




DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



Contract No.: DPIC/98-12	DOCUMENT TITLE: Liquid Receiver Drawing	POI: IFA	Rev.: D1
	DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0021	Sheet 1 of 3	

Liquid Receiver Drawing (D-PK6101-2)

PURCHASER'S COMMENT/APPROVAL STATUS						Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)					
2	AN: Approved With Minor Comments (Fabrication may Proceed)					
3	NF: Approved With Comments (Fabrication not Proceed)					
4	RJ: Rejected					Item No. (Tag No.): PK-6101
5	NR: Not be Returned					
Date: XX.XX.XX			Signature:			Vendor Doc. No: DPIC9812-000-VD-1002-ME-DWG-0021-D0
						
D1	20 -Feb-22	IFA	A.VOSOUGH	DR.A.NEJATI	DR.A.NEJATI	
D0	28-DEC.-21	IFA	A.VOSOUGH	DR.A.NEJATI	DR.A.NEJATI	
REV.	DATE ISSUE	Purpose of Issue	PREPARED	CHECKED	APPROVED	

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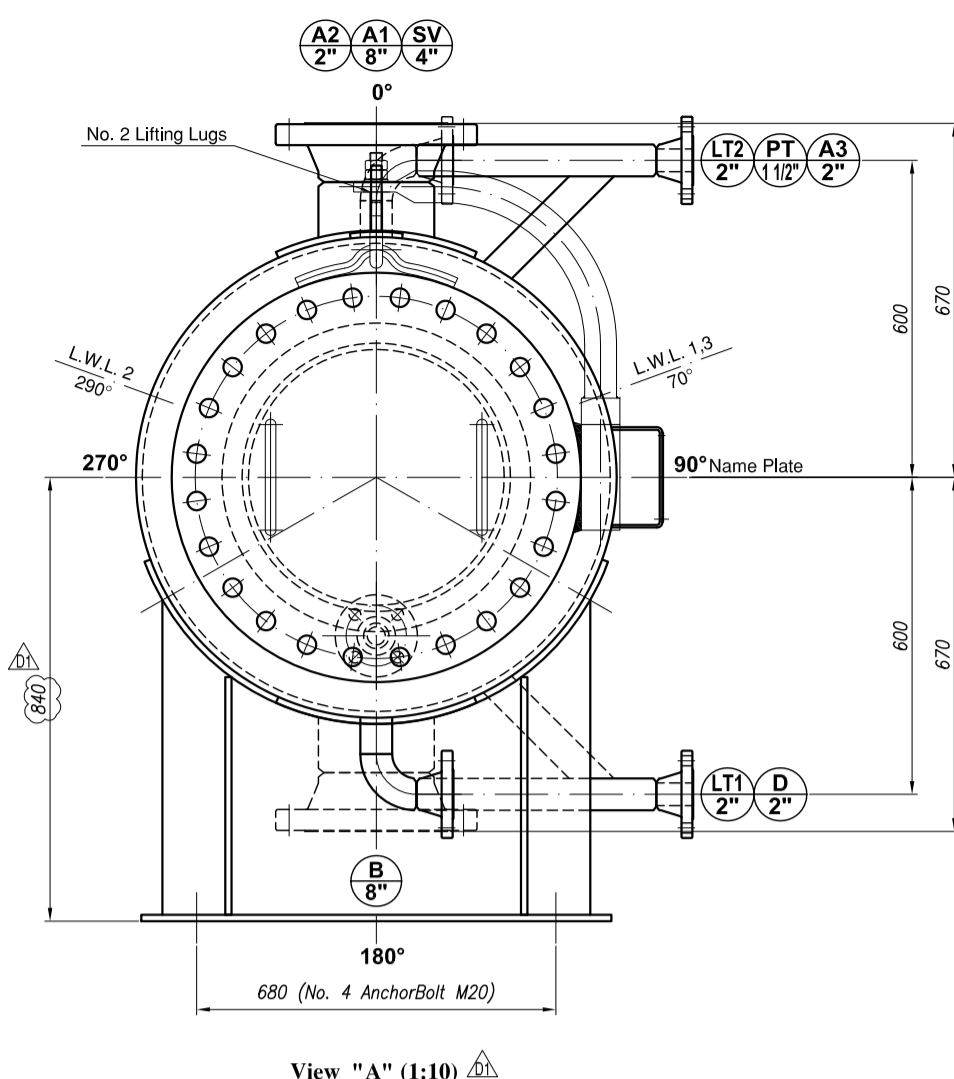
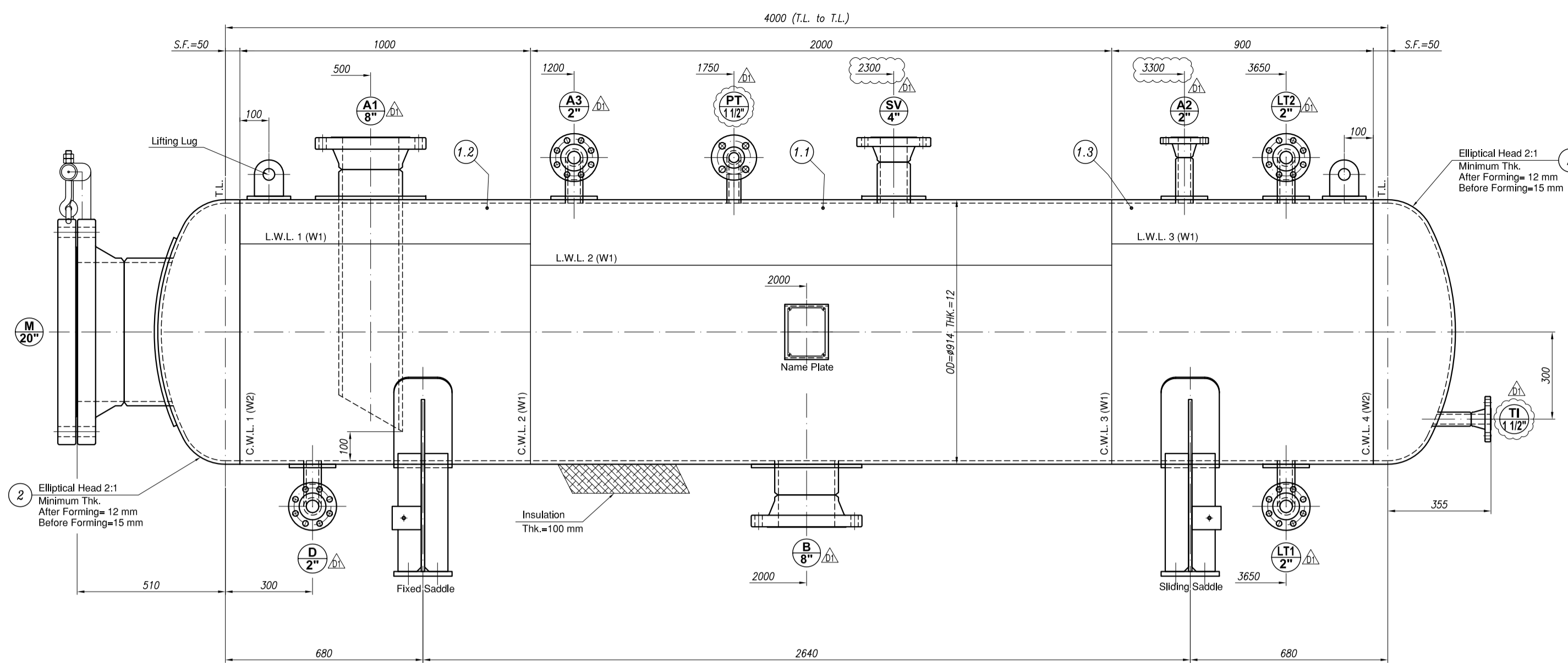
Sheet 2 of 3

TABULATION OF REVISED PAGES

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
1	x	x			
2	x	x			
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General View (1:10)

View "A" (1:10)

NOZZLE DATA										
Mark No.	Qty	Size	SR. TYP.	Flange	Flange	Cl. T/L	CD	PG	Description	Part No.
A1	1	8"	SCH 80	300	W.N. R.F.	670	A380	12	Propylene Inlet	-
A2	1	2"	SCH 160	300	W.N. R.F.	670	A180	12	Spindle Inlet	-
A3	1	2"	SCH 160	300	W.N. R.F.	600	A180	12	Flange/Spindle	-
B	1	8"	SCH 80	300	W.N. R.F.	670	A380	12	Propylene Outlet	-
D	1	2"	SCH 160	300	W.N. R.F.	600	A180	12	Drain	-
M	1	20"	-	15	W.N. R.F.	510	A460	15	Manhole	-
L1	1	2"	SCH 160	300	W.N. R.F.	670	A180	12	Ins. Inlet/Outlet	-
L2	1	2"	SCH 160	300	W.N. R.F.	670	A180	12	Ins. Inlet/Outlet	-
SV	1	4"	SCH 120	300	W.N. R.F.	670	A250	12	Safety Valve	-
PT	1	1/2"	SCH XXS	300	W.N. R.F.	600	-	-	Pressure Indicator	-
T	1	1/2"	SCH XXS	300	W.N. R.F.	350	-	-	Temperature Gauge	-

DESIGN DATA	
FLUID	PROPYLENE
OPERATING PRESS. (BAR)	18.8
FLUID DENSITY (kg/m ³)	467
RT. OUT OPERATING TEMP. (°C)	50
POST WELD HEAT TREATMENT	YES
DESIGN CODE CLASS. TYP.	ASME SECTION VIII
DESIGN CODE CLASS. NO.	1
EXTERNAL DESIGN PRESS. (BAR)	23.7
INTERNAL DESIGN PRESS. (BAR)	18.8
TEMPERATURE (°C)	135
EXTERNAL DESIGN PRESS. (BAR)	23.7
INTERNAL DESIGN PRESS. (BAR)	18.8
WORKING TEST PRESS. (BAR)	30
WIND LOAD (kN/m ²)	0.5
SEISMIC LOAD (kN/m ²)	0.5
WIND LOAD (kN/m ²)	0.5
SEISMIC LOAD (kN/m ²)	0.5
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WIND LOAD (kN/m ²)	0.5
SEISMIC LOAD (kN/m ²)	0.5

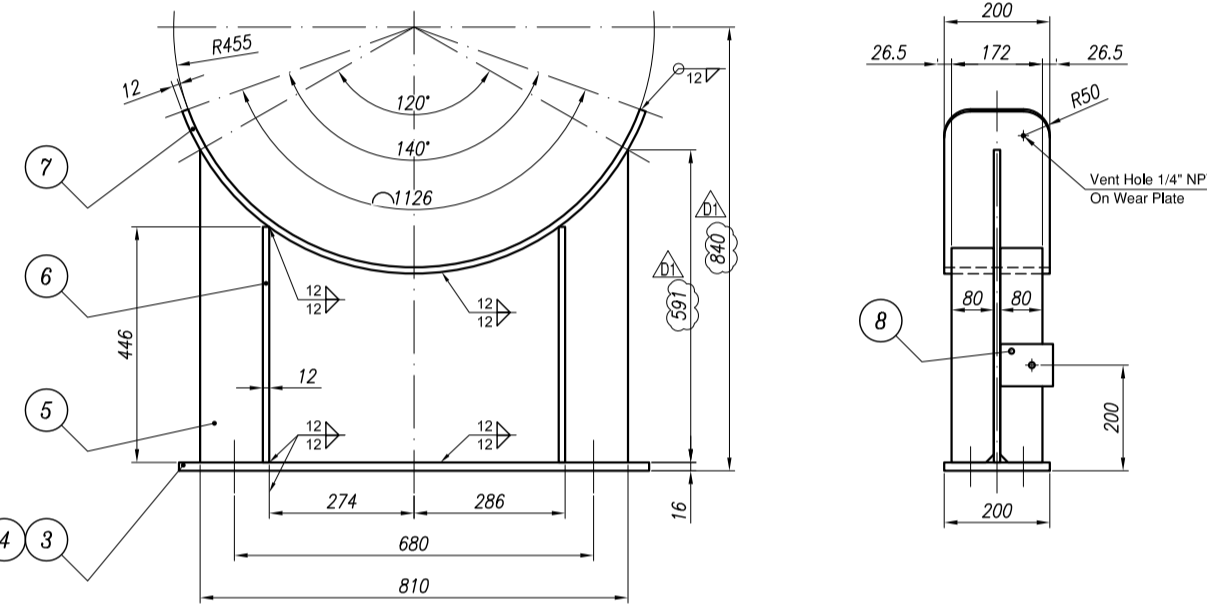
MAX. ALLOWABLE NOZZLE LOADS TABLE						
MARK NO.	SIZE	F _A	F _C	F _L	M _r	M _c
A1	8"	8000	8000	8000	8400	6800
B	8"	8000	8000	8000	8400	6800
SV	4"	4000	4000	4000	2100	1700
A2	2"	2000	2000	2000	500	400
A3	2"	2000	2000	2000	500	400
D	2"	2000	2000	2000	500	400
L1, L2	2"	2000	2000	2000	500	400

- GENERAL NOTES**
- All dimensions are in millimeters unless otherwise noted.
 - Projection of nozzles are measured from flange face to center line of vessel or flange face to T.L.
 - All elevations are measured from bottom T.L. unless otherwise specified.
 - Boil holes for flanges shall be straddled to equipment main axis.
 - Stator thickness is minimum after forming thickness of straight flange of elliptical heads.
 - Gasket material: Jacketed Metal Stainless Steel, graphite filler, 3.2 mm Thk.
 - Full radiographic examination shall be performed for nozzle necks made by plate.
 - Flange Face finishing shall be smooth with 125 micro inch maximum to 250 micro inch maximum as per ASME B.16.5 for 24" and less. Also ASME B16.47 SERIES B for more than 24".
 - Packing & marking of loose and spare parts shall be done by vendor.
 - Test pressure calculated as per UG-99 (380).
 - All stud bolts shall be supplied galvanized, (ASTM-A653-SC3-TYPE 2).
 - Painting: 70 Micron ZINCETHYL SILICATE UP TO 200C SA3 Surface Per Partion SA3.
 - A reduction scalar factor of 0.7 and 0.6 is considered in the calculation of seismic and wind loads respectively.

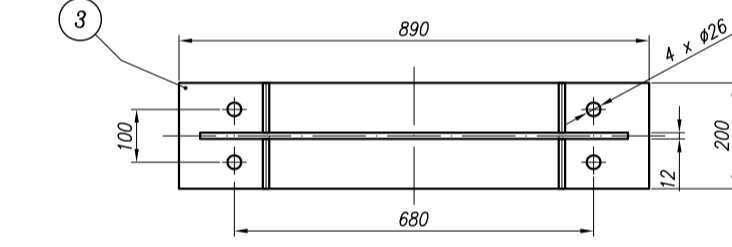
LOADING DATA AT BASE		
MOMENT (KILN)	39.2	3.45
SHEARING LOAD (KN)	46.6	4.1
	EARTHQUAKE	WIND

WEIGHTS		
OPERATING WEIGHT (kg)	4204	NET WEIGHT (kg)
FABRICATED WEIGHT (kg)	2504	EMPTY WEIGHT (kg)
	5734	

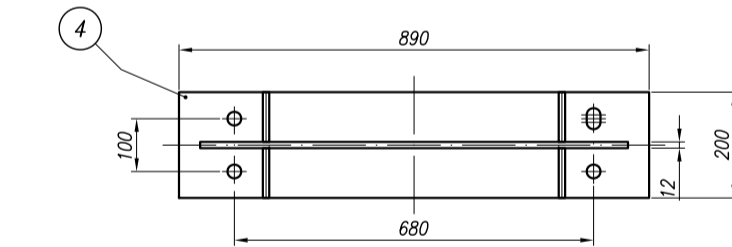
PARTS LIST					
NO.	PART NAME	MATERIAL	DIMENSION	QTY.	REMARK
1.1	Shell (Plate)	SA 516 Gr.70N	2000 x 2821 x 12	1	534 534 -
1.2	Shell (Plate)	SA 516 Gr.70N	1000 x 2821 x 12	1	266 266 -
1.3	Shell (Plate)	SA 516 Gr.70N	900 x 2821 x 12	1	239 239 -
2	Ellip. Head 2:1	SA 516 Gr.70N	1088 x 326 W.N.F. THK=12	2	126 252
3	Base Plate (Fixed Saddle)	SA 285 Gr. C	200 x 890 x 15	1	22 22
4	Base Plate (Sliding Saddle)	SA 285 Gr. C	200 x 890 x 15	1	22 22
5	Web Plate	SA 285 Gr. C	810 x 591 x 12	2	32 64
6	Rib Plate	SA 285 Gr. C	80 x 446 x 12	8	35 28
7	Wear Plate	SA 516 Gr.70N	200 x 125 x 12	2	21 42
8	Earth Lug	SA 240 Gr. 304	80 x 100 x 6	2	0.4 0.8
9.1	Lifting Lug (Plate)	SA 516 Gr.70	100 x 125 t=20	2	2 4
9.2	Lifting Lug Pad (Plate)	SA 516 Gr.70	100 x 150 t=12	2	1.4 2.8
10	Flange (A1, B)	SA 350 LF2	4" W.N. 300 R.F. SCH 80	2	31 62 ASME B.16.5
11	Pipe (A1)	SA 333 Gr.6	2" SCH. 160 L=158	1	48 418 ASME B.36.10M
12	Pad	SA 516 Gr.70N	Ø380 x Ø220 x 12	2	8 16
13	Pipe (B)	SA 333 Gr.6	8" SCH. 80 L=131	1	7 7 ASME B.36.10M
14	DELETED	-	-	-	-
15	DELETED	-	-	-	-
16	Flange (SV)	SA 350 LF2	4" W.N. 300 R.F. SCH.120	11.4	11.4 ASME B.16.5
17	Pipe (SV)	SA 333 Gr.6	4" SCH. 120 L=145	1	4 4 ASME B.36.10M
18	Pad	SA 516 Gr.70N	Ø250 x Ø124 x 12	1	2.6 2.6
19	Flange (A2)	SA 350 LF2	2" W.N. 300 R.F. SCH.160	4	4.1 4.1 ASME B.16.5
20	Pipe (A2)	SA 333 Gr.6	2" SCH. 160 L=158	1	2 2 ASME B.36.10M
21	Pad	SA 516 Gr.70N	Ø160 x Ø70 x 12	1	1 1
22	Flange (D, A3, L1, 2)	SA 350 LF2	2" W.N. 300 R.F. SCH.160	4	4.1 16.4 ASME B.16.5
23	Elbow (D, A3, L1, 2)	SA 234 WPB	2" SCH. 160 L.R. 90°	4	1.3 5.2 ASME B.16.5
24	Pipe (D, A3, L1, 2)	SA 333 Gr.6	2" SCH. 160 L=42	4	1 4 ASME B.36.10M
25	Pad (D, A3, L1, 2)	SA 516 Gr.70N	Ø160 x Ø70 x 12	4	1 4
26	Pipe (L1, 2)	SA 333 Gr.6	2" SCH. 160 L=54	2	1 3 ASME B.36.10M
27	Stiffener Plate	SA 516 Gr.70N	60 x 6 L=274	2	1 1
28	Manhole Flange (M1)	SA 350 LF2	20" W.N. 300 R.F. t=15	1	182 182 ASME B.16.5
29	Pipe (Plate)	SA 516 Gr.70N	168 x 154 x 15	1	30 30
30	Pad	SA 516 Gr.70N	Ø740 x Ø518 x 15	1	25 25
31	Blind Flange	SA 350 LF2	20" 300 R.F.	1	230 230 ASME B.16.5
32	Gasket	Spiral Wound	20" 300R t=4.5	1	- - NOTE (4)
33	Stud Bolt	SA 193 Gr. B7	1.14" UNC L=220	24	1.7 48
34	Hex. Nut	SA 194 Gr. 2H	1.14" UNC	48	0.35 17
35	Steeve Pipe	SA 106 Gr. B	2.1/2" SCH. 40 L=200	1	1.7 1.7 ASME B.36.10M
36	End Plate	SA 285 Gr. C	Ø62 x Ø13 x 6	1	0.1 0.1
37	Daunt Pipe	SA 36	2" SCH. 160 L=375	1	10.8 10.8 ASME B.36.10M
38	Rod (Rod Bar)	SA 108 Gr. B	2.1/2" SCH. 40 L=450	1	0.4 0.4 ASME B.36.10M
39	Eya Let (Rod Bar)	SA 36	Ø20 L=333	1	0.8 0.8
40	Eya Bolt (Rod Bar)	SA 36	Ø24 L=300	1	0.9 0.9 M24
41	Washer	SA 285 Gr. C	Ø44 x Ø25 x 4	1	0.03 0.03 DN 125
42	Hex. Nut	SA 194 Gr. 2H	M24	2	0.10 0.20 DN 934
43	Handle (Rod Bar)	SA 36	Ø20 L=375	2	0.8 1.6
44	Pipe (T)	SA 350 LF2	1 1/2" W.N. 300 R.F. SCH.160	1	3.2 3.2 ASME B.16.5
45	Flange (T)	SA 333 Gr.6	1 1/2" SCH. 160 L=135	1	1 1 ASME B.16.5
46	Flange (PT)	SA 350 LF2	1 1/2" W.N. 300 R.F. SCH.160	1	3.2 3.2 ASME B.16.5
47	Elbow (PT)	SA 234 WPB	1 1/2" SCH. XXS L=60	1	0.6 0.6 ASME B.16.5
48	Pipe (PT)	SA 333 Gr.6	1 1/2" SCH. XXS L=101	1	0.7 0.7 ASME B.36.10M



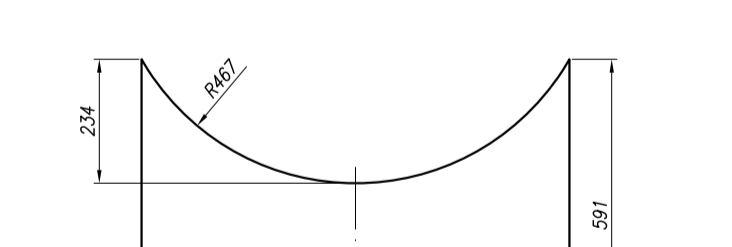
Support Saddle Detail (1:10)



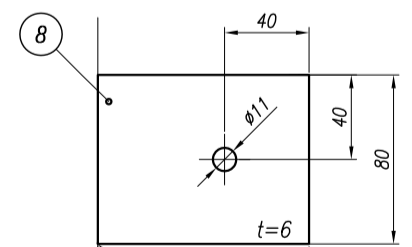
Fixed Saddle (1:10)



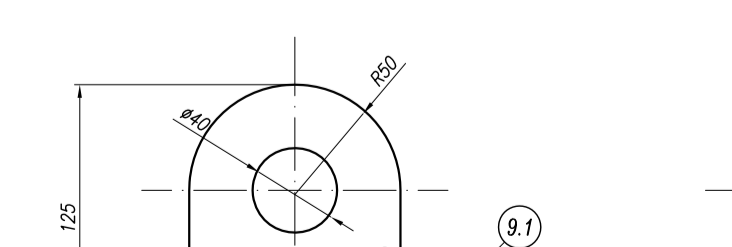
Sliding Saddle (1:10)



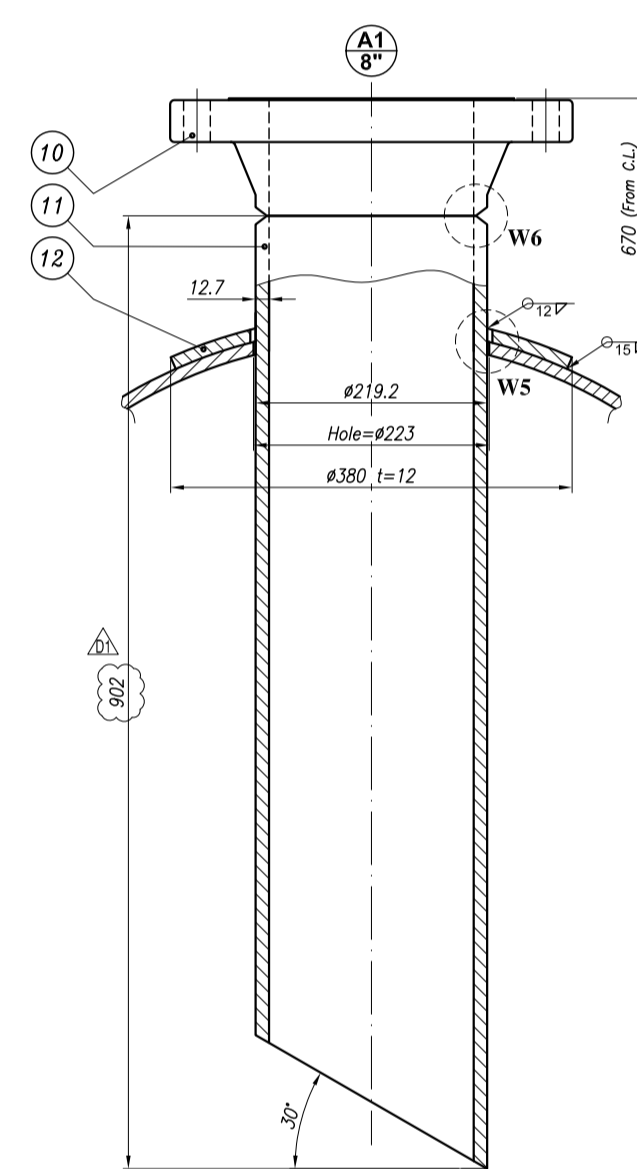
Web Plate Detail (1:10)



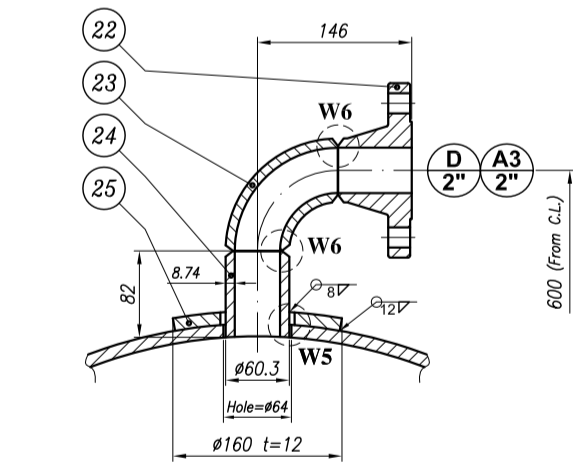
Earth Lug Detail (1:2.5)



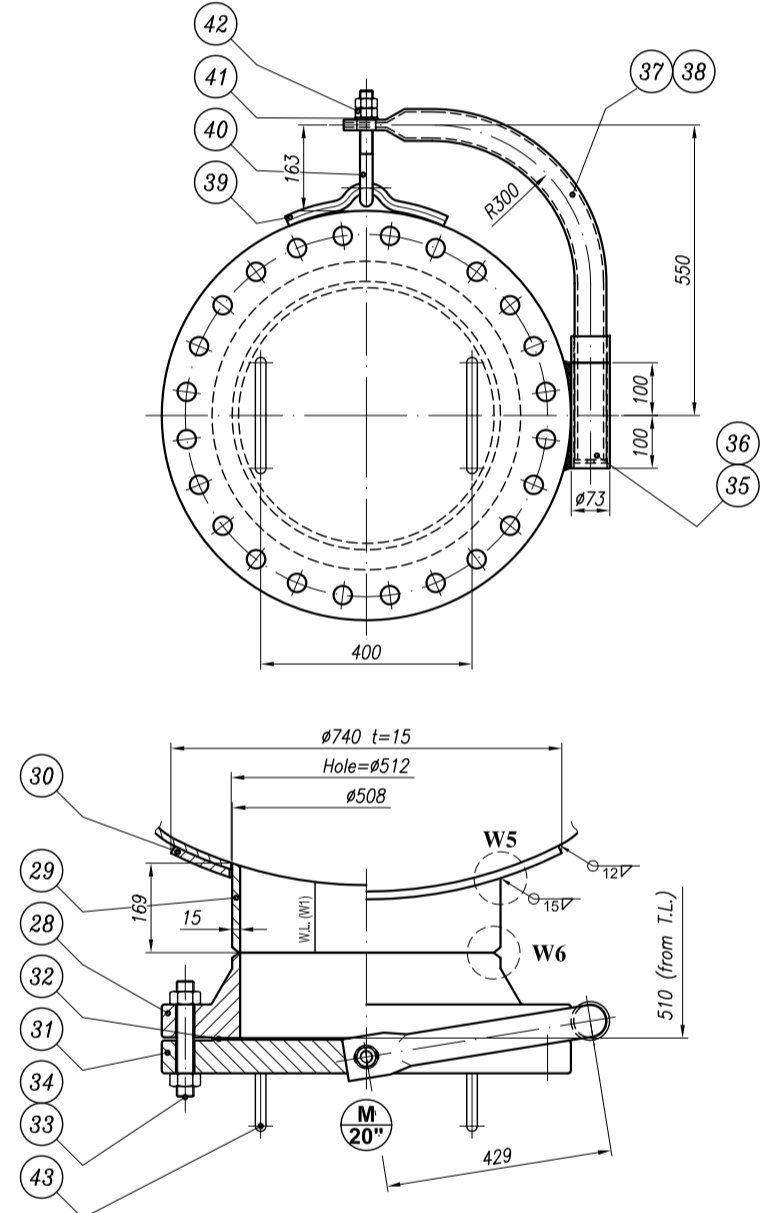
Lifting Lug Detail (1:2.5)



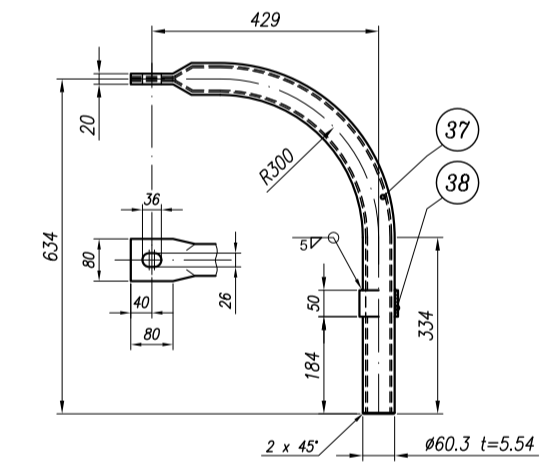
Nozzle Detail (1:5)



Manhole & Davit (1:10)



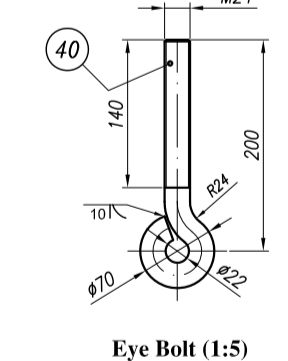
Sieve Pipe (1:5)



Davit Pipe (1:10)



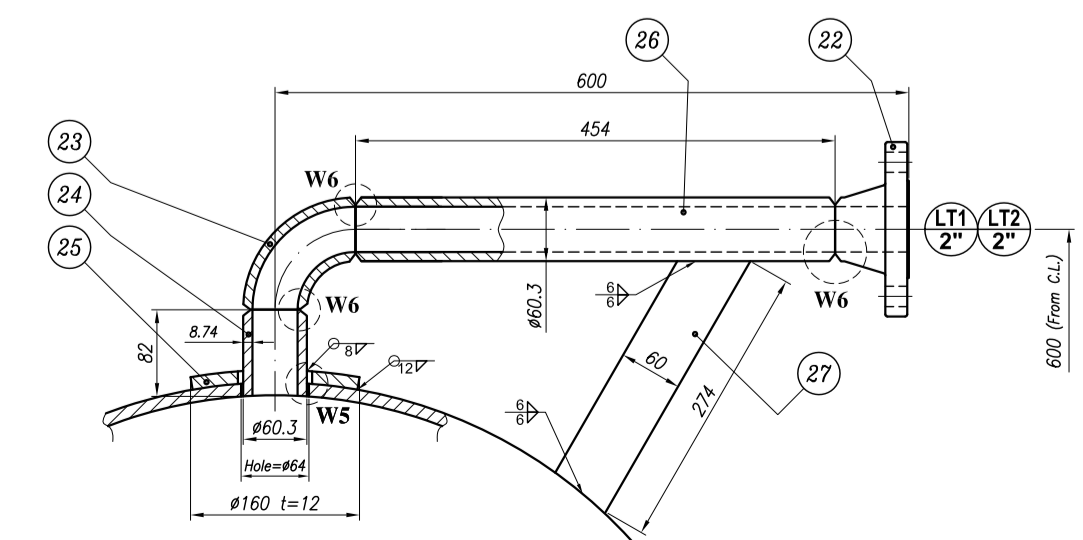
Eye Let (1:5)



Eye Bolt (1:5)



Handle (1:10)



Nozzle Detail (1:5)

WELDING DETAIL					
W1 - Shell to Shell	W2 - Shell to Head	W4 - Nozzle to Shell	W5 - Nozzle to Shell With Reinforcement Plate	W6 - Pipe to Flange & Pipe to Elbow	

CLIENT: MC CONTRACTOR: PERMAN GULF PIPING & FABRICATION PETROBRAS LTD. HARTGAN

PROJECT TITLE: DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE: LIQUID RECEIVER DRAWING (E-PK6101-2)

DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0021

SC. SIZE: A0

Rev.	Sheet	Rev.	Sheet
001	00	001	00

PURCHASER'S COMMENT/APPROVAL STATUS: PURCHASER: [Signature]

T1: Approved (Released for Manufacturing) T2: Approved With Minor Comments (Revision may Proceed) T3: Approved With Comments (Fabrication not Proceed)

REGISTRATION NO: DPIC9812-000-VD-1002-ME-001

ITEM NO. / TAG NO.: 4102

T4: Not Returned T5: Not Returned

Date: 03.03.2024 Signature: [Signature] VENDOR DOC. NO: DPIC9812-000-VD-1002-ME-000-000-01

REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
01	03-03-2024	ISSUE FOR APPROVAL	A. VOROBIEV	A. VOROBIEV	D. KASRAVAND
02	03-03-2024	ISSUE FOR APPROVAL	A. VOROBIEV	A. VOROBIEV	D. KASRAVAND

REV. DATE DESCRIPTION PREP'D CHK'D APP'D