



CONT. ON DWG.
E-01-004

900mm
CABLE TRAY

ASF-300-1
ASF-300-2
ASF-300-3
XVPS-30207

TMF-300-1
TMF-300-2
TMF-300-3
COM-300-1

COM-300-2

C-300 AMINE BUILDING

18288 x 5791
EAVE HEIGHT - 4496

BILL OF MATERIALS

(AS REQUIRED)

FIXTURES

- CROUSE HINDS #VMV2T150GP 120V, 150W HIGH PRESSURE SODIUM, WALL MOUNT FIXTURE c/w GLOBE, GUARD AND LAMP. CLASS I, ZONE 2.
- CROUSE HINDS #EVLPA143151 120V, 150W HIGH PRESSURE SODIUM, PENDANT MOUNT FIXTURE c/w GLOBE, GUARD AND LAMP. CLASS I, ZONE 1 & 2, EXPLOSION PROOF.
- APPLETON CHM70LASH c/w GUARD & LAMP 120/240VAC, 70W HIGH PRESSURE SODIUM WALL MOUNT CLASS I, ZONE 2.

MATERIALS

- CROUSE HINDS #DSFS933 ON/OFF SWITCH, 277VAC, 20AMPS MAX. SINGLE POLE. CLASS I, DIV 1, EXPLOSION PROOF.
- CROUSE HINDS CEAG #GHG4341115L9003 THREE POSITION CONTROL STATION c/w 2.2kohm SPEED POT, LOCAL/REMOTE SWITCH AND ON/OFF SWITCH. CLASS I, ZONE 1, EXPLOSION PROOF.
- CROUSE HINDS #CPS152R DELAYED ACTION RECEPTACLE, 115-250VAC, 20AMPS, 1HP MAX. CLASS I, DIV 1, EXPLOSION PROOF.
- RUFFNECK ELECTRIC UNIT HEATER, 480VAC, 3ø, SIZED AS PER DRAWING, EXPLOSION PROOF. (OWNER SUPPLIED)
- HEATING THERMISTAT, 120VAC CONTROL, CLASS I, DIV. 1, EXPLOSION PROOF.
- CROUSE HINDS CEAG #GHG432KLM00SGT551211/2511 ESD PUSHBUTTON c/w RED SHROUD AND MIN. 4" x 6" ESD WARNING LAMICOID. CLASS I, ZONE 1, EXPLOSION PROOF.
- NEMA 4 STEEL ENCLOSURE SIZED AS PER DRAWING c/w BACK PAN, TERMINAL BLOCKS AND MOUNTING HARDWARE.
- HOFFMAN #A-NM6 JUNCTION BOX DRAIN SEAL.
- NET SAFETY MOD. #MLP-A-SC1100-SEP MILLENNIUM COMBUSTIBLE GAS DETECTOR, 24VDC c/w 4-20mA SIGNAL OUTPUT, SEPARATOR KIT AND CCS-1 SPLASH GUARD.
- NET SAFETY MOD. #MLP-A-ST1400-25 MILLENNIUM O₂ GAS DETECTOR, 24VDC c/w 4-20mA SIGNAL OUTPUT, SEPARATOR KIT AND CCS-1 SPLASH GUARD.
- PLANT ALARM BEACON, 24VDC, RED, ROTATING, ZONE 2.

- #2/0-#2/0 C-TAP SPLICE, INSTALLED c/w TAPE AND GLYPTOL SPRAY.
- #2/0-#2 C-TAP SPLICE, INSTALLED c/w TAPE AND GLYPTOL SPRAY.
- 300mm x 75mm COPPER CLUB GROUND RODS c/w
- GROUND WELL;
- INSPECTION COVER;
- GROUND ROD CLAMP (#2/0).
- GROUNDING SERVIT POST - #2/0 OR #2 AS REQUIRED.
- BUILDING BONDING PLATE c/w #2 CRIMP-ON LUG.
- 1/4" OR 1/2" BOLT c/w #2 CRIMP-ON LUG.
- #2/0 CABLE TRAY BONDING CONNECTOR.

NOTES:

- ALL WIRING TO THE SKID DEVICES SHALL BE TAKEN FROM THE RIGHTHAND SIDE OF THE TERMINALS, DIRECT WITHOUT SPLICES OF ANY KIND.
- WIRING FOR ALL DEVICES SHALL BE TAGGED AS PER J.BOX LAYOUTS.
- FIELD CONTRACTOR TO ENSURE ALL INCOMING/EXITING TECK CABLES ARE c/w GROUNDING BUSHINGS.
- ALL J.BOXES ARE TO HAVE LAMICOID NAME PLATES AS PER DRAWINGS.
- FIELD CONTRACTOR WILL BE RESPONSIBLE FOR GROUNDING AS WELL AS THE PACKING AND POURING OF ALL SEALS. THIS APPLIES WHETHER OR NOT THE SKID ARRIVES PRE-WIRED.
- CONDUIT METHOD WILL BE RA c/w ALL FITTINGS.
- ALL CABLES TO ENTER/EXIT THE BOTTOM OF THE J.BOXES. ALL CONDUIT TO ENTER/EXIT THE TOP OF THE J.BOXES VIA MYERS HUB.
- THE INTERIOR OF THIS SKID IS CLASSIFIED CLASS-1 ZONE-2. THE EXTERIOR OF THIS SKID IS CLASSIFIED CLASS-1 ZONE 2 FOR THE FIRST 3 METERS.
- INSTALLATION TO BE DONE ACCORDING TO GENERAL SPEC. INCLUDED WITH BID PACKAGE.
- LEL DETECTORS TO BE INSTALLED USING OWNER SUPPLIED SEPARATION KITS. SEPARATION KITS TO BE MOUNTED ON WALL @ APPROXIMATELY 1500mm TO CENTER.
- ALL VERTICAL CABLE TRAY RISERS ARE TO BE COMPLETE WITH PROPER SUPPORTS AND ALUMINUM TRAY COVER.
- WINDOWS AND DOORS ARE NOT TO BE USED FOR VENTILATION.
- LIGHTING LOCATION IS CONCEPTUAL ONLY.

PERMIT STAMP:

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GENERAL NOTES:

- "POST CONSTRUCTION DRAWINGS" ARE GENERATED FROM CONSTRUCTION CHANGES BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWINGS AND FOR THE LOCATION OF ALL ELECTRICAL EQUIPMENT.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND OR ELECTRIFICATION IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL ELECTRICAL EQUIPMENT ON A FACILITY NOT DESIGNED BY BDR. BDR IS ONLY RESPONSIBLE AS A REPRESENTATIVE OF WHAT EXISTS AND MUST BE VERIFIED BY THE OWNER.

	BY	DATE
DESIGN	BGO	05.07.18
DRAWN	FC	05.07.18
CHK'D	BGO	05.09.02
APP'D	RLB	05.09.02
L.S.D.	11-17-63-06 W5M	



FORT ENERGY CORP.

CLEARWATER GAS PLANT
C-300 AMINE BUILDING
CONTROL ELECTRICAL LAYOUT

SCALE	DRAWING NUMBER	REV
1 : 30	D-43874-E-17-002	5

NO.	REVISION	PROJECT	DSN	DRN	CHK'D	APP'D	DATE
5	POST CONSTRUCTION REVISIONS	64165	BGO	DC	BGO		07.05.14
4	POST CONSTRUCTION REVISIONS	43874	BGO	AO	BGO		05.12.09
3	ISSUED FOR CONSTRUCTION	43874	BGO	FC	BGO	RLB	05.09.02
2	ISSUED FOR BID	43874	BGO	FC	BGO		05.08.16
1	ISSUED FOR SKID CONSTRUCTION	43874	BGO	FC	BGO		05.08.08
0	ISSUED FOR APPROVAL	43874	BGO	FC	BGO		05.08.08