



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)					Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
X	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:	07.03.2022	Signature:	A.AB			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	



**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**

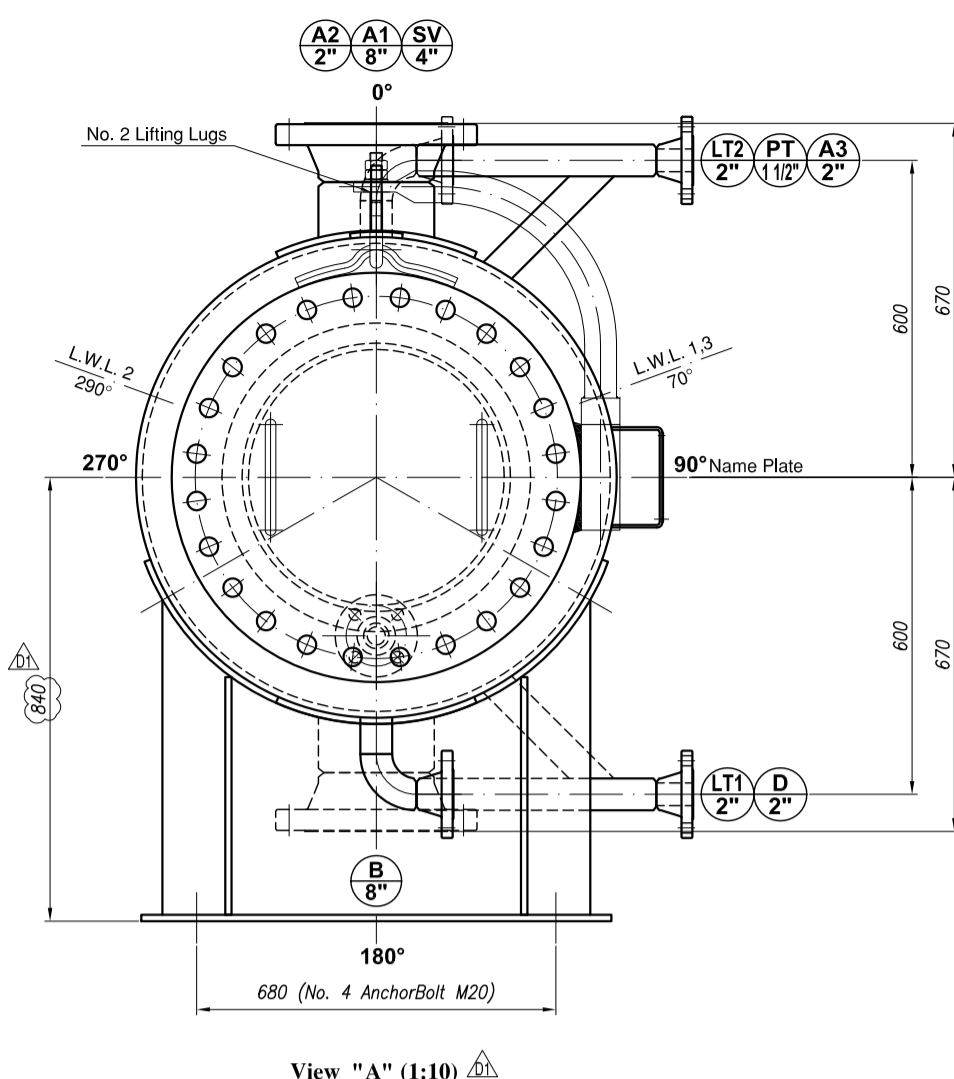
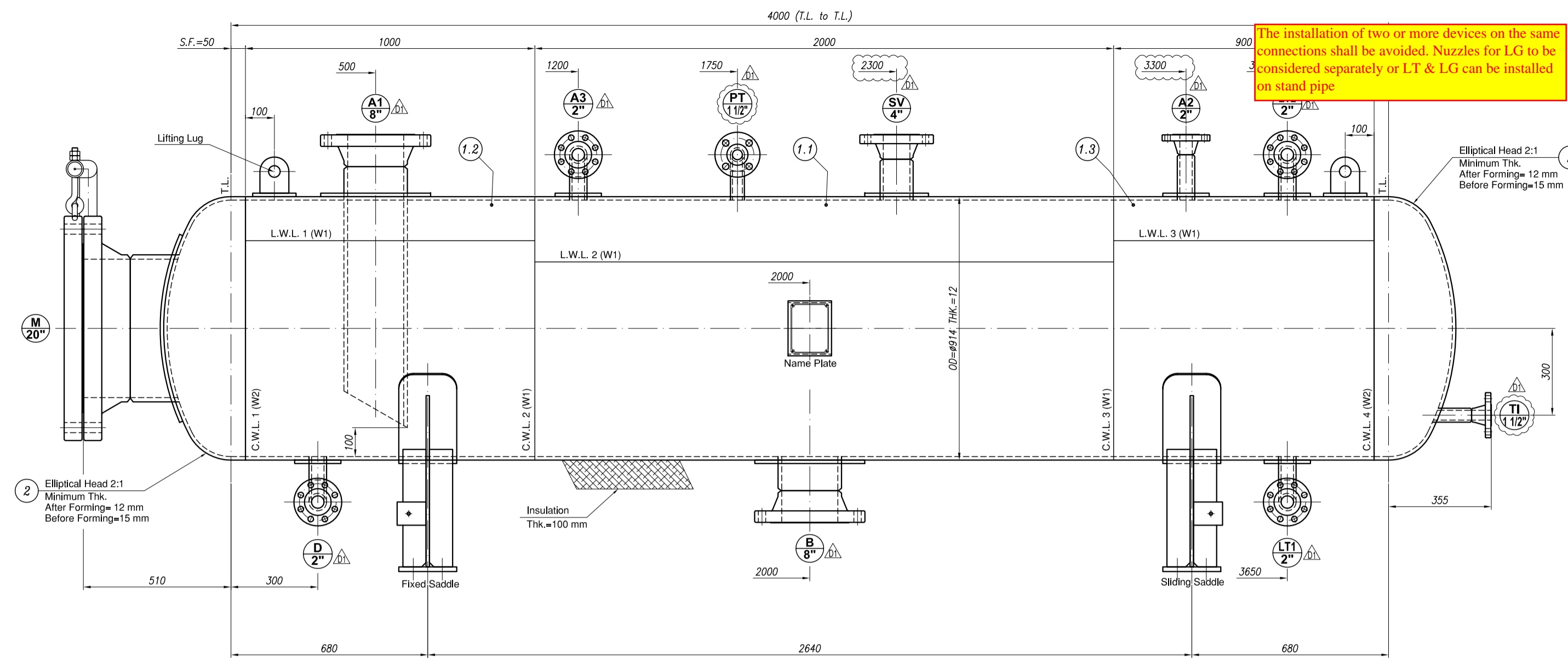
**Sheet 2 of 3**

**TABULATION OF REVISED PAGES**

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
1	x	x			
2	x	x			
3	x	x			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					

This document is the property of DPIC. Any unauthorized attempt to reproduce it, in any form, is strictly prohibited.



To be noted it will be finalized after PSV calculation.  
Seems to be opposite based on DWG and PID

NOZZLE DATA										
Mark No.	QTY	Size	SR. TYP.	THK.	FLANGE	SE	CL. FT/L	CD	DESCR.	PARIN (NOTE)
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	Spillout Inlet
A3	1	2"	SCH 160	300	W.N. R.F.		600	A180	12	Flange/Spillout
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	300	W.N. R.F.	510	A400	15	Manhole
L1	1	2"	SCH 160	300	W.N. R.F.		670	A180	12	Level Indicator
SV	1	2"	SCH 160	300	W.N. R.F.		670	A180	12	Level Indicator
PT	1	1/2"	SCH XXS	300	W.N. R.F.		670	A180	12	Pressure Indicator
T	1	1/2"	SCH XXS	300	W.N. R.F.		670	A180	12	Temperature Gauge

DESIGN DATA		
FLUID	PROPYLENE	FLUID DENSITY (kg/m <sup>3</sup> )
OPERATING PRESS. (BAR)	18.8	PRACK TEST
FL. OUT OPERATING TEMP. (°C)	50	POST WELD HEAT TREATMENT
DESIGN CODE (CLASS. TYP)	ASME SECTION VIII	DESIGN CODE
EXTERNAL DESIGN PRESS. (BAR)	23.7	WIND LOAD
DESIGN TEMPERATURE (°C)	135	ANTI-FRICKLE/HEAD SHELL NOZZLE
EXTERNAL DESIGN PRESS. (BAR)	1.013	EXTERNAL DESIGN PRESS. (BAR)
WORKING TEST PRESSURE (BAR)	30	WIND LOAD/TYPE EXPOSURE
MAX. W. P. (M.A.T.) (°C)	45	PAINTING
CORROSION ALLOWANCE (mm)	3	REWORKING TYPE (THK. ENH)
IMPACT TEST		REWORKING THICKNESS (mm)

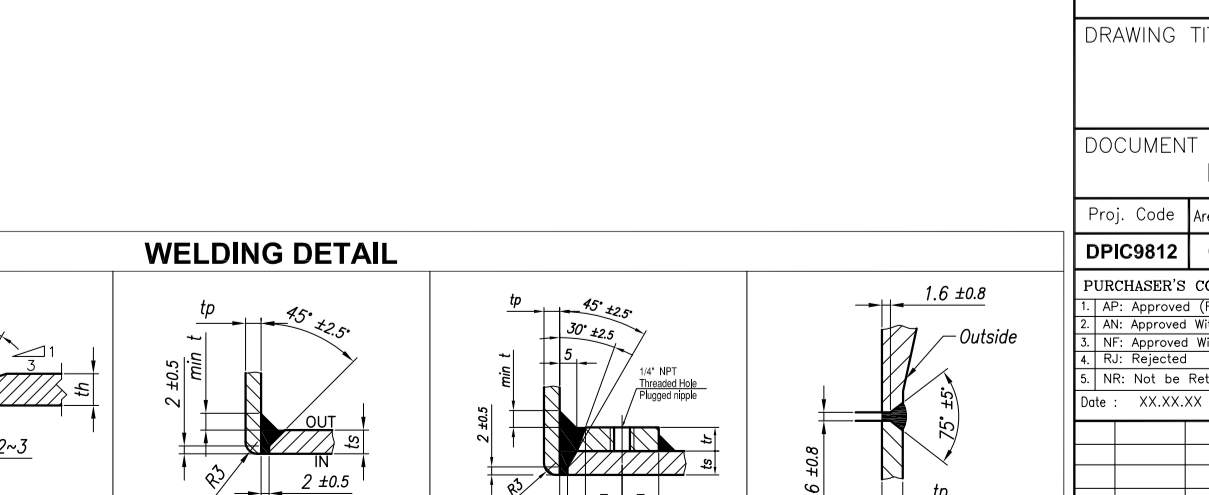
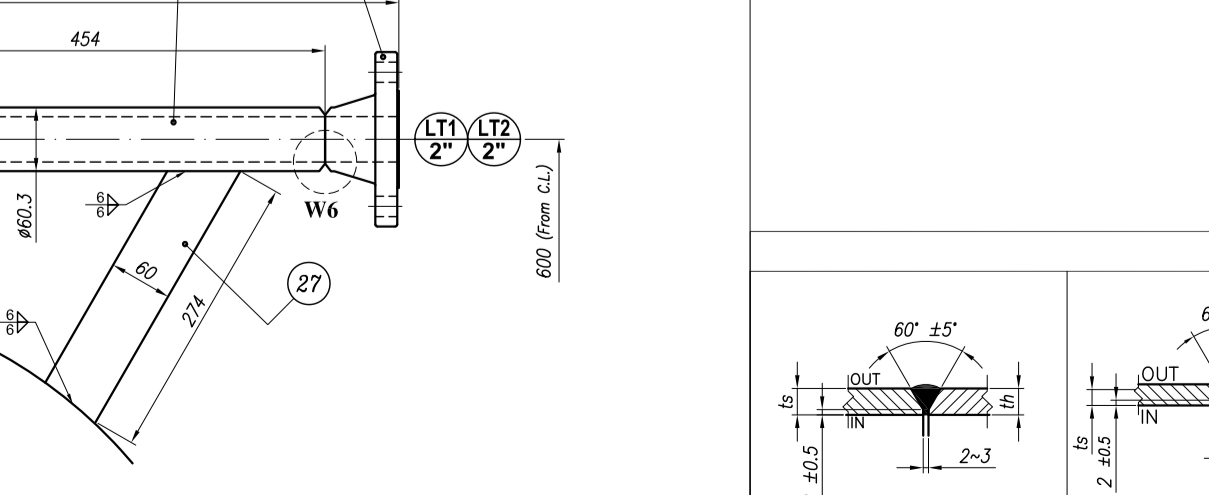
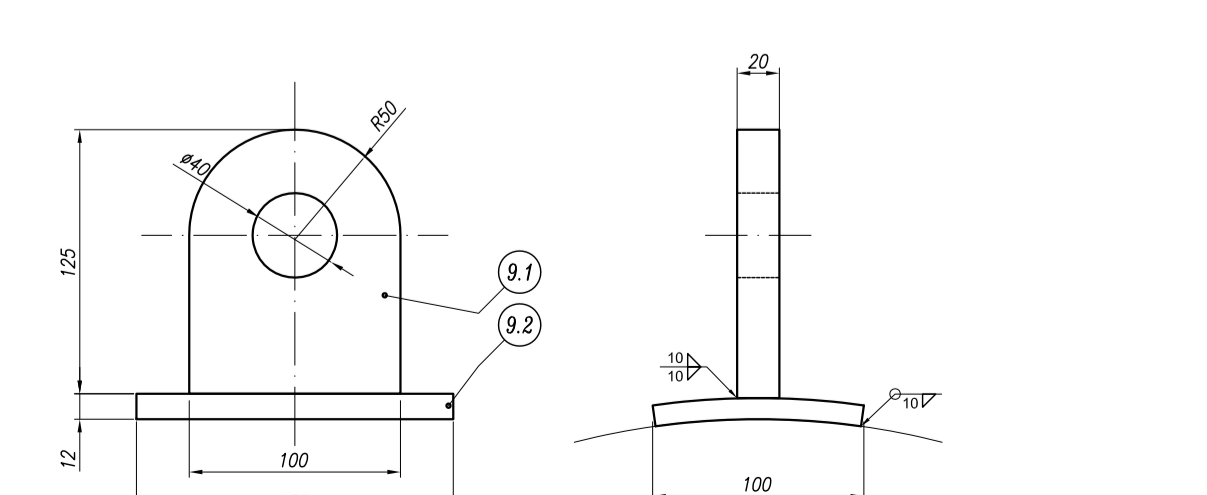
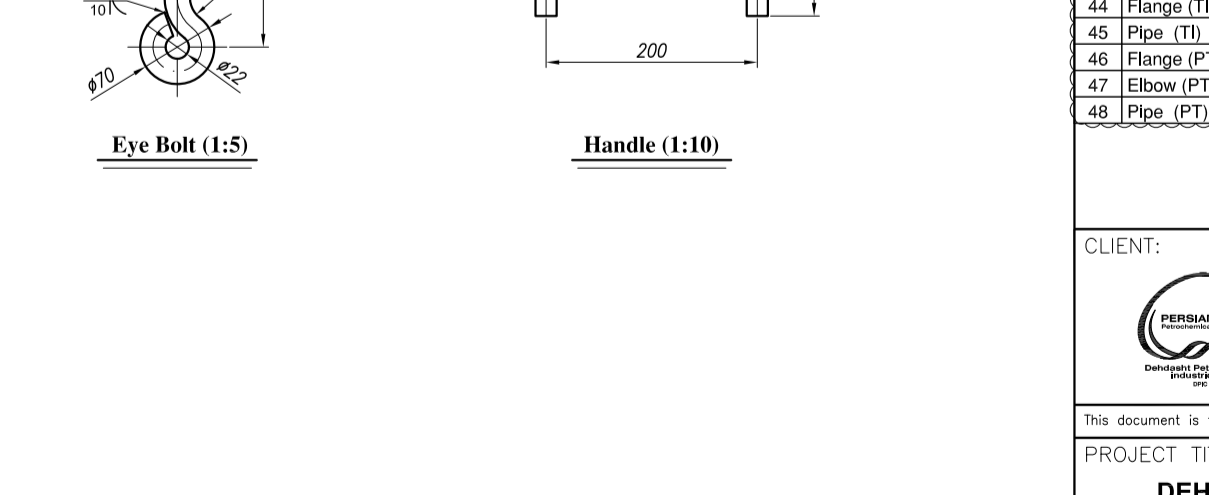
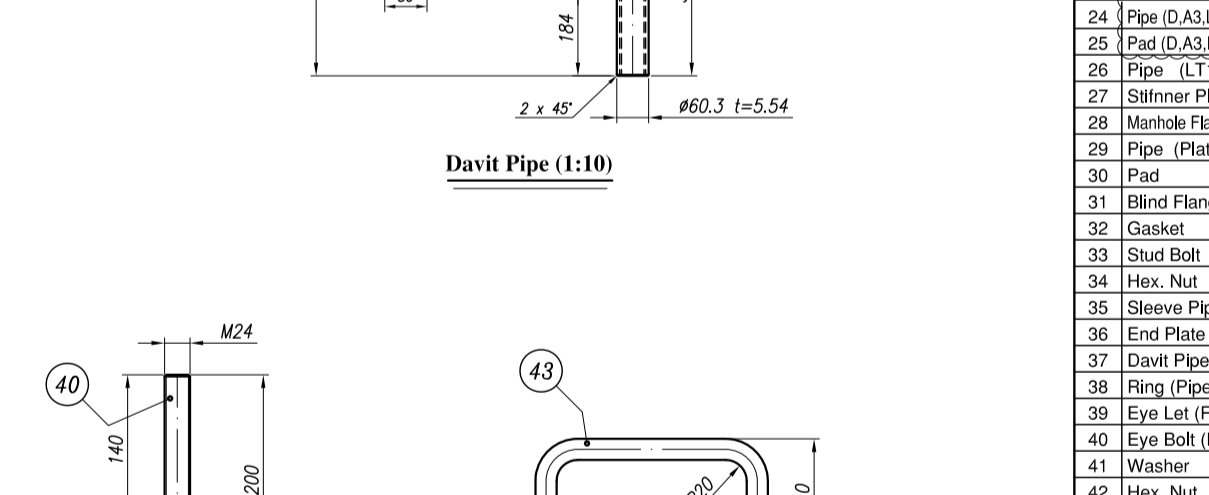
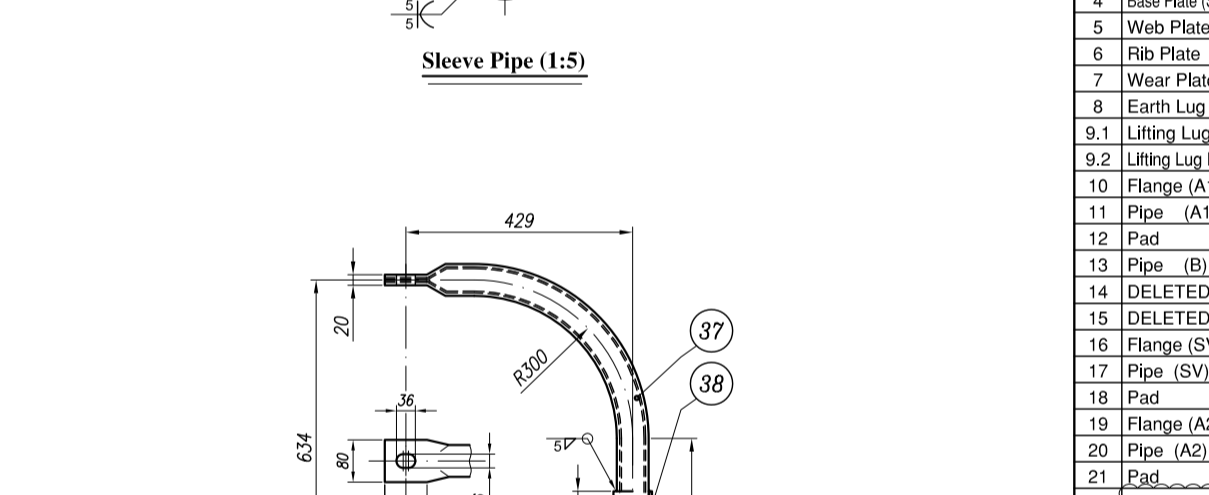
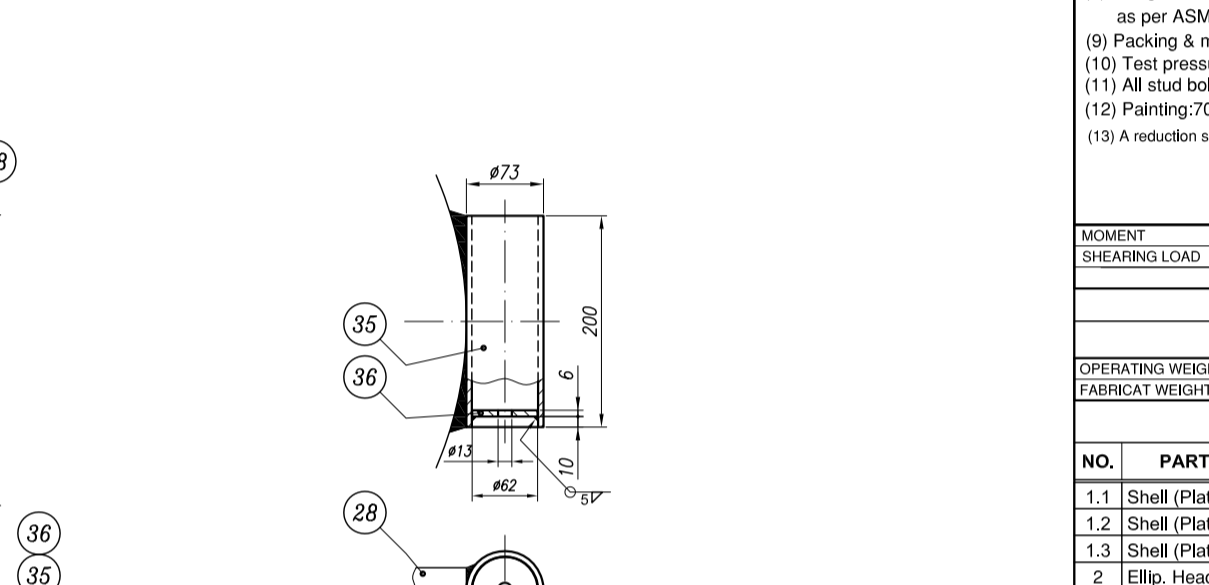
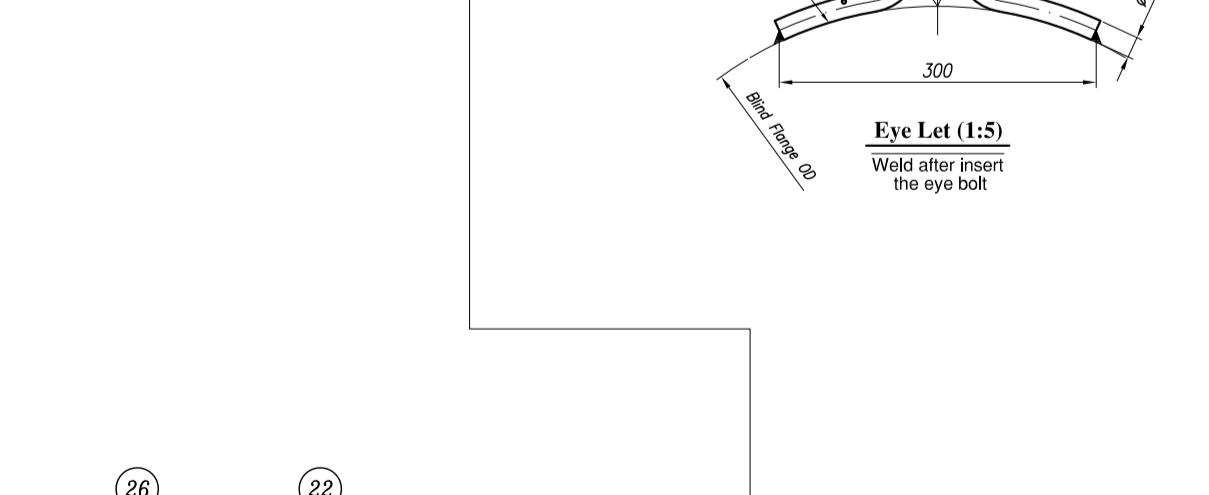
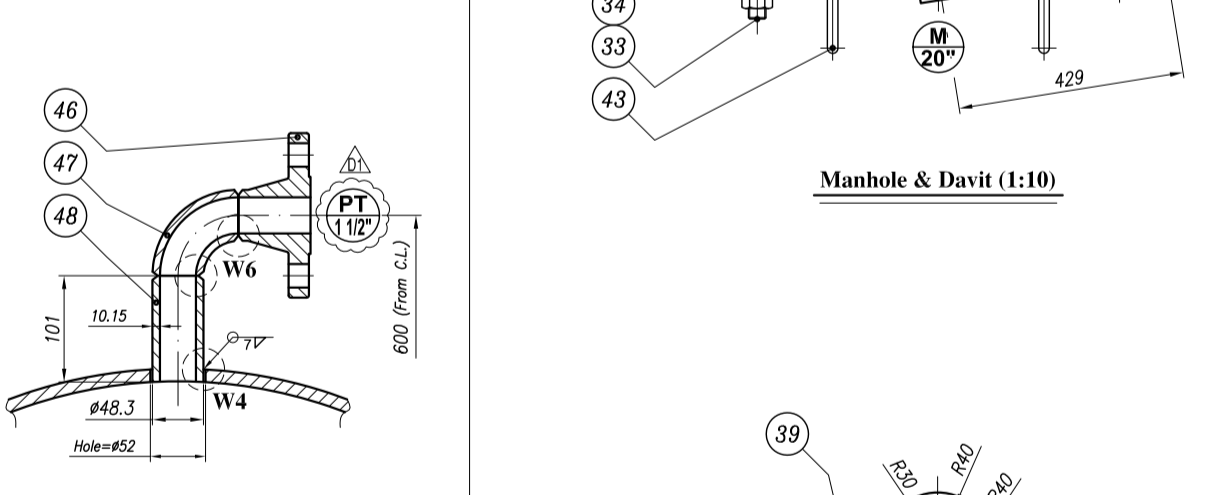
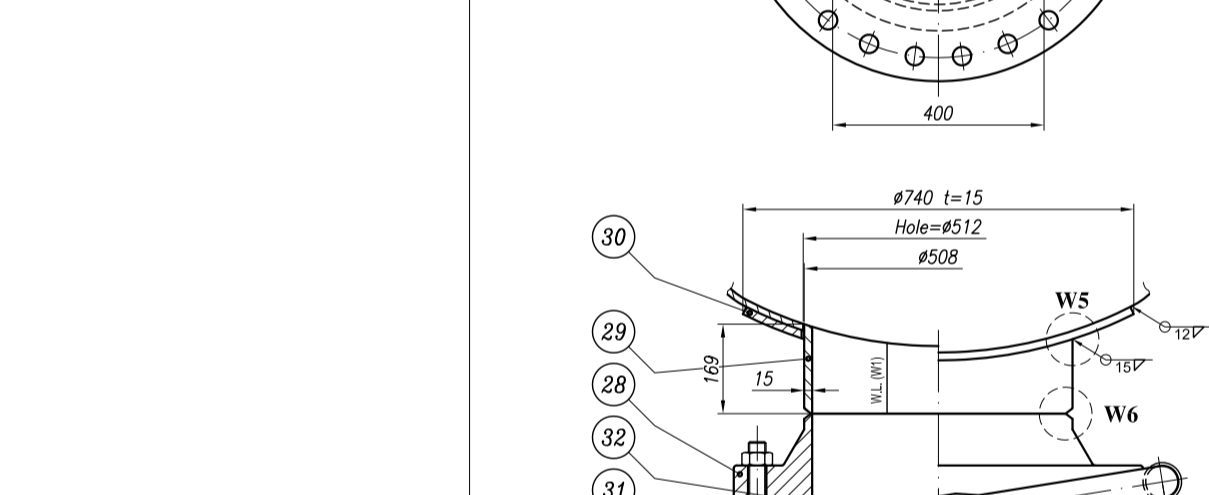
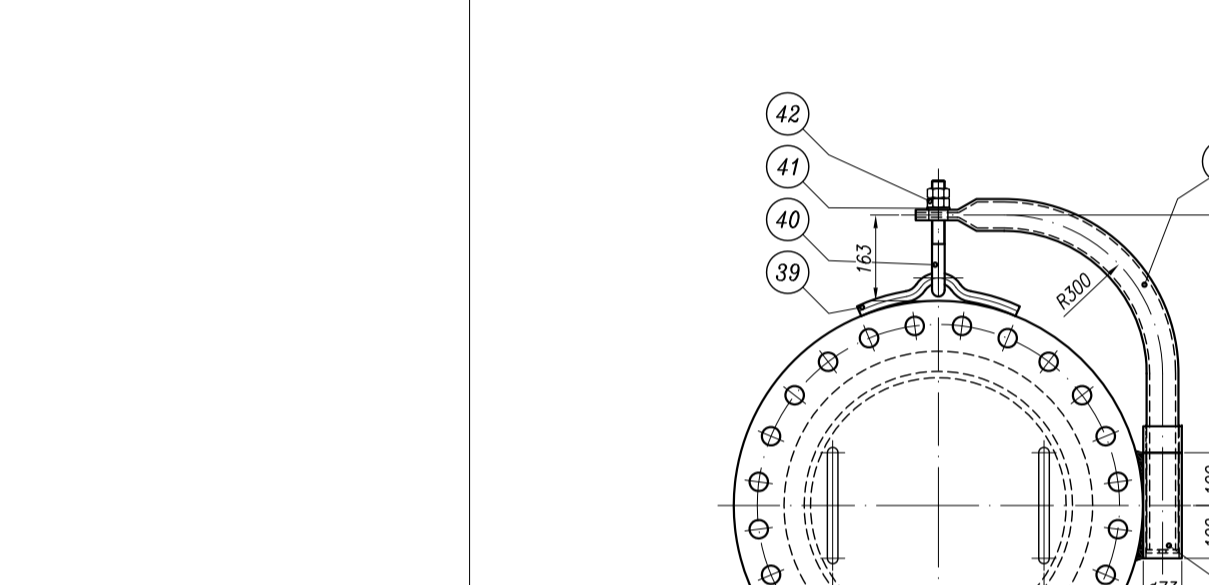
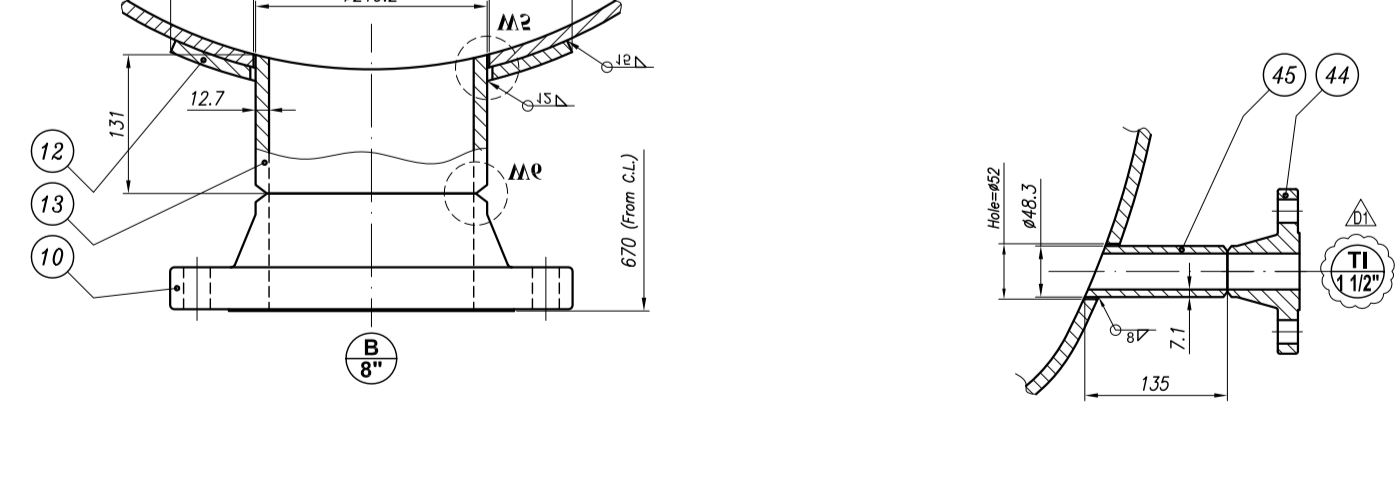
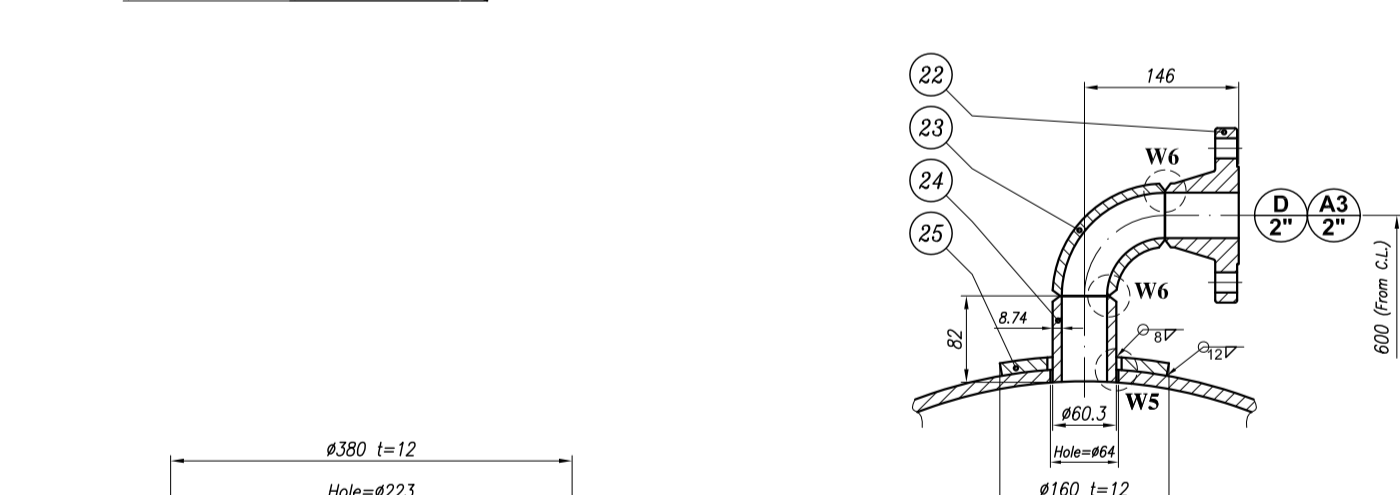
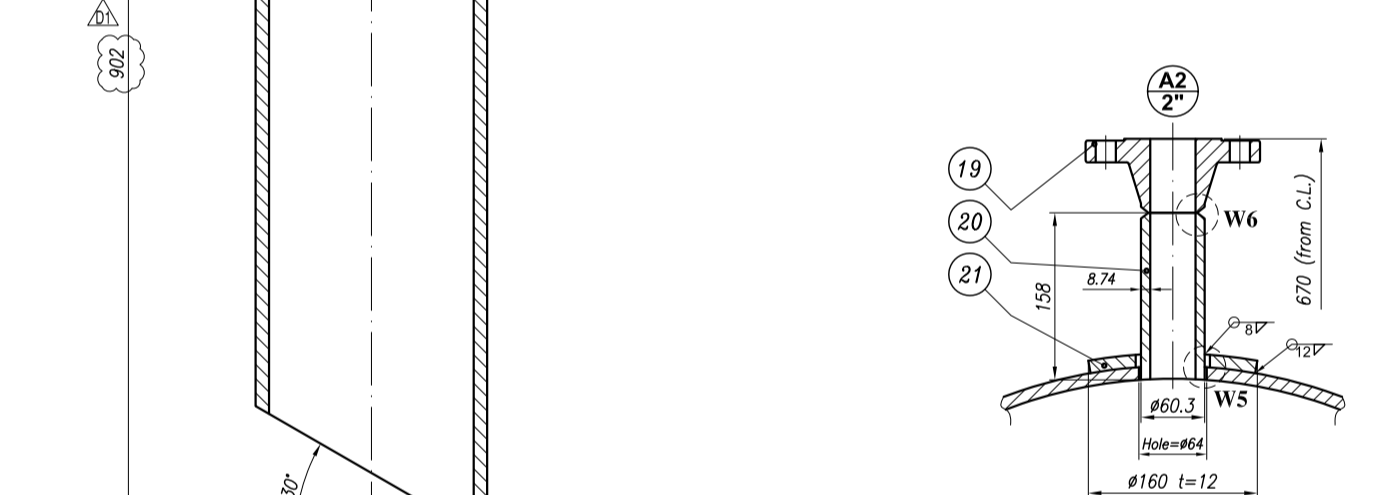
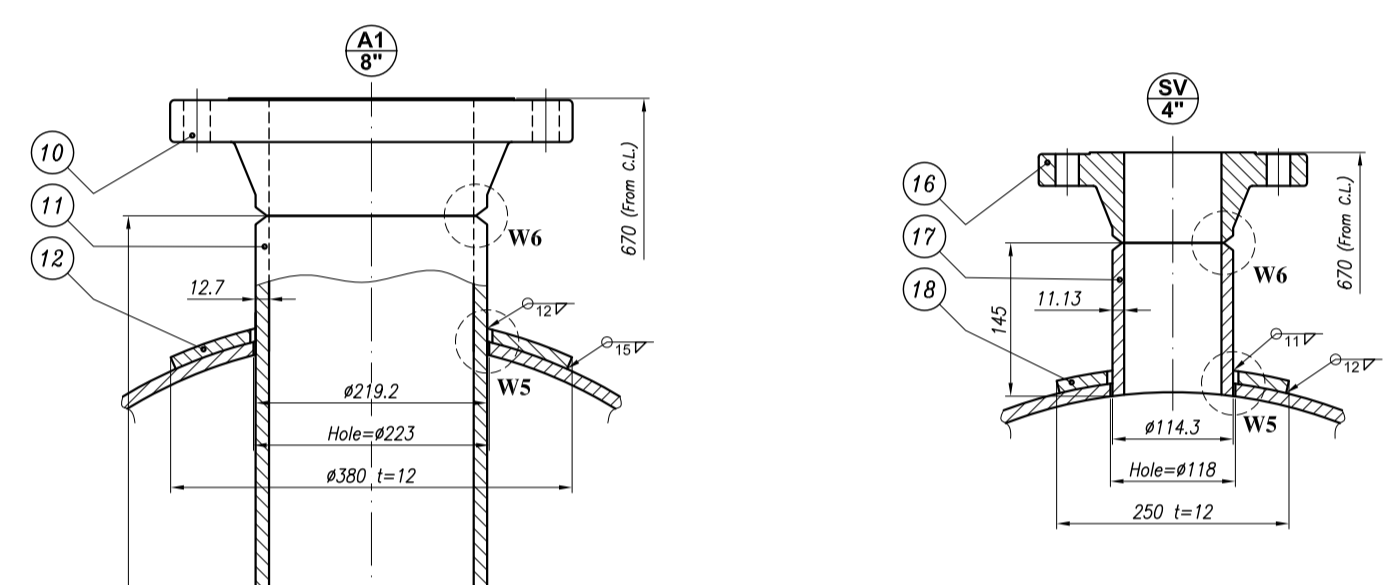
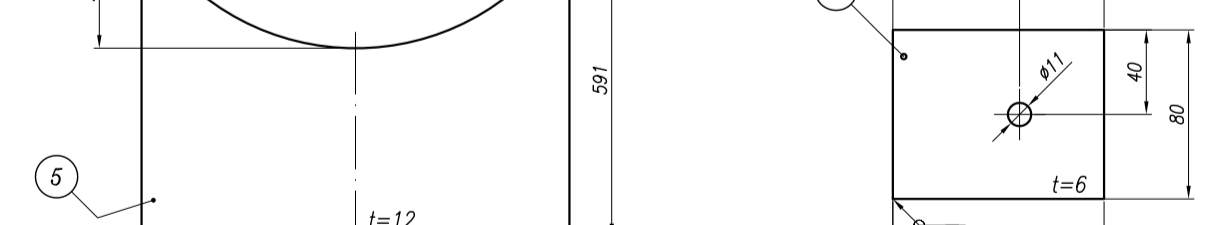
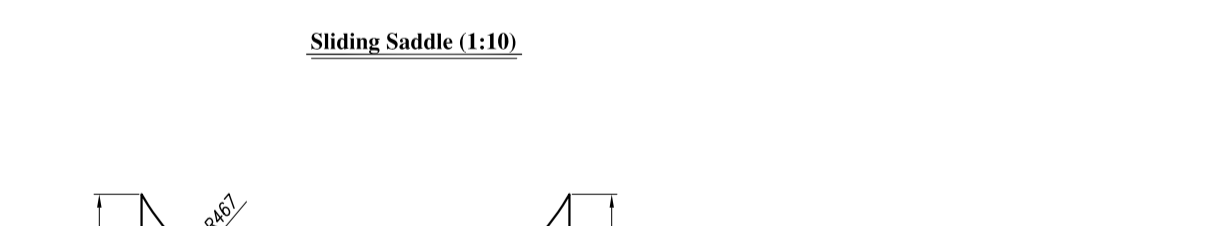
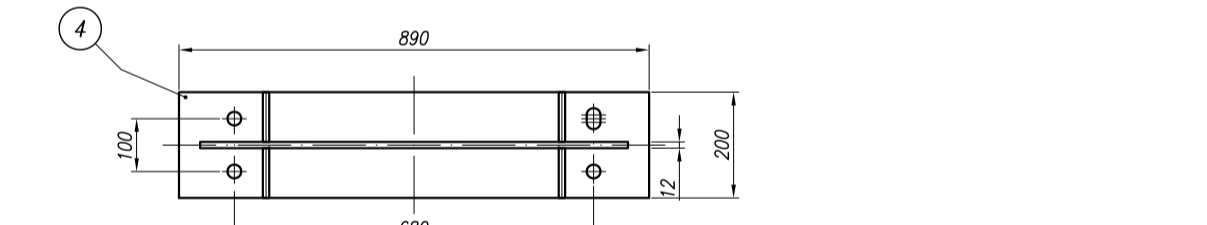
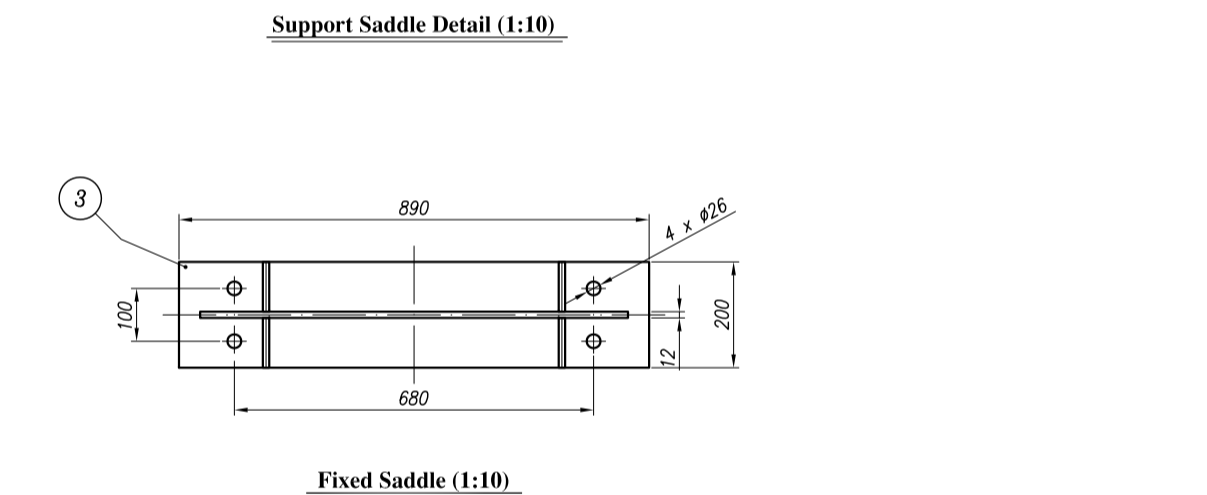
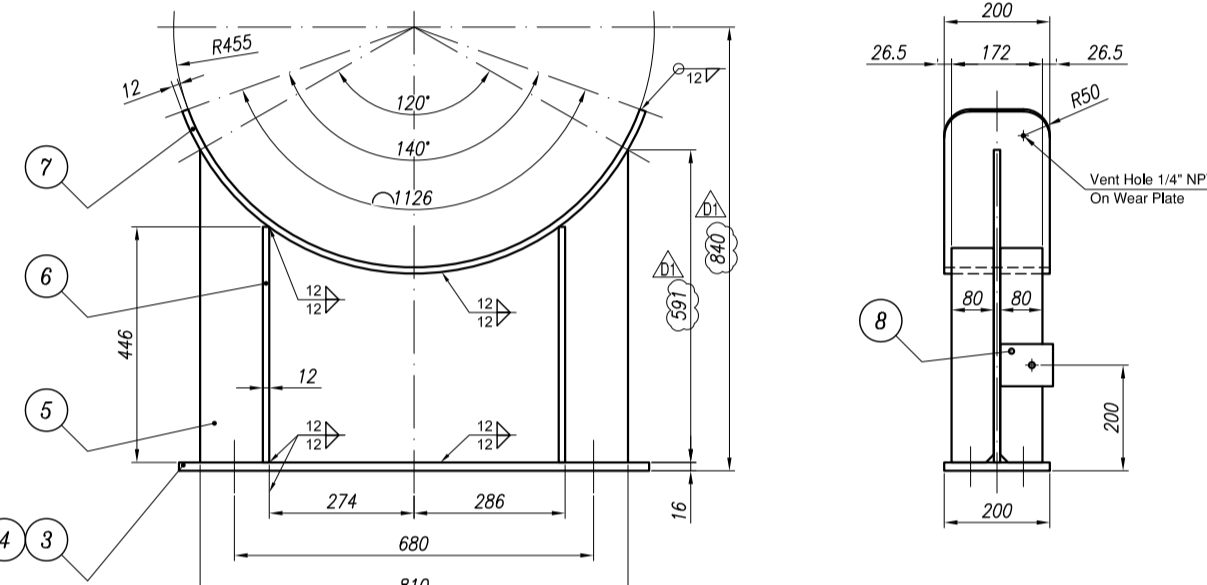
MAX. ALLOWABLE NOZZLE LOADS TABLE			
MARK NO.	SIZE	DIRECT LOADS (N)	MOMENT LOADS (N.M)
A1	8"	8000	8000
B	8"	8000	8000
SV	4"	4000	4000
A2	2"	2000	2000
A3	2"	2000	2000
D	2"	2000	2000
L1, L2	2"	2000	2000

- 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 (30).
  - 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 (KILLN)	39.2	SEISMIC
SHEARING LOAD (KN)	46.6	EARTHQUAKE
		WIND

WEIGHTS		
OPERATING WEIGHT (kg)	4204	NET TOTAL
FABRICATED WEIGHT (kg)	2504	EMPTY WEIGHT
		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	1000 x 2821 x 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 1126 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. SCH120	2	31 62 ASME B.16.5
11	Pipe (A1)	SA 333 Gr.6	2" SCH. 160 L=450	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. SCH120	11	41.4 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 2.8
19	Flange (A2)	SA 350 LF2	2" W.N. 300 R.F. SCH160	1	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. SCH160	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=454	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 1540 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 ASME B.18.5
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 0.26 DN 934
43	Handle (Rod Bar)	SA 36	Ø20 L=375	2	0.8 1.6
44	Flange (T)	SA 350 LF2	1 1/2" W.N. 300 R.F. SCH160	1	3.2 3.2 ASME B.16.5
45	Pipe (T)	SA 333 Gr.6	1 1/2" SCH. 160 L=135	1	1 1 ASME B.36.10M
46	Flange (PT)	SA 350 LF2	1 1/2" W.N. 300 R.F. SCH160	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



CLIENT: MC CONTRACTOR: PERBAN GROUP, HARTGAN

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

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

DOCUMENT No:	SC							
DPIC9812-000-VD-1002-ME-DWG-0021	SIZE: A0							
Proj. Code	Area No.	VD Material Code	PG No.	Disc. Code	Doc. Type	Serial No.	Rev.	Sheet No.
DPIC9812	000	VD	1002	4150	ME	DWG	0021	3 OF 3

PURCHASER'S COMMENT/APPROVAL STATUS: PURCHASER: T1: Approved (Released for Manufacturing) T2: Approved With Minor Comments (Revision not Proceed) T3: Approved With Comments (Revision not Proceed) T4: Not Returned T5: Not Returned

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

DATE: 03.03.2024

