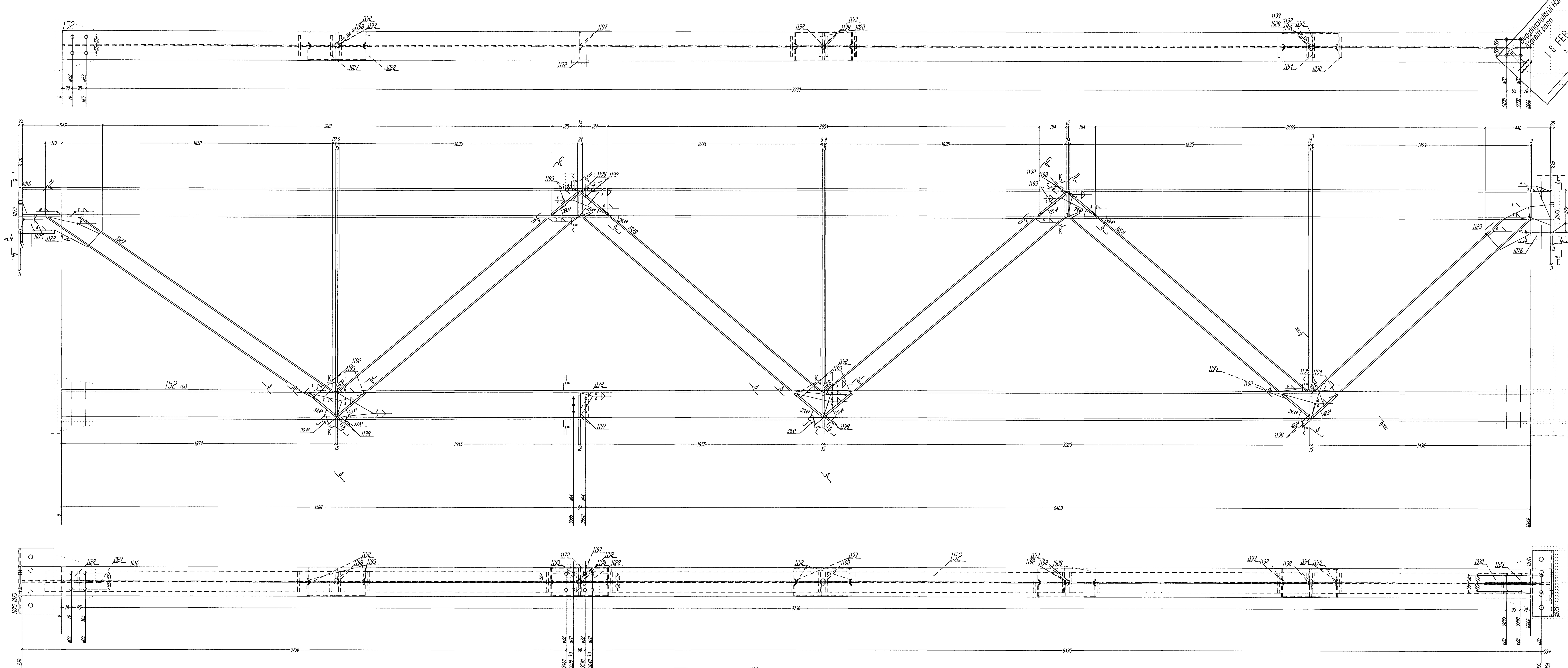
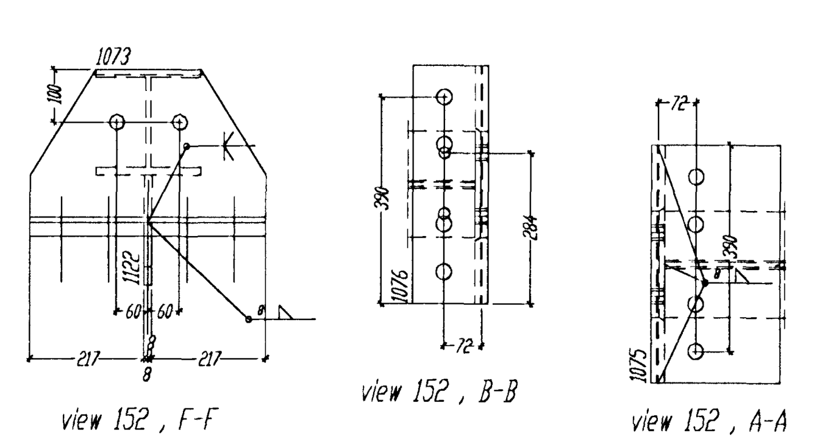
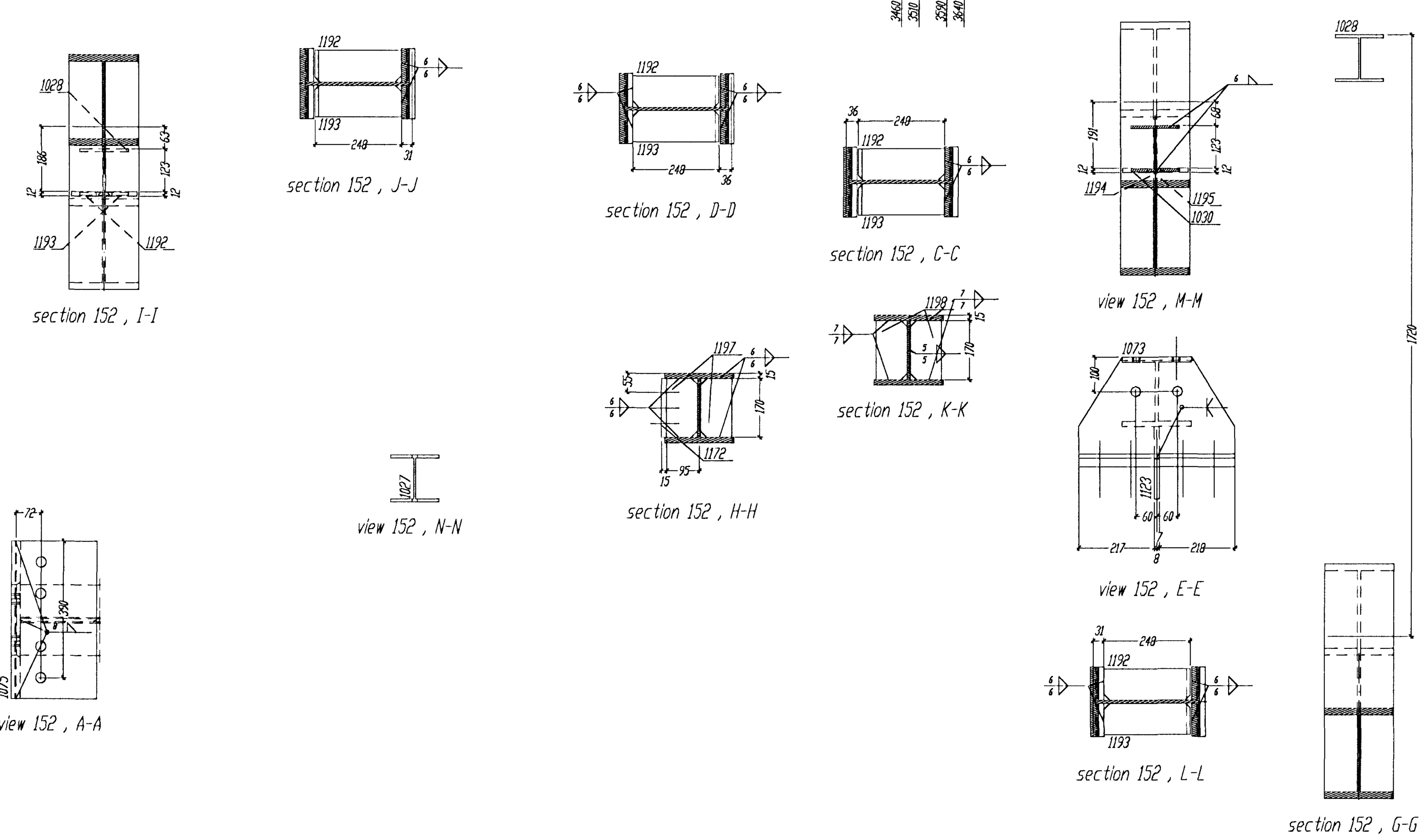


** bill of material for 1 Ship- pos. 152 total 1 X done

Nr.	Tnr	pos.	designation	qty	profil	quality	length	weight	Rem.
1	1	152	TRAEGER	1	HEB200	S235JRG2	10060	616.68	
2	1	1016	TRAEGER	1	HEB200	S235JRG2	10464	641.44	
3	1	1027	TRAEGER	1	HEA140	S235JRG2	2286	56.47	
4	1	1028	TRAEGER	4	HEA140	S235JRG2	2010	198.56	
5	1	1030	TRAEGER	1	HEA140	S235JRG2	1898	46.89	
6	1	1073		2	BL25*450	S235JRG2	290	51.22	
7	1	1075		1	BL25*450	S235JRG2	245	21.64	
8	1	1076		1	BL25*450	S235JRG2	144	12.72	
9	1	1122		1	BL15*207	S235JRG2	547	13.32	
10	1	1123		1	BL15*207	S235JRG2	446	10.86	
11	1	1172		1	FL120*15	S235JRG2	170	2.40	
12	1	1192	RIPPE	9	BL12*90	S235JRG2	248	18.96	
13	1	1193	RIPPE	9	BL12*90	S235JRG2	248	18.96	
14	1	1194	RIPPE	1	BL12*90	S235JRG2	240	2.03	
15	1	1195	RIPPE	1	BL12*90	S235JRG2	240	2.03	
16	1	1197	RIPPE	2	BL12*90	S235JRG2	170	2.88	
17	1	1198	RIPPE	10	BL15*90	S235JRG2	170	18.02	
total weight (kg)								1735.08	
Shipping dimensions (H x B x L): 1576 x 450 x 10514									





Fyrir hönd Conís ehf, kt. 600105-1400 staðfestist að teikning þessi hefur verið yfirfarin. Teikningin er í samræmi við íslenska staðla og reglugerðir. 28/9 '07

Nafn Kennitala 130657-4439

Tolerance for welded constructions According to DIN 8570, Pt.1+3/B+F,10.87

Welding (W P S) according to DIN-EN 288 - 2

All unmarked welds to be fillet continuous a=4mm thick, not greater than 0.7 d of the thinner element

The material for cap plates >20 mm thick to be examined for laminations

Required torques,prestressing forces and forced tension angles according to DIN 18800 Pt. 7, 05.83

	1	2	3	4	5	6				
	Bolts	Required compressing force Fv	Prestressing of HV bolts (Class 10.9) according to: a) Torque techniques — Manual torque wrench — Required grip rotary moment, Lubricated MoS2 1)	Slightly oiled	b) Impulse technique — Mechanical impact wrench — Req. compressing force Fv 2)	c) Angle of rotation techniques — Required tightening torque Mv 2)		Grip length lk	Angle of rotation φM	Rot. measure U
		kN	Nm	Nm	kN	Nm		mm		
1	M12	50	100	120	60	10	M12 to M22	lk < 50	180	1/2
2	M16	100	250	350	110	50		51 < lk < 100	240	2/3
3	M20	160	450	600	175			101 < lk < 170	270	3/4
4	M22	190	650	900	210	100		171 < lk < 240	360	1
5	M24	220	800	1100	240		M24 to M36	lk < 50	180	1/2
6	M27	290	1250	1650	320	200		51 < lk < 100	240	2/3
7	M30	350	1650	2200	390			101 < lk < 240	270	3/4
8	M36	510	2800	3800	560					

1) Due to the great dependance of the Mv value on the type of thread lubricant adhere to the bolt manufacturer's recommendations.
2) Independently on the lubricant of the threads and surfaces of bolts and nuts. CAUTION For hot galvanized HV bolts use values from column 3.

BIURO INZYNIERSKIE
Marek i Janina MUCHA
Osiny, ul. Opolska 30a, 46-070 Komprachcice tel.077-46 46 757

	DATE	NAME	SIGNATURE
Designed by	12.06.2007	M.Mucha	
Compiled by			
Verified by			

INDEX	CHANGES	DATE	NAME

1:10 SCALE

Pos. 152

DESC.

TJARNARVELLIR 11
Steel Office part

ERRAND

DRAWING NO. DRG 119

SHEET Bl.