

PONDERAY NEWSPRINT COMPANY
INTER-OFFICE MEMORANDUM

TO: Bruce Nunn
FROM: Warren Weber *WW*
DATE: December 7, 1989
SUBJECT: Hedemora visit for decker tuning

Jack Barrett and I discussed rework of the deckers and scheduling people from Sweden. Jack is having some difficulty getting people from Sweden here before the holidays as they want to visit several mills when they come. Also, Jack feels their recommendation will be to install the apron extensions. These parts are in fabrication now and will ship about the first week in January.

If we can do one decker at a time (Jack's estimate is 12 hours per decker) this would take three days. We could schedule the overseas people to be on site when we begin the work. This will give them the chance to see "before and after" conditions.

Following this work, Hedemora will stay and help tune the system which means we will need to run for a week or so after the work (apron extension installation) is complete. I mention this because we are planning a boiler outage in January and will need to coordinate boiler outage/decker tuning so they don't conflict.

All of the Hedemora work is at their expense.

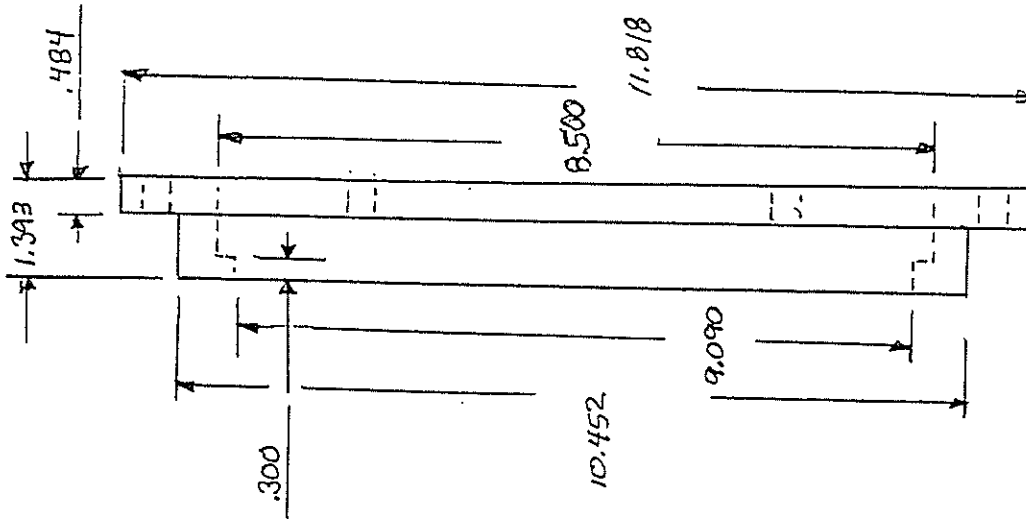
Hedemora and Coen are waiting on us to decide on a date for the boiler outage. We need to discuss this with maintenance and schedule a date.

cc: Mark Kobylarz
File: 204-2820 SLF Disc Filter
204-2320 TMP Disc Filter Line A
204-2330 TMP Disc Filter Line B

13 702 SQUARE FLAT 5 SQUARE
 12 381 SQUARE FLAT 5 SQUARE
 10 300 SQUARE FLAT 5 SQUARE
 8 300 SQUARE FLAT 5 SQUARE
 6 300 SQUARE FLAT 5 SQUARE
 4 300 SQUARE FLAT 5 SQUARE
 2 300 SQUARE FLAT 5 SQUARE
 1 300 SQUARE FLAT 5 SQUARE

Extruded - Brand

11.062 Hole Dia
 6 ~ .367 Hole

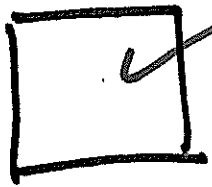


MAT- STenless
 1-4-95 78NU

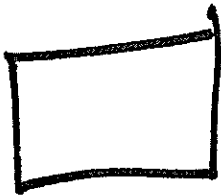
Ex #5 2108130
 2042820
 2042820
 2042830

Packing Ring

INSTRUCTION BOOK



MAINT. MANUAL
OR OTHER INFO IN
BOOKCASE



See File # _____
FOR DRAWINGS AND
INFORMATION

BLANCE ELECTRIC MOTOR PARTS LIST
1ST. PO. NO. 1008212 DATE 10/27/88 SALES ORDER NUMBER 13MAF41776 01 PAGE 1

OLD TO JL GIBSON LAKE SUPERIOR CONSTR SPECIAL MARKS: TAG: #800082-12
INC C/O GREAT LAKES FOREST EQUIPT #2042330/
PROD PO BOX 430 (P7C 4W3) TAG: B/W 04-25-7341
THUNDER BAY ONT CAN
HIF TO PONDERAY NEWSPRINT CO.
HIGHWAY 20 MILE MARKER 423
USK, WA 99180 RK

MOD LINE	FRAME SIZE	TYPE	INSL	DESIGN	SERV FCTR	PHASE	AMB	DUTY	ENCL
LINE AC	E 02SAT	P	F	B	1.15	3	040	CONT	TEFC
ERTZ	HP	RPM	VOLTAGE	FL AMP	FT/MIN	CODE			
30	25	1770	575		24.4	G			
BRG, DRIVE END, FE	50BC03J30X26	BRG, OPP DRIVE END	50BC03J30X26						
FAMP N/P B/L	FE BRG:SKF								
1	NAMEPLATE,	613-6H	1	NAMEPLATE,LUBE	692-C				
1	NAMEPLATE,WARNING	692-F							

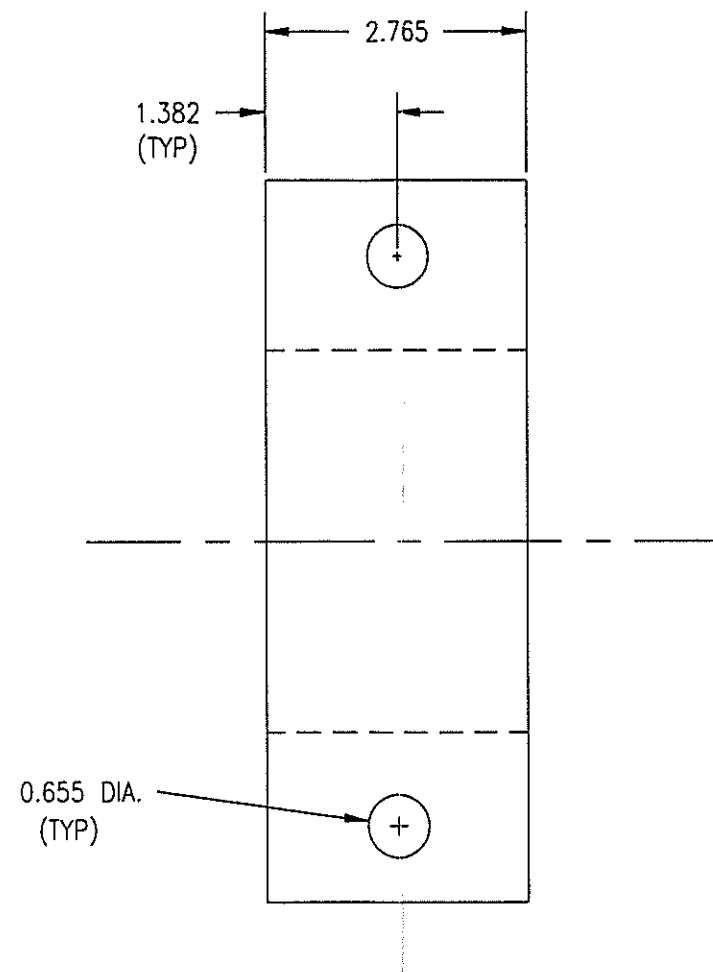
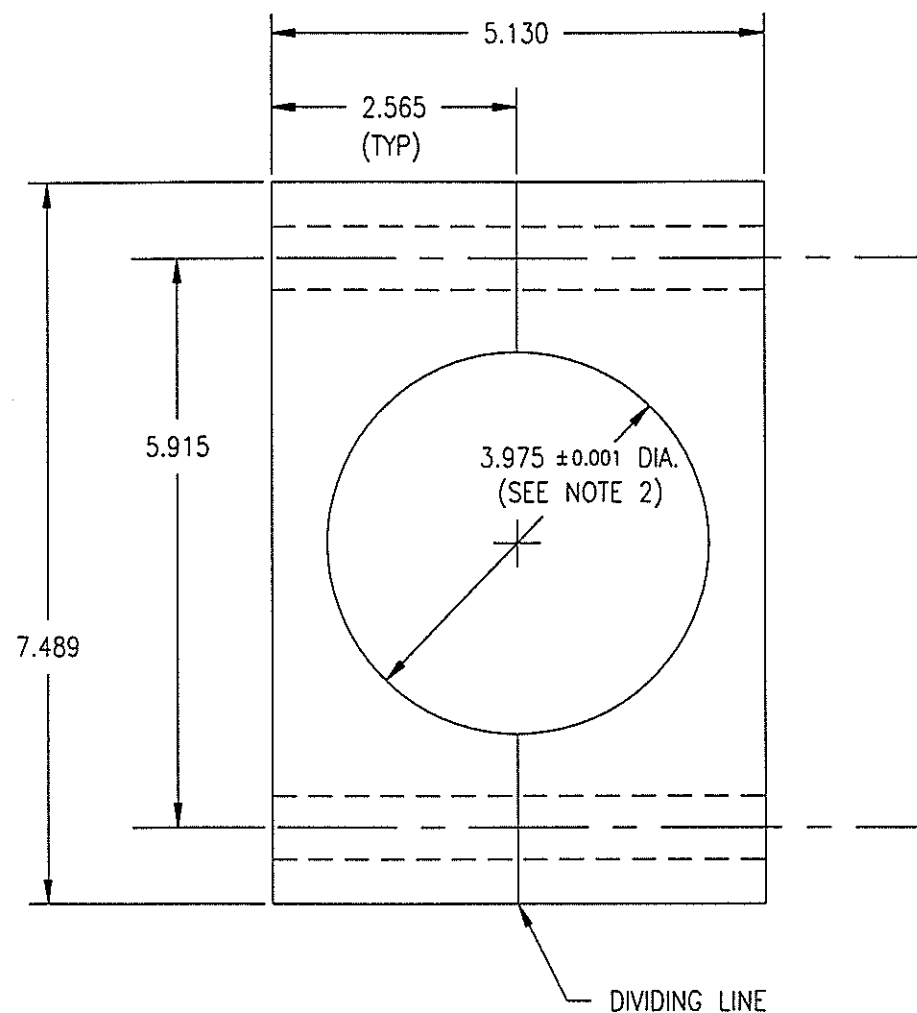
QUANTITY	PART NUMBER	PART DESCRIPTION	DISC.	SYM	LIST PRICE
1	65879-1A	FRAME			
1	609149-1R	SHAFT			
1	418139-11Z	ROTOR			
1	418221-13F	B BRG, FE	S1		9.00
1	416821-13E	B BRG, BE	S1		9.00
1	603754-182B	CAP, FE INNER			
1	603754-182H	CAP, BE INNER			
1	89481-1B	BRKT, FE			
1	410700-14D	NAVY, USHR, FE BRKT	N-MO		
1	702673-11B	FAN, FE OUTER			
1	78268-26A	CVR, FE	S1		23.00
1	415072-11B	CLAMP, FE FAN	S1		3.00
1	34180-8D	KEY, OUTER FAN			
1	4415045-26G	SLINGER, FE BRKT	S1		6.00
1	412118-6A	DRAIN, FE			
1	418150-3A	CAPLUG, FE GREASE			
1	35000-1A	ALLEN SETG, FE			
1	89481-1A	BRKT, BE	S1		6.00
1	412118-26G	SLINGER, BE BRKT			
1	418150-3A	DRAIN, BE			
1	35000-1A	CAPLUG, BE GREASE			
1	418150-1A	ALLEN SETG, BE			
1	35000-1A	CONDUIT, BE	S1		16.00
1	75460-11A	COVER, C/BOX			
1	75461-11A	COVER, C/BOX			
1	415073-7A	TERMINAL BOARD	S1		12.00
1	65591-C	GASK, CVR C/BOX			

REF. FILE **PN-400**
PONDERAY NEWSPRINT
COMPANY
NOV 8 1988

RELANCE ELECTRIC	MOTOR	PARTS	LIST
1ST. PO. NO.	DATE	SALES ORDER NUMBER	
1008212	10/27/88	13MAF41776	01 PAGE 2
QUANTITY	PART NUMBER	PART DESCRIPTION	DISC. SYM LIST PRICE
1	415000-3A	TERM LUG, GROUND	
1	418149-1B	PLUG, FAN COVER	
1	34180-26G	KEY, BE	
2	33775-4E	DR SCR, N/PLT	

TICKERS & TAGS : 412031-1A
602531-901
DIMENSION SHEET

P/L TO SOLD TO 2 P/L TO RUST INTL CORP, PO BOX 25374
PORTLAND, OR 97225-0374 ATTN: J.S. MAJORS, 1 P/L TO A. URIGHT-
TH 1 P/L TO TM SHEARER-RSK 1 P/L TO TS VANDEKAMP-RPR
1 COPIES



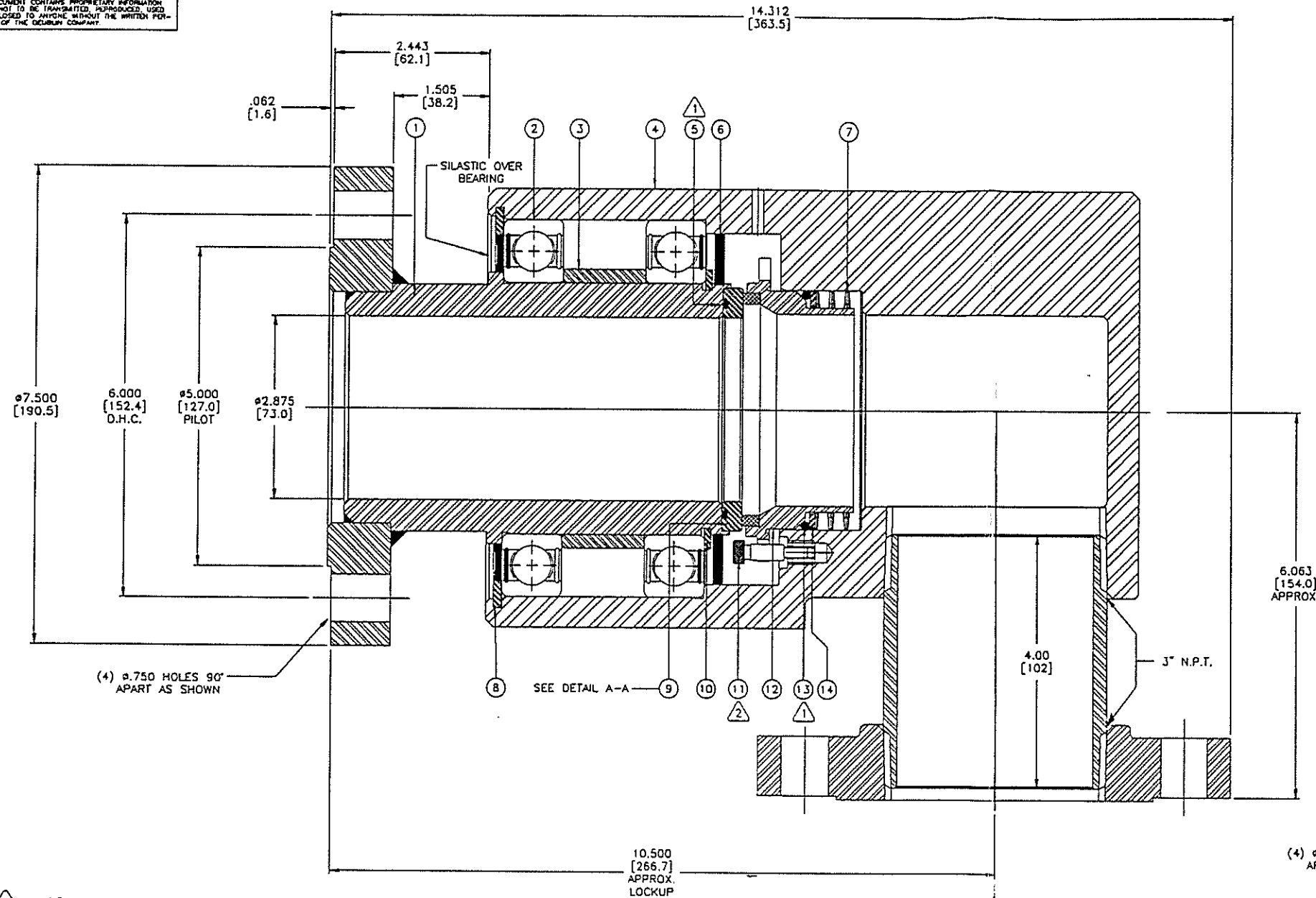
NOTES:

1. MATERIAL: NYLON
2. IF BEARING IS FABRICATED FROM A SINGLE PIECE WHICH IS CUT IN TWO, DIAMETER DIMENSION APPLIES AFTER BEARING HALVES ARE CUT APART.
3. BEARING IS INTENDED FOR USE ON DISC FILTERS, PNC EQUIPMENT NoS. 204-2320, 204-2330, 204-2820 AND 210-3130
4. BEARING IS STOCKED AS PNC STORES NUMBER 105128.

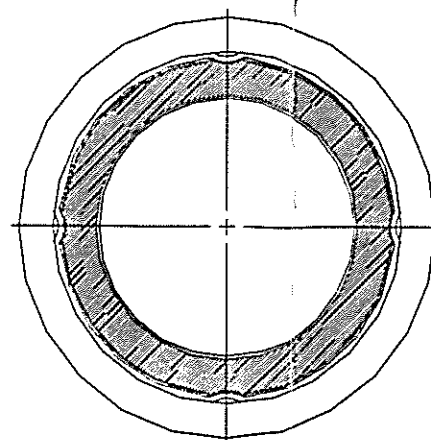
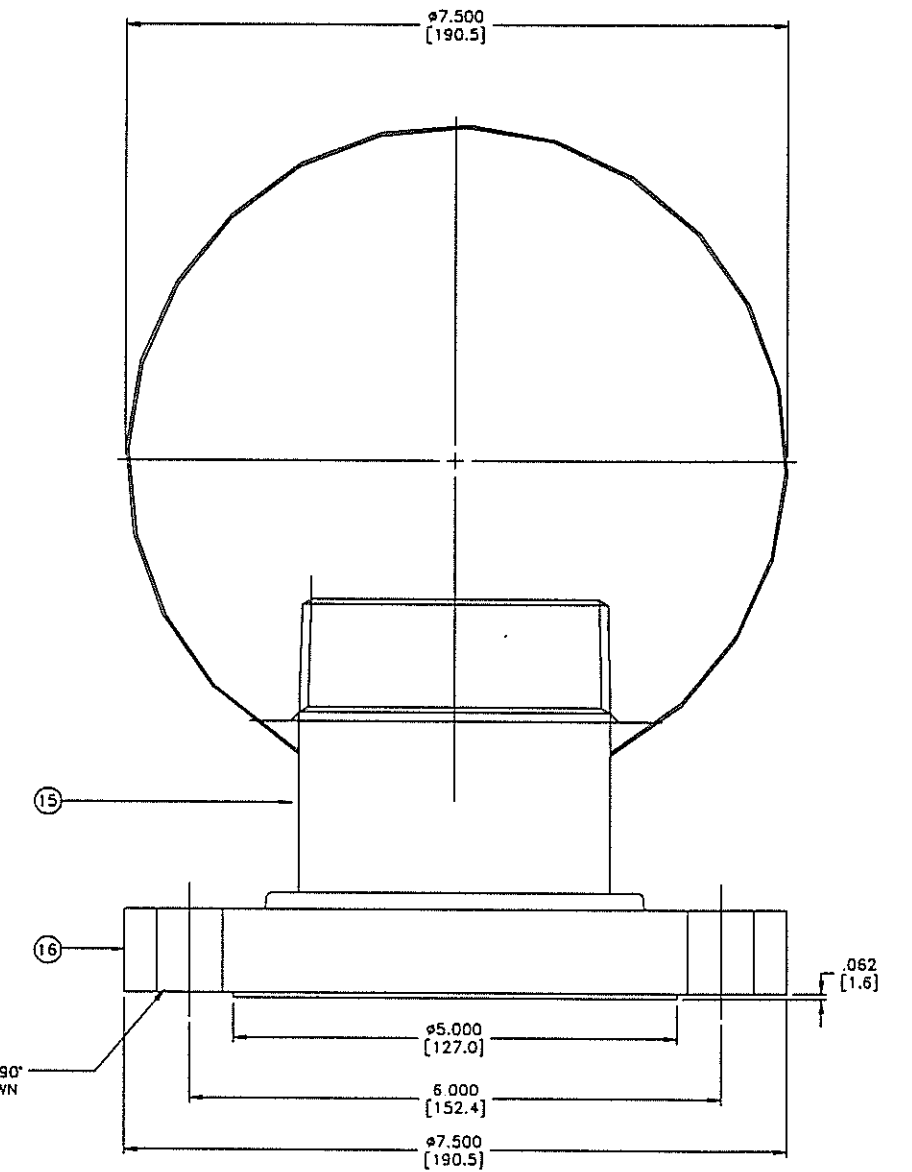
CHK'D. BY: <i>JLM</i>	DATE: 5-2-95	DRAWING TITLE:		 PONDERAY NEWSPRINT COMPANY USK, WASHINGTON 99180	
APP'D. BY:	DATE:	DISC FILTER OSCILLATING SHOWER BEARING			
		SCALE: 1/2			
		DESIGN BY:	DRAWN BY:	DATE:	DRAWING NUMBER:
		JMC	JMC	25 Apr 95	B-204-020-042
REFERENCE DRAWING	DWG NO.				SHEET 1/1
					REV 0

CONFIDENTIAL
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MISSION OF THE DEUBLIN COMPANY.

857-061-285



- 1 LUBE ALL O-RINGS WITH SILICONE GREASE
2 RETAIN THREADS WITH SILASTIC



DETAIL A-A
DETAIL OF KEYED TUNGSTEN
CARBIDE COATED SEAL
(4) KEYS 90° APART

16	857-290	3" ANSI FLANGE	1	316 STAINLESS STEEL
15	857-289	NIPPLE 3" NPT x 4.000 LONG	1	316 STAINLESS STEEL
14	914-104 (B)	SEAL GUIDE	1	STAINLESS STEEL
13	857-114	O-RING	1	ETHYLENE PROPYLENE
12	857-259	FLOATING SEAL ASSEMBLY HI-FLOW	1	ST.STL. / CARBON GRAPHITE SEAL
11	857-123	SHOULDER SCREW 1/4 x 5/8" LG.	2	STAINLESS STEEL
10	857-107 (C)	SNAP RING	1	STEEL
9	857-110	SEAL PLATE	1	ST.STL. / TUNGSTEN CARBIDE COATED
8	857-286	SPIROLOX HEAVY DUTY	1	STAINLESS STEEL
7	857-116	WAVE SPRING	1	STAINLESS STEEL
6	857-108	SLINGER	1	BUNA-N
5	857-109 (A)	O-RING	1	FLUORAZ
4	857-288	HOUSING	1	316 STAINLESS STEEL
3	857-106	BEARING SPACER	1	STEEL
2	857-275	BALL BEARING LUBE W/ KLUBER L55/2	2	
1	857-285	ROTOR WELDMENT 3" ANSI FLANGE	1	316 STAINLESS STEEL
NO	PART NUMBER	DESCRIPTION	QTY	MATERIAL

EQ# 204 23 30

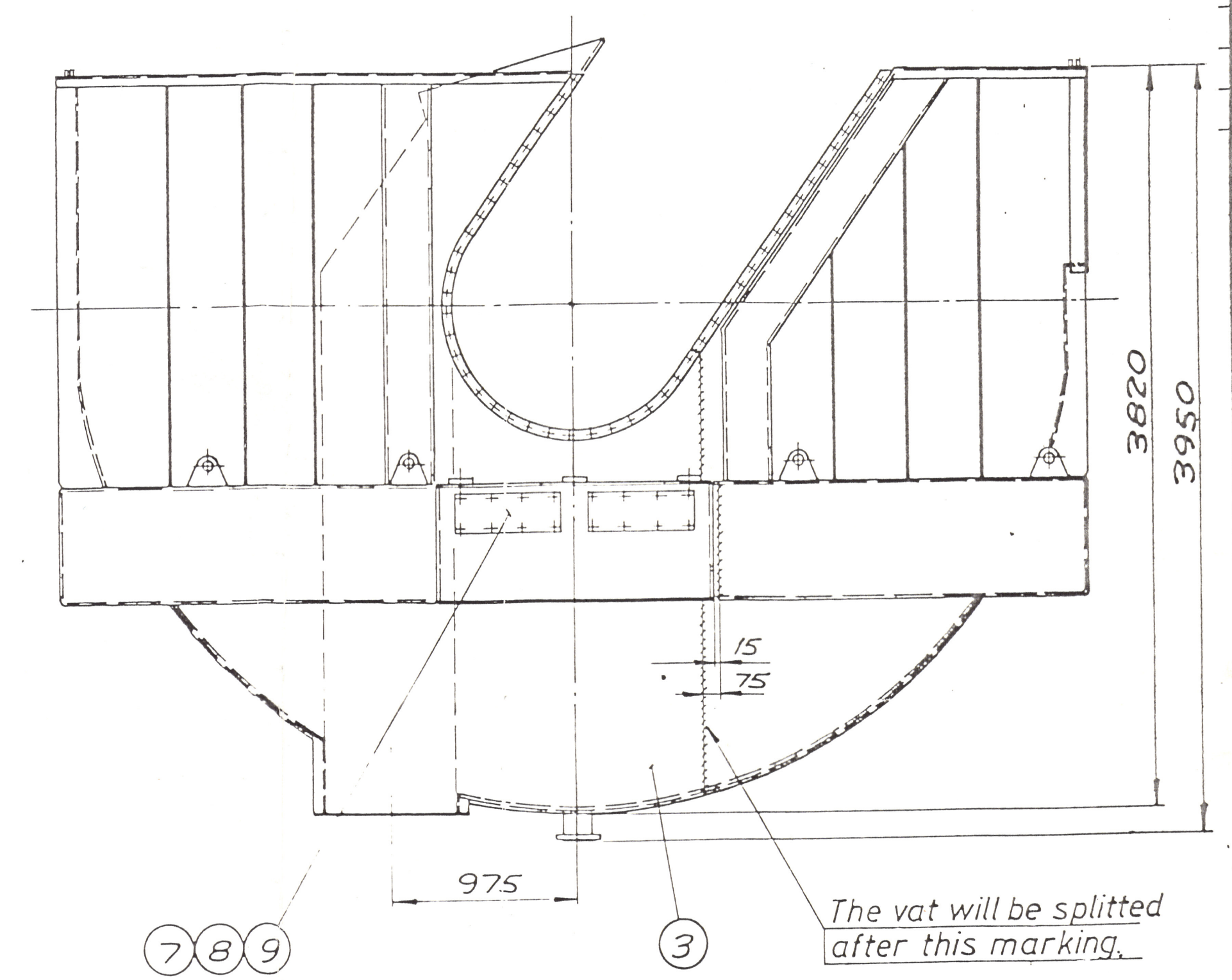
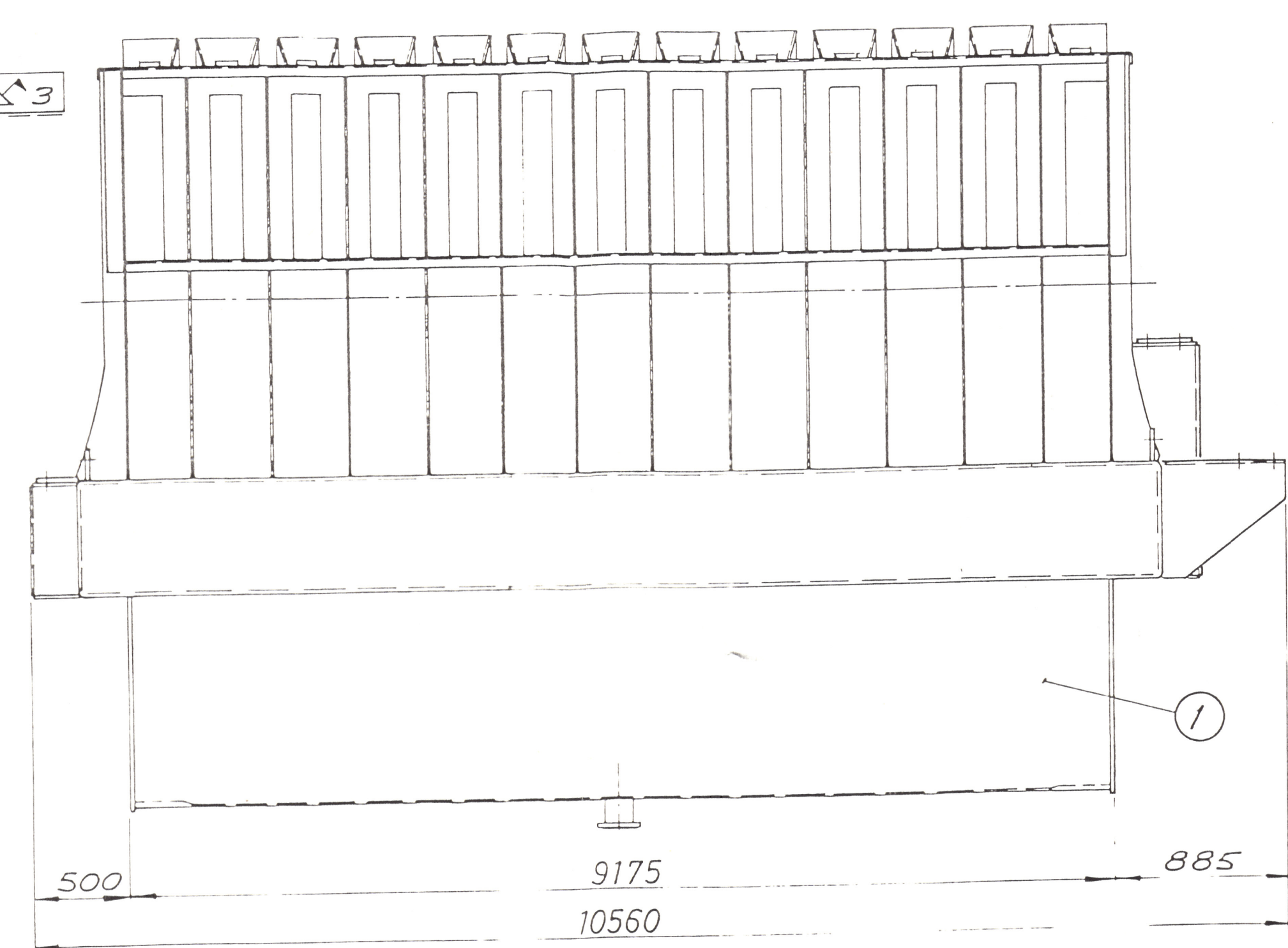
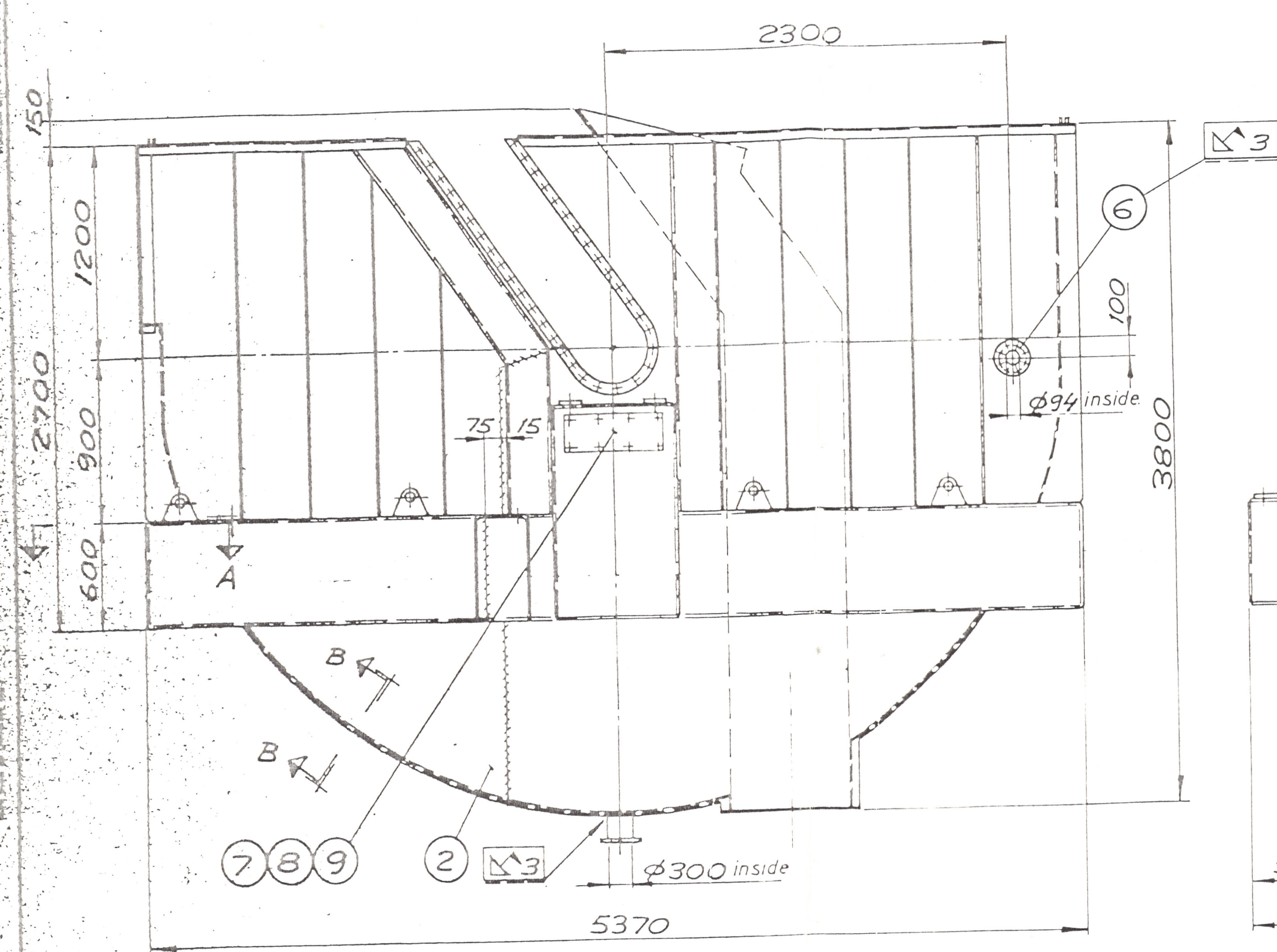
OPERATING DATA:

WHITE WATER SERVICE
150 PSI [10bar] MAX. WATER PRESSURE
500 RPM [500/min] MAX. SPEED
140°F [60°C] MAX. WATER TEMPERATURE
6 ft./lbs. [8.2Nm] TORQUE @ 150 PSI [10bar]

				EQUIPMENT REF:				REV		DATE		 DEUBLIN COMPANY WAUKEGAN, ILLINOIS, U.S.A.	
								LWC		09/06/98			
								LWC		09/06/98			
				ASSY/TEST FIXTURES REQUIRED:				DATE		09/06/98		TITLE	
C WAS 857-287 STAINLESS (NOT AVAL)				09/06		LC		UNFOLDED LENGTH DIMENSIONS ± 0.10 ODDHALF AS SPECIFIED DIMENSIONS IN () ARE IN MILLIMETERS.		REL.		EAG (Drawing) 857-061-285	
B WAS 857-115				09/06		LC							
A O-RING WAS 6200-245 (NITON)				09/06		LC							
LIT.		REVISION		ECO		DATE		SIGN					

The drawing is not to be used for manufacturing without the approval of the design office. The drawing is not to be used for manufacturing without the approval of the design office.

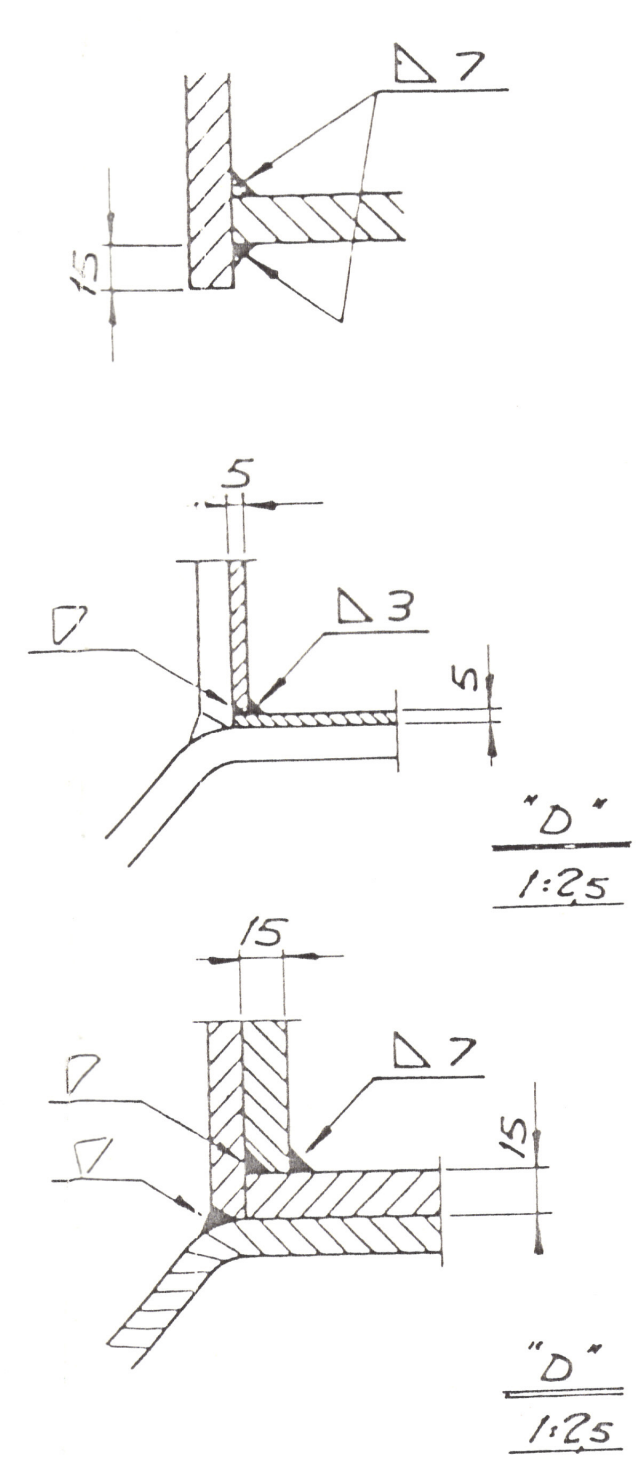
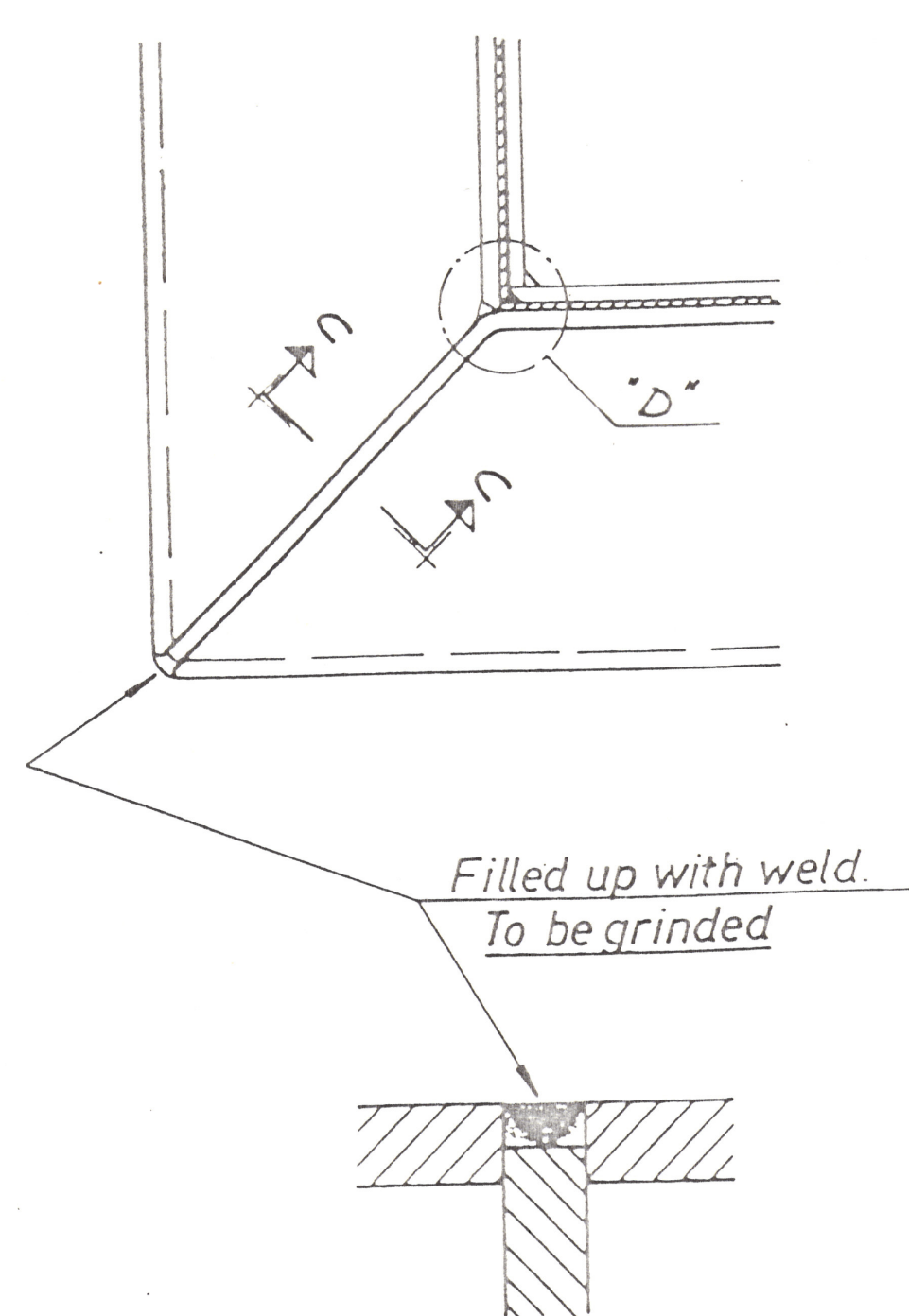
Andr.	Rev.	Spec.	Datum	Date	Sign.	Tolerance for
						Vijamheli Ra
						Surface roughness
						Skarpa kenter bytes
						mm
						Sharp edges to be dressed
						Bearb. yta
						Machined
						surface
						Series medel
						Medium series
						Obearb. yta
						Unmachined
						surface
						Series grov
						Coarse series



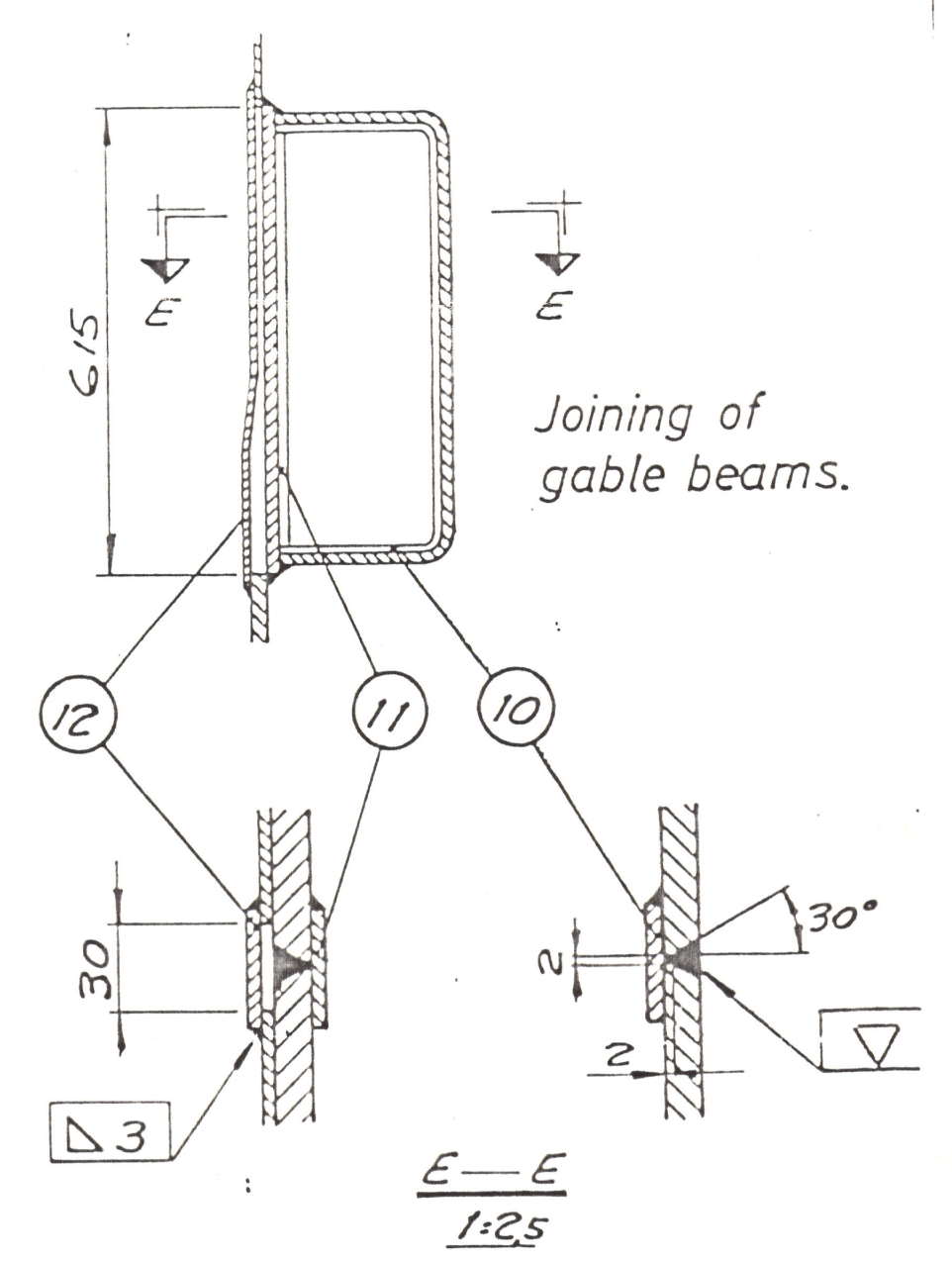
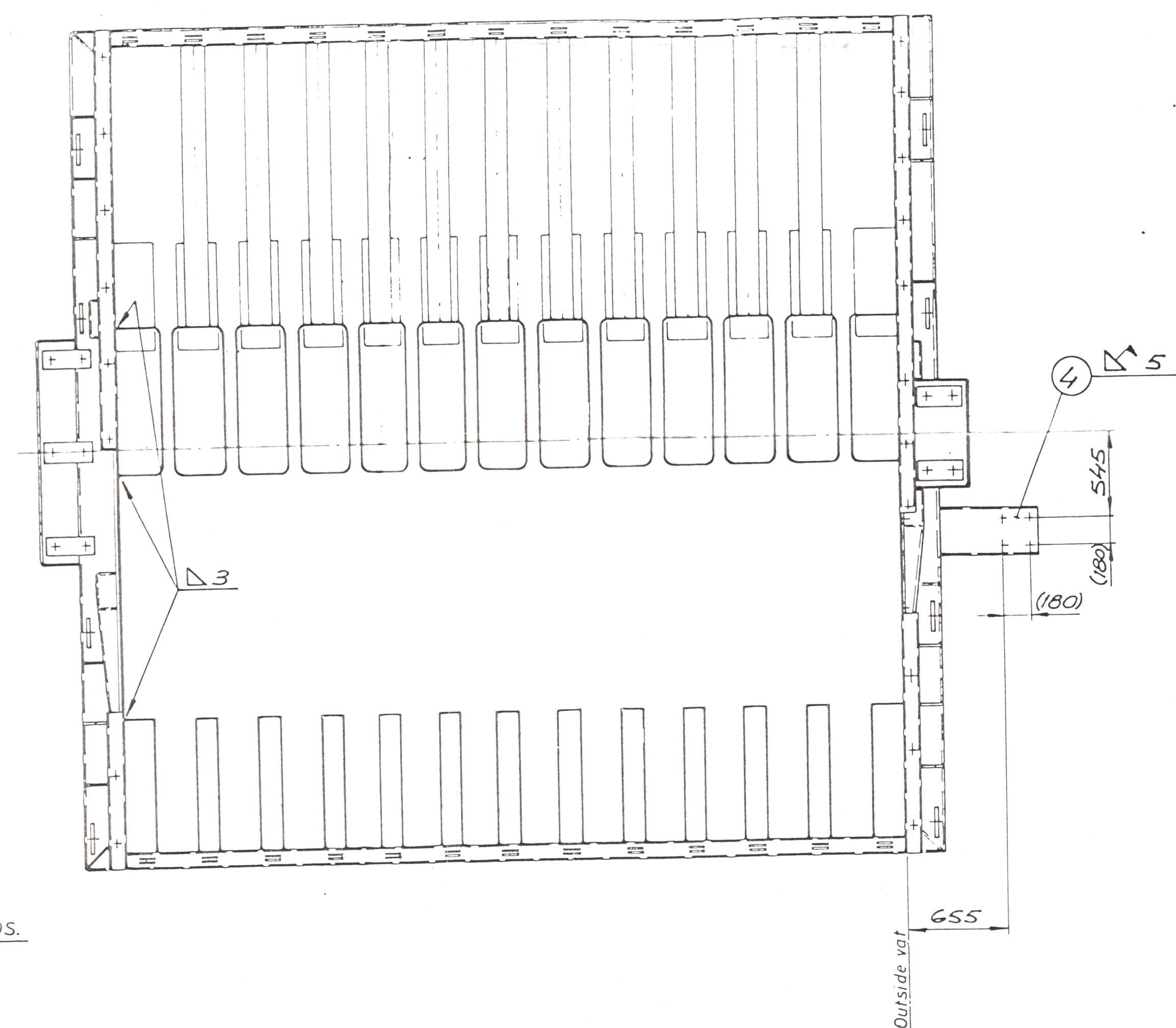
The vat will be splitted after this marking.

A-A
1:5

B-B
1:25



C-C
1:1



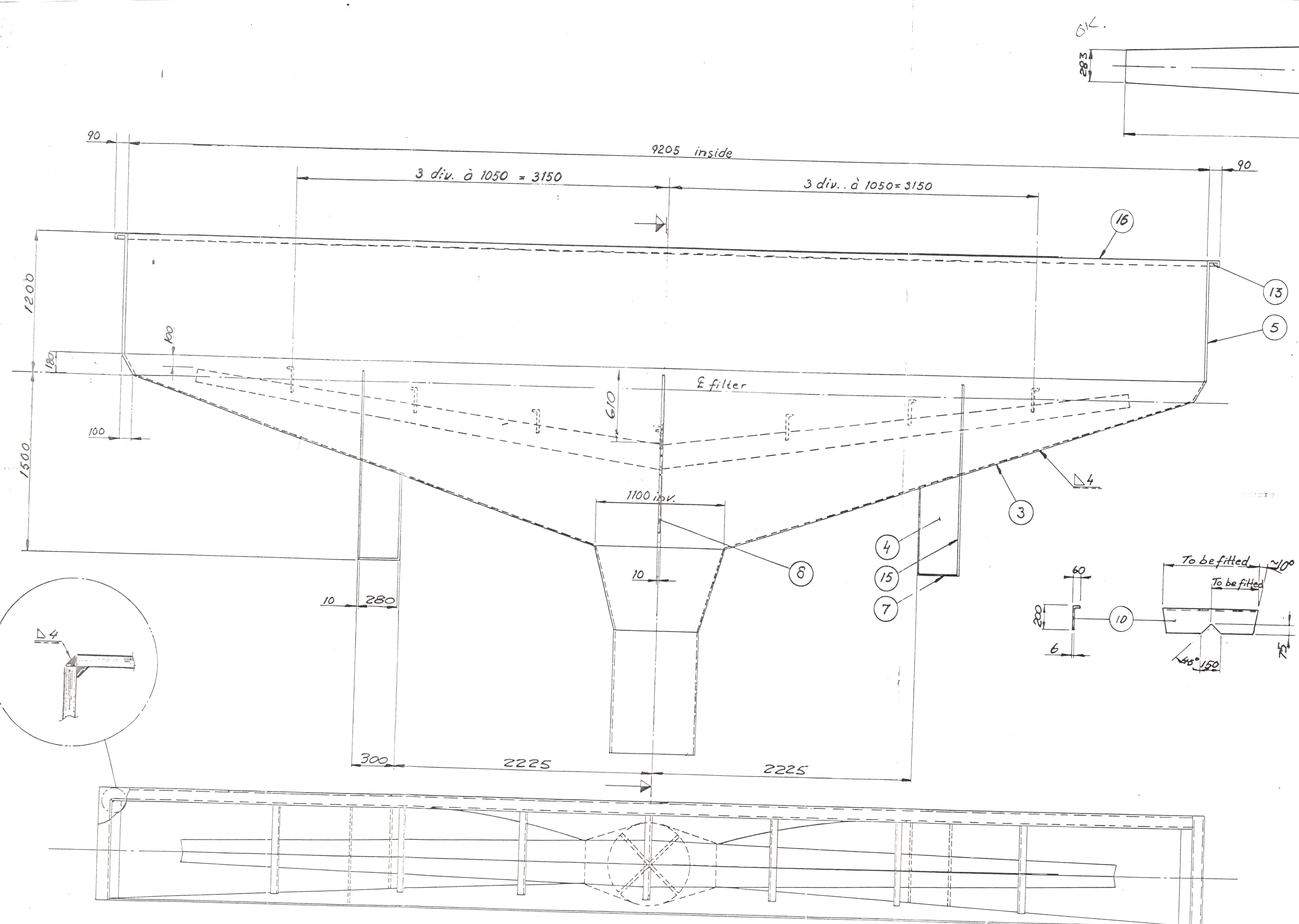
Weld $\Delta 3$ unless otherwise stated.

PRELIMINARY

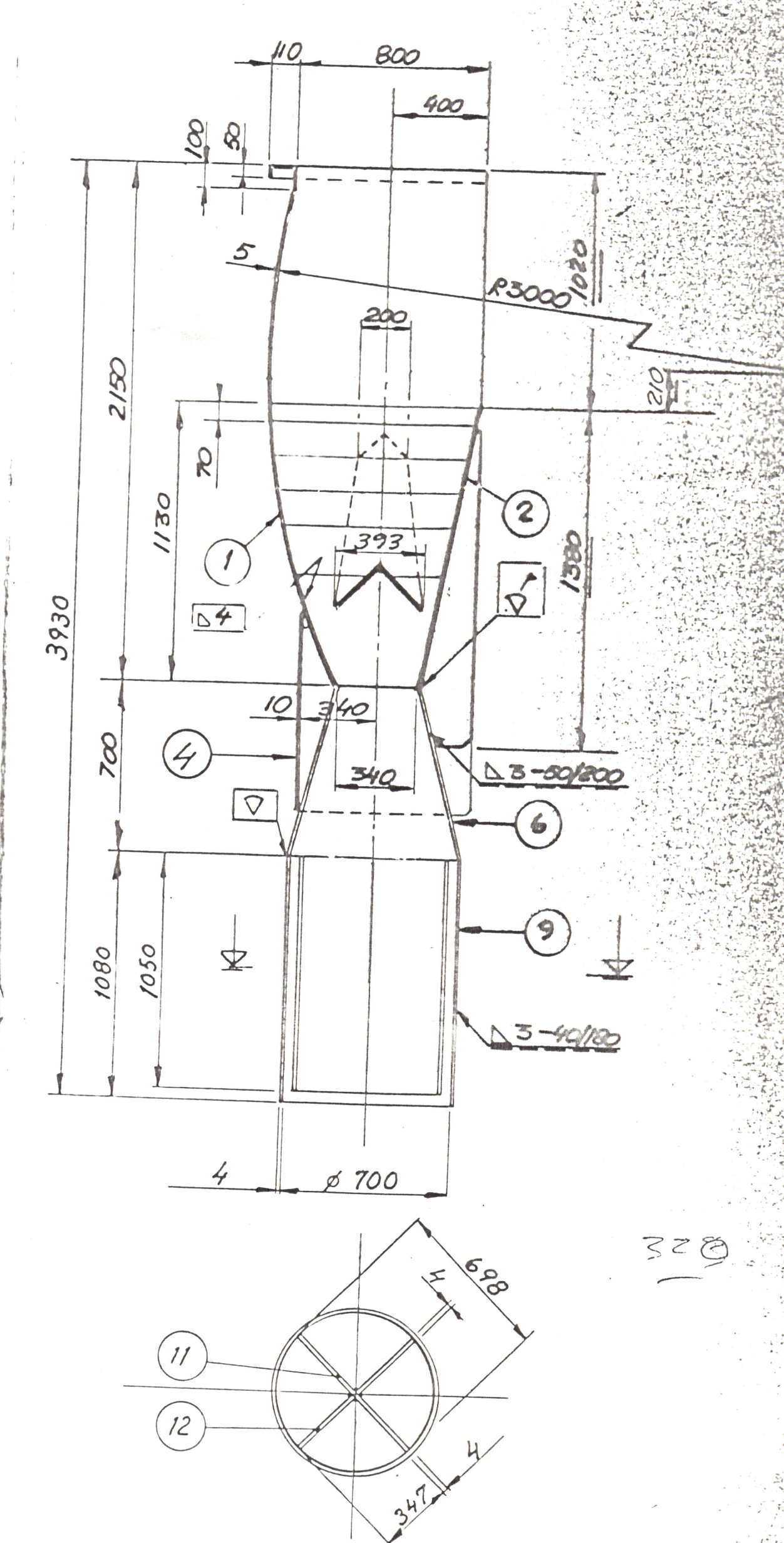
Q	B	A	Det	Benämning	Material	Volym	Antal	Antal	Antal
				870922 MK					
				1:25 1:1					
				1:25 1:5					
				HEDEMORA					
				HEDEMORA AB					
				SWEDEN					
				DISC FILTER $\phi 5000$					
				Clockwise rot (fr. drive side)					
				Vat high level					
				Ass. drwg. 22 discs					
				1-86024 Eng					

86024 Eng

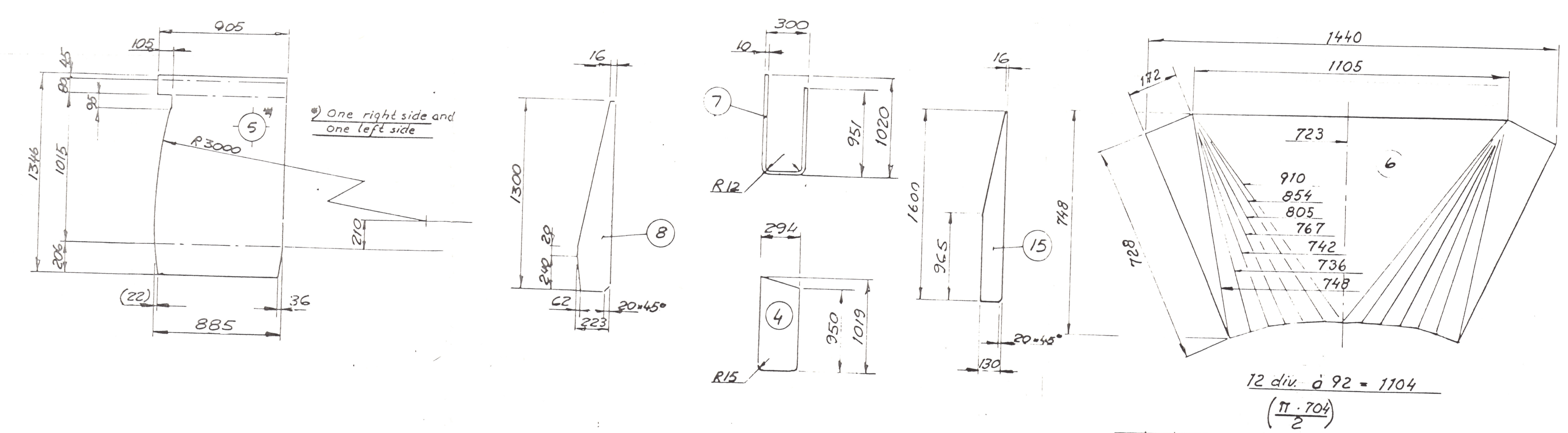
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Material		Quantity	
Stainless steel	1600 x 130 x 8	1	1-83968-0
Perf. plate	4034 x 556 x 5	2	316 L
Plate	80 x 45 x 5	2	
Plate	347 x 1050 x 4	2	
Plate	678 x 1050 x 4	1	
Plate	248 x 950 x 6	1	
Plate	2212 x 1080 x 4	1	
Plate	1300 x 223 x 10	2	
Plate	2231 x 600 x 10	2	
Plate	1440 x 748 x 4	2	
Plate	1346 x 905 x 5	4	
Plate	1019 x 294 x 5	2	
Plate	4062 x 827 x 5	1	
Plate	9205 x 1152 x 5	1	
Plate	9205 x 2344 x 5	1	316 L



RECEIVED
 APR 5 1989
 Not. Det. 14. Hole $\phi 10$ div. 20
 triangle div. 23% open area
 Cpt. 204238
 204238
 204238



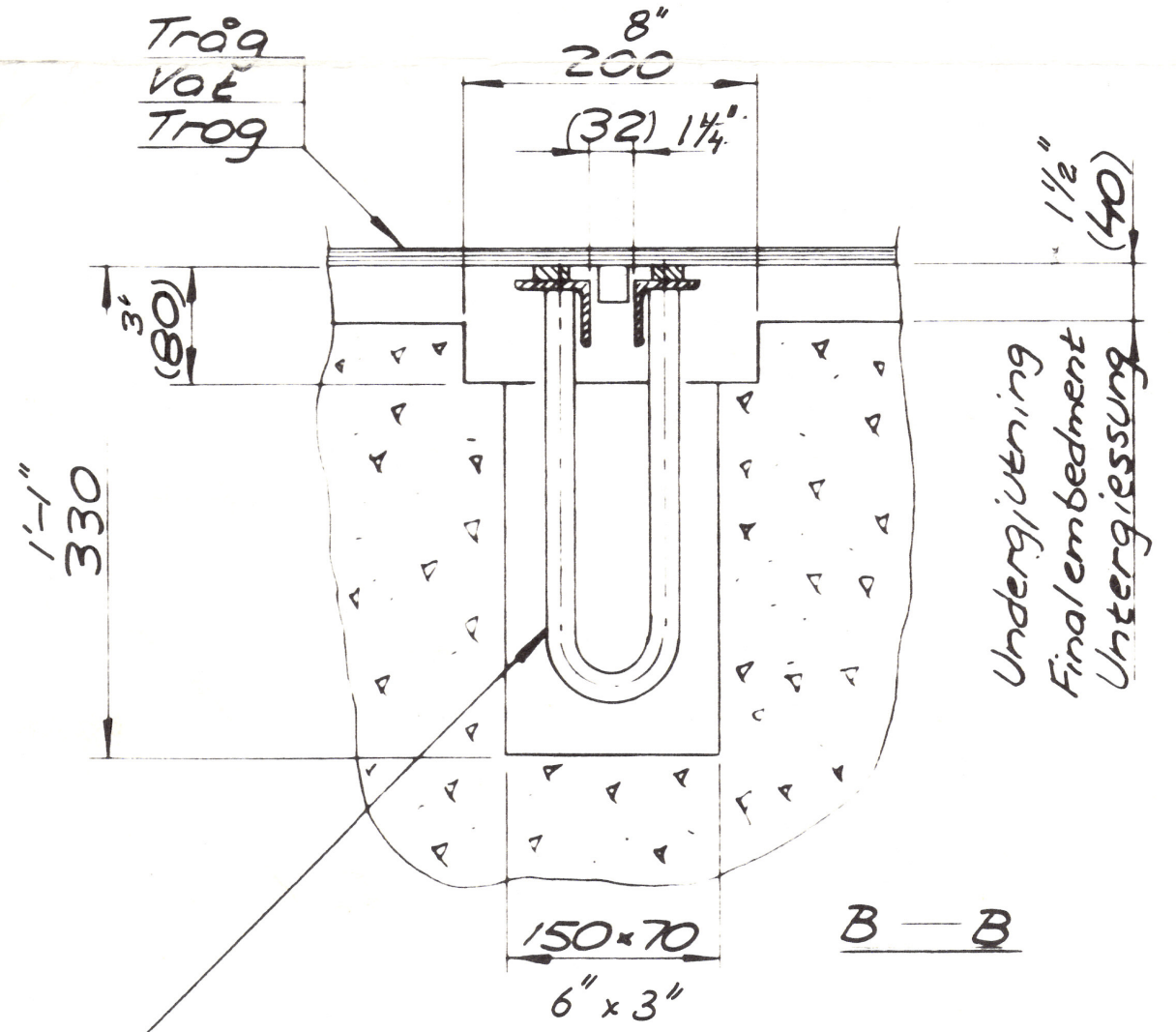
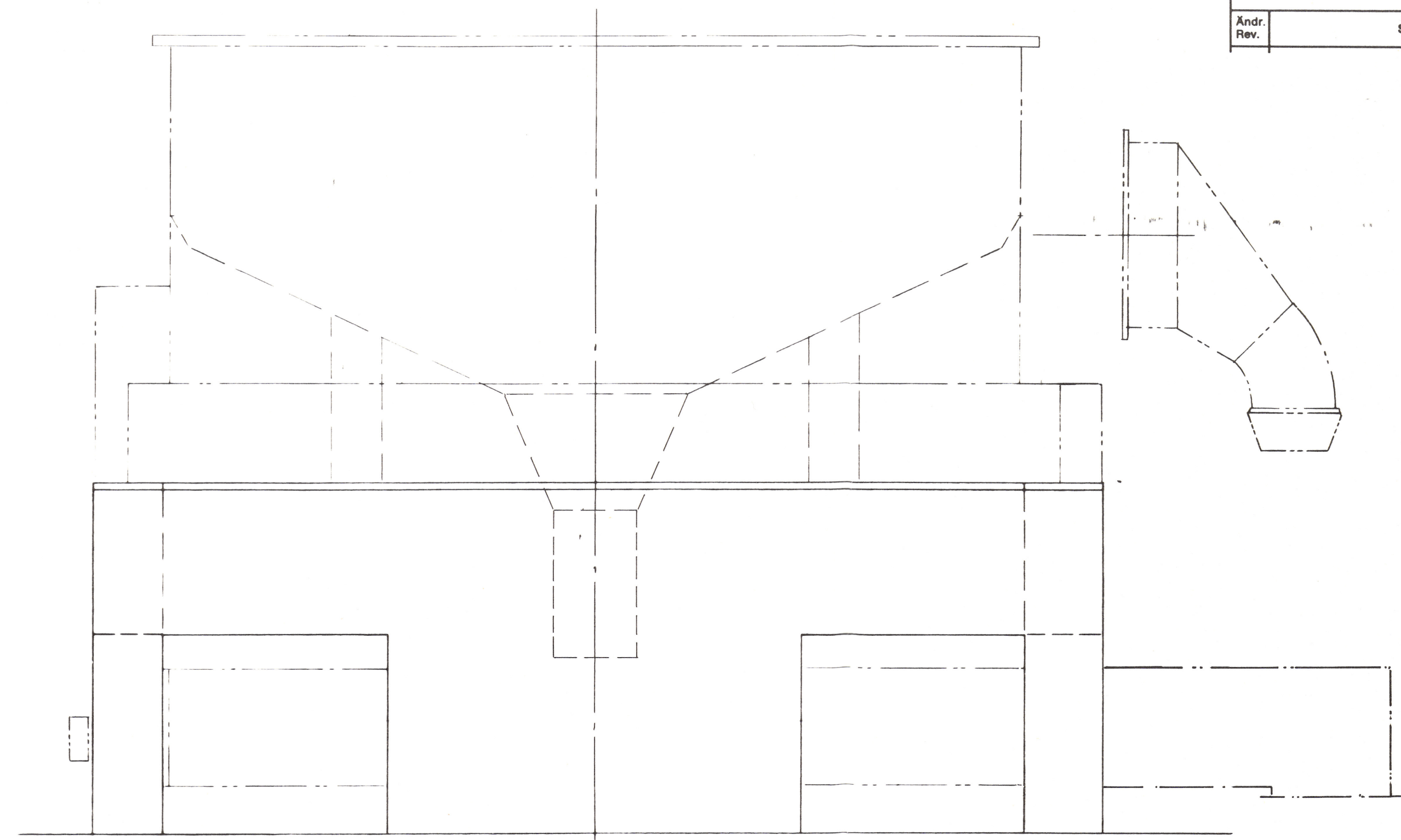
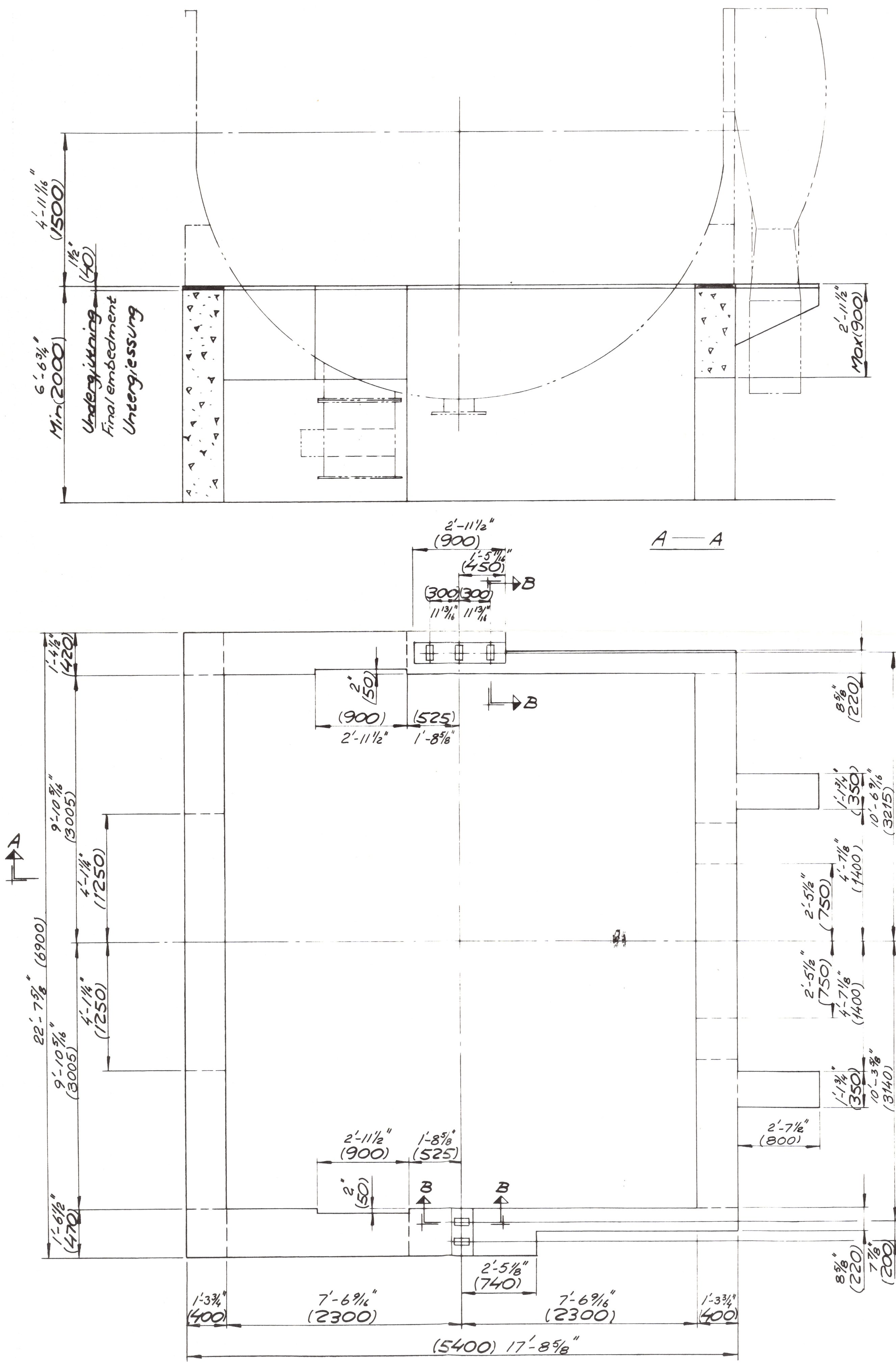
Uff	Ant	Uff	Ant	Uff	Ant	Uff	Ant
A	1	A	1	A	1	A	1
Hymac	70.88.2374/2380	B37					
Blandin Paper Co.	70.87.2228	w. 835					
Blandin Paper Co.	70.87.2222	w. 835					

C	B	A	Det. No.	Description and net dim.	Mat.	Q'ty	Unit
1	16	Cover				1	1-83968-0
2	15	Plate		1600 x 130 x 8		2	316 L
2	14	Perf. plate		4034 x 556 x 5		2	
2	13	Plate		80 x 45 x 5		2	
2	12			347 x 1050 x 4		2	
1	11			678 x 1050 x 4		1	
7	10			248 x 950 x 6		1	
1	9			2212 x 1080 x 4		1	
1	8			1300 x 223 x 10		2	
2	7			2231 x 600 x 10		2	
2	6			1440 x 748 x 4		2	
2	5			1346 x 905 x 5		4	
4	4			1019 x 294 x 5		2	
2	3			4062 x 827 x 5		1	
1	2			9205 x 1152 x 5		1	
1	1	Plate		9205 x 2344 x 5		1	316 L

DISC FILTER 45000 x 22
 Feed box
 HEDEMORA
 AB HEDEMORA VERKSTÄDER
 SWEDEN

This drawing remains the property of the company and is loaned subject to the condition that it will be returned to the company in the original condition and without any alterations or additions. The company will not be responsible for any loss or damage to the drawing or for any alterations or additions made by the user.

1-85785



Ingräddningsdetaljer lever av Hedemora.
Anchoring details delivery from Hedemora.
Eingrissungsdetalle von Hedemora geliefert.

880219

DISCFILTER EQUIPMENT N° -204 2330 SEE DRAWING 1-85784

1	Ant.	Utt.	Anläggning	Best. nr	Lev	Utlämnad	Anm./Smt
			Ponderay Newsprint	70.88 2318			

Vikter i ton/LBS
Nettovikt: 361 79200
Arbetsvikt: 130/286 000
Max lyftvikt (Trög exkl. in-lösda): 15/33 000
Trög dim: B=5400 H=3950 L=7000
17'-8 5/8" 12'-11 1/4" 23'-0"

Weights in Tons/LBS
Net Weight: 361 79200
Operating weight: 130/286 000
Max lift weight (Vot excl. feed box): 15/33 000
Vot dim: B=5400 H=3950 L=7000
17'-8 5/8" 12'-11 1/4" 23'-0"

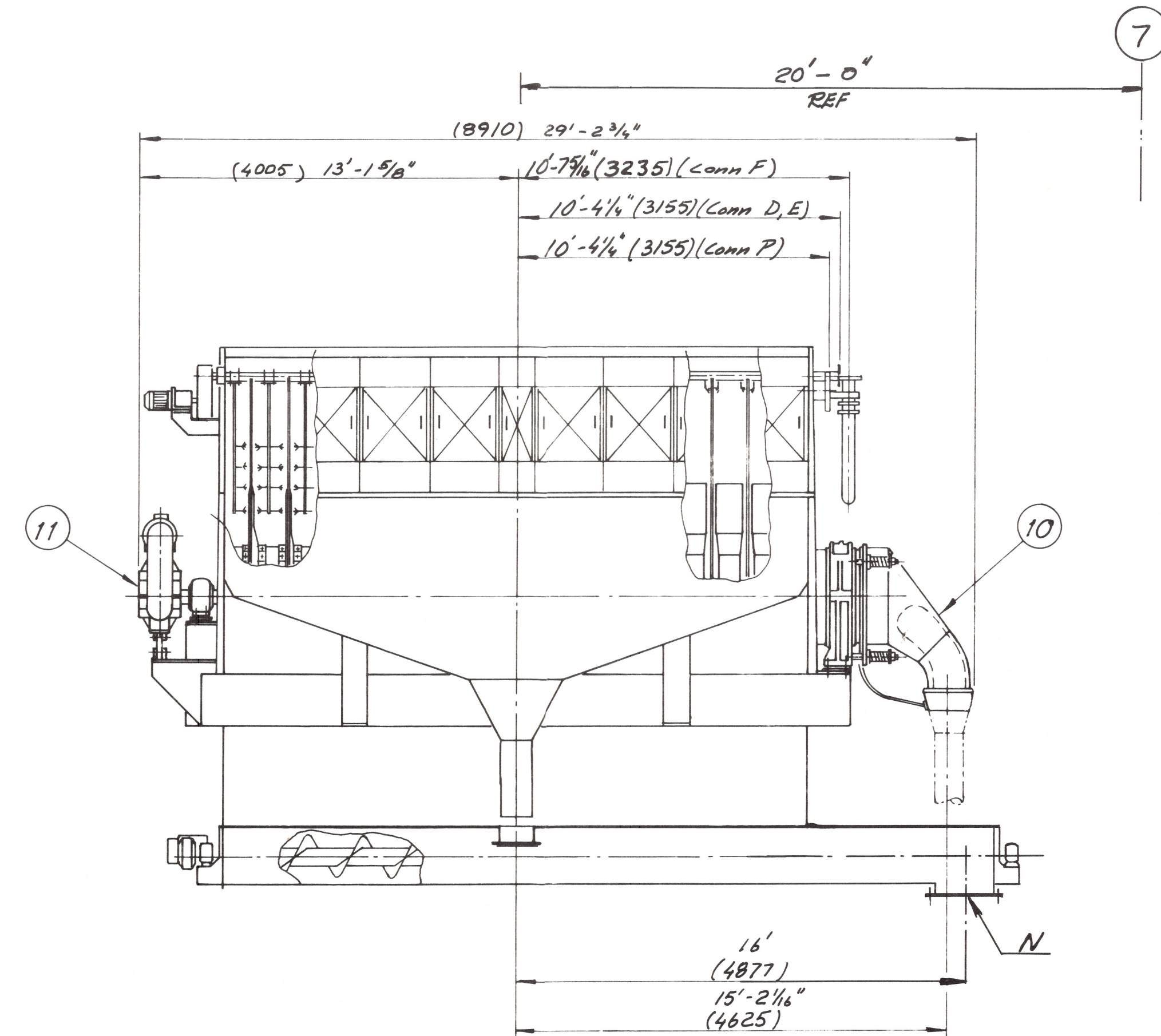
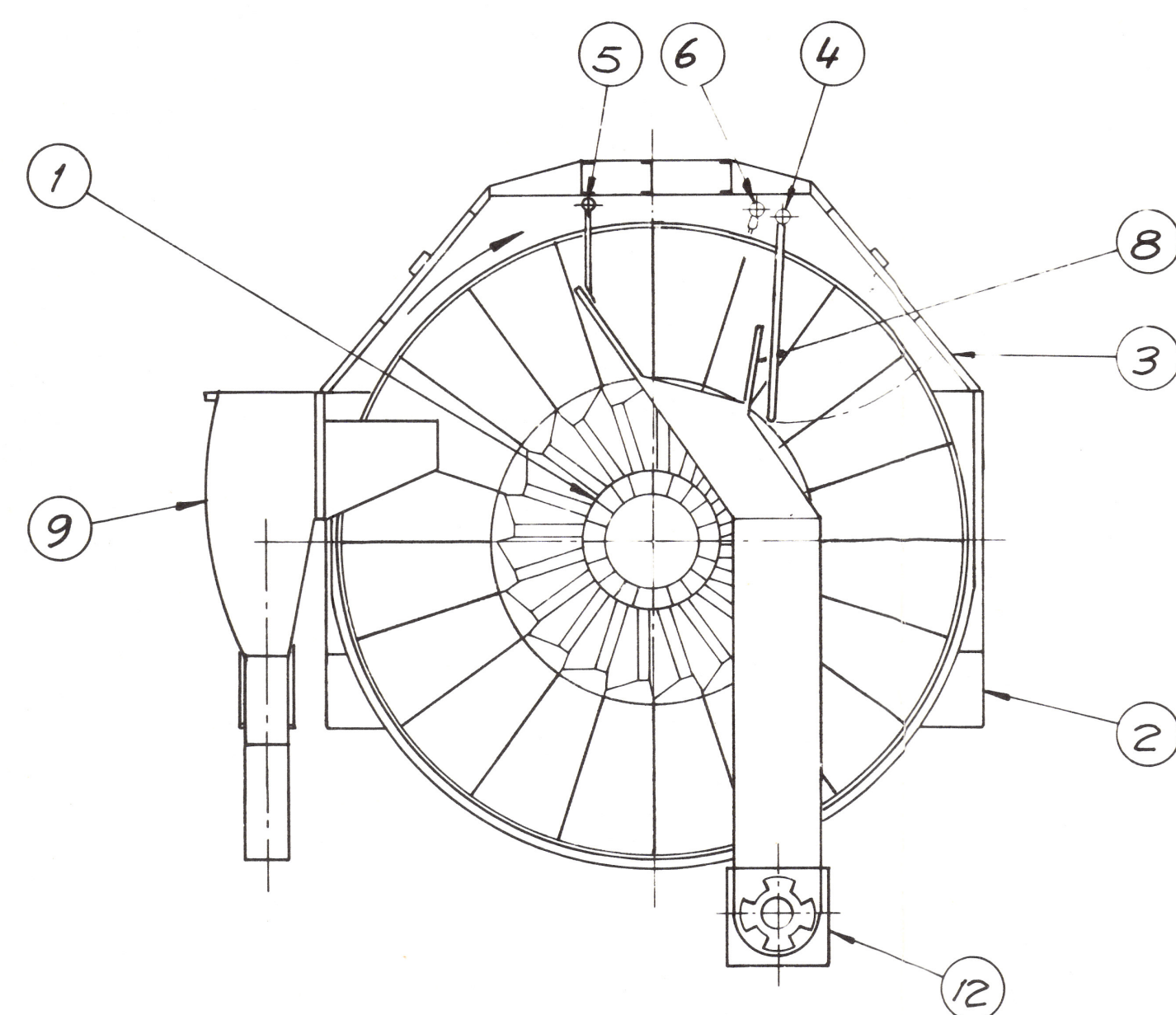
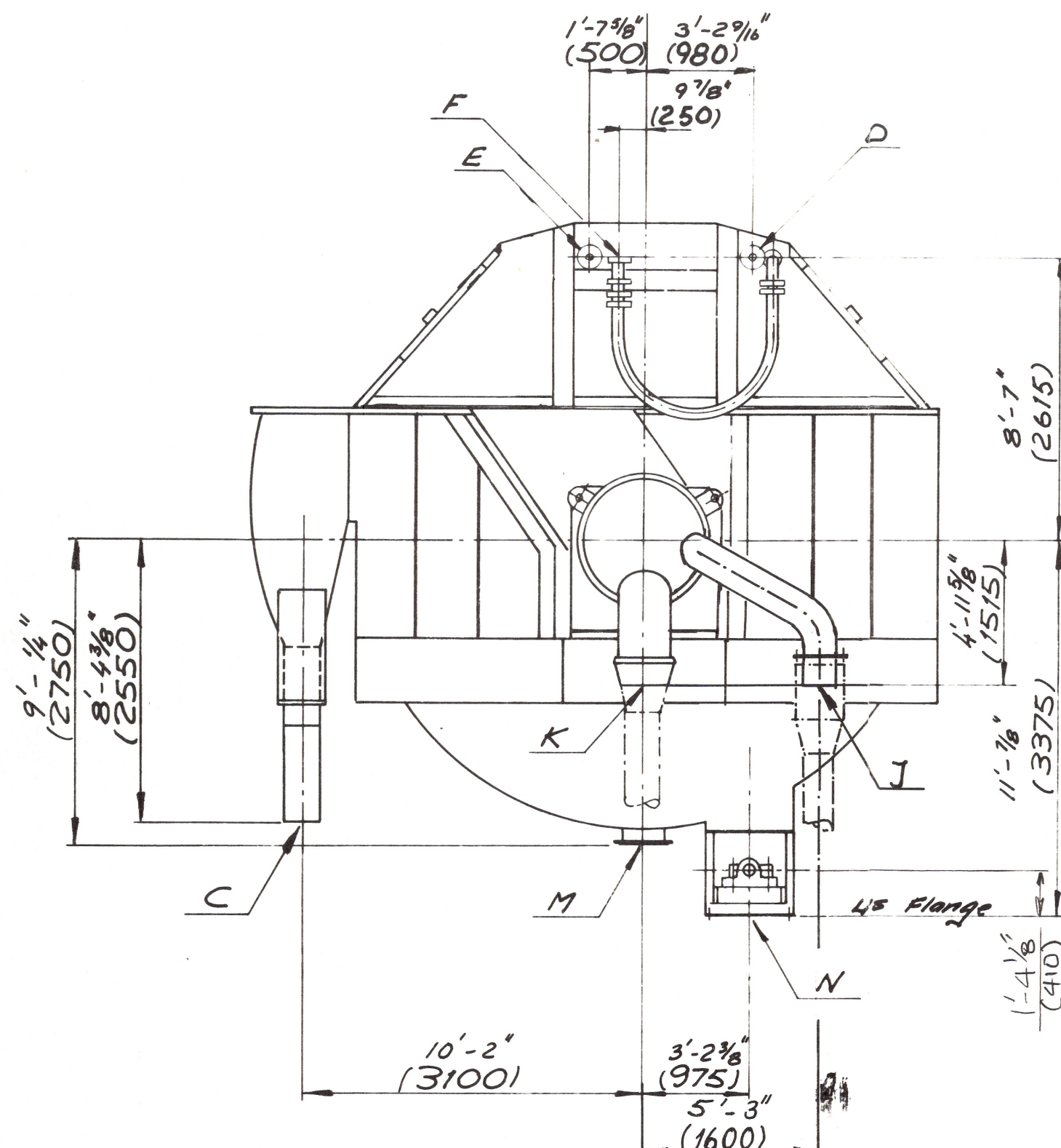
Gewichte in Tonnen
Nettogewicht: 36
Betriebsgewicht: 130
Max Hebe-gewicht (Trög ausschl. Einlaufkasten): 15
Trög masse: B=5400 H=3950 L=7000
17'-8 5/8" 12'-11 1/4" 23'-0"

C	B	A	Det No	Benämning och nedtidim	Rita	Material	Vikt	Anm.
				Description and net dim	Drwg		Weight	Note
			871230	SENFILTER Ø5000x14 DISC				
				DISCFILTER Ø5000x14 DISC				
				SCHEIBENFI. Ø5000x14 SCH				
				FUNDAMENT				
				FOUNDATION				

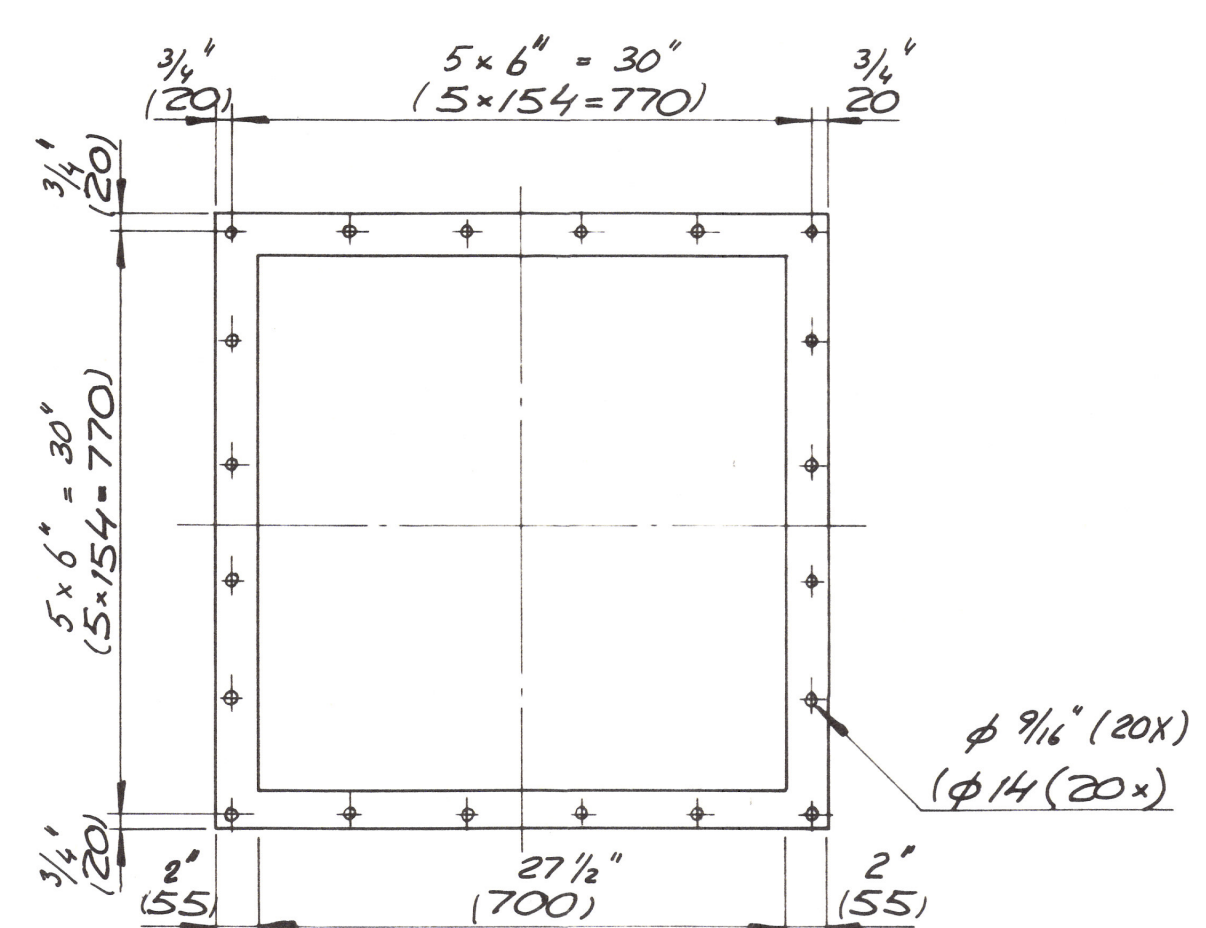
RECEIVED
NOV 21 1988
RUST ENGINEERING
21-3203

PONDERAY NEWSPRINT
COMPANY
NOV 16 1988
REF. FILE PN-21

1-86607



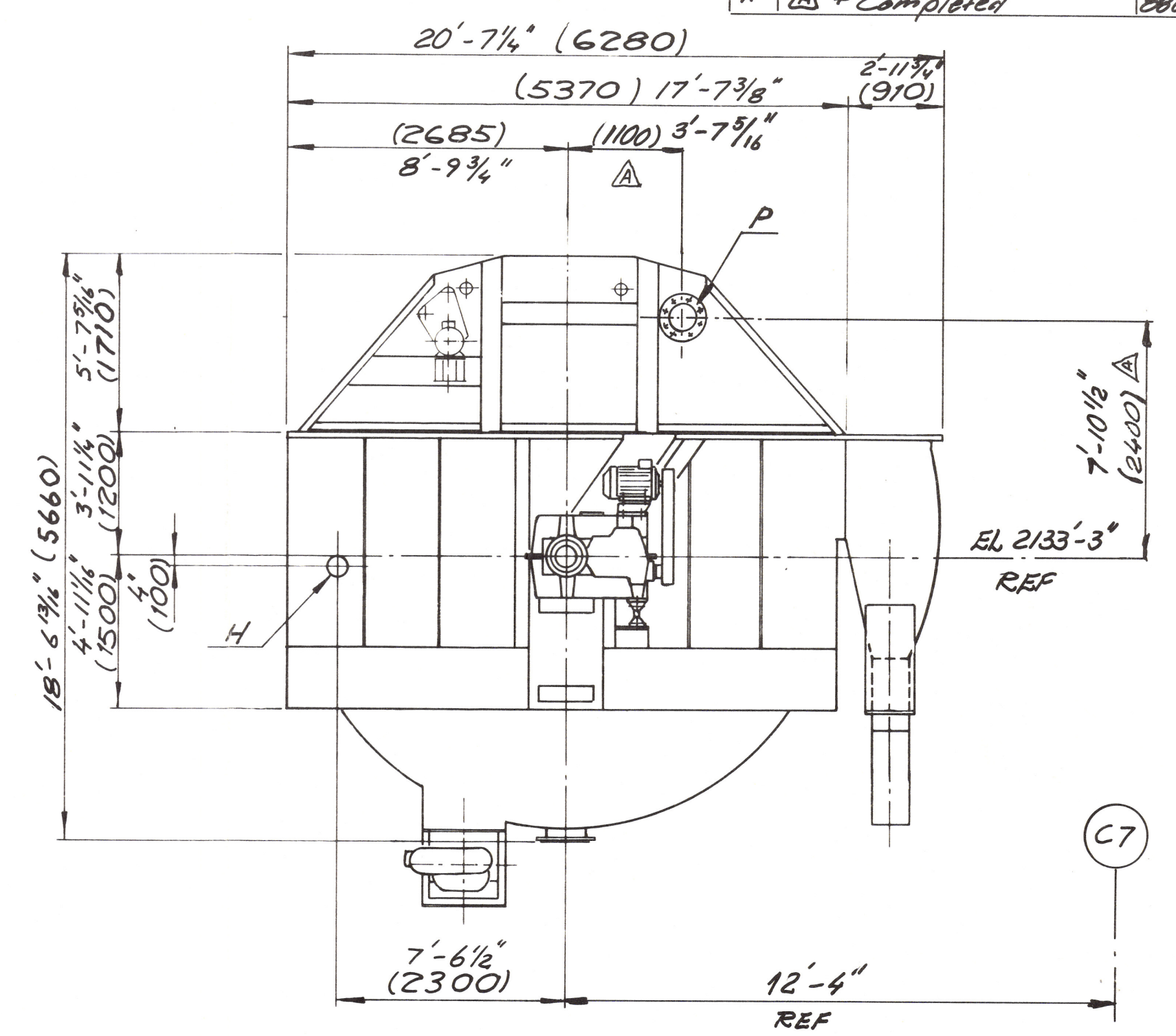
VIEW LOOKING WEST



Ans.
Conn.
Anschluss N
1:10

Equipment N^{os} - 204 2330 △
TMP DISCFILTER LINE B

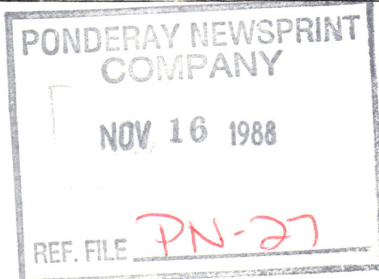
Dai ry annat anvges galler Unless specified the following is valid				
Yijammhet Ra	um		Tolerans for	
Surface roughness			Tolerance for	
Skarpa kanter blytes	mm	Bearb. yta	SMS 715 – ISO 2768	
Sharp edges to be dressed		Machined surface	Serie medel	
			Medium serie	
		Obearb. yta	SMS 715 – ISO 2768	
		Unmachined surface	Serie gro	
			Groove serie	
Andr Rev	Spec.		Date Date	Sign.
A	A + Completed		200322	B



VIEW LOOKING NORTH

Flansar enl. 150 Lbs A.N.S.I
Flange acc. 150 Lbs A.N.S.I

	Benämning	Description	Benennung	Ant. Nr. Anschl.	Ansl. Conn. Anschl.	Anmärkning Remark Anmerkung
C	Inlopp	Inlet	Zulauf	1	20"	Weld conn.
D	Kakavspoln.	Discharge shower	Abdlesesprütze	1	3"	Flg
E	Rödningspolning	Sluicing shower	Rinnen-sprütze	1	4"	Flg
F	Dukspröjes	Wire cleaning shower	Reinigungs-sprütze	1	4"	Flg
H	Fläns för nivågivare	Flange for level ind.	Flansch für Pegel/z.	1	3"	Flg spec DS 441.05
J	Förfilterat	Cloudy filtrate	Trüb-Filterat	1	14"	
K	Klarfilterat	Clear filtrate	Klar-Filterat	1	14"	Reduced to 12"
M	Bottenavlopp	Drainage	Bodenentleerung	1	12"	Flg
N	Massavutlopp	Pulp outlet	Fangstoff	1	Q	Special See below
P	Utsugning	Ventilation	Ventilierung	1	12"	Flg

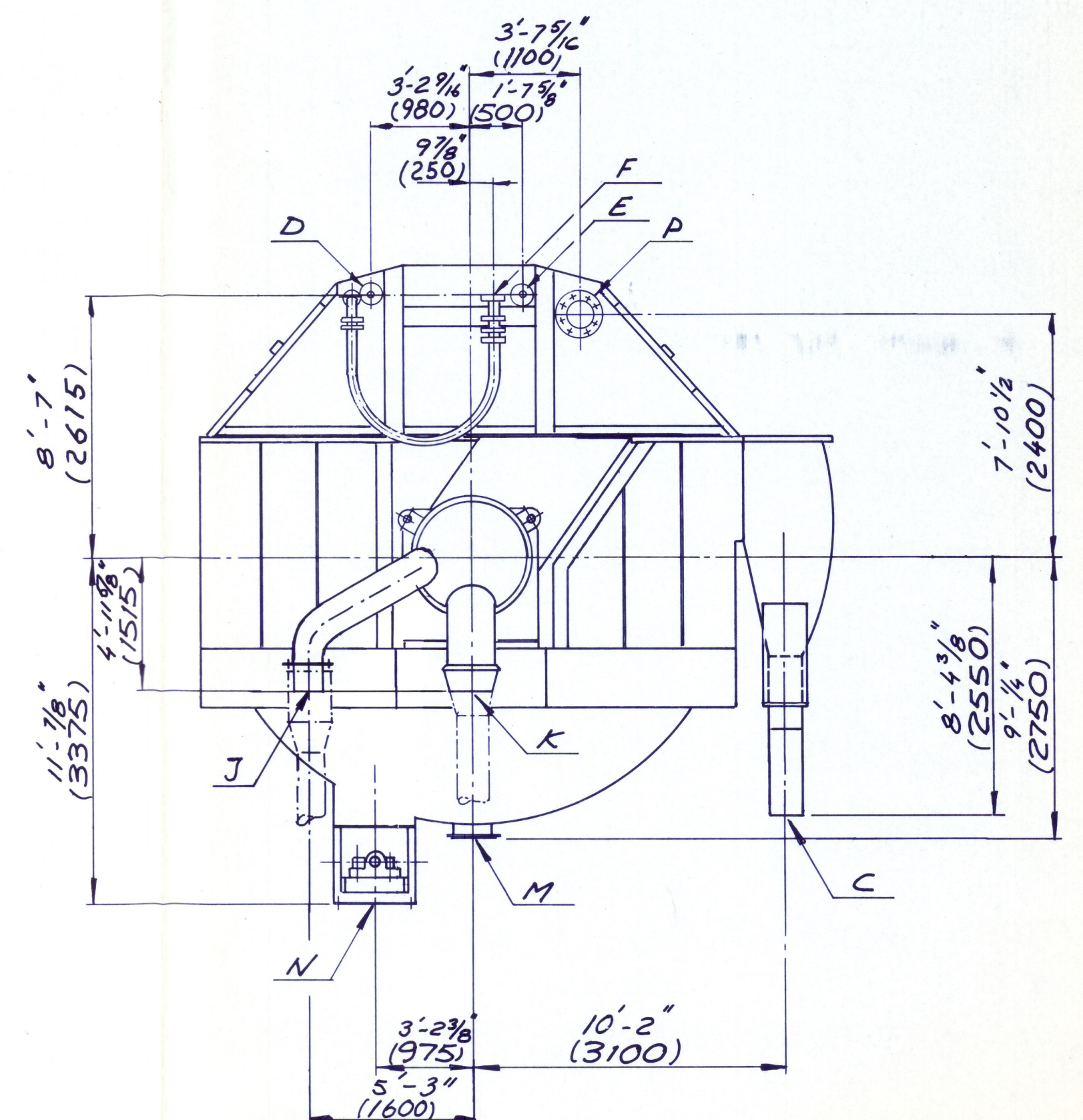
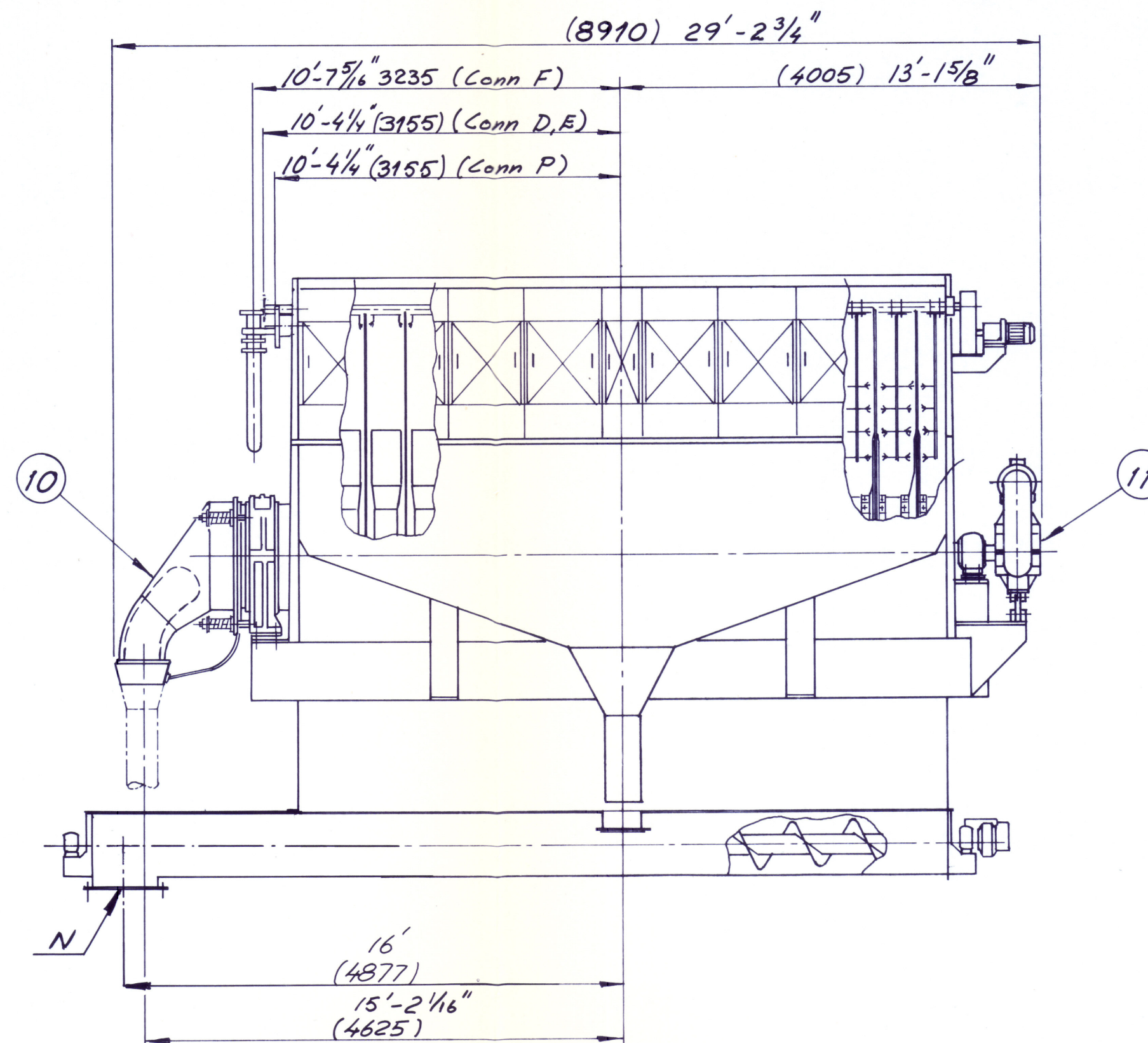
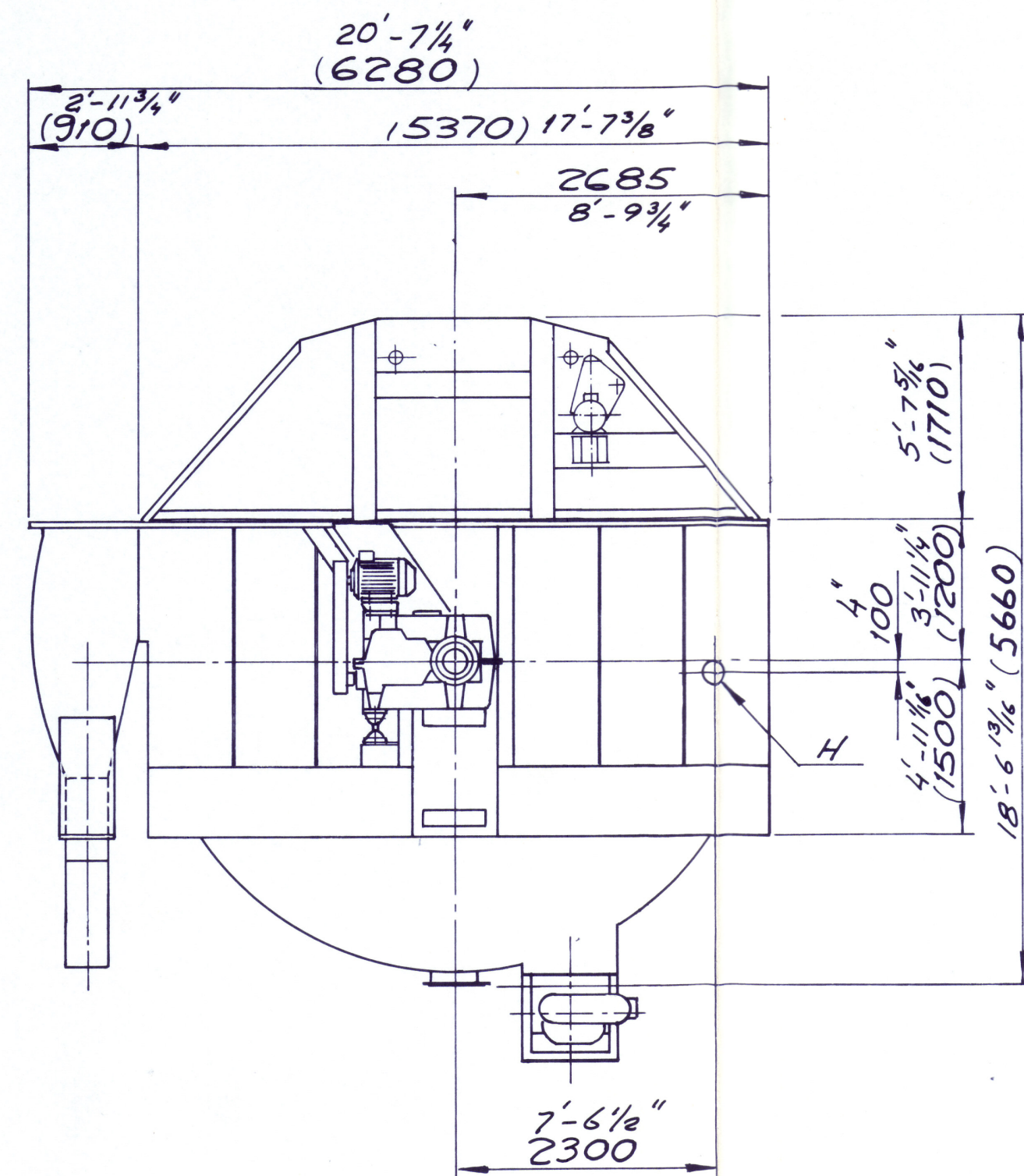


FOUNDATION SEE DRAWING 1-86609

GR # 2052330					
1	12	Skruvrivare	Conveyor repulper	Auflöseschnecke	1-86298
1	11	Drift	Drive	Antrieb	1-87753
1	10	Filtratventil	Filtrate valve	Filtratventil	1-86726-B
1	9	Inloppsåda	Feed box	Einlaufkasten	1-86389
1	8	Rännor	Aprons	Rinnen	1-85730-G
	7				
1	6	Katarvspolning	Discharge shower	Såtsabspülung	1-86646-G
1	5	Bännspolning	Slicing shower	Rinnenspülung	1-86772-G
1	4	Duksprits	Wire cleaning shower	Tuchspritzanordn.	1-86742-A
1	3	Huv	Hood	Häube	1-85320-G
1	2	Tråg	Vat	Trog	1-86289
1	1	Centralkmedsektorer	Centre shaft with sectors	Wellenm. sektorer	1-85326-G
A	Del	Benämning	Description	Benennung	Nr
1 12		12		12	
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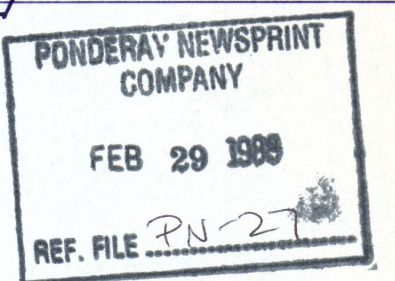
1	A	Ponderay Newspaper	70.00.23/2	837	296-11	W	
Anf	Uff	Anlaggung	Best nr	Lev	Uttamad		Anm Gmsk

Denna ritning förblir vår egendom och får inte utan vårt medgivande kopieras, visas eller utlånas till konkurrenslämnare eller efter behöriga personer. (Övertädelse beivras med stöd av gällande lag.)



Flänsar enl. 150 Lbs A.N.S.I.
Flange acc. 150 Lbs A.N.S.I.

	Benämning	Description	Benennung	Ant. Nr. Anz.	Ansl. Conn. Anschl.	Anmärkn. Remark Anmerkung
C	Inlopp	Inlet	Zulauf	1	20"	Weld conn.
D	Kattarspoln.	Discharge shower	Ablösespritze	1	3"	Flg
E	Rännspolning	Silencing shower	Rinnen-Spritze	1	4"	Flg
F	Duksprits	Wire cleaning shower	Reinigungsspritze	1	4"	Flg
H	Flänsfärnivågivare	Flange for level ind.	Flansche für Pegelz.	1	3"	Flg spec.
J	Förflätrat	Cloudy filtrate	Trüb-Filterat	1	14"	
K	Klarfiltrat	Clear filtrate	Klar-Filterat	1	14"	Reduced to 12"
M	Bottenavlopp	Drainage	Bodenentleerung	1	12"	Flg
N	Mossavlopp	Pulp outlet	Fangstoff	1	□	Spec. See below
P	Vesugning	Ventilation	Ventilierung	1	12"	Flg



FOUNDATION SEE DRAWING 1-85785

PONDERAY - MILL

88 02 22 ~~AA~~

Ans.
Conn.
Anschluss N
1:10

Equipment Nos - 204 2330

1	12	Skruvivar	Conveyor repulper	Auflöseschnecke	
1	11	Drift	Drive	Antrieb	
1	10	Filtratventil	Filtrate valve	Filtratventil	
1	9	Inloppsåda	Feed box	Einlaufkasten	
1	8	Rännar	Aprons	Rinnen	
	7				
1	6	Kataavspolning	Discharge shower	Satzabspülung	
1	5	Rännspolning	Sluicing shower	Rinnenspülung	
1	4	Dukspris	Wire cleaning shower	Tuchspritzanordn.	
1	3	Huv	Hood	Haube	
1	2	Trög	Vat	Trog	
1	1	Centralt med sektorer	Centre shade with sectors	Zentr. Wellen mit Sektoren	

A	Det	Bemärkning	Description	Benennung	Nr
Uit Art	Read			Total vikt	Erstatas av
Design Number	Drawn			Total weight	Replaced by
		871230 A	SKIVFILTER Ø5000		
Skala	Actual		DISCFILTER Ø5000	Erstatar	Reg. av
Scale	Checked		SCHEIBENFILTER Ø5000	Replaces drag	Reg. by
		150 1/10	x 9/14 DISCS		
		HEDEMORA ☆	ANS		Andr. Rev.
		HEDEMORA AB SWEDEN		1-85784	

1		Ponderay Newsprint	70.88.23/8			
Ant.	Utf.	Anläggning	Best. nr	Lev.	Utlämnad	Anm./Smst

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