

P1=P3=P6=P12=P14=P17

P2=P13

P4=P5=P15=P16

P7=P18

P8=P9

**P19=P20=P21=P22=P23=P24=P25=P26=P27
P28=P29=P30=P31=P32=P33=P34=P35=P36
P69=P70=P71**

ACQ	POS	BT (mm)	QUANT	COMPRIMENTO	
				UNT (cm)	TOTAL (m)
QU-FR3					
CA-00	1	10	12	360	4320
CA-00	2	10	4	107	1348
CA-00	3	10	16	100	1600
CA-00	4	5	86	106	10176
CA-00	5	5	109	26	4198
CA-00	6	10	12	212	2544
QU-FR4					
CA-00	1	10	24	360	4320
CA-00	2	10	24	100	2400
CA-00	3	5	102	106	20702
CA-00	4	5	102	26	4952
CA-00	5	10	24	143	2432
CA-00	6	10	24	112	2688
CA-00	7	5	12	55	1116
QU-FR5					
CA-00	1	10	36	360	12960
CA-00	2	10	36	100	3600
CA-00	3	5	280	106	30020
CA-00	4	5	280	26	7480
CA-00	5	10	36	212	7920
QU-FR6					
CA-00	1	10	16	360	6240
CA-00	2	10	16	110	1760
CA-00	3	5	86	106	10208
CA-00	4	5	86	26	2286
CA-00	5	10	16	212	3312
QU-FR7					
CA-00	1	10	12	360	4320
CA-00	2	10	12	100	1200
CA-00	3	5	76	106	8208
CA-00	4	5	76	26	2028
CA-00	5	10	12	87	1154
CA-00	6	5	6	83	558
QU-FR8					
CA-00	1	12,5	64	37	3104
CA-00	2	12,5	160	110	11500
CA-00	3	6,3	103	111	11629
CA-00	4	5	62	54	4282
ACQ					
CA-00	5	1000		175	175000
CA-00	6,3	117		26	26000
CA-00	10	707		445	445000
CA-00	12,5	147		147	147000
PESO TOTAL					
				CA-00	621
				CA-00	185
PESO TOTAL + 10%				CA-00	806



CEETPSCAP2022632677A



VA1/VA8/VA9
VA20/VA21/VA24

VA10/VA19

VA34/VA37/VA40/VA43
VA46/VA49/VA52/VA55
VA58/VA61/VA64/VA67

VA22/VA23

VA25/VA28

VA11/VA18

VA33/VA36/VA39/VA42
VA45/VA48/VA51/VA54
VA57/VA60/VA63/VA66

VA26/VA27

VA3/VA6

VA29/VA32/VA35/VA38
VA41/VA44/VA47/VA50
VA53/VA56/VA59/VA62
VA65/VA68

VA4/VA5

VA12/VA17

VA30/VA69

VA14/VA15

VA13/VA16

VA31/VA70

UNID.	QUANT.	VALOR UNIT.	VALOR TOTAL
VA1/VA8/VA9	1	100	100
VA10/VA19	1	100	100
VA22/VA23	1	100	100
VA25/VA28	1	100	100
VA33/VA36/VA39/VA42	1	100	100
VA34/VA37/VA40/VA43	1	100	100
VA46/VA49/VA52/VA55	1	100	100
VA58/VA61/VA64/VA67	1	100	100
VA26/VA27	1	100	100
VA3/VA6	1	100	100
VA29/VA32/VA35/VA38	1	100	100
VA41/VA44/VA47/VA50	1	100	100
VA53/VA56/VA59/VA62	1	100	100
VA65/VA68	1	100	100
VA4/VA5	1	100	100
VA12/VA17	1	100	100
VA30/VA69	1	100	100
VA14/VA15	1	100	100
VA13/VA16	1	100	100
VA31/VA70	1	100	100

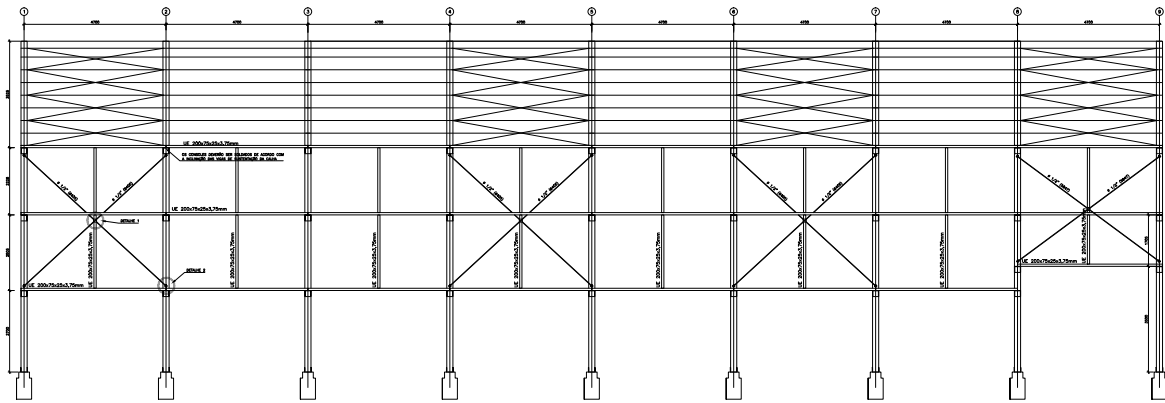


SUPERIOR – Armadura negativa horizontal

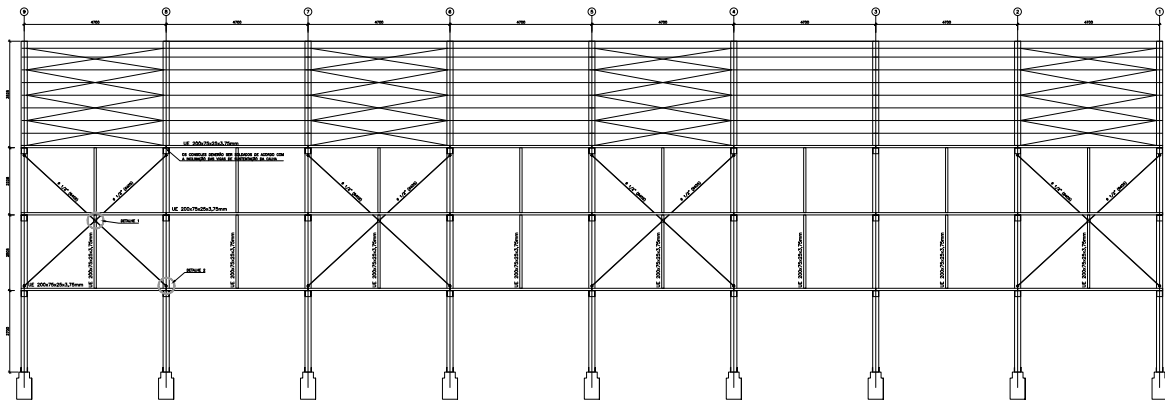
SUPERIOR – Armadura negativa vertical

SUPERIOR – Armadura positiva

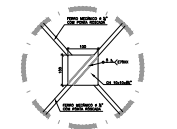
ADQ	PROJ	REV	EM	QUANT	COMPLEMENTO
SUPERIOR – ARMADURA NEGATIVA HORIZONTAL					
CA-08	1	1	1	1	1000
CA-08	2	1	1	1	1000
CA-08	3	1	1	1	1000
CA-08	4	1	1	1	1000
CA-08	5	1	1	1	1000
CA-08	6	1	1	1	1000
CA-08	7	1	1	1	1000
CA-08	8	1	1	1	1000
CA-08	9	1	1	1	1000
CA-08	10	1	1	1	1000
CA-08	11	1	1	1	1000
CA-08	12	1	1	1	1000
CA-08	13	1	1	1	1000
CA-08	14	1	1	1	1000
CA-08	15	1	1	1	1000
CA-08	16	1	1	1	1000
CA-08	17	1	1	1	1000
CA-08	18	1	1	1	1000
CA-08	19	1	1	1	1000
CA-08	20	1	1	1	1000
CA-08	21	1	1	1	1000
CA-08	22	1	1	1	1000
CA-08	23	1	1	1	1000
CA-08	24	1	1	1	1000
CA-08	25	1	1	1	1000
CA-08	26	1	1	1	1000
CA-08	27	1	1	1	1000
CA-08	28	1	1	1	1000
CA-08	29	1	1	1	1000
CA-08	30	1	1	1	1000
CA-08	31	1	1	1	1000
CA-08	32	1	1	1	1000
CA-08	33	1	1	1	1000
CA-08	34	1	1	1	1000
CA-08	35	1	1	1	1000
CA-08	36	1	1	1	1000
CA-08	37	1	1	1	1000
CA-08	38	1	1	1	1000
CA-08	39	1	1	1	1000
CA-08	40	1	1	1	1000
CA-08	41	1	1	1	1000
CA-08	42	1	1	1	1000
CA-08	43	1	1	1	1000
CA-08	44	1	1	1	1000
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CA-08	66	1	1	1	1000
CA-08	67	1	1	1	1000
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CA-08	92	1	1	1	1000
CA-08	93	1	1	1	1000
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CA-08	113	1	1	1	1000
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CA-08	115	1	1	1	1000
CA-08	116	1	1	1	1000
CA-08	117	1	1	1	1000
CA-08	118	1	1	1	1000
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CA-08	124	1	1	1	1000
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CA-08	129	1	1	1	1000
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CA-08	136	1	1	1	1000
CA-08	137	1	1	1	1000
CA-08	138	1	1	1	1000
CA-08	139	1	1	1	1000
CA-08	140	1	1	1	1000
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CA-08	188	1	1	1	1000
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CA-08	196	1	1	1	1000
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CA-08	201	1	1	1	1000
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CA-08	206	1	1	1	1000
CA-08	207	1	1	1	1000
CA-08	208	1	1	1	1000
CA-08	209	1	1	1	1000
CA-08	210	1	1	1	1000
CA-08	211	1	1	1	1000
CA-08	212	1	1	1	1000
CA-08	213	1	1	1	1000
CA-08	214				



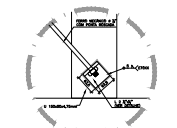
ELEVACÃO 1
ESTRUTURA METÁLICA DA COBERTURA DA QUADRA



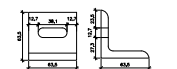
ELEVACÃO 5
ESTRUTURA METÁLICA DA COBERTURA DA QUADRA



DETALHE 1 - MONTAGEM



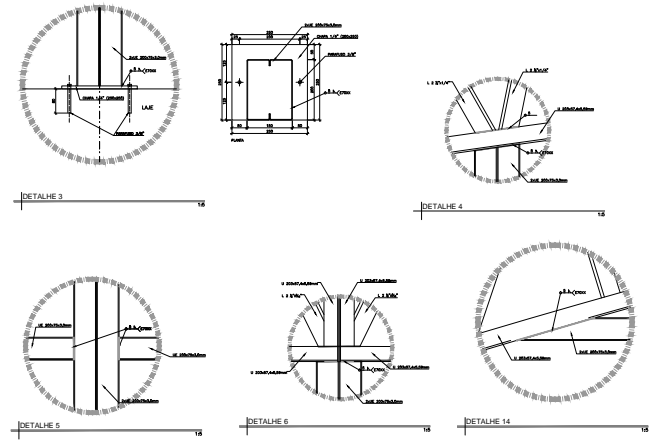
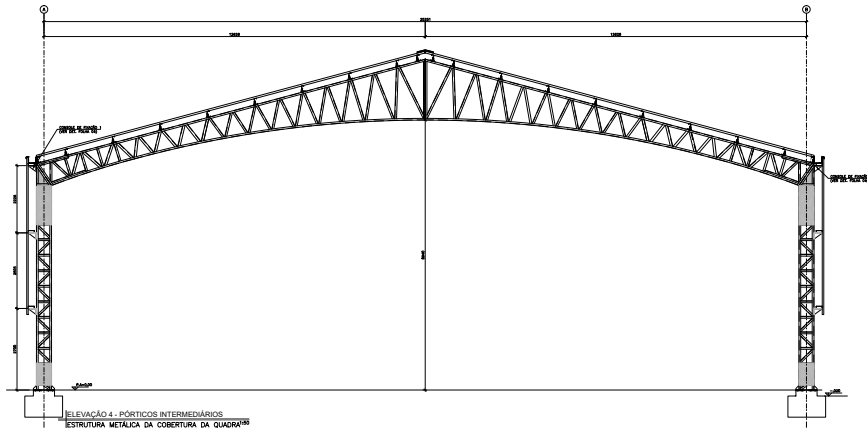
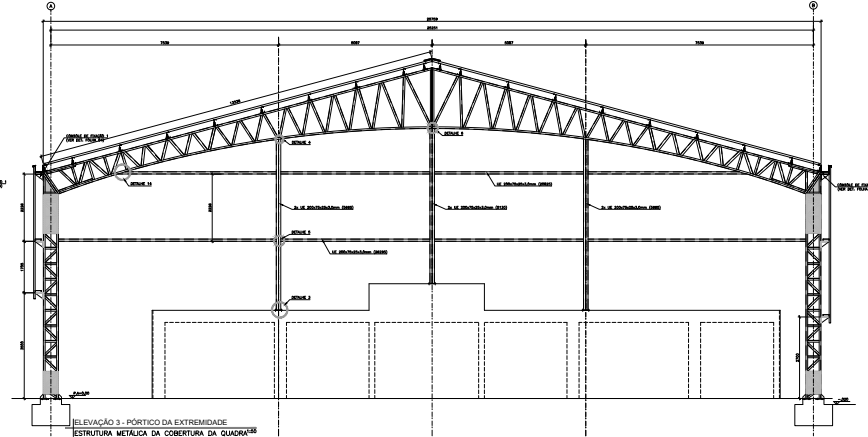
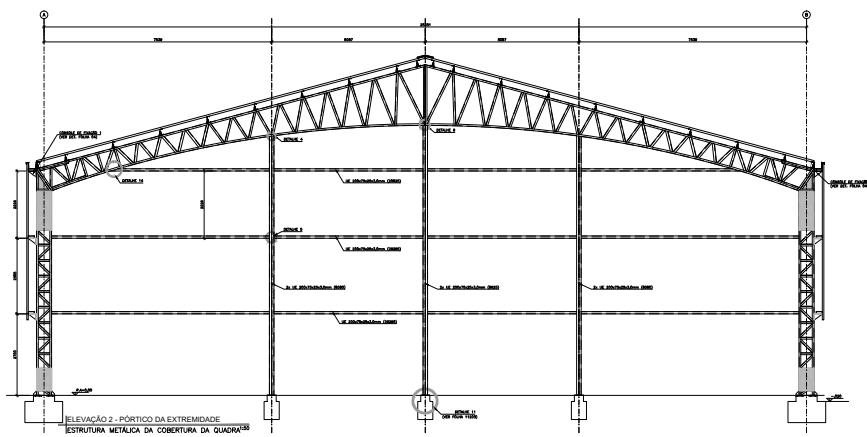
DETALHE 2



DETALHE - LIGAÇÃO DE CONTRAVENTAMENTO

CAMPUS CEETPS EM MONTE MOR	105 - ETIC MONTE MOR
ESTRUTURA METÁLICA DA COBERTURA DA QUADRA - QUADRA 01	
ESTRUTURA	INDICADA - EST-053/059
PROJETO BÁSICO BASEADO NOS DESENHOS ELEVACIONES 1 E 5 E DETALHES	

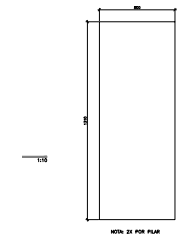
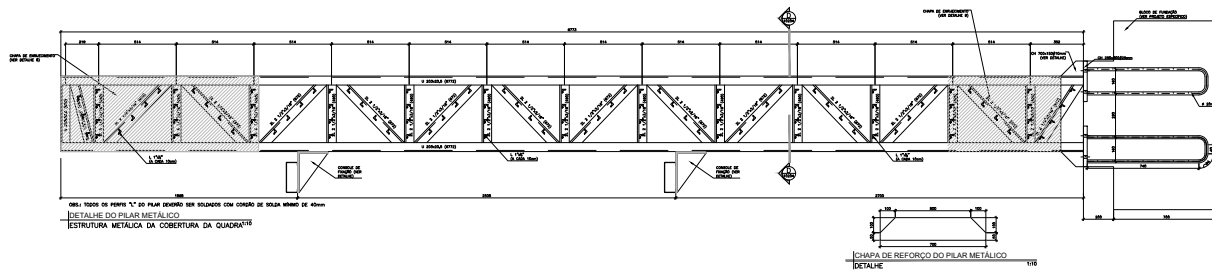




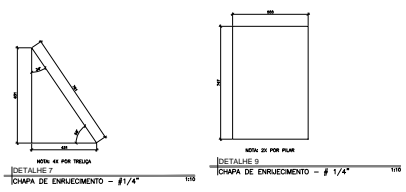
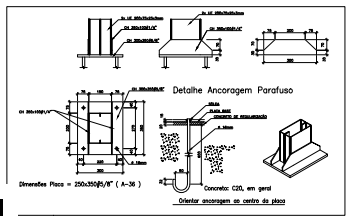
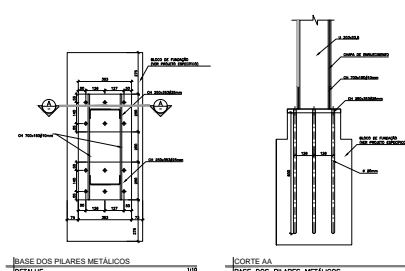
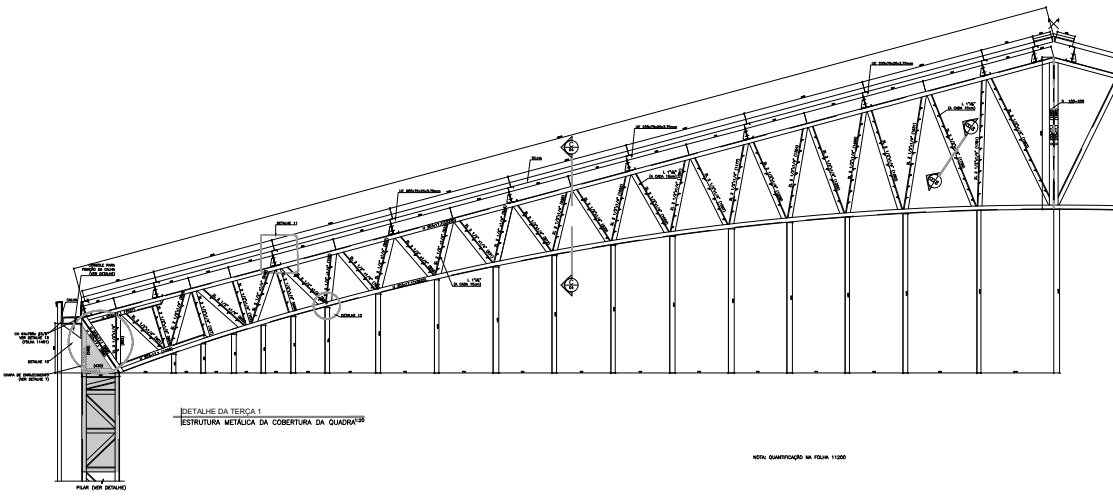
CAMPUS CEETPS EM MONTE MOR - 136 - ETIC MONTE MOR	
VESTÍBULO: AVENIDA SÃO CARLOS, 369 - MONTE MOR - SP	
ESTRUTURA	INDICADA - EST-054/059
PROJETO BÁSICO	
<small>REVISÃO COM SUPLEMENTO: ELEVACIONES 1, 2, 3 E 4 E DETALHES</small>	



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DETA LHE 8
 CHAPA DE ENR UEC IMEN TO - # 1/4"

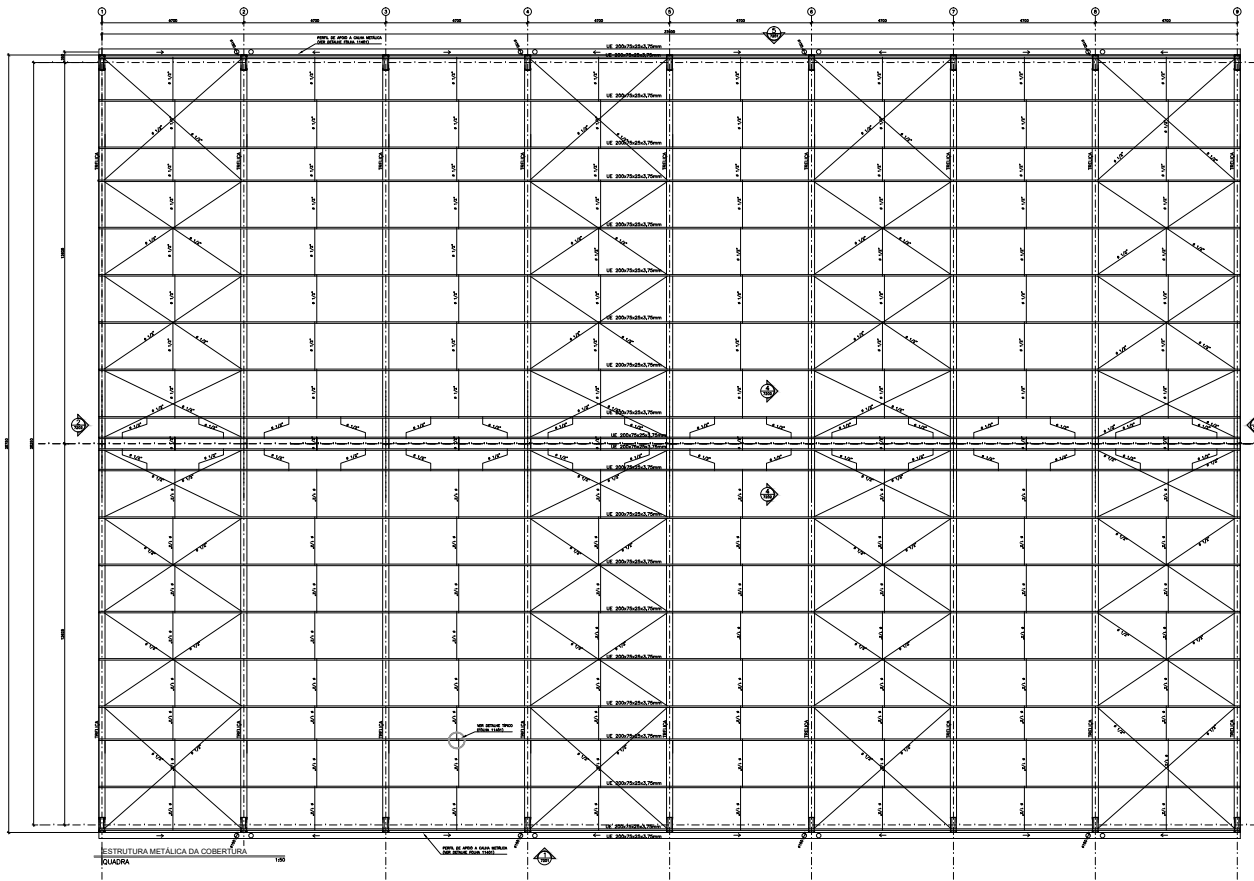


DETA LHE 11
 BASE DO FECHAMEN TO MET ALIC O

CAMPUS CEETEPS EM MONTE MOR	116 - ETIC MONTE MOR
PROJETO BÁSICO INDICADA - EST-055/09	



CEETEPSCAP2022632677A

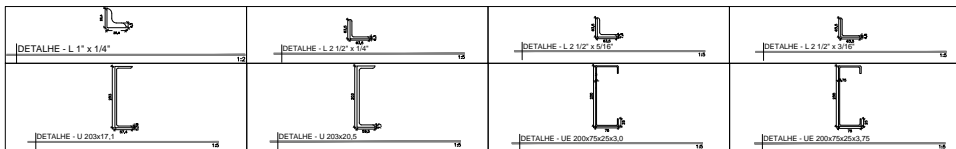


NOTAS

- 1- MEDIDAS EM mm, NÍVEIS EM m, SALVO INDICAÇÃO CONTRÁRIA.
- 2- MATERIAIS:
 CHAPAS E PERFS: ASTM-A36.
 FERRO REDONDO: SAE-1020.
 PARAFUSOS DE ALTA RESISTENCIA: ASTM-A325.
 SOLDAS: CONFORME AWS D1.1.
 ELETRODOS: AWS E70XX
 AÇO PARA PERFS EM CHAPA DOBRADA: ASTM A570
- 3- CORDÕES MÍNIMOS, SOLDAS DE CHANFROS E SOLDAS NÃO ESPECIFICADAS DEVERÃO SER EXECUTADAS DE ACORDO COM A NBR8800 OU AISC.
- 4- A INSPEÇÃO DEVERÁ CERTIFICAR A QUALIDADE DAS SOLDAS, EMPENAMENOS, BITOLAS DOS PERFS E QUALIDADE DE TODA A MATÉRIA PRIMA.
- 5- TRATAMENTO DE SUPERFÍCIE CONFORME PROJETO ARQUITETÔNICO
- 6- A FABRICAÇÃO E A MONTAGEM DEVERÃO ESTAR DE ACORDO COM AS NORMAS: ABNT, AISC, AWS e ASTM
- 7- CONFIRMAR E RATIFICAR TODAS AS MEDIDAS NA OBRA.
- 8- O PROJETO DE FABRICAÇÃO É DE RESPONSABILIDADE DO FORNECEDOR

LISTA DE MATERIAIS

MATERIAL	PESO (kg/m)	AREA (m²)	COMPRIMENTO (m)	QUANTIDADE (un)	TOTAL (kg)
L 2 1/2" x 1/4"	6,10		1284,12		7833,13
L 1" x 1/4"	1,50		880,02		1320,03
L 2 1/2" x 5/16"	7,44		45,54		338,82
L 2 1/2" x 3/16"	4,57		558,36		2561,71
U 203x17,1	17,10		575,28		9837,29
UE 200x75x25x3,75	11,14		1054,00		11741,56
U 203x20,5	20,50		270,90		5553,45
UE 200x75x25x3,0	9,02		153,43		1383,94
2 UE 200x75x25x3,0	18,05	0,00	26,100		471,105
CHAPA #25mm	196,00	3,18			623,28
CHAPA #10mm	74,48	3,42			254,72
CHAPA #1/4"	50,00	12,88			644,00
CHAPA #3/8"	75,00	1,00			75,00
CHAPA #5/8"	125,00	0,32			40,00
FERRO MEC Ø 1/2"	1,00		708,80		708,80
FERRO MEC Ø 16mm	1,55		9,69		15,02
FERRO MEC Ø 20mm	2,50		373,32		933,30
MISCELÂNEAS 5%					2216
TOTAL					46541
TOTAL+10%					51196

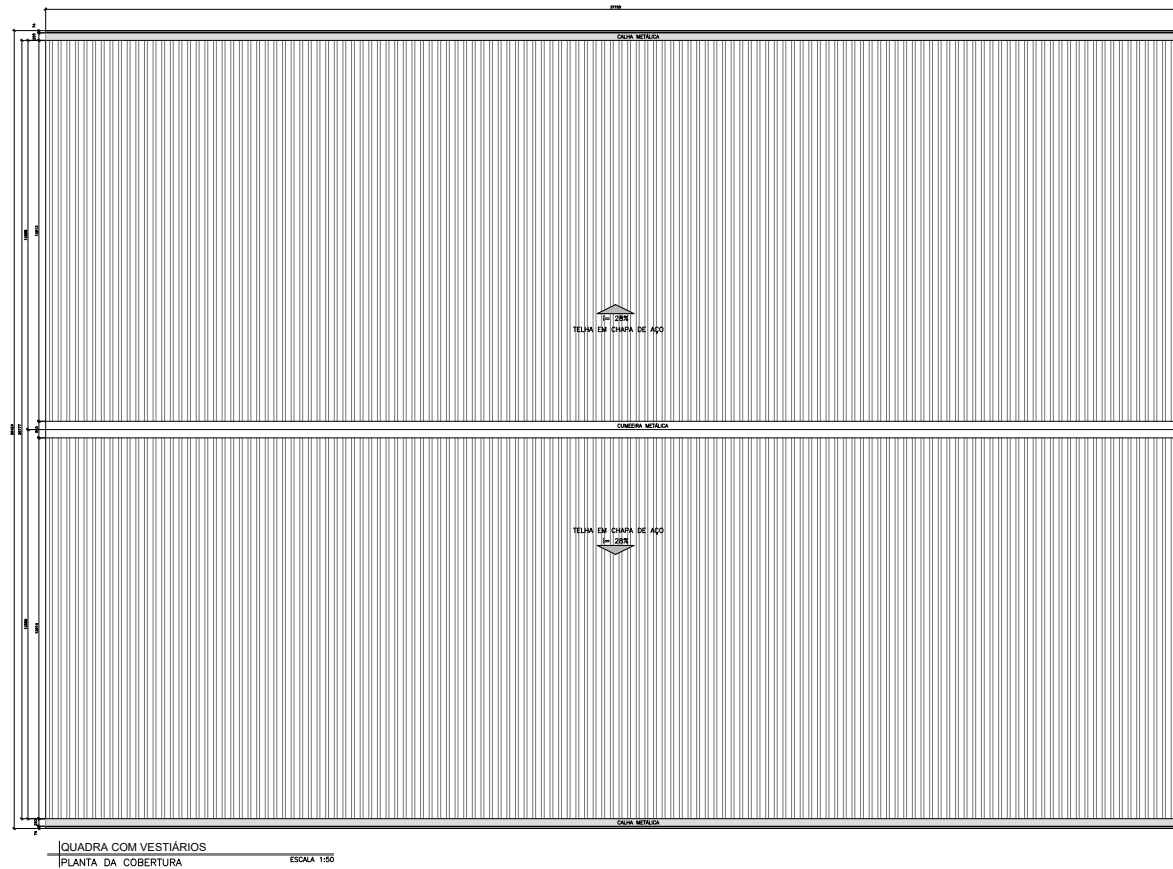


Logos for UTE (União das Empresas de Transportes Urbanos), CPS (Companhia de Saneamento de São Paulo), and other entities. Includes project information: PROJETO BÁSICO: PROJETO DE ESTRUTURA METÁLICA DA COBERTURA E DE PAVIMENTO.



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LISTA DE MATERIAIS					
MATERIAL	PESO (kg/m) (kg/m ²)	ESPESSURA (mm)	ÁREA (m ²)	TOTAL (kg)	TOTAL +10% (kg)
TELHA TRAPEZOIDAL GALVANIZADA	7,5	0,80	1007,17	7553,78	8309,16



CAMPUS CEETPS EM MONTE MOR 116 - ETIC MONTE MOR
 ESTÁDIO MONTES MORAIS - 13080-000 - MONTE MOR - SP

ESTRUTURA INDICADA MET-058/059

PROJETO BÁSICO
 QUADRA COM VESTIÁRIOS - PLANTA DA COBERTURA



QTD	POST	BT (MT)	QUANT	COMPRIMENTO	UNIT (MT)	TOTAL (MT)
BLOCO DO RESERVATÓRIO						
CA-01	1	10	30	440	39600	
CA-02	2	20	40	880	35200	
CA-03	3	10	40	880	35200	
CA-04	4	10	40	880	35200	
ACAO	BT	COMPR (MT)	RESQ (MT)			
CA-01	10	880	8800			
CA-02	14	384	5376			
CA-03	20	372	7440			
RESQ TOTAL	CA-01 +	CA-02 +	CA-03 +			
RESQ TOTAL + 20%	CA-01 +	CA-02 +	CA-03 +			

