

# ConocoPhillips

Canada  Oil Sands  
Surmont 2 Project



BANTREL	JOB	VP NO.	REV
VENDOR PRINT	1061-P-1501-0021		1
EQUIPMENT NUMBER	299-SUB-7001 THRU 7014/ 7101 THRU 7104		
CLIENT CROSS REF			

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods or materials developed or selected by the supplier and does not relieve the supplier from full compliance with contractual obligations.

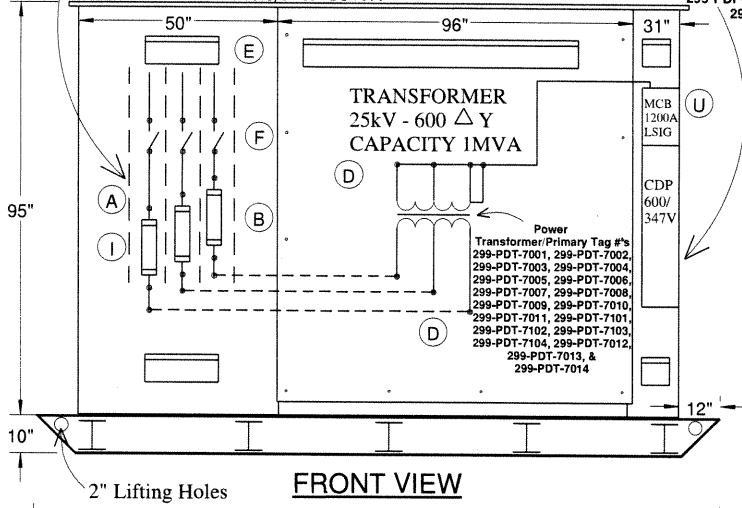
1. ☒ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed subject to incorporation of changes indicated.
3. ☐ Revise and resubmit. Work may NOT proceed.
4. ☐ Review not required. Work may proceed.

BY: S. Ravuthan DATE: Oct 20/11

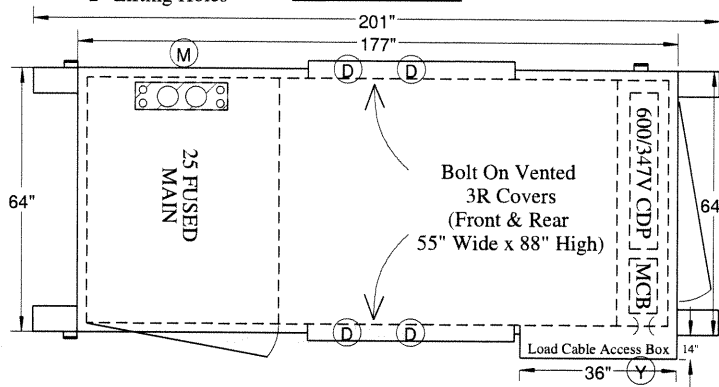
# PORTABLE HIGH VOLTAGE UNIT SUB SKID - SERIES PHV-US

Main H.V. Switch Tag #'s 299-LBS-7001, 299-LBS-7002, 299-LBS-7003, 299-LBS-7004, 299-LBS-7005, 299-LBS-7006, 299-LBS-7007, 299-LBS-7008, 299-LBS-7009, 299-LBS-7010, 299-LBS-7011, 299-LBS-7101, 299-LBS-7102, 299-LBS-7103, 299-LBS-7104, 299-LBS-7012, 299-LBS-7013, & 299-LBS-7014

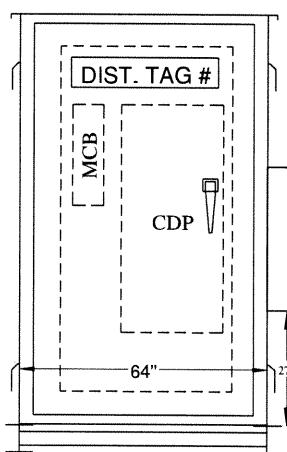
Distribution Panel Tag #'s 299-PDP-3001, 299-PDP-3002, 299-PDP-3003, 299-PDP-3004, 299-PDP-3005, 299-PDP-3006, 299-PDP-3007, 299-PDP-3008, 299-PDP-3009, 299-PDP-3010, 299-PDP-3011, 299-PDP-3101, 299-PDP-3102, 299-PDP-3103, 299-PDP-3104, 299-PDP-3012, 299-PDP-3013, & 299-PDP-3014



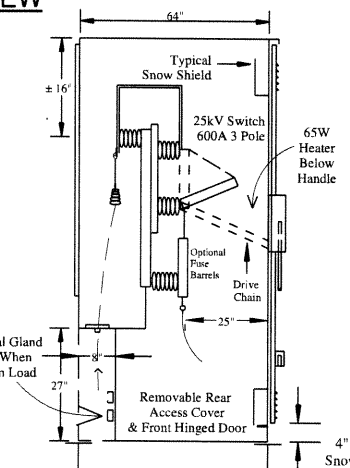
**FRONT VIEW**



**TOP VIEW**



**CDP SIDE END VIEW**



**High Voltage Side End View**

## Model #S-PHV-US

- \* EEMAC 3R Enclosure - Weatherproof
- \* Designed As A H.D. Portable Skid Mounted Power Distribution Centre c/w Primary 25kV 3P 600A Fused Disconnect, 25kV - 600V Transformer, 600V 1200A LSIG Secondary Breaker, & CDP
- \* I-Beam 10" Skid Base c/w 14" End Overhang, End Lifting Eyes, & Cross Members
- \* 25kV Primary Switch Cubical Has Rear Access & Feed Through Lugging For 3c - 25kV Teck, c/w Lower Cable Entry Plate & Space For Customer Lugs & Terminators. Disconnect Switch Is ABB NALF 600A 3 Pole Load Make/Load Break & Lever Handle, Chain Drive, Door Interlock, & DIL50 Fuses. Feed In Lugs Have Vertical Isolation Barriers. Shield & Line Ground Bus Is Interconnected To Transformer & CDP Compartments. Front & Rear Doors Are Hinged c/w Padlockable Bolt Fasteners. Front Has Window To View Switch c/w Labeling As Noted On ESK #5
- \* Transformer Is Federal Pacific #TK1000, 1000kVA 25kV - 600/347 Δ Y c/w 2 & 2 Secondary Load Taps @ 5% - 60Hz. Individual Access Covers For Front & Rear Are Bolt Fitted
- \* Primary & Secondary Are Cable Connected To HV Switch & CDP To Allow For Flex.
- \* 600V CDP Has Siemens ND63B120 - 1200A 3 Pole LSIG Main Breaker. CDP Is Siemens FC1 - 18kAIC Style (See Single Line For Breaker Counts). Exterior Door Has Full Hidden Piano Hinge & Padlocking Clasps. CDP Has Dead Front Inner Cover
- \* Assembly Is Sized 95" x 177" x 64" Plus 10" Lower Skid c/w 12" Skid End Overhang, Rated EEMAC 3R, & Finished In ASA 61 Grey Powder Coat
- \* Rear Of HV Section Has 600V CDP Cable Entry Box c/w Screw Cover Sized 36" x 40" x 14" Mounted 24" From Top Of Skid & Is Designed For Easy Field Load Side Cable Access To CDP Circuit Breakers
- \* Assembly Has 65W Heater & Thermostat In HV Cell
- \* HV Switch & Transformer Covers/Door All Have Padlocking Model #DPLBC Bolt Covers On Primary Disconnect

## NOTES:

- Fuse Location Will Vary Depending On Transformer Bushing Connection
- Interior Component Dimensions May Vary At Time Of Manufacture.
- Exterior Dimensions Will Not.

This Drawing/Design Belongs To A.C. DANDY & Shall Not Be Reproduced Or Used Without The Written Approval Of Same

(Refer To ESK #13 For Notes)

○ Denotes Labels See ESK #'s 22, 23, & 24



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"ELECTRICAL ENCLOSURE & EQUIPMENT MANUFACTURERS"

DATE	REV	DESCRIPTION:
11-03-25	00	25kV Power Dist. Centre
11-03-30	01	PROJECT NAME:
11-10-18	02	Surmont 2 Project
		CUSTOMER NAME:
		Bantrel Co./Conoco Phillips
		DRAWING NUMBER:
		AB11032507 ESK #15
DRAWN BY:	AB	