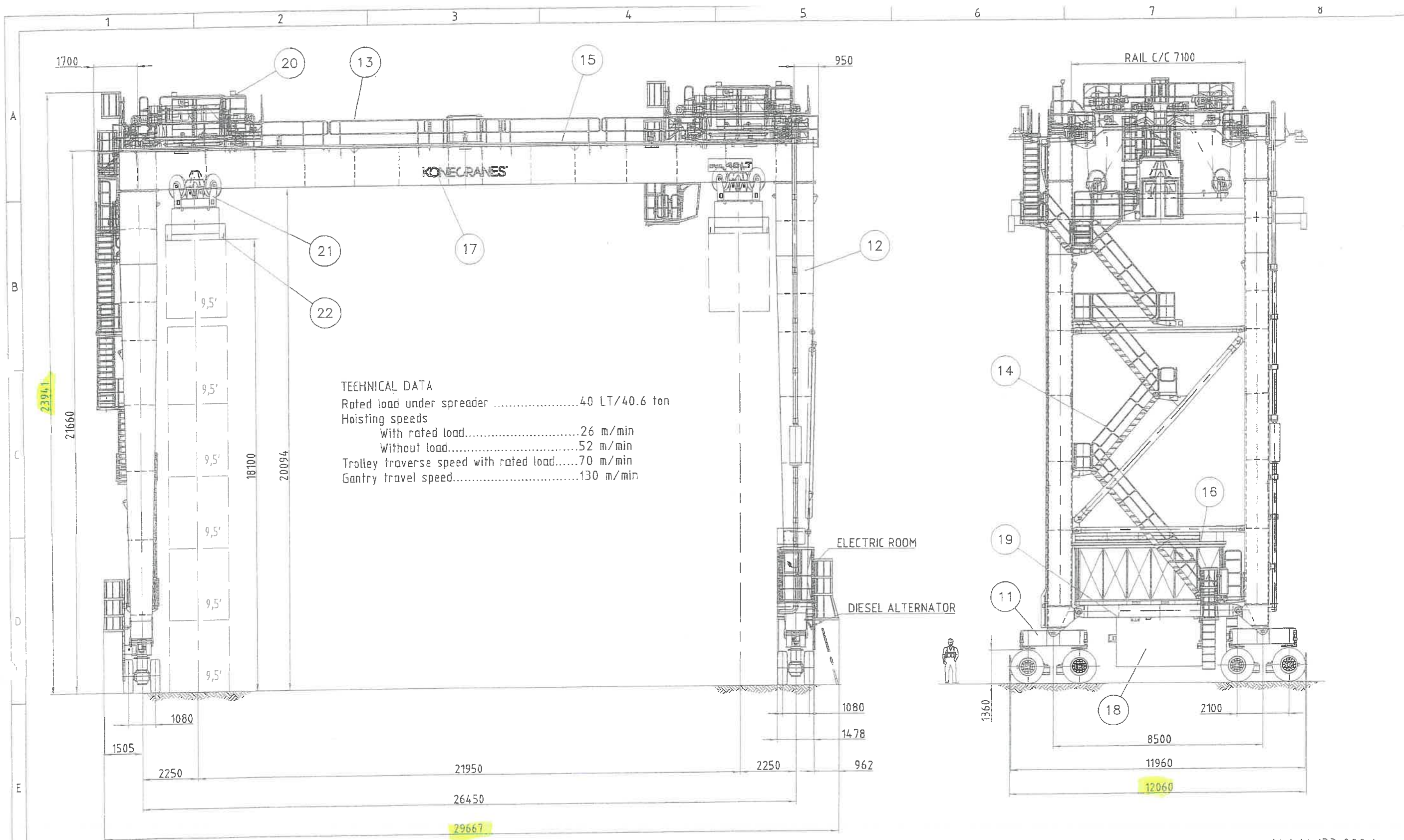




22	1	Spreader	Bromma YSX45E	6400
21	1	Head block	RTG-HB	2800
20	1	Trolley	LV1075E	20710
19	1	Fastening of apr.	RTG161-GA	0
18	1	Generator set	VOLVO PENTA TAD1242 GE	6000
17	1	Plate arrangement	GB18-KI	10

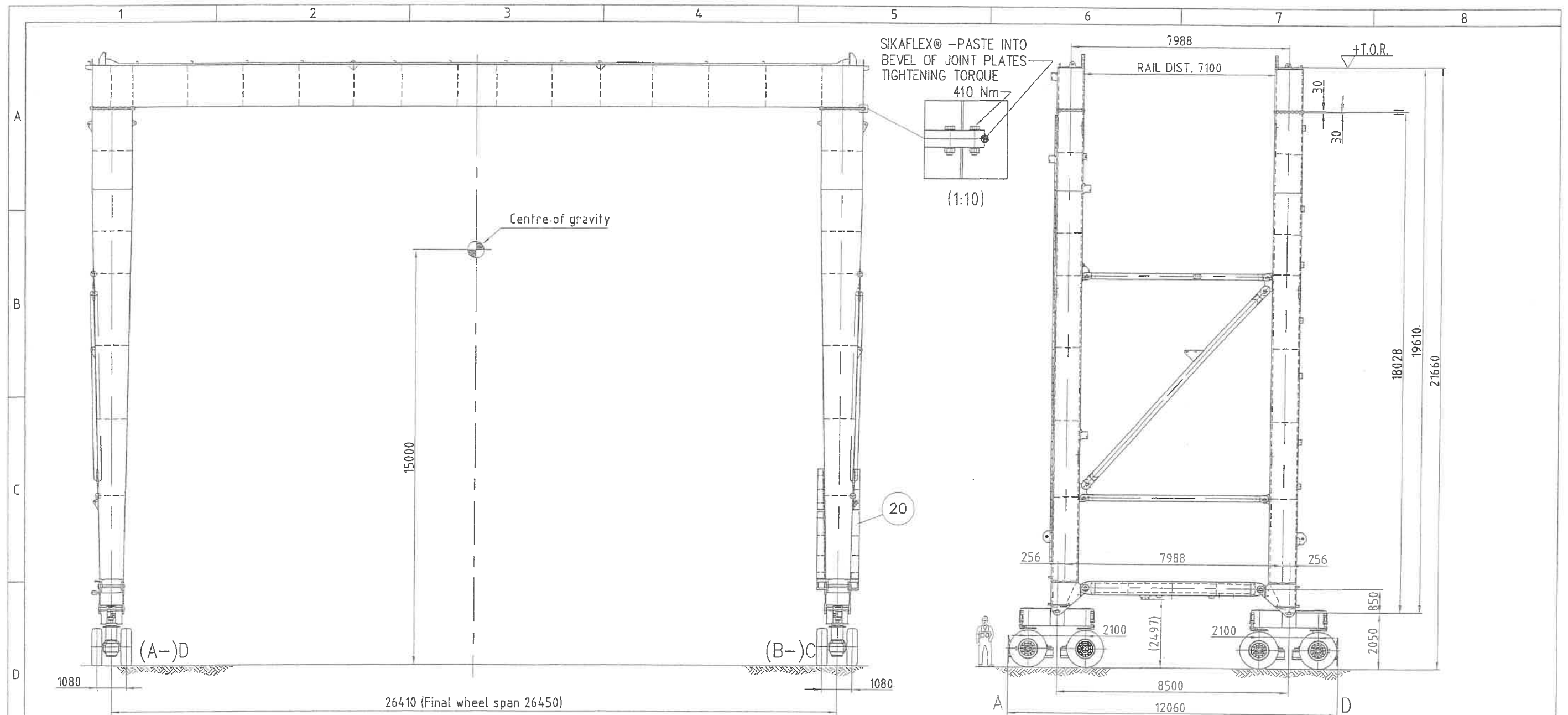
16	1	Electric room	G783-EL	2328
15	1	Cableways	GB18-X	1472
14	1	Walkways of leg	GB18-CF	3187
13	1	Walkways of m.g	GB18-F	3527
12	1	Steel construction	GB18-A	63883
11	1	Gantry bogies	KM3053	22430

REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A	08.05.07	Approved for production	TLe	
Rev	Date	Description	Drn	Appd
Included in				

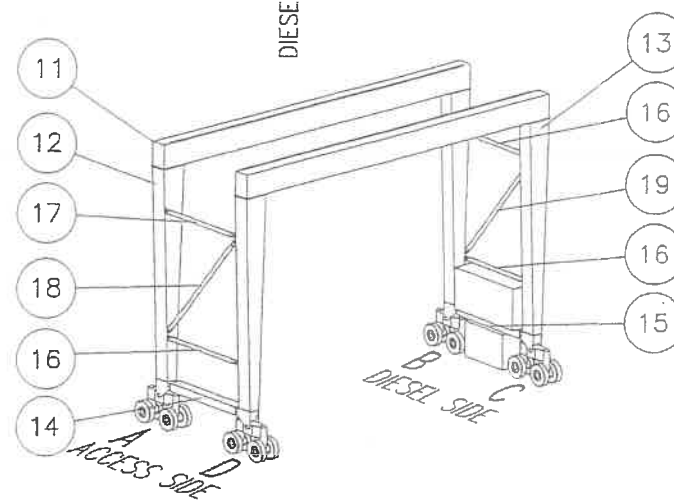
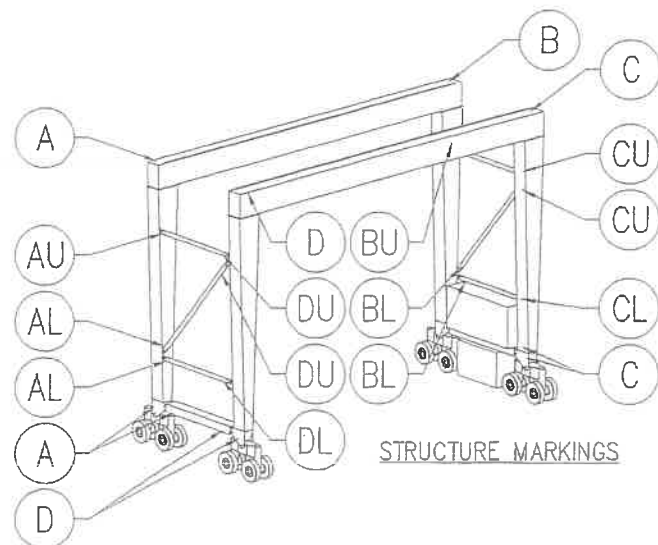
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd			Date 22.02.2007	File G818.dwg	Department		A2
Check			TITLE				Scale
			40 LT RUBBER GANTRY CRANE				1:100
Drawn			HPC ODESA, UKRAINE				
T. Lehtonen							
KONECRANES			Drawing no.				Rev
			G818-821				A

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ACCESS SIDE

DIESEL SIDE



Weight = 63594 kg

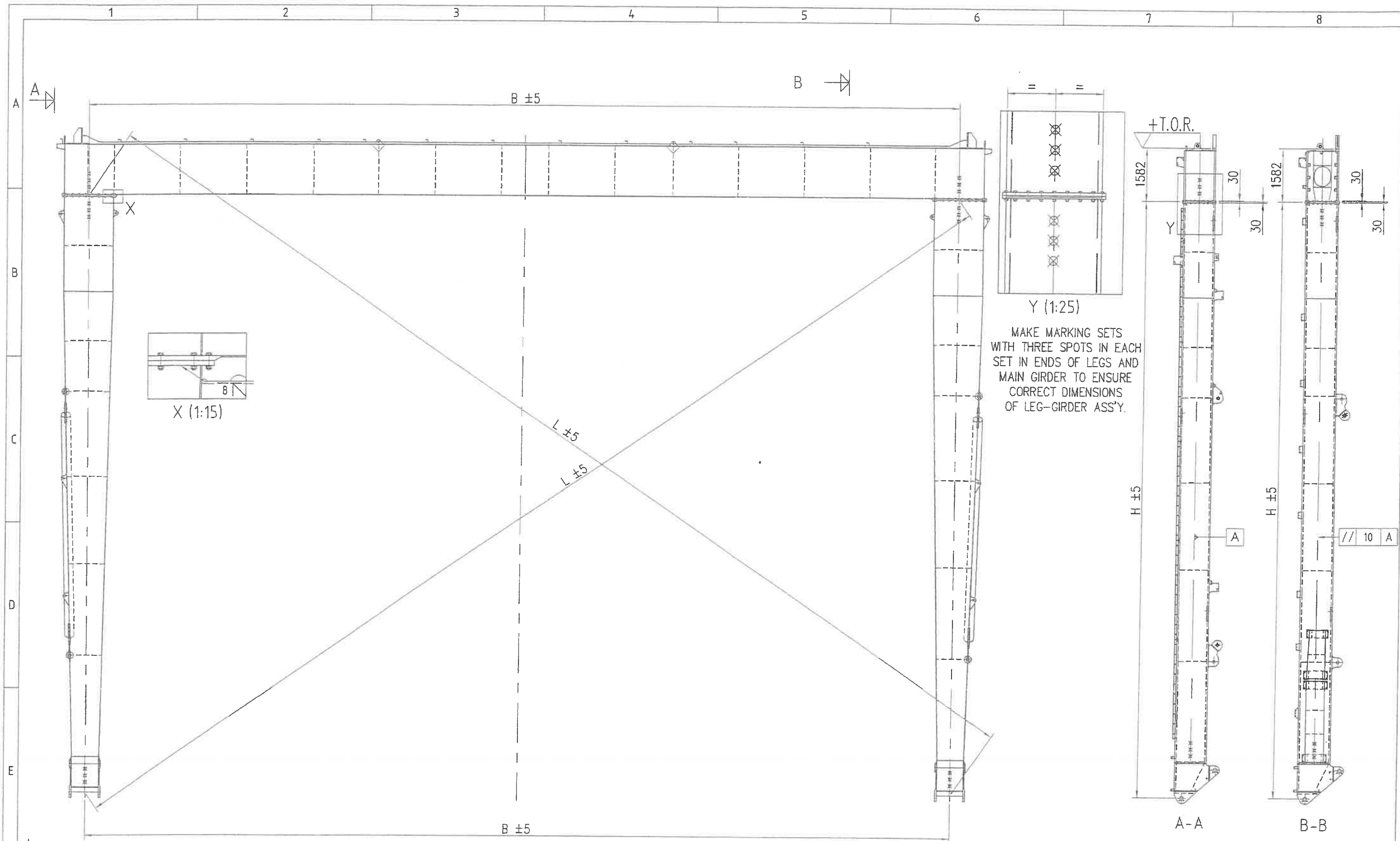
20	1	Coll. buffers diesel	RTG161-BUF1		979	
19	1	Diagonal	RTG161-C4B		677	
18	1	Diagonal	RTG161-C4A		694	
17	1	Upper horiz. rod a	RTG161-C3B		239	
16	3	Horizontal rod	RTG161-C3		693	
15	1	Sill beam, diesel s	RTG161-C2		1785	
14	1	Sill beam, access s	RTG161-C1		1691	
13	1	Leg structure, dies	RTG162-CB		13798	
12	1	Leg structure, acce	RTG162-CA		13665	
11	1	Main girder	G818-PK		29373	
--	--	Joints of leg frame	G818-A-OP2		0	
--	--	Joints between legs	G818-A-OP1		0	

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd							
Check							
Drawn							
Date		22.02.2007	File	G818-A.dwg	Department	Size	A2
TITLE		STEEL CONSTRUCTION				Scale	1:100
D		T. Lehtonen				Rev	D
KONECRANES		Drawing no.				G818-A	

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

D	27.09.07	RTG161-C3A removed, 1 pcs pos.16 add	TLe		
C	19.03.07	Legs updated	TLe		
B	08.03.07	Main girder updated	TLe		
A	22.02.07	Approved for production	TLe		
Rev	Date	Description	Drn	Appd	M-Item
Included in					



MAKE MARKING SETS
WITH THREE SPOTS IN EACH
SET IN ENDS OF LEGS AND
MAIN GIRDER TO ENSURE
CORRECT DIMENSIONS
OF LEG-GIRDER ASS'Y.

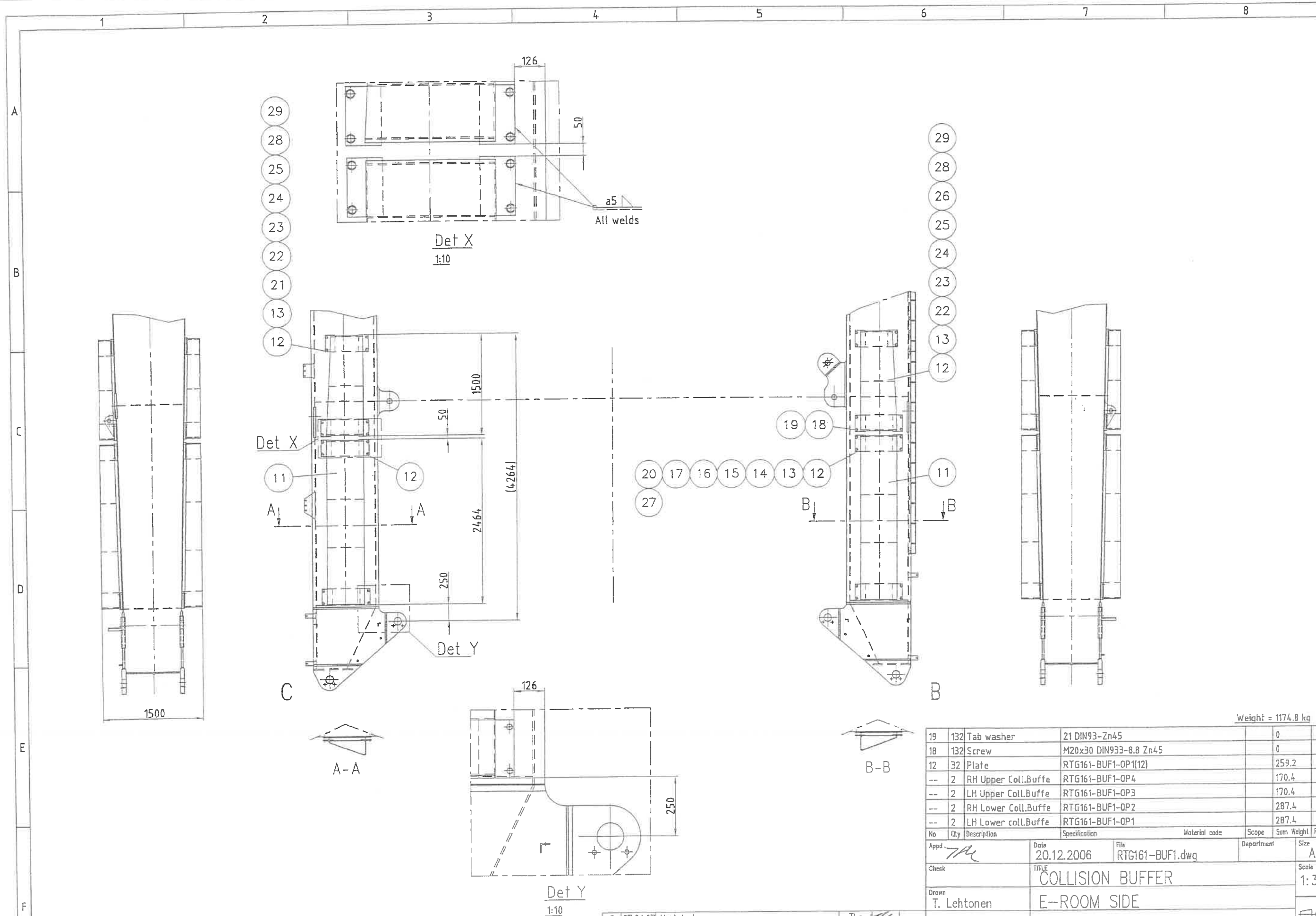
NOTE:
THE STRUCTURE MUST BE IN HORIZONTAL POSITION
WHEN MEASURING THE ASS'Y DIMENSION.

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd		PHK	Date	File	Department	Size	A2
Check			22.02.2007	G818-A-OP1.dwg			
Drawn		T. Lehtonen	TITLE			Scale	1:75
			JOINTS BETWEEN LEGS AND				
			MAIN GIRDER				
KONECRANES			Drawing no.			Rev	B
			G818-A-OP1				

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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

B	08.03.07	Main girder updated	TLe			
A	22.02.07	Approved for production	TLe			
Rev	Date	Description	Drn	Appd	M-Drn	
Included in						



Weight = 1174.8 kg

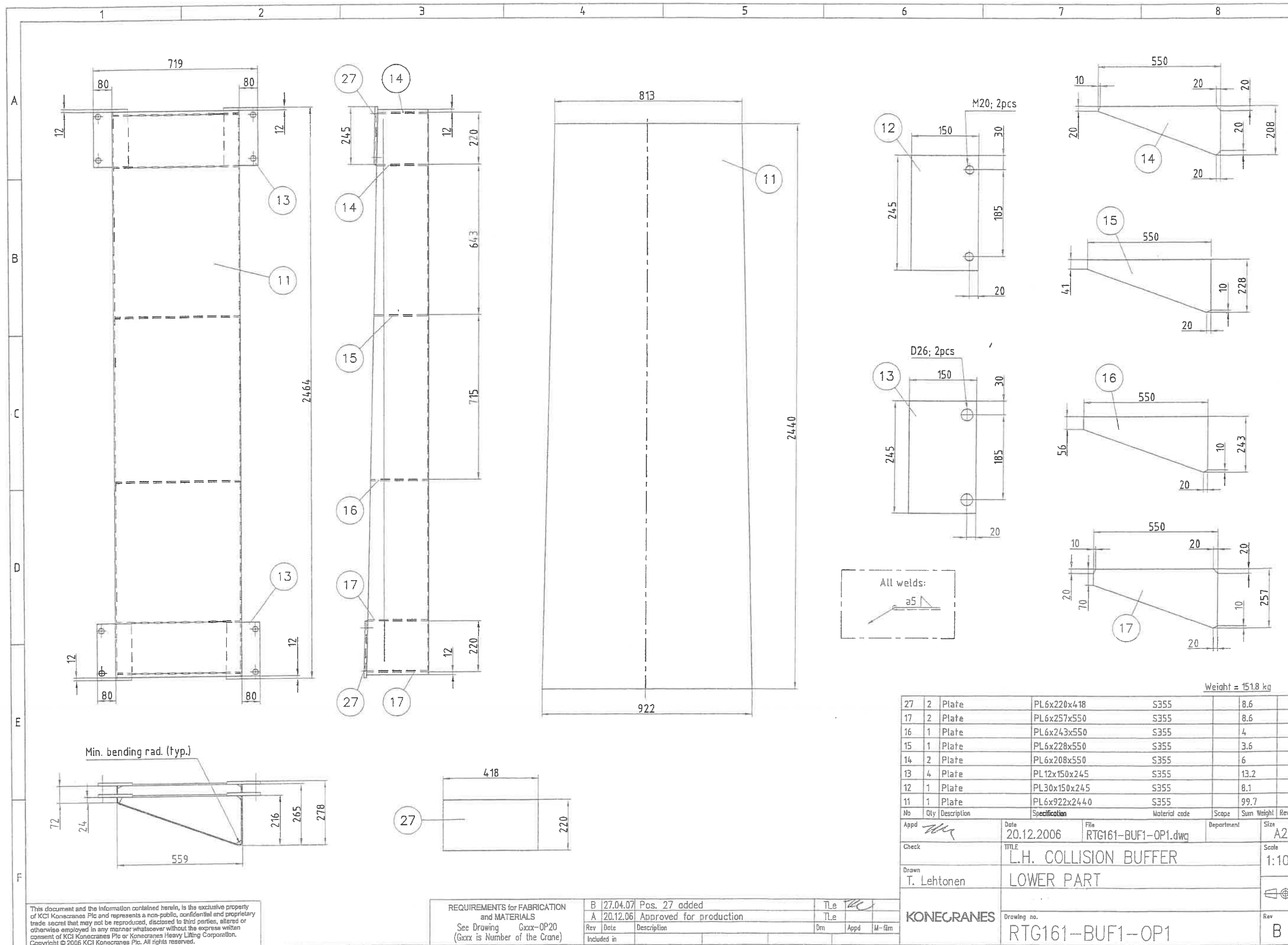
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
19	132	Tab washer	21 DIN93-Zn45			0	
18	132	Screw	M20x30 DIN933-8.8 Zn45			0	
12	32	Plate	RTG161-BUF1-OP1(12)			259.2	
--	2	RH Upper Coll.Buffe	RTG161-BUF1-OP4			170.4	
--	2	LH Upper Coll.Buffe	RTG161-BUF1-OP3			170.4	
--	2	RH Lower Coll.Buffe	RTG161-BUF1-OP2			287.4	
--	2	LH Lower coll.Buffe	RTG161-BUF1-OP1			287.4	

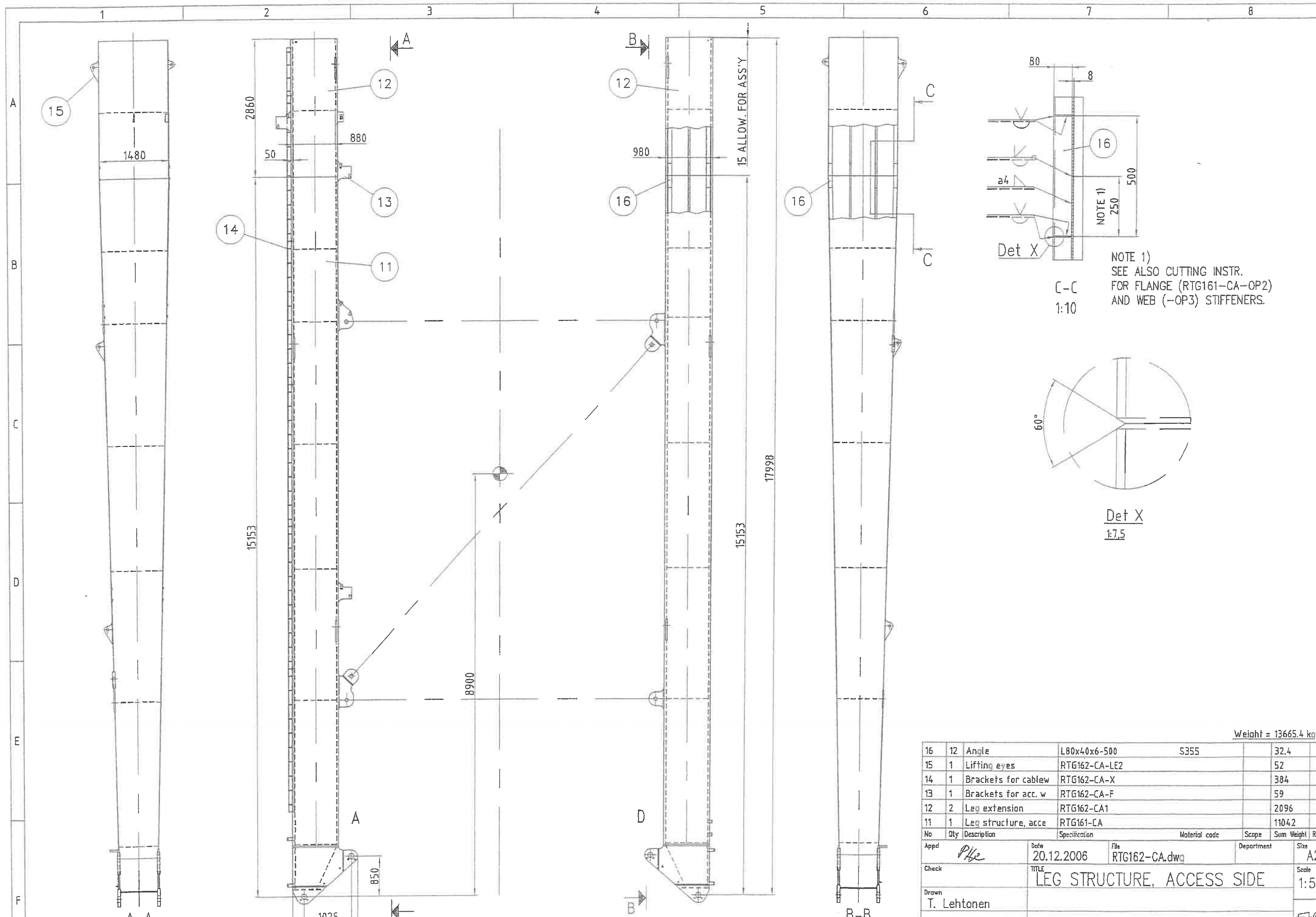
No	Qty	Description	Specification	Material code	Scope	Sum	Weight	Rev
Appd.			Date	20.12.2006	File	RTG161-BUF1.dwg	Department	Size
Check			TITLE	COLLISION BUFFER				Scale
Drawn		T. Lehtonen	E-ROOM SIDE					1:3
			LEG STRUCTURES					
		KONECRANES	Drawing no.	RTG161-BUF1				Rev
								0

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

Rev	Date	Description	Drn	Appd.	M-Item
C	27.04.07	Updated	TLe		
B	11.04.07	Pos. 12, 18 & 19 Qty corrected	TLe		
A	20.12.06	Approved for production	TLe		
Included in					





NOTE 1)
SEE ALSO CUTTING INSTR.
FOR FLANGE (RTG161-CA-OP2)
AND WEB (-OP3) STIFFENERS.

Det X
1:7,5

Weight = 13665,4 kg

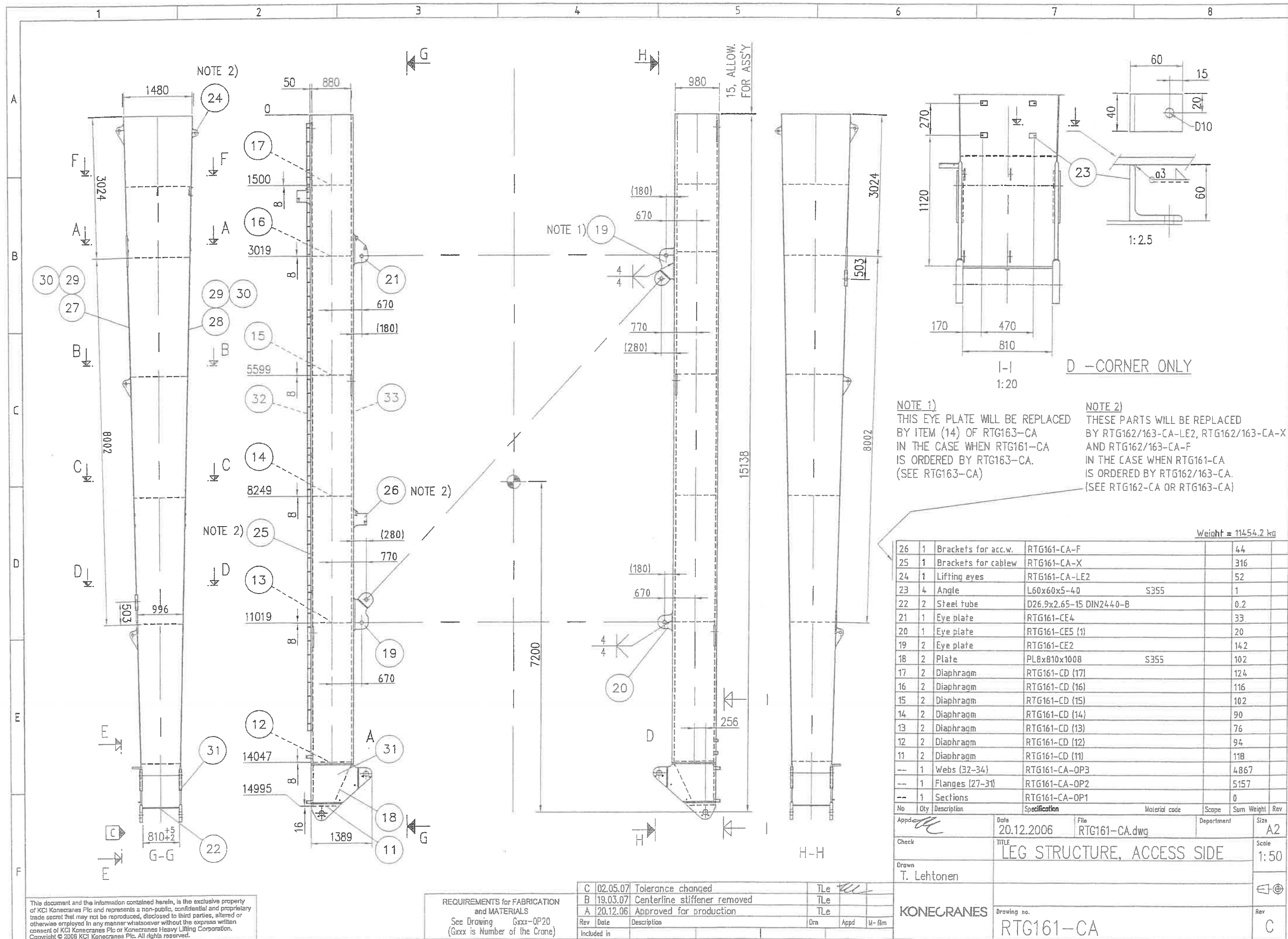
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
16	12	Angle	L80x40x6-500	S355		32,4	
15	1	Lifting eyes	RTG162-CA-LE2			52	
14	1	Brackets for cablew	RTG162-CA-X			384	
13	1	Brackets for acc. w	RTG162-CA-F			59	
12	2	Leg extension	RTG162-CA1			2096	
11	1	Leg structure, acce	RTG161-CA			11042	

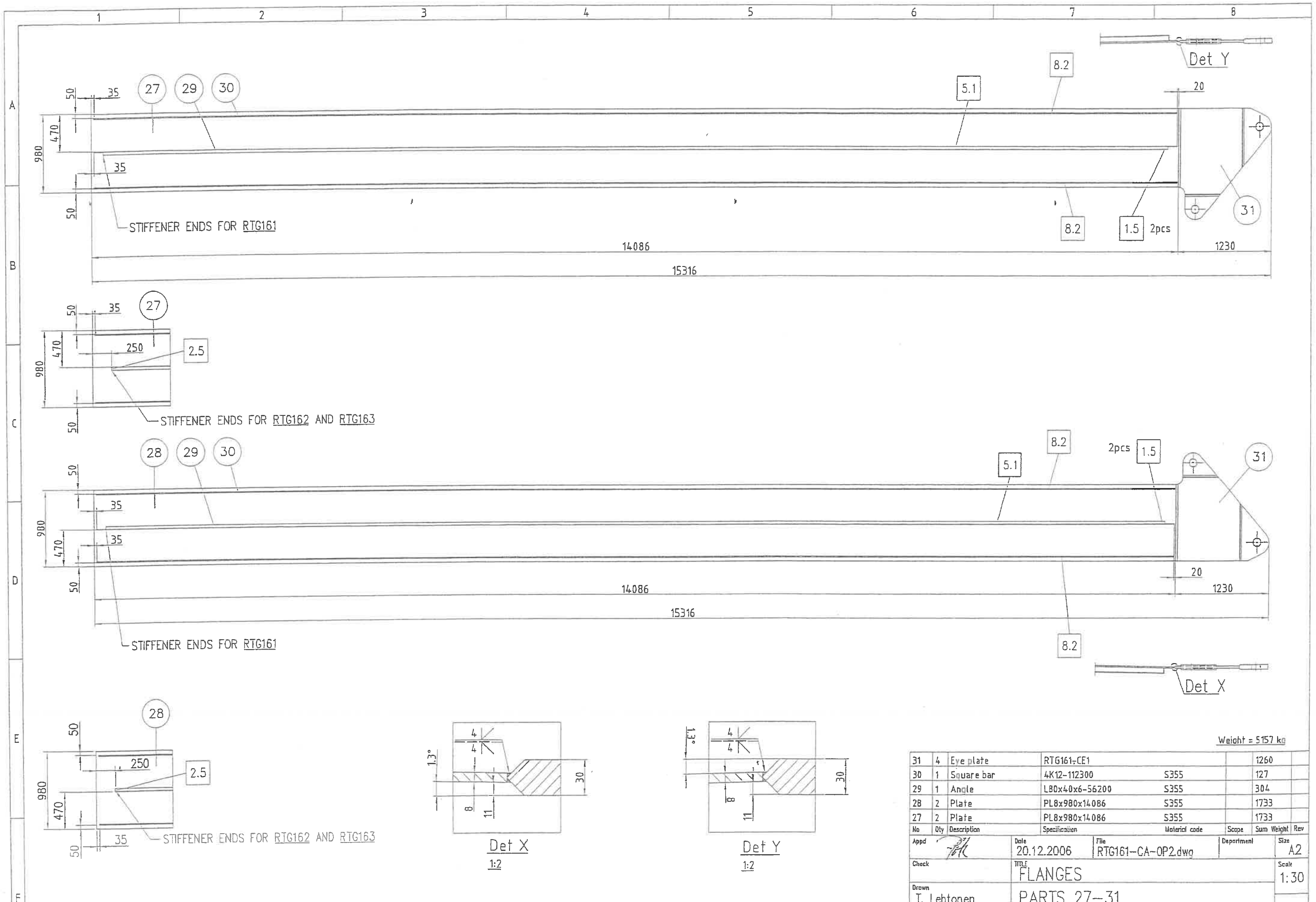
Appd	<i>PHe</i>	Date	20.12.2006	File	RTG162-CA.dwg	Department	Size
Check		TITLE	LEG STRUCTURE, ACCESS SIDE				Scale
Drawn	T. Lehtonen						1:50
KONECRANES							Rev
Drawing no. RTG162-CA							B

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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

B	19.03.07	RTG161-CA updated	TLe	<i>PHe</i>		
A	20.12.06	Approved for production	TLe			
Rev	Date	Description	Dm	Appd	M-Rev	
Included in						





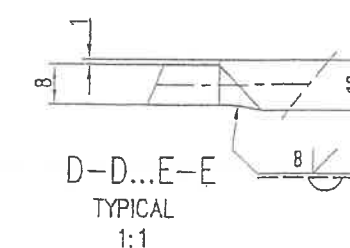
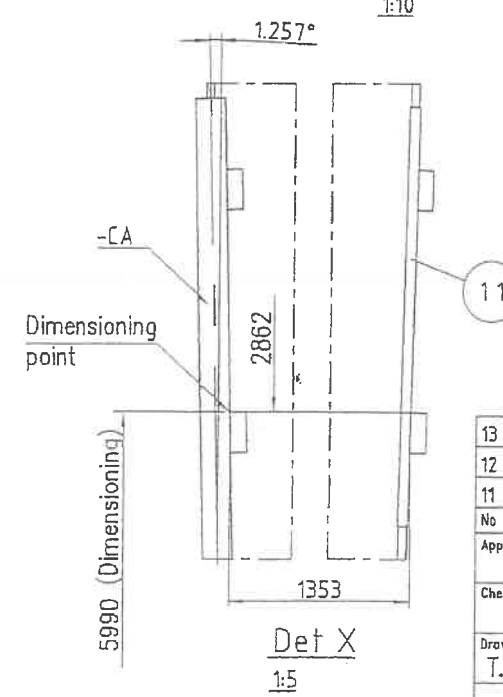
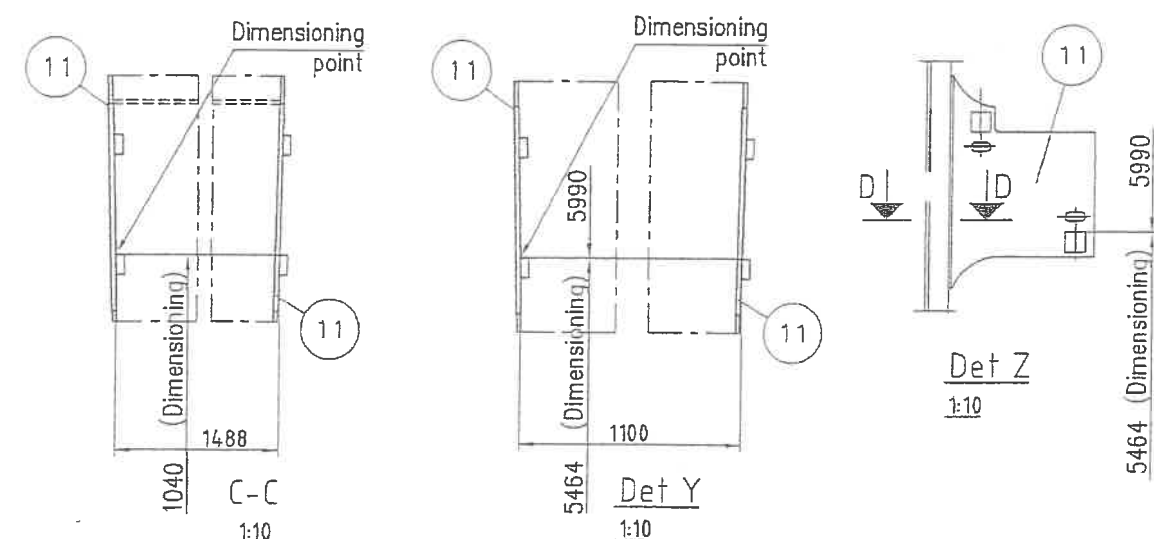
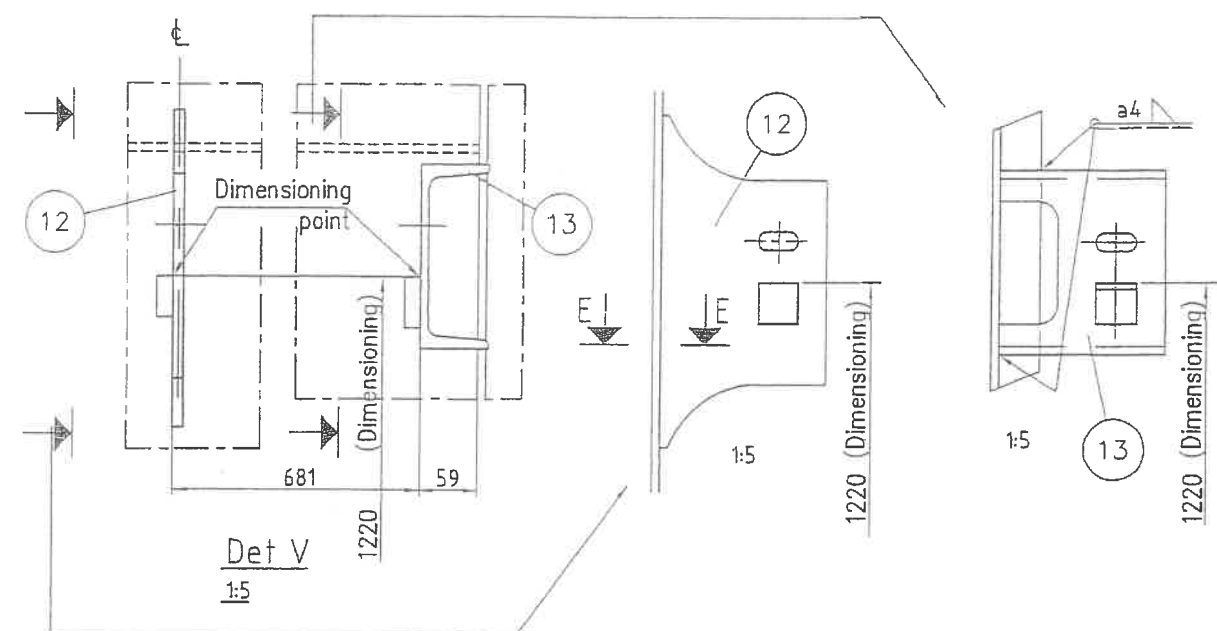
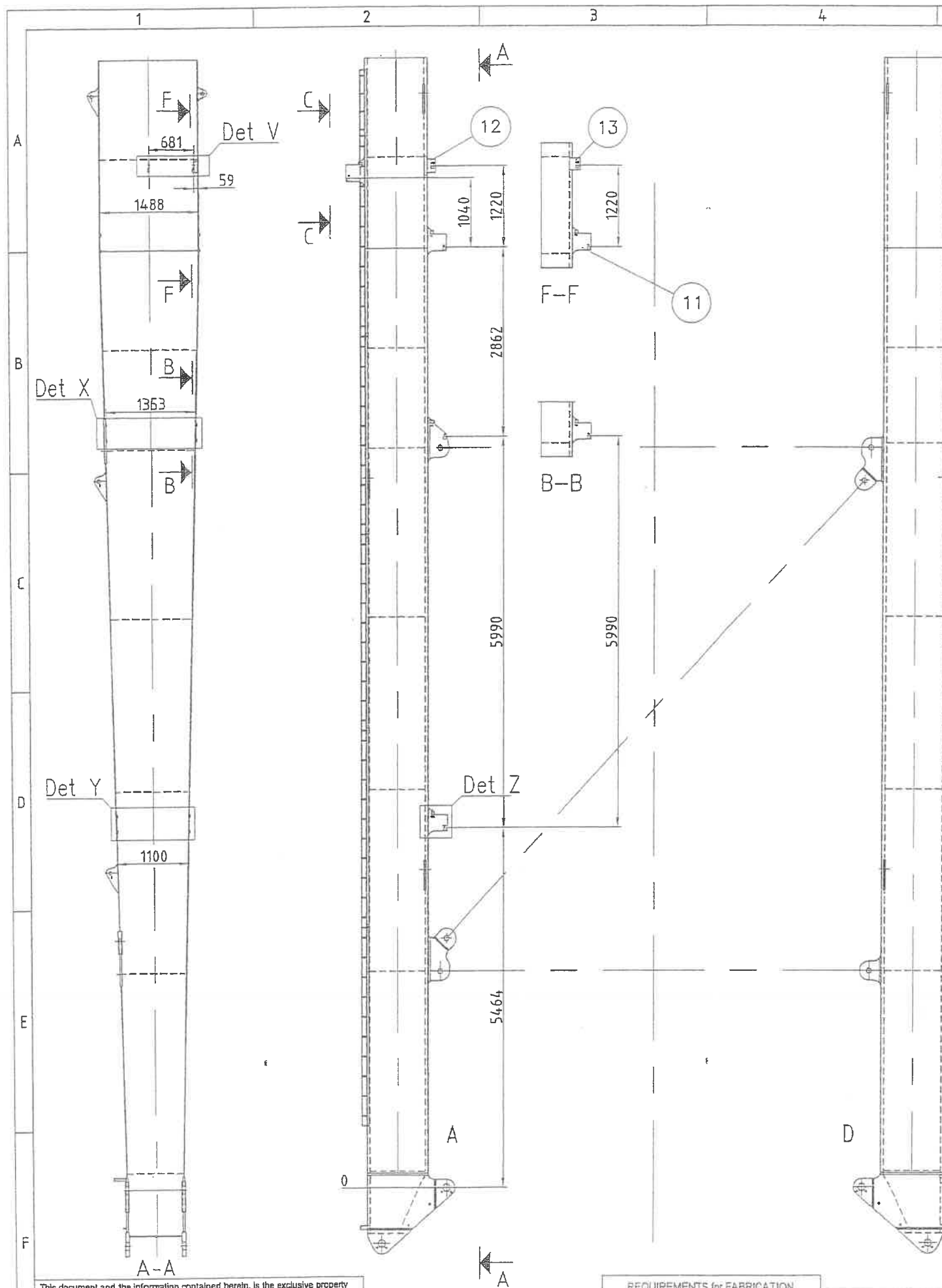
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STRUCTURAL DETAILS
References by squares [X]
to drawing D6660

REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A 20.12.06 Approved for production
Rev Date Description
Included in

TLe [Signature]
Dm Appd M-film



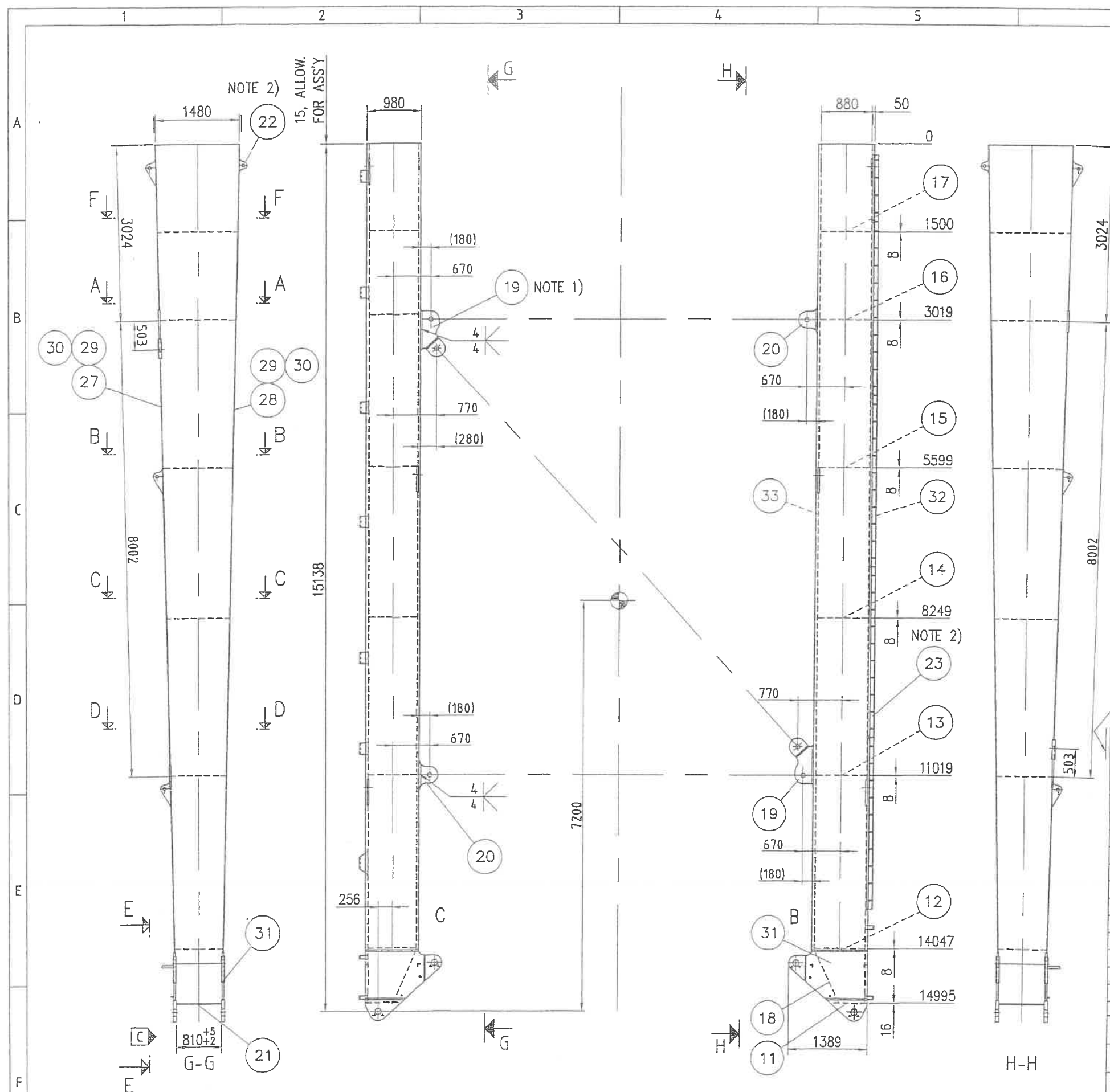
Weight = 58.6 kg

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
13	1	Bracket	RTG161-CE8			3.4	
12	1	Bracket	RTG161-CE7			3.4	
11	7	Bracket	RTG161-CE6			51.8	
Appd <i>FLH</i> Date 20.12.2006 File RTG162-CA-F.dwg Department Size A2							
Check TITLE BRACKETS FOR ACCESS WAYS Scale 1:50							
Drawn T. Lehtonen							
KONECRANES Drawing no. RTG162-CA-F							
							Rev A

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A	20.12.06	Approved for production	TLe	FLH		
Rev	Date	Description	Drn	Appd	M-film	
1						



NOTE 1)
THIS EYE PLATE WILL BE REPLACED
BY ITEM (14) OF RTG163-CB
IN THE CASE WHEN RTG161-CB
IS ORDERED BY RTG163-CB.
(SEE RTG163-CB)

NOTE 2)
THESE PARTS WILL BE REPLACED
BY RTG162/163-CB-LE2 AND
RTG162/163-CB-X
IN THE CASE WHEN RTG161-CB
IS ORDERED BY RTG162/163-CB.
(SEE RTG162-CB OR RTG163-CB)

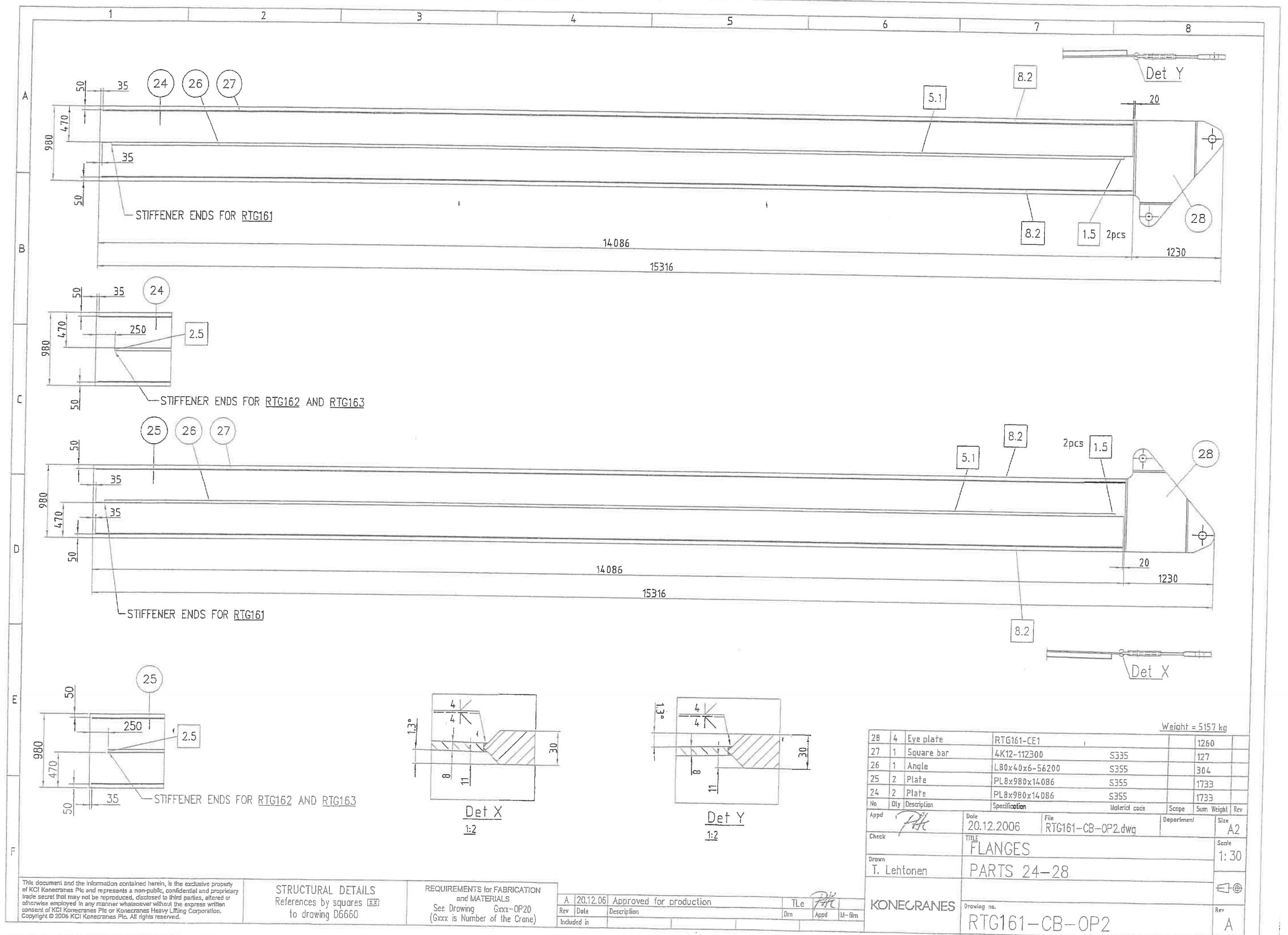
				Weight = 11567.2 kg
23	1	Brackets for cablew	RTG161-CB-X	487
22	1	Lifting eyes	RTG161-CB-LE2	52
21	2	Steel tube	D26.9x2.65-15 DIN2440-B	0.2
20	2	Eye plate	RTG161-CE5 (1)	40
19	2	Eye plate	RTG161-CE2	142
18	2	Plate	PL8x810x1008 S355	102
17	2	Diaphragm	RTG161-CD (17)	124
16	2	Diaphragm	RTG161-CD (16)	116
15	2	Diaphragm	RTG161-CD (15)	102
14	2	Diaphragm	RTG161-CD (14)	90
13	2	Diaphragm	RTG161-CD (13)	76
12	2	Diaphragm	RTG161-CD (12)	94
11	2	Diaphragm	RTG161-CD (11)	118
--	1	Webs (29-31)	RTG161-CB-OP3	4867
--	1	Flanges (24-28)	RTG161-CB-OP2	5157
--	1	Sections	RTG161-CB-OP1	0

No	Qty	Description	Specification	Material code	Scope	Sum	Weight	R
Appd	<i>ve</i>	Date	20.12.2006	File	RTG161-CB.dwg	Department		Size
Check		TITLE	LEG STRUCTURE, DIESEL SIDE					Scale
Drawn								1:5
T. Lehtonen								
KONECRANES		Drawing no.	RTG161-CB					Rev
								C

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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

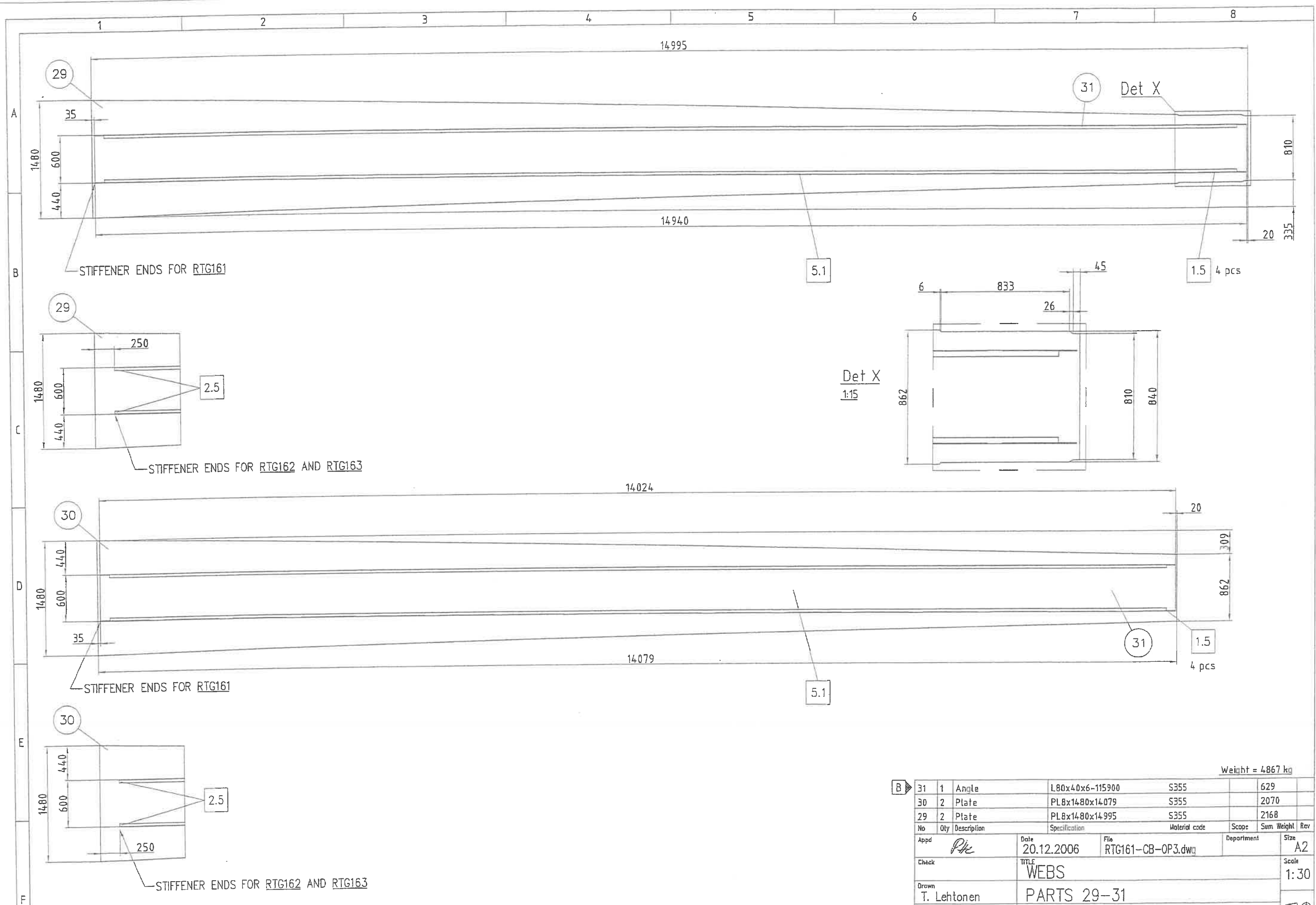
C	02.05.07	Tolerance changed	TLe	<i>ML</i>	
B	19.03.07	Centerline stiffener removed	TLe		
A	20.12.06	Approved for production	TLe		
Rev	Date	Description	Drn	Appd	M-File
Included in					



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STRUCTURAL DETAILS
References by squares [XY]
to drawing D6660

REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)



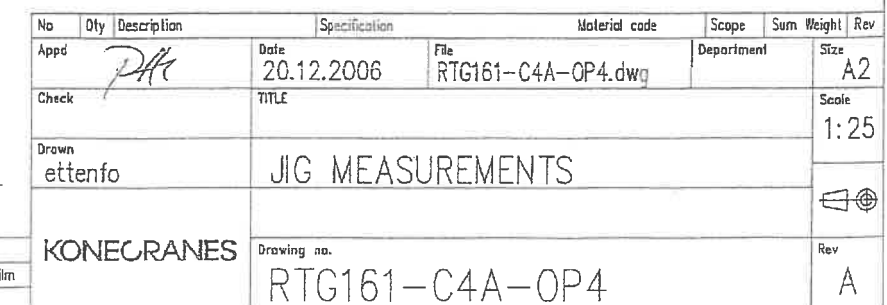
No	Qty	Description	Specification	Material code	Scope	Sum	Weight	Rev
31	1	Angle	L80x40x6-115900	S355		629		
30	2	Plate	PL8x1480x14079	S355		2070		
29	2	Plate	PL8x1480x14995	S355		2168		
Appd <i>Ple</i> Date 20.12.2006 File RTG161-CB-OP3.dwg Department Size A2								
Check TITLE WEBS Scale 1:30								
Drawn T. Lehtonen PARTS 29-31								
KONECRANES Drawing no. RTG161-CB-OP3 Rev B								

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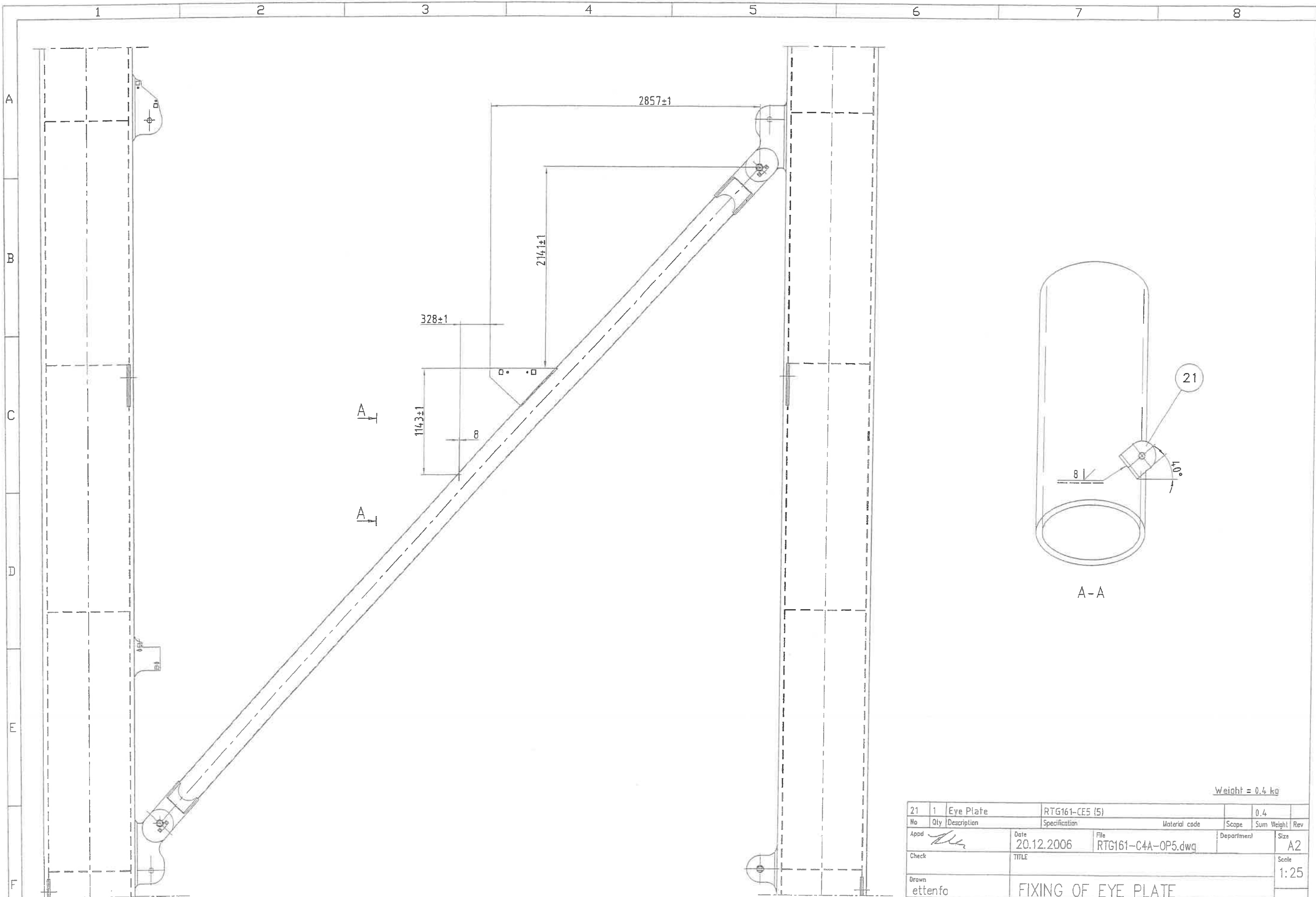
STRUCTURAL DETAILS
References by squares [X] to drawing D6660

REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

B	19.03.07	Centerline stiffener removed	TLe	<i>Ple</i>	
A	20.12.06	Approved for production	TLe		
Rev	Date	Description	Drn	Appd	M-Plm
Included in					



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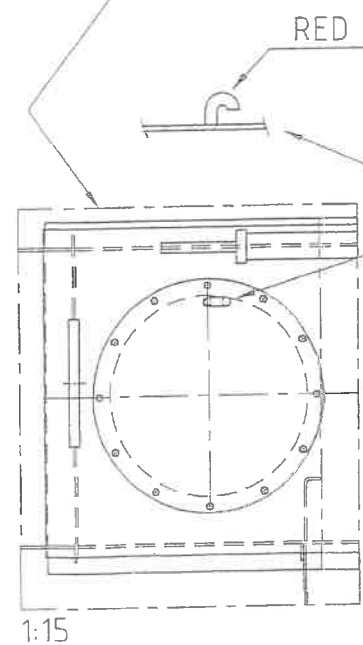
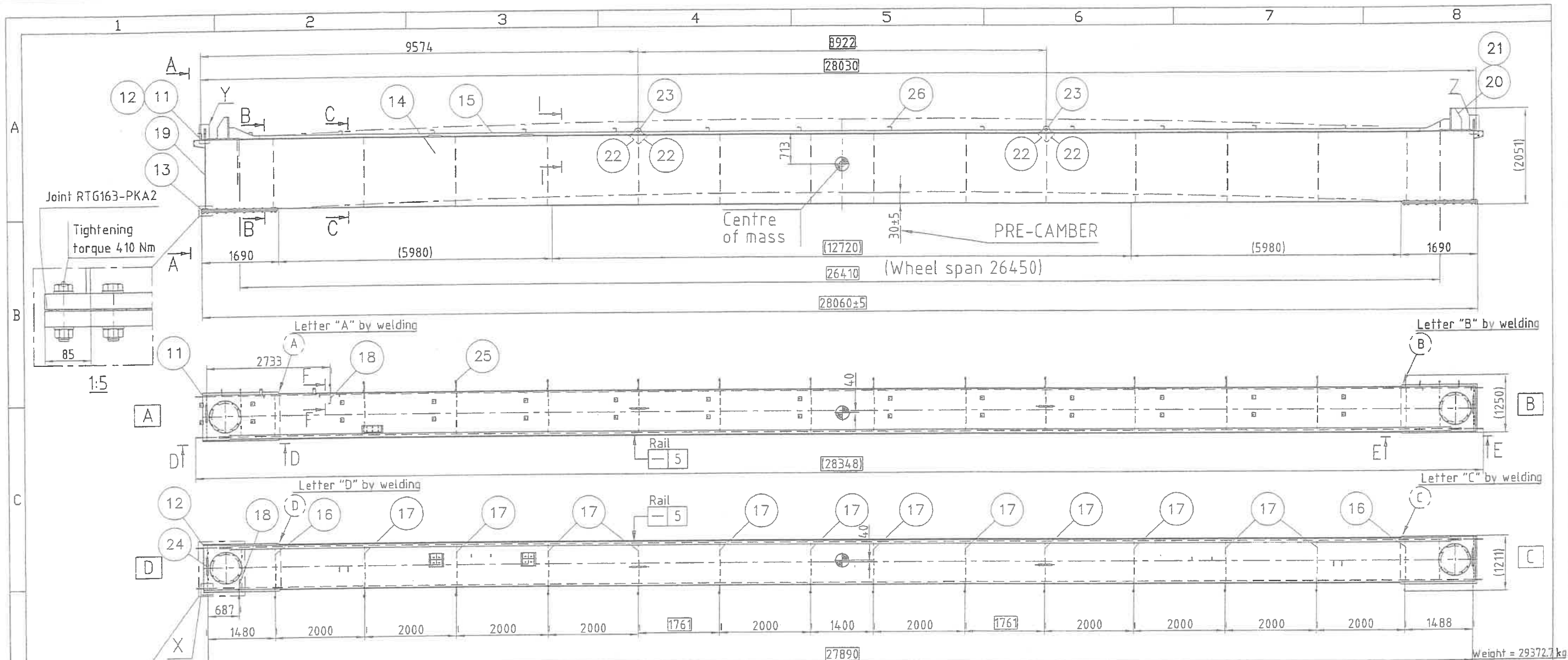


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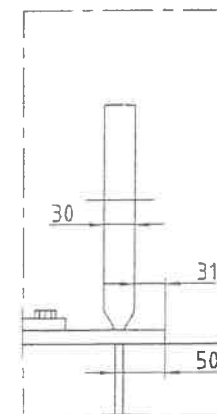
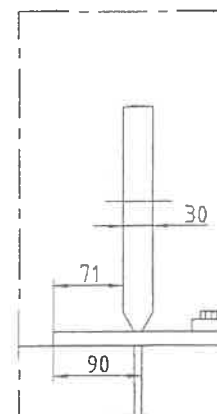
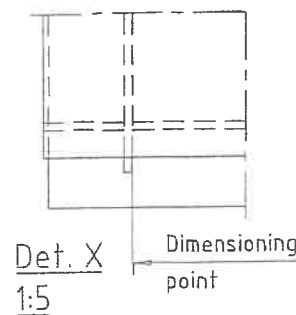
REQUIREMENTS for FABRICATION and MATERIALS				TLe			
See Drawing Gxxx-OP20 (Gxxx is Number of the Crane)				NFO			
Rev	Date	Description	Included in	Drn	Appd	M-Item	
B	28.03.07	Updated					
A	20.12.06	Approved for production					

Weight = 0.4 kg										
21	1	Eye Plate	RTG161-CE5 (5)				0.4			
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev			
Appd			Date	20.12.2006	File	RTG161-C4A-OP5.dwg	Department	Size	A2	
Check	TITLE							Scale	1:25	
Drawn	ettenfo		FIXING OF EYE PLATE							
KONECRANES			Drawing no.						Rev	B
			RTG161-C4A-OP5							

Weight = 0.4 kg



NOTE 1: The goose neck pipe location of all manhole decks is to be near the buffer end stop.
NOTE 2: The goose neck pipe to be painted with red paint!



Partlist continued in -OP2-drawing

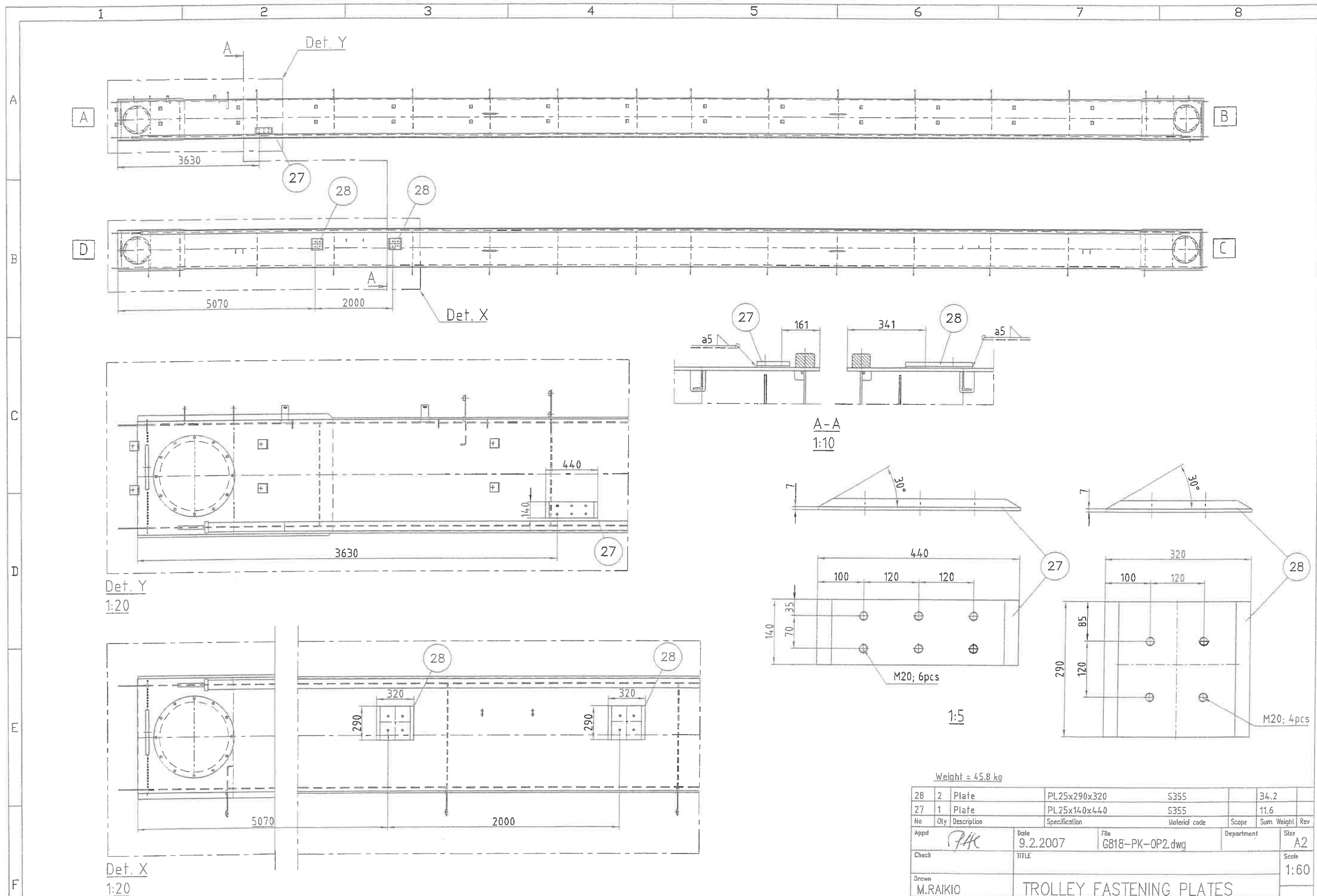
No	Qty	Description	Specification	Material code	Scope	Sum	Weight	Rev
26	1	Cableway fixing plates	RTG163-PKX			39.8		
25	1	Walkway fixing plates	RTG163-PKF			162.3		
24	4	Lifting eye	RTG16-PKA6-2			53.6		
23	4	Lifting eye	RTG16-PKA6-1			16		
22	8	Main girder parts	D5133 (3)			16		
21	4	Plate	PL30x100x470	S235		44		
20	4	Main girder parts	D5133 (2)			88		
19	4	Main girder parts	D5133 (1),(4)	S355		409.2		
18	2	Diaphragm	RTG16-PKA5-3			26		
17	24	Center diaphragm	RTG16-PKA5-2			184.8		
16	4	End diaphragm	RTG16-PKA5-1			336		
15	2	Rail assembly	RTG163-PKA4			2112		
14	2	Webs	RTG163-PKA3			11954		
13	2	Lower flange	RTG163-PKA2			5792		
12	1	Upper flange	RTG163-PKA1-2			3215		
11	1	Upper flange	RTG163-PKA1-1			3215		
---	1	Trolley fastening plates	G818-PK-OP2			45.8		
---	1	Sections	G818-PK-OP1			0		

Appd	Date	File	Department	Size
PKK	9.2.2007	G818-PK.dwg		A2
Check	Title	Scale	Rev	
M. RAIKIO	MAIN GIRDERS	1:60		
Drawn	Drawing no.	Rev		
M. RAIKIO	G818-PK	B		

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

Rev	Date	Description	Drn	Appd	M-film
B	09.03.07	Pos.18, 1pcs removed	MRa	PKK	
A	09.02.07	Approved for production	MRa		
---	---	---	---	---	---



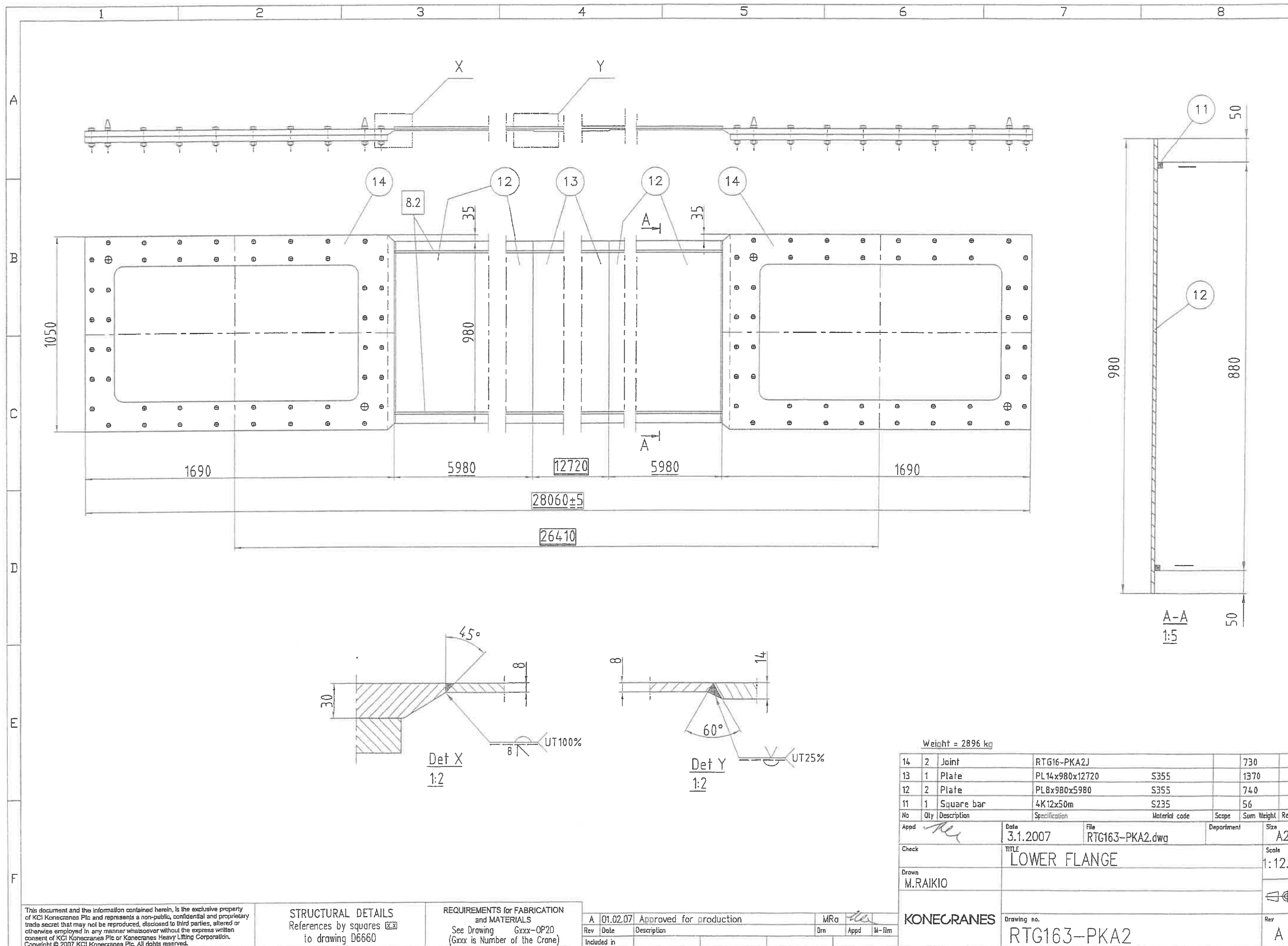
Weight = 45.8 kg

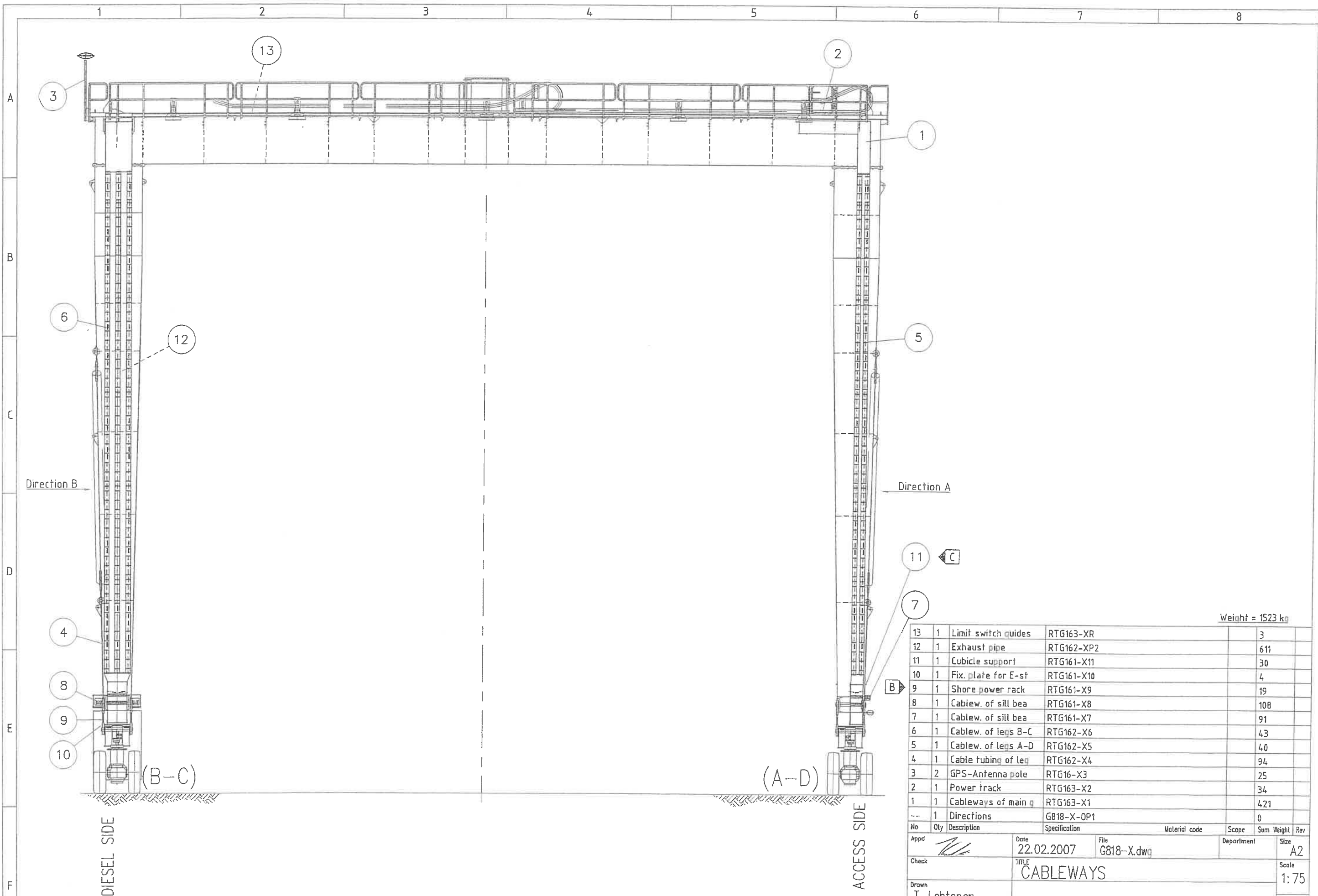
28	2	Plate	PL25x290x320	S355		34.2	
27	1	Plate	PL25x140x440	S355		11.6	
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd		PAC	Date	File	Department		Size
Check			9.2.2007	G818-PK-OP2.dwg			A2
		TITLE					Scale
Drawn		TROLLEY FASTENING PLATES					1:60
M.RAIKIO							
							
KONECRANES		Drawing no.					Rev
		G818-PK-OP2					B

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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

B	09.03.07	Updated	MRa	
A	09.02.07	Approved for production	MRa	
Rev	Date	Description	Drn	Appd
Included in				



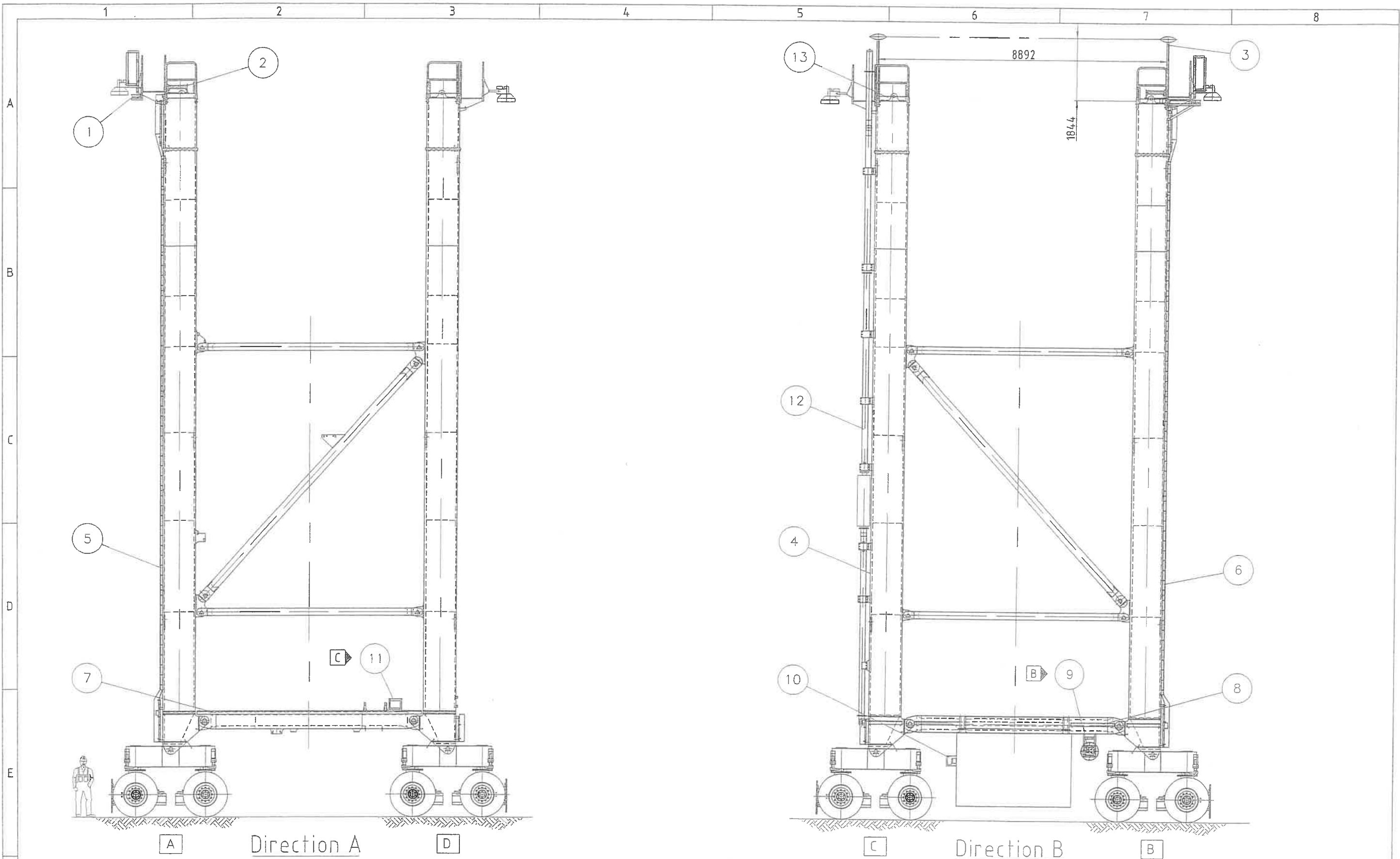


Weight = 1523 kg					
13	1	Limit switch guides	RTG163-XR	3	
12	1	Exhaust pipe	RTG162-XP2	611	
11	1	Cubicle support	RTG161-X11	30	
10	1	Fix. plate for E-st	RTG161-X10	4	
9	1	Shore power rack	RTG161-X9	19	
8	1	Cablew. of sill bea	RTG161-X8	108	
7	1	Cablew. of sill bea	RTG161-X7	91	
6	1	Cablew. of legs B-C	RTG162-X6	43	
5	1	Cablew. of legs A-D	RTG162-X5	40	
4	1	Cable tubing of leg	RTG162-X4	94	
3	2	GPS-Antenna pole	RTG16-X3	25	
2	1	Power track	RTG163-X2	34	
1	1	Cableways of main q	RTG163-X1	421	
--	1	Directions	G818-X-OP1	0	
No	Qty	Description	Specification	Material code	Scope

Appd	Date	File	Department	Size
	22.02.2007	G818-X.dwg		A2
Check	TITLE			Scale
	CABLEWAYS			1:75
Drawn				
T. Lehtonen				
KONECRANES				
	Drawing no.			Rev
	G818-X			C

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REQUIREMENTS for FABRICATION and MATERIALS					
See Drawing Gxxx-OP20 (Gxxx is Number of the Crane)					
C	04.07.07	Cubicle support added	TLe		
B	02.03.07	Shore power rack added	TLe		
A	22.02.07	Approved for production	TLe		
Rev	Date	Description	Drn	Appd	M-film
Included in					

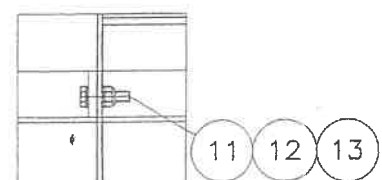
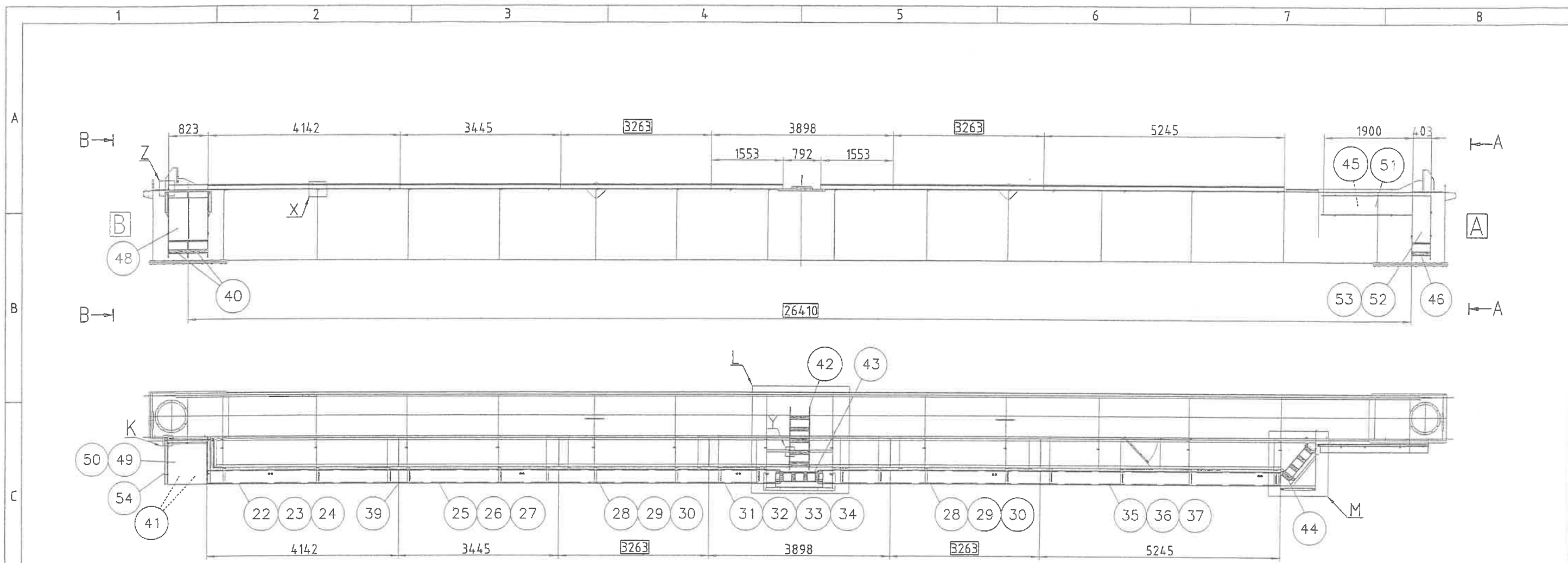


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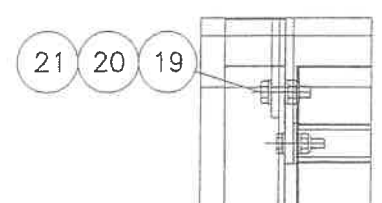
REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

C	04.07.07	Cubic support added	TLe		
B	02.03.07	Shore power rack added	TLe		
A	22.02.07	Approved for production	TLe		
Rev	Date	Description	Drn	Appd	M-Flm
Included in					

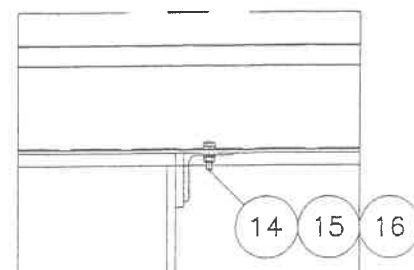
No	Dly	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd			Date	File	Department	Size	
Check			22.02.2007	G818-X-OP1.dwg		A2	
Drawn			TITLE			Scale	
T. Lehtonen			DIRECTIONS			1:75	
KONECRANES							
			Drawing no.			Rev	
			G818-X-OP1			C	



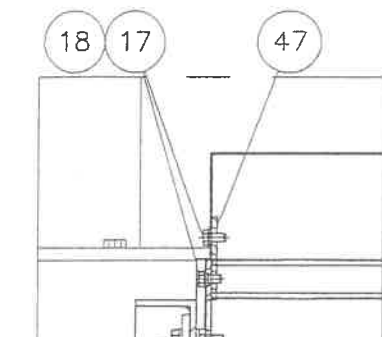
Det.Y 1:5
Cable tray fixing



Det.K 1:5
Cable tray support fixing



Det.X 1:5
Cable channel fixing



Det.Z 1:5
Cable tray cover fixing

Total weight: 421.2 kg

6	1	Cable tray support	RTG163-X1-OP6
5	1	Cable tray covers	RTG163-X1-OP5
4	1	Cable trays	RTG163-X1-OP4
3	1	Cable channels	RTG163-X1-OP3
2	1	Sections	RTG163-X1-OP2
1	1	Details	RTG163-X1-OP1

Partlist continued in OP-drawings

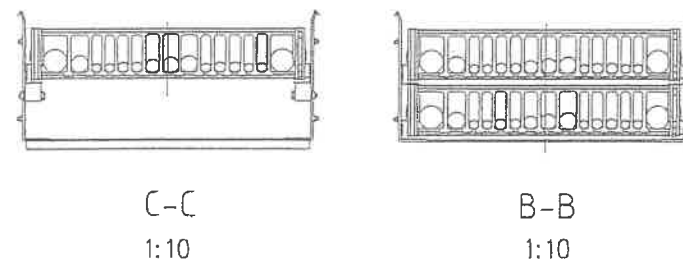
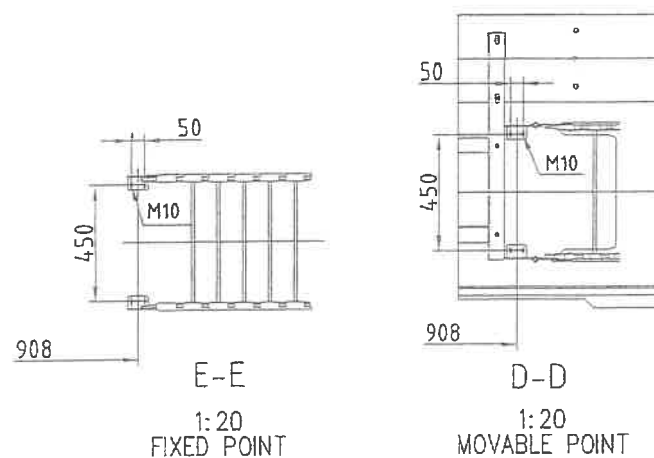
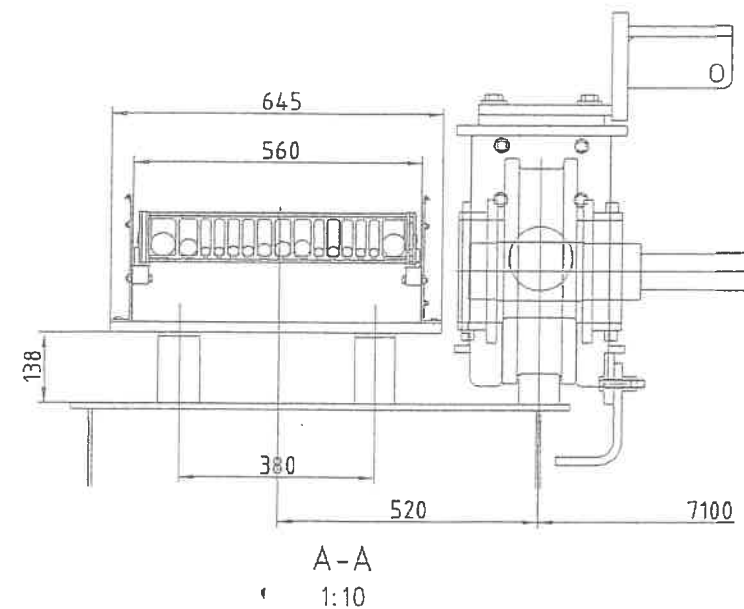
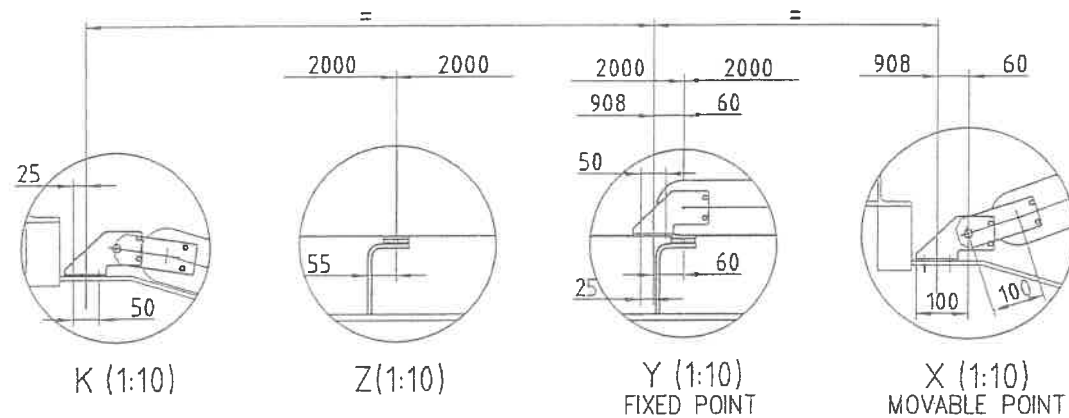
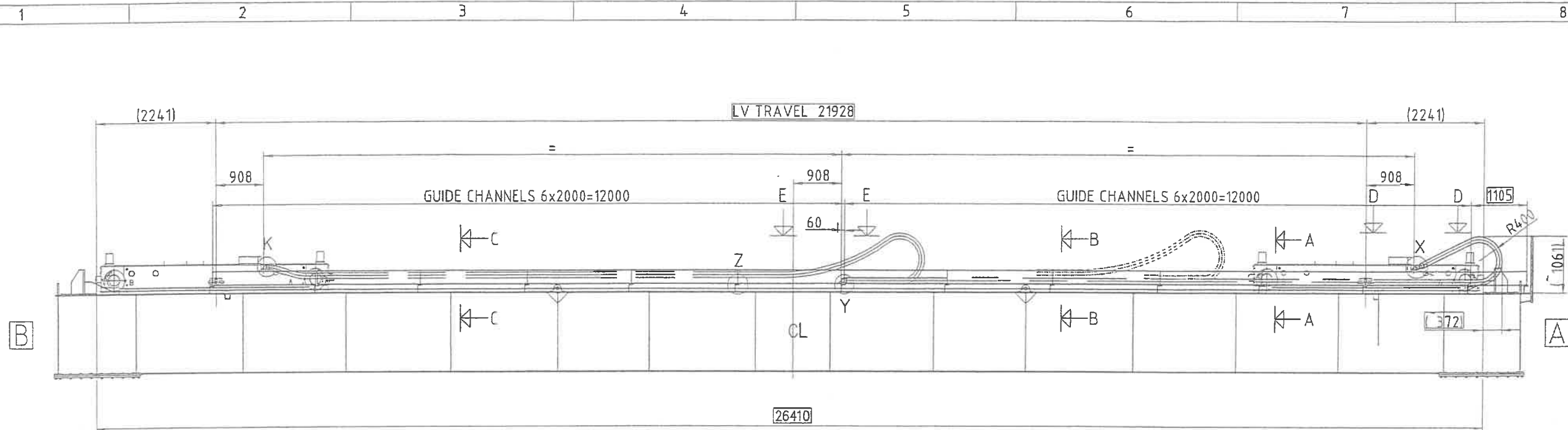
21	12	Washer	13 DIN126-AISI304		0	
20	6	Nut	M12 DIN985-A2-70		0	
19	6	Screw	M12x40 DIN933-A2-70		0	
18	36	Washer	8.4 DIN126-AISI304		0	
17	36	Screw	M8x16 DIN933-A2-70		0	
16	88	Washer	6.4 DIN126-AISI304		0	
15	44	Nut	M6 DIN985-A2-70		0	
14	44	Screw	M6x20 DIN933-A2-70		0	
13	80	Washer	10.5 DIN126-AISI304		0	
12	40	Nut	M10 DIN985-A2-70		0	
11	40	Screw	M10x40 DIN933-A2-70		0	
No	Qty	Description	Specification	Material code	Scope	Sum Weight

Appd. <i>[Signature]</i>	Date 17.1.2007	File RTG163-X1.dwg	Department	Size A2
Check	TITLE CABLEWAYS OF MAIN GIRDER			Scale 1:60
Drawn M.RAIKIO				
KONECRANES	Drawing no. RTG163-X1			Rev A

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A	01.02.07	Approved for production	MRa	
Rev	Date	Description	Drn	Appd
Included in				



OFF CHAIN TYPE SR319SE488400D (screwed skids)

- ×radius 400mm
- ×length 14500mm (145 pitches)
- ×with separators
- ×with stainless steel screws
- ×complete with stainless steel end brackets (AX319KM)
- ×complete with stainless steel guide channel

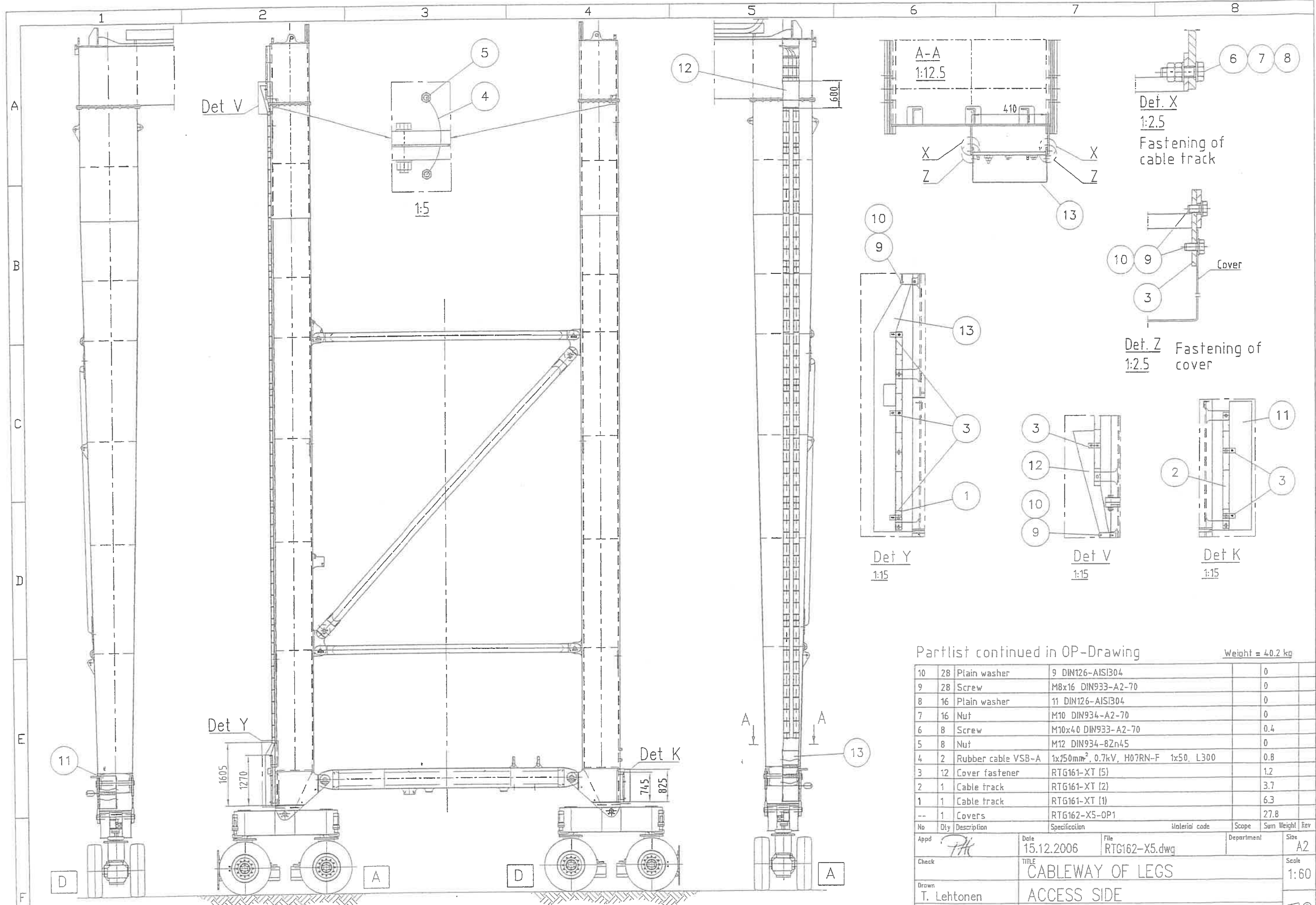
DELIVERY BY KCI

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd			Date	File	Department	Size	
Check			31.01.2007	RTG163-X2.dwg		A2	
Drawn						Scale	
M.RAIKIO						1:60	
KONECRANES							Rev
Drawing no. RTG163-X2							B

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

B	09.02.07	Chain data updated	MRO		
A	01.02.07	Approved for production	MRO		
Rev	Date	Description	Drn	Appd	M-Item
Included in					



Partlist continued in OP-Drawing

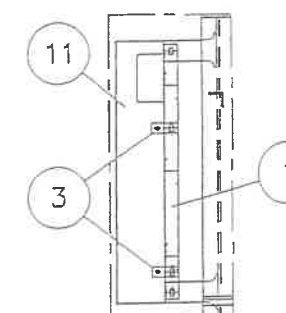
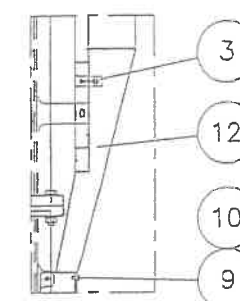
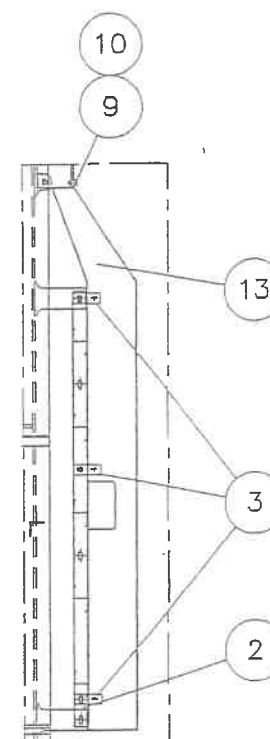
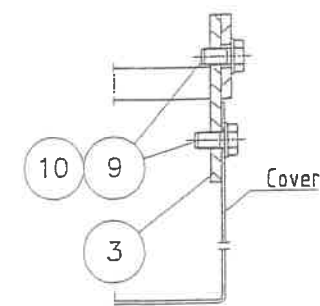
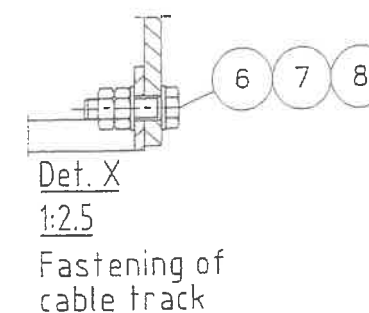
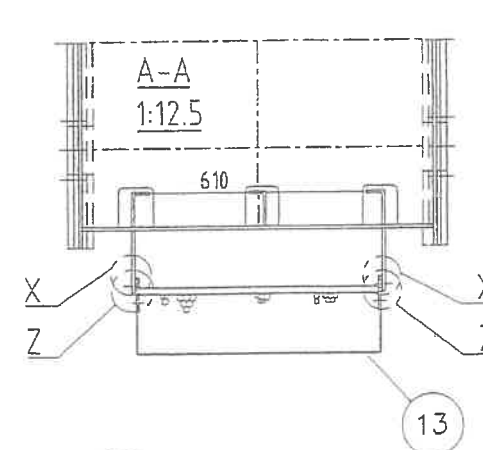
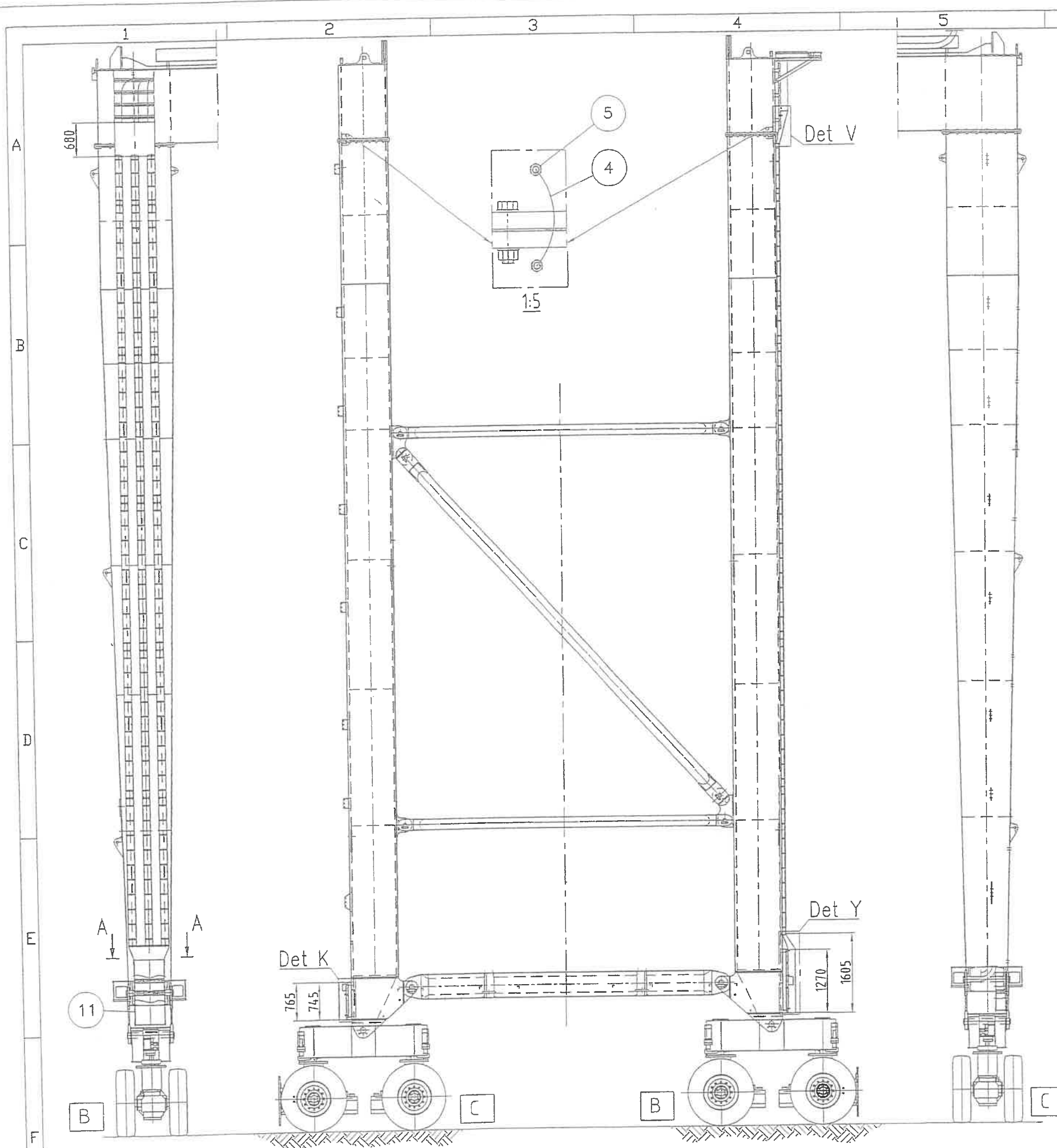
Weight = 40.2 kg

10	28	Plain washer	9 DIN126-AISI304			0	
9	28	Screw	M8x16 DIN933-A2-70			0	
8	16	Plain washer	11 DIN126-AISI304			0	
7	16	Nut	M10 DIN934-A2-70			0	
6	8	Screw	M10x40 DIN933-A2-70			0.4	
5	8	Nut	M12 DIN934-8Zn45			0	
4	2	Rubber cable VSB-A	1x750mm ² , 0.7kV, H07RN-F 1x50, L300			0.8	
3	12	Cover fastener	RTG161-XT (5)			1.2	
2	1	Cable track	RTG161-XT (2)			3.7	
1	1	Cable track	RTG161-XT (1)			6.3	
--	1	Covers	RTG162-X5-OP1			27.8	
No	Dty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd			Date	File	Department	Size	
			15.12.2006	RTG162-X5.dwg		A2	
Check	TITLE					Scale	
	CABLEWAY OF LEGS					1:60	
Drawn	ACCESS SIDE						
	T. Lehtonen						
KONECRANES							Rev
Drawing no.							A
RTG162-X5							

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

Rev	Date	Description	Drn	Appd	U-film
A	15.12.06	Approved for production	TLe	P. Lehtonen	
Included in					



Partlist continued in OP-Drawing

Weight = 42.8 kg

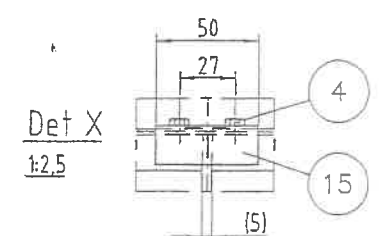
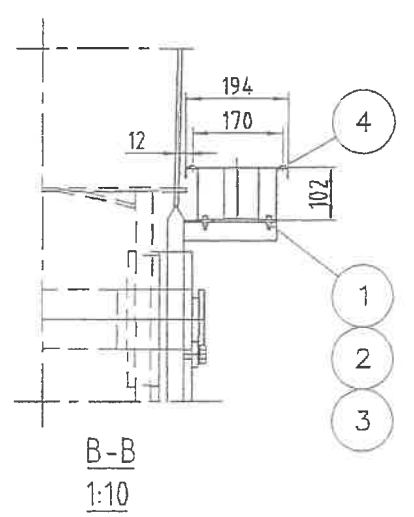
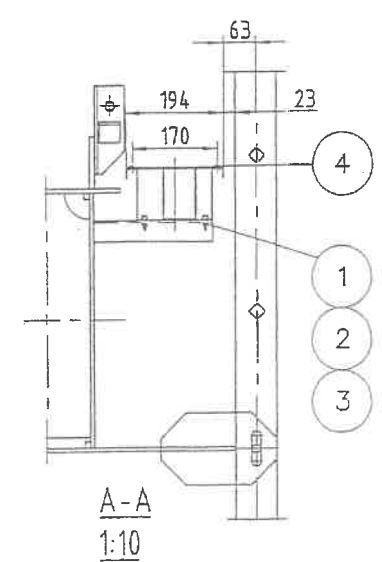
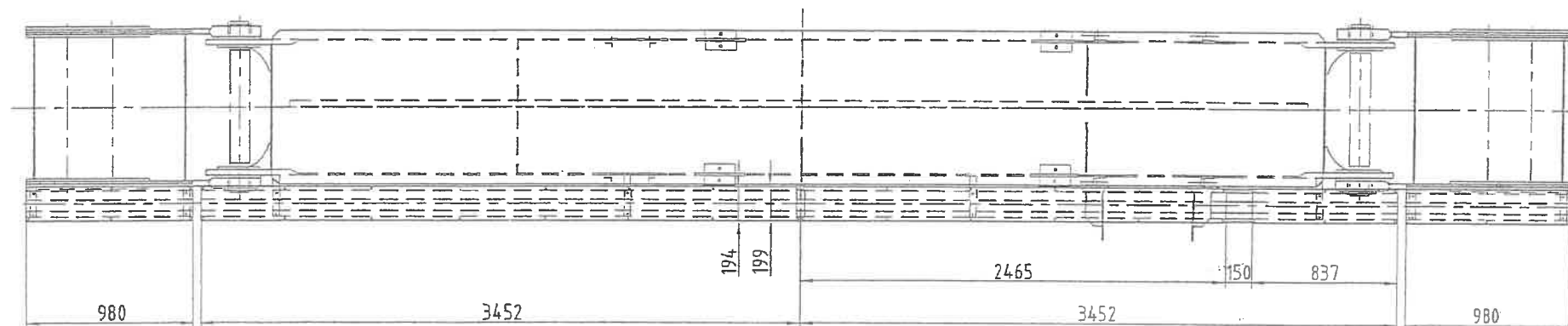
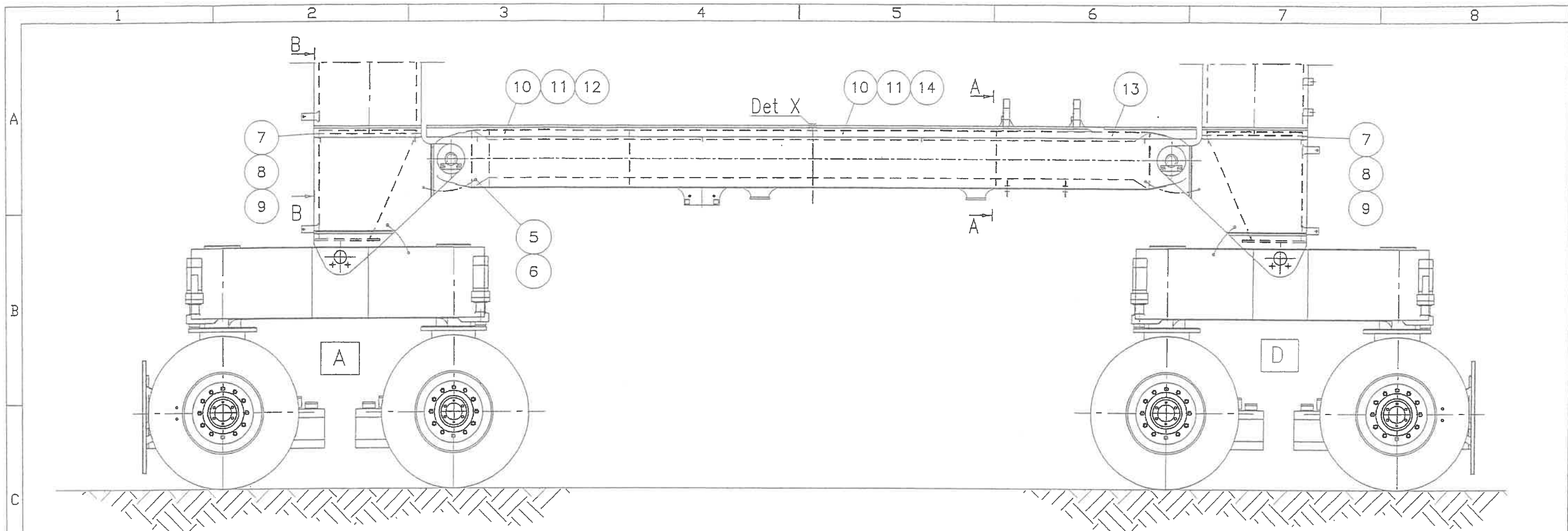
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
10	28	Plain washer	9 DIN126-AISB04			0	
9	28	Screw	M8x16 DIN933-A2-70			0	
8	16	Plain washer	11 DIN126-AISB04			0	
7	16	Nut	M10 DIN934-A2-70			0	
6	8	Screw	M10x40 DIN933-A2-70			0.4	
5	8	Nut	M12 DIN934-8Zn45			0	
4	2	Rubber cable VSB-A	1x150mm ² , 0.7kV, H07RN-F 1x50, L300			0.8	
3	12	Cover fastener	RTG161-XT (5)			1.2	
2	1	Cable track	RTG161-XT (4)			7.4	
1	1	Cable track	RTG161-XT (3)			3	
--	1	Covers	RTG162-X6-OP1			30	

Appd	Check	Drawn	Date	File	Department	Size
		T. Lehtonen	19.12.2006	RTG162-X6.dwg		A2
CABLEWAY OF LEGS						Scale
DIESEL SIDE						1:60
KONECRANES						Rev
Drawing no.						A
RTG162-X6						

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

Rev	Date	Description	Drn	Appd	U-Item
A	19.12.06	Approved for production	TLe	Pik	
Included in					



Total weight 91 kg

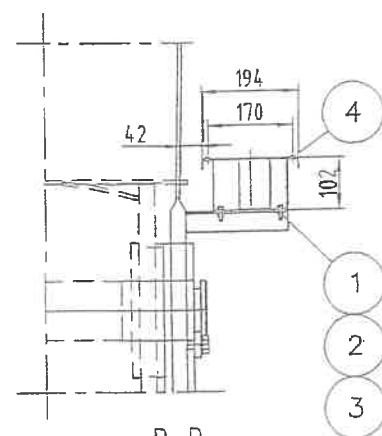
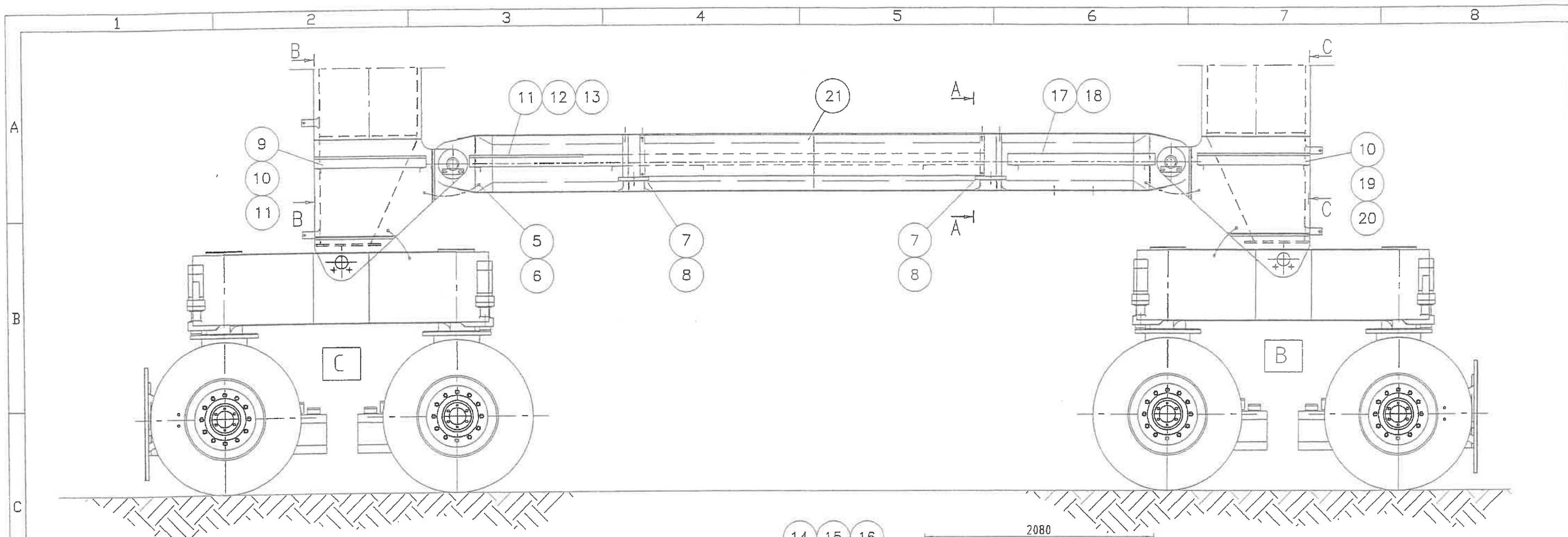
Partlist continued in OP-Drawing

6	16	Nut	M12 DIN934-BZn45			0	
5	4	Rubber cable VSB-A	1x150mm ² , 0.7kV, H07RN-F	1x50, L=500		1.6	
4	48	Self-drilling screw	4.8x16 DIN7504-K-A2			0	
3	16	Nut	M6 DIN985-A4-80			0	
2	32	Washer	6,4 DIN125-AISI316			0	
1	16	Screw	M6x20 DIN912-A4-80			0	
0	1	Cable channels	RTG161-X7-OP1			0	
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd			Date 12.12.2006	File RTG161-X7.dwg	Department	Size A2	
Check	TITLE CABLEWAYS OF SILL BEAM,					Scale 1:25	
Drawn T. Lehtonen	ACCESS SIDE						
KONECRANES	Drawing no. RTG161-X7						Rev A

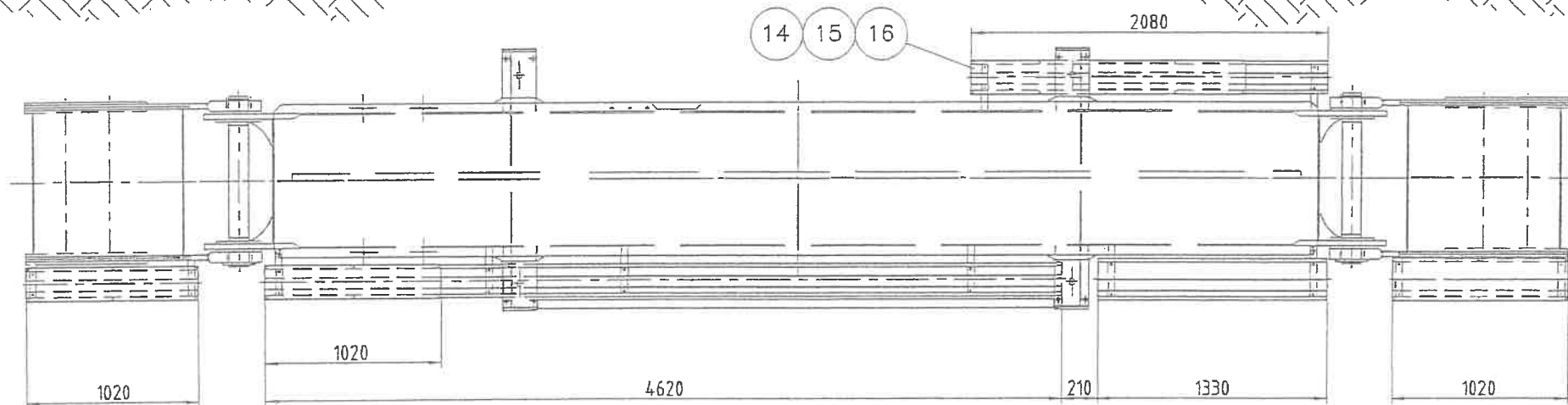
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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

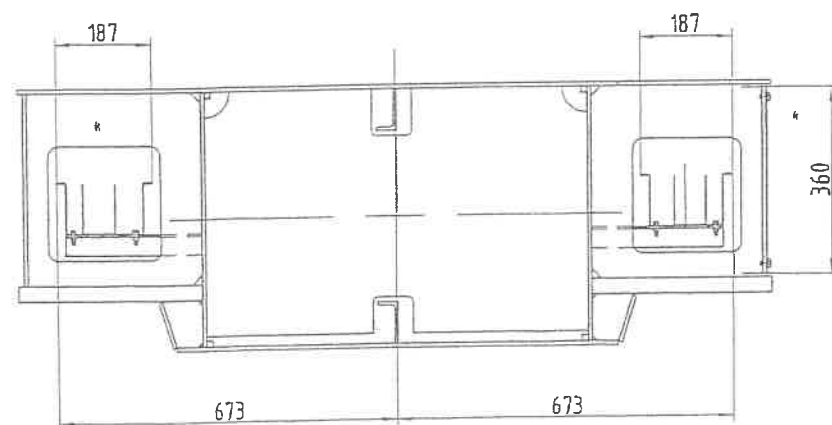
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Rev	Date	Description	Drn	Appd	M-firm	
Included in						



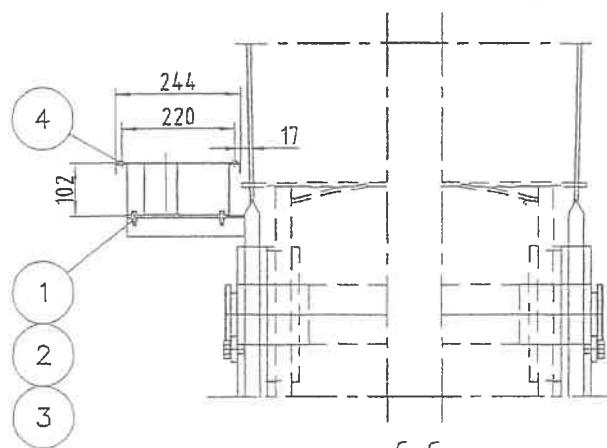
B-B
1:10



Total weight 108 kg



A-A
1:10



C-C
1:10

Partlist continued in OP-Drawing

Weight = 1.6 kg

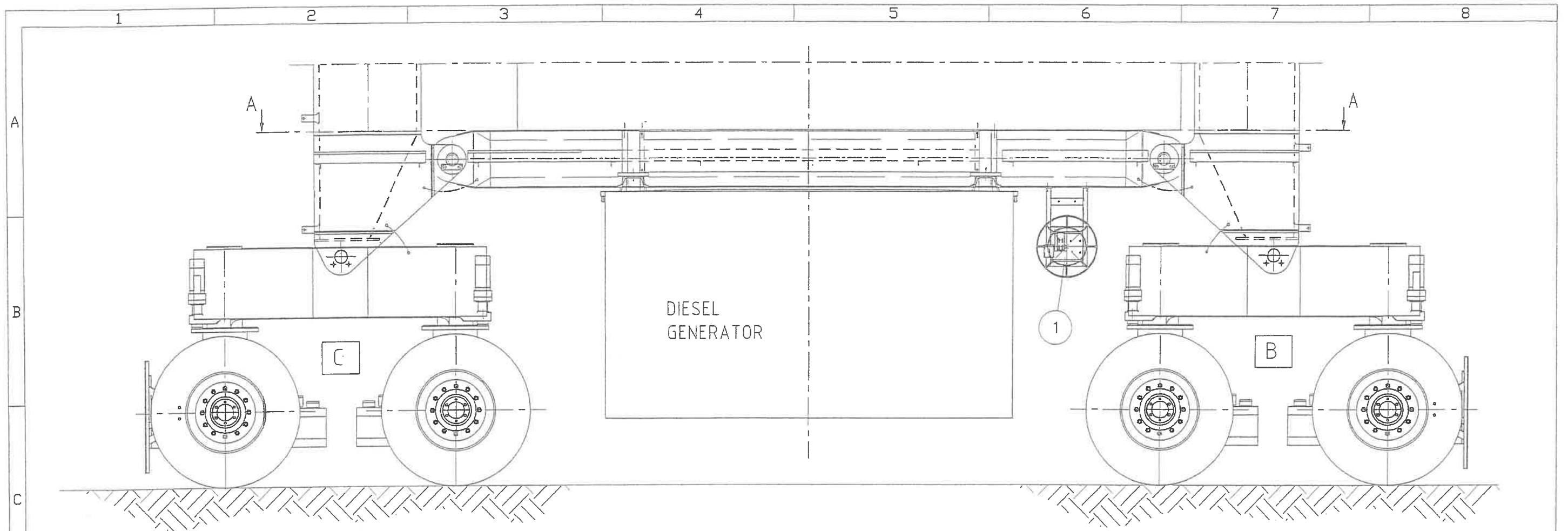
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
8	4	Plain washer	9 DIN126-AISI304			0	
7	4	Screw	M8x16 DIN933-A2-70			0	
6	16	Nut	M12 DIN934-BZn45			0	
5	4	Rubber cable VSB-A	1x150mm ² , 0.7kV, H07RN-F	1x50, L=500		1.6	
4	28	Self-drilling screw	4.8x16 DIN7504-K-A2			0	
3	24	Nut	M6 DIN985-A4-80			0	
2	48	Washer	6,4 DIN125-AISI316			0	
1	24	Screw	M6x20 DIN912-A4-80			0	
--	1	Cable channels	RTG161-X8-OP1			0	

Appd	19.12.2006	File	RTG161-X8.dwg	Department	Size
Check		TITLE	CABLEWAYS OF SILL BEAM.		Scale
Drawn	T. Lehtonen		DIESEL SIDE		1:25
KONECRANES	Drawing no.		RTG161-X8		Rev
					A

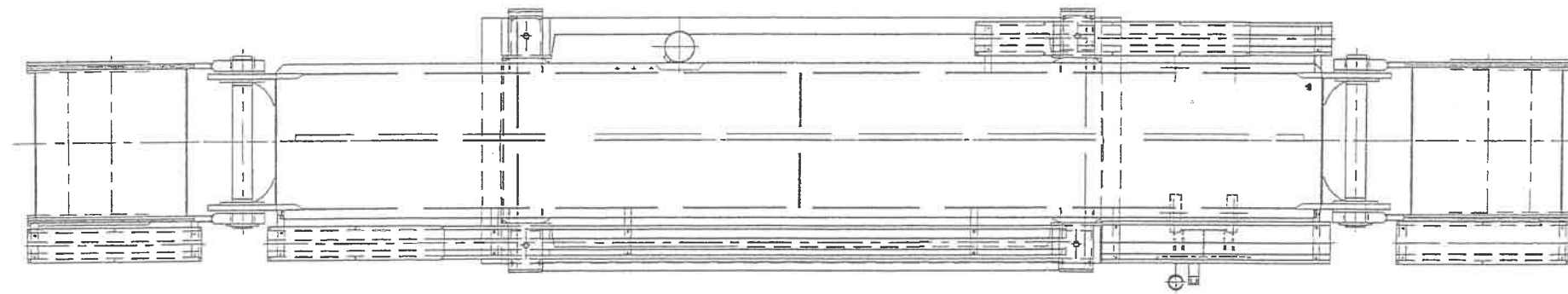
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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A	19.12.06	Approved for production	TLe	
Rev	Date	Description	Drn	Appd
Included in				M-film



SPAN SIDE



A-A

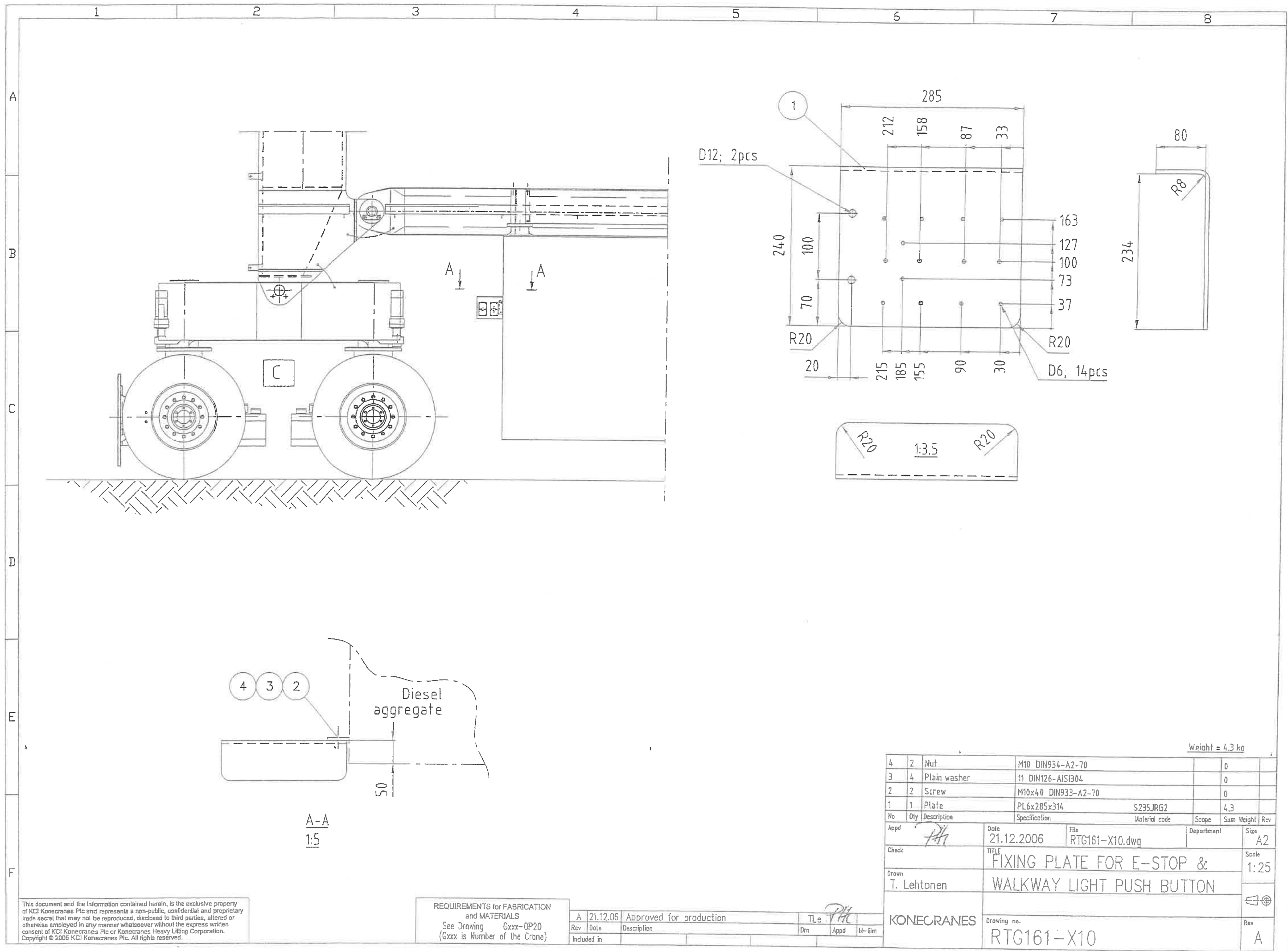
Weight = 18.8 kg

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
1	1	Shore power rack	RTG161-X9A			18.8	
Appd		<i>File</i>	Date 02.03.2007	File RTG161-X9.dwg	Department	Size A2	
Check			TITLE	SHORE POWER RACK		Scale 1:25	
Drawn		T. Lehtonen		ASSEMBLY			
KONECRANES						Drawing no. RTG161-X9	Rev A

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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A	02.03.07	Approved for production	TLe	<i>File</i>	
Rev	Date	Description	Drn	Appd	M-film
Included in					

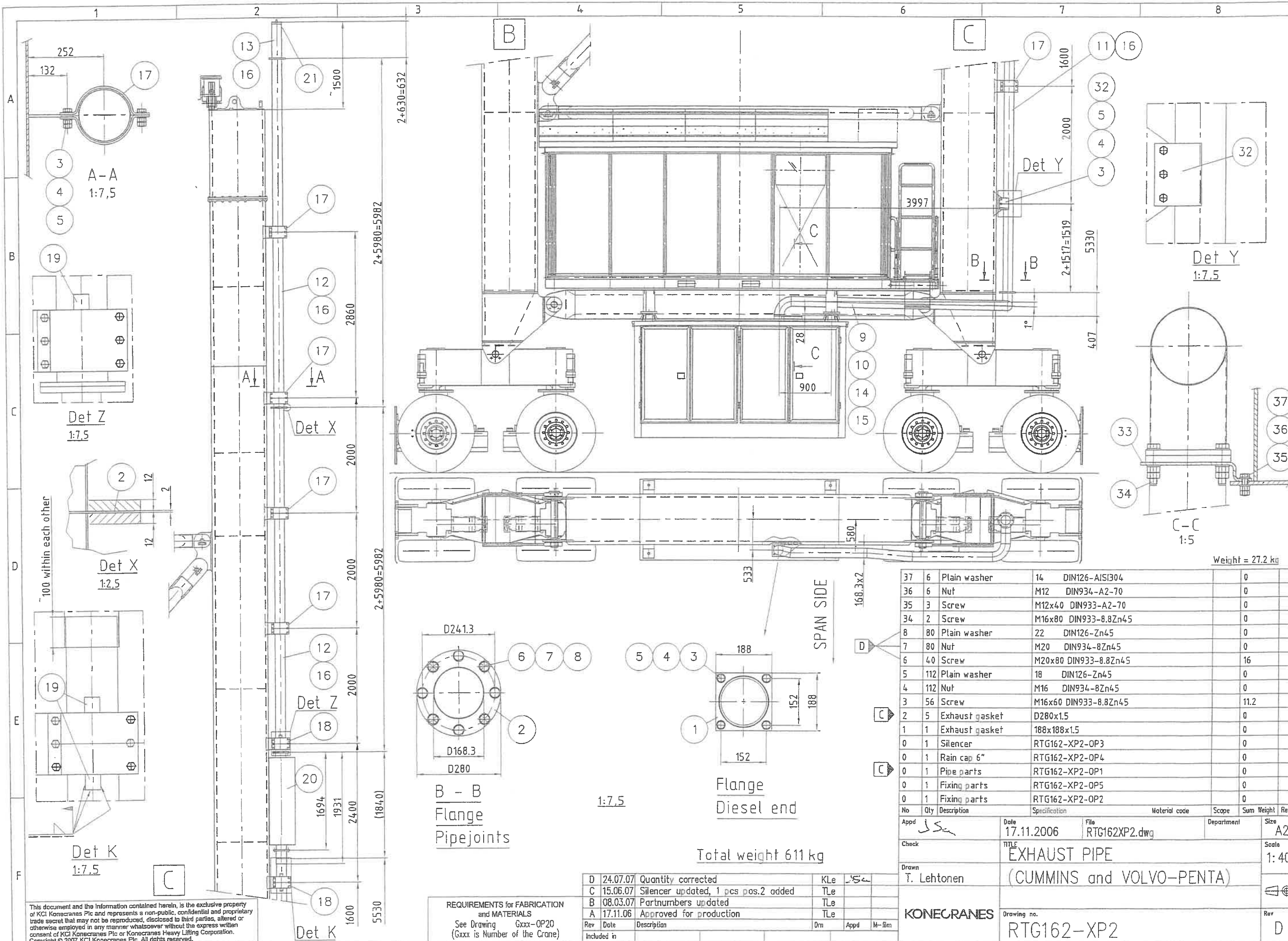


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REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

A	21.12.06	Approved for production	TLe	PH	
Rev	Date	Description	Dn	Appd	M-Item
Included in					

4	2	Nut	M10 DIN934-A2-70		0	
3	4	Plain washer	11 DIN126-AISI304		0	
2	2	Screw	M10x40 DIN933-A2-70		0	
1	1	Plate	PL6x285x314	S235JRG2	4.3	
No	Qty	Description	Specification	Material code	Scope	Sum Weight
Appd	Date		File	Department		Size
	21.12.2006		RTG161-X10.dwg			A2
Check	TITLE					Scale
	FIXING PLATE FOR E-STOP &					1:25
Drawn	T. Lehtonen					
KONECRANES						Rev
Drawing no.						A
RTG161-X10						

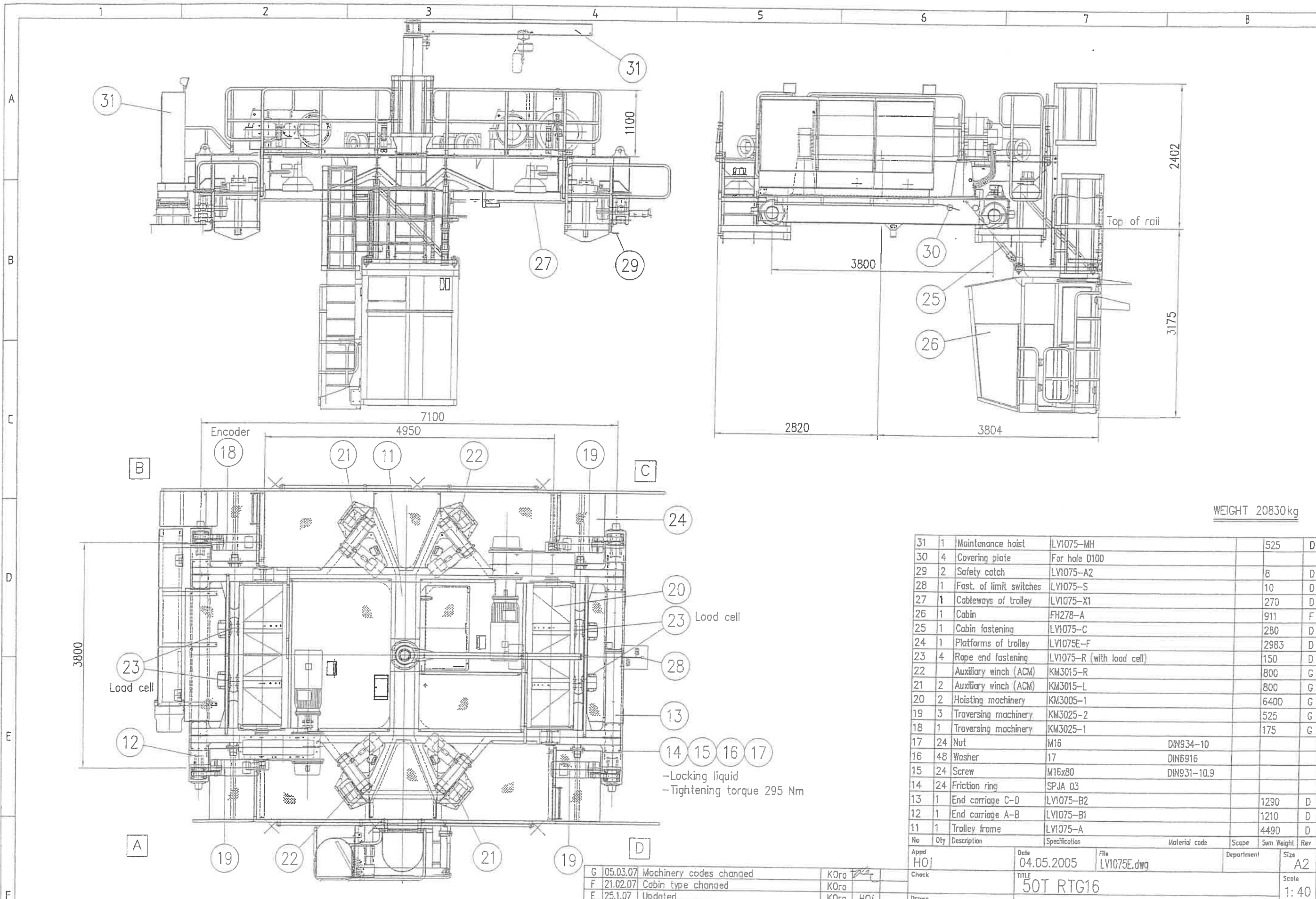


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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

D	24.07.07	Quantity corrected	KLe	Sc	
C	15.06.07	Silencer updated, 1 pcs pos.2 added	TLe		
B	08.03.07	Partnumbers updated	TLe		
A	17.11.06	Approved for production	TLe		
Rev	Date	Description	Dm	Appd	M-firm
Included in					

37	6	Plain washer	14	DIN126-AISI304	0	
36	6	Nut	M12	DIN934-A2-70	0	
35	3	Screw	M12x40	DIN933-A2-70	0	
34	2	Screw	M16x80	DIN933-8.8Zn45	0	
8	80	Plain washer	22	DIN126-Zn45	0	
7	80	Nut	M20	DIN934-8Zn45	0	
6	40	Screw	M20x80	DIN933-8.8Zn45	16	
5	112	Plain washer	18	DIN126-Zn45	0	
4	112	Nut	M16	DIN934-8Zn45	0	
3	56	Screw	M16x60	DIN933-8.8Zn45	11.2	
2	5	Exhaust gasket	D280x15		0	
1	1	Exhaust gasket	188x188x1.5		0	
0	1	Silencer	RTG162-XP2-OP3		0	
0	1	Rain cap 6"	RTG162-XP2-OP4		0	
0	1	Pipe parts	RTG162-XP2-OP1		0	
0	1	Fixing parts	RTG162-XP2-OP5		0	
0	1	Fixing parts	RTG162-XP2-OP2		0	
No	Qty	Description	Specification	Material code	Scope	Sum Weight
Appd	Sc	Date	17.11.2006	File	RTG162XP2.dwg	Department
Check		TITLE	EXHAUST PIPE			Size
Drawn	T. Lehtonen		(CUMMINS and VOLVO-PENTA)			Scale
KONECRANES	Drawing no.	RTG162-XP2				1:40
						Rev
						D



WEIGHT 20830 kg

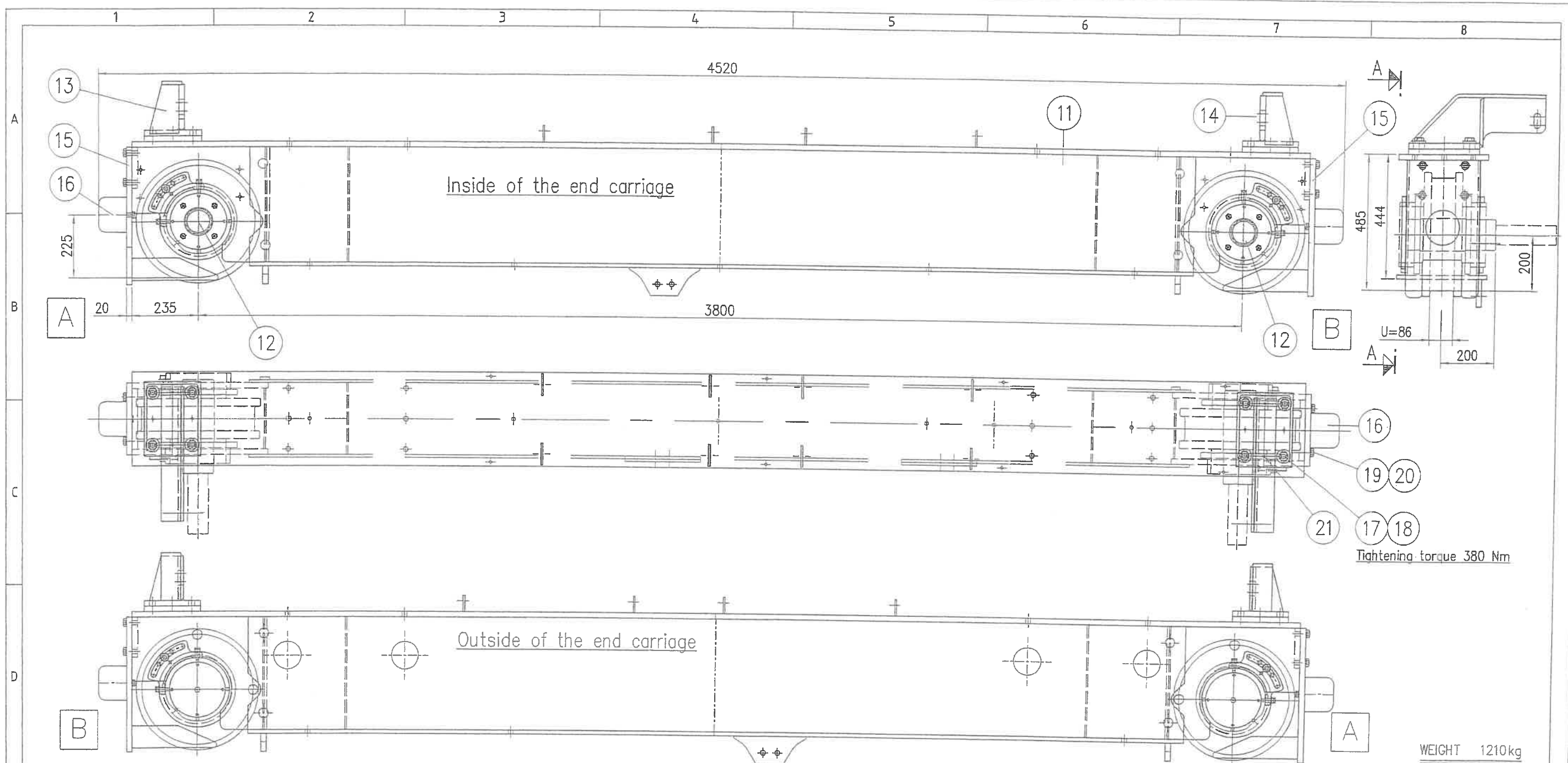
31	1	Maintenance hoist	LV1075-MH		525	D
30	4	Covering plate	For hole D100			
29	2	Safety catch	LV1075-A2		8	D
28	1	Fast. of limit switches	LV1075-S		10	D
27	1	Cableways of trolley	LV1075-X1		270	D
26	1	Cabin	FH278-A		911	F
25	1	Cabin fastening	LV1075-C		280	D
24	1	Platforms of trolley	LV1075-F		2983	D
23	4	Rope end fastening	LV1075-R (with load cell)		150	D
22		Auxiliary winch (ACM)	KM3015-R		800	G
21	2	Auxiliary winch (ACM)	KM3015-L		800	G
20	2	Hoisting machinery	KM3005-1		6400	G
19	3	Traversing machinery	KM3025-2		525	G
18	1	Traversing machinery	KM3025-1		175	G
17	24	Nut	M16	DIN934-10		
16	48	Washer	17	DIN6916		
15	24	Screw	M16x80	DIN931-10.9		
14	24	Friction ring	SPJA 03			
13	1	End carriage C-D	LV1075-B2		1290	D
12	1	End carriage A-B	LV1075-B1		1210	D
11	1	Trolley frame	LV1075-A		4490	D

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd	HOI						
Check							
Drawn	KOra	/JPit					
KONECRANES							
Drawing no. LV1075E							
							Rev G

G	05.03.07	Machinery codes changed	KOra	
F	21.02.07	Cabin type changed	KOra	
E	25.1.07	Updated	KOra	HOI
D	23.01.07	Updated	KOra	HOI
C	07.10.05	Dwg. no. of platforms corrected	KOra	HOI
B	22.09.05	Updated	KOra	HOI
A	04.05.05	Approved for production	JPit	HOI
Rev	Date	Description	Drn	Appd
Included in				

REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

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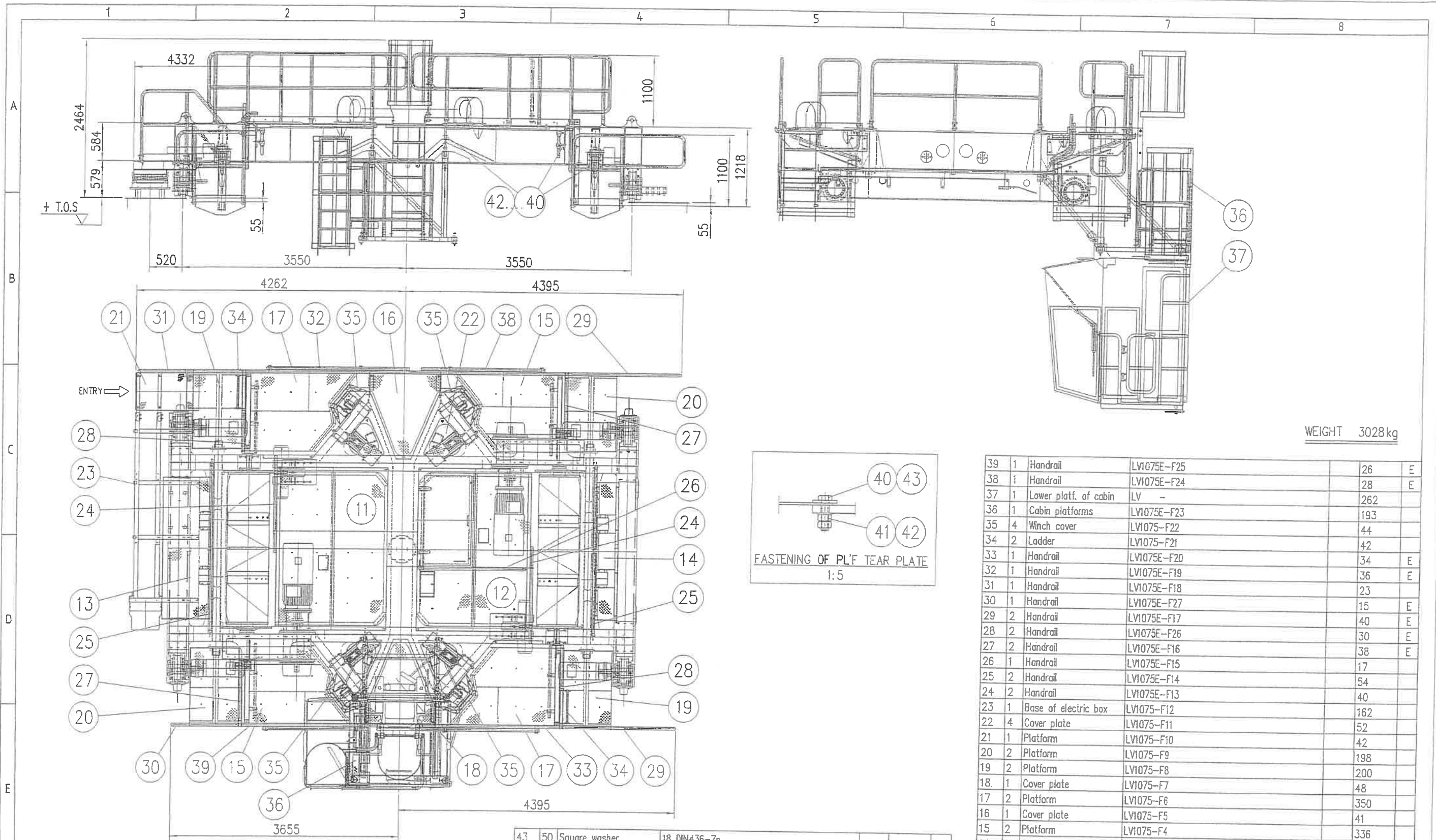


No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
21	4	Taper pin	8x65 DIN258	Zn45			
20	8	Washer	18 DIN126	Zn45			
19	8	Screw	M16x50 DIN933	8.8 Zn45			
18	8	Washer	21 DIN6340	Zn45			
17	8	Screw	M20x45 DIN933	8.8 Zn45			
16	2	Rubber end buffer	D125x105				
15	2	End plate	LV1075-EP			46	
14	1	Torque arm	LV1075-MT-R			22	
13	1	Torque arm	LV1075-MT-L			22	
12	2	Driving wheel D400	LHJ4-101-2-U86 (GEAR GM7)			366	
11	1	Welding of end carriage	LV1075-B1B			750	
---	1	Machining of end carr.	LV1075-B1A			---	
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd	HOj	Date	08.12.04	File	LV1075-B1.dwg	Department	Size A2
Check	JPit	TITLE					Scale 1:10
Drawn	KOra	/LHyt	END CARRIAGE A-B				Rev F
KONECRANES				Drawing no.	LV1075-B1		

Rev	Date	Description	Drn	Appd	M-Frm
F	30.05.07	Cable tray supports updated	AHov		
E	15.01.07	Torque arms updated	KOra	HOj	
D	14.12.06	Updated	KOra	HOj	
C	16.09.05	Updated	KOra	HOj	
B	24.08.05	Driving wheels and torque arms changed	KOra	HOj	
A	15.04.05	Approved for production	JPit	HOj	

REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

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WEIGHT 3028kg

43	50	Square washer	18 DIN436-Zn			
42	100	Washer	M16 DIN125-Zn			
41	200	Nut	M16 DIN934-8 Zn45			
40	100	Screw	M16x60 DIN933-8.8Zn45			

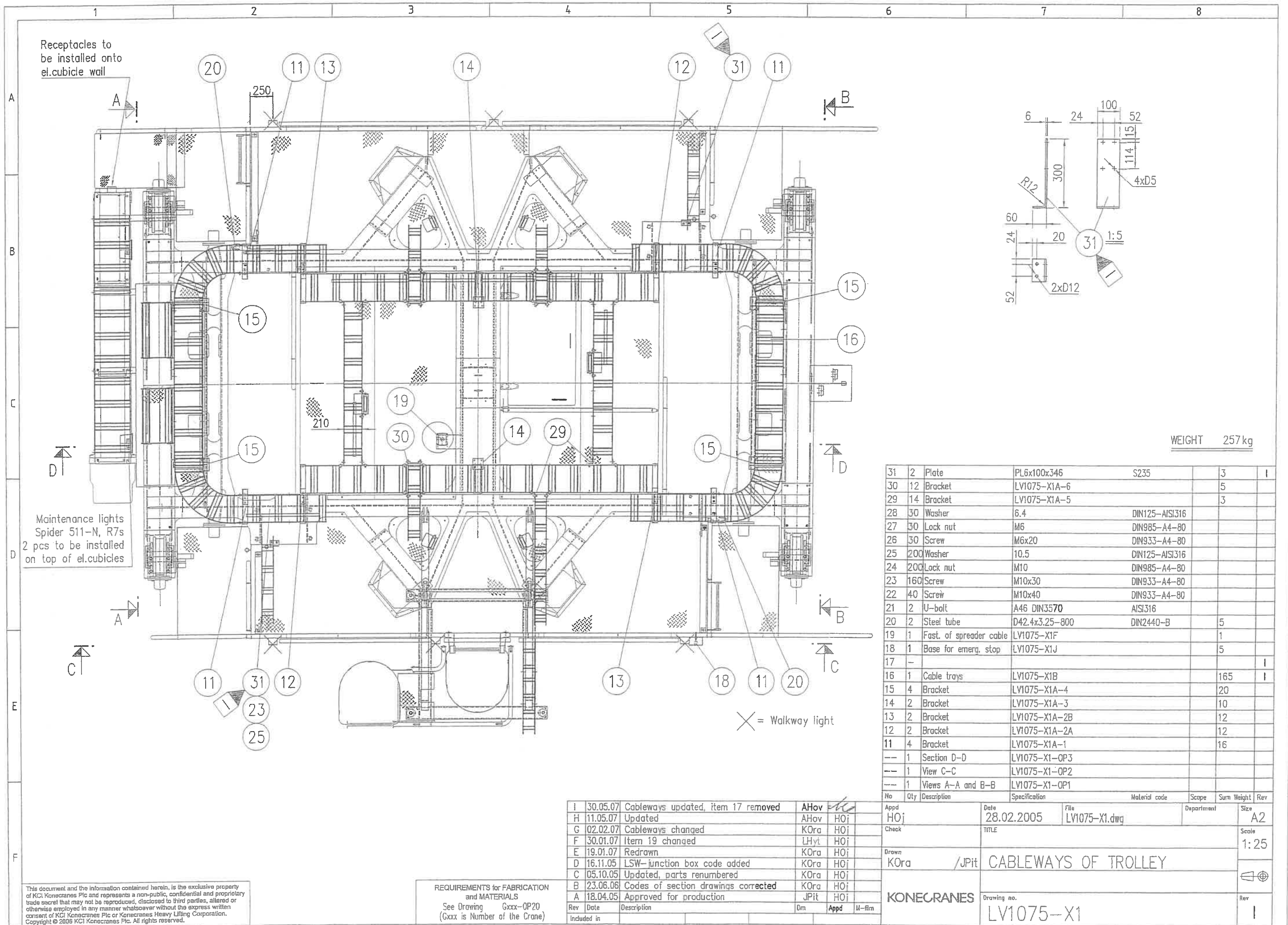
39	1	Handrail	LV1075E-F25	26	E
38	1	Handrail	LV1075E-F24	28	E
37	1	Lower platf. of cabin	LV	262	
36	1	Cabin platforms	LV1075E-F23	193	
35	4	Winch cover	LV1075E-F22	44	
34	2	Ladder	LV1075E-F21	42	
33	1	Handrail	LV1075E-F20	34	E
32	1	Handrail	LV1075E-F19	36	E
31	1	Handrail	LV1075E-F18	23	
30	1	Handrail	LV1075E-F27	15	E
29	2	Handrail	LV1075E-F17	40	E
28	2	Handrail	LV1075E-F26	30	E
27	2	Handrail	LV1075E-F16	38	E
26	1	Handrail	LV1075E-F15	17	
25	2	Handrail	LV1075E-F14	54	
24	2	Handrail	LV1075E-F13	40	
23	1	Base of electric box	LV1075E-F12	162	
22	4	Cover plate	LV1075E-F11	52	
21	1	Platform	LV1075E-F10	42	
20	2	Platform	LV1075E-F9	198	
19	2	Platform	LV1075E-F8	200	
18	1	Cover plate	LV1075E-F7	48	
17	2	Platform	LV1075E-F6	350	
16	1	Cover plate	LV1075E-F5	41	
15	2	Platform	LV1075E-F4	336	
14	1	Cover plate	LV1075E-F28	42	E
13	1	Cover plate	LV1075E-F3	87	E
12	1	Platform	LV1075E-F2	313	E
11	1	Platform	LV1075E-F1	235	E

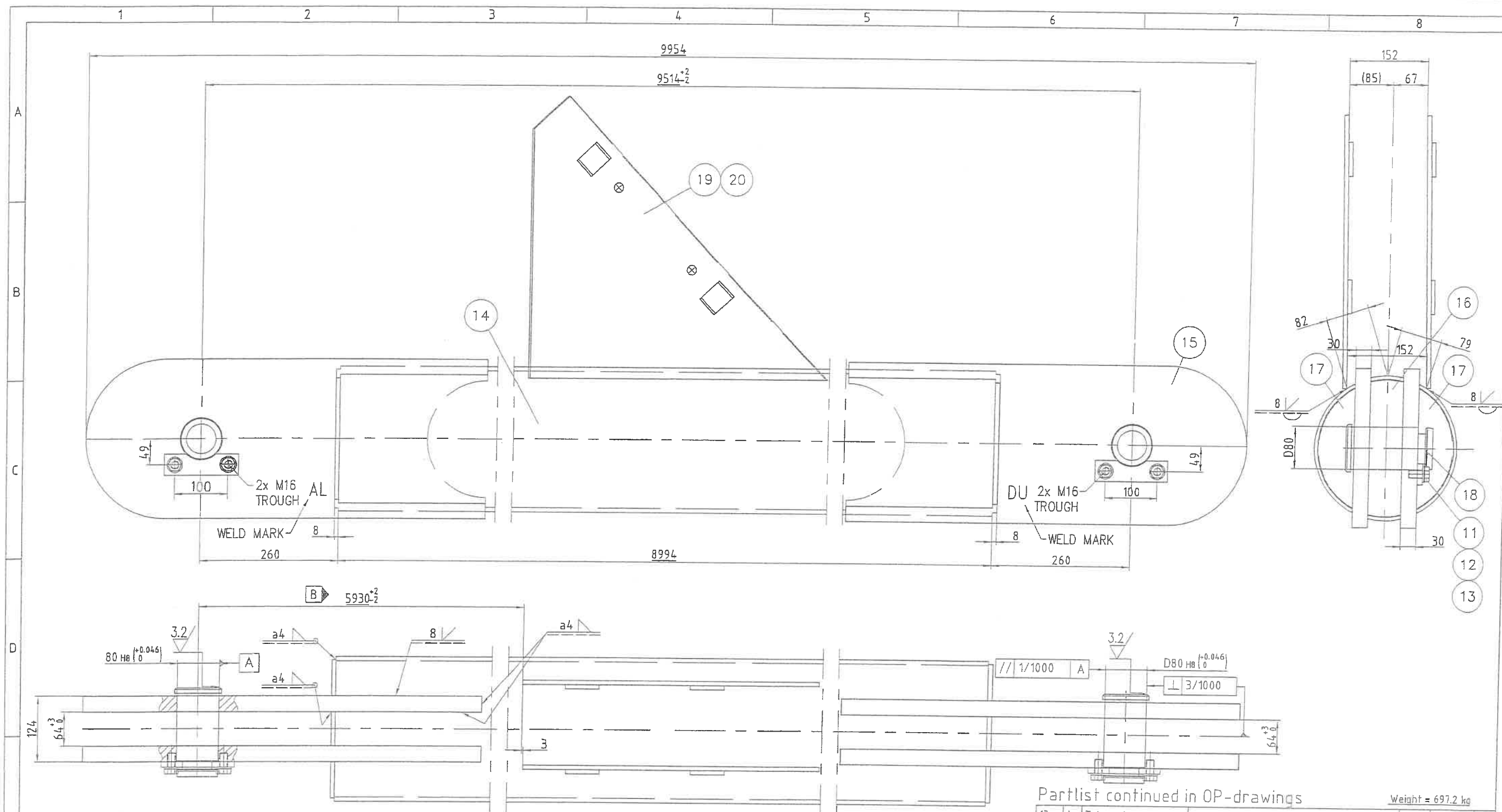
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd	HSi	Date	04.05.2005	File	LV1075E-F.dwg	Department	Size
Check	HNe	TITLE	50T RTG16				Scale
Drawn	KOra	/MVuo	TROLLEY PLATFORMS				1:40
KONECRANES							Drawing no.
							LV1075E-F
							Rev
							F

F	16.07.07	Updated	LHyt	JSa	
E	30.01.07	Items 11,12 rev., parts ren., weights rev.	LHyt	JSa	
D	19.01.07	Dwg. updated, partlist updated	LHyt	HSi	
C	07.02.06	Parts 19-21,29-30 changed; 43 added	KOra	HSi	
B	22.09.05	Updated	KOra	HSi	
A	04.05.05	Approved for production	JPit	HSi	
Rev	Date	Description	Drn	Appd	M-- film
Included in					

REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

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Partlist continued in OP-drawings

Weight = 697.2 kg

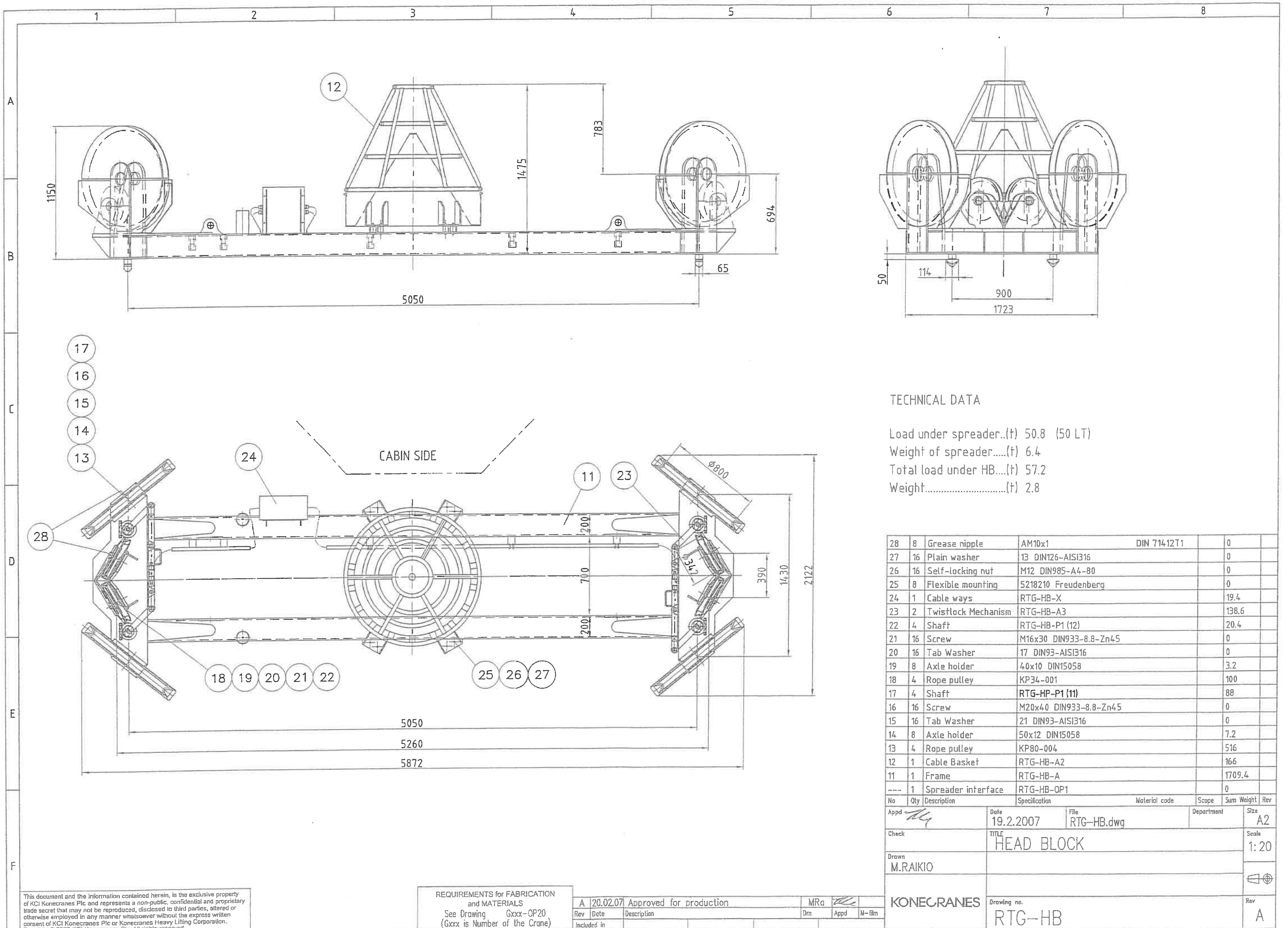
13	4	Tab washer	17	DIN93-AISI304		0	
12	4	Screw		M16x30 DIN933-A2-70		0	
11	2	Axle holder	40x10	DIN15058	HDG	0	
B	1	Jig Measurements	RTG161-C4A-OP5			0	
---	1	Fixing of eye plate	RTG161-C4A-OP4			0	
B	1	Fastener	RTG161-C4A-OP3			20.4	
---	1	Axle	RTG161-C4A-OP2			12.8	
---	1	Parts 14-17	RTG161-C4A-OP1			664	

No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd		20.12.2006	File	RTG161-C4A.dwg	Department	Size	
Check			TITLE	DIAGONAL ROD		Scale	
Drawn		T. Lehtonen				1:5	
KONECRANES						Drawing no.	
						RTG161-C4A	
						Rev	B

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REQUIREMENTS for FABRICATION and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)

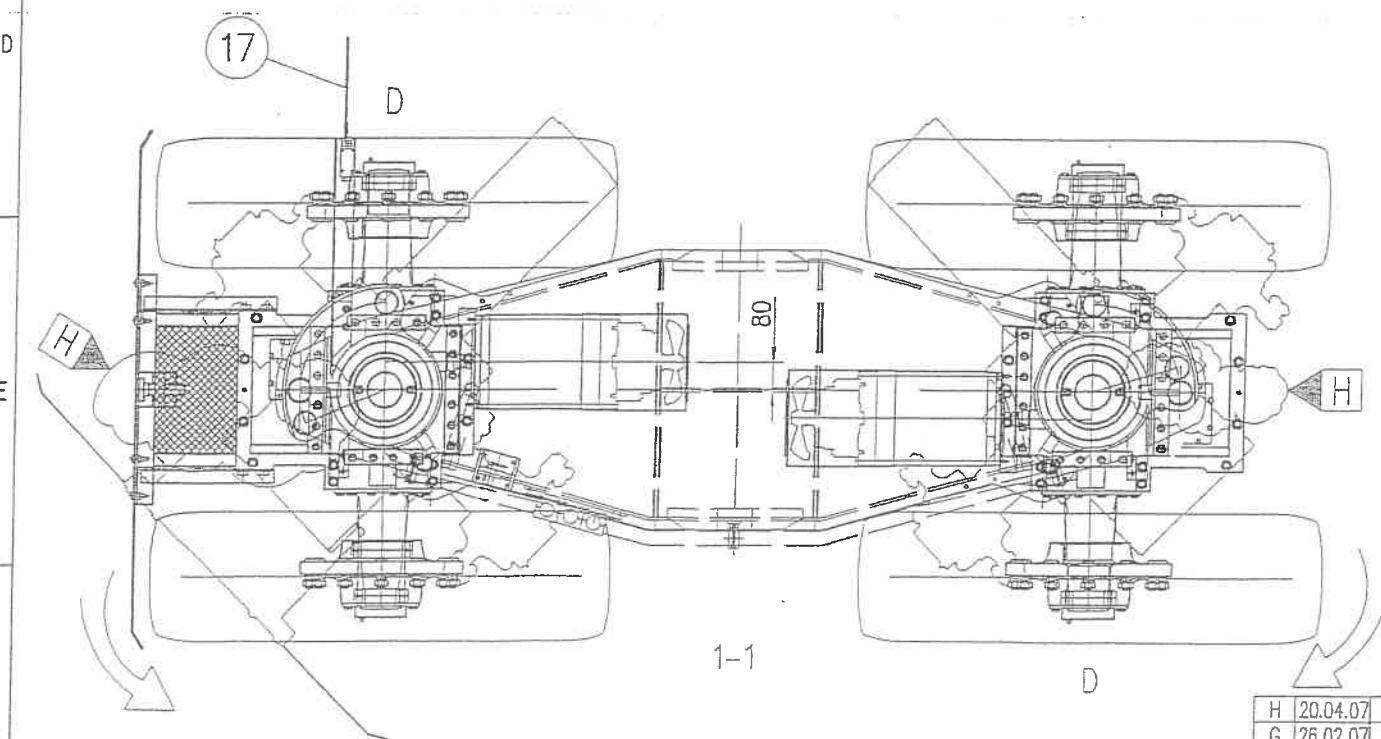
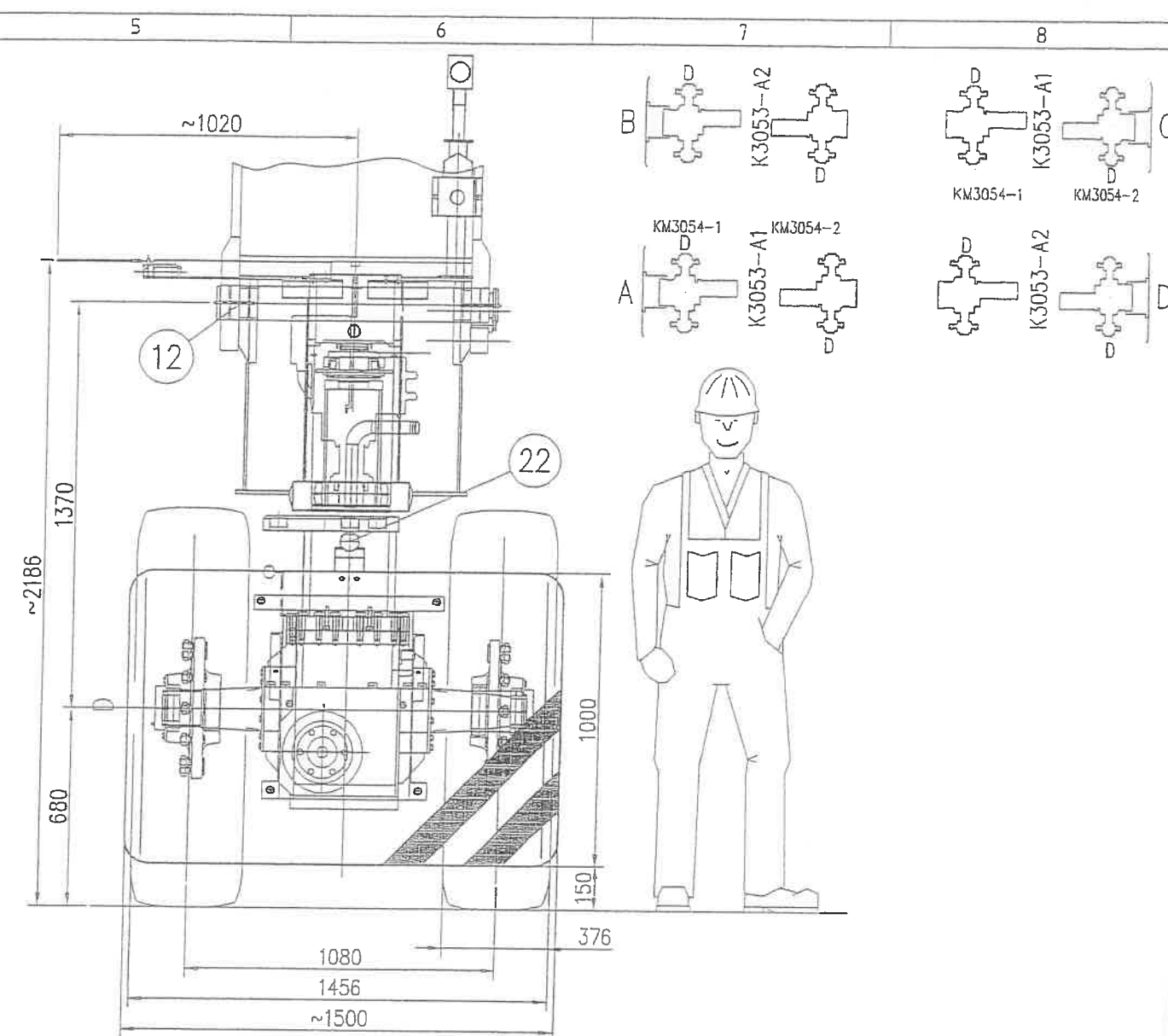
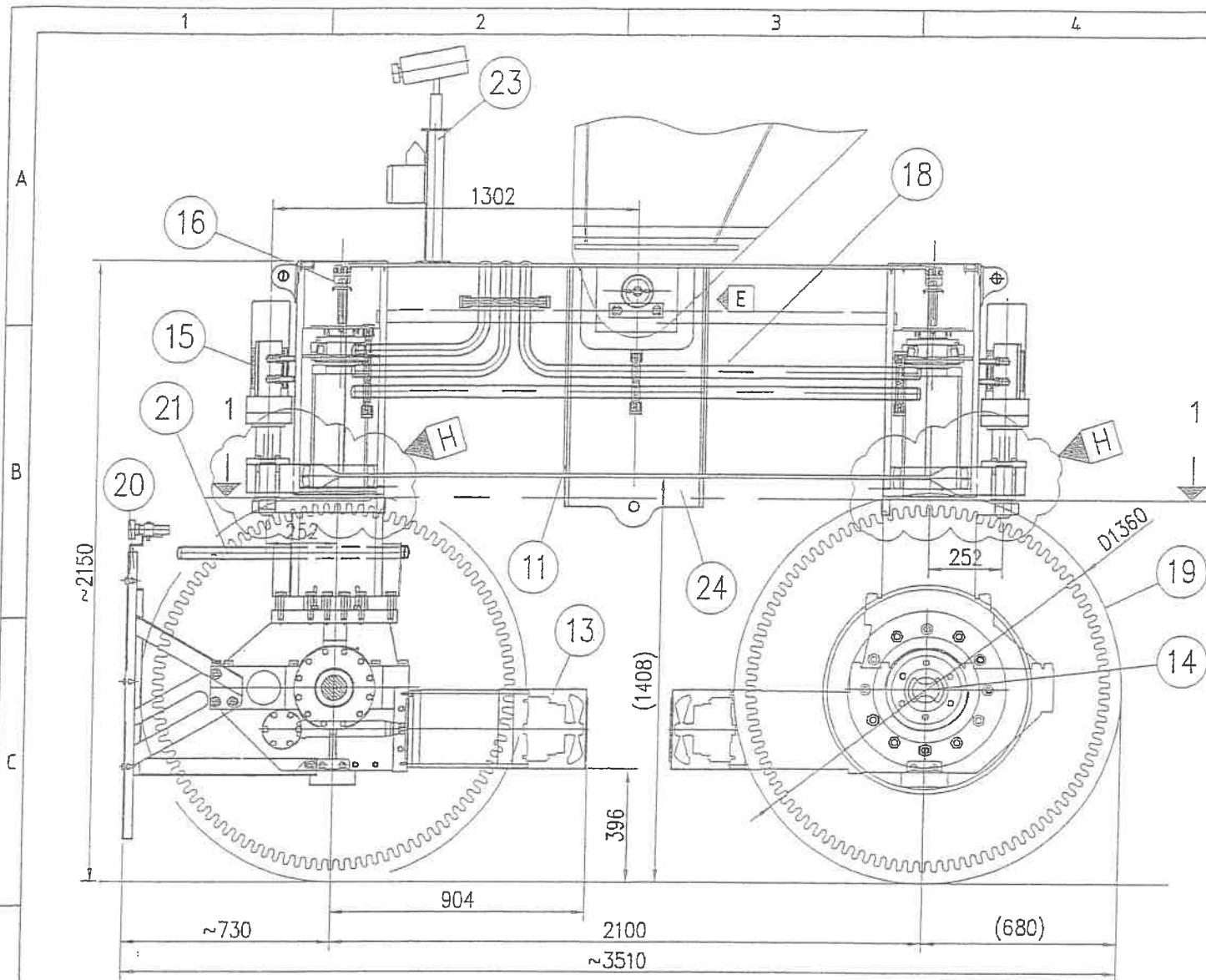
B	28.03.07	Updated	TLe	
A	20.12.06	Approved for production	TLe	
Rev	Date	Description	Drn	Appd
Included in				



TECHNICAL DATA

Load under spreader...(t) 50.8 (50 LT)
Weight of spreader.....(t) 6.4
Total load under HB....(t) 57.2
Weight.....(t) 2.8

28	8	Grease nipple	AM10x1	DIN 71412T1	0		
27	16	Plain washer	13 DIN126-AISI316		0		
26	16	Self-locking nut	M12 DIN985-A4-80		0		
25	8	Flexible mounting	5218210 Freudenberg		0		
24	1	Cable ways	RTG-HB-X		19.4		
23	2	Twistlock Mechanism	RTG-HB-A3		138.6		
22	4	Shaft	RTG-HB-P1 (12)		20.4		
21	16	Screw	M16x30 DIN933-8.8-Zn45		0		
20	16	Tab Washer	17 DIN93-AISI316		0		
19	8	Axle holder	40x10 DIN15058		3.2		
18	4	Rope pulley	KP34-001		100		
17	4	Shaft	RTG-HP-P1 (11)		88		
16	16	Screw	M20x40 DIN933-8.8-Zn45		0		
15	16	Tab Washer	21 DIN93-AISI316		0		
14	8	Axle holder	50x12 DIN15058		7.2		
13	4	Rope pulley	KP80-004		516		
12	1	Cable Basket	RTG-HB-A2		166		
11	1	Frame	RTG-HB-A		1709.4		
---	1	Spreader interface	RTG-HB-OP1		0		
No	Qty	Description	Specification	Material code	Scope	Sum Weight	Rev
Appd	19.2.2007	File	RTG-HB.dwg	Department	Size		
Check		TITLE	HEAD BLOCK		Scale		
Drawn					1:20		
M.RAIKIO							
KONECRANES							
Drawing no.							
RTG-HB							
Rev							
A							



Rev	Date	Description	Drn	Appd	M-Bm
H	20.04.07	Items 11, 13 and 14 updated	HNi		
G	26.02.07	Tie-down eye plate added	HNi		
F	20.02.07	Pos.11 updated	HNi		
E	25.01.07	Plate updated	HNi		
D	12.01.07	Bogies updated	HNi		
C	20.12.06	Bogies updated	HNi		

Weight = 5332 kg					
No	Qty	Description	Specification	Material code	Scope
24	1	Tie-down eye plate.	KM3053-TDE		
23	1	Base	KM3053-X6		
22	1	Ultrasonic	KM3053-X5		
21	1	Cable tubes	KM3053-X4-1		
20	1	Wheel fender	KM3053-S1		
19	4	RTG-wheel	KM3050-W1		
18	1	Cable tubes	KM3053-X3-1		
17	1	Ass'y of sensors	KM3053-X2-1		
16	2	Ass'y of encoder	KM3053-X1		
15	2	Pivot locking devic	KM3053-L		
14	1	Gantry travel machi	KM3054-2		H
13	1	Gantry travel machi	KM3054-1		
12	1	Joint of bogie	KM3050-J		
11	1	Bogie frame	KM3053-B-1		
No	Qty	Description	Specification	Material code	Scope
Appd	HSi	Date	15.03.2006	File	KM3053-A1.dwg
Check	HNi	Department		Size	A2
Drawn	LHyt / MVuo	Scale	1:15	Rev	H
KONECRANES					
Drawing no. KM3053-A1					

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STRUCTURAL DETAILS
References by squares [X]
to drawing D6660

REQUIREMENTS for FABRICATION
and MATERIALS
See Drawing Gxxx-OP20
(Gxxx is Number of the Crane)