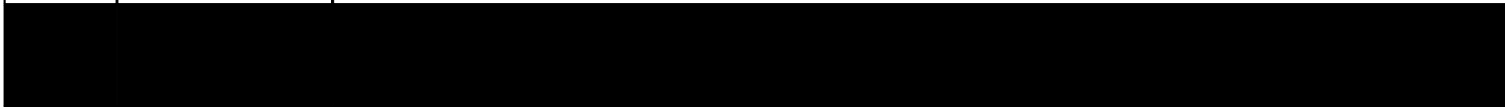
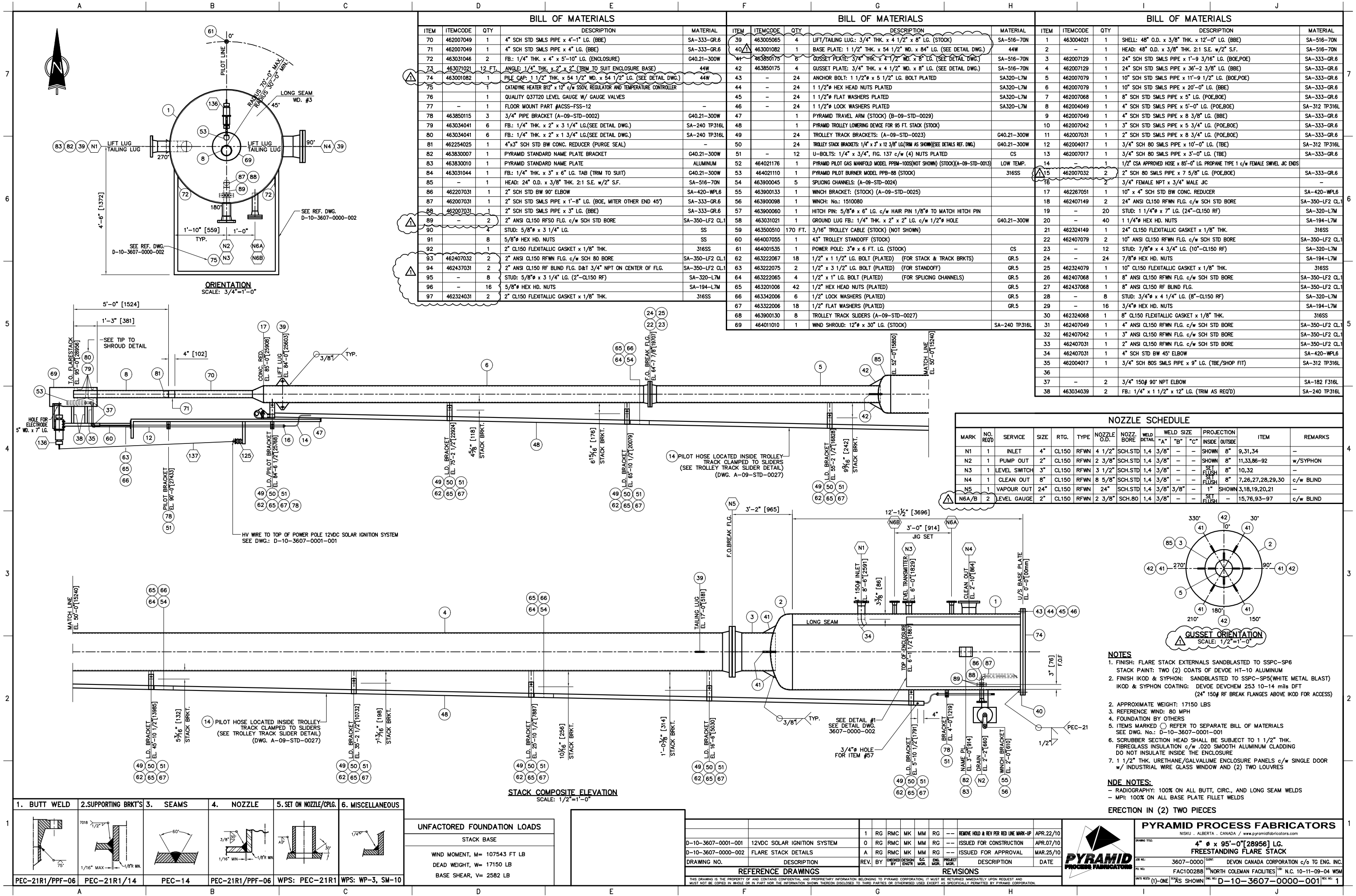




1	2010.04.23	REISSUED FOR REVIEW
0	2010.03.30	REISSUED FOR REVIEW
A	2010.03.25	ISSUED FOR REVIEW



	10-3607
	Freestanding Flare Stack
	D-10-3607-0000-001_rev1
	North Coleman 10-11-09-04 W5M (12-12 BH)
	FAC-100288

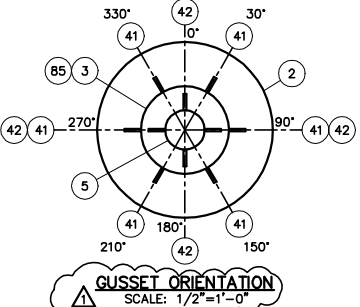


BILL OF MATERIALS				
ITEM	ITEMCODE	QTY	DESCRIPTION	MATERIAL
70	462007049	1	4" SCH STD SMLS PIPE x 4'-1" LG. (BBE)	SA-333-GR.6
71	462007049	1	4" SCH STD SMLS PIPE x 4" LG. (BBE)	SA-333-GR.6
72	463031046	2	FB: 1/4" THK. x 4" x 5'-10" LG. (ENCLOSURE)	G40.21-300W
73	463071021	12 FT.	ANGLE: 1/4" THK. x 2" x 2" (TRIM TO SUIT ENCLOSURE BASE)	44W
74	463001082	1	PILE CAP: 1 1/2" THK. x 54 1/2" WD. x 54 1/2" LG. (SEE DETAIL DWG.)	44W
75	-	1	CATADYNE HEATER B12 x 12" c/w SSOV, REGULATOR AND TEMPERATURE CONTROLLER	-
76	-	1	QUALITY Q37120 LEVEL GAUGE W/ GAUGE VALVES	-
77	-	1	FLOOR MOUNT PART #ACSS-FSS-12	-
78	463850115	3	3/4" PIPE BRACKET (A-09-STD-0002)	G40.21-300W
79	463034041	6	FB: 1/4" THK. x 2" x 3 1/4" LG.(SEE DETAIL DWG.)	SA-240 TP316L
80	463034041	6	FB: 1/4" THK. x 2" x 1 3/4" LG.(SEE DETAIL DWG.)	SA-240 TP316L
81	462254025	1	4"x3" SCH STD BW CONC. REDUCER (PURGE SEAL)	-
82	463830007	1	PYRAMID STANDARD NAME PLATE BRACKET	G40.21-300W
83	463830010	1	PYRAMID STANDARD NAME PLATE	ALUMINUM
84	463031044	1	FB: 1/4" THK. x 3" x 6" LG. TAB (TRIM TO SUIT)	G40.21-300W
85	-	1	HEAD: 24" O.D. x 3/8" THK. 2:1 S.E. w/2" S.F.	SA-516-70N
86	462207031	1	2" SCH STD BW 90° ELBOW	SA-420-WPL6
87	462007031	1	2" SCH STD SMLS PIPE x 1'-8" LG. (BOE, MITER OTHER END 45°)	SA-333-GR.6
88	462007031	1	2" SCH STD SMLS PIPE x 3" LG. (BBE)	SA-333-GR.6
89	-	2	2" ANSI CL150 RFSD FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
90	-	4	STUD: 5/8" x 3 1/4" LG.	SS
91	-	8	5/8" HEX HD. NUTS	SS
92	-	1	2" CL150 FLEXITALLIC GASKET x 1/8" THK.	316SS
93	462407032	2	2" ANSI CL150 RFWN FLG. c/w SCH 80 BORE	SA-350-LF2 CL.1
94	462437031	2	2" ANSI CL150 RF BLIND FLG. D&T 3/4" NPT ON CENTER OF FLG.	SA-350-LF2 CL.1
95	-	8	STUD: 5/8" x 3 1/4" LG. (2"-CL150 RF)	SA-320-L7M
96	-	16	5/8" HEX HD. NUTS	SA-194-L7M
97	462324031	2	2" CL150 FLEXITALLIC GASKET x 1/8" THK.	316SS

BILL OF MATERIALS				
ITEM	ITEMCODE	QTY	DESCRIPTION	MATERIAL
39	463005065	4	LIFT/TAILING LUG: 3/4" THK. x 4 1/2" x 8" LG. (STOCK)	SA-516-70N
40	463001082	1	BASE PLATE: 1 1/2" THK. x 54 1/2" WD. x 84" LG. (SEE DETAIL DWG.)	44W
41	463850175	6	GUSSET PLATE: 3/4" THK. x 4 1/2" WD. x 8" LG. (SEE DETAIL DWG.)	SA-516-70N
42	463850175	4	GUSSET PLATE: 3/4" THK. x 4 1/2" WD. x 8" LG. (SEE DETAIL DWG.)	SA-516-70N
43	-	24	ANCHOR BOLT: 1 1/2" x 5 1/2" LG. BOLT PLATED	SA320-L7M
44	-	24	1 1/2" HEX HEAD NUTS PLATED	SA320-L7M
45	-	24	1 1/2" FLAT WASHERS PLATED	SA320-L7M
46	-	24	1 1/2" LOCK WASHERS PLATED	SA320-L7M
47	-	1	PYRAMID TRAVEL ARM (STOCK) (B-09-STD-0029)	-
48	-	1	PYRAMID TROLLEY LOWERING DEVICE FOR 95 FT. STACK (STOCK)	-
49	-	24	TROLLEY TRACK BRACKETS: (A-09-STD-0023)	G40.21-300W
50	-	24	TROLLEY TRACK BRACKETS: 1/4" x 3" x 1/2" LG.(TRIM AS SHOWN)(SEE DETAILS REF. DWG.)	G40.21-300W
51	-	12	U-BOLTS: 1/4" x 3/4", FIG. 137 c/w (4) NUTS PLATED	CS
52	464021176	1	PYRAMID PILOT GAS MANIFOLD MODEL PPB-100S(NOT SHOWN) (STOCK)(A-09-STD-0013)	LOW TEMP.
53	464021110	1	PYRAMID PILOT BURNER MODEL PPB-88 (STOCK)	316SS
54	463900045	5	SPLICING CHANNELS: (A-09-STD-0024)	-
55	463900133	1	WINCH BRACKET: (STOCK) (A-09-STD-0025)	-
56	463900098	1	WINCH: No.: 1510080	-
57	463900060	1	HITCH PIN: 5/8" x 6" LG. c/w HAIR PIN 1/8" TO MATCH HITCH PIN	-
58	463031021	1	GROUND LUG FB: 1/4" THK. x 2" x 2" LG. c/w 1/2" HOLE	G40.21-300W
59	463500510	170 FT.	3/16" TROLLEY CABLE (STOCK) (NOT SHOWN)	-
60	464007055	1	43" TROLLEY STANDOFF (STOCK)	-
61	464001535	1	POWER POLE: 3" x 6 FT. LG. (STOCK)	CS
62	463222067	18	1/2" x 1 1/2" LG. BOLT (PLATED) (FOR STACK & TRACK BRKTS)	GR.5
63	463222075	2	1/2" x 3 1/2" LG. BOLT (PLATED) (FOR STANDOFF)	GR.5
64	463222065	4	1/2" x 1" LG. BOLT (PLATED) (FOR SPLICING CHANNELS)	GR.5
65	463201008	42	1/2" HEX HEAD NUTS (PLATED)	GR.5
66	463342006	6	1/2" LOCK WASHERS (PLATED)	GR.5
67	463322006	18	1/2" FLAT WASHERS (PLATED)	GR.5
68	463900130	8	TROLLEY TRACK SLIDERS (A-09-STD-0027)	-
69	464011010	1	WIND SHROUD: 12" x 30" LG. (STOCK)	SA-240 TP316L

BILL OF MATERIALS				
ITEM	ITEMCODE	QTY	DESCRIPTION	MATERIAL
1	463004021	1	SHELL: 48" O.D. x 3/8" THK. x 12'-0" LG. (BBE)	SA-516-70N
2	-	1	HEAD: 48" O.D. x 3/8" THK. 2:1 S.E. w/2" S.F.	SA-516-70N
3	462007129	1	24" SCH STD SMLS PIPE x 1'-9 3/16" LG. (BOE,POE)	SA-333-GR.6
4	462007129	1	24" SCH STD SMLS PIPE x 36'-2 3/8" LG. (BBE)	SA-333-GR.6
5	462007079	1	10" SCH STD SMLS PIPE x 11'-9 1/2" LG. (BOE,POE)	SA-333-GR.6
6	462007079	1	10" SCH STD SMLS PIPE x 20'-0" LG. (BBE)	SA-333-GR.6
7	462007068	1	8" SCH STD SMLS PIPE x 5" LG. (POE,BOE)	SA-333-GR.6
8	462004049	1	4" SCH STD SMLS PIPE x 5'-0" LG. (POE,BOE)	SA-312 TP316L
9	462007049	1	4" SCH STD SMLS PIPE x 8 3/8" LG. (BBE)	SA-333-GR.6
10	462007042	1	3" SCH STD SMLS PIPE x 5 3/4" LG. (POE,BOE)	SA-333-GR.6
11	462007031	1	2" SCH STD SMLS PIPE x 8 3/4" LG. (POE,BOE)	SA-333-GR.6
12	462004017	1	3/4" SCH 80 SMLS PIPE x 10'-0" LG. (TBE)	SA-312 TP316L
13	462007017	1	3/4" SCH 80 SMLS PIPE x 3'-0" LG. (TBE)	SA-333-GR.6
14	-	1	1/2" CSA APPROVED HOSE x 85'-0" LG. PROPANE TYPE 1 c/w FEMALE SWIVEL JC ENDS	-
15	462007032	2	2" SCH 80 SMLS PIPE x 7 5/8" LG. (POE,BOE)	SA-333-GR.6
16	-	2	3/4" FEMALE NPT x 3/4" MALE JC	-
17	462267051	1	10" x 4" SCH STD BW CONC. REDUCER	SA-420-WPL6
18	462407149	2	24" ANSI CL150 RFWN FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
19	-	20	STUD: 1 1/4" x 7" LG. (24"-CL150 RF)	SA-320-L7M
20	-	40	1 1/4" HEX HD. NUTS	SA-194-L7M
21	462324149	1	24" CL150 FLEXITALLIC GASKET x 1/8" THK.	316SS
22	462407079	2	10" ANSI CL150 RFWN FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
23	-	12	STUD: 7/8" x 4 3/4" LG. (10"-CL150 RF)	SA-320-L7M
24	-	24	7/8" HEX HD. NUTS	SA-194-L7M
25	462324079	1	10" CL150 FLEXITALLIC GASKET x 1/8" THK.	316SS
26	462407068	1	8" ANSI CL150 RFWN FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
27	462437068	1	8" ANSI CL150 RF BLIND FLG.	SA-350-LF2 CL.1
28	-	8	STUD: 3/4" x 4 1/4" LG. (8"-CL150 RF)	SA-320-L7M
29	-	16	3/4" HEX HD. NUTS	SA-194-L7M
30	462324068	1	8" CL150 FLEXITALLIC GASKET x 1/8" THK.	316SS
31	462407049	1	4" ANSI CL150 RFWN FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
32	462407042	1	3" ANSI CL150 RFWN FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
33	462407031	1	2" ANSI CL150 RFWN FLG. c/w SCH STD BORE	SA-350-LF2 CL.1
34	462407031	1	4" SCH STD BW 45° ELBOW	SA-420-WPL6
35	462004017	1	3/4" SCH 80S SMLS PIPE x 9" LG. (TBE/SHOP FIT)	SA-312 TP316L
36	-	-	-	-
37	-	2	3/4" 150# 90° NPT ELBOW	SA-182 F316L
38	463034039	2	FB: 1/4" x 1 1/2" x 12" LG. (TRIM AS REQ'D)	SA-240 TP316L

NOZZLE SCHEDULE											
MARK	NO. REQ'D	SERVICE	SIZE	RTG.	TYPE	NOZZLE O.D.	NOZZ. BORE	WELD SIZE	PROJECTION	ITEM	REMARKS
N1	1	INLET	4"	CL150	RFWN	4 1/2"	SCH.STD 1,4	3/8"	"A" "B" "C"	9,31,34	-
N2	1	PUMP OUT	2"	CL150	RFWN	2 3/8"	SCH.STD 1,4	3/8"	-	11,33,86-92	w/SYPHON
N3	1	LEVEL SWITCH	3"	CL150	RFWN	3 1/2"	SCH.STD 1,4	3/8"	-	10,32	-
N4	1	CLEAN OUT	8"	CL150	RFWN	8 5/8"	SCH.STD 1,4	3/8"	-	7,26,27,28,29,30	c/w BLIND
N5	1	VAPOUR OUT	24"	CL150	RFWN	24"	SCH.STD 1,4	3/8"	-	3,18,19,20,21	-
N6A/B	2	LEVEL GAUGE	2"	CL150	RFWN	2 3/8"	SCH.80 1,4	3/8"	-	15,76,93-97	c/w BLIND



- NOTES**
- FINISH: FLARE STACK EXTERNALS SANDBLASTED TO SSPC-SP6 STACK PAINT: TWO (2) COATS OF DEVCO HT-10 ALUMINUM
 - FINISH IKOD & SYPHON: SANDBLASTED TO SSPC-SP5(WHITE METAL BLAST) IKOD & SYPHON COATING: DEVCO DEVCHEM 253 10-14 mils DFT (24" 150# RF BREAK FLANGES ABOVE IKOD FOR ACCESS)
 - APPROXIMATE WEIGHT: 17150 LBS
 - REFERENCE WIND: 80 MPH
 - FOUNDATION BY OTHERS
 - ITEMS MARKED ○ REFER TO SEPARATE BILL OF MATERIALS SEE DWG. No.: D-10-3607-0001-001
 - SCRUBBER SECTION HEAD SHALL BE SUBJECT TO 1 1/2" THK. FIBREGLASS INSULATION c/w .020 SMOOTH ALUMINUM CLADDING DO NOT INSULATE INSIDE THE ENCLOSURE
 - 1 1/2" THK. URETHANE/GALVALUME ENCLOSURE PANELS c/w SINGLE DOOR w/ INDUSTRIAL WIRE GLASS WINDOW AND (2) TWO LOUVRES

NDE NOTES:

- RADIOGRAPHY: 100% ON ALL BUTT, CIRC., AND LONG SEAM WELDS
- MPI: 100% ON ALL BASE PLATE FILLET WELDS

ERECTION IN (2) TWO PIECES

1. BUTT WELD	2.SUPPORTING BRKT'S	3. SEAMS	4. NOZZLE	5. SET ON NOZZLE/CPLG.	6. MISCELLANEOUS
PEC-21R1/PPF-06	PEC-21R1/14	PEC-14	PEC-21R1/PPF-06	WPS: PEC-21R1	WPS: WP-3, SM-10

UNFACTORED FOUNDATION LOADS	
STACK BASE	
WIND MOMENT, M= 107543 FT LB	
DEAD WEIGHT, W= 17150 LB	
BASE SHEAR, V= 2582 LB	

REFERENCE DRAWINGS		REVISIONS	
D-10-3607-0001-001	12VDC SOLAR IGNITION SYSTEM	1	RG RMC MK MM RG -- REMOVE HOLD & REV PER RED LINE MARK-UP
D-10-3607-0000-002	FLARE STACK DETAILS	0	RG RMC MK MM RG -- ISSUED FOR CONSTRUCTION
D-10-3607-0000-002	FLARE STACK DETAILS	A	RG RMC MK MM RG -- ISSUED FOR APPROVAL
DRAWING NO.	DESCRIPTION	REV.	BY
REFERENCE DRAWINGS		REVISIONS	
THIS DRAWING IS THE PROPERTY OF AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION BELONGING TO PYRAMID CORPORATION; IT MUST BE RETURNED IMMEDIATELY UPON REQUEST AND MUST NOT BE COPIED IN WHOLE OR IN PART NOR THE INFORMATION SHOWN THEREON DISCLOSED TO THIRD PARTIES OR OTHERWISE USED EXCEPT AS SPECIFICALLY PERMITTED BY PYRAMID CORPORATION.		DATE	

PYRAMID PROCESS FABRICATORS
NISKU, ALBERTA, CANADA / www.pyramidfabricators.com

4" x 95'-0" (28956) LG. FREESTANDING FLARE STACK

FOR NO.: 3607-0000
FOR NO.: FAC1002288
UNITS REQ'D: (1)-ONE
FOR NO.: 3607-0000
FOR NO.: FAC1002288
UNITS REQ'D: (1)-ONE

DATE: APR.22/10
DATE: APR.07/10
DATE: MAR.25/10