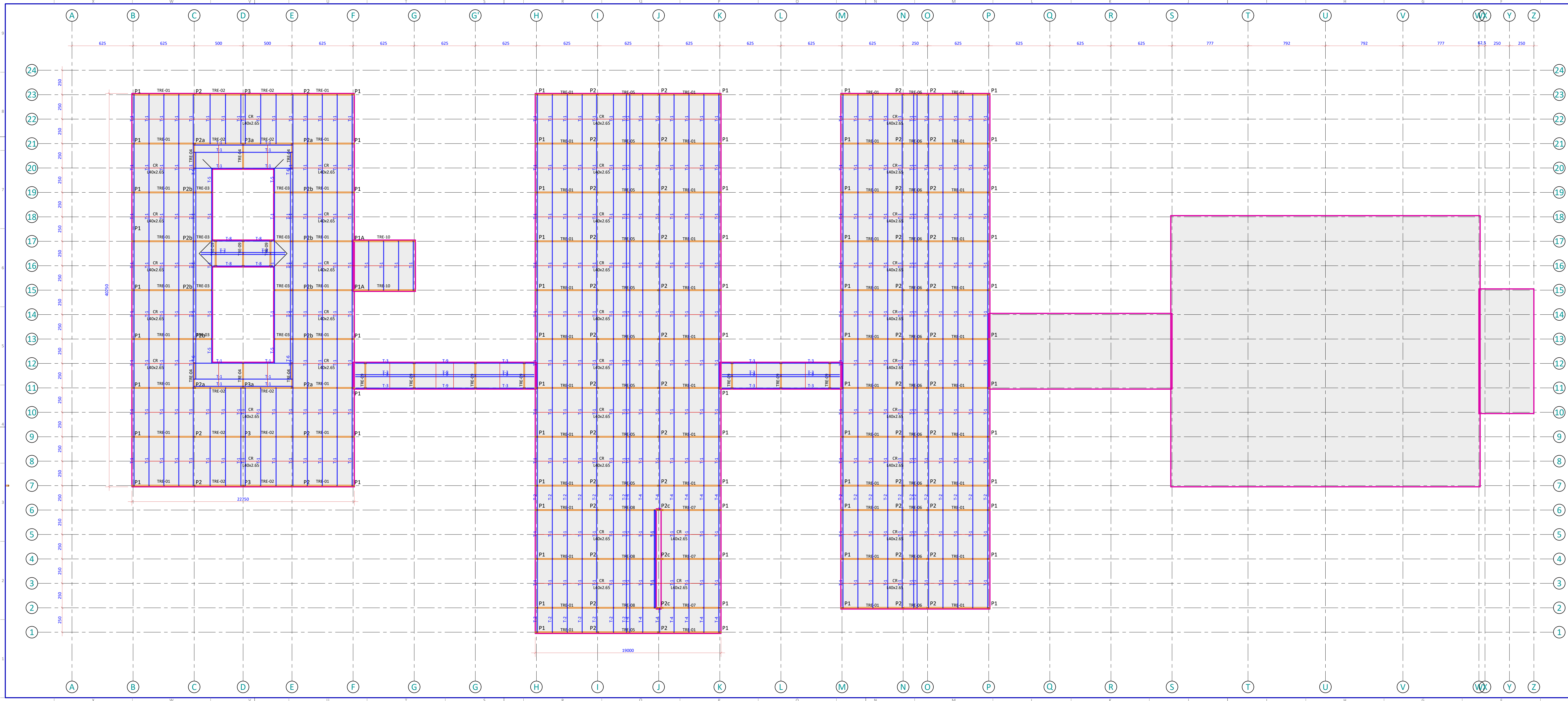
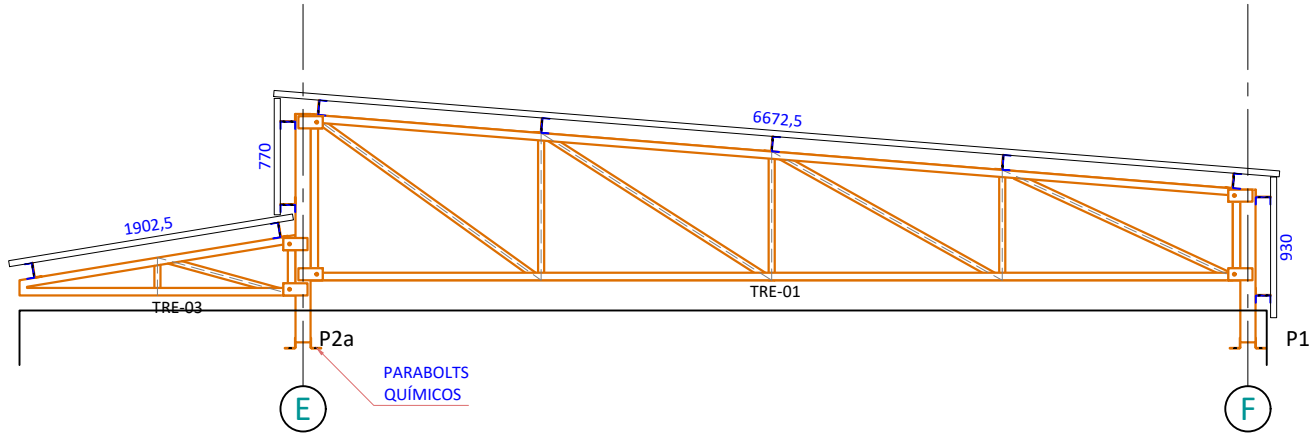
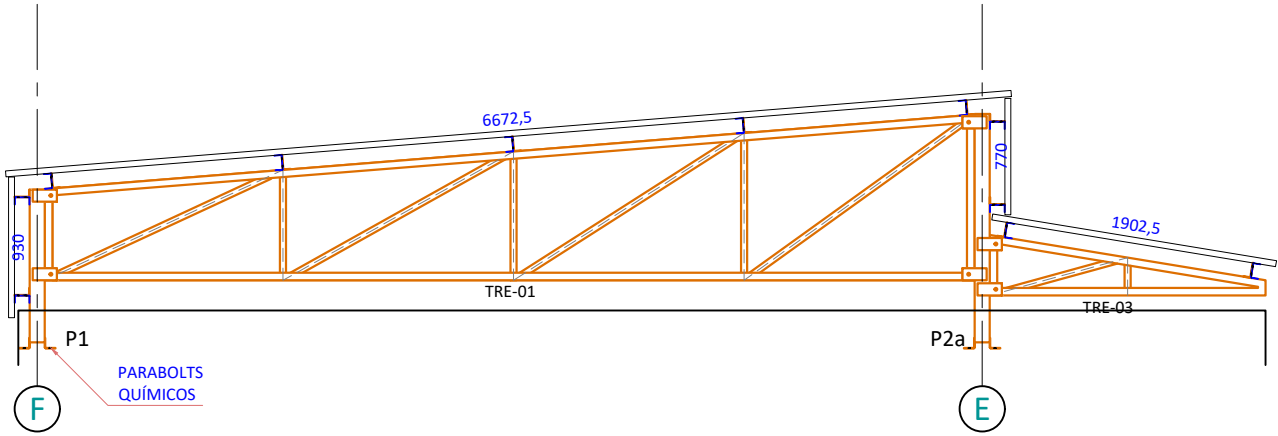




09/02/2023	SMED	EMISSÃO INICIAL	
DATA	SOLICITANTE	OBSERVAÇÕES	
CRONOLOGIA DAS ALTERAÇÕES			
		PREFEITURA MUNICIPAL DE NOVO HAMBURGO S.M.D.U. - SECRETARIA MUNICIPAL DE DESENVOLVIMENTO URBANO D.P.E. - DIRETORIA DE PROJETOS EXECUTIVOS	
PROJETO: ENG. ALEXANDRE BELTRÃO CREA/RS: 83.612		DIRETOR	
ESTR METÁLICA NOVA COBERTURA EM ARNALDO GRIN / FAVO DE MEL AV. MONTEVIDÉU, 902 - SANTO AFONSO, NOVO HAMBURGO, RS		ÁREA: 2889,28 m² CONTROLE: 01.50.10	
VISTA SUPERIOR DA COBERTURA		01	
TODOS OS DIREITOS RESERVADOS - PROIBIDA A REPRODUÇÃO PARCIAL OU TOTAL			

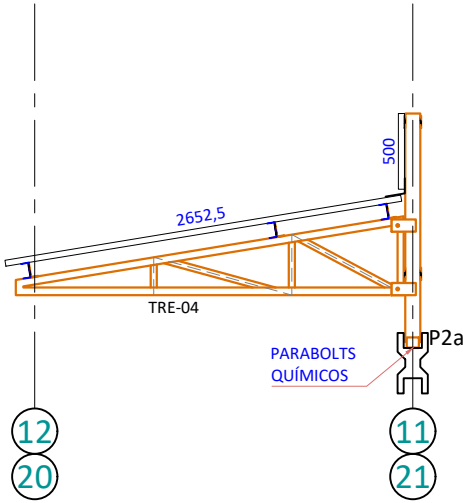
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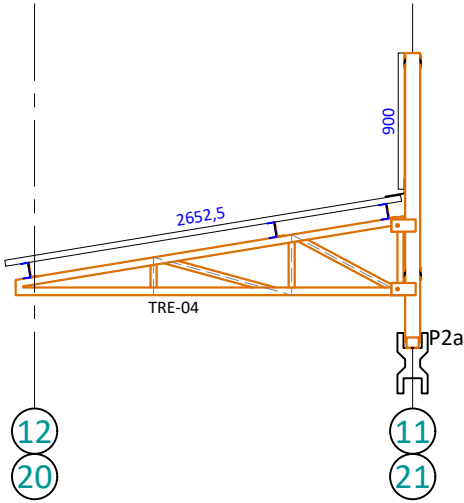
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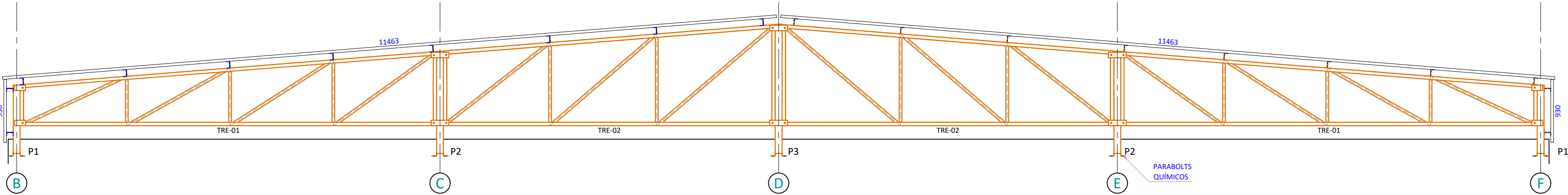
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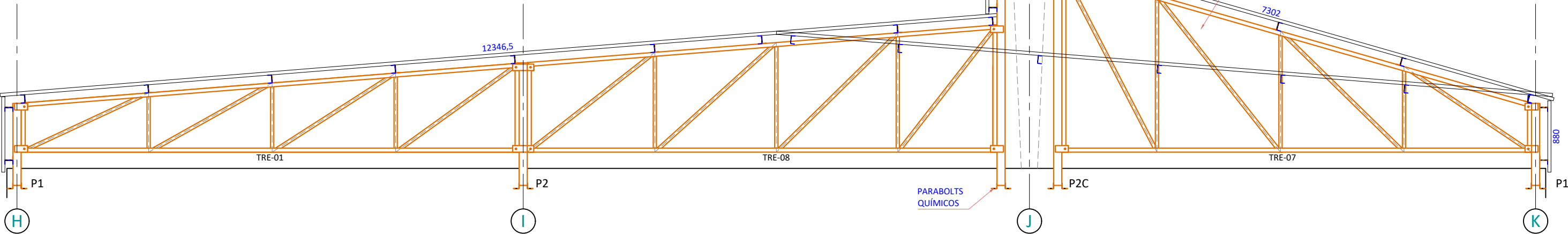
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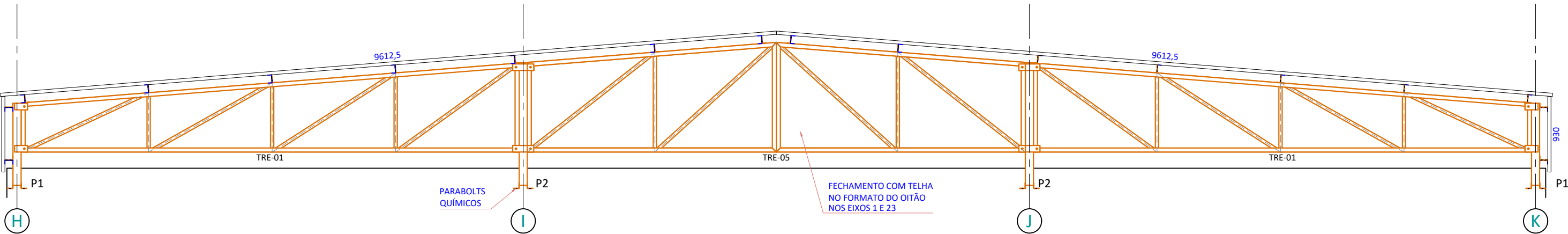
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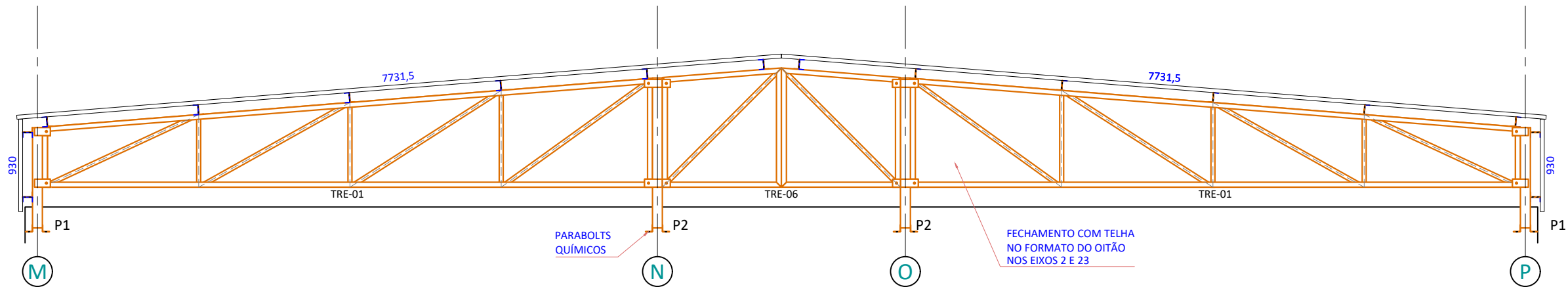
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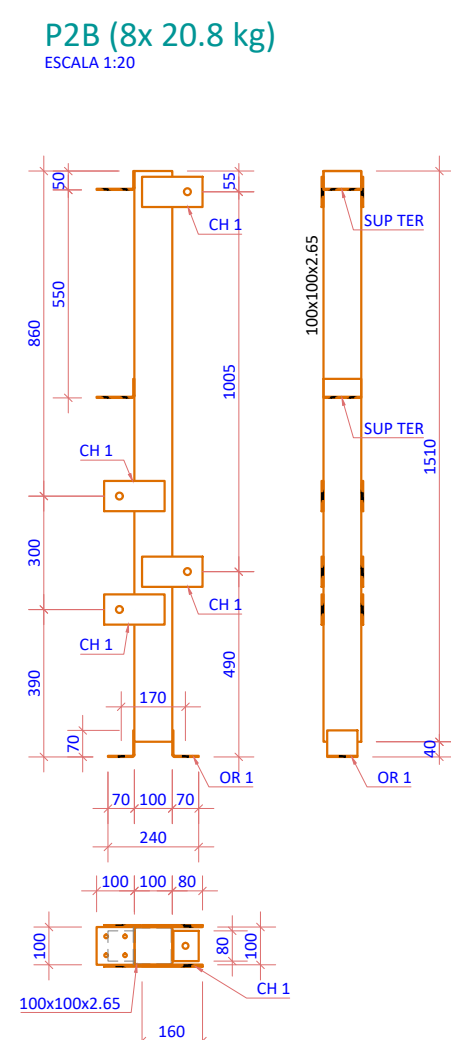
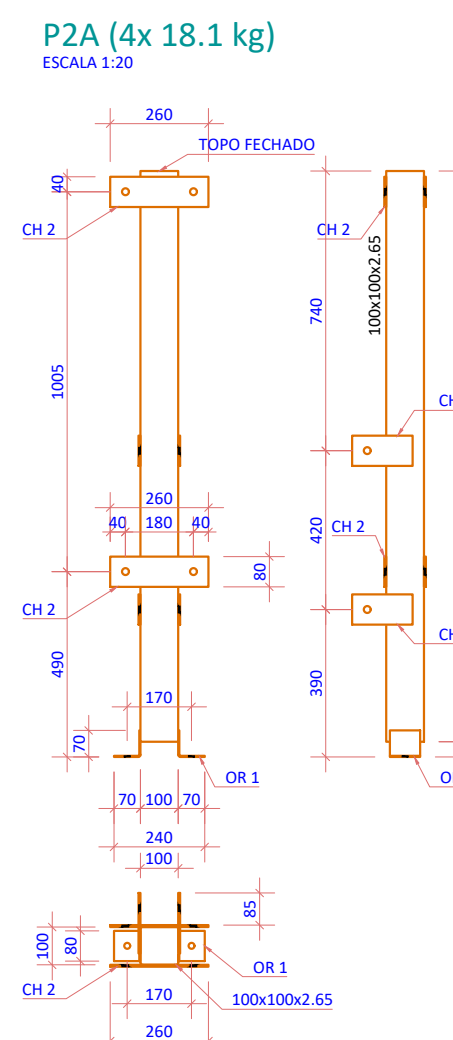
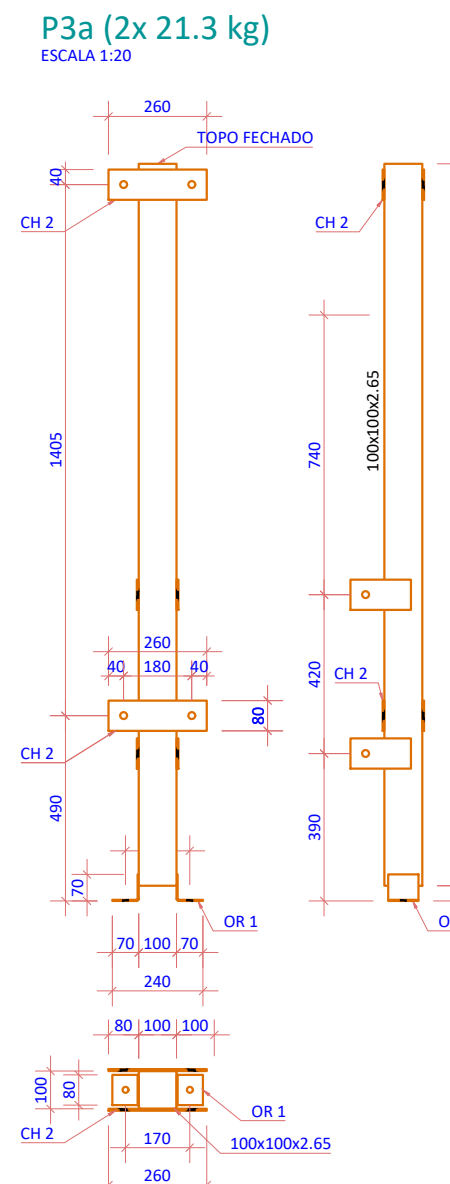
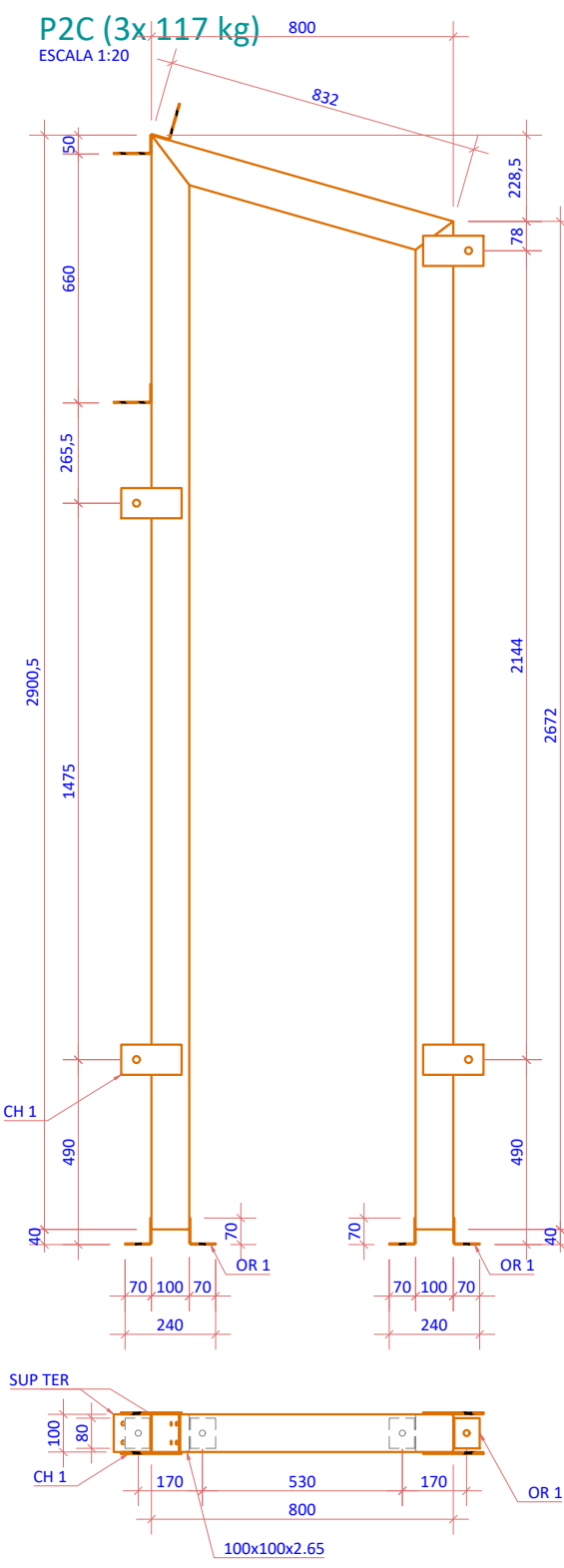
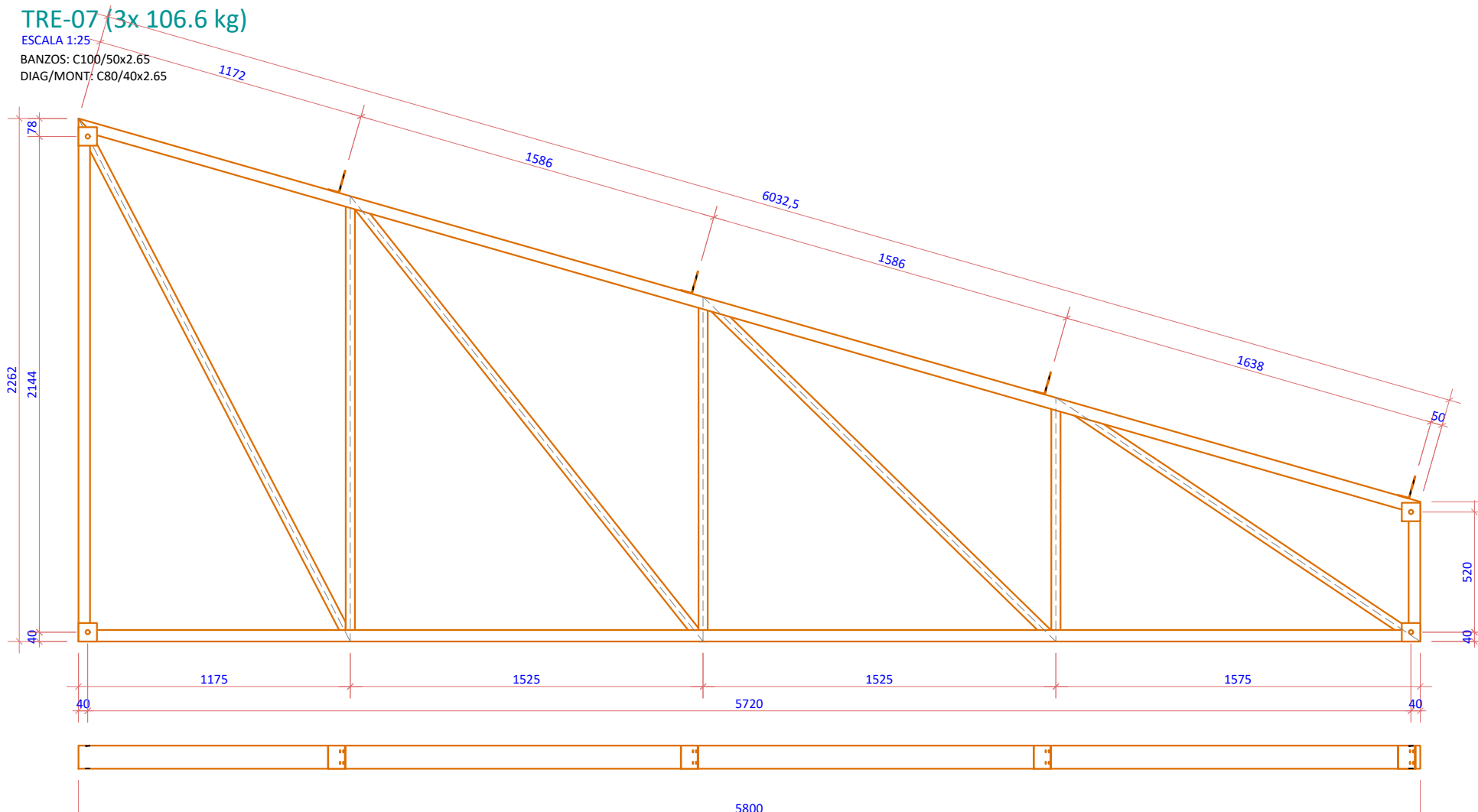
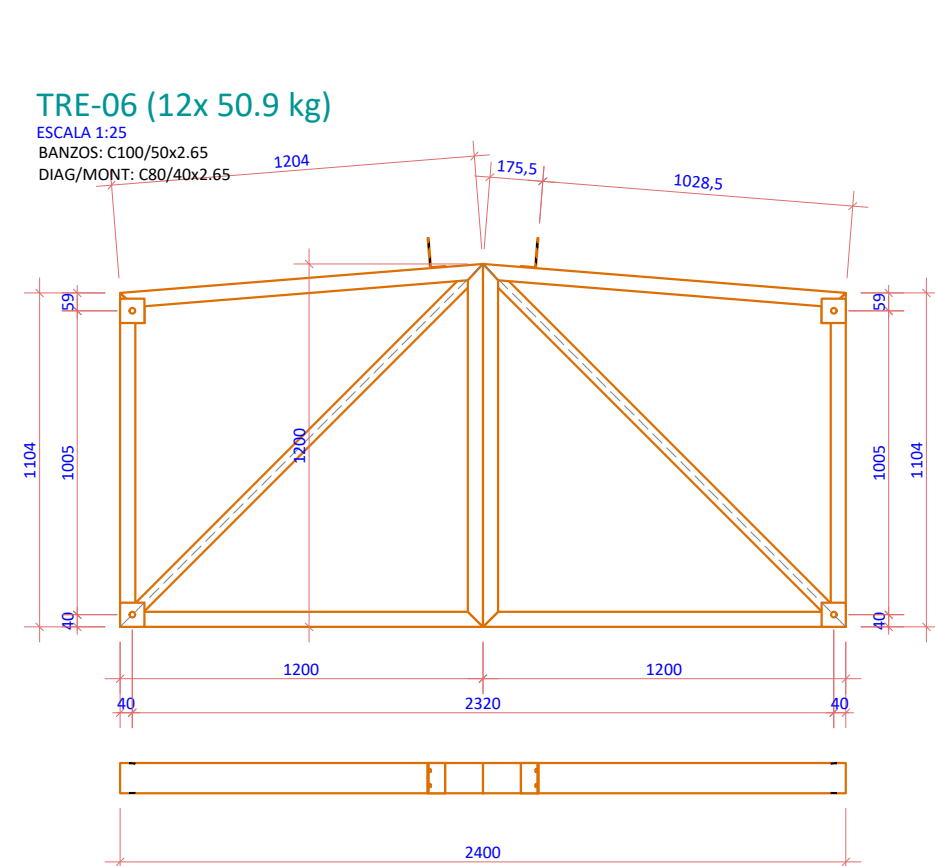
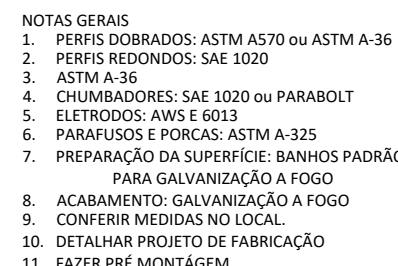
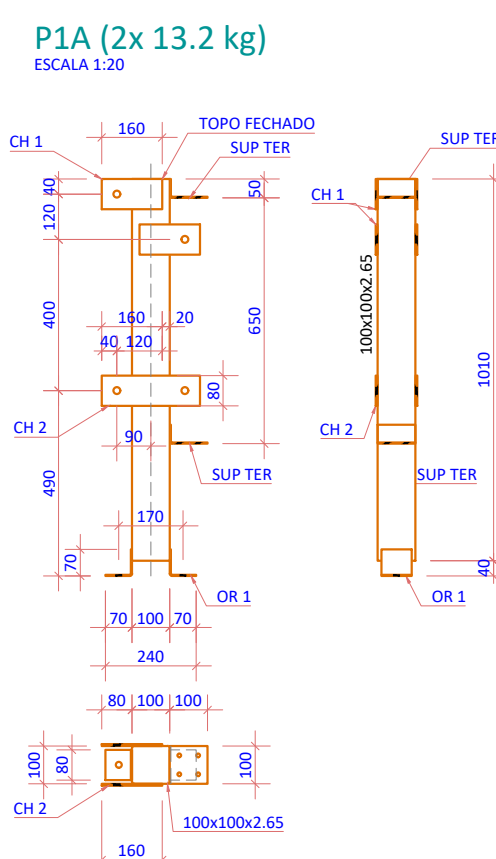
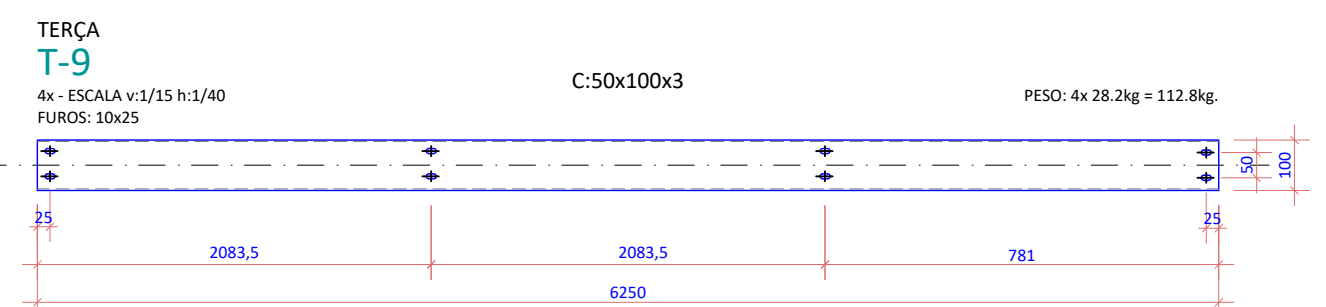


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ESCALA 1:50



09/02/2023	SMED	EMIÇÃO INICIAL
DATA	SOLICITANTE	OBSERVAÇÕES
CRONOLOGIA DAS ALTERAÇÕES		
	PREFEITURA MUNICIPAL DE NOVO HAMBURGO S.M.D.U. - SECRETARIA MUNICIPAL DE DESENVOLVIMENTO URBANO D.P.E. - DIRETORIA DE PROJETOS EXECUTIVOS	
	PROJETO: ENG. ALEXANDRE BELTRÃO CREA/RS: 93.612	DIRETOR
PROJETO PRANCHA	ESTR METÁLICA NOVA COBERTURA EM ARNALDO GRIN / FAVO DE MEL AV. MONTEVIDÉU, 902 - SANTO AFONSO, NOVO HAMBURGO, RS	
	ÁREA: 2889,28 m² CONTOLE: 01.50.10	
ELEVÇÕES		02
ESCALA(s):	INDICADA	
DATA:	09/02/2023	VERSÃO: 01
DESENHISTA:	BELO	
TODOS OS DIREITOS RESERVADOS - PROIBIDA A REPRODUÇÃO PARCIAL OU TOTAL		



P.esp. Aço= 8.000,00

QUANT	GRUPO	Q	ELEMENTO	TIPO	DIMENSÕES					PESOS		
					H	B	E1(mm)	E2(mm)	L ou A (cm)	UNIT.(kgf m)	ELEM.	TOTAL
65	TRE-01	1	BANZO	C	100	50	2,65		1.402,0	4,02	56,29	3.659,12
65	TRE-01	1	DIAG/MONT	C	80	40	2,65		972,0	3,17	30,79	2.001,09
65	TRE-01	5	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,80	117,00
65	TRE-01	8	CHAPA	CHAPA			4,76		64,0	38,10	1,95	126,80
10	TRE-02	1	BANZO	C	100	50	2,65		1.242,0	4,02	49,87	498,70
10	TRE-02	1	DIAG/MONT	C	80	40	2,65		896,0	3,17	28,38	283,79
10	TRE-02	3	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,08	10,80
10	TRE-02	8	CHAPA	CHAPA			4,76		64,0	38,10	1,95	19,51
8	TRE-03	1	BANZO	C	100	50	2,65		417,0	4,02	16,74	133,95
8	TRE-03	1	DIAG/MONT	C	80	40	2,65		119,0	3,17	3,77	30,15
8	TRE-03	2	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	0,72	5,76
8	TRE-03	4	CHAPA	CHAPA			4,76		64,0	38,10	0,98	7,80
6	TRE-04	1	BANZO	C	100	50	2,65		1.048,0	4,02	42,08	252,48
6	TRE-04	1	DIAG/MONT	C	80	40	2,65		119,0	3,17	3,77	22,61
6	TRE-04	3	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,08	6,48
6	TRE-04	4	CHAPA	CHAPA			4,76		64,0	38,10	0,98	5,85
10	TRE-05	1	BANZO	C	100	50	2,65		1.722,8	4,02	69,18	691,75
10	TRE-05	1	DIAG/MONT	C	80	40	2,65		1.050,0	3,17	33,26	332,56
10	TRE-05	4	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,44	14,40
10	TRE-05	8	CHAPA	CHAPA			4,76		64,0	38,10	1,95	19,51
12	TRE-06	1	BANZO	C	100	50	2,65		941,6	4,02	37,81	453,69
12	TRE-06	1	DIAG/MONT	C	80	40	2,65		328,0	3,17	10,39	124,66
12	TRE-06	2	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	0,72	8,64
12	TRE-06	8	CHAPA	CHAPA			4,76		64,0	38,10	1,95	23,41
3	TRE-07	1	BANZO	C	100	50	2,65		1.470,6	4,02	59,05	177,15
3	TRE-07	1	DIAG/MONT	C	80	40	2,65		1.350,0	3,17	42,76	128,27
3	TRE-07	8	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	2,88	8,64
3	TRE-07	8	CHAPA	CHAPA			4,76		64,0	38,10	1,95	5,85
3	TRE-08	1	BANZO	C	100	50	2,65		1.429,2	4,02	57,39	172,16
3	TRE-08	1	DIAG/MONT	C	80	40	2,65		1.215,0	3,17	38,48	115,45
3	TRE-08	5	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,80	5,40
3	TRE-08	8	CHAPA	CHAPA			4,76		64,0	38,10	1,95	5,85
10	TRE-09	1	BANZO	C	100	50	2,65		573,8	4,02	23,04	230,40
10	TRE-09	1	DIAG/MONT	C	80	40	2,65		215,0	3,17	6,81	68,10
10	TRE-09	5	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,80	18,00
10	TRE-09	4	SUPORE	L	70	70	4,76		8,0	5,33	1,71	17,07
10	TRE-09	4	PILARETE	C	100	50	2,65		31,0	4,02	4,98	49,79
2	TRE-10	1	BANZO	C	100	50	2,65		1.299,5	4,02	52,18	104,36
2	TRE-10	1	DIAG/MONT	C	80	40	2,65		583,0	3,17	18,47	36,93
2	TRE-10	4	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	1,44	2,88
2	TRE-10	4	CHAPA	CHAPA			4,76		64,0	38,10	0,98	1,95
2	TRE-10	2	SUPORE	L	70	70	4,76		8,0	5,33	0,85	1,71
2	TRE-10	2	PILARETE	C	100	50	2,65		31,0	4,02	2,49	4,98
68	P1	2	CORPO	C	100	50	2,65		101,0	4,02	8,11	551,54
68	P1	2	SUPORE	L	70	70	4,76		8,0	5,33	0,85	58,03
68	P1	2	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	0,72	48,96
68	P1	4	CH1	CHAPA			4,76		128,0	38,10	1,95	132,65
2	P1a	2	CORPO	C	100	50	2,65		101,0	4,02	8,11	16,22
2	P1a	2	SUPORE	L	70	70	4,76		8,0	5,33	0,85	1,71
2	P1a	2	SUPORE TERÇA	L	50	100	3,00		10,0	3,60	0,72	1,44
2	P1a	4	CH1	CHAPA			4,76		128,0	38,10	1,95	3,90
2	P1a	2	CH2	CHAPA			4,76		208,0	38,10	1,58	3,17
53	P2	2	CORPO	C	100	50	2,65		151,0	4,02	12,13	642,69
53	P2	2	SUPORE	L	70	70	4,76		8,0	5,33	0,85	45,23
53	P2	4	CH2	CHAPA			4,76		208,0	38,10	3,17	168,01
4	P2a	2	CORPO	C	100	50	2,65		151,0	4,02	12,13	48,50

P.esp. Aço= 8.000,00

QUANT	GRUPO	Q	ELEMENTO	TIPO	DIMENSÕES					PESOS		
					H	B	E1(mm)	E2(mm)	L ou A (cm)	UNIT.(kgf m)	ELEM.	TOTAL
4	P2a	2	SUPORTE	L	70	70	4,76		8,0	5,33	0,85	3,41
4	P2a	4	CH2	CHAPA			4,76		208,0	38,10	3,17	12,68
4	P2a	4	CH1	CHAPA			4,76		128,0	38,10	1,95	7,80
8	P2b	2	CORPO	C	100	50	2,65		151,0	4,02	12,13	97,01
8	P2b	2	SUPORTE	L	70	70	4,76		8,0	5,33	0,85	6,83
8	P2b	4	CH2	CHAPA			4,76		208,0	38,10	3,17	25,36
8	P2b	8	CH1	CHAPA			4,76		128,0	38,10	3,90	31,21
8	P2b	2	SUPORTE TERÇA	L	50	100	3,00		10,0	3,60	0,72	5,76
3	P2c	2	CORPO	C	100	50	2,65		151,0	4,02	12,13	36,38
3	P2c	2	SUPORTE	L	70	70	4,76		8,0	5,33	0,85	2,56
3	P2c	4	CH2	CHAPA			4,76		208,0	38,10	3,17	9,51
3	P2c	8	CH1	CHAPA			4,76		128,0	38,10	3,90	11,70
3	P2c	2	SUPORTE TERÇA	L	50	100	3,00		10,0	3,60	0,72	2,16
3	P3	2	CORPO	C	100	50	2,65		191,0	4,02	15,34	46,02
3	P3	2	SUPORTE	L	70	70	4,76		8,0	5,33	0,85	2,56
3	P3	4	CH2	CHAPA			4,76		208,0	38,10	3,17	9,51
3	P3a	2	CORPO	C	100	50	2,65		1.389,2	4,02	111,56	334,68
3	P3a	2	SUPORTE	L	70	70	4,76		8,0	5,33	0,85	2,56
3	P3a	8	CH1	CHAPA			4,76		128,0	38,10	3,90	11,70
3	P3a	3	SUPORTE TERÇA	L	50	100	3,00		10,0	3,60	1,08	3,24
506	T-1	1	CORPO	C	100	50	3,00		500,0	4,51	22,56	11.415,36
38	T-2	1	CORPO	C	100	50	3,00		250,0	4,51	11,28	428,64
16	T-3	1	CORPO	C	100	50	3,00		600,0	4,51	27,07	433,15
14	T-4	1	CORPO	C	100	50	3,00		245,0	4,51	11,05	154,76
4	T-5	1	CORPO	C	100	50	3,00		247,4	4,51	11,16	44,64
4	T-6	1	CORPO	C	100	50	3,00		410,2	4,51	18,51	74,02
4	T-7	1	CORPO	C	100	50	3,00		428,9	4,51	19,35	77,40
4	T-8	1	CORPO	C	100	50	3,00		306,1	4,51	13,81	55,24
4	T-9	1	CORPO	C	100	50	3,00		625,0	4,51	28,20	112,80
1	CR	1	BANZO	L	40	40	2,65		50.500,0	1,70	856,48	856,48
										-	-	-
										SOMA	kg	26.042,65
										QUEBRA	kg	2.604,27
										TOTAL	kg	28.646,92
										ÁREA DE PROJ		2889,28
										CONSUMO:		9,01