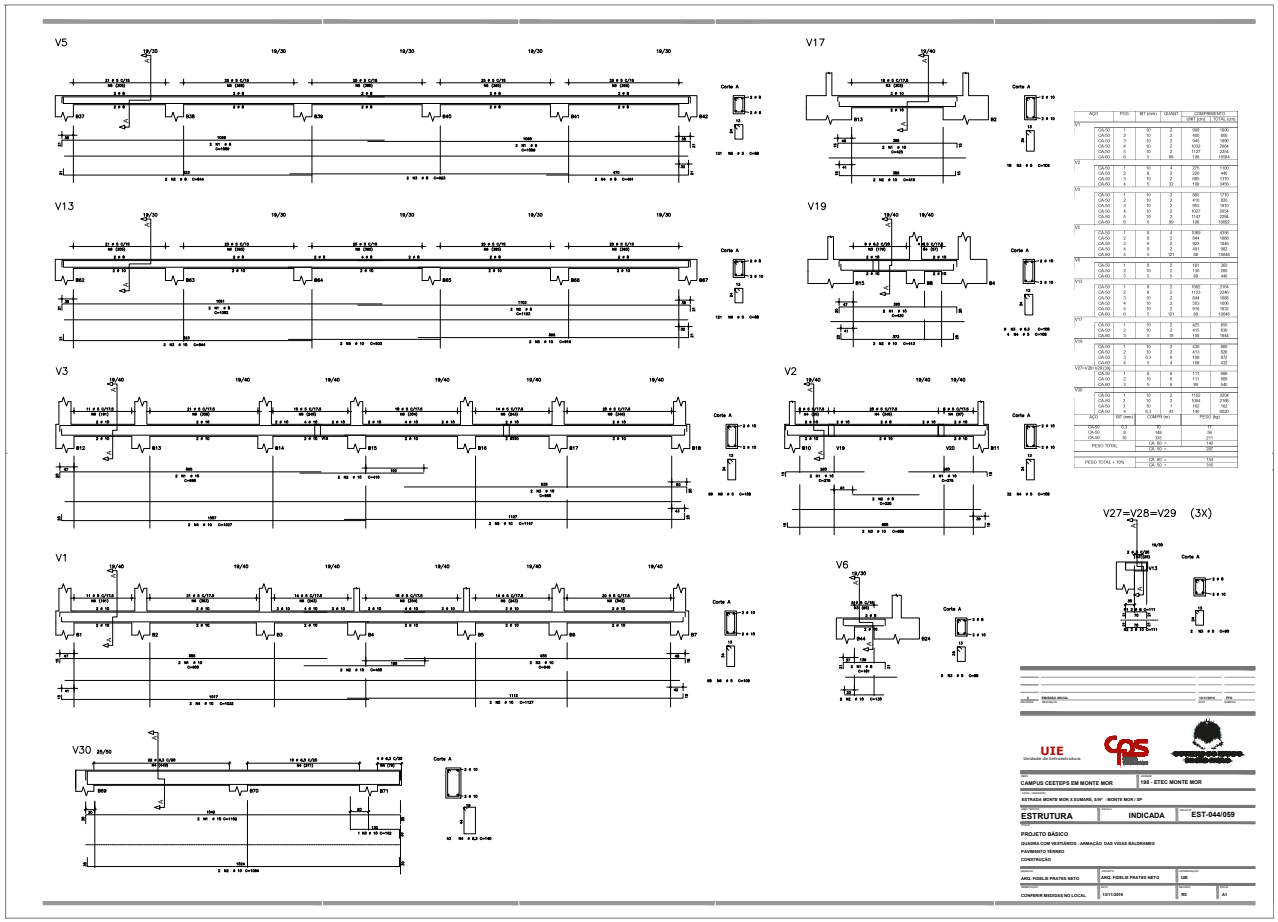

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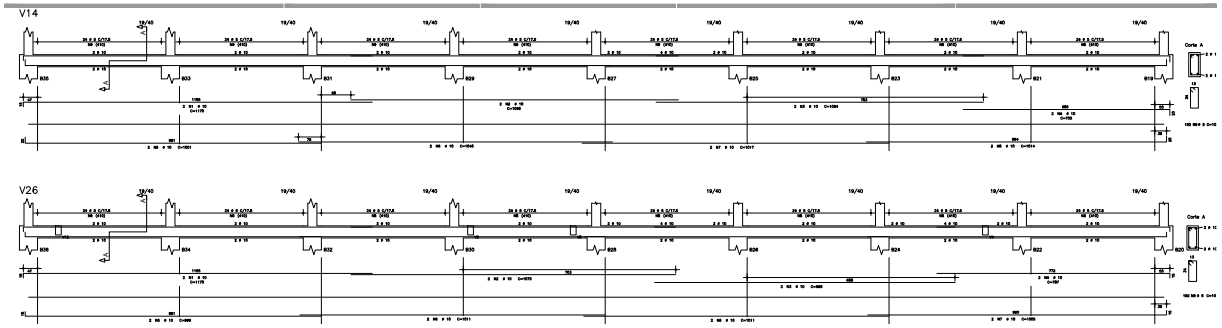

AÇO	FCB	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V14					
CA-50	1	10	2	1170	2340
CA-50	2	10	2	1085	2170
CA-50	3	10	2	1264	2528
CA-50	4	10	2	705	1410
CA-50	5	10	2	1001	2002
CA-50	6	10	2	1040	2080
CA-50	7	10	2	1017	2034
CA-50	8	10	2	1014	2028
CA-60	9	5	192	156	29759
V18					
CA-50	1	8	2	1110	2220
CA-50	2	8	2	1083	2166
CA-50	3	8	2	1088	2176
CA-50	4	10	2	402	804
CA-50	5	10	4	939	3752
CA-50	6	10	2	654	1968
CA-60	7	5	192	86	16515
V22					
CA-50	1	8	2	1159	2318
CA-50	2	8	2	889	1778
CA-50	3	8	2	1150	2300
CA-50	4	10	2	407	814
CA-50	5	10	2	863	1906
CA-50	6	10	2	943	1886
CA-50	7	10	2	839	1678
CA-60	8	5	192	86	16515
V26					
CA-50	1	10	2	1170	2340
CA-50	2	10	2	1075	2150
CA-50	3	10	2	995	1990
CA-50	4	10	2	787	1574
CA-50	5	10	2	996	1992
CA-50	6	10	4	1011	4044
CA-50	7	10	2	1005	2010
CA-60	8	5	192	105	20159

AÇO	BIT (mm)	COMPR (m)	PESO (kg)
CA-60	5	156	118
CA-60	6	131	53
CA-50	10	498	307
PESO TOTAL	CA 50 =		178
	CA 60 =		342
PESO TOTAL + 10%	CA 50 =		196
	CA 60 =		374

REVISÃO	DESCRIÇÃO	DATA	VISTO
00	EMISSÃO INICIAL		

UIE
Unidade de Infraestrutura

CAMPUS CEETEPS EM MONTE MOR — 156 - ETEC MONTE MOR

ESTRADA MONTE MOR X SUMARÉ, S/N° - MONTE MOR / SP

ESTRUTURA — INDICADA — EST-045/059

PROJETO BÁSICO

QUADRA COM VESTIÁRIOS - ARMAÇÃO DAS VIGAS BALDRAMES

PAVIMENTO TÉRREO

CONSTRUÇÃO

ARQ. FIDELIS PRATES NETO	ARQ. FIDELIS PRATES NETO	008
CONFERIR MEDIDAS NO LOCAL	13/11/2019	R0 — A1

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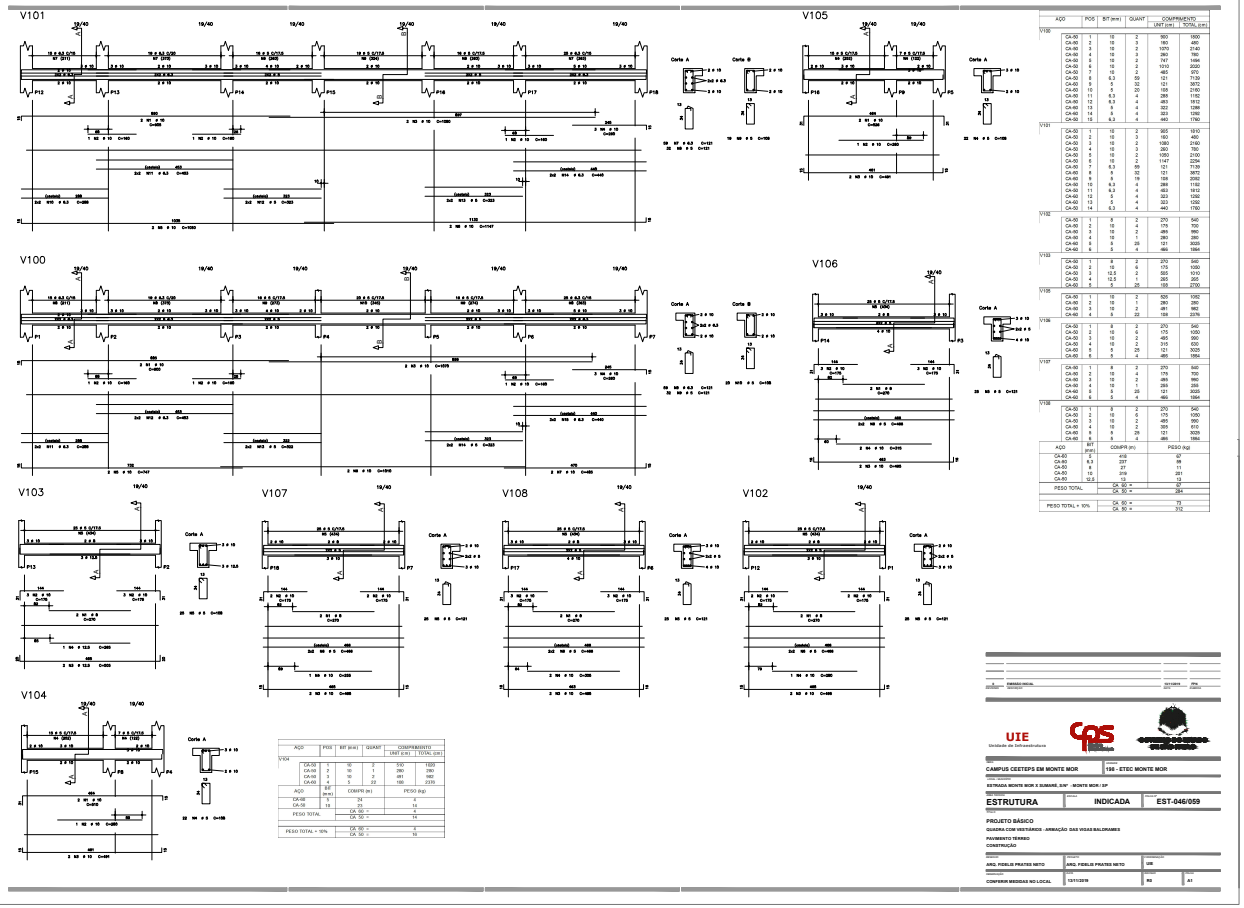

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V102					
CA-60	1	10	2	990	1920
CA-60	2	10	3	160	480
CA-60	3	10	2	1070	2140
CA-60	4	10	3	260	780
CA-60	5	10	2	1050	2100
CA-60	6	10	2	1010	2020
CA-60	7	10	2	485	970
CA-60	8	6.3	59	121	7139
CA-60	9	5	32	121	3872
CA-60	10	5	20	168	2160
CA-60	11	6.3	4	288	1152
CA-60	12	5	4	323	1292
CA-60	13	5	4	322	1288
CA-60	14	5	4	323	1292
CA-60	15	6.3	4	440	1760
V101					
CA-60	1	10	2	955	1910
CA-60	2	10	2	160	480
CA-60	3	10	2	1080	2160
CA-60	4	10	3	260	780
CA-60	5	10	2	1050	2100
CA-60	6	10	2	1147	2294
CA-60	7	6.3	59	121	7139
CA-60	8	5	32	121	3872
CA-60	9	5	20	168	2160
CA-60	10	6.3	4	288	1152
CA-60	11	6.3	4	453	1812
CA-60	12	5	4	323	1292
CA-60	13	5	4	323	1292
CA-60	14	6.3	4	440	1760
V106					
CA-60	1	8	2	270	540
CA-60	2	10	4	175	700
CA-60	3	10	2	495	990
CA-60	4	10	1	280	280
CA-60	5	25	28	121	3025
CA-60	6	5	4	466	1864
V103					
CA-60	1	8	2	270	540
CA-60	2	10	4	175	700
CA-60	3	10	2	495	990
CA-60	4	10	2	315	630
CA-60	5	25	28	121	3025
CA-60	6	5	4	466	1864
V107					
CA-60	1	8	2	270	540
CA-60	2	10	4	175	700
CA-60	3	10	2	495	990
CA-60	4	10	1	280	280
CA-60	5	25	28	121	3025
CA-60	6	5	4	466	1864
V108					
CA-60	1	8	2	270	540
CA-60	2	10	4	175	1050
CA-60	3	10	2	495	990
CA-60	4	10	2	305	610
CA-60	5	25	28	121	3025
CA-60	6	5	4	466	1864

AÇO	BIT (mm)	COMPR (m)	PESO (kg)
CA-60	5	416	67
CA-60	6.3	237	58
CA-60	8	27	11
CA-60	10	219	203
CA-60	12.5	26	25
PESO TOTAL		CA_60 =	67
		CA_50 =	264
PESO TOTAL + 10%		CA_60 =	73
		CA_50 =	312

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V104					
CA-60	1	10	2	370	1920
CA-60	2	10	1	280	280
CA-60	3	10	2	991	1982
CA-60	4	5	22	168	2376
AÇO	BIT (mm)	COMPR (m)	PESO (kg)		
CA-60	5	24	4		
CA-50	16	23	14		
PESO TOTAL		CA_60 =	4		
		CA_50 =	14		
PESO TOTAL + 10%		CA_60 =	4		
		CA_50 =	15		

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