

BILL OF MATERIAL REQ'D DESCRIPTION MAT'L										
-	3	SHELL, 96" OD x 3/8" THK x 10'-0" LG	SA-516-70N							
-	1	F&D HEAD (RIGHT SIDE), 96" OD x 0.5" NOM(0.4375"MIN) 1.5" SF, HOT FORMED								
-	1	F&D HEAD (LEFT SIDE), 96" OD x 0.625" NOM(0.5"MIN) 1.5" SF, HOT FORMED	SA-516-70N							
-	2	WEAR PAD, 3/8" THK x 25" W x 111 5/16" LG ROLL TO 96" ID c/w WEEP HOLE	SA-516-70N							
-	2	SADDLE WEB PL. 1/2" THK x 83 13/16" W x 35 13/16" H, SEE DETAIL	SA-310-70N							
-	4	SADDLE WEB PL: 1/2 THK x 03 13/16 W x 33 13/16 H, SEE DEIAL SADDLE OUTSIDE STIFF, 1/2" THK x TOP WIDTH 24" (BOTTOM WIDTH 9") x 35 13/16" LG	SA-36 SA-36							
-	4	SADDLE OUTSIDE STIFF, 1/2 THK x TOP WIDTH 24" (BOTTOM WIDTH 9) x 33 13/16" LG SADDLE RIBS, 1/2" THK x TOP WIDTH 23" (BOTTOM WIDTH 8 1/2") x 16 5/16" LG	SA-36							
-	2	BASE PLATE, PL. 1" THK x 10" W x 87" LG	SA-36							
-	1	PESC NAME PLATE & BRACKET	SA-30 SA-516-70N/SS							
-	4	FLANGE, 4" 150# RFSO N1,N7A-C	SA-516-70N/33							
-	1	PIPE, 4" SCH XH x 6 15/16" LG N1	SA-105N							
+	6	FLANGE, 3" 150# RFSO N2,N3,N16,N17,N18,N19	SA-100-B SA-105N							
+	2	PIPE, 3" SCH XH x 6 9/16" LG N2,N3,N16,N17,N18,N19	SA-105N SA-106-B							
-	1	PIPE, 3" SCH XH x 5 15/16" LG N3	SA-106-B							
-	5	FLANGE, 3" 150# RFWN, SCH XH N4,N6A-D	SA-100-B SA-105N							
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+	5	PIPE, 3" SCH XH x 1 15/16" LG N4,N6A-D	SA-106-B							
4	5	WELD ELBOW, 3" SCH XH, 90' LR BW N4,N6A-D FLANGE, 8" 150# RFSO N5	SA-234-WPB SA-105N							
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_	1		SA-106-B							
_	3	PIPE, 4" SCH XH x 11" LG N7A-C	SA-106-B							
_	14	FLANGE, 1" 150# RFSO N8,N9,N11A-D,N12,N13,N14,N15A-E	SA-105N							
_	3	PIPE, 1" SCH 160 x 6 5/8" LG N8,N9,N13	SA-106-B							
_	2	FLANGE, 2" 150# RFSO N10A/B	SA-105N							
_	2	PIPE, 2" SCH 160 × 20 7/8" LG N10A/B	SA-106-B							
_	1	PIPE, 1" SCH 160 x 7 3/8" LG N11A	SA-106-B							
_	1	PIPE, 1" SCH 160 x 4 5/16" LG N11B	SA-106-B							
_	3	PIPE, 1" SCH 160 x 6 13/16" LG N11C,N15B/C	SA-106-B							
_	1	PIPE, 1" SCH 160 x 14 1/16" LG N11D	SA-106-B							
_	1	PIPE, 1" SCH 160 x 7 11/16" LG N12	SA-106-B							
	1	PIPE, 1" SCH 160 × 6 9/16" LG N14	SA-106-B							
_	1	PIPE, 1" SCH 160 × 6" LG N15A	SA-106-B							
_	1	PIPE, 1" SCH 160 × 7" LG N15D	SA-106-B							
	1	PIPE, 1" SCH 160 x 12 5/16" LG N15E	SA-106-B							
	3	PIPE, 3" SCH XH × 6 7/16" LG N16,N17,N18	SA-106-B							
	1	COUPLING, 2" 6000# NPT X 6" LG C1	SA-105N							
	2	FLANGE, 18" 150# RFSO M1,M2	SA-105N							
	2	BLIND FLANGE, 18" 150# RF M1,M2	SA-105N							
ļ	32	STUDS, 1 1/8"ø x 6"LG c/w 2 NUTS EA M1,M2	SA-193-87-SA-194-2H							
	2	GASKET, 18" 150# FLEXICARB FLEXITALLIC M1,M2	316 SS							
_	1	PIPE, 18" SCH 40 (0.562 WALL) × 13 1/8" LG M1	SA-106-B							
	1	PIPE, 18" SCH 40 (0.562 WALL) × 8 3/8" LG M2	SA-106-B							
	1	FIRETUBE DETAIL SEE VES-03	-							
_	1	FIRETUBE NECK & INTERNAL DETAILS SEE VES-04	-							
	1	PREHEAT PIPING AND SUPPORTS DETAIL SEE VES-05	-							
	3	ANODE SUPPORT ASSY. DETAIL SEE VES-05	-							
ļ	1	OIL BOX DETAIL SEE VES-06	-							
	6	ENCLOUSE CLIP, FLAT BAR, 1/4" THK X 2" X 5" LG	SA-36							
	1	INLET DEFLECTOR DETAIL SEE VES-04	-							
ļ	1	DAVIT ARM, DETAIL SEE DWG 18-150-90 DEGREE	-							
ļ	1	DAVIT ARM, DETAIL SEE DWG 18-150-30 DEGREE	-							
1	1	STACK, DETAIL SEE DWG VES-05								
	<u>4</u>	INTERNAL SUPPORT, DETAIL SEE VES-07	ĿĿĿĿ							

ADDED INTERNAL SUPPORT		LL	17-08-23	BX	DG	2				
REMOVED "HOLD" STATUS & REVISED	AS NOTED	LL	17-08-15	BX	DG	1				
ISSUED FOR CONSTRUCTION		LL	16-02-24	BX	DG	0				
ISSUED FOR APPROVAL		LL	16-01-25	BX	BD	A				
DESCRIPTION		DRAWN	DATE	CHK'D	APP'D	CALC REV				
DESIGN DATA										
gn Press. 75 Psig (517 kPag)	ess. 75 Psig (517 kPag) Serial No. 30138									
gn Temp. 350°F (177°C)	C.R.N. Y	927.21	3							
osion All. 0.0625" (1.6 mm) & NOTE #22	Impact Testing Exem	mption per: UG-20(f)(1-5)								
ress. 98 Psig (676 kPag) Construction Code: ASME SECTION VIII, DIV.1 2015 ED.						ED.				
y RT - 2 UW-11(a)5(b)	Dry Weight 31,380 LBS (14,234 KG)									
ss Relief N/R			U.FT (45.8		4)(288.2	25 88L)				
IT -20° F © 75 Psig -29° C © 517 KPag	MAWP 7	5 Psig	O9 350°F ⊒ O9 177°C	MAE	WP:-					
WN BY LL 16-01-25 .E AS SHOWN		54		A7	A Trinity Industr	ES ULC tes Canada Company RY, ALBERTA				
NT STOCK										
96" OD X 30'-0" S/S Z5PSL MAWP SWEET SERVICE FWKO										
NUMBER 30138	NG NUMBER	138-	VES-0	1		^{rev} 2				
S-\ TRANSFERS\ UNIT_NUMBER'S\.30000\.30138\.30138-VES-01.0WG										

S:\TRANSFERS\UNIT NUMBER'S\30000\30138\30138-VES-01.DWG