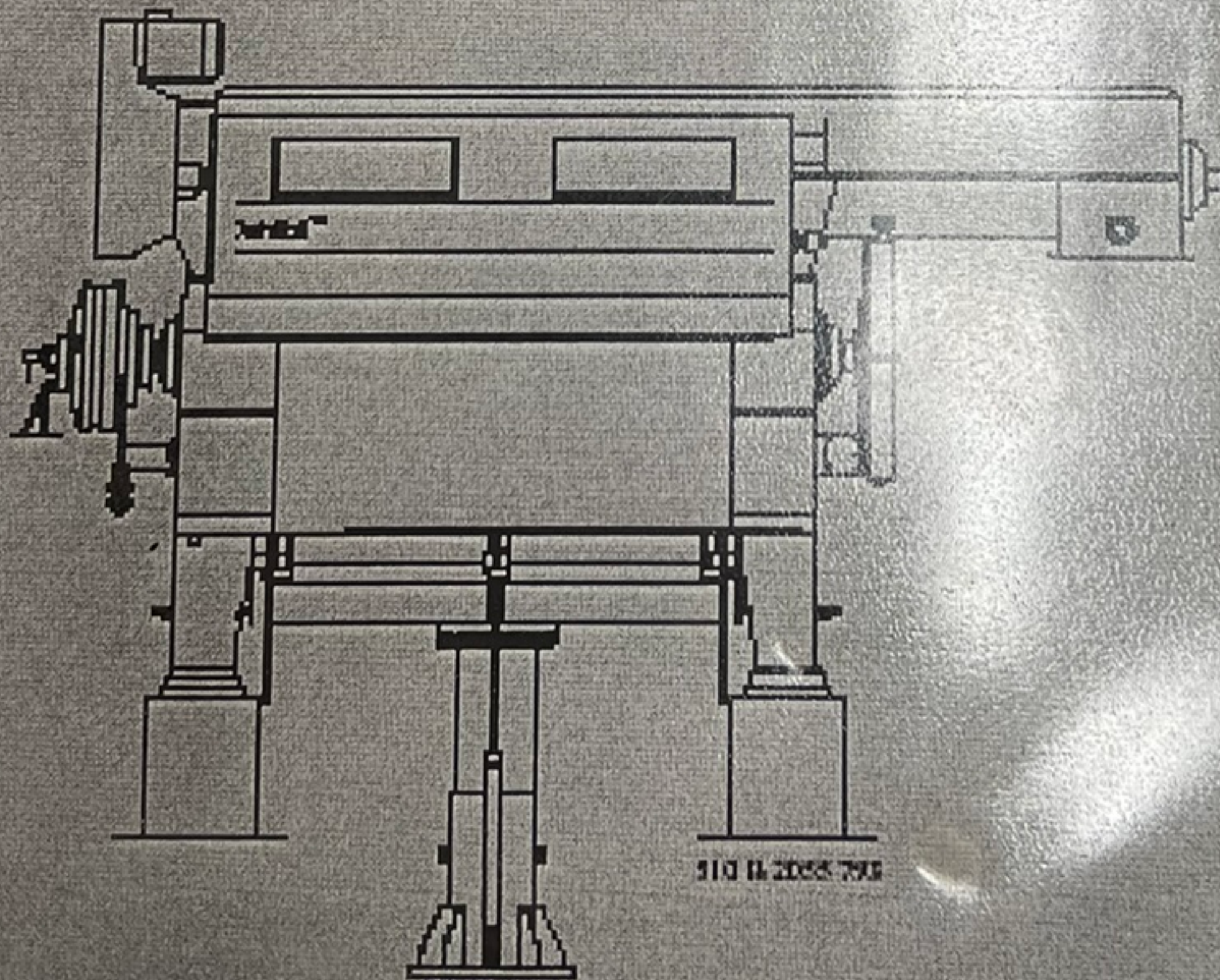




PONDERAY NEWSPRINT USK, WASHINGTON

TMP POST WASHING
PROJECT NO. 140109



Machine:

These maintenance instructions deals with the Metso Paper Sundsvall AB dewatering press TRPW-15XX.

Type designation:

TRPW-15XX

Manufacturer:

Metso Paper Sundsvall AB
SE-851 94 Sundsvall
Sweden
Tel. +46 60-165000
Fax. +46-60-165500

Publisher/Copyright:

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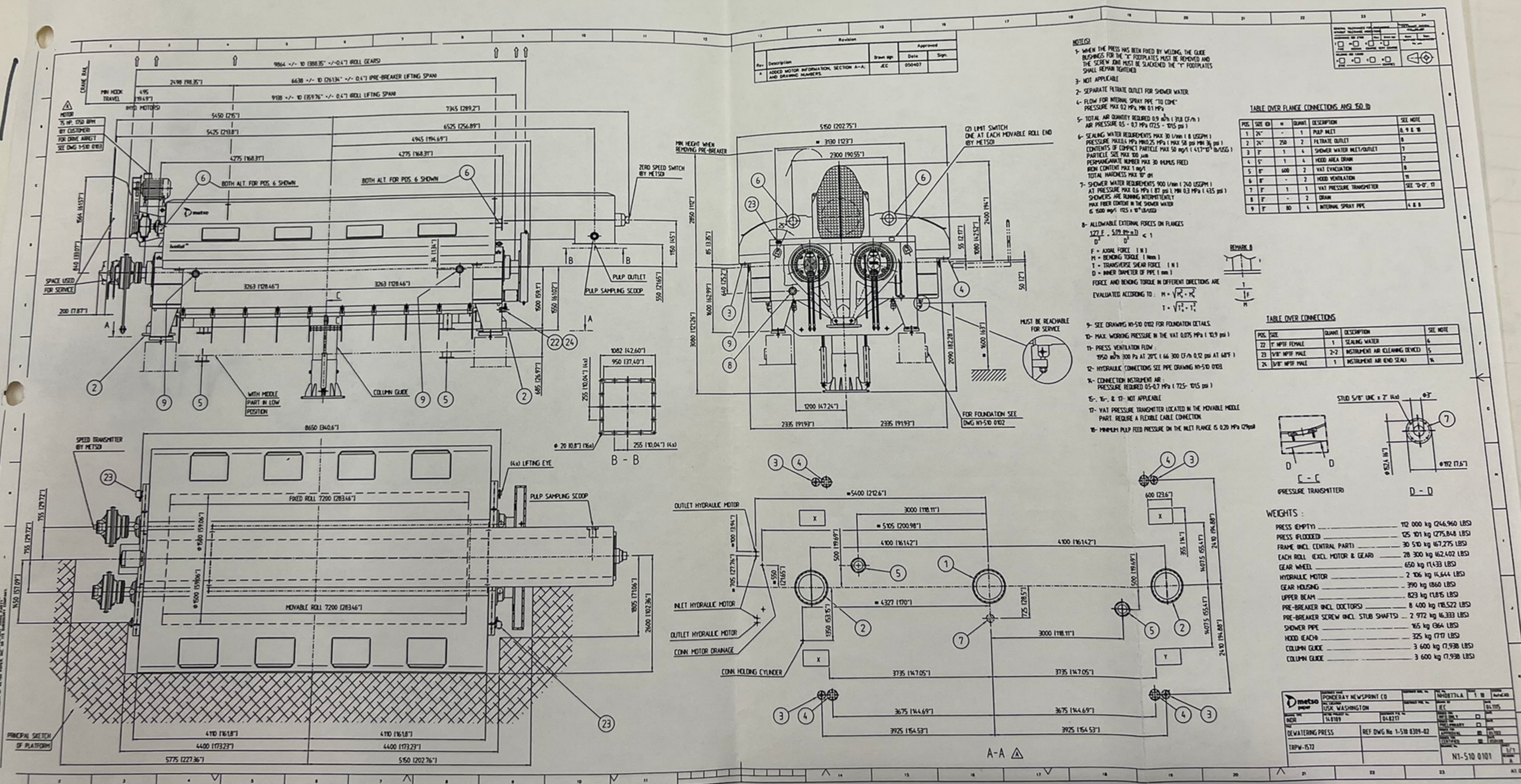
Registration No.:

510 M 2055 950-02

Revision:

A

di



Rev.	Description	Drawn by	Date	Sign.
A	ADDED MOTOR INFORMATION, SECTION A-A, AND DRAWING NUMBERS.	JEC	050407	

- NOTES:**
- WHEN THE PRESS HAS BEEN FIRED BY WELDING, THE GUIDE BUSHINGS FOR THE "X" FOOTPLATES MUST BE REMOVED AND THE SCREW AND MUST BE SLACKENED THE "Y" FOOTPLATES SHALL REMAIN TIGHTENED.
 - NOT APPLICABLE.
 - SEPARATE FILTRATE OUTLET FOR SHOWER WATER.
 - FLOW FOR INTERNAL SPRAY PIPE "TO COME" PRESSURE MAX 0.2 MPa (30 PSI).
 - TOTAL AIR QUANTITY REQUIRED 0.9 m³ (31.8 CFM) AIR PRESSURE 0.5 - 0.7 MPa (72.5 - 101.5 PSI).
 - SEALING WATER REQUIREMENTS MAX 30 L/min (8 USGPM) PRESSURE MAX 0.2 MPa (30 PSI) MAX 50 PSI MAX 36 PSI CONTENTS OF COMPACT PARTICLE MAX 50 mg/l (417 mg/l) PARTICLE SIZE MAX 100 µm PERMANENTLY NUMBER MAX 30 (PLUS FREE) RICH CONTENT MAX 1 mg/l TOTAL HARDNESS MAX 10 mg/l
 - SHOWER WATER REQUIREMENTS 900 L/min (240 USGPM) AT PRESSURE MAX 0.5 MPa (72.5 PSI) MAX 0.3 MPa (43.5 PSI) SHOWERS ARE RUNNING INTERMITTENTLY MAX FIBER CONTENT IN THE SHOWER WATER 6 600 mg/l (165 x 10³ lb/1000 gal)
 - ALLOWABLE EXTERNAL FORCES ON FLANGES

$$\frac{127.2 \cdot F \cdot S \cdot 0.9 \cdot 0.9 \cdot 1}{D} < 1$$

$$D =$$

$$F =$$
 AXIAL FORCE (N)

$$M =$$
 BENDING TORQUE (Nm)

$$T =$$
 TRANSVERSE SHEAR FORCE (N)

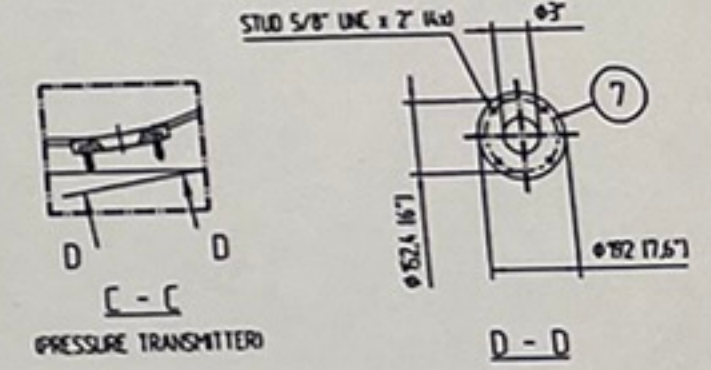
$$D =$$
 INNER DIAMETER OF PIPE (mm)
 FORCE AND BENDING TORQUE IN DIFFERENT DIRECTIONS ARE EVALUATED ACCORDING TO: $M = \sqrt{M_x^2 + M_y^2}$
 $T = \sqrt{T_x^2 + T_y^2}$
 - SEE DRAWING N1-510 0102 FOR FOUNDATION DETAILS.
 - MAX. WORKING PRESSURE IN THE VAT 0.075 MPa (10.9 PSI).
 - PRESS VENTILATION FLOW: 1950 m³/h 300 Pa AT 20°C (1.66 300 CFM 0.12 PSI AT 68°F).
 - HYDRAULIC CONNECTIONS SEE PIPE DRAWING N1-510 0103.
 - CONNECTION INSTRUMENT AIR: PRESSURE REQUIRED 0.5-0.7 MPa (72.5-101.5 PSI).
 - 15, 16, & 17: NOT APPLICABLE.
 - VAT PRESSURE TRANSDUCER LOCATED IN THE MOVABLE MIDDLE PART. REQUIRE A FLEXIBLE CABLE CONNECTION.
 - MINIMUM PUMP FEED PRESSURE ON THE INLET FLANGE IS 0.20 MPa (29 PSI).

TABLE OVER FLANGE CONNECTIONS AND ISO ID

POS.	SIZE	QTY	DESCRIPTION	SEE NOTE
1	2"	1	PUMP INLET	8, 9 & 10
2	2"	2	FILTRATE OUTLET	8
3	1"	4	SHOWER WATER INLET/OUTLET	7
4	5"	1	HOOD AREA DRAIN	2
5	8"	2	VAT EVACUATION	8
6	8"	2	HOOD VENTILATION	11
7	1"	1	VAT PRESSURE TRANSDUCER	SEE "D-D", 17
8	2"	2	DRAIN	
9	3"	4	INTERNAL SPRAY PIPE	4 & 8

TABLE OVER CONNECTIONS

POS.	SIZE	QTY	DESCRIPTION	SEE NOTE
22	1" NPT FEMALE	1	SEALING WATER	6
23	1/2" NPT MALE	2-2	INSTRUMENT AIR (CLEANING DEVED)	5
24	1/2" NPT MALE	1	INSTRUMENT AIR END SEAL	16



WEIGHTS:

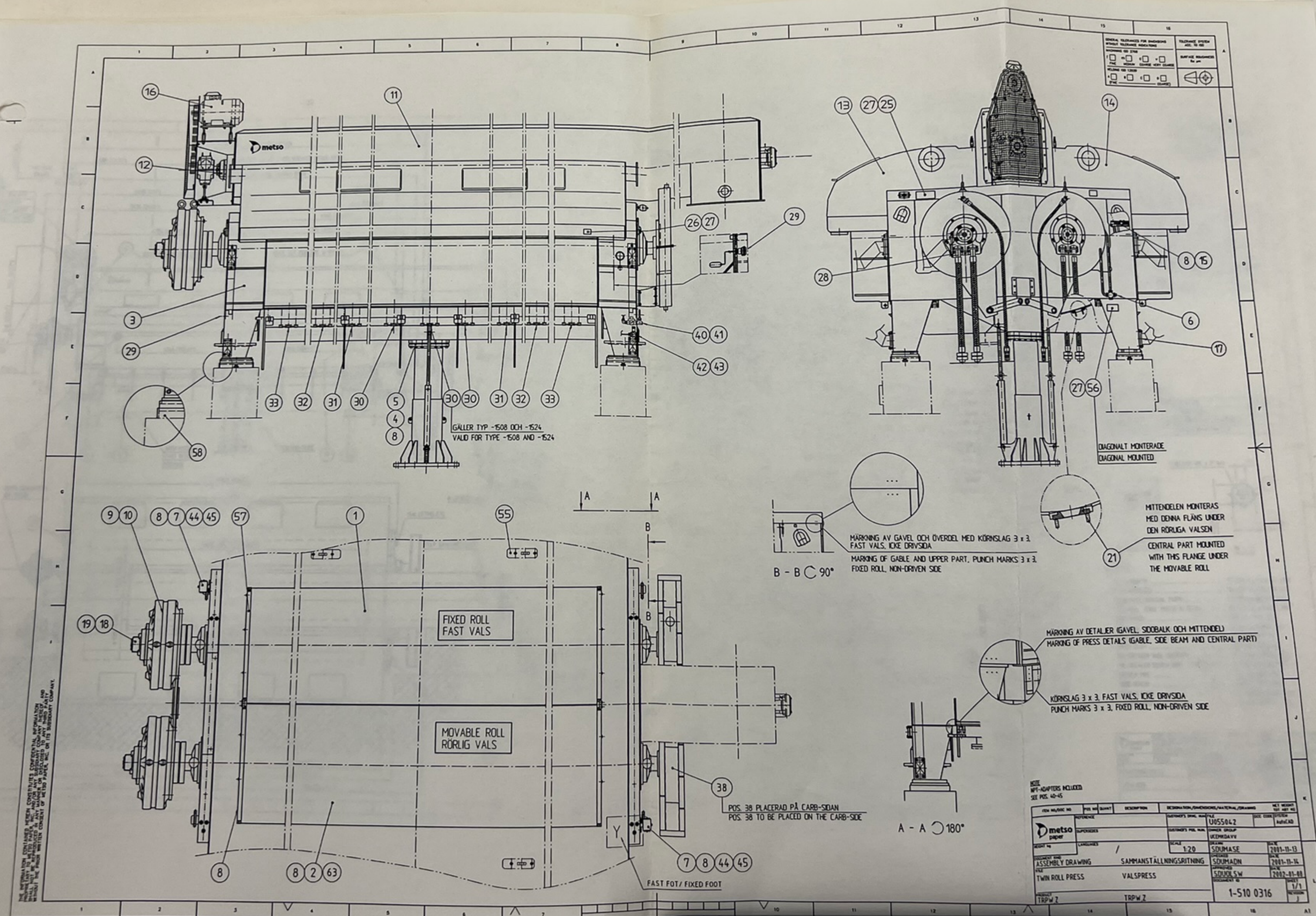
PRESS (EMPTY)	112 000 kg (246,960 LBS)
PRESS (FLOODED)	125 101 kg (275,848 LBS)
FRAME UNCL. CENTRAL PART	30 510 kg (67,275 LBS)
EACH ROLL UNCL. MOTOR & GEAR	28 300 kg (62,402 LBS)
GEAR WHEEL	650 kg (1,433 LBS)
HYDRAULIC MOTOR	2 106 kg (4,644 LBS)
GEAR HOUSING	390 kg (860 LBS)
UPPER BEAM	823 kg (1,815 LBS)
PRE-BREAKER UNCL. DOCTORS	8 400 kg (18,522 LBS)
PRE-BREAKER SCREW UNCL. STUB SHAFTS	2 972 kg (6,553 LBS)
SHOWER PIPE	165 kg (364 LBS)
HOOD EACH	325 kg (717 LBS)
COLUMN GUIDE	3 600 kg (7,938 LBS)
COLUMN GUIDE	3 600 kg (7,938 LBS)

DEWATERING PRESS

PROJECT: PONDORAY NEWSPRINT CO
 LOCATION: LOS ANGELES
 DRAWN BY: JEC
 CHECKED BY: JEC
 DATE: 04/21/07
 REF: DWG No 1-510 0309-02
 TWPW-1572

11-510 0101

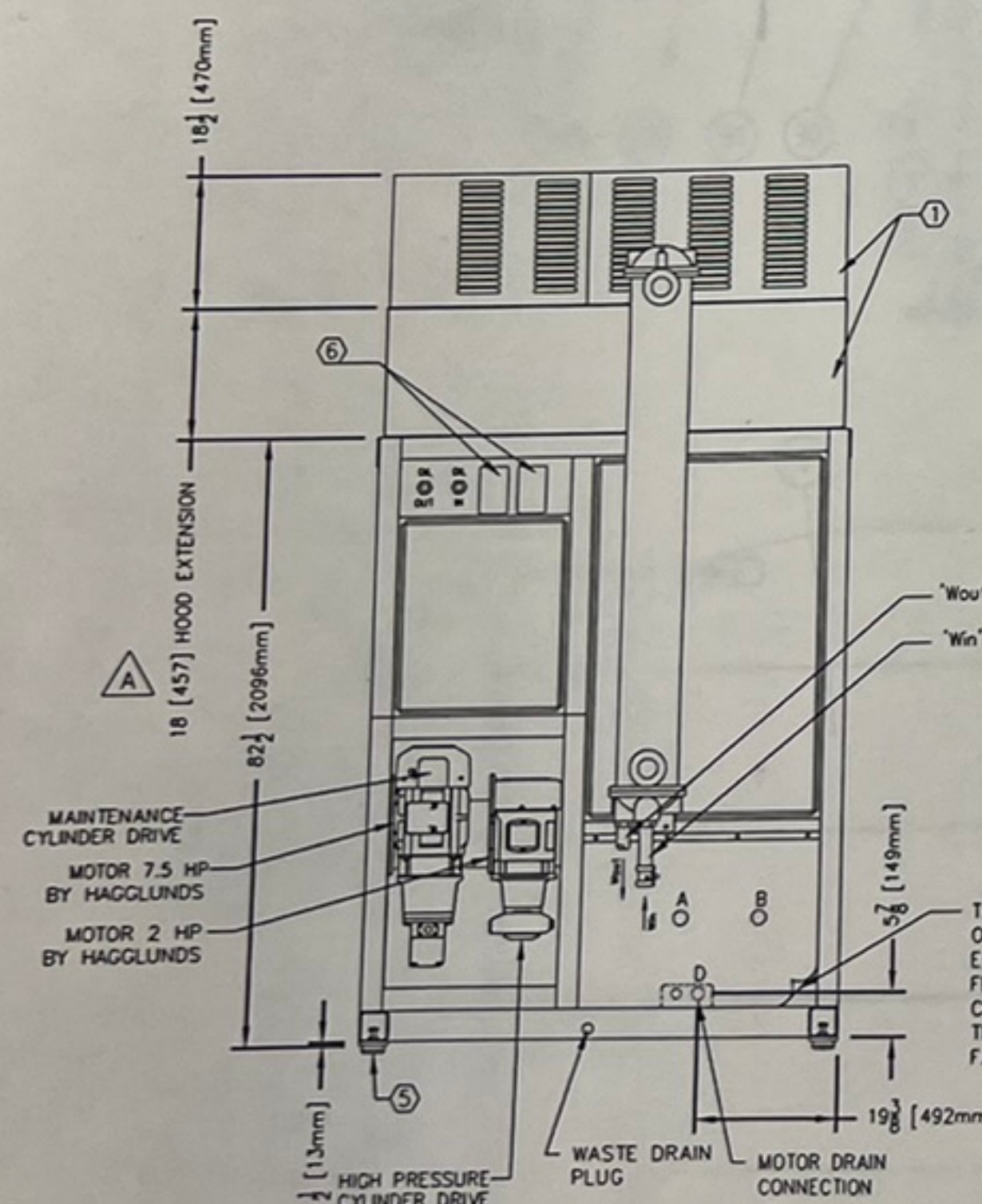
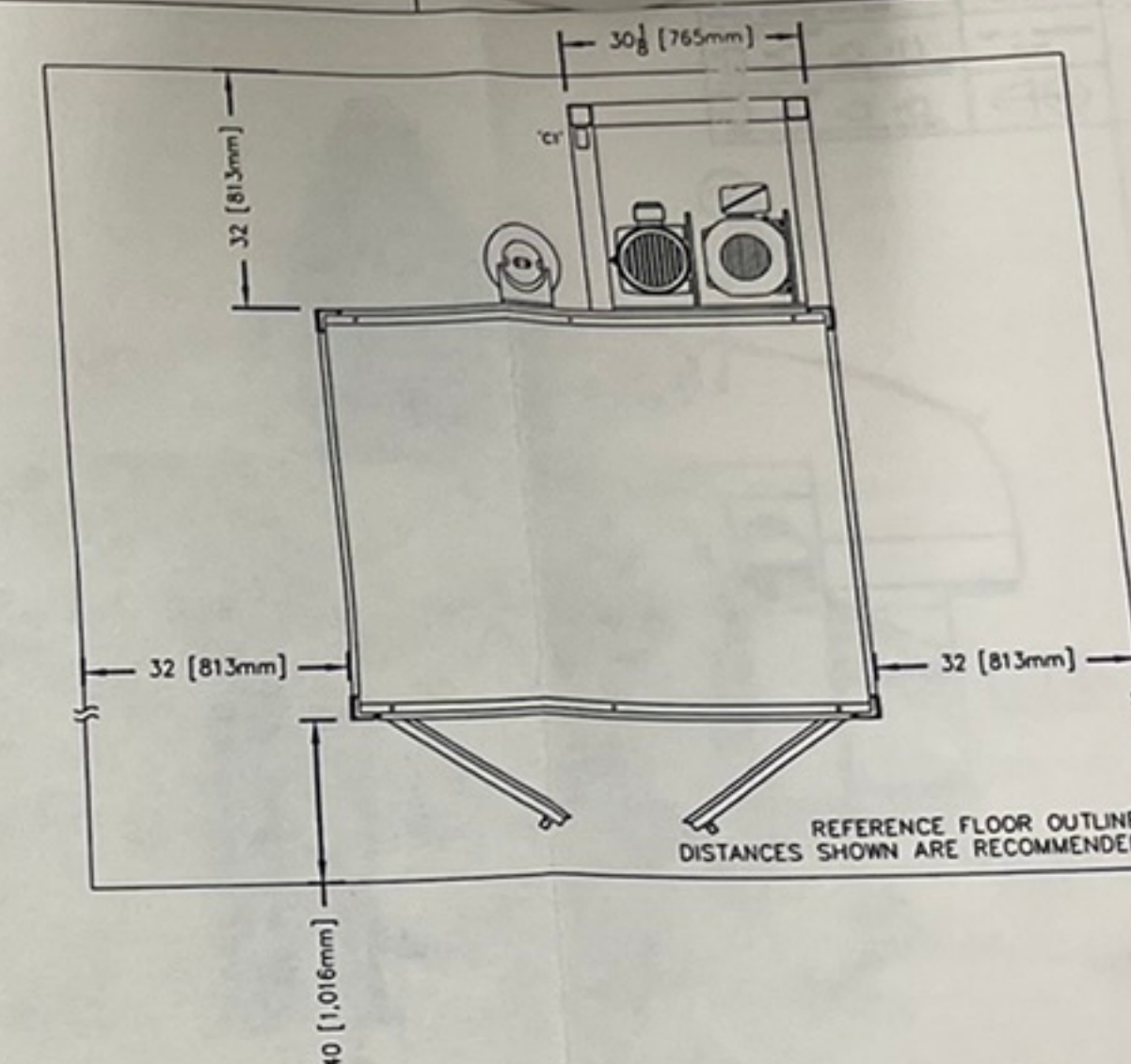
yd



CUSTOMER CONNECTION POINTS	
POWER UNIT	
PUMP PORTS 'A' & 'B'	2" SAE J518C FLANGE CODE 62-6000 PSI
DRAIN PORT 'D'	1 1/4" JIC 37" MALE FLARE Δ
OIL FILL CONNECTION	3/4" NPT FEMALE (QUICK DISCONNECT)
WASTE DRAIN	1" NPT [PLUGGED]
COOLER PORTS 'Win' & 'Wout'	1 1/4" NPT FEMALE
AUX. PORT 'C1'	3/4" SAE J518C FLANGE CODE 62
AUX. PORTS 'M1' & 'M2'	3/4" SAE J518C FLANGE CODE 61
AUX. PORT 'HP'	3/8" JIC 37" MALE FLARE Δ
HYDRAULIC MOTOR	
MAIN PORTS 'A' & 'C'	1 1/2" SAE J518C FLANGE CODE 62-6000 PSI
CASE DRAIN PORT 'D1'	1 1/4" JIC 37" MALE FLARE [ADAPTED FROM 1 1/4" BSP]
CASE DRAIN PORT 'D2'	1 1/4" BSP FOR VSP PLUG

NOTES

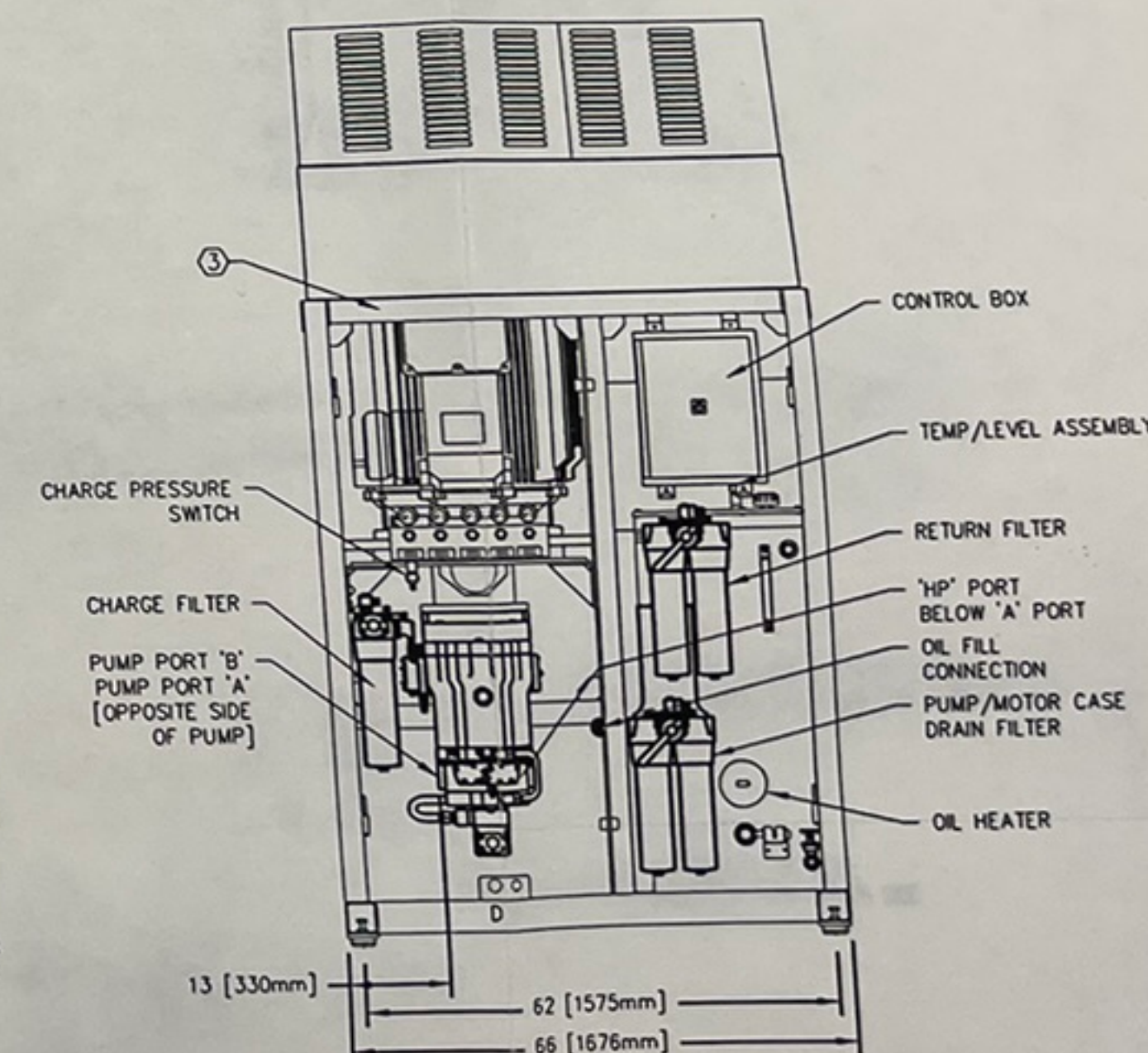
- TOP COVER MUST BE REMOVED BEFORE LIFTING THE POWER UNIT AND/OR PUMP/MOTOR ASSEMBLY.
 - FOUR (4) LIFTING POINTS MUST BE USED WHEN LIFTING THE POWER UNIT.
 - FRONT BEAM IS REMOVABLE FOR EASE OF REMOVING PUMP/MOTOR ASSEMBLY.
 - DISTANCE TO LIFT PUMP/MOTOR ASSEMBLY IS 2-3" NOMINAL TO REMOVE FROM FRONT OF UNIT. PUMP/MOTOR ASSEMBLY WEIGHT IS 3500 lbs. APPROXIMATELY.
 - FOR LEVELING POWER UNIT USING CABINET FEET.
 - RECOMMENDED ELECTRICAL CONNECTION POINTS
- A. POWER UNITS CAN BE INSTALLED SIDE BY SIDE IF THE SIDE PANELS ARE REMOVED.
- B. DIMENSIONS THAT ARE SHOWN ARE BASED ON FRACTIONAL INCH MEASUREMENTS.



HEIGHT IS EXTENDED 4" FROM PREVIOUS DESIGN

THERE MUST BE AN OPENING IN THE LOWER EDGE OF THE RUBBER FLAP, TO ALLOW THE COOLING AIR FROM THE ELECTRIC MOTOR FAN TO EXIT

MOTOR/PUMP ASSEMBLY IS OFFSET 3" TO THE BACK OF POWER UNIT



metso paper

N1-510 0106
NH08839A

SHEET
1/1
REV
A

MENT SUBMITTAL STATUS
PRELIMINARY
REFERENCE ONLY
FOR CONSTRUCTION

APPROVAL
CERTIFIED
AS BUILT

CUSTOMER REF: P.O. 560/400809

HAGGLUNDS JOB NO.: 2004 045

BY: BRIAN HOWELL DATE: 4-11-2005

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Dry Weight
8100 lbs (3681 kgs)

Total Weight
8700 lbs (3954 kgs)

THIRD ANGLE

DO NOT SCALE DRAWING

UNLESS OTHERWISE NOTED DIMENSIONS ARE FRACTIONAL INCH

Model Code
PAC-402-300-400-11-0011-10A-0000-1-2300/60

Designed
NCS 4-11-2005

Checked
HDR 4-11-2005

Approved
CBH 4-11-2005

DATE ISSUED BY REV DATE ISSUED BY REV

Customer Reference
P.O. 560/400809

Drawing Description
GENERAL ARRANGEMENT

PAC-402-300-400

GA-2004 045

ECN Number
ECN-00000567

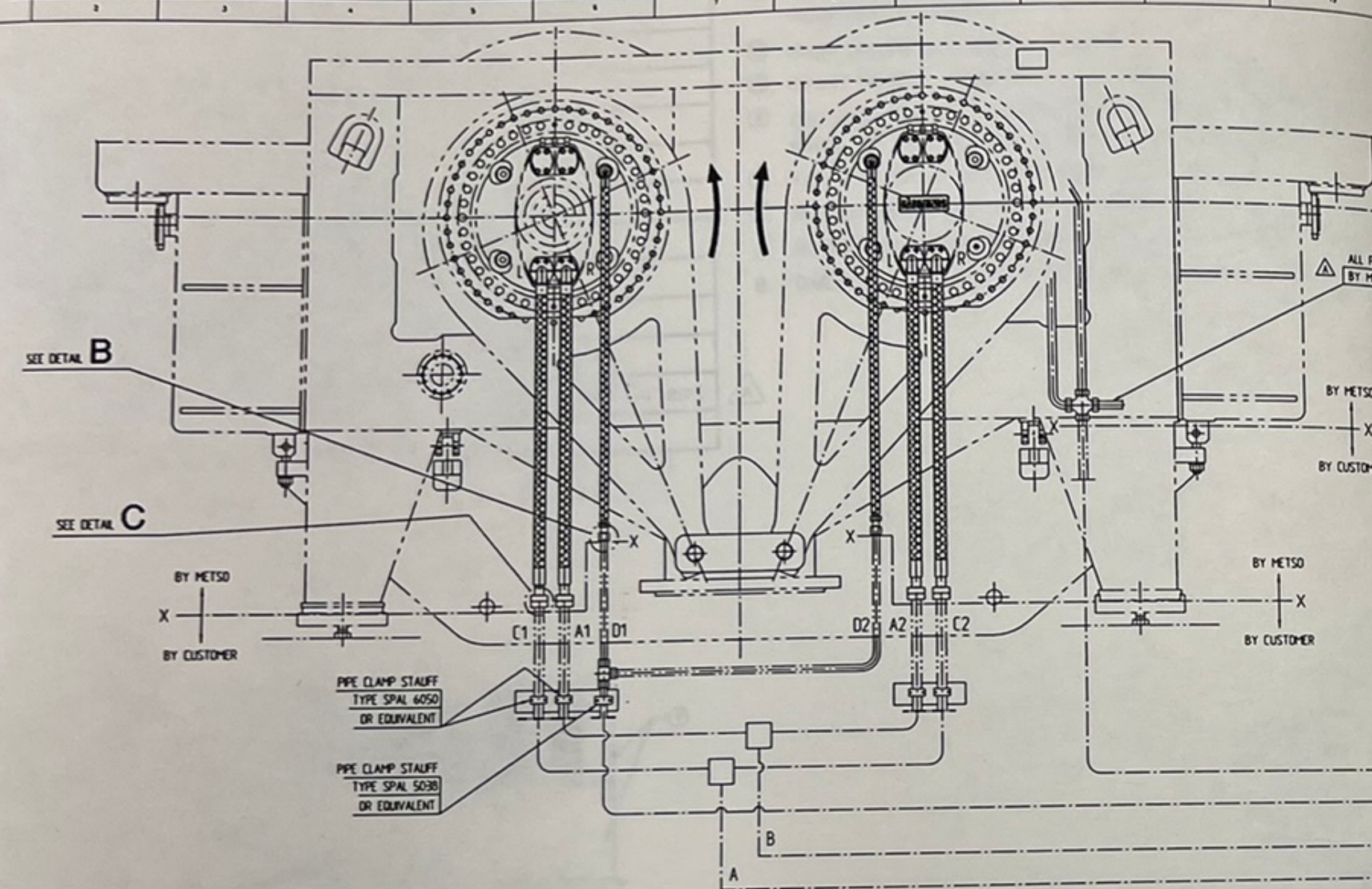
Drawn By
SETTLEMIRE

Date Drawn
12-13-2004

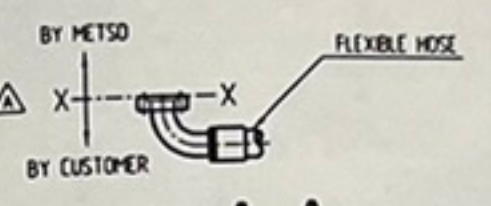
Revision
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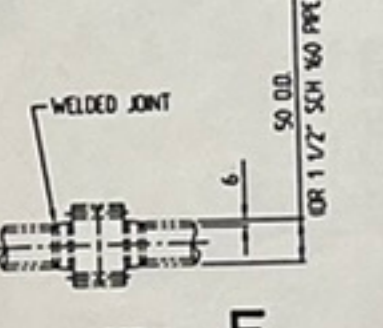
CAUTION: CONTENTS DO NOT MIX



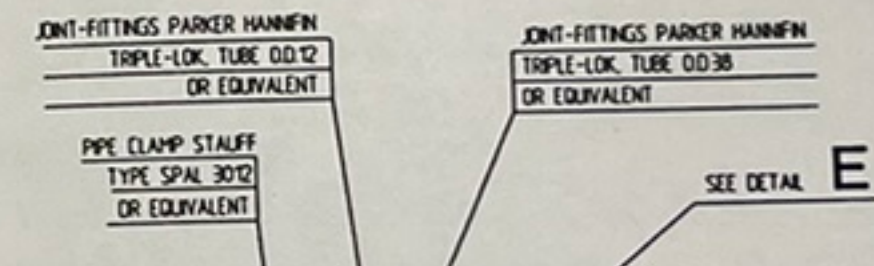
FLANGE 2" SAE CODE 62 FOR "A" AND "B" PORTS
FLANGE 3/4" SAE CODE 61 FOR "M" AND "N" PORTS
FLANGE 3/4" SAE CODE 62 FOR "T" PORT



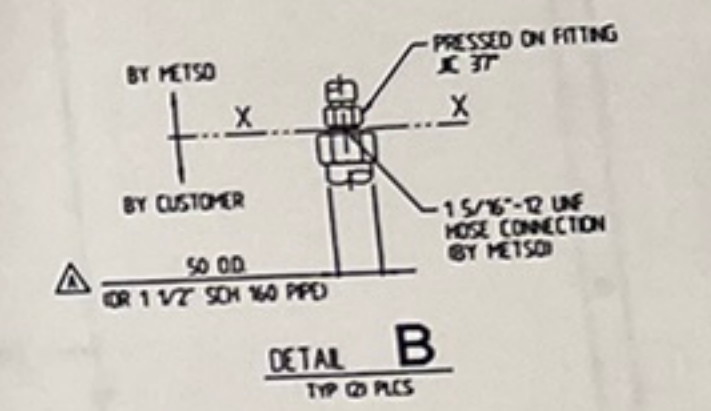
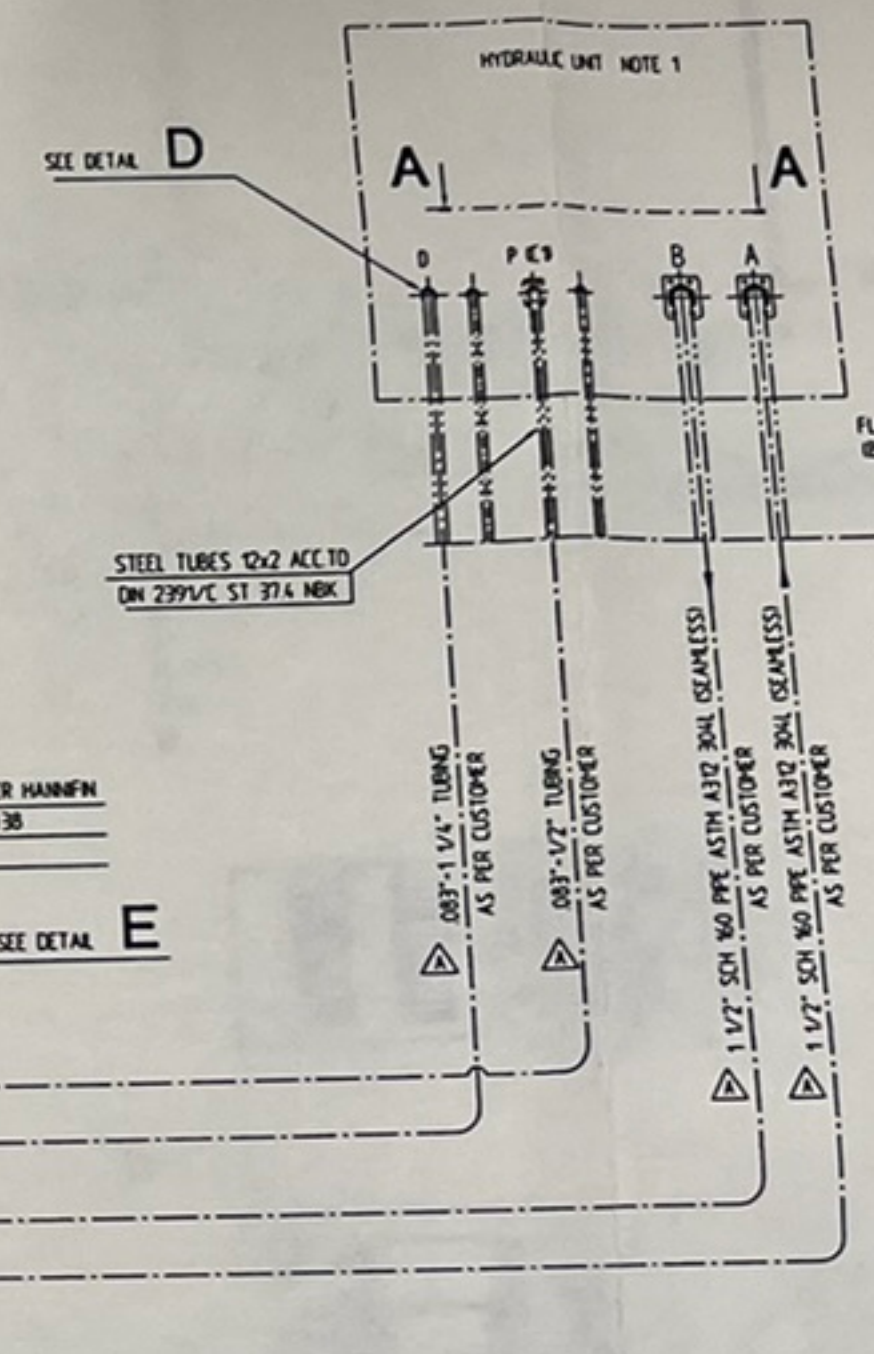
VIEW A-A



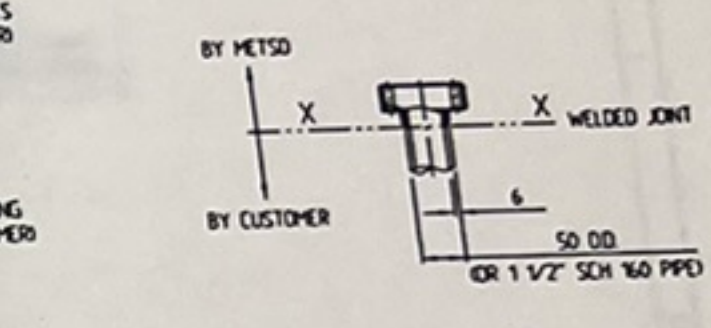
DETAIL E



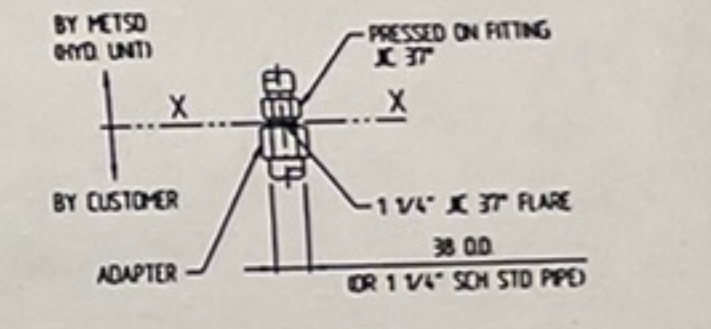
JOINT-FITTING PARKER HANIFIN
TRIPLE-LOK TUBE OD.12
OR EQUIVALENT
PIPE CLAMP STAUFF
TYPE SPAL 3012
OR EQUIVALENT



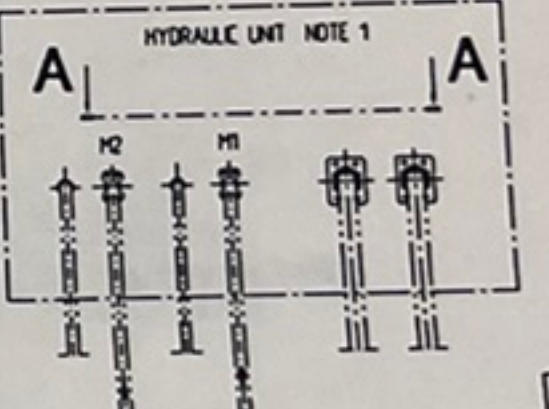
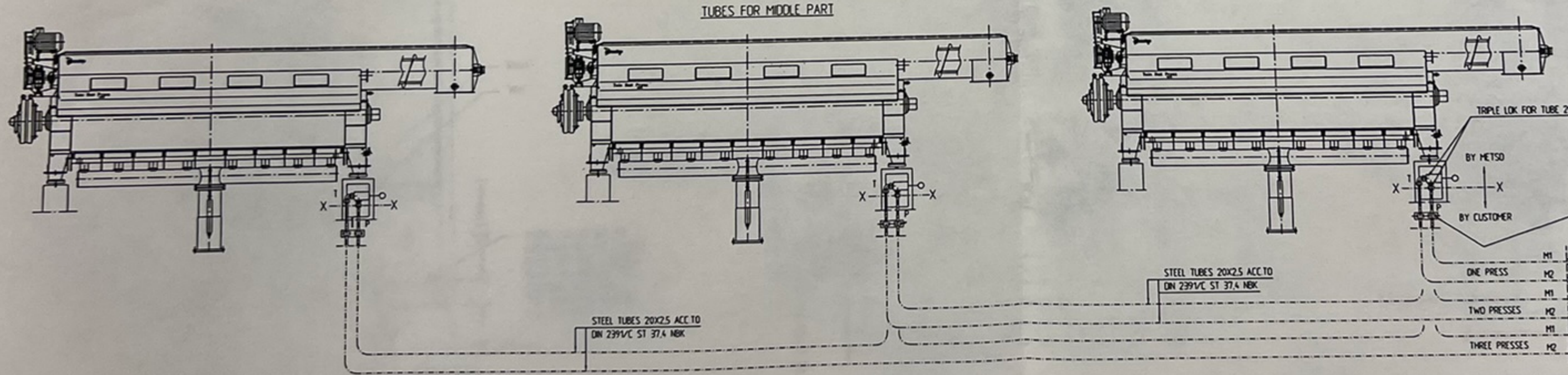
DETAIL B



DETAIL C



DETAIL D



NOTE 1
LOCATION OF CONNECTIONS
SEE DIMENSION DRAWING
FOR HYDRAULIC UNIT

DELIVERY LIMIT
THE TUBES HAVE TO BE COLD BENDED
(WELDING ONLY IN CONNECTION WITH
THE FLANGES)

Dmetso		POWER RAY NEWSPRINT CO		NOV07/04		1 10		A4/0	
USK WASHINGTON		14/01/01		14/01/01		14/01/01		14/01/01	
TUBE CONNECTION DIAGRAM		REF DWG No 1-510 0813		1/1		1/1		1/1	
DEWATERING PRESS		TRPM-1572		1/1		1/1		1/1	