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INSTRUMENT AND EQUIPMENT LIST		
ITEM	QTY	DESCRIPTION
ANODE	6	3"x24" ALUMINUM SACRIFICIAL ANODES C/W 4"-150# INSULATION FLANGE KITS (3) R6 TAILS (3) 4"-150# ANODE FLANGES (3) WOODEN ROLLER INSULATORS (3) PES ANODE SUPPORT BRACKET FOR WOODEN ROLLER (SHOP FABRICATE) (3)
LG-100 LG-110	2	TRANSPARENT LEVEL GAUGE, 12 5/8" VISIBLE c/w GAUGE COCKS.
LLSD-100	1	KIMRAY MODEL 2200-SLS M/O (CEC2), 2" NPT ELECTRIC LEVEL SWITCH, SPDT, -40 TO 350°F, 2000 PSI MAWP, c/w SS FLOAT & MECHANICAL OVERRIDE
PI-100	1	WESTERN OR EQUAL PRESSURE GAUGE, 4 1/2" DIAL, 0-100 Psig RANGE, DUAL SCALE, 1/2" NPT END CONNECTION, LIQUID FILLED.
PSV-100 SHIPPED LOOSE	1	MODEL 2J3JOS-E15J CROSBY JOS RELIEF VALVE, 2" 150# RF x 3" 150# RF, 'J' ORIFICE, JOS STANDARD TRIM 316SST, SET @ 75 PSIG. (PSV TO BE SHIPPED LOOSE AND INSTALLED BY OTHER IN THE FIELD)
PSH-100	1	CCS 6900GZE ELECTRIC HIGH PRESSURE SWITCH, 1/2" NPT PROCESS CONNECTION, SET POINT TBD
TI-100	1	TREND OR EQUAL TEMPERATURE INDICATOR, 0 TO 250°F, DUAL SCALE 4" DIAL X 9" STEM, 1/2" FNPT x 3/4" MNPT c/w 3/4" x 1/2" x 9" LONG 304SS THERMOWELL.

VALVE LIST		
BALL VALVE	2	1"-150# RF R.P "FLOATER" BALL VALVES
BALL VALVE	4	1" NPT R.P. BALL VALVES
BALL VALVE	4	3/4" NPT R.P. BALL VALVES, NAVCO OR EQUAL
BALL VALVE	5	1/2" NPT R.P. BALL VALVES, NAVCO OR EQUAL
NEEDLE VALVE	2	1/2" NPT NEEDLE VALVES
BLIND FLANGE	1	8" 150# BLIND FLG, RF, SA-105N, c/w GASKET, STUD/NUTS. (FOR N5)
BLIND FLANGE	10	3" 150# BLIND FLG, RF, SA-105N, c/w GASKET, STUD/NUTS. (FOR N2, N3, N4, N6A, N6B, N6C, N6D, N17, N18, N19)
BLIND FLANGE	2	2" 150# BLIND FLG, RF, SA-105N, c/w GASKET, STUD/NUTS. (FOR N10A, N10B)
BLIND FLANGE	2	1" 150# BLIND FLG, RF, SA-105N, c/w GASKET, STUD/NUTS. (FOR N8, N13)
THR'D FLANGE	6	1" 150# THREADED FLANGE, c/w 1" NPT D/T, c/w GASKET, STUD/NUTS. (FOR PI-100, N11C, N11D, N15A, N15C, N15D)
HUB FLANGE	1	1" 150# HUB FLANGE, c/w 1/2" NPT D/T, c/w GASKET, STUD/NUTS. (FOR PSH-100)
HUB FLANGE	3	1" 150# HUB FLANGE, c/w 3/4" NPT D/T, c/w GASKET, STUD/NUTS. (FOR N9, N15B, N15E)
GASKET	1	3" 150# RF GASKET 316SS, (FOR N16 PSV-100) c/w (4) 5/8"Ø X 4 3/4" LG STUD BOLTS W/ 2 NUTS, 193-B7/194-2H

NOTES:

1. TUBING FITTINGS: 304SS, PLATED, PARKER A-LOK
2. TUBING: 304 SST, WELDED, 3/8" TO BE 0.035" WALL, 1/2" TO BE 0.049" WALL
3. ALL THREADED FITTINGS: 3000#, SA-105N
4. THREADED PIPE AND NIPPLES ON PROCESS PIPING: 1/2" TO 4" SCH.80, SA-106-B
THREADED PIPE AND NIPPLES ON SWEET FUEL GAS & I/A PIPING: SCH.80, SA-106-B
5. WELDED PIPE ON PROCESS PIPING:
150#: 1" TO 2" SCH.80, 2 1/2" TO 10" SCH.40/STD., SA-106-B
6. BUTT WELDING FITTINGS: SCHEDULE SAME AS PIPE, SA-234-WPB/SA-105N
7. ALL GASKET FLEXICARB 316 SST, ALL BOLTING SA-193-B7, SA-194-2H
8. BUTT WELDING PIPING: 10% X-RAY, NONE-PWHT, 0.0625" C.A., SWEET SERVICE
9. PAINT SPEC: SURFACE PREP.: SSPC-SP#3 (MECHANICALLY CLEANED)
10. SKID AND PIPING PAINT:
- ONE COAT OF SHOP PRIMER
- ONE COAT OF FINISH DTM F34 WARM GRAY
11. BUILDING:
- 8'-6" WIDE X 14'-0" LONG X 9'-6" LOW EAVE, POLYURETHANE PANELS, SHED STYLE
- GALVALUME EXTERIOR
- GALVALUME INTERIOR
- (1) 3'-0" x 7'-0" SINGLE DOOR
- (1) "WHIRLYBIRD" ROOF VENT
- (1) SIDE MOUNT ENCLOSURE FOR FIRETUBE CONTROLS
12. ALL ELECTRICAL BY OTHERS
13. VESSEL INTERNALLY CLEANED TO SSPC-SP#5, AND COATED WITH DEVOE 253 12-15 mils DFT
14. VESSEL OUTSIDE BUILDING PORTION TO BE INSULATED WITH
1 1/2" MINERAL WOOL c/w ALUMINUM CLADDING.

NOTES:									ENGINEER'S STAMP	DRAWN BY		EB	18-03-14	CLIENT	STOCK				
										CHK'D BY		BX	18-03-14						
										APP'D BY		DG	18-03-14						
										CAD REF		30600-PID-02	SCALE			NTS			
										 PLATINUM ENERGY SERVICES ULC A Trinity Industries Canada Company CALGARY, ALBERTA						TITLE			
	-	-														8'-0"OD X 30'-0"S/S 75PSI MAWP FWKO PIPING & INSTRUMENTATION DIAGRAM - BOM			
	PID-01	PIPING & INSTRUMENTATION DIAGRAM	0	ISSUED FOR CONSTRUCTION	EB	18-03-14	BX	DG								JOB NO.		30600	DRAWING NO.
		REFERENCE DRAWINGS		REV	DESCRIPTION			BY		DATE	CHK'D	APP'D							