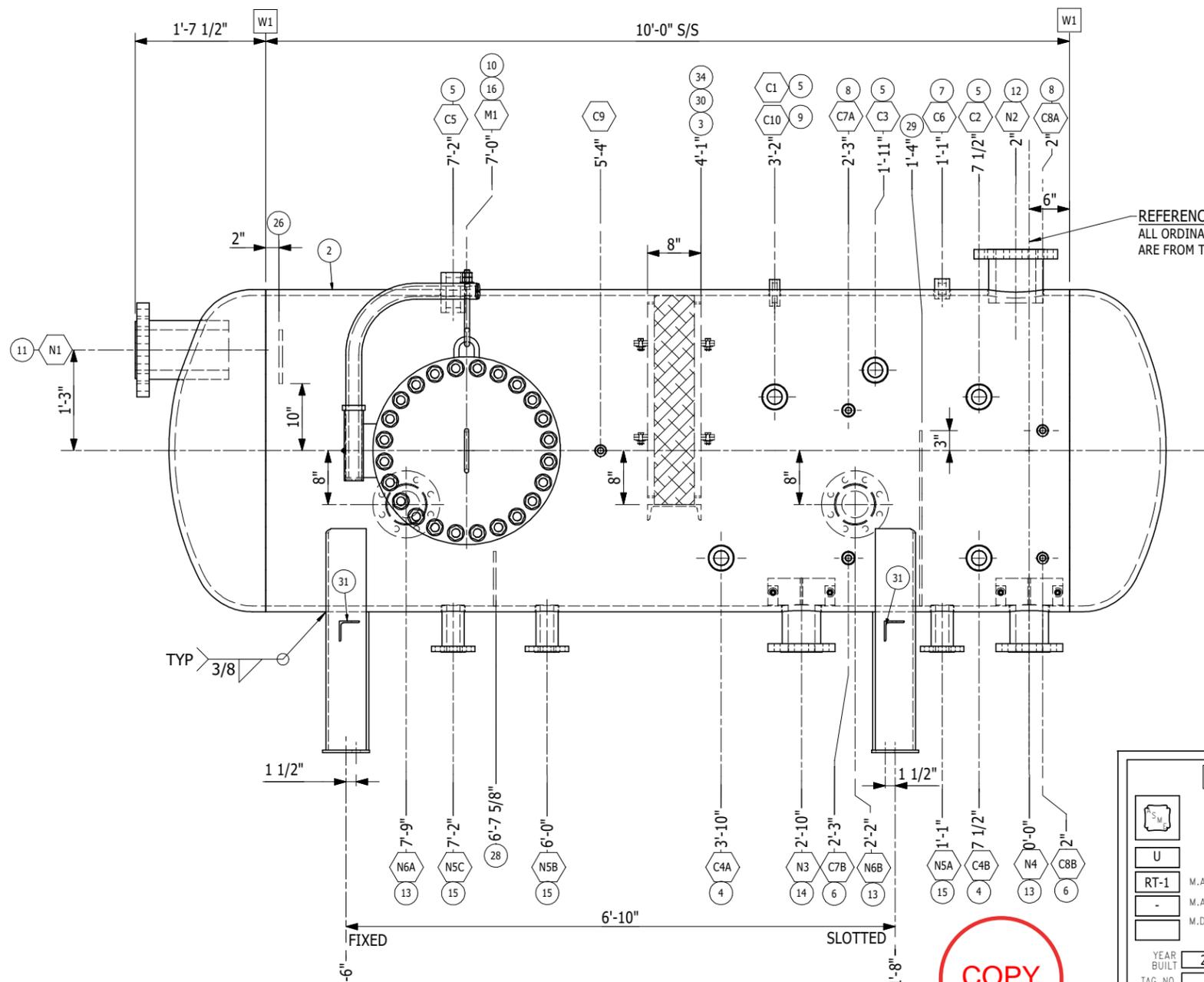
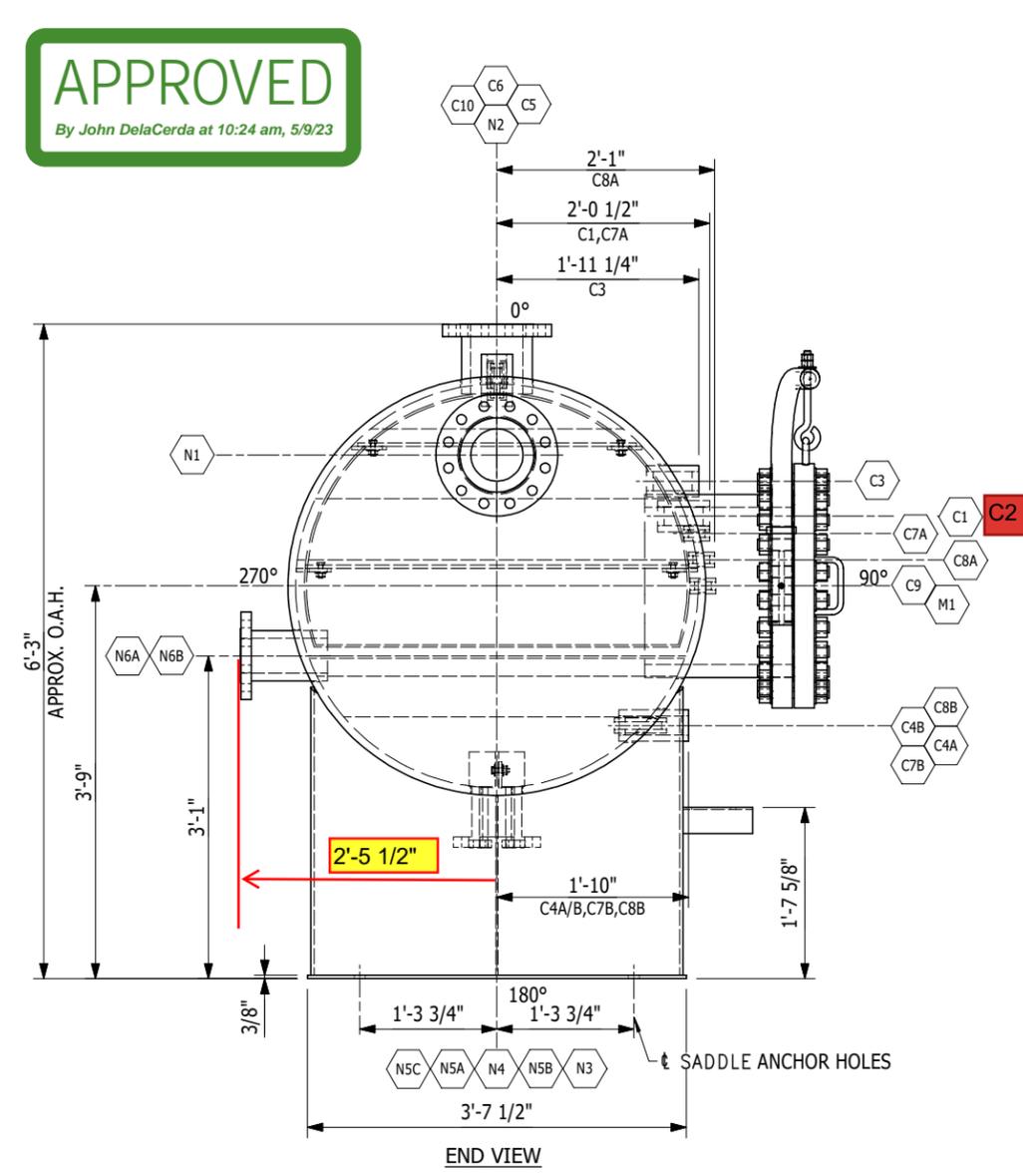


APPROVED
By John DelaCerde at 10:24 am, 5/9/23



REFERENCE LINE
ALL ORDINATE DIMENSIONS
ARE FROM THIS LINE

NOTE:
HILLSIDE ELEVATIONS LOCATED ON SHEET 2

MARK	NO. REQ'D	SIZE	RATING	TYPE	SERVICE	INSIDE PROJ.	OUTSIDE PROJ.	WELD FIGURE NUMBER	OUTSIDE FILLET (A)	INSIDE FILLET (B)	BEVEL DEPTH (C)	PAD FILLET (D)	MARK	NO. REQ'D	SIZE	RATING	TYPE	SERVICE	INSIDE PROJ.	OUTSIDE PROJ.	WELD FIGURE NUMBER	OUTSIDE FILLET (A)	INSIDE FILLET (B)	BEVEL DEPTH (C)	PAD FILLET (D)
C4	2	2"	6000#	CPLG	LLSD	N/R	ELE.	W9	3/8"	-	-	-	M1	1	18"	300#	RFLWN	MANWAY	N/R	10"	W2	3/8"	-	-	-
C3	1	2"	6000#	CPLG	HLSD	N/R	ELE.	W9	3/8"	-	-	-	C10	1	1/2"	6000#	CPLG	PRESSURE GAUGE	N/R	1 1/2"	W9	3/8"	-	-	-
C2	1	2"	6000#	CPLG	OIL LLC	N/R	ELE.	W9	3/8"	-	-	-	C9	1	3/4"	6000#	CPLG	THERMOMWELL	N/R	2"	W9	3/8"	-	-	-
C1	1	2"	6000#	CPLG	WATER LLC	N/R	ELE.	W9	3/8"	-	-	-	C8B	1	3/4"	6000#	CPLG	OIL LG	1"	ELE.	W9	3/8"	-	-	-
N6	2	4"	300#	RFLWN	ANODE	N/R	ELE.	W2	3/8"	-	-	-	C8A	1	3/4"	6000#	CPLG	OIL LG	N/R	ELE.	W9	3/8"	-	-	-
N5	3	2"	300#	RFLWN	DRAIN	FLUSH	6"	W3	3/8"	-	-	-	C7B	1	3/4"	6000#	CPLG	WATER LG	1/2"	ELE.	W9	3/8"	-	-	-
N4	1	4"	300#	RFLWN	OIL OUTLET	FLUSH	6"	W3	1/2"	-	-	-	C7A	1	3/4"	6000#	CPLG	WATER LG	N/R	ELE.	W9	3/8"	-	-	-
N3	1	4"	300#	RFLWN	WATER OUTLET	FLUSH	6"	W3	1/2"	-	-	-	C6	1	1"	6000#	CPLG	SUPPLY GAS	N/R	2"	W9	3/8"	-	-	-
N2	1	6"	300#	RFLWN	GAS OUTLET	1"	6"	W2	3/8"	-	-	-	C5	1	2"	6000#	CPLG	PSV	N/R	2"	W9	3/8"	-	-	-
N1	1	6"	600#	RFLWN	INLET	N/R	ELE.	W2	3/8"	-	-	-													

MARK	NO. REQ'D	SIZE	RATING	TYPE	SERVICE	INSIDE PROJ.	OUTSIDE PROJ.	WELD FIGURE NUMBER	OUTSIDE FILLET (A)	INSIDE FILLET (B)	BEVEL DEPTH (C)	PAD FILLET (D)	MARK	NO. REQ'D	SIZE	RATING	TYPE	SERVICE	INSIDE PROJ.	OUTSIDE PROJ.	WELD FIGURE NUMBER	OUTSIDE FILLET (A)	INSIDE FILLET (B)	BEVEL DEPTH (C)	PAD FILLET (D)
N6A	1	7-9"											N3	1	2-10"										
N5C	1	7-2"											C7B	1	2-3"										
N5B	1	6-0"											N5A	1	1-1"										
N4	1	7-1/2"											C4B	1	7-1/2"										
N3	1	0-0"											N4	1	0-0"										
N2	1	2"											C8B	1	2"										

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SCHEDULE OF OPENINGS

SCHEDULE OF OPENINGS

NOZZLE NOTES
1) DRILL & TAP 1/4" N.P.T. HOLE IN REINFORCING PADS. 2) INSIDE EDGES OF NOZZ. NECKS SHALL BE ROUNDED TO 1/8" RAD. OR HALF THE WALL THICKNESS IF LESS THAN 1/4". 3) NOZZLE PROJ. ARE FROM SHORT SIDE. 4) INSIDE PROJECTION AS NOTED ABOVE IS MINIMUM REQUIRED BY CODE AND MAY BE EXCEEDED FOR EASE OF FABRICATION.

MINIMUM TOLERANCES:
CUTS ±1/8"
ANGLES ±1/2"
WELD ASSEMBLIES ±1/8"
DECIMAL DIM. ±.005
BEND DIM. ±1/8"
LINER DIM. ±1/4"

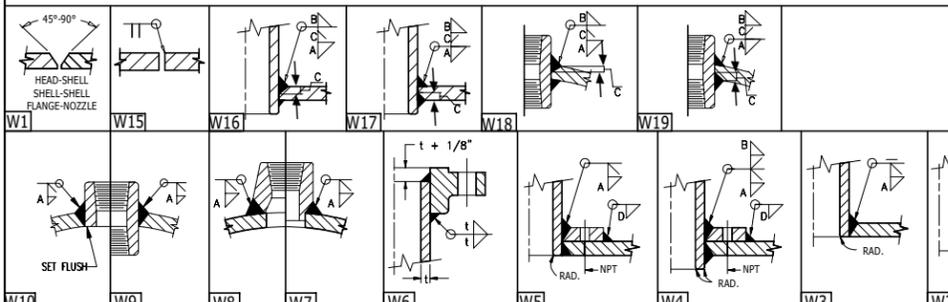
TOTAL WEIGHT = 10052 lbmass
SHOP NOTES:
1. HEADS SHALL COMPLY WITH THE REQUIREMENTS OF UCS-79(c) AND UG-81.
2. MATERIAL TEST REPORTS ARE REQUIRED FOR PRESSURE PLATE MATERIALS.
3. THE ADDITIONAL MARKING REQUIREMENTS OF SA-106, PARA. 25.2, APPLY TO CUT LENGTH OF PIPE
4. VESSEL IS EXEMPT FROM IMPACT TESTING PER UG-20(f) FOR MATERIAL 1" AND THINNER, OTHERWISE UCS-66 APPLIES.
5. ALL BOLT HOLES TO STRADDLE NATURAL HORIZONTAL AND VERTICAL CENTERLINES U.N.O.
6. VESSEL TO BE THOROUGHLY CLEANED INSIDE, AND FREE OF SLAG AND WELD SPATTER.
7. ALL INTERNAL ATTACHMENT WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.
8. ORDER NO.(*) & SERIAL NO. (**) TO BE PROJECT SPECIFIC.
9. REFERENCE PROJECT PAINT DATA SHEET FOR COATING REQUIREMENTS

WELD PROCEDURES

WPS KWI-01	WPS KWI-09
WPS KWI-02	WPS KWI-11
WPS KWI-06	WPS KWI-13

DESIGN DATA

CONSTRUCTION IN ACCORDANCE WITH 2021 EDITION OF THE A.S.M.E. CODE SECTION VIII, DIVISION 1
CODE STAMP IS REQ'D. NATIONAL BD. REG. IS REQ'D.
DESIGN PRESS. (INTERNAL) 500 P.S.I.G. @ 200 °F
DESIGN PRESS. (EXTERNAL) P.S.I. @ °F
M.A.W.P. 500 P.S.I.G. @ 200 °F LIMITED BY DESIGN
M.A.P. P.S.I.G. @ AMB. TEMP. LIMITED BY
HYDROSTATIC TEST 650 P.S.I.G. (NEW) IN HORIZONTAL POSITION
CORROSION ALLOWANCE: SHELL 1/8" HEADS 1/8" NOZZLES 1/8"
RADIOGRAPHY: SHELL(LONG SM) FULL UW-11(a) / TYPE 1
SHELL(GIRTH SM) FULL UW-11(a) / TYPE 1
JOINT EFF.: HEADS 1.0 SHELL(LONG SM) 1.0 SHELL(GIRTH SM) 1.0
ULTRASONIC EXAM. PAUT IN LIEU OF RT PER CODE CASE 2235
P.W.H.T. (STRESS RELIEVE) MINUTES AT 1,150 °F CODE CYCLE
EST. WEIGHTS: EMPTY 10052 lbmass FULL OF WATER 18,700 LBS.



NB **TBD** **KW International**
www.kwintl.com
CERTIFIED BY **KWI** FOR SERVICE AND PARTS: 1-844-594-88324
Setting the New STANDARD

U	M.A.W.P.	500	PSI	AT	200	°F
RT-1	M.A.W.P.	-	PSI	AT	-	°F
-	M.D.M.T.	-20	°F	AT	500	PSI

TEST PRESSURE 650 PSI
YEAR BUILT 2023
TAG NO. SERIAL NO. **
DWG. NO. SEPH20240 REV. 0

48 O.D. X 10'-0" S/S
HORIZONTAL 3-PHASE SEPARATOR

KWI
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ISSUED FOR CONSTRUCTION
By sconrad at 3/14/23 @ 03:16pm

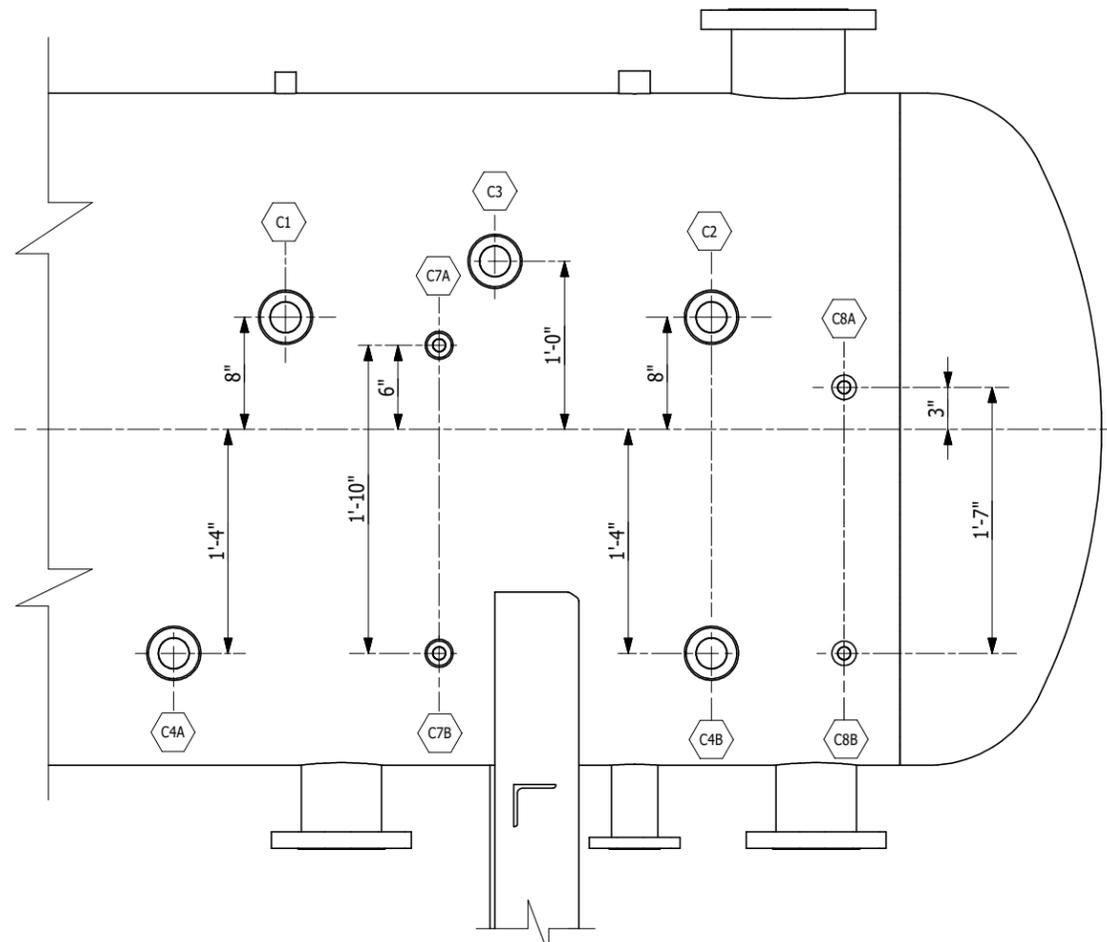
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2/28/2023	PE	SC	SC

CLIENT **KW INTERNATIONAL**

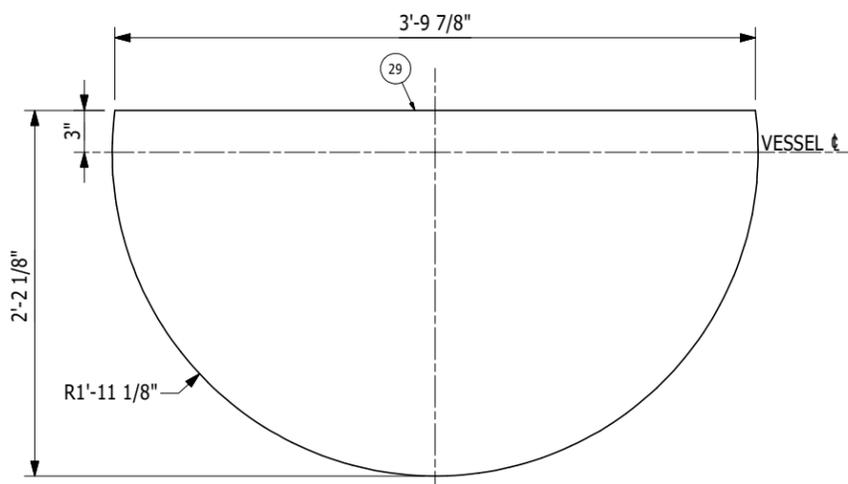
TITLE 48 O.D. X 10'-0" S/S HORIZONTAL 3-PHASE SEPARATOR

S.O.# * **

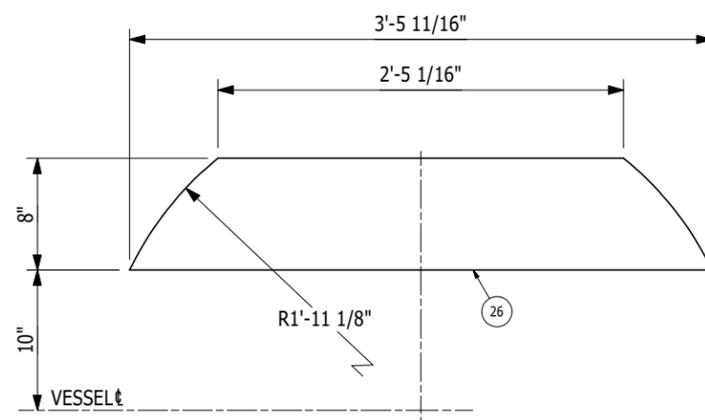
DRAWING NUMBER	SHEETS	REV
SEPH20240	SHT# 1 OF 4	0



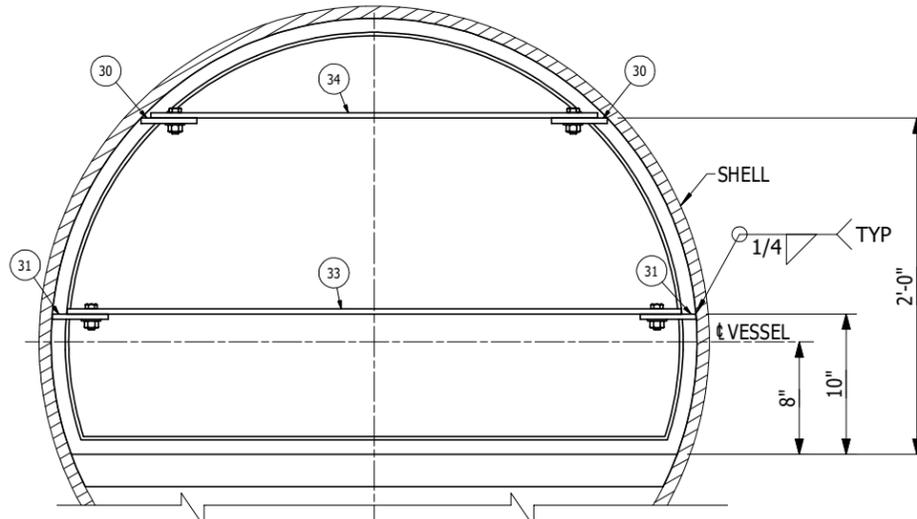
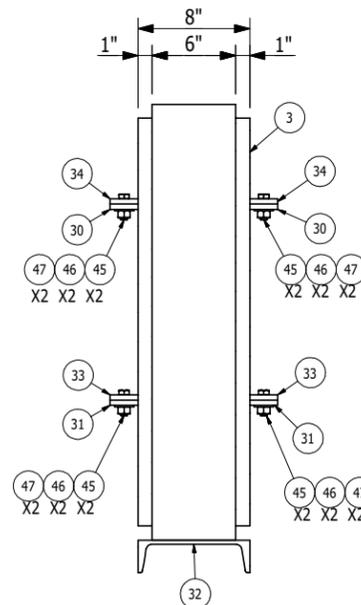
HILLSIDE NOZZLE CONNECTIONS



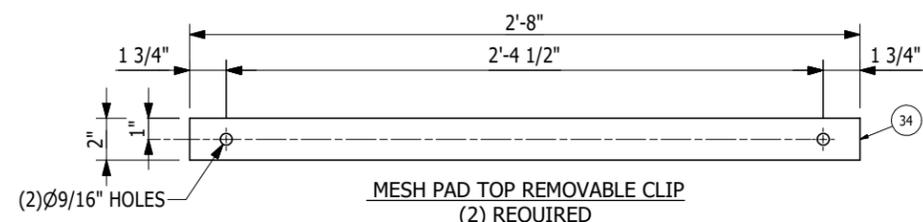
WEIR DETAIL



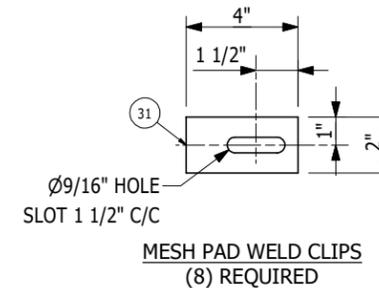
INLET DIVERTER DETAIL



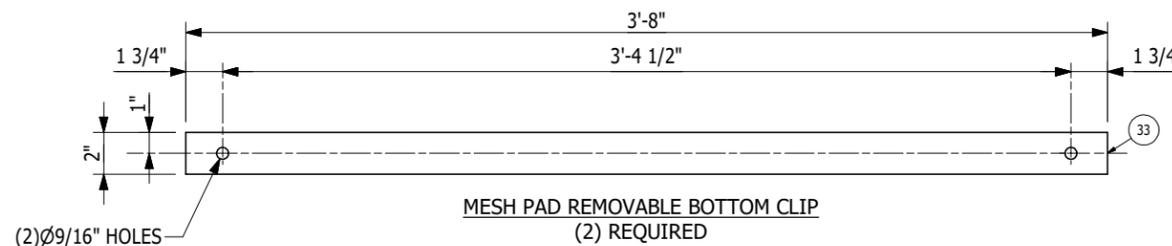
MESH PAD DETAIL



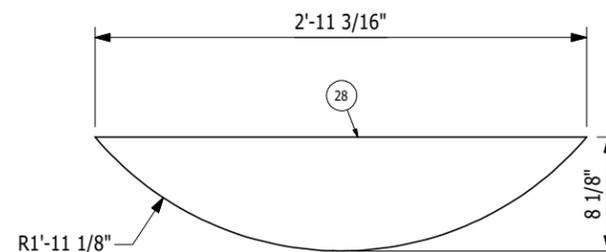
MESH PAD TOP REMOVABLE CLIP
(2) REQUIRED



MESH PAD WELD CLIPS
(8) REQUIRED



MESH PAD REMOVABLE BOTTOM CLIP
(2) REQUIRED



SAND DAM DETAIL

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APPROVED

By John DelaCerde at 10:24 am, 5/9/23

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REV	DESCRIPTION	DATE	PE	SC
0	ISSUED FOR CONSTRUCTION		PE	SC
			BY	CK

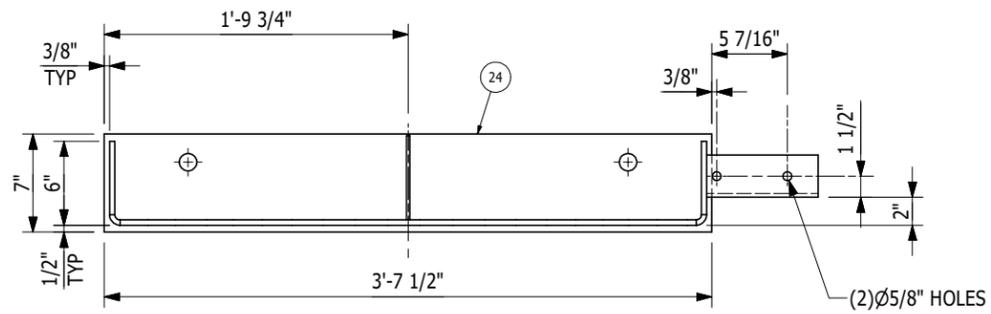
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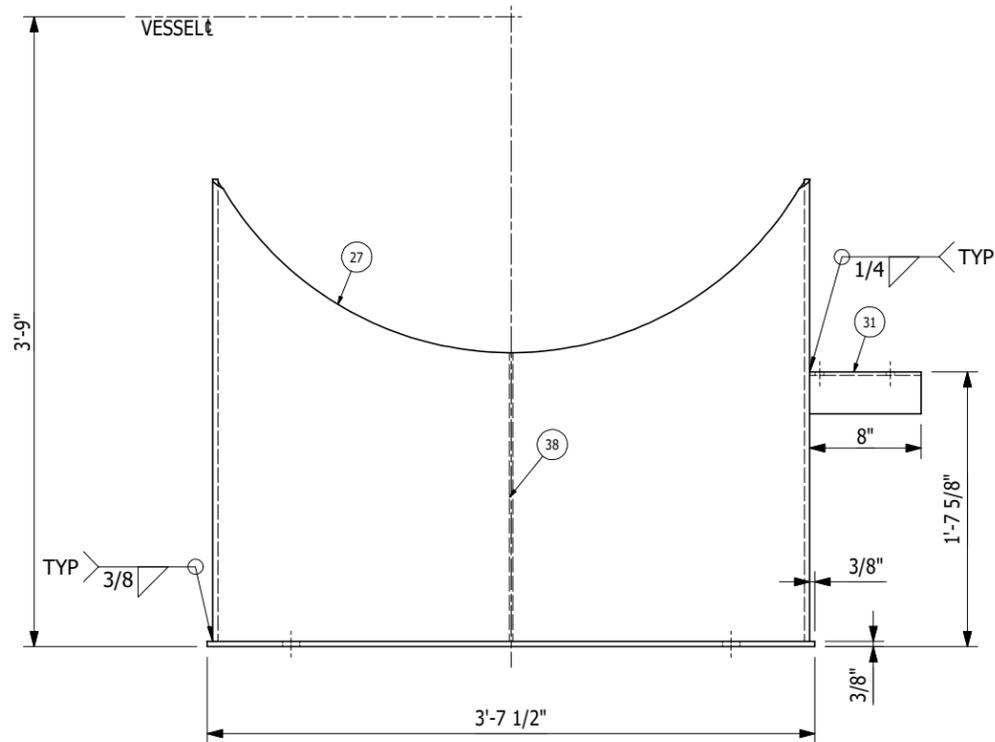
By sconrad at 3/14/23 @ 03:16pm

DATE	DRAWN	CHECKED	APPROVED
2/28/2023	PE	SC	SC
CLIENT KW INTERNATIONAL			
TITLE 48 O.D. X 10'-0" S/S HORIZONTAL 3-PHASE SEPARATOR			
S.O.# * * *			
DRAWING NUMBER	SHEETS		REV
SEPH20240	SHT# 2 OF 4		0

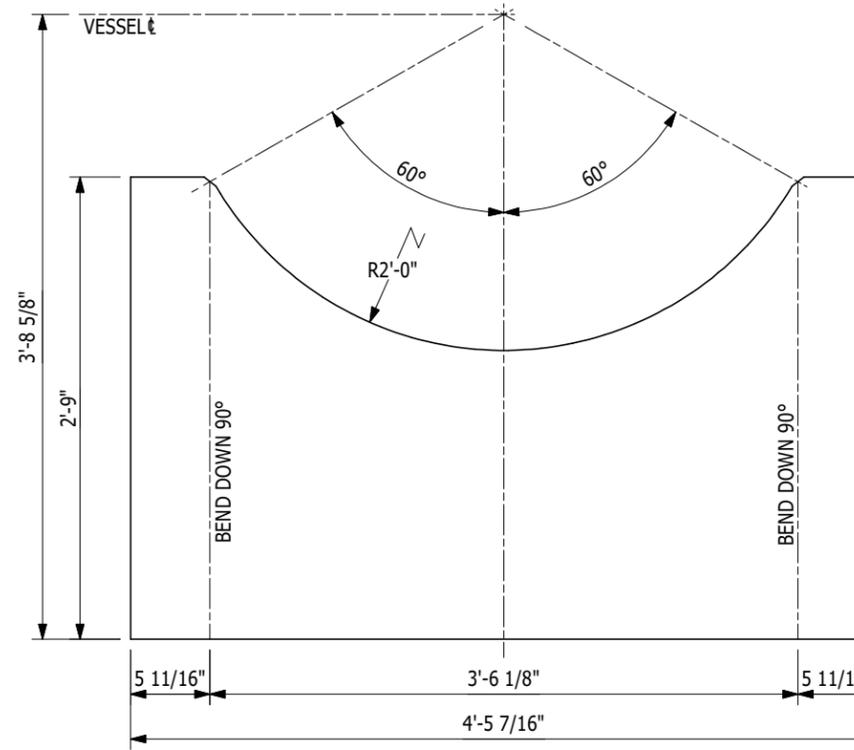
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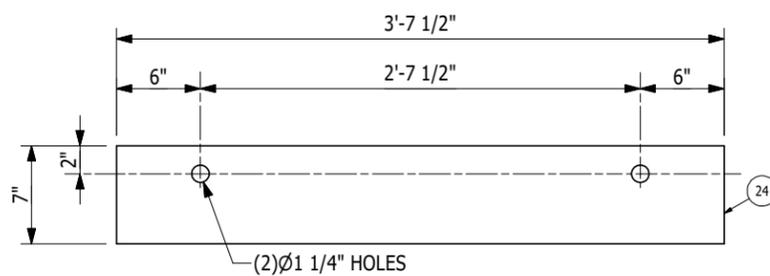
SADDLE PLAN VIEW
(FIXED SADDLE SHOWN)



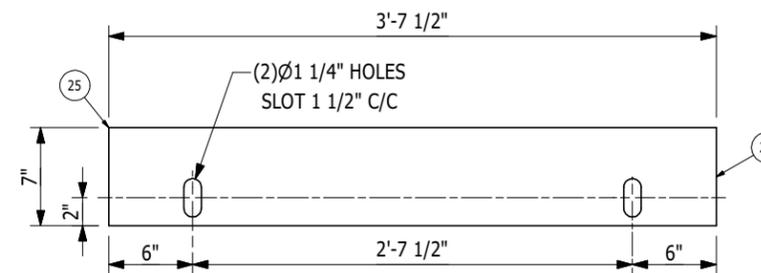
SADDLE ELEVATION
(2) REQUIRED



SADDLE WEB FLAT LAYOUT
(2) REQUIRED



FIXED BASEPLATE



SLOTTED BASEPLATE



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REV	DESCRIPTION	DATE	BY	CK	PE	SC
0	ISSUED FOR CONSTRUCTION					



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2/28/2023	PE	SC	SC

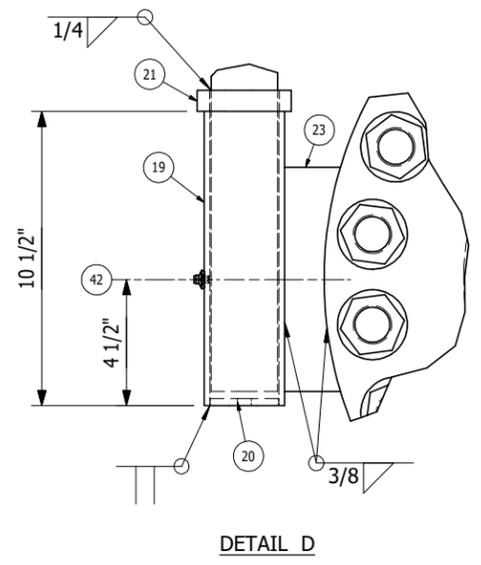
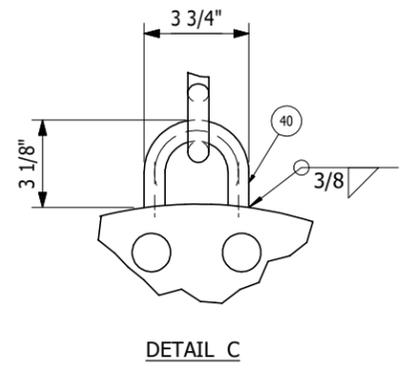
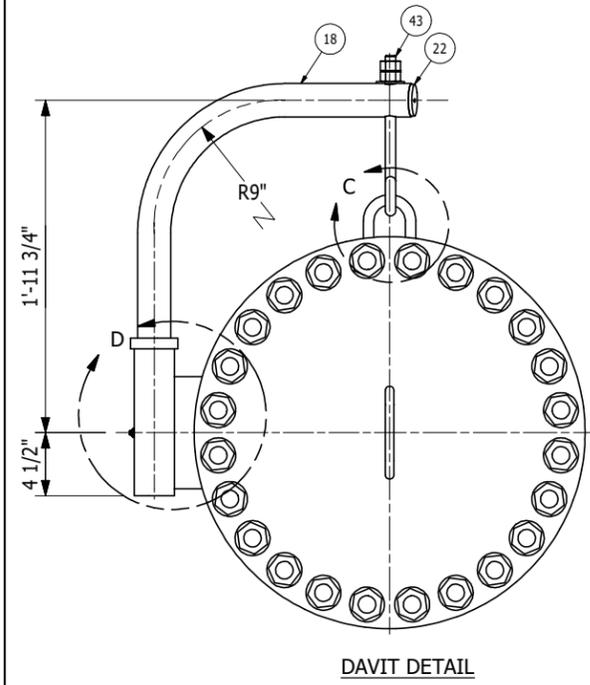
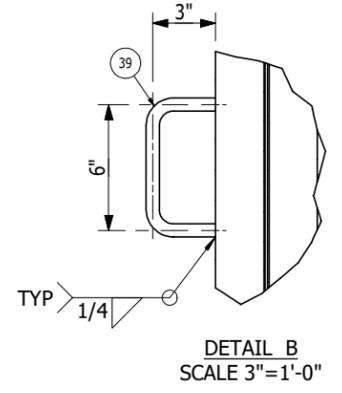
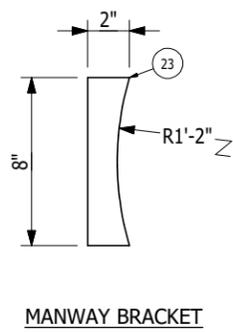
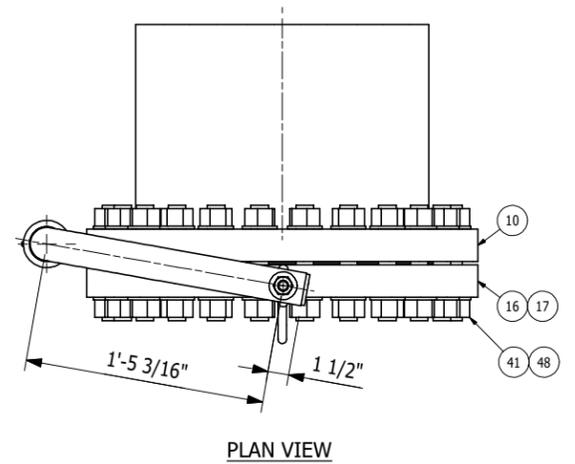
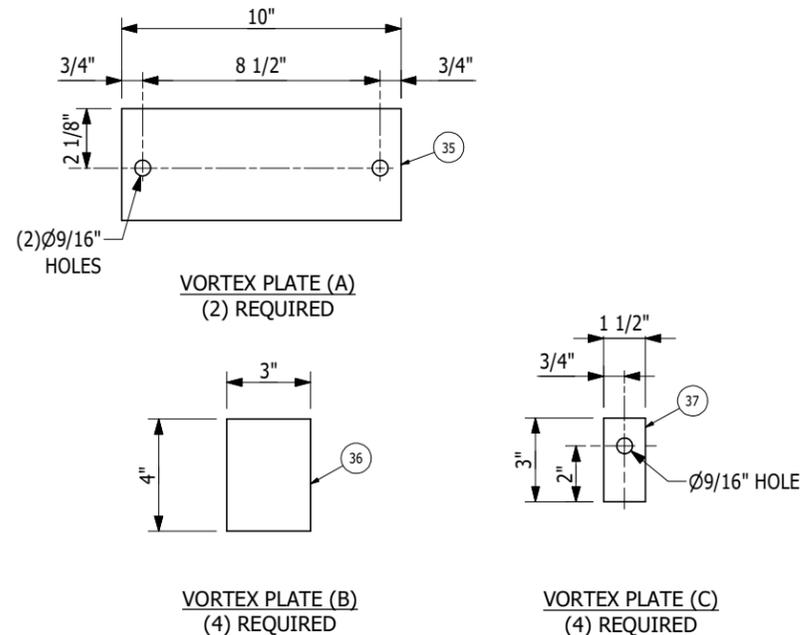
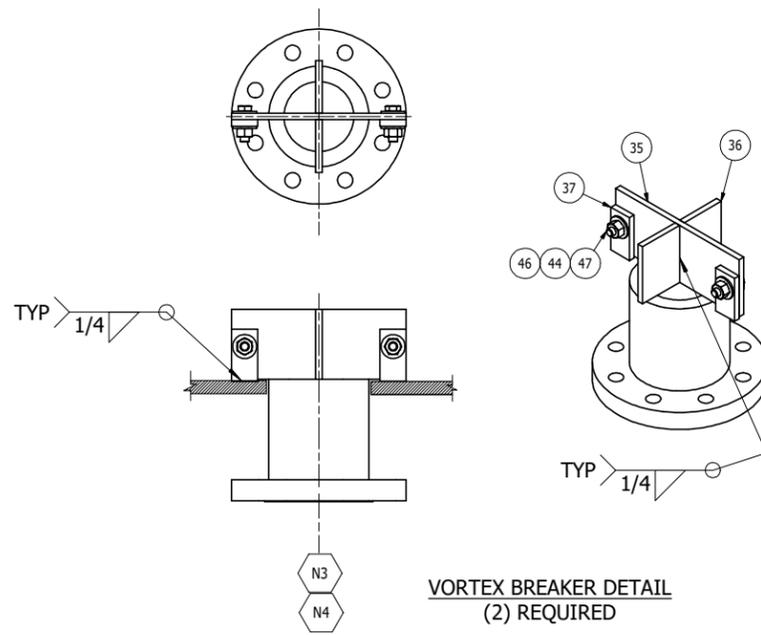
CLIENT: KW INTERNATIONAL

TITLE: 48 O.D. X 10'-0" S/S HORIZONTAL 3-PHASE SEPARATOR

S.O.#: * * *

DRAWING NUMBER	SHEETS	REV
SEPH20240	SHT# 3 OF 4	0

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BILL OF MATERIAL				DESCRIPTION	LENGTH
ITEM	ITEM QTY	PART NUMBER			
1	2	HDELPO531	HEAD, ELLP, CS, OD, 048, X, 0.875, NOM, 0.800, MIN, SA, 516, 70, N		
2	1	SHELL0513	SHELL, OD, ROLLED, WELDED, 048, X, 120, LONG, WT, 0.750, 100%, LONG, SEAM, W/MTR'S, SA, 516, 70, 30°OS, SGL, BVL		
3	1	MESH0242	MESH, ELIMINATOR, MESH, 46, 500, ID, VESSEL, W/15.25, GAP, 04, THK, MESH, 06, OAL, THK, 09#, 304L, SS, GRIDS/SUPPORTS, SS, REMOVABLE, 3, PIE CE, SEPCO		
4	2	FITNP0131	FITTING, NPT, COUPLING, LG, 105, FS, 06M, TOE, 2.000, X, 08.000, SA, 105		
5	4	FITNP0167	FITTING, NPT, COUPLING, LG, 105, FS, 06M, TOE, 2.000, X, 06.000, SA, 105		
6	2	FITNP0888	FITTING, NPT, COUPLING, LG, 105, FS, 06M, TOE, 3/4, X, 06.000, SA, 105, N		
7	1	FITNP0147	FITTING, NPT, COUPLING, LG, 105, FS, 06M, TOE, 1.000, X, 03.000, SA, 105		
8	3	FITNP0140	FITTING, NPT, COUPLING, LG, 105, FS, 06M, TOE, 0.750, X, 03.000, SA, 105		
9	1	FITNP0135	FITTING, NPT, COUPLING, LG, 105, FS, 06M, TOE, 0.500, X, 04.000, SA, 105		
10	1	FLGRF3226	FLANGE, RFLWN, ANSI, 0300#, 18.000, X, 17, LG, SA105, N, FGP		
11	1	FLGRF0791	FLANGE, RFLWN, ANSI, 0600#, 06.000, X, 14, LG, SA105, N, FGP		
12	1	FLGRF0728	FLANGE, RFLWN, ANSI, 0300#, 06.000, X, 12, LG, SA105, N		
13	3	FLGRF0723	FLANGE, RFLWN, ANSI, 0300#, 04.000, X, 10, LG, SA105, N, FGP		
14	1	FLGRF3228	FLANGE, RFLWN, ANSI, 0300#, 04.000, X, 09, LG, SA105, N, FGP		
15	3	FLGRF0709	FLANGE, RFLWN, ANSI, 0300#, 02.000, X, 07, LG, SA105, N, FGP		
16	1	FLGRF0079	FLANGE, RF, BLIND, ANSI, 0300#, 18.000, SA, 105		
17	1	GASKT0066	GASKET, SPIRAL, WOUND, 0300#, 18.000, 304, SS		
18	1	PIPE0051	PIPE, SA, 106B, SMLS, 02.000, WT, 0.436, XXH		3'-6 3/8"
19	1	PIPE0052	PIPE, SA, 106B, SMLS, 02.500, WT, 0.203, S, 040, STD		0'-10 1/2"
20	1	PLTPT0751	PLATE, MANWAY, DAVIT, ARM, SLEEVE, PLUG, 02.4375, OD, X, 0.500, ID, PLATE, 0.250, SA, 36		
21	1	PLTPT0753	MANWAY, DAVIT, ARM, BUSHING, 03.375, OD, X, 02.500, ID, PLATE, 0.750, SA, 36		
22	1	PLTPT0970	PIPE, CAP, OD, 02.250, DIAMETER, X, ID, 0.250, PLATE, 0.250, SA, 36		
23	1	PLTPT4033	PLATE, MANWAY, 16-24, DAVIT, ARM, BRACKET, 02.00, W, X, 08.000, H, RADIUS, 16.000, PLATE, 0.750, SA, 36, OR, SA516-70		
24	1	PLTPT4528	PLATE, BASE, 48.00, OD, HZ, FIXED, 07.00, W, 43.5, L, W/(2)01.25, BH, 06.000, FROM, ENDS, 0.375, PLATE, SA, 36		3'-7 1/2"
25	1	PLTPT4529	PLATE, BASE, 48.00, OD, HZ, SLIDING, 07.00, W, 43.5, L, W/(2)01.25, BH, SLOTS, 1.500, LG, 06.000, FROM, ENDS, 0.375, PLATE, SA, 36		3'-7 1/2"
26	1	PLTPT4532	PLATE, INLET, DIVERTER, 0.375, T, 41.6875, W, X, 8.000, H, 23.125, RADIUS, SA, 36		
27	2	PLTPT4533	PLATE, SADDLE, WEB, 48, OD, HZ, VESSEL, 53.4375, W, X, 33.00, H, W/90DEGREE, BENDS, 05.6875, FROM, ENDS, 0.375, PLATE, SA, 36		
28	1	PLTPT4530	PLATE, SAND, DAM, 0.375, T, 35.1875, W, X, 8.125, H, 23.125, RADIUS, SA, 36		
29	1	PLTPT4531	PLATE, WEIR, SPILLOVER, 48.00, OD, HZ, VESSEL, 45.875, W, X, 26.125H, 23.125, RADIUS, 0.375, PLATE, SA, 36		
30	8	STLFB0009	STEEL, FLATBAR, 0.375 X 02.00, SA, 36		0'-4"
31	2	STLAN0006	STEEL, ANGLE, 0.25, X, 3, X, 3, SA, 36		8"
32	1	STLCH0007	STEEL, CHANNEL, C 8x13.75, SA, 36		3'-10 1/4"
33	2	STLFB0009	STEEL, FLATBAR, 2x3/8, SA, 36		3'-8"
34	2	STLFB0009	STEEL, FLATBAR, 2x3/8, SA, 36		2'-8"
35	2	STLFB0012	STEEL, FLATBAR, 4x3/8, SA, 36		10"
36	4	STLFB0012	STEEL, FLATBAR, 4x3/8, SA, 36		3"
37	4	STLFB0036	STEEL, FLATBAR, 1 1/2x3/8, SA, 36		3"
38	2	STLFB0014	STEEL, FLATBAR, 0.375, X, 06.00, SA, 36		1'-8 5/8"
39	1	STLRL0014	STEEL, HOT, ROLL, ROUND, 0.625, SA, 36		1'-0"
40	1	STLRL0015	STEEL, HOT, ROLL, ROUND, 0.750, SA, 36		0'-6 11/16"
41	24	STUDS0088	STUD, B7, 01.250, X, 08.250, SA193, W/2H, NUTS, ZINC		
42	1	SUPPL0067	GREASE, FITTING, STRAIGHT, WITH, BALL, CHECK, 1/4-28, THREAD, 35/64, OAL, 5/16, HEX, ZINC, PLATED, STEEL, MCMASTER, CARR, ITEM, 1095K41		
43	1	EYEBT0008	EYEBOLT, 0.750, 10UNC, X, 10.00, W/05.50THREADS, (2), NUTS, AND, (2), WASHERS, GALVANIZED, SA, 307		
44	4	CSCRW0036	CAPSCREW, 316, SS, HEX, 0.500, X, 01.750, NC, 13		
45	10	CSCRW0035	CAPSCREW, 316, SS, HEX, 0.500, X, 01.500, NC, 13		
46	14	NUTHX030	NUT, HEX, 2H, 0.5, NC, 13, A194, 316SS		
47	18	WASHR0070	WASHER, FLAT, USS, 0.5, 316SS		
48	48	WASHR0137	WASHER, FLAT, SAE, 1.25, ZINC		

* FLANGES PER TRINITY / EXXON AML

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RPO109132-109136

APPROVED
 By John DelaCerde at 10:25 am, 5/9/23

KWI
 www.kwintl.com 1-844-594-4626

ISSUED FOR CONSTRUCTION

By sconrad at 3/14/23 @ 03:16pm

DATE	DRAWN	CHECKED	APPROVED
2/28/2023	PE	SC	SC
CLIENT KW INTERNATIONAL			
TITLE 48 O.D. X 10'-0" S/S HORIZONTAL 3-PHASE SEPARATOR			
S.O.# * * *			
0	ISSUED FOR CONSTRUCTION	PE	SC
REV	DESCRIPTION	DATE	BY CK
DRAWING NUMBER		SHEETS	
SEPZH0240		SHT# 4 OF 4	

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