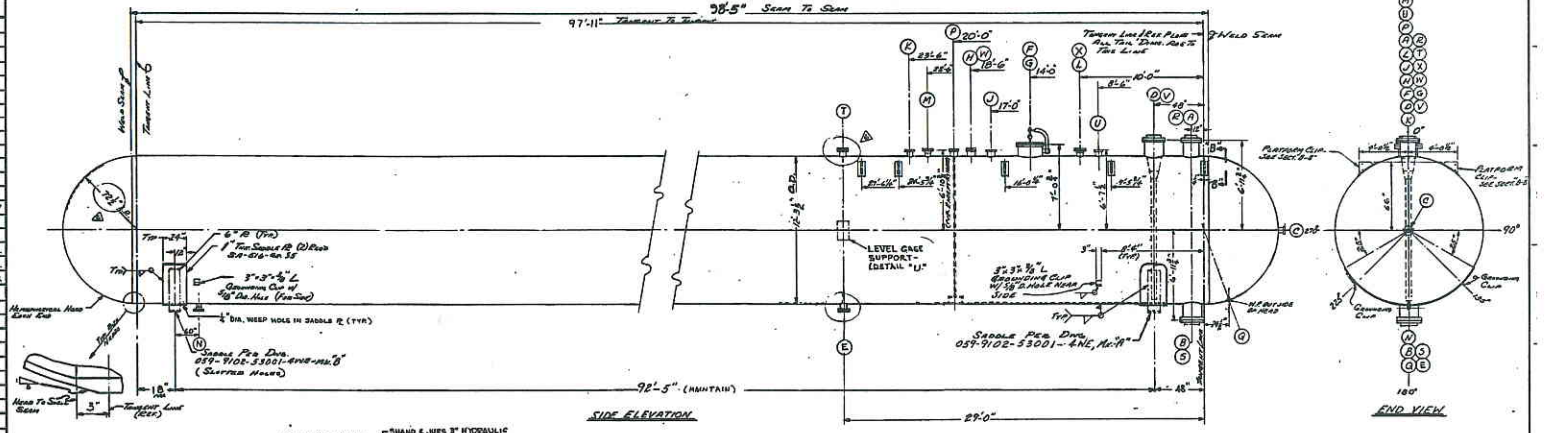
SPECIFICATIONS

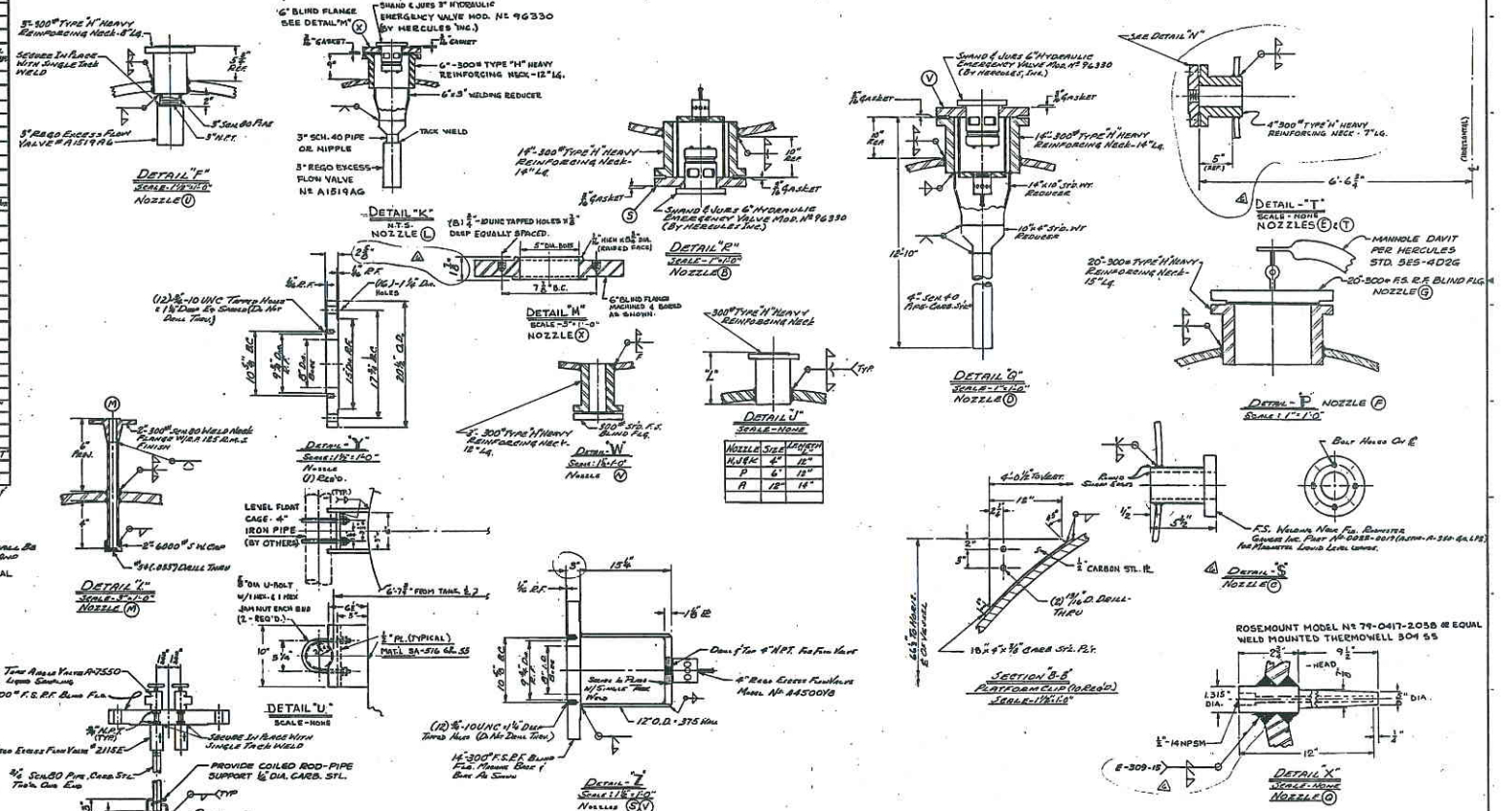
PROCESS AND GENERAL INFORMATION	MATERIAL IN VESSEL	Propylene — WT. 4.35 LB./GAL.
	CAPACITY OPERATING GALS. / DESIGN	90,000 GALS. / TOTAL 90,600 GALS.
	AGITATION	None
	USE	Propylene Storage — HORIZONTAL
	HEATED / COOLED / JACKET / COIL	No / No / No / No — OTHER None
	PRESSURE & TEMPERATURE: SHELL	DESIGN 350 PSIG AT 250/-50°F; OPERATING 250 PSIG AT 113/-50°F
	JACKET OR COIL	DESIGN ___ PSIG AT ___ °F; OPERATING ___ PSIG AT ___ °F
	TEST-HYDROSTATIC	525 PSIG HOLD 2 HOURS — PSIG HOLD 2 HOURS
	CORROSION ALLOWANCE	None
	CONSTRUCTION: CODE	ASME Section VIII Div. 1 — STAMPING Nat'l. Board
	INSPECTION: HERCULES / NATIONAL BOARD	YES / YES — OTHER Vendor
	X-RAY INSPECTION:	Full — FILM INSPECTION: HERCULES Yes — NATIONAL BOARD Yes
	THERMAL TREATMENT	Post Weld Stress Relieve Per ASME Code, Sect VIII Div. 1
	PASSIVATION: INSIDE	No — OUTSIDE No
	CLEANING	SCS-STL — PAINTING Exterior-(HDS-GG)-Sandblast Prime To Painting
	WEIGHTS: EMPTY	287,000 LBS. — FILLED WITH WATER 1,043,000 LBS.
	EXTERNAL LOADING	None LBS.
	FILLED WITH CONTENTS	681,000 LBS. — TOTAL MAXIMUM LOAD 1,043,000 LBS.
SHELL	MATERIAL	Carb. Stl. ASME SA-299 Normalized — THICKNESS 1 1/8"
	SEAMS: WELDED	SMAW — JOINT TYPE Double Butt — EFFICIENCY 100%
HEAD	LEFT END	RIGHT END
	MATERIAL	Carb. Stl. ASME-SA-299 Normalized / Carb. Stl. ASME-SA-299 Normalized
	TYPE	Hemispherical / Hemispherical
	WELDED	SMAW, SAW, GMAW / SMAW, SAW, GMAW
	THICKNESS	.682" Min. / .682" Min.
NOZZLES & PIPING	MATERIAL	Carb. Stl. ASME-SA-333 Gr. 6 — Mat'l. For -50°F — THICKNESS As Noted
	TYPE	Pipe (Seamless) — WITH 300 LB. W.N. FLG. STRENGTH EQUIVALENT PER ASME B16.5 — AMER. STD. FLGS.
	MANHOLE	Yes
	FLANGES	SA 350 Gr. LF2
GASKETS	FOR TEST	Sarlatallic Type JM 913-Stn. Stl. T-304-Chrysolite Asbestos-Or Equal
	FOR COMPLETED CONNS. SUPPLY NEW	Sarlatallic Type JM 913-Stn. Stl. T-304-Chrysolite Asbestos-Or Equal
JACKETS	MATERIAL	/ — THICKNESS /
	TYPE HEAD	/ — THICKNESS /
COILS	MATERIAL	/ — PIPE DIAMETER / — THICKNESS /
	TYPE	/ — LIN. FT. / — SQ. FT. SURFACE /
SUPPORTS	LUGS No	LEGS No — SKIRT No — SADDLES Yes — OTHER
BOLTING	INTERIOR	EXTERIOR
	BOLTS OR BOLT STUDS	/ — Bolts & Bolt Studs Not Hot Dip
	MATERIAL	/ — SA-193-B7
	NUTS: TYPE AND MATERIAL	/ — Carb. Stl. Hex Nut Per SA-194-2H
MISCEL.	INSULATION	None
	NO. UNITS REQ'D.	One (1) Mfr. D-250

NOZZLE DATA

NOZZLE	SIZE	USE	DWG. No.	NOZZLE	SIZE	USE	DWG. No.
A	12"	Vapor Outlet	Detail "U"	K	4"	Relief	Detail "J"
B	16"	Liquid Outlet	Detail "R"	L	6"	Liquid Return	Detail "R"
C	2½"	Manuetal	Detail "T"	M	20"	Riser	Detail "Y"
D	16"	Liquid Inlet	Detail "Q"	N	3"	Drain (W) 300# STD. Blind Flg.	Detail "W"
E	8"	Liquid Level Gage	Detail "N & T"	P	6"	Sampling	Detail "U" & "V"
F	20"	Manhole	Detail "P"	Q	½"	Thermowell	Detail "Z"
G	20"	Blind Flg.	Detail "P"	R	12"	Blind Flg.	Detail "Y"
H	4"	Spare	Detail "J"	S	16"	Blind Flg.	Detail "Y"
J	4"	Vent	Detail "J"	T	8"	Liquid Level Gage	Detail "N & T"
W	4"	Blind Flg.	300# S.O.	U	3"	Relief Return	Detail "F"
X	6"	Blind Flange	Detail "M"	V	14"	Blind Flg.	Detail "Z"

1. All Parts To Be "V" Single Be Fastened By Fabricator-After Testing, Valves & Pipe To Be Disassembled & Shipped Separately.
2. Flange Faces To Have A 125 RMS Lathe Finish.
3. Materials, Design And Fabrication Shall Be For Temperatures To Minus 50°F. Impact Resistance Guarantees Are Required For Plate, U.T. & C.(C.R.). Impact Tests For Materials And Procedures Shall Be Performed As Required By The Code For Low Temperature Service And Reported To The Owner.
4. Fabricator Shall Prepare Welding Specifications & Obtain Hercules Approval Prior To Starting Work.





MANHOLE DAVIT STANDARD			5E5-4D2G	
SADDLE DETAILS	059	9102	53001	4WE
TITLE	PLANT	ACCOUNT	CLASSIFICATION	FILE CODE

Materials, Welding Procedures, Heat Treatment Approved: R. D. Clark Date 2-6-78
Compliance Hydraulic Cable Cradle & Design Standard Approved: J. A. Nix Date 2-21-78

MICRO FILM NUMBER	JOB NUMBER
E-0481W	059017

Scale: ½"=1'-0" / Notes — Date
Drawn: R. Burkey — 6-7-78
Checked: W. A. Hagan — 7-19-78
Approved: R. O. Hagan — 7-17-78
Approved: V. A. Schell — 7-18-78
Approved: W. Wand — 7-18-78
Approved: L. L. Dimpfle — 8-7-78
Approved
Approved
Approved

THIS PRINT, AND THE INFORMATION AND KNOWHOW THEREON, IS PROPRIETARY TO HERCULES, AND MAY NOT BE USED OR REPRODUCED OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF THIS COMPANY. PERMITTED REPRODUCTIONS IN WHOLE OR IN PART, INCLUDING REPRODUCTS SHOP DRAWINGS, SHALL BEAR OR REFER TO THIS NOTICE. RETURN OF THIS PRINT MUST BE MADE TO HERCULES UPON REQUEST.

HERCULES INCORPORATED

PLANT: Varennes
BUILDING: Propylene Unloading

Propylene Unloading Facilities
Propylene Storage Tank
D-250
Assy & Details

DRAWING NUMBER				
059	9102	52001	5WE	6
PLANT	ACCOUNT	CLASSIFICATION	FILE CODE	REV.

REV. NO. 6

NO.	DATE	JOB NO.	DESCRIPTION	RVS'D.	CK'D.	APP'D.
1	8-3-78	059017	Chg'd. Det. "F" - 1-053146 (B)	BWE		
			Relocated Nozzles (D) & (E)			
2	8-21-78	059017	Chg. Size Location Gage Nozz. - 300 - 1-0867			
3	10-19-78	059017	Vessel was 13'-0" O.D.			
			1061-8" Thread To Thread - 1.5 Mm. Was 75.34" Or 1.914 Mm. Thread Depth - Increased 1.5 Mm. To 2.0 Mm. Was 1.9 Mm.			
			Nozz. Det. Located Horizontally			

NO.	DATE	JOB NO.	DESCRIPTION	RVS'D.	CK'D.	APP'D.
1	8-3-78	059017	Chg'd. Det. "F" - 1-053146 (B)	BWE		
			Relocated Nozzles (D) & (E)			
2	8-21-78	059017	Chg. Size Location Gage Nozz. - 300 - 1-0867			
3	10-19-78	059017	Vessel was 13'-0" O.D.			
			1061-8" Thread To Thread - 1.5 Mm. Was 75.34" Or 1.914 Mm. Thread Depth - Increased 1.5 Mm. To 2.0 Mm. Was 1.9 Mm.			
			Nozz. Det. Located Horizontally			

NO.	DATE	JOB NO.	DESCRIPTION	RVS'D.	CK'D.	APP'D.
1	8-3-78	059017	Chg'd. Det. "F" - 1-053146 (B)	BWE		
			Relocated Nozzles (D) & (E)			
2	8-21-78	059017	Chg. Size Location Gage Nozz. - 300 - 1-0867			
3	10-19-78	059017	Vessel was 13'-0" O.D.			
			1061-8" Thread To Thread - 1.5 Mm. Was 75.34" Or 1.914 Mm. Thread Depth - Increased 1.5 Mm. To 2.0 Mm. Was 1.9 Mm.			
			Nozz. Det. Located Horizontally			