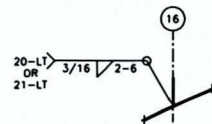
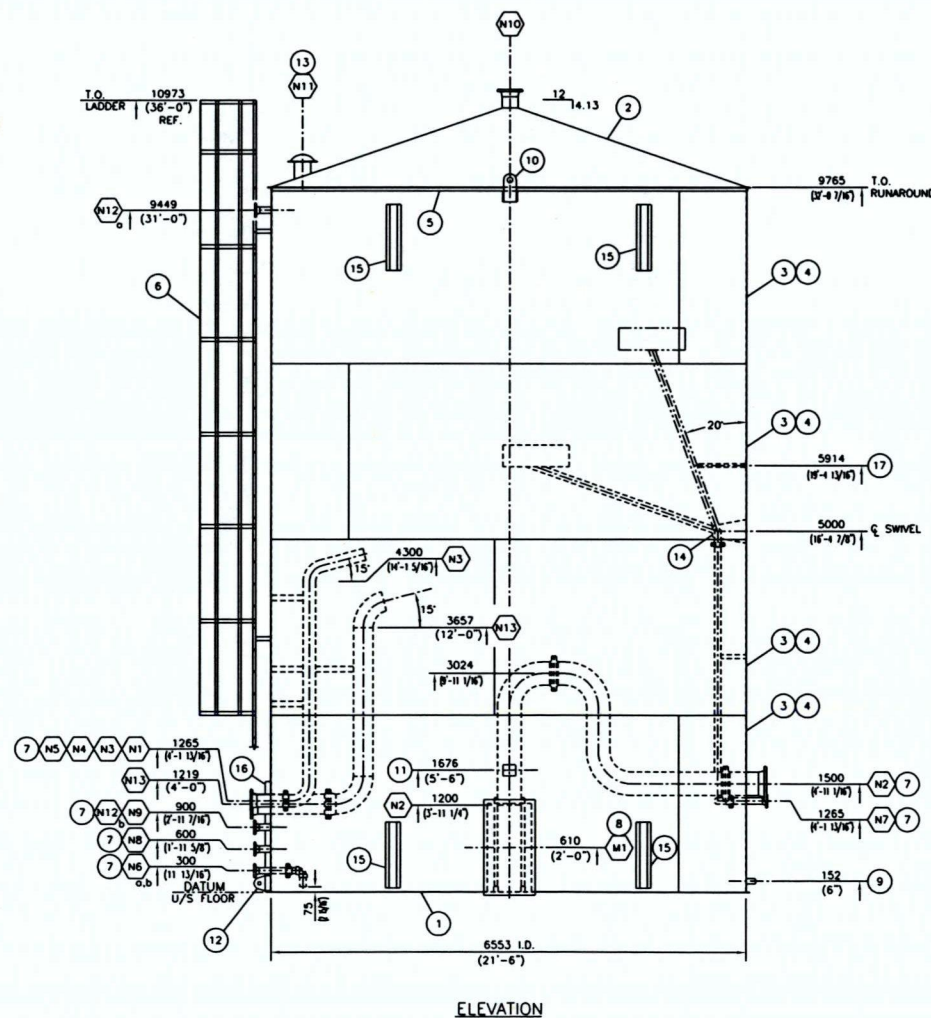


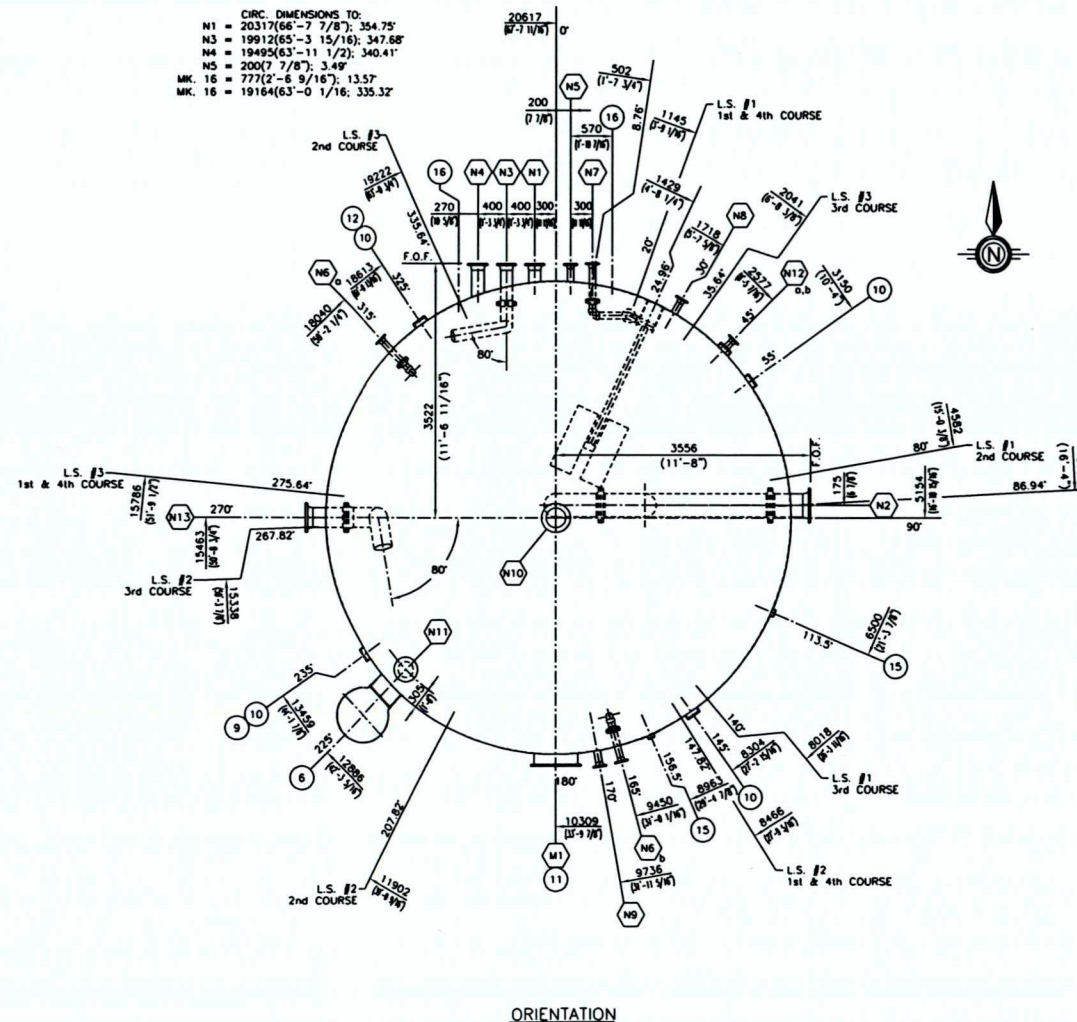
U.I.L. STANDARD WELD DETAILS (N.T.S.)



MK. 16 DETAIL
SCALE 1:10
(REQ'D 2 PLACES)

ELEVATION

NOZZLE SCHEDULE											MATERIAL LIST				
CUSTOMER SPECIFICATIONS	MK	NO	SIZE	SCH	RATE	TYPE	EXT. PROJ.	REPAD		DESCRIPTION	MK	QTY.	DESCRIPTION	MATERIAL	WT
								YES	NO						
DESIGN CODE: API-650	N1	1	168 8"	XS	ANSI 150	RFWN	254 10"	✓		SOURCE WATER INLET	1	1	FLOOR: PLATE 1/4" THK. x 21'-10 3/8" DIA.	G40.21-44W	3834
	N2	1	324 12"	XS	ANSI 150	RFWN	278 11"	✓		WATER OUTLET (BOOSTER PUMP SUCTION) C/W FRP INTERNAL PIPING	2	1	ROOF: PLATE 3/16" THK. x 22'-10 5/16" DIA.	G40.21-44W	3144
DESIGN PRESSURE: ATMOSPHERIC	N3	1	168 8"	XS	ANSI 150	RFWN	316 14 1/2"	✓		PRODUCED WATER INLET FROM T-106 C/W FRP INTERNAL RISER	3	8	SHELL: PLATE 3/16" THK. x 8'-0" x 24'-0" LG.	G40.21-44W	11762
OPERATING TEMPERATURE:	N4	1	168 8"	XS	ANSI 150	RFWN	430 14 1/2"	✓		OVERFLOW TO T-108	4	4	SHELL: PLATE 3/16" THK. x 8'-0" x 19'-7 1/8" LG.	G40.21-44W	4801
DESIGN TEMPERATURE:	N5	1	89 3"	XS	ANSI 150	RFWN	246 14 1/2"	✓		SAND FLUSH WATER OUTLET	5	1	RUNAROUND ANGLE 2" x 2" x 3/16" x 68"-2" LG.	G40.21-44W	166
SERVICE:	N6	0.9	89 3"	XS	ANSI 150	RFWN	228 9"	✓		DRAIN C/W CPVC DOWNCOMER	6	1	LADDER C/W CAGE (35'-0" OVERALL LENGTH)	REF. DWG. T-6587-8103	300
OPERATING LEVEL:	N7	1	89 3"	XS	ANSI 150	RFWN	288 14 1/2"	✓		SKIM OR OUTLET C/W CPVC RISER & S.S. SWIVEL/FLOAT	7	1	NOZZLE DETAILS	REF. DWG. T-6587-8102	1171
CORROSION ALLOWANCE:	N8	1	89 3"	XS	ANSI 150	RFWN	228 9"	✓		LT-108/LI-108	8	1	SHELL MANNWAY - 2' x 4' C/W 3/16" COVER PLATE	REF. DWG. EDS-2605	192
OTHER:	N9	1	89 3"	XS	ANSI 150	RFWN	228 9"	✓		TRUCK CONNECTION	9	1	GROUNDING LUG	REF. DWG. EDS-2409	2
	N10	1	219 8"	STD	ANSI 150	RFWN	254 10"	✓		VENT	10	4	LIFTING LUGS	REF. DWG. EDS-2401	63
EXTERNAL: SANDBLAST TO SSPC-SP7 AND APPLY 3 - 4 MILS DFT OF LOW TEMPERATURE PRIMER DEVCO 236 EPOXY.	N11	1	219 8"	-	-	ENHARD 330	203 8"	✓	✓	THEFT HATCH 4 oz PRES. & 0.4 oz VAC. C/W EXTENSION	11	1	NAMEPLATE	-	-
	N12	0	89 3"	XS	ANSI 150	RFWN	228 9"	✓		LSH-110	12	1	TAILING LUG C/W REPAD	REF. DWG. EDS-2405	20
INTERNAL: SANDBLAST TO SSPC-SP10 AND APPLY 12 TO 15 MILS DFT OF DEVCO 253.	N12	0	89 3"	XS	ANSI 150	RFWN	228 9"	✓		LSL-111	13	1	THEFT HATCH NOZZLE C/W ENHARD 330 SET @ 4oz PRES. & 0.4oz VAC.	REF. DWG. EDS-2101	20
	N13	1	273 10"	XS	ANSI 150	RFWN	278 11"	✓		NOZZLE C/W INTERNAL PIPING	14	1	FLOATING SUCTION ASS'Y 3"	REF. DWG. EDS-3502	79
											15	4	HAULING PADS	REF. DWG. EDS-1108	120
OTHER: U/S OF TANK SANDBLAST TO SSPC-SP7 AND APPLY 14 - 16 MILS DFT OF COAL TAR EPOXY.	M1	1	14 1/2" x 4"	-	-	FAB'D	102 4"	✓		SHELL MANNWAY	16	2	UTLIDOR CLIPS: FLATBAR 1/8" x 3" x 5'-0" LG.	A-36	13
TESTING: LIMITED TO AIR TESTING AS PER API-650.											17	1	FLOATING SUCTION HIGH POINT SUPPORT	-	-
											18				
INSULATION: 1 1/2" THK. URETHANE PANEL INSULATION C/W 0.022 CORRUGATED METAL CLADDING PREPAINTED HERON BLUE.											19				
											20				



ORIENTATION

NOTES:	SUB-TOTAL	25687
1. ALL DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY.	X 1.06	
2. ALL NOZZLE PROJECTIONS ARE GIVEN ALONG NOZZLE CENTERLINES.	TOTAL	27228 lbs
3. ALL NOZZLE FLANGE RATING TO BE ANSI B16.5-1988.		
4. DRILL AND TAP 1/4" DIA. TELLTALE HOLE IN REINFORCING PADS.		
5. NOZZLES WHICH ARE TRIMMED FLUSH INSIDE HAVE AN EXTRA 25(1") IN PIPE LENGTH FOR TRIMMING.		
6. INSIDE EDGES OF NOZZLE NECKS, INSPECTION OPENINGS AND MANWAYS SHALL BE ROUNDED TO A RADIUS OF 1/8" MIN. OR ONE HALF THE WALL THICKNESS IF THE PIPE WALL IS LESS THAN 1/4".		

	20/03/95	AS-BUILT	JAM	
	07/03/95	ADDED NOZZLE N13	JAM	
	08/02/95	MOVED N7 TO 500 OFF 0' & TO 1265 ELEVATION	JAM	
	01/02/95	ROTATED N7 90°	JAM	
	16/01/95	ISSUED FOR CONSTRUCTION	JAM	
	23/12/94	ISSUED FOR APPROVAL	JAM	
NO	DATE	REVISIONS	BY	APP

 **UNIVERSAL INDUSTRIES LTD.**
P.O. BOX 1590
LLOYDMINSTER, ALTA./SASK. S9V 1K5

CLIENT WASCANA ENERGY INC.
MARSDEN #1 WATERFLOOD
L.S.D. 1-30-44-26 W3M

INJECTION WATER TANK, T-107
GENERAL ARRANGEMENT

SIZE: 6553mm I.D. x 9765mm HIGH (21'-6" I.D. x 32'-0 7/16" HIGH)			VOLUME: 318 CU. METERS (2000 Bbl)	
SCALE: 1:50	DRG. BY: J. MARKUSSON		DRG. NO. T-6587-D101	REV. NO.  4
DATE: 19/12/94	CHK'D:	APP:		