



# **MANDATORY DATA PACKAGE**

**HUSKY ENERGY**

**PO#: 8400005282**  
**AFE#: US-24523-CG**

**UNIT # SAA-08247**

**JOB # I-987**

**NISKU HEAD OFFICE / MANUFACTURING / SERVICE**

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## PACKAGE

<b>Data Collected By:</b> _____		<b>Entry Date:</b> _____		<b>Package ID #</b> I-987	
<b>Equipment Class</b> Package		<b>Purchase Order #</b> 8400005282			
<b>Equipment Description:</b> 222 LP SAA-SCROLL SERIES				<b>Tag No.</b> SAA-08247	
<b>Facility:</b> _____					
<b>Location:</b> LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
<b>Cost Center:</b> _____		<b>Acquis Value</b> _____		<b>Acquis Date</b> _____	
<b>Equipment Status:</b> _____		<b>Ownership Status</b> _____			
<b>Manufacturer:</b> PC COMPRESSION INC.		<b>Year Built</b> 2008			
<b>Equipment Condition:</b> _____		<b>Model No.</b> _____		<b>Serial No.</b> _____	
<b>Construction:</b> _____					
<b>Skid Weight:</b> 9200 lbs		<b>Skid Size</b> 8 x 15 x 11 ft		(w x l x h)	
<b>Code</b>					
<b>Common Characteristics</b>					
<b>Design Flow</b> _____		<b>Service</b> sweet			
<b>Compressor / Pump Packages</b>					
<b>Compressor Type</b> Rotary					
<b>Pump Type</b> _____					
<b>Driver</b> _____		<b># Stages</b> _____			
<b>Inlet ANSI Rating</b> ANSI		<b>Final Discharge ANSI Rating</b> _____		ANSI	
<b>Separator / Dehydrator / Treater / Line Heater / Tank Package</b>					
<b>Orientation:</b> _____		<b>Vessel Diameter</b> _____			
<b>ANSI Rating</b> ANSI		<b>MAWP</b> _____		<b>Internally Coated</b> _____	
<b>Reboiler / Burner Duty</b> _____					
<b>Inlet / Metering &amp; Group Test Packages</b>					
<b>ANSI Rating</b> ANSI		<b># Inlets</b> _____			
<b>Material Transfer Information</b>					
<b>Transfer Recorded By:</b> _____		<b>Date</b> _____			
<b>From</b> LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
<b>Transfer Yard</b> _____					
<b>To</b> LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
<b>Facility</b> _____		<b>Receiving AFE</b> _____			
<b>Additional Notes</b>					

## BUILDINGS AND STRUCTURES

Data Collected By:		Entry Date:		Package ID # I-987
Equipment Class	▼	Purchase Order # 840005282		
Equipment Description:	222 LP SAA-SCROLL SERIES			Tag No.
Facility:				
Location:	LSD ▼	Sec ▼	Twp ▼	Rge ▼ W/ ▼
Cost Center:	Acquis Value		Acquis Date	
Equipment Status:	▼	Ownership Status		▼
Manufacturer:	PC COMPRESSION INC.			Year Built 2008
Equipment Condition:	▼	Model No.	Serial No.	
Construction:	▼			
Skid Weight:		▼	Skid Size	▼ (w x l x h)
<b>Additional Characteristics for Buildings</b>				
Construction Type:	SELF FRAMER			
Building Elec Class	CLASS I DIV II			
Shell:	22 GAUGE	Colour	GALVANIZED	
Humidifier	N ▼	Elevator	N ▼	Air Conditioning N ▼
Foundation Type:	W6 x 15			
<b>Additional Characteristics for Monorails</b>				
Capacity:	Tons / Tonnes			
<b>Additional Characteristics for Bridges</b>				
Type:	▼	Capacity:	▼	Foundation
Width:	▼	Length	▼	Deck
<b>Additional Characteristics for Lift Equipment</b>				
Type:	▼	Width	▼	Height
Wire/Chain Mat. Type:		Hook Type		Lift Capacity
<b>Material Transfer Information</b>				
Transfer Recorded By:				
From	LSD ▼	Sec ▼	Twp ▼	Rge ▼ W/ ▼
Transfer Yard				
To	LSD ▼	Sec ▼	Twp ▼	Rge ▼ W/ ▼
Facility				Receiving AFE
<b>Additional Notes</b>				

Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates



HUSKY ENERGY  
PO#: 8400005282 AFE: US-24523-CG  
QPS CERTIFIED: QC54937  
JOB # I-987  
UNIT # SAA-08247

## COMPONENTS

### COMPRESSOR ASSEMBLY:

#### CA-210

MAKE: COPELAND SCROLL  
MODEL NO: SZ022C3A-EDE-234  
INLET PRESS: 2" W.C. /MAX 10 PSIG  
DISCHARGE PRESS SETTING: 215 PSIG  
275VAC / 3 PH / 60 Hz  
PEAK OPERATING AMPS: 16.3  
SERIAL NO: 08F0A301K  
QPS CERTIFIED: QCC-98048

### COMPRESSOR:

#### C-210

MAKE: COPELAND SCROLL  
MODEL NO: ZNH22C3A-KXX-265  
MAX DISCHARGE PRESS: 450 PSIA  
275VAC / 3 PH / 60 Hz  
PEAK OPERATING AMPS: 16.3  
RPM: 3600  
SERIAL NO: 08FA7549K

### COMPRESSOR OIL FILTER:

#### F-210

MAKE: COPELAND SCROLL  
PART NO: 513-0019-01

### COMPRESSOR OIL SEPARATOR:

#### V-210

MAKE: COPELAND SCROLL  
PART NO: 548-2116-01  
RATED PRESSURE: 250 PSIG

### COMPRESSOR COOLER:

#### E-210

MAKE: SUPER RADIATOR COILS  
CRN: OH6358.2  
CRN: OH0741.3



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QPS CERTIFIED: QC54937  
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## COMPONENTS CONTINUED

### COOLER FAN MOTOR:

**M-210**  
MAKE: EBM  
MODEL NO: W1G250-HH37-52  
24 VDC

### COMPRESSOR ASSEMBLY:

**CA-220**  
MAKE: COPELAND SCROLL  
MODEL NO: SZ022C3A-EDE-234  
INLET PRESS: 2" W.C. /MAX 10 PSIG  
DISCHARGE PRESS SETTING: 215 PSIG  
275VAC / 3 PH / 60 Hz  
PEAK OPERATING AMPS: 16.3  
SERIAL NO: 08G0A366K  
QPS CERTIFIED: QCC-98072

### COMPRESSOR:

**C-220**  
MAKE: COPELAND SCROLL  
MODEL NO: ZNH22C3A-KXX-265  
MAX DISCHARGE PRESS: 450 PSIA  
275VAC / 3 PH / 60 Hz  
PEAK OPERATING AMPS: 16.3  
RPM: 3600  
SERIAL NO: 08GA3206K

### COMPRESSOR OIL FILTER:

**F-220**  
MAKE: COPELAND SCROLL  
PART NO: 513-0019-01

### COMPRESSOR OIL SEPARATOR:

**V-220**  
MAKE: COPELAND SCROLL  
PART NO: 548-2116-00  
RATED PRESSURE: 250 PSIG



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QPS CERTIFIED: QC54937  
JOB # I-987  
UNIT # SAA-08247

## COMPONENTS CONTINUED

### COMPRESSOR COOLER:

#### **E-220**

MAKE: SUPER RADIATOR COILS  
CRN: OH6358.2  
CRN: OH0741.3

### COOLER FAN MOTOR:

#### **M-220**

MAKE: EBM  
MODEL NO: W1G250-HH37-52  
24 VDC

### INLET SEPARATOR:

#### **V-110**

MAKE: LO TECH MANUFACTURING  
YEAR BUILT: 2008  
MAWP: 600 PSI @ 650°F  
MDMT: -20°F @ 600 PSI  
CORROSION ALLOWANCE: .0625"  
CRN NO: OH5415.21345  
SERIAL NO: 8600.700

### PUMP:

#### **P-610**

MAKE: SANDPIPER  
MODEL NO: PCC1, GABTXNSX  
MWP: 100 PSI  
45 GPM @ 40 SCFM  
SERIAL NO: 1585072

### DISCHARGE SCRUBBER:

#### **V-120**

MAKE: LO TECH MANUFACTURING  
YEAR BUILT: 2008  
MAWP: 600 PSI @ 650°F  
MDMT: -20°F @ 600 PSI  
CORROSION ALLOWANCE: .0625"  
CRN NO: OH5415.21345  
SERIAL NO: 8600.702



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QPS CERTIFIED: QC54937  
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## COMPONENTS CONTINUED

### AIR COOLED EXCHANGER:

#### E-510

MAKE: GLOBAL HEAT TRANSFER  
MODEL: GHT-450 SC  
MAWP: 402 PSI @ 250°F  
CRN NO: OH7426.213  
SERIAL NO: 080504014

### COOLER FAN MOTOR:

#### D-510

MAKE: EBM  
MODEL NO: W1G250-HH37-52  
24 VDC  
QPS CERTIFIED: QCC-69052

### FILTERS:

#### F-810 / F-820

MAKE: FLAIR  
MAWP: 232 PSI @ 149°F  
FILTER MODEL NO: HF 90  
ELEMENT MODEL NO: HFD 90  
CRN NO: OH5142.51263  
C/W DIFFERENTIAL PRESSURE GAUGE

### RIGHT DRYING TOWER:

#### V-140

MAKE: LO TECH MANUFACTURING  
YEAR BUILT: 2008  
MAWP: 600 PSI @ 650°F  
MDMT: -20°F @ 600 PSI  
CORROSION ALLOWANCE: .0625"  
CRN NO: OH5415.21345  
SERIAL NO: 8600.691





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## COMPONENTS CONTINUED

### LEFT DRYING TOWER:

#### V-130

MAKE: LO TECH MANUFACTURING  
YEAR BUILT: 2008  
MAWP: 600 PSI @ 650°F  
MDMT: -20°F @ 600 PSI  
CORROSION ALLOWANCE: .0625"  
CRN NO: OH5415.21345  
SERIAL NO: 8600.695

### METER RUN:

#### FE-1401

MAKE: NUFLO  
PART NO: 40422-34221  
ASSEMBLY NO: 40422-0094  
CRN NO: OF1120.213  
SERIAL NO: XJ70398-09

### HEATER:

#### H-410

MAKE: CATA-DYNE  
MODEL NO: MKII 2424  
120 V START  
SERIAL NO: 374754

### PSV'S:

#### PSV-1101 PRESSURE SAFETY VALVE

MAKE: MERCER  
MODEL NO: 91-17D51V06E1  
CRN NO: OG8841.5C  
SCFM: 228  
SET PRESSURE: 100 PSI  
SERIAL NO: 406634

#### PSV-1201 PRESSURE SAFETY VALVE

MAKE: MERCER  
MODEL NO: 91-17D51V07E1  
CRN NO: OG8841.5C  
SCFM: 329  
SET PRESSURE: 150PSI  
SERIAL NO: 439214



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## COMPONENTS CONTINUED

### PSV-1401 PRESSURE SAFETY VALVE

MAKE: MERCER  
MODEL NO: 91-17D51V06E1  
CRN NO: OG8841.5C  
SCFM: 188  
SET PRESSURE: 80 PSI  
SERIAL NO: 413216

### PSV-2101 PRESSURE SAFETY VALVE

MAKE: MERCER  
MODEL NO: 91-17D51V07E1  
CRN NO: OG8841.5C  
SCFM: 329  
SET PRESSURE: 150PSI  
SERIAL NO: 439226

## CONTROL VALVES:

### LC-1101 LEVEL CONTROLLER

MAKE: MURPHY  
MODEL NO: L1200NDVO

### LCV-1201 LEVEL CONTROL VALVE

MAKE: WATSON McDANIEL  
MODEL NO: PMD 1810-400  
SERIES: WLD-1800  
MAWP: 600 PSIG @ 500°F  
CRN: OE3324.52

### PRV-1101 PRESSURE CONTROL VALVE

MAKE: FISHER  
MODEL NO: 289H-42  
SPRING RANGE: 4-15 PSI

### PCV-1201 PRESSURE CONTROL VALVE

MAKE: KIMRAY  
MODEL NO: 1.2 SGT OPR  
MAWP: 175 PSI / SPRING RANGE 2.5 PSI



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## COMPONENTS CONTINUED

### **BPCV-2101 BACK PRESSURE CONTROL VALVE**

MAKE: FISHER  
MODEL NO: 630R  
SPRING RANGE: 75-175 PSI  
MAX. INLET PRESSURE: 425 PSI  
MAX. CASING PRESSURE: 550 PSI

### **ACV-1401 AIR CONTROL VALVE FAIL OPEN**

MAKE: BURKERT  
NPT 1" PMED 232 PSI  
PILOT 29 -145 PSI  
PART NO: 454599

### **ACV-1301 AIR CONTROL VALVE FAIL CLOSE**

MAKE: BURKERT  
NPT 1" PMED 232 PSI  
PILOT 27 -145 PSI  
PART NO: 454637

### **ACV-1302 / ACV-1402 AIR CONTROL VALVE FAIL CLOSE**

MAKE: BURKERT  
NPT ½" PMED 232 PSI  
PILOT 39 -145 PSI  
PART NO: 454635

### **PCV-1301 PRESSURE CONTROL VALVE**

MAKE: FISHER  
MODEL: 67CFR-362SC  
SPRING RANGE: 0-35 PSI  
MAX SUPPLY: 250 PSI



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## COMPONENTS CONTINUED

### **BPCV-1401 BACK PRESSURE CONTROL VALVE**

MAKE: KIMRAY  
MODEL NO: 212 SGT-BP  
OPERATING PRESSURE: 125 PSI  
DESIGN PRESSURE: 175 PSI

### **PCV-1403 PRESSURE CONTROL VALVE**

MAKE: FISHER  
MODEL: 627-496 C/W ½" ORIFICE  
SPRING RANGE: 5-20 PSI

### **PCV-1402 PRESSURE CONTROL VALVE**

MAKE: FISHER 2"  
MODEL NO: 627-579 ½" ORIFICE  
SPRING RANGE: 70-150 PSI

### **PCV-2101 / PCV-2201 PRESSURE CONTROL VALVE**

MAKE: FISHER  
TYPE: 98 H  
MAX. INLET: 300 @ 180°F  
SPRING RANGE: 130-200 PSI

### **TCV-2101 / TCV-2201 TEMPERATURE CONTROL VALVE**

MAKE: ROSTRA VERNATHERM  
MODEL: 0250-08-00/200

### **PCV-4101 PRESSURE CONTROL VALVE**

MAKE: FISHER  
MODEL NO: 912N-109

### **PCV-4102 PRESSURE CONTROL VALVE**

MAKE: CCI THERMAL  
MODEL: RTZ-11-15B

### **TCV-4101 TEMPERATURE CONTROL VALVE**

MAKE: CCI THERMAL  
MODEL NO: AC-TC-8000N-7



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#### COMPONENTS CONTINUED

##### **ESDV-4101 100% SHUT OFF VALVE**

MAKE: CCI THERMAL  
MODEL NO: ASV-375  
MAX PRESSURE: ½ PSI

##### **UY-1101 PUMP ACTUATING SWITCH**

MAKE: AMOT CONTROLS  
TYPE: CG  
MODEL NO.: 4057D031H2

#### ELECTRICAL:

##### **LSH-1101 LEVEL SWITCH HIGH**

MAKE: MURPHY  
MODEL NO: L1200  
MAWP: 2000 PSI

##### **PT-1101 PRESSURE TRANSMITTER**

MAKE: WIKA  
MODEL NO: N-10  
RANGE: 0-15 PSI / 4-20 MA

##### **PT-1401 PRESSURE TRANSMITTER**

MAKE: WIKA  
MODEL NO: N-10  
RANGE: 0-200 PSI / 4-20 MA

##### **GY-1401 SOLENOID**

MAKE: ASCO  
MODEL NO: EF8320G202 24V  
MAWP: 115 PSI

##### **GY-1301 / GY-1302 SOLENOID**

MAKE: ASCO  
MODEL NO: EF8320G202 24V  
MAWP: 115 PSI



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## **COMPONENTS CONTINUED**

### **FT-1401 FLO TRANSMITTER**

MAKE: FISHER  
TYPE: FLOBOSS 103  
MODEL NO: 0205E2DABA1N00  
INPUT VOLT: 8-28 VDC  
POWER: 18-WATTS MAX  
TEMP. RANGE: -40 TO +75°C  
TYPE 4 ENCLOSURE  
SERIAL NO: 17960429

### **PSL-2101 / PSL-2201 PRESSURE SWITCH LOW SUCTION**

MAKE: CUSTOM CONTROL SENSORS  
MODEL NO: 675GE8001  
SET @ 2" WC FALLING

### **PSH-2101 / PSH-2201 PRESSURE SWITCH HIGH DISCHARGE**

MAKE: CUSTOM CONTROL SENSORS  
MODEL NO: 6900GE18  
SET @ 145 PSI RISING

### **TSH-2101 / TSH-2201 HIGH TEMPERATURE SHUT DOWN**

MAKE: CUSTOM CONTROL SENSORS  
MODEL NO: 6900TE16  
SET @ 240°F RISING

### **ESD-9101 OUTSIDE MOUNTED ESD BUTTON**

MAKE: ALLEN-BRADLEY  
CAT NO: 800T-FX6D4; 800T-XD2P  
C/W RED WEATHER HOOD



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## COMPONENTS CONTINUED

### PANEL ELECTRICAL:

#### SCROLL VFD PANEL

MAKE: PYRAMID CORPORATION  
MODEL: SCROLL COMPRESSOR-VFD  
DATE: 07/10/08  
CSA APPROVAL: LR29807  
AMPS: 20/5/30  
VOLTS: 480 VAC / 120 VAC / 24 VDC  
FREQ: 60 HZ  
PHASE: 1/3  
SERIAL NO: A131-9196

#### VFD CONTROLLERS

MAKE: CONTROL TECHNIQUES  
MODEL: COMMANDER SK  
MODEL NO: SK2402  
VFD 1 SERIAL NO: 2082205011  
VFD 2 SERIAL NO: 2082205010

#### PLC

MAKE: ALLEN-BRADLEY  
MODEL: MICRO LOGIX 1200  
CAT. NO.: 1762-IF20F2 AD1.2

#### POWER SUPPLY

MAKE: PHOENIX CONTACT  
MODEL: QUINT-PS-3X400-500AC/24DC/30  
PART NO: 120267.8  
ORDER NO: 2938633  
SERIAL NO: PSB5551261

#### TRANSFORMER

MAKE: SIEMENS  
CAT NO: MT0500A  
c/w 5A FUSE

#### THERMOSTAT

MAKE: HOFFMAN  
PART NO: 35347001



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## COMPONENTS CONTINUED

### HEATER

MAKE: DBK  
MODEL NO: FGC1031.2R  
CIRRUS 41F100AAE

### 480 VAC POWER SUPPLY INTERFACE

MAKE: FERRAZ SHAWMUT  
CAT NO: FSPDB3A

### 24V FUSIBLE LINKS

MAKE: FERRAZ SHAWMUT  
SERIES: ULTRA SAFE  
CAT NO.: USM1 Y213944

### PANEL COOLING FANS

MAKE: MECHATRONICS INC.  
MODEL: G1225E24B

### HMI PANEL

MAKE: PYRAMID CORPORATION  
MODEL: 24 VDC, 8 AMPS  
QPS CERTIFIED: QCC-98874

### OPERATOR CONTROL PANEL

MAKE: ALLEN-BRADLEY  
MODEL: PANEL VIEW 300 MICRO  
CAT. NO.: 2711-M3A18L1

### ESD BUTTON

MAKE: ALLEN BRADLEY  
CAT. NO.: 800T-FX6; 800T-XD2P

## PRESSURE GAUGES & TEMPERATURE INDICATORS:

### PI-1101 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-30 PSI / 0-205 KPA  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-1102 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-30 PSI / 0-205 KPA  
SIZE: 1/4" LM X 2 1/2" FACE





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## COMPONENTS CONTINUED

### PI-1201 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-160 PSI / 0-1100 KPA  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-1301 / PI-1401 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-160 PSI / 0-1100 KPA  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-1202 PRESSURE INDICATOR

MAKE: WIKA  
SCALE: -30" HG - 15 PSI  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-1402 PRESSURE INDICATOR

MAKE: KIMRAY  
SCALE: 0-160 PSI / 0-1100 KPA  
SIZE: 1/4" LM X 2" FACE

### PI-1405 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-30 PSI / 0-205 KPA  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-1404 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-160 PSI / 0-1100 KPA  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-1403 PRESSURE INDICATOR

MAKE: WIKA SS LF  
SCALE: 0-160 PSI / 0-1100 KPA  
SIZE: 1/4" LM X 2 1/2" FACE

### PI-2101 / PI-2201 PRESSURE INDICATOR

MAKE: SWAGELOK SS LF  
SCALE: 0-200 PSI / 0-13.5 BAR  
SIZE: 1/4" LM X 2 1/2" FACE



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#### COMPONENTS CONTINUED

##### **PI-2102 / PI-2202 PRESSURE INDICATOR**

MAKE: SWAGELOK SS LF  
SCALE: 0-200 PSI / 0-13.5 BAR  
SIZE: 1/4" LM X 2 1/2" FACE

##### **TI-1301 / TI-1401 TEMPERATURE INDICATOR**

MAKE: TREND (a Division of Wika)  
SCALE: -40 TO 160°F / -40 TO 70°C  
SIZE: 1/2" CBM X 3" FACE X 6" STEM

##### **TW-1301 / TW-1401 THERMOWELL**

MAKE: WIKA  
Size: 1" x 1/2" x 6" STEM x STD BORE  
Material: 316 SS

#### MISC:

##### **LG-1101 / LG-1201 LEVEL GAUGE**

MAKE: PENBERTHY  
MODEL NO: 1RL-4  
ASSEMBLY NO: 70003-000  
CRN NO: OF0990.9C

##### **GV-1101 & GV-1102 / GV-1201 & GV-1202 GAUGE VALVES**

MAKE: PENBERTHY  
MODEL NO: 330 J  
CRN NO: OF0990.9C

##### **SG-1301 / SG-1401 SIGHT GLASS**

MAKE: LUBE DEVICES INC.  
MODEL NO: LSP51-09



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## **COMPONENTS CONTINUED**

### **VALVES:**

2" FP SS BALL VALVE  
MAKE: MA STEWART  
MODEL: G-2  
2000-PSI WOG  
CRN: OC0374.123456789  
HEAT CODE: 0408, 1006

2" FP SWING CHECK VALVE  
MAKE: WHEATLEY  
1000-PSI WOG

1" FP SS BALL VALVE  
MAKE: MA STEWART  
MODEL: G-2  
2000-PSI WOG  
CRN: OC0374.123456789  
HEAT CODE: 0408

1" FP SWING CHECK VALVE  
MAKE: WHEATLEY  
1000-PSI WOG

1" FP INLINE SPRING CHECK VALVE  
MAKE: ZINGA  
MODEL: LRV-10-20

½" FP SS BALL VALVE  
MAKE: MA STEWART  
MODEL: G-2  
2000-PSI WOG  
CRN: OC0374.123456789  
HEAT CODE: 1007, 0108

½" SWING CHECK VALVE  
MAKE: WHEATLEY  
2160-PSI WOG



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### **COMPONENTS CONTINUED**

**½" F X F NEEDLE VALVE**  
**MAKE: ANDERSON GREENWOOD**  
**MODEL: H1VDC4Q-021263-005**  
**MAWP: 6000-PSI @ 200°F**  
**HEAT CODE: C675**

**¾" FP SS BALL VALVE**  
**MAKE: MA STEWART**  
**MODEL: G-2**  
**2000-PSI WOG**  
**CRN: OC0374.123456789**  
**HEAT CODE: 0906**

**¾" RP SS BALL VALVE**  
**MAKE: W & F**  
**MODEL: MH 27906**

**¼" F X F NEEDLE VALVE**  
**MAKE: ANDERSON GREENWOOD**  
**MODEL: H5RDC-2**  
**MAWP: 6000-PSI @ 200°F**

**¼" M X F NEEDLE VALVE**  
**MAKE: ANDERSON GREENWOOD**  
**MODEL: H5RDC-22**  
**MAWP: 6000-PSI @ 200°F**

**RO-1301**  
**UNION MOUNTED RESTRICTION ORIFICE**  
**½" OD x 1/16" BORE**



**HUSKY ENERGY**

**PO#: 8400005282 AFE: US-24523-CG**

**QPS CERTIFIED: QC54937**

**JOB # I-987**

**UNIT # SAA-08247**

**COMPONENTS CONTINUED**

STUDS: SA-193, B7M

SIZE: 1/2" X 2 1/2"

NUTS: SA-194, 2HM

SIZE: 1/2"

GASKETS: 316SS

SIZE: 1" 150# RF

TUBING: 1/2" X 0.035 WALL

HEAT CODE: 671-0516

3/8" X 0.035 WALL

HEAT CODE: 772-0872

**HUSKY ENERGY****PO#: 8400005282 AFE: US-24523-CG****QPS CERTIFIED: QC54937****JOB # I-987****UNIT # SAA-08247****FITTINGS:**

<b>DESCRIPTION:</b>	<b>GRADE:</b>	<b>HEAT NO:</b>
2" FS THRD UNION 3000	SA-105N	6EU
2" FS THRD 90° ELL 2000	SA-105N	HBZ
2" FS THRD TEE 2000	SA-105N	HPL
2" X 1" FS THRD RED TEE 3000	SA-105N	AVU, 2266
2" X 8" XS NIPPLE	SA-106B	V3A, 22877
2" X 7" XS NIPPLE	SA-106B	760659, 30605-137
2" X 6" XS NIPPLE	SA-106B	22877
2" X 5" XS NIPPLE	SA-106B	R4O
2" X 4 1/2" XS NIPPLE	SA-106B	539229
2" X 4" XS NIPPLE	SA-106B	22877
2" X 3 1/2" XS NIPPLE	SA-106B	QGO, 22877
2" X 3" XS NIPPLE	SA-106B	R4K, AI47
2" X 2 1/2" XS NIPPLE	SA-106B	28878
2" X 1 1/2" XS SWAGE TBE	SA234-WPB	B643
2" X 1" XS SWAGE TBE	SA234-WPB	72431
2" X 1/4" XS SWAGE TBE	SA234-WPB	72431
2" FS THRD PLUG	SA-105N	4KK
1 1/2" FS THRD 90° ELL 2000	SA-105N	HM3
1 1/2" X 4" XS NIPPLE	SA-106B	748674
1" 150# RF BLIND FLANGE	SA-105N	375A6, 9447
1" 150# RF THRD FLANGE	SA-105N	1419
1" FS THRD UNION 3000	SA-105N	LULB, UX6
1" FS THRD 90° ELL 2000	SA-105N	NDCL, NTBN, A34, DSL
1" FS THRD TEE 2000	SA-105N	HP5, TP5
1" X 1/2" FS THRD RED TEE 3000	SA-105N	2610
1" FS THRD CROSS 2000	SA-105N	HH8
1" X 8" XS NIPPLE	SA-106B	Y-0606596
1" X 7" XS NIPPLE	SA-106B	AI92, 88T
1" X 6" XS NIPPLE	SA-106B	88T, AI12
1" X 5 1/2" XS NIPPLE	SA-106B	YT4, 061075971
1" X 5" XS NIPPLE	SA-106B	538697
1" X 4 1/2" XS NIPPLE	SA-106B	538697



**HUSKY ENERGY**

**PO#: 8400005282 AFE: US-24523-CG**

**QPS CERTIFIED: QC54937**

**JOB # I-987**

**UNIT # SAA-08247**

**FITTINGS CONTINUED:**

<b>DESCRIPTION:</b>	<b>GRADE:</b>	<b>HEAT NO:</b>
1" X 4" XS NIPPLE	SA-106B	23651
1" X 3 1/2" XS NIPPLE	SA-106B	Z7J, 538697
1" X 3" XS NIPPLE	SA-106B	538697
1" X 2 1/2" XS NIPPLE	SA-106B	538697
1" X 2" XS NIPPLE	SA-106B	YT9, 53878
1" X 3/4" XS SWAGE TBE	SA234-WPB	71759
1" X 1/2" XS SWAGE TBE	SA234-WPB	71759
1" X 1/4" XS SWAGE TBE	SA234-WPB	71759
1" FS THRD PLUG	SA-105N	N59
3/4" FS THRD 90° ELL 2000	SA-105N	A64
3/4" X 4" XS NIPPLE	SA-106B	162829
3/4" X 2" XS NIPPLE	SA-106B	162829
3/4" FS THRD PLUG	SA-105N	2717
1/2" FS THRD UNION 3000	SA-105N	2627
1/2" FS THRD 90° ELL 2000	SA-105N	76A
1/2" FS THRD TEE 2000	SA-105N	TU9
1/2" X 8" XS NIPPLE	SA-106B	07300249-1
1/2" X 6" XS NIPPLE	SA-106B	163226
1/2" X 4 1/2" XS NIPPLE	SA-106B	55175
1/2" X 4" XS NIPPLE	SA-106B	71678
1/2" X 3 1/2" XS NIPPLE	SA-106B	163226
1/2" X 3" XS NIPPLE	SA-106B	54094
1/2" X 2 1/2" XS NIPPLE	SA-106B	54094
1/2" X 2" XS NIPPLE	SA-106B	YUO
1/2" X 1 1/2" XS NIPPLE	SA-106B	54094
1/2" X 3/8" XS SWAGE	SA234-WPB	72475
1/2" X 1/4" XS SWAGE	SA234-WPB	72475
1/2" FS THRD PLUG	SA-105N	2835



**HUSKY ENERGY**  
**PO#: 8400005282 AFE: US-24523-CG**  
**QPS CERTIFIED: QC54937**  
**JOB # I-987**  
**UNIT # SAA-08247**

**FITTINGS CONTINUED:**

<b>DESCRIPTION:</b>	<b>GRADE:</b>	<b>HEAT NO:</b>
3/8" FS THRD TEE 2000	SA-105N	2398
3/8" X 4" XS NIPPLE	SA-106B	Y03
3/8" X 1 1/2" XS NIPPLE	SA-106B	AH89, 95492
3/8" X 1/4" XS SWAGE TBE	SA234-WPB	72475
3/8" FS THRD PLUG	SA-105N	DBBB
1/4" FS THRD 90° ELL 2000	SA-105N	54A
1/4" FS THRD TEE 2000	SA-105N	TK3
1/4" FS THRD CROSS 2000	SA-105N	CRBN
1/4" X 5" XS NIPPLE	SA-106B	9YZ
1/4" X 3" XS NIPPLE	SA-106B	AI41
1/4" X 2" XS NIPPLE	SA-106B	VV7
1/4" X 1 1/2" XS NIPPLE	SA-106B	62841
1/4" FS THRD PLUG	SA-105N	2492

**PIPE:**

2" SCH 80 SMLS PIPE	SA-106B	2-DD, 2-DF, 2-DH
1 1/2" SCH 80 SMLS PIPE	SA-106B	1.5-Q
1" SCH 80 SMLS PIPE	SA-106B	1-LRA, 1-LT
1/2" SCH 80 SMLS PIPE	SA-106B	.5-Q





**HUSKY ENERGY**

**PO#: 8400005282 AFE: US-24523-CG**

**QPS CERTIFIED: QC54937**

**JOB # I-987**

**UNIT # SAA-08247**

## **MECHANICAL INFORMATION**

### **COMPRESSOR OIL**

COPELAND FUEL GAS BOOSTER OIL

CP-6006 SERIES

POLYALPHAOLEFIN

SYNTHETIC HYDROCARBON

SUPPLIED BY COPELAND SCROLL

### **DRYING TOWER MEDIA**

ALCOA INDUSTRIAL CHEMICALS

ACTIVATED ALUMINA (ALL GRADES) SOLID F-200

ALUMINUM OXIDE

SUPPLIED BY BRENNTAG STINNES LOGISTICS

P:\PC Compression\Drafting\Work-Internal\1-987 SAA-08247 SAA-222-LP Husky AB\A-PID-SAA08247 AB.dwg, 8/25/2008 10:51:24 AM, scotpc, Property of PC Compression Inc. Duplication or transmittal without written consent is pr

V-110  
INLET SCRUBBER  
Manufacturer: LO TECH MANUFACTURING  
Size: 8.625" x 4'-0" S/S  
MAWP: 600psi @ 650°F  
MDMT: -20°F @ 600psi  
CRN: OH5415.21345  
0.0625" C.A.  
I/C: SCRUBBER848  
S/N: 8600.700

H-410  
HEATER  
Manufacturer: CATA-DYNE  
Model: MKII 2424  
120V START  
I/C: MK2424-211111  
S/N: 374754

P-610  
LIQUID PUMP  
Manufacturer: SANDPIPER  
Model: PCC1, GABTXNSX  
MAWP: 100psi  
Capacity: 45gpm @ 40scfm  
I/C: G1FB1BTXNSX00  
S/N: 1585072

CP-910  
VFD PANEL  
Manufacturer: PYRAMID CORPORATION  
Model: SCROLL COMPRESSOR - VFD  
Volts: 480VAC/120VAC/24VDC  
Amps: 20/5/30  
1-3 PHASE 60Hz  
CSA: LR29807  
I/C: VFDSCROLL  
S/N: A131-9196  
c/w VFD-COMMANDER SK  
c/w PLC-MICRO LOGIX 1200

CP-911  
HMI PANEL  
Manufacturer: PYRAMID CORPORATION  
Volts: 24VDC  
Amps: 8  
I/C: HMISCROLL  
QPS Certified: QCC-98874  
c/w HMI-PANEL VIEW 300 MICRO

## BILL of MATERIAL

ITEM CODE	ITEM TAG	DESCRIPTION
9117D51V06E1-100	PSV-1101	MERCER, 91-17D51V06E1, 1"x1" NPT, SET @ 100psi
434B317	PT-1101	WIKA, N-10, S.R 0-15psi
289H-42	PRV-1101	FISHER, 1" NPT, 289H-42, S.R. 4-15psig
L1200NDVO	LC-1101	MURPHY, L1200 NDVO, MAWP: 2000psi
L1200	LSH-1101	MURPHY, L1200, MAWP: 2000psi
8212228	PI-1101	WIKA, SSIF, 1/4"LM x 2 1/2"FACE, 0-30psi
8212228	PI-1102	WIKA, SSIF, 1/4"LM x 2 1/2"FACE, 0-30psi
4057D031H2	UY-1101	AMOT, 4057D031H2, 3 WAY SWITCHING VALVE
70003-000	LG-1101	PENBERTHY, 1RL-4
64810-500	GV-1101	PENBERTHY, 330J GAUGE VALVE
64810-500	GV-1102	PENBERTHY, 330J GAUGE VALVE
AC-TC-8000N-7	TCV-4101	CCI THERMAL, AC-TC-8000N-7
RAC-R-912-108	PCV-4101	FISHER 912N-109
c/w H-410	PCV-4102	CCI THERMAL, RTZ-11-15B
c/w H-410	ESDV-4101	CCI THERMAL, ASV-375, 1/2 PSI
800T-FX6	ESD-9101	ESD BUTTON, 800T-FX6; 800T-XAP

### A-GENERAL NOTES:

- REFERENCE DRAWINGS:
    - PID-SAA08247-A-02
    - PID-SAA08247-A-03
    - PID-SAA08247-A-04
  - GA-SAA08247-B-01
  - GA-SAA08247-B-02
  - GA-SAA08247-B-03
  - GA-SAA08247-B-04
- SKD-SAA08247-D-01  
BLD-SAA08247-H-01

### B-DESIGN & MATERIAL NOTES:

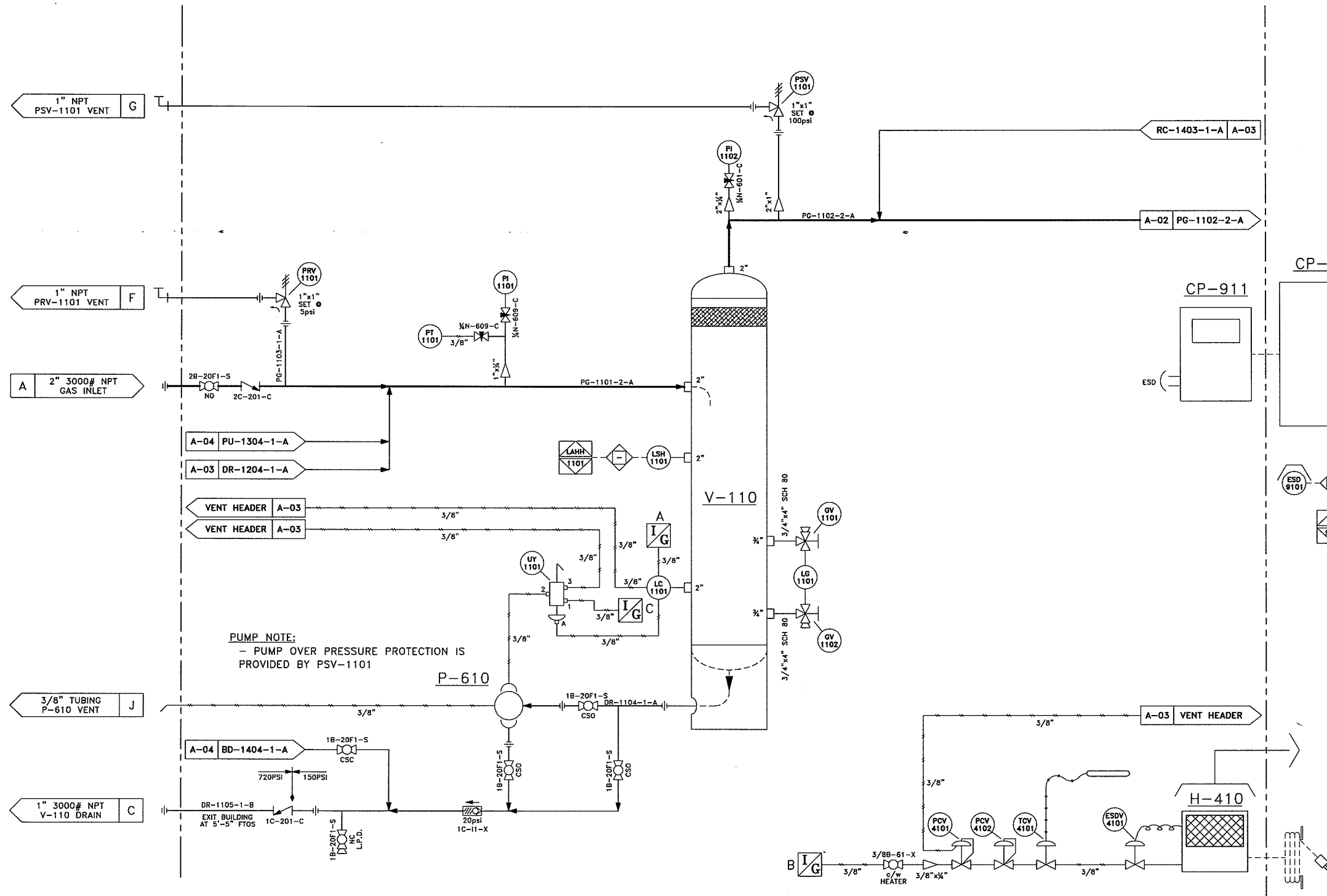
- PIPING CONSTRUCTED TO ASME B31.3-2006 NORMAL SERVICE
  - CORROSION ALLOWANCE: 0.0625" UNLESS NOTED OTHERWISE
  - SPEC 'A' PIPING:
    - DESIGN: MAWP: 150psig @ 350°F
    - MDMT: -20°F @ 150psig
    - LEAK TEST: 165psig @ AMBIENT TEMPERATURE w/ AIR/SOAP
- PIPE: NPT: 1/4" TO 3/8", SA-106-B, SCH.80 @ 0.055"C.A.  
NPT: 1/2" TO 2", SA-106-B, SCH.80
- FLANGES: 1", ANSI cl.150 RF, SA-105N
- FITTINGS: NPT: 1/4" TO 2", cl.2000, SA-105N
- STUDS: SA-193-B7M NUTS: SA-194-2HM
- A: 316SS, FLEXITALLIC, GRAPHITE FILL
- SPEC 'B' PIPING:
  - DESIGN: MAWP: 720psig @ 130°F
  - MDMT: -20°F @ 720psig
  - LEAK TEST: 1080psig @ AMBIENT TEMPERATURE w/ HYDROTEST
- PIPE: NPT: 1", SA-106-B, SCH.80
- FITTINGS: NPT: 1", cl.2000, SA-105N
- ALL SPECS: TUBING: 1/4", 3/8" & 1/2" 316SS, .035" WALL  
TUBING FITTINGS: 1/4", 3/8" & 1/2" 316SS

### C-INSULATION NOTES:

- SKID INSULATION: 2" FIRE RETARDANT POLYURETHANE FOAM PF-7217

### D-MISCELLANEOUS NOTES:

- SANDBLAST: SSPC-SP6  
FINISH: ONE COAT ENAMEL  
COLOUR: WARM GREY
- BUILDING COLOUR: GALVANIZED
- BUILDING "DOGGIE DOOR" MOUNTED IN DOOR



222 LP SAA-SCROLL SERIES SZ022C3A w/ DESICCANT TOWERS SKID MOUNTED, SWEET SERVICE				HUSKY ENERGY			
AS BUILT				SDC 08-25-08			
ISSUED FOR CONSTRUCTION				SDC 07-22-08 SDC GB			
DESCRIPTION				BY DATE CHKD/APPD			
REV.				BY DATE CHKD/APPD			
2308-8th Street Nisku Alberta T9E 7Z2				Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292			
Drawn by: S.D.C.				Date: 04-15-08			
Checked by: S.D.C.				Approved by: S.D.C.			
Scale: N.T.S.				Quote/Ref. NO.: -			
Job NO.: I-987				Unit NO.: SAA-08247			
Drawing NO.: PID-SAA08247-A-01				Rev.: 1			

P:\PC Compression\Drafting\Work-Internal\1-987 SAA-08247 SAA-222-LP Husky AB\A-PID-SAA08247 AB.dwg, 8/25/2008 10:51:34 AM, scottape, Property of PC Compression Inc. Duplication or transmittal without written consent is pr

CA-210/220  
COMPRESSOR ASSEMBLY

Manufacturer: COPELAND SCROLL  
Model: SZ022C3A-EDE-234  
Inlet Pressure: 2" W.C. / MAX 10psi  
Discharge Pressure Setting: 215PSI  
275VAC/3Phase/60Hz  
Peak Operating Amps: 16.3  
H.P.: 10  
I/C: SZ022C3A-EDS-234  
S/N CA-210: 08F0A301K  
S/N CA-220: 08G0A366K  
QPS CERTIFIED:  
CA-210: QCC-98048  
CA-220: QCC-98072

C-210/220  
COMPRESSOR

Manufacturer: COPELAND SCROLL  
Model: ZNH22C3A-KXX-265  
Discharge Pressure Setting: 450psi  
275VAC/3Phase/60Hz  
Peak Operating Amps: 16.3  
R.P.M.: 3600  
S/N CA-210: 08FA7549K  
S/N CA-220: 08GA3206K

F-210/220  
LUBE OIL FILTER

Manufacturer: COPELAND SCROLL  
Part No.: 513-0019-01

V-210/220  
LUBE OIL SEPERATOR

Manufacturer: COPELAND SCROLL  
Part No.: 548-2116-01  
Rated Pressure: 250psi

E-210/220  
COMPRESSOR COOLER

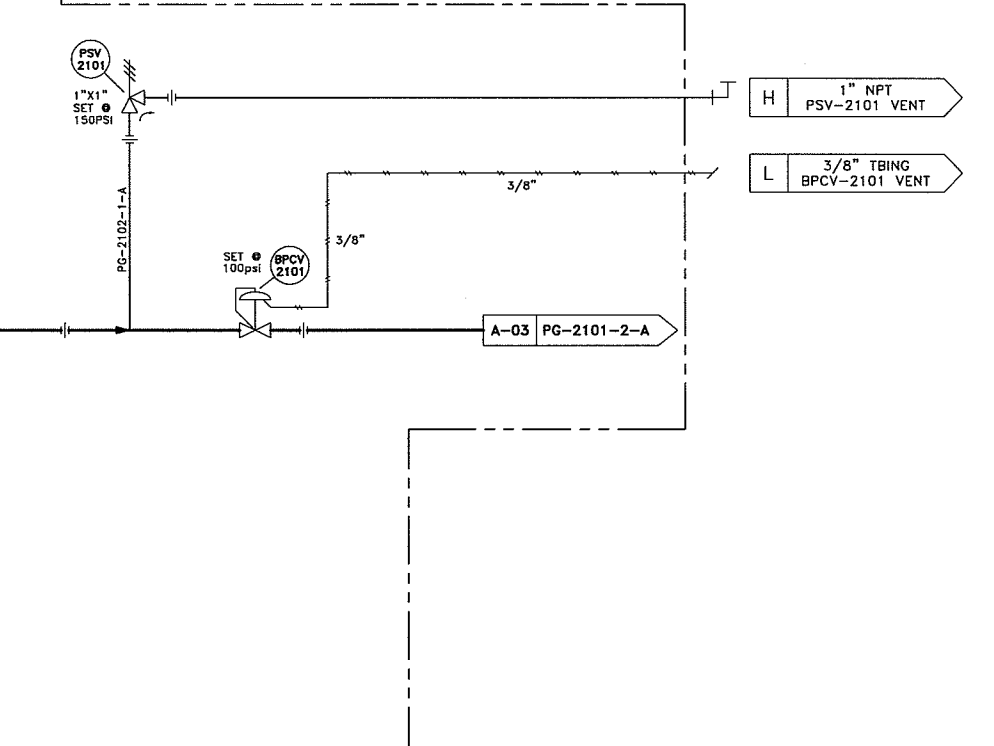
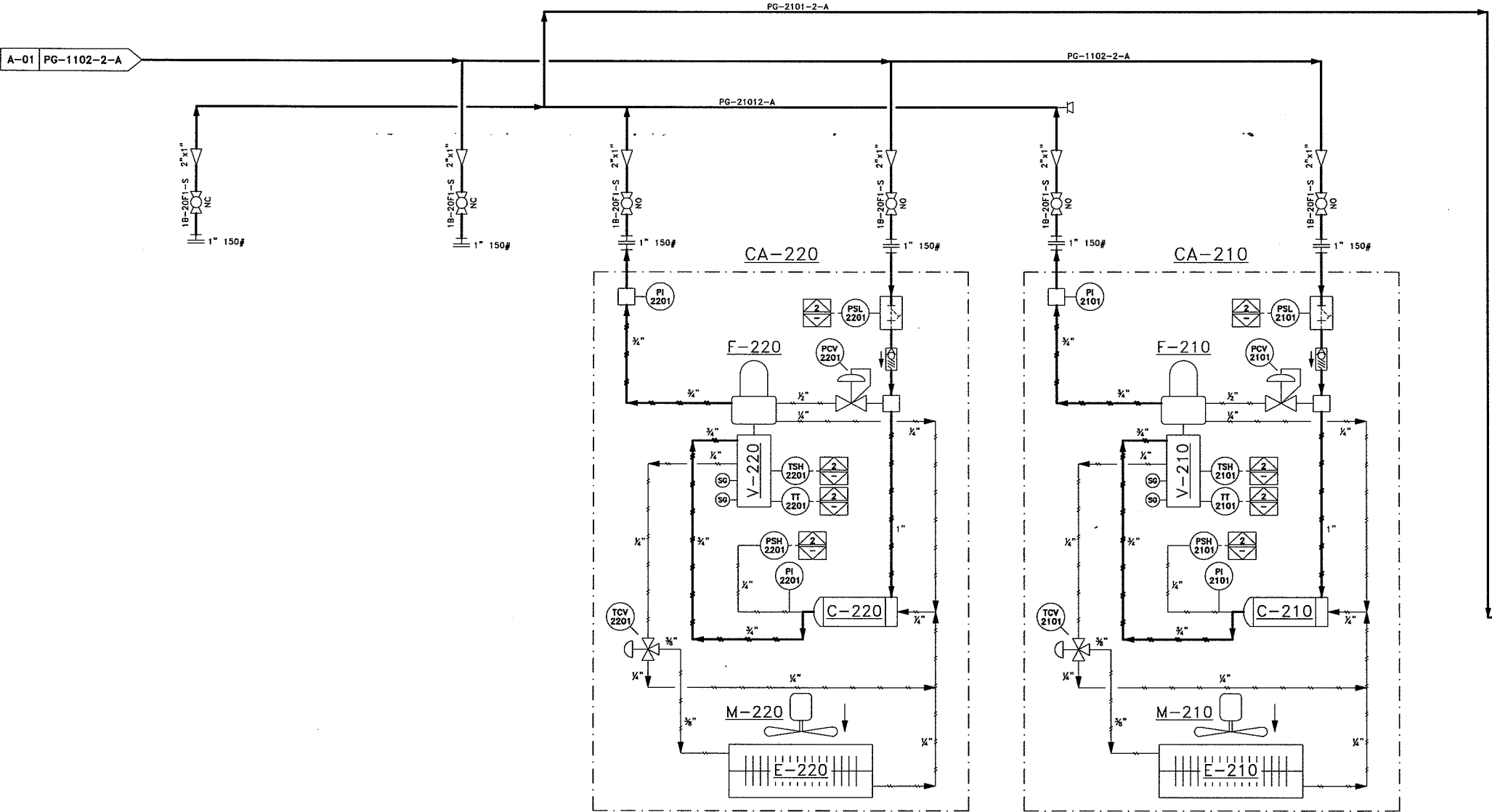
Manufacturer: SUPER RADIATOR COILS  
MAWP: 250psi @ 300°F  
MDMT: -20°F @ 250psi  
CRN: OH6358.2  
CRN: OH0741.3

M-210/220  
COOLER FAN MOTOR

Manufacturer: EBM  
Model: W1G250-HH37-52  
Class 1, Div. 2  
24VDC, 1/2Hp

BILL of MATERIAL

ITEM CODE	ITEM TAG	DESCRIPTION
9117D51V07E1-150	PSV-2101	MERCER, 91-17D51V07E1, 1"x1" NPT, SET @ 150psi
630R-17	BPCV-2101	FISHER, 630R, S.R. 75-175psig, 1/2" ORIFICE
98H	PCV-2101	FISHER, 98H-4, S.R. 130-200psi
c/w CA-210	TCV-2101	ROSTRA VERNATHERM, 0250-08-00/200
675GE8001	PSL-2101	LO SUCTION PRESSURE, CCS 675GE8001, SET @ 2"WC DECR.
6900GE18	PSH-2101	HI DISCHARGE PRESSURE, CCS 6900GE18, SET @ 145psi INCR.
6900TE16	TSH-2101	HI DISCHARGE TEMPERATURE, CCS 6900TE16, SET @ 240°F INCR.
c/w CA-210	TT-2101	TEMPERATURE THERMISTER
c/w CA-210	PI-2101	SWAGelok, 1/4"LM x 2 1/2"FACE, 0-200psi
c/w CA-210	PI-2102	SWAGelok, 1/4"LM x 2 1/2"FACE, 0-200psi
98H	PCV-2201	FISHER, 98H-4, S.R. 130-200psi
c/w CA-220	TCV-2201	ROSTRA VERNATHERM, 0250-08-00/200
675GE8001	PSL-2201	LO SUCTION PRESSURE, CCS 675GE8001, SET @ 2"WC DECR.
6900GE18	PSH-2201	HI DISCHARGE PRESSURE, CCS 6900GE18, SET @ 145psi INCR.
6900TE16	TSH-2201	HI DISCHARGE TEMPERATURE, CCS 6900TE16, SET @ 240°F INCR.
c/w CA-220	TT-2201	TEMPERATURE THERMISTER
c/w CA-220	PI-2201	SWAGelok, 1/4"LM x 2 1/2"FACE, 0-200psi
c/w CA-220	PI-2202	SWAGelok, 1/4"LM x 2 1/2"FACE, 0-200psi



GENERAL NOTES:  
SEE-DRAWING# PID-SAA08247-A-01

REV.	DESCRIPTION	BY	DATE	CHKD	APPD
1	AS BUILT	SDC	08-25-08		
0	ISSUED FOR CONSTRUCTION	SDC	07-22-08	SDC	GB



2308-8th Street  
Nisku Alberta  
T9E 7Z2  
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

Drawn by:  
S.D.C.  
Date:  
04-15-08  
Checked by:  
S.D.C.  
Approved by:  
S.D.C.  
Scale:  
N.T.S.

222 LP SAA-SCROLL SERIES  
SZ022C3A w/ DESICCANT TOWERS  
SKID MOUNTED, SWEET SERVICE

Company:  
HUSKY ENERGY  
Quote/Ref. NO.:  
-  
JOB NO.:  
I-987  
Unit NO.:  
SAA-08247  
Drawing NO.:  
PID-SAA08247-A-02  
Rev.:  
1

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V-120  
DISCHARGE SCRUBBER  
Manufacturer: LO TECH MANUFACTURING  
Size: 8.625" x 4'-0" S/S  
MAWP: 600psi @ 650°F  
MDMT: -20°F @ 600psi  
CRN: OH5415.21345  
0.0625" C.A.  
I/C: SCRUBBER848  
S/N: 8600.702

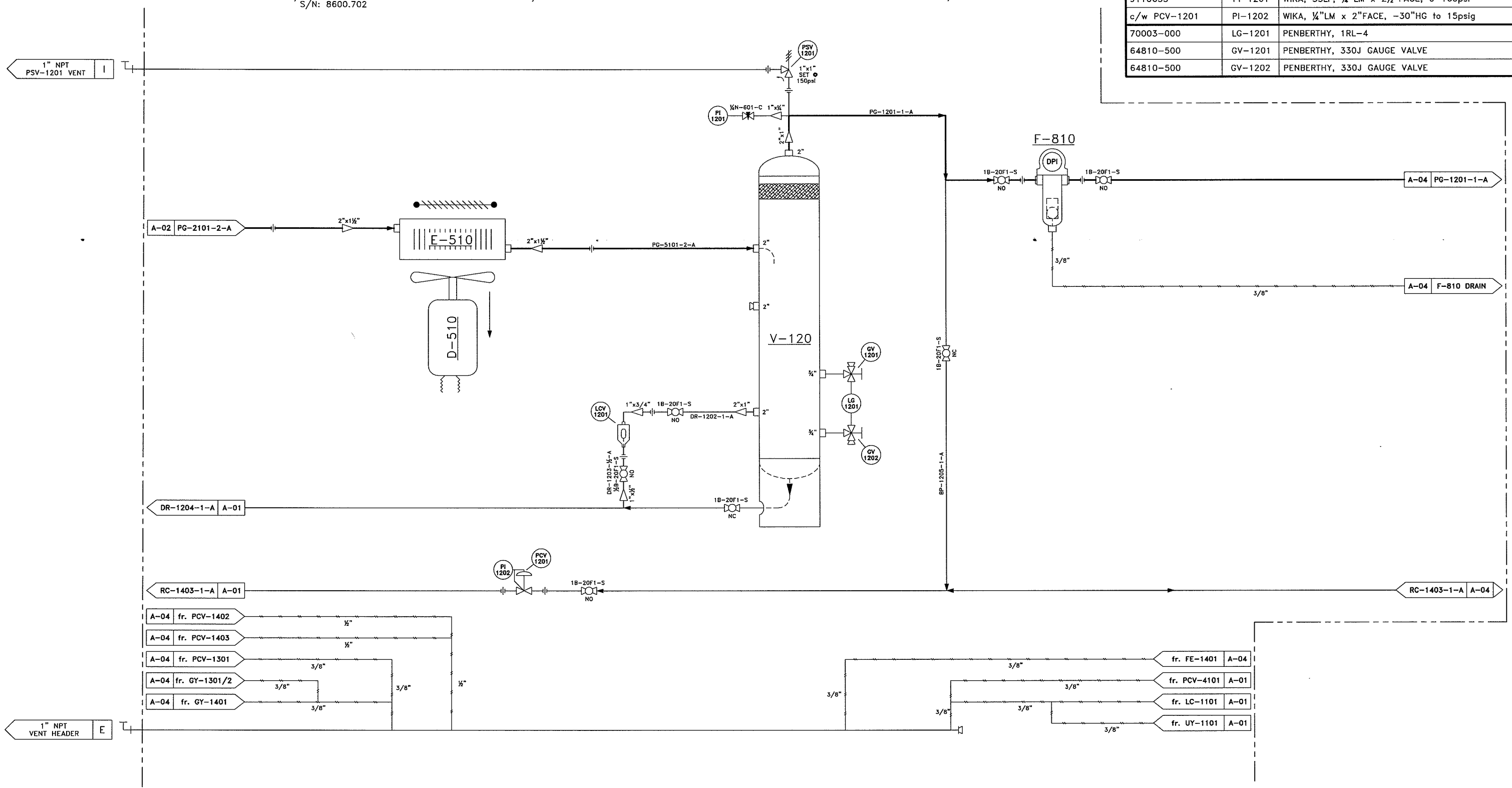
E-510  
AIR COOLED EXCHANGER  
Manufacturer: GLOBAL HEAT TRANSFER  
Model: GHT 450 SC  
Part No.: 699-0362  
MAWP: 402psi @ 250°F  
CRN: OH7426.213  
I/C: GHT450  
S/N: 080504014

D-510  
COOLER FAN MOTOR  
Manufacturer: EBM  
Model: W1G250-HH37-52  
Class 1, Div. 2  
24 VDC, 1/2Hp  
I/C: 550058100  
QPS Certified: QCC-69052

F-820  
FILTER  
Manufacturer: FLAIR  
Model: HF-90  
MAWP: 232psi @ 149°F  
Element: HFD-90  
CRN: OH5142.51263  
c/w DPI  
I/C: HF90

BILL of MATERIAL

ITEM CODE	ITEM TAG	DESCRIPTION
9117D51V07E1-150	PSV-1201	MERCER, 91-17D51V07E1, 1"x1" NPT, SET @ 150psi
AOP-25	PCV-1201	KIMRAY, 1" NPT, 1.2 SGT OPR, MAWP: 175psi, S.R. 2.5psi
WLD1811	LCV-1201	WATSON McDANIEL, PMD-1810-400, MAWP: 600psig @ 500°F
9110653	PI-1201	WIKA, SS LF, 1/4"LM x 2 1/2"FACE, 0-160psi
c/w PCV-1201	PI-1202	WIKA, 1/4"LM x 2"FACE, -30"HG to 15psig
70003-000	LG-1201	PENBERTHY, 1RL-4
64810-500	GV-1201	PENBERTHY, 330J GAUGE VALVE
64810-500	GV-1202	PENBERTHY, 330J GAUGE VALVE



GENERAL NOTES:  
SEE-DRAWING# PID-SAA08247-A-01

				2308-8th Street Nisku Alberta T9E 7Z2		Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292		Drawn by: S.D.C. Date: 04-15-08 Checked by: SPC Approved by: SPC		222 LP SAA-SCROLL SERIES SZ022C3A w/ DESICCANT TOWERS SKID MOUNTED, SWEET SERVICE									
Company:				HUSKY ENERGY				Quote/Ref. NO.:				JOB NO.:		Unit NO.:		Drawing NO.:		Rev.:	
1				AS BUILT				SDC 08-25-08				1-987		SAA-08247		PID-SAA08247-A-03		1	
0				ISSUED FOR CONSTRUCTION				SDC 07-22-08											
REV.				DESCRIPTION				BY DATE CHKD APPD											

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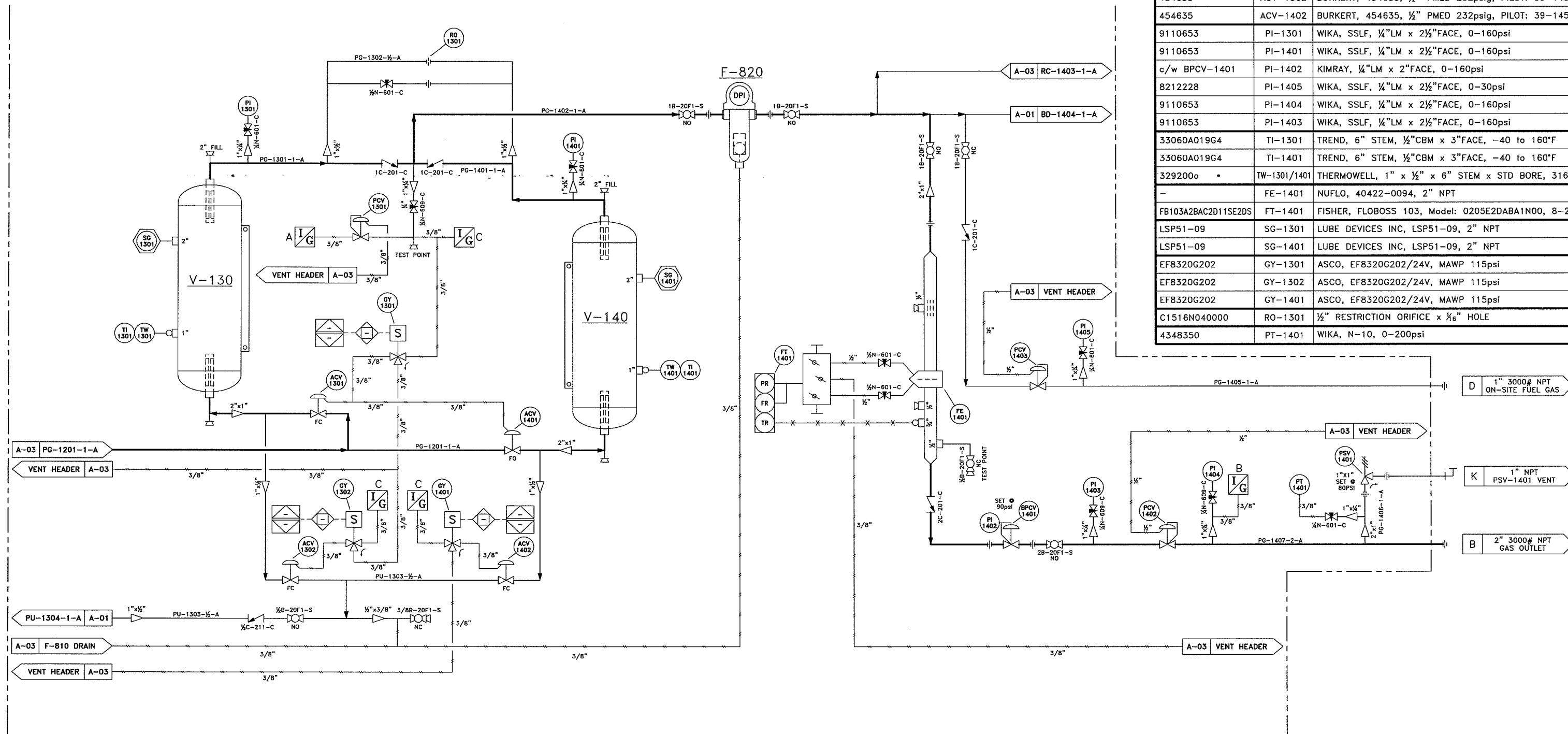
V-130  
DRYING TOWER  
Manufacturer: LO TECH MANUFACTURING  
Size: 8.625" x 4'-0" S/S  
MAWP: 600psi @ 650°F  
MDMT: -20°F @ 600psi  
CRN: OH5415.21345  
0.0625" C.A.  
I/C: BULLETA848  
S/N: 8600.695

V-140  
DRYING TOWER  
Manufacturer: LO TECH MANUFACTURING  
Size: 8.625" x 4'-0" S/S  
MAWP: 600psi @ 650°F  
MDMT: -20°F @ 600psi  
CRN: OH5415.21345  
0.0625" C.A.  
I/C: BULLETA848  
S/N: 8600.691

F-820  
FILTER  
Manufacturer: FLAIR  
Model: HF-90  
MAWP: 232psi @ 149°F  
Element: HFD-90  
CRN: OH5142.51263  
c/w DPI  
I/C: HF90

## BILL of MATERIAL

ITEM CODE	ITEM TAG	DESCRIPTION
9117051V06E1-80	PSV-1401	MERCER, 91-17051V06E1, 1"x1" NPT, SET @ 80psi
67CFR362SPEC	PCV-1301	FISHER, 67CFR-362SC, 1/4" NPT, S.R. 0-35psi
AAA	BPCV-1401	KIMRAY, 2" NPT, 212 SGT-BP, MAWP: 175psi
627-579	PCV-1402	FISHER, 2" NPT, 627-579, S.R. 70-150psig, 1/2" ORIFICE
627-496	PCV-1403	FISHER, 1" NPT, 627-496, S.R. 5-20psig, 1/2" ORIFICE
454637	ACV-1301	BURKERT, 454637, 1" PMED 232psi, PILOT: 27-145psi
454599	ACV-1401	BURKERT, 454599, 1" PMED 232psi, PILOT: 29-145psi
454635	ACV-1302	BURKERT, 454635, 1/2" PMED 232psig, PILOT: 39-145psi
454635	ACV-1402	BURKERT, 454635, 1/2" PMED 232psig, PILOT: 39-145psi
9110653	PI-1301	WIKA, SSLF, 1/4"LM x 2 1/2"FACE, 0-160psi
9110653	PI-1401	WIKA, SSLF, 1/4"LM x 2 1/2"FACE, 0-160psi
c/w BPCV-1401	PI-1402	KIMRAY, 1/4"LM x 2"FACE, 0-160psi
8212228	PI-1405	WIKA, SSLF, 1/4"LM x 2 1/2"FACE, 0-30psi
9110653	PI-1404	WIKA, SSLF, 1/4"LM x 2 1/2"FACE, 0-160psi
9110653	PI-1403	WIKA, SSLF, 1/4"LM x 2 1/2"FACE, 0-160psi
33060A019G4	TI-1301	TREND, 6" STEM, 1/2"CBM x 3"FACE, -40 to 160°F
33060A019G4	TI-1401	TREND, 6" STEM, 1/2"CBM x 3"FACE, -40 to 160°F
3292000	TW-1301/1401	THERMOWELL, 1" x 1/2" x 6" STEM x STD BORE, 316SS
-	FE-1401	NUFLO, 40422-0094, 2" NPT
FB103A2BAC2D11SE2DS	FT-1401	FISHER, FLOBOSS 103, Model: 0205E2DABA1N00, 8-28VDC
LSP51-09	SG-1301	LUBE DEVICES INC, LSP51-09, 2" NPT
LSP51-09	SG-1401	LUBE DEVICES INC, LSP51-09, 2" NPT
EF8320G202	GY-1301	ASCO, EF8320G202/24V, MAWP 115psi
EF8320G202	GY-1302	ASCO, EF8320G202/24V, MAWP 115psi
EF8320G202	GY-1401	ASCO, EF8320G202/24V, MAWP 115psi
C1516N040000	RO-1301	1/2" RESTRICTION ORIFICE x 1/8" HOLE
4348350	PT-1401	WIKA, N-10, 0-200psi



GENERAL NOTES:  
SEE-DRAWING# PID-SAA08247-A-01

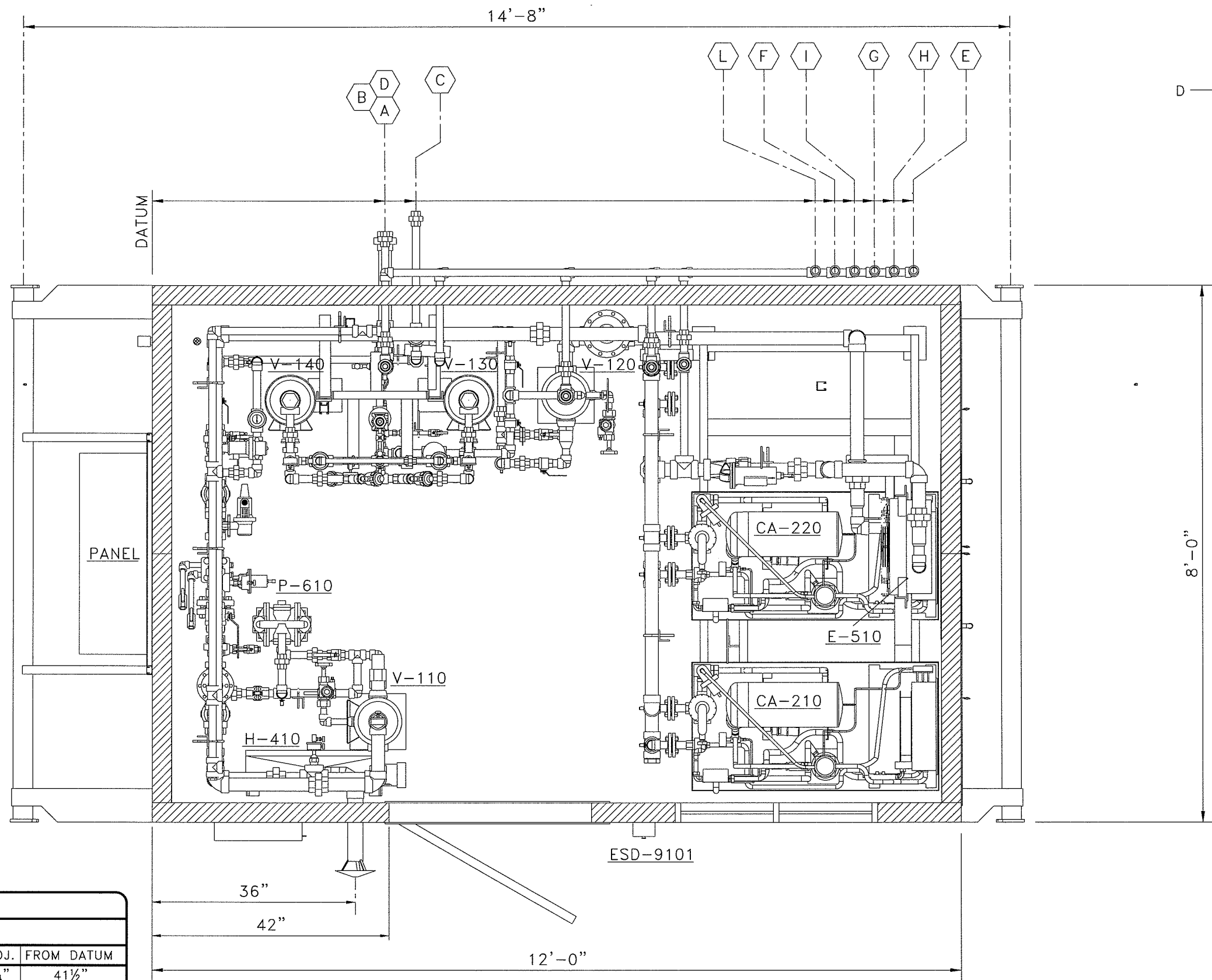
REV.	DESCRIPTION	BY	DATE	CHKD	APPRO
1	AS BUILT		08-25-08		
0	ISSUED FOR CONSTRUCTION		07-22-08		



2308-8th Street  
Nisku Alberta  
T9E 7Z2  
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

Drawn by: S.D.C.	Date: 04-15-08	Checked by: S.D.C.	Approved by: S.D.C.	Company: HUSKY ENERGY
Quote/Ref. NO.:	JOB NO.:	Unit NO.:	Drawing NO.:	Rev.:
-	I-987	SAA-08247	PID-SAA08247-A-04	1

P:\PC Compression\Drafting\Work-Internal\1-987 SAA-08247 SAA-222-LP Husky AB\B-GA-SAA08247 AB.dwg, 8/25/2008 11:21:50 AM, scaltapc, Property of PC Compression Inc. Duplication or transmittal without written consent is prohibited.



PACKAGE WEIGHT: 9,200 lbs / 4,175 Kg

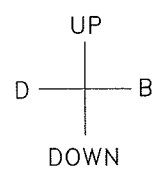
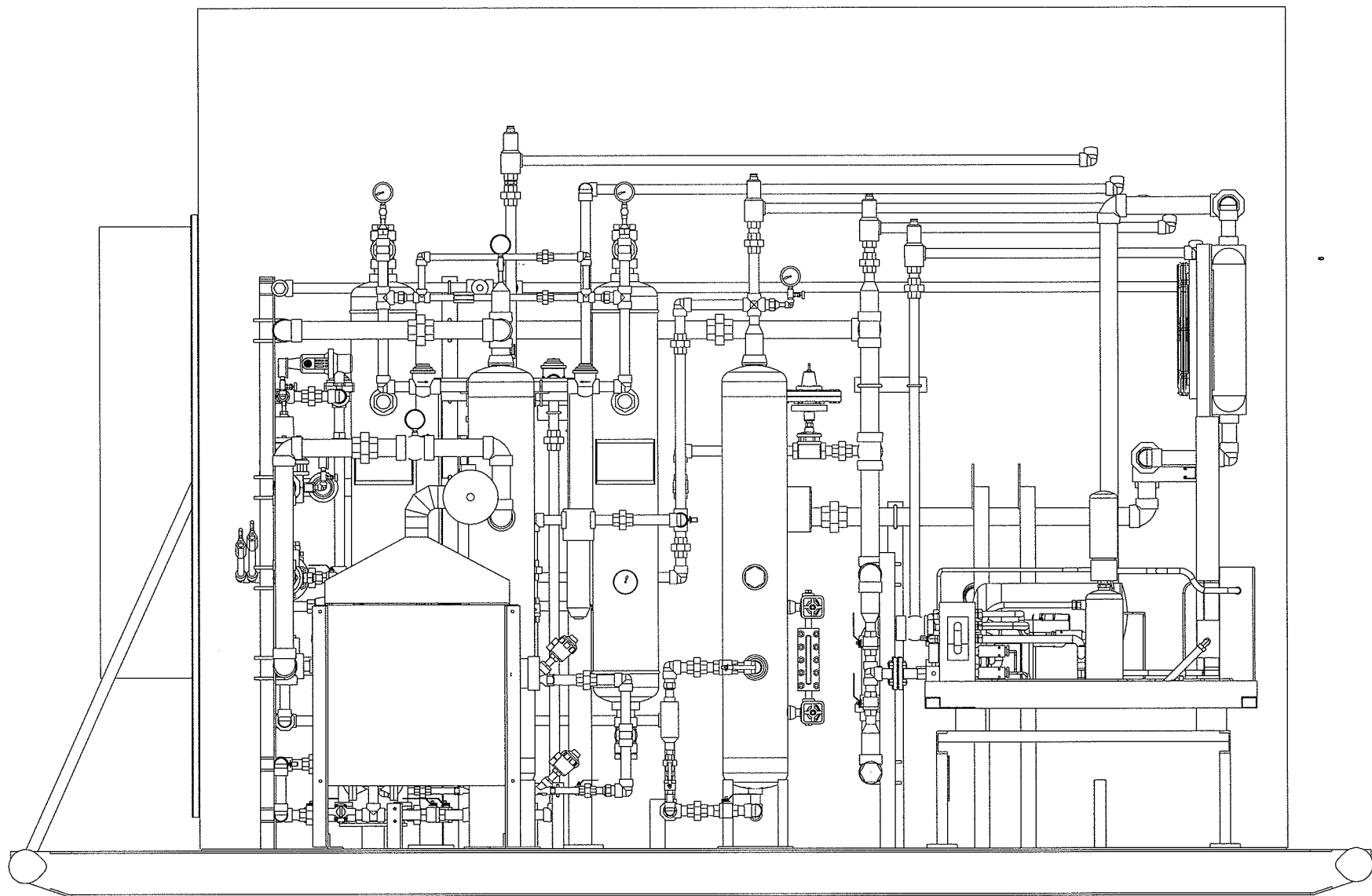
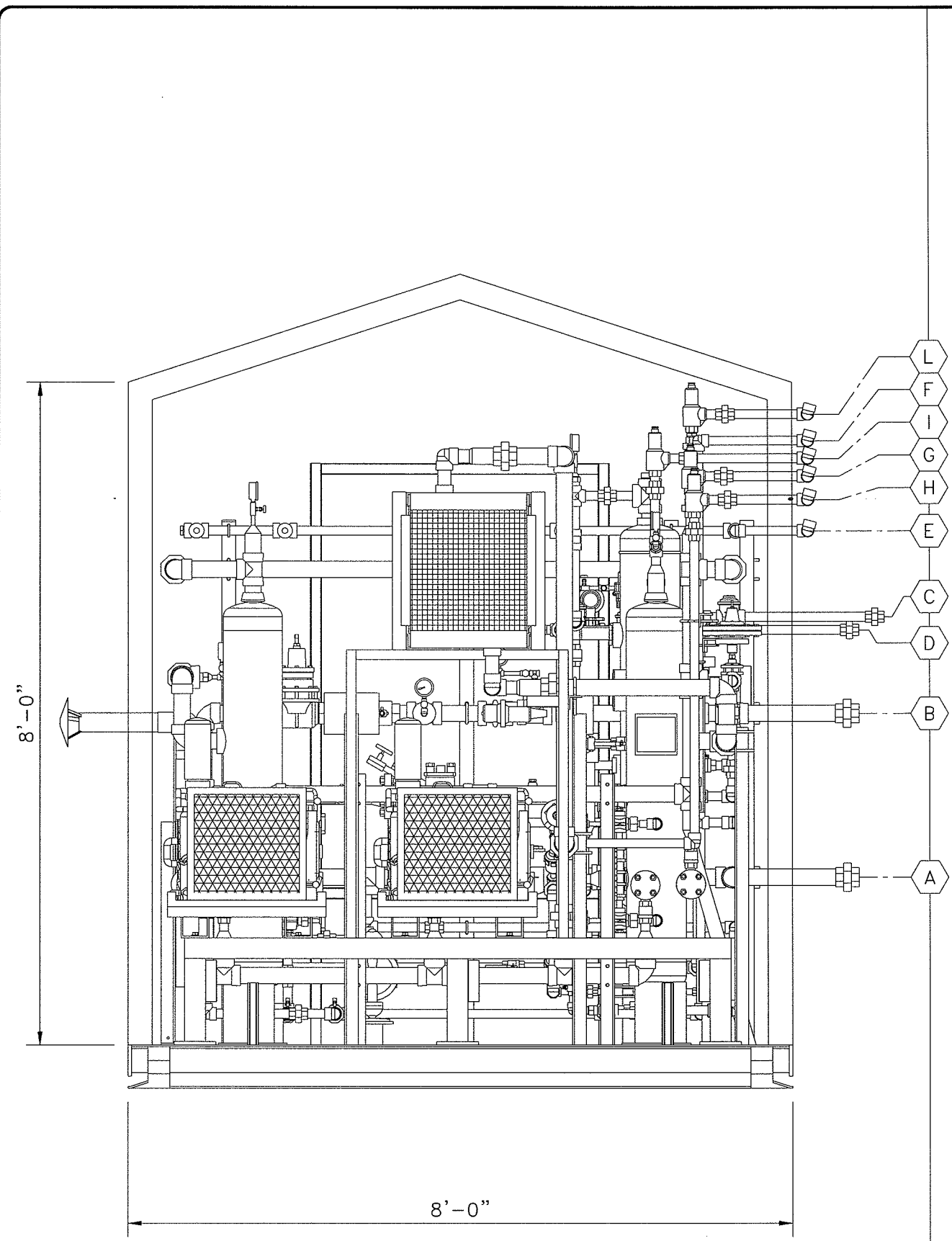
CUSTOMER CONNECTIONS

ITEM	DESCRIPTION	SIZE	ELEVATION	PROJ.	FROM DATUM
A	GAS INLET	2" 3000# NPT	30 <sup>3</sup> / <sub>4</sub> " FBOS	9 <sup>3</sup> / <sub>4</sub> "	41 <sup>1</sup> / <sub>2</sub> "
B	GAS OUTLET	2" 3000# NPT	54 <sup>3</sup> / <sub>4</sub> " FBOS	9 <sup>3</sup> / <sub>4</sub> "	41 <sup>3</sup> / <sub>8</sub> "
C	VESSEL DRAIN LINE	1" 3000# NPT	69 <sup>3</sup> / <sub>4</sub> " FBOS	9 <sup>3</sup> / <sub>4</sub> "	46 <sup>1</sup> / <sub>2</sub> "
D	ON-SITE FUEL GAS	1" 3000# NPT	66 <sup>7</sup> / <sub>8</sub> " FBOS	8 <sup>1</sup> / <sub>4</sub> "	41 <sup>1</sup> / <sub>2</sub> "
E	INSTR. VENT HEADER	1" 2000# NPT	80 <sup>3</sup> / <sub>4</sub> " FBOS	2 <sup>1</sup> / <sub>4</sub> "	128 <sup>7</sup> / <sub>8</sub> "
F	PRV-1101 VENT	1" 2000# NPT	94 <sup>1</sup> / <sub>4</sub> " FBOS	2 <sup>1</sup> / <sub>4</sub> "	120 <sup>1</sup> / <sub>2</sub> "
G	PSV-1101 VENT	1" 2000# NPT	88 <sup>1</sup> / <sub>4</sub> " FBOS	2 <sup>1</sup> / <sub>4</sub> "	124 <sup>1</sup> / <sub>2</sub> "
H	PSV-2101 VENT	1" 2000# NPT	85 <sup>1</sup> / <sub>4</sub> " FBOS	2 <sup>1</sup> / <sub>4</sub> "	126 <sup>1</sup> / <sub>4</sub> "
I	PSV-1201 VENT	1" 3000# NPT	91 <sup>1</sup> / <sub>4</sub> " FBOS	2 <sup>1</sup> / <sub>4</sub> "	122 <sup>3</sup> / <sub>8</sub> "
L	PSV-1401 VENT	1" 3000# NPT	97 <sup>5</sup> / <sub>8</sub> " FBOS	2 <sup>1</sup> / <sub>4</sub> "	118"


PLAN VIEW  
SCALE 1:20

				2308-81st Street Nisku, Alberta T9E 7Z2		Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292	
AS BUILT				SDC 08-25-08		Drawn by: S.D.C.	
ISSUED FOR CONSTRUCTION				SDC 07-22-08 SDC BH		Date: 05-01-07	
DESCRIPTION				BY DATE CHKD/APPD		Checked by: SDC	
REV.						Approved by: SDC	
						Company: HUSKY ENERGY	
						Quote/Ref. NO.:	
						JOB NO.:	
						Unit NO.:	
						Drawing NO.:	
						Rev.:	

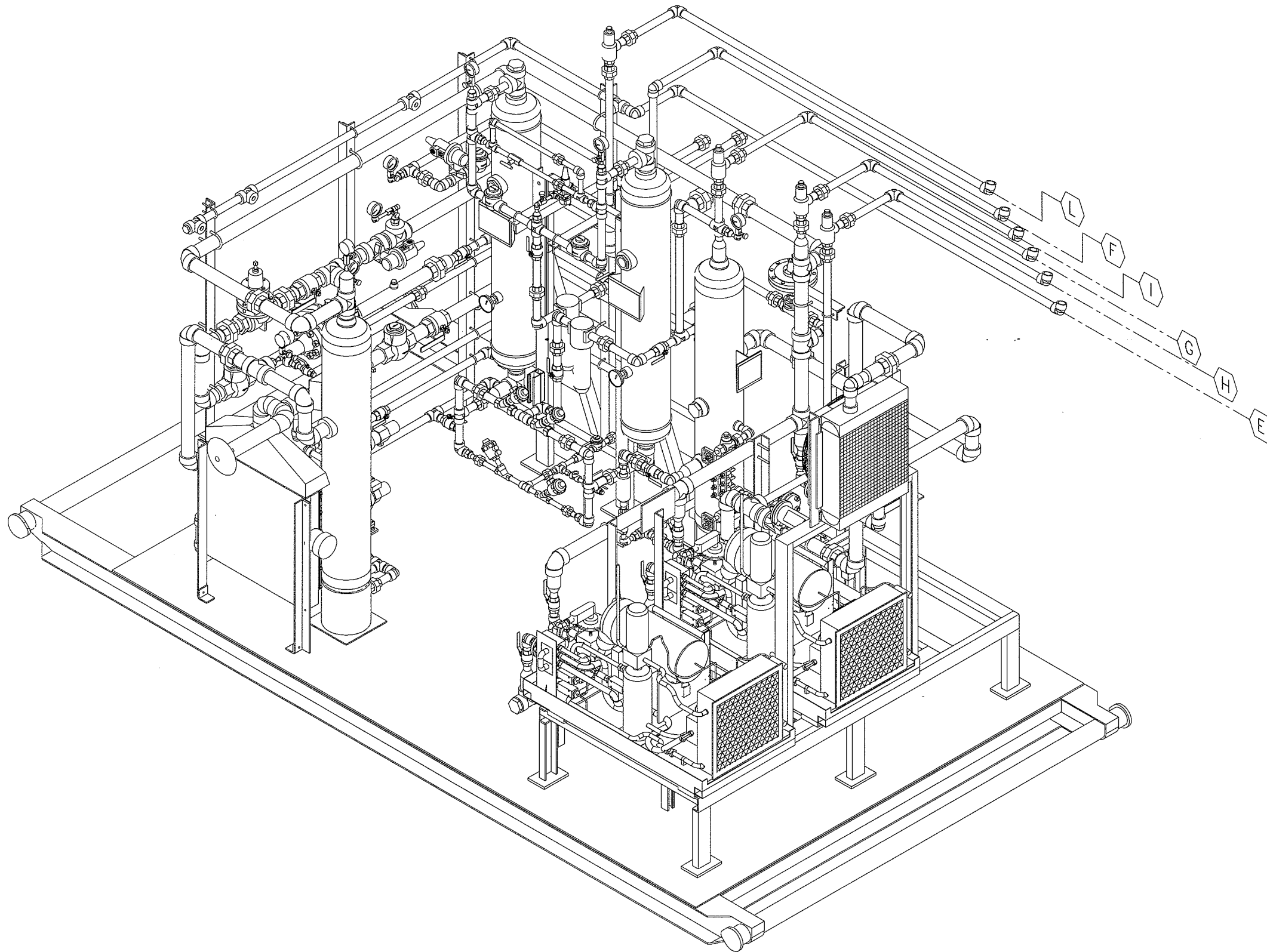
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'C' ELEVATION VIEW  
SCALE 1:20

				2308-8th Street Nisku, Alberta T9E 7Z2		Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292		Drawn by: S.D.C. Date: 05-01-07 Checked by: S.D.C. Approved by: S.D.C.		Company: HUSKY ENERGY							
1 AS BUILT				SDC 08-25-08				Quote/Ref. NO.:		JOB NO.:		Unit NO.:		Drawing NO.:		Rev.:	
0 ISSUED FOR CONSTRUCTION				SDC 07-22-08		SDC BH		1-987		SAA-08247		GA-SAA08247-B-02		1			
REV. DESCRIPTION				BY		DATE		CHKD		APPD							

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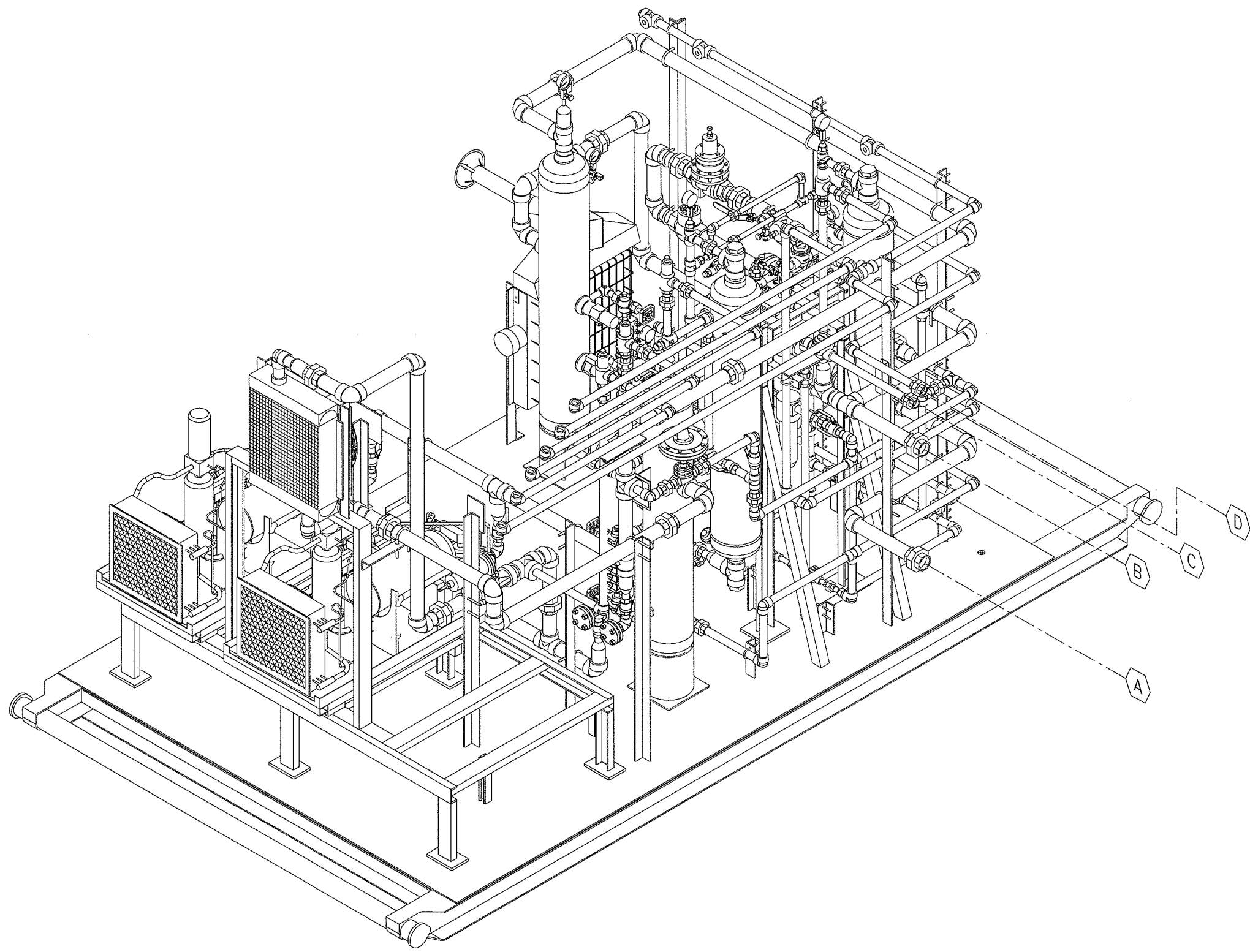
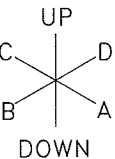
'SE' ISOMETRIC VIEW  
SCALE 1:20

<div><div>2308-8th Street Nisku, Alberta T9E 7Z2</div><div>Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292</div></div>				Drawn by: S.D.C.		222 LP SAA-SCROLL SERIES SZ022C3A w/ 8" DRYING TOWERS SKID MOUNTED, SWEET SERVICE			
Date: 05-01-07				Checked by: <i>SDC</i>		Company: HUSKY ENERGY			
Approved by: <i>SDC</i>				Quote/Ref. NO.:		JOB NO.:	Unit NO.:	Drawing NO.:	Rev.:
1:20				1-987		SAA-08247	GA-SAA08247-B-03	1	


REV.	DESCRIPTION	BY	DATE	CHKD	APPD
1	AS BUILT	SDC	08-25-08		
0	ISSUED FOR CONSTRUCTION	SDC	07-22-08	SDC	BH



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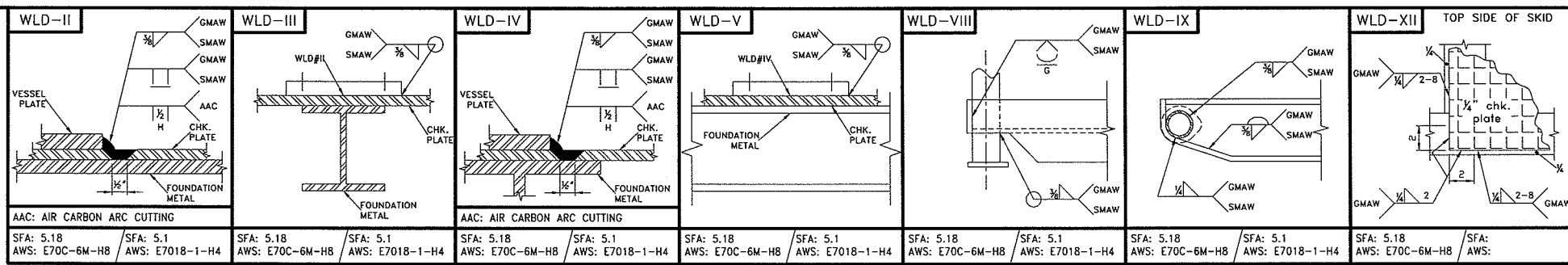


'NE' ISOMETRIC VIEW  
SCALE 1:20

<div><div>2308-8th Street Nisku Alberta T9E 7Z2</div><div>Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292</div></div>				<div>Drawn by: S.D.C. Date: 05-01-07 Checked by: <i>SDC</i> Approved by: <i>SDC</i></div>		<div>222 LP SAA-SCROLL SERIES SZ022C3A w/ 8" DRYING TOWERS SKID MOUNTED, SWEET SERVICE</div>							
<div>1 AS BUILT 0 ISSUED FOR CONSTRUCTION</div>		<div>SDC 08-25-08 SDC 07-22-08 SDC BH</div>		<div>Quote/Ref. NO.: 1-987</div>		<div>Company: HUSKY ENERGY</div>		<div>Unit NO.: SAA-08247</div>		<div>Drawing NO.: GA-SAA08247-B-04</div>		<div>Rev.: 1</div>	
REV. DESCRIPTION		BY DATE CHKD APPD		Scale: 1:20									

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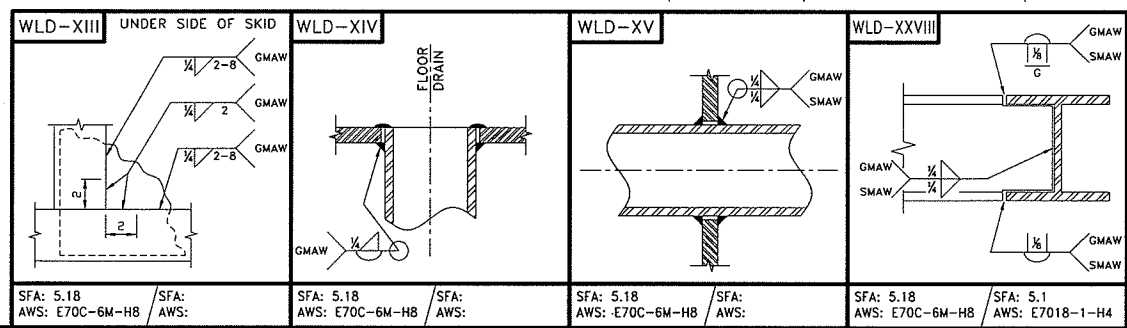
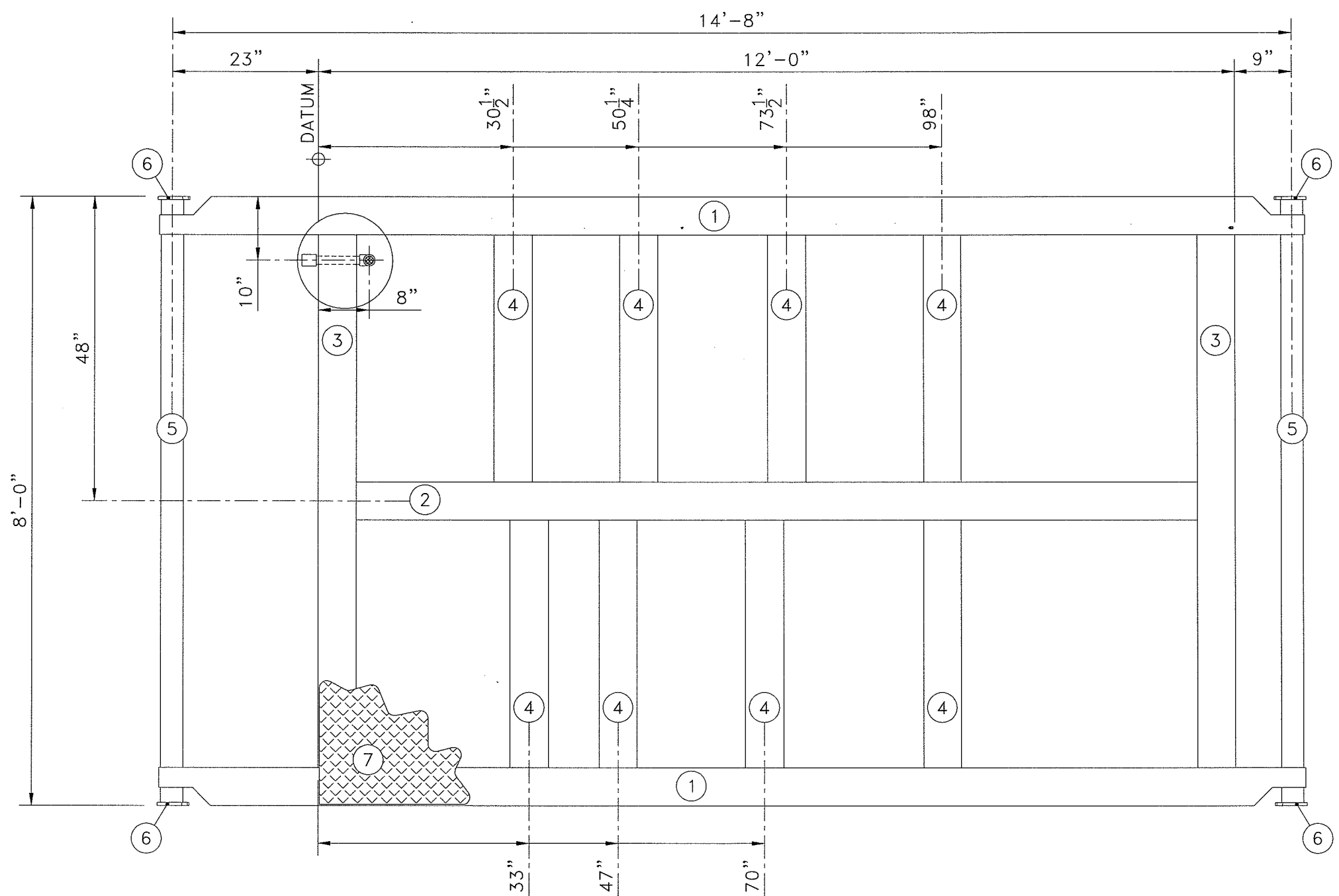
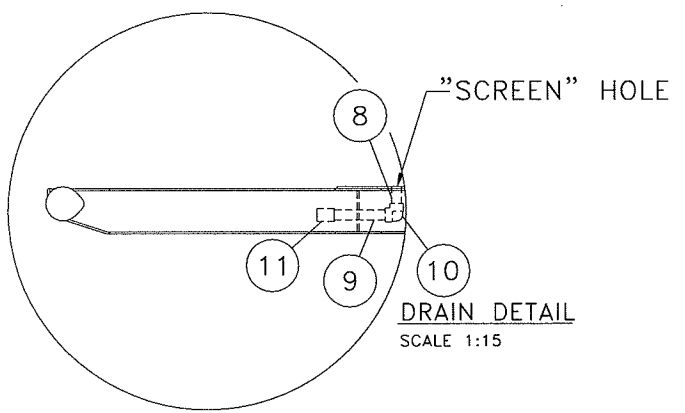
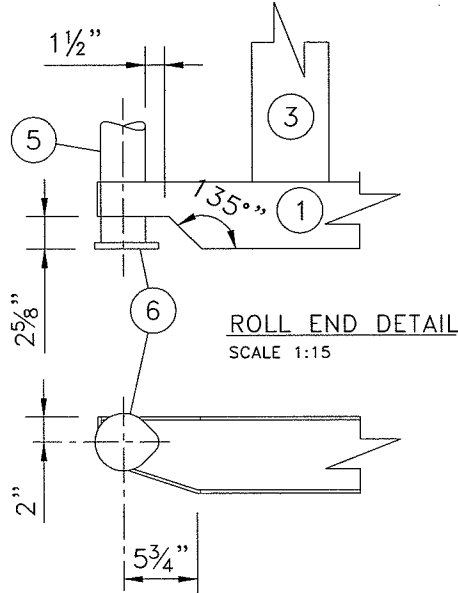
A  
D — B  
C



BILL of MATERIAL

ITEM CODE	MARK	Q'TY	DESCRIPTION	MATERIAL	WEIGHT
463081018	1	2	W6x15# x 15'-7"lg (SEE ROLL END DETAILS)	A36/44W	465 lbs
463081018	2	1	W6x15# x 11'-5 1/2"lg	A36/44W	172 lbs
463081018	3	2	W6x15# x 7'-5 1/2"lg	A36/44W	225 lbs
463081018	4	8	W6x15# x 3'-8 1/2"lg	A36/44W	444 lbs
462001043	5	2	3" SCH 80 SMLS PIPE x 7'-11"lg	SA-106B	162 lbs
463850144	6	4	1/2" thk. ROLL END CAPS	SA-36	10 lbs
463001110	7	96sq'	1/4" CHECKPLATE (7'-11 1/2"x11'-11 1/2")	SA-36	1,080 lbs
462101191	8	1	1" SCH 80 NIPPLE x 3"lg (TOE)	SA-106B	0.5 lbs
462101204	9	1	1" SCH 80 NIPPLE x 8"lg (TBE)	SA-106B	1.4 lbs
462501006	10	1	1" 2000# NPT ELBOW	SA-105	1.1 lbs
462501262	11	1	1" 2000# NPT FULL COLLAR	SA-105	0.4 lbs
TOTAL					2,561 lbs

WELDERS NOTE:  
- 1/8" HAS BEEN TAKEN OFF OF CUT LENGTHS FOR WELD GAP PURPOSES



SKID LAYOUT  
SCALE 1:20

1  
0  
REV.

AS BUILT  
ISSUED FOR CONSTRUCTION  
DESCRIPTION

SDC 08-25-08  
FL 10-23-06  
BY DATE CHKD/APPD

2308-8th Street  
Nisku Alberta  
T9E 7Z2

Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

Drawn by: M.E.W.  
Date: 04-06-04  
Checked by: SDC  
Approved by: SDC

Scale: 1:20

Quote/Ref. NO.:  
Job NO.: 1-987  
Unit NO.: SAA-08247  
Drawing NO.: SKD-SAA08247-D-01  
Rev.: 1

222 LP SAA-SCROLL SERIES  
SZ022C3A w/ DESICCANT TOWERS  
SKID MOUNTED, SWEET SERVICE

HUSKY ENERGY

## SHUTDOWN KEY

## INPUT DEVICES

VALVE  
NORMAL

## OUTPUT DEVICES

## TAG

[illegible]

## LEGEND

S	SHUTDOWN
R	RUN
TD	TIME DELAY (120 SEC.)
A	ALARM
SB	STANDBY
CS	CONTROL SPEED

COMMENT  
CALLOUT ALARM

1	AS BUILT	SDC	08-25-08	
REV.	DESCRIPTION	BY	DATE	CHKD/APPD



2308-8th Street  
Nisku Alberta  
T9E 7Z2

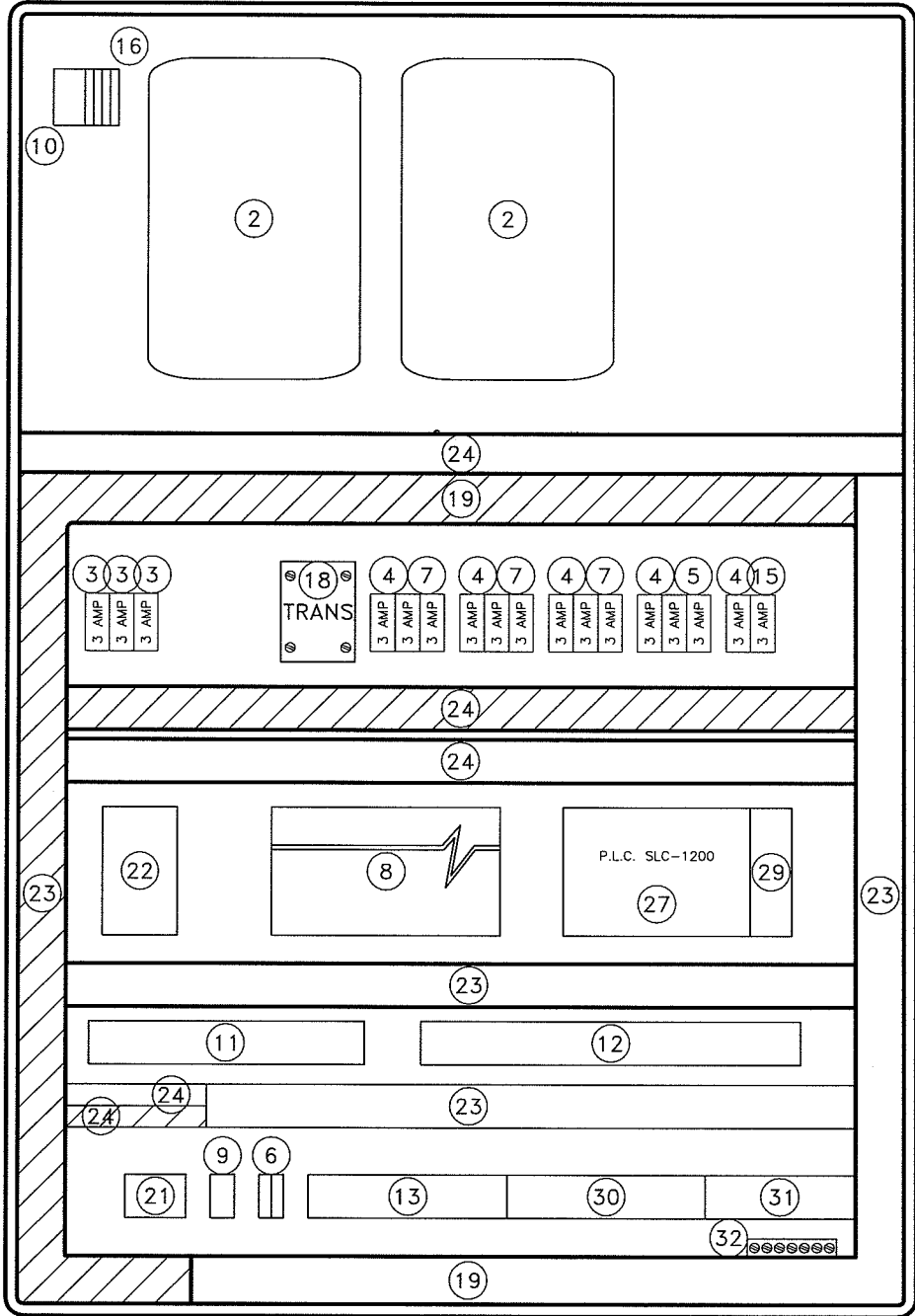
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

Drawn by:	M.E.W.
Date:	05-21-04
Checked by:	<i>SPC</i>
Approved by:	<i>SPC</i>
Scale:	N.T.S.

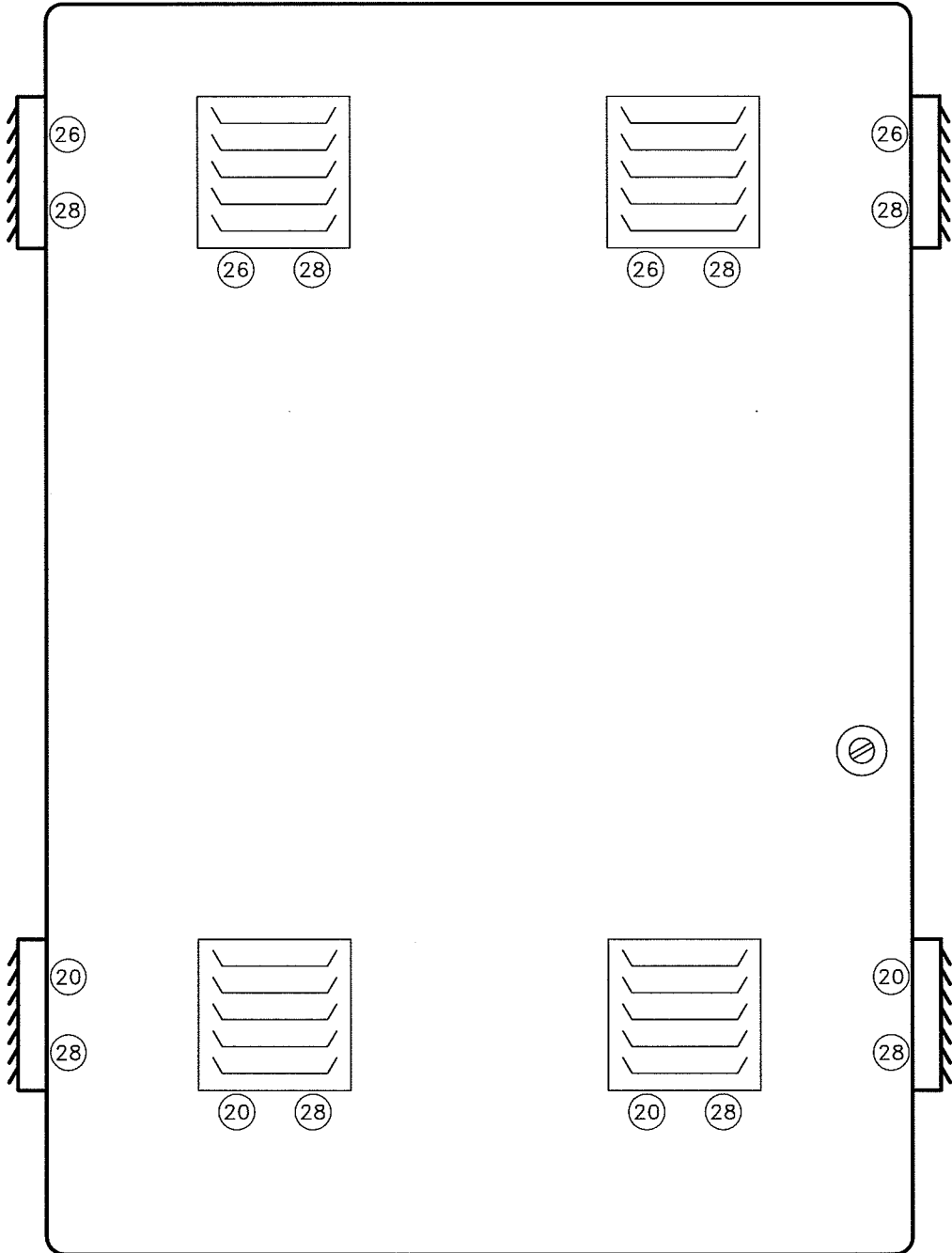
222 LP SAA-SCROLL SERIES  
SZ022C3A w/ DESICCANT TOWERS  
SKID MOUNTED, SWEET SERVICE

Company: HUSKY ENERGY				
Quote/Ref. NO.:	JOB NO.:	Unit NO.:	Drawing NO.:	Rev.:
—	I-987	SAA-08247	SDK-SAA08247-E-01	1

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VIEW INSIDE PANEL



BILL of MATERIAL		
MARK	Q'TY	DESCRIPTION
1	1	Hoffman C-SD 6036 12 Enclosure
2	2	V.F.D. Commander SK
3	3	Power Lugs Ferraz FSPDB 3A
4	6	Fuse Blocks Ferraz USM2
5	9	Fuse ATQR 2
6	1	120 VAC Power Term.
7	9	Fuse ATQR 20
8	1	Power Supply Phoenix Quint 30A
9	1	A-TEMNC Heating T-Stat
10	1	A-TEMNO Cooling T-Stat
11	1	24 VDC Power Term.
12	1	Discreet I/P Term.
13	1	Discreet O/P Term.
14		
15	4	Fuse ATM-1
16	4	WDU-4
17	-	
18	1	MT0500A Transformer
19	-	40 * 100 Wire Duct
20	4	A-FLT44 Filter
21	9	Weidmuller WDU 6 Motor Terminals
22	1	100 Watt Heater
23	-	60 x 100 Wire Duct
24	-	25 x 60 Wire Duct
25	-	
26	4	Cooling Fan 24 VDC
27	1	1762-L40-BXB 1200 PLC
28	8	A-VK44 Vented Louver
29	1	1762-IF20F2 Analog Card
30	1	Analog I/P & O/P Term.
31	1	Flow Boss / PT-1401 Terminals
32	1	Ground Strip



2308-8th Street  
Nisku Alberta  
T9E 7Z2  
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

PC JOB NO.:  
I-987  
PC Unit NO.:  
SAA-08247



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				V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE			
				PANEL LAYOUT COMMANDER SK			
DWG NO.	1	08-25-08	AS BUILT	PCCI	DRAWN	B.T.M.	CHECKED
REFERENCE DRAWINGS				BY	APPD	DATE	REV
						July 27/2005	01

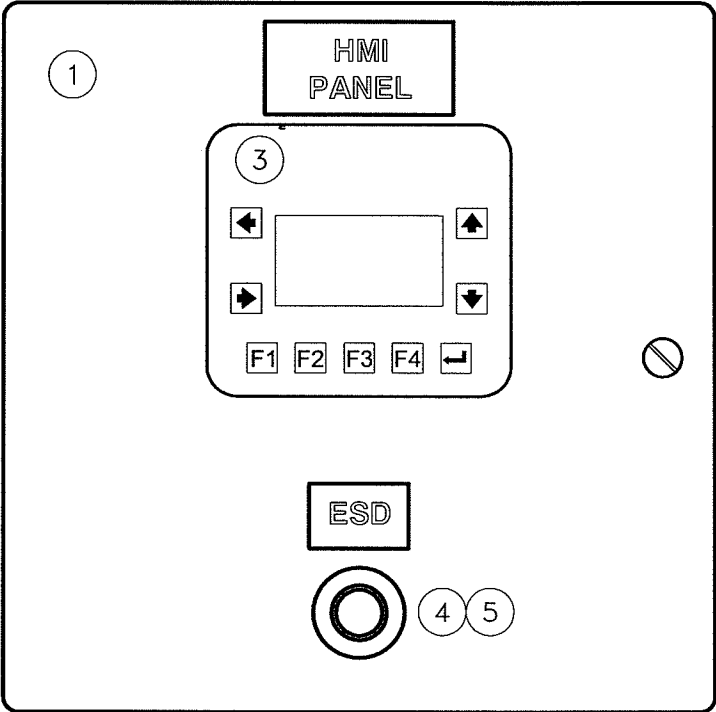
V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE

PANEL LAYOUT COMMANDER SK

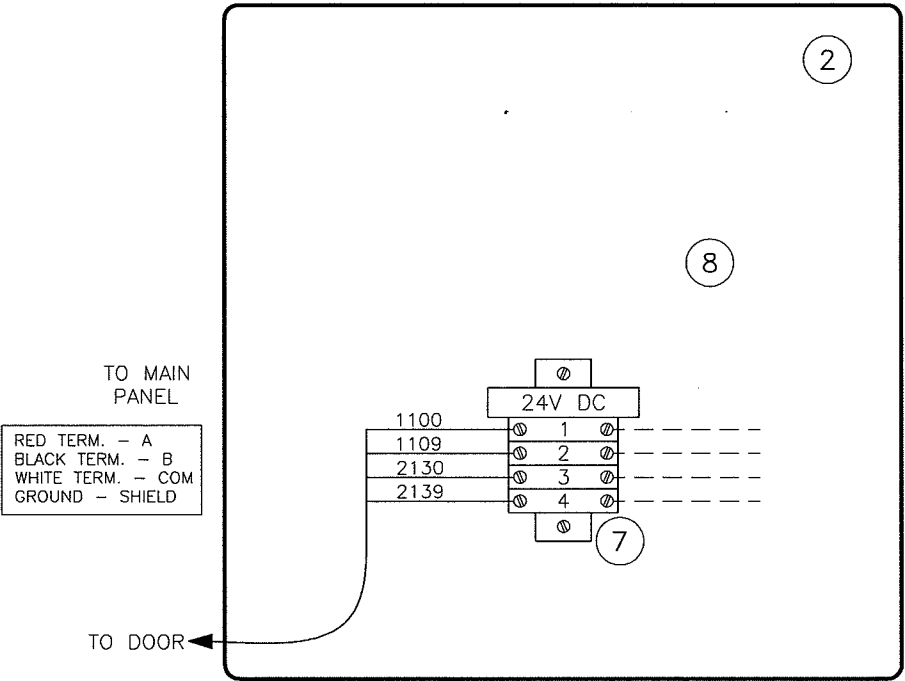
SCALE  
DRAWING NO. PC072705-00-0001  
REV. 01

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BILL of MATERIAL		
MARK	Q'TY	DESCRIPTION
1	1	Hoffman C-SD-12 126LG
2	1	Hoffman C-P 12 12
3	1	Allen Bradley 300 Micro 2711-M3A 18L1
4	1	800T-FX6D4
5	1	800T-XD2P
6	1	1761-CBI-HM 10 Allen Bradley Calbe
7	4	WD-4 Terminal



FRONT OF DOOR



INSIDE PANEL



2308-8th Street  
Nisku Alberta  
T9E 7Z2  
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

PC JOB NO.:  
I-987  
PC Unit NO.:  
SAA-08247

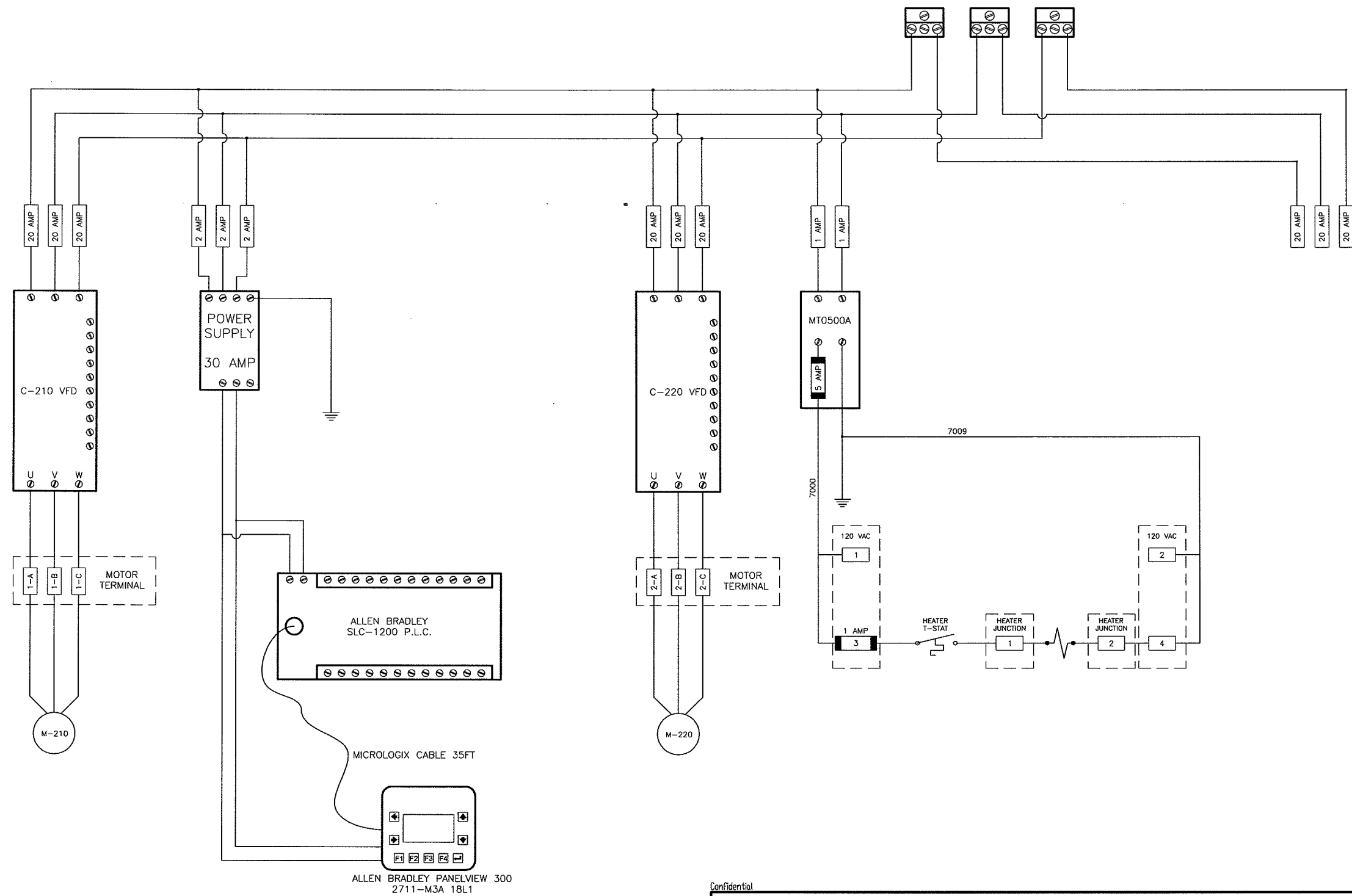


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				V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE			
				HMI PANEL LAYOUT			
DWG NO.	1	08-25-08	AS BUILT	PCCI	DRAWN	B.T.M.	CHECKED
REFERENCE DRAWINGS	REV.	DATE	DESCRIPTION	BY	APPD	DATE	Job #
						July 27/2005	
				SCALE			
				DRAWING NO.			
				PC072705-00-0002			
				REV.			
				01			

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				V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE			
				POWER FLOW DRAWING			
DWGNO.	1	08-25-08	AS BUILT	PCCL	DRAWN	B.T.M.	CHECKED
REFERENCE DRAWINGS	REV.	DATE	DESCRIPTION	BY	APPRD	DATE	REV.
						July 27/2005	Job #-



2308-8th Street  
Nisku Alberta  
T9E 7Z2

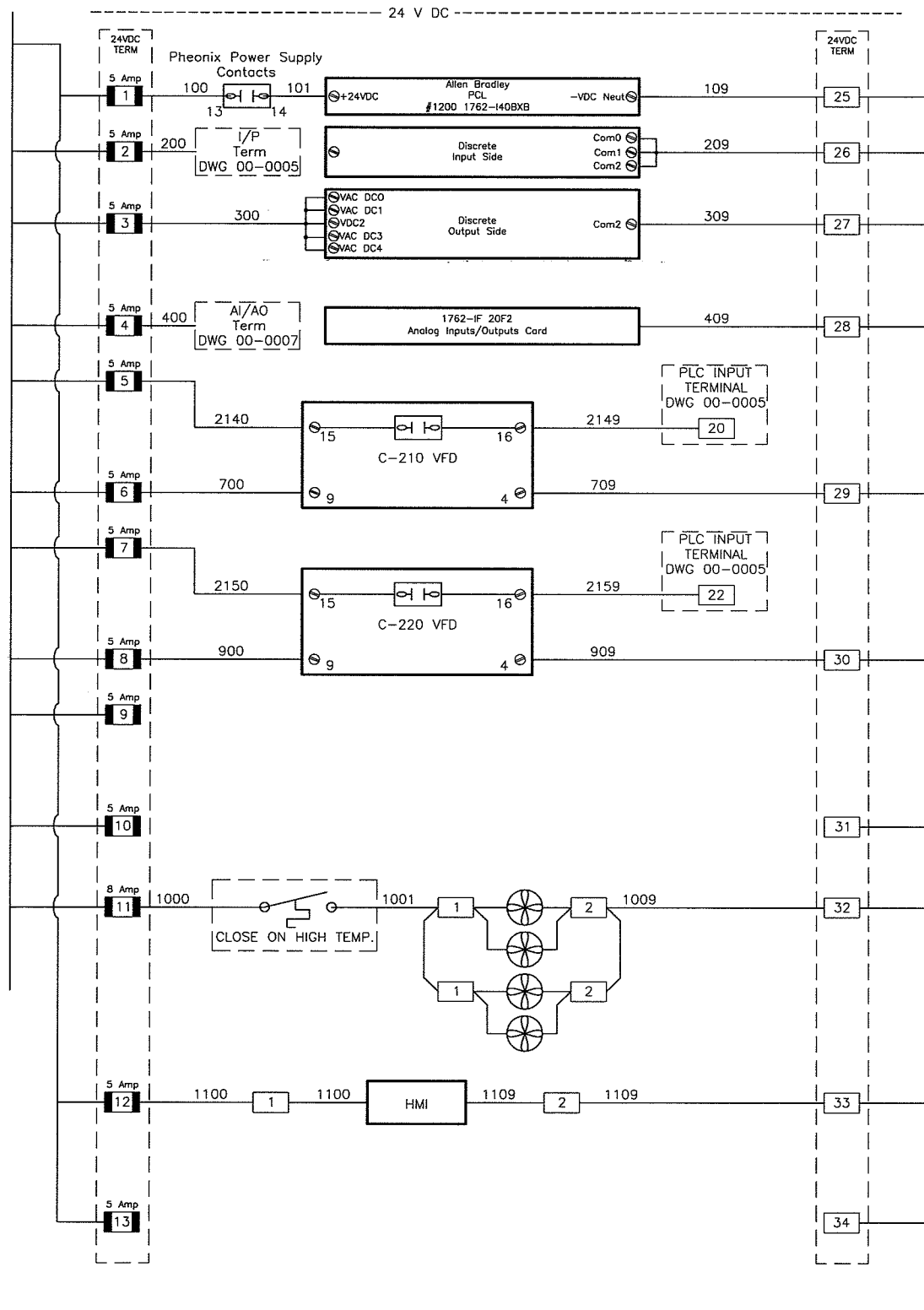
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

PC JOB NO.:  
1-987

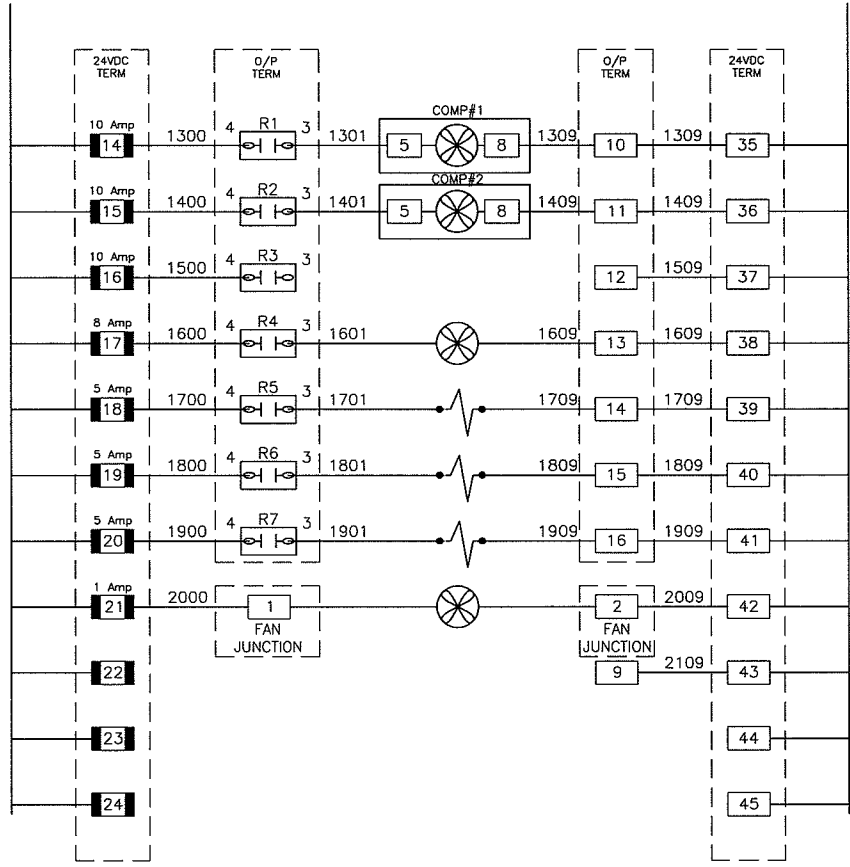
SAA-06138  
SAA-08247

**PYRAMID**  
CORPORATION

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- 1200 PLC POWER
- INPUT CARD POWER
- OUTPUT CARD POWER
- ANALOG POWER
- C-210 FAULT
- C-210 ENABLE TERM #30
- C-220 FAULT
- C-220 ENABLE TERM #30
- C-230 FAULT
- C-230 ENABLE TERM #30
- COOLING FANS
- PANELVIEW 300 MICRO



- M-210 COOLING FAN #1
- M-220 COOLING FAN #2
- M-230 COOLING FAN #3
- D-510 GAS COOLING FAN
- SOV-1 AIR DRYER
- SOV-2 AIR DRYER
- SOV-3 AIR DRYER
- PANEL HEATER FAN

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V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE				POWER RUNG DRAWING			
DWGNO.	1	08-25-08	AS BUILT	PCCI	DRAWN	B.T.M.	CHECKED
REFERENCE DRAWINGS	REV.	DATE	DESCRIPTION	BY	APPD	DATE	Job #
						July 27/2005	

**PC COMPRESSION**

2308-8th Street  
Nisku Alberta  
T9E 7Z2

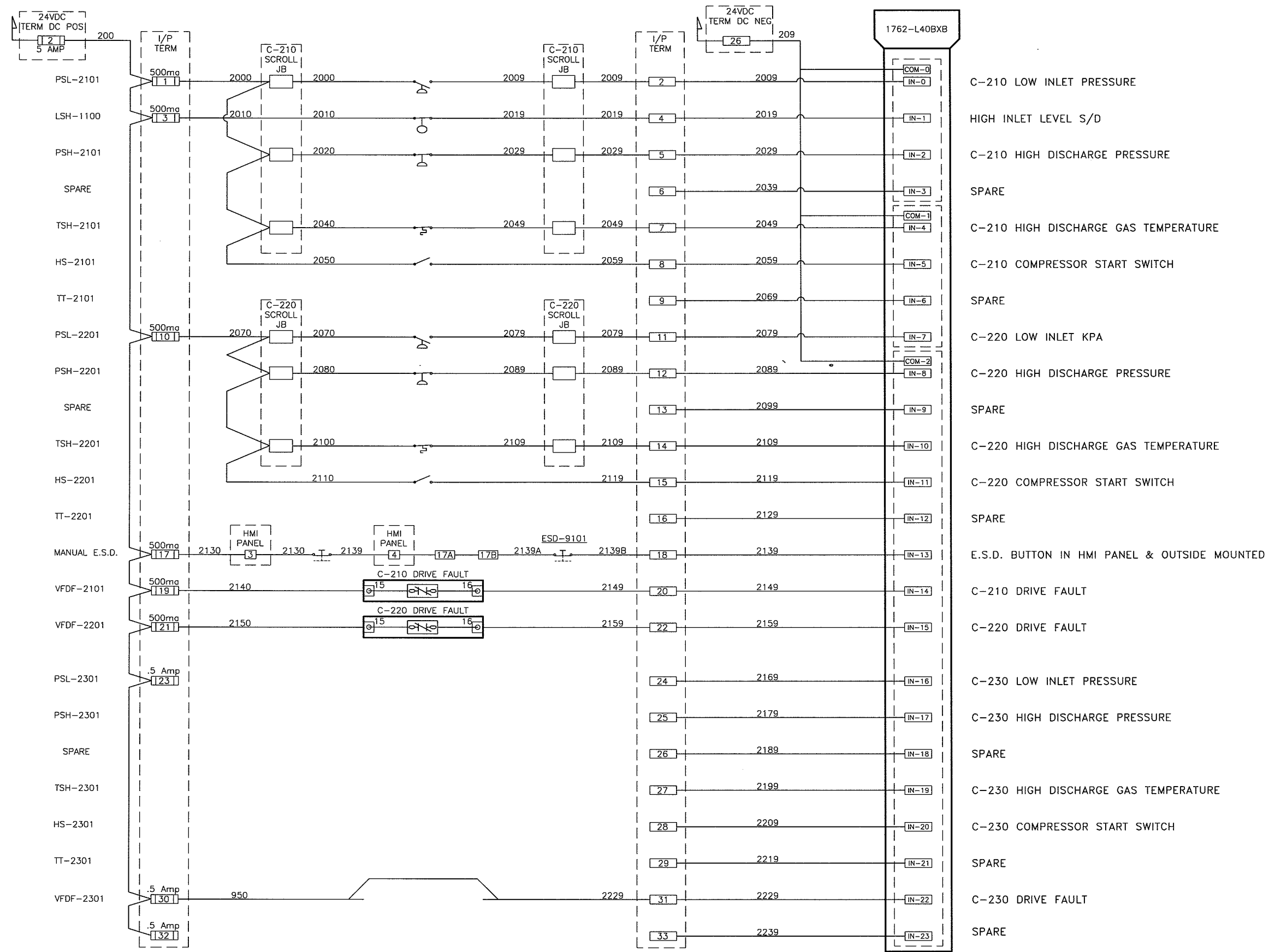
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

PC JOB NO.:  
1-987

PC Unit NO.:  
SAA-08247



P:\PC Compression\Drafting\Work-Internal\I-987 SAA-08247 AB.dwg, 8/25/2008 11:43:01 AM, scotlope, Property of PC Compression Inc. Duplication or transmittal without written consent is pr



Confidential

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DWG NO.	REV.	DATE	DESCRIPTION	BY	APPD	DATE	SCALE	DRAWING NO.	REV.
	1	08-25-08	AS BUILT	PCCI		July 27/2005		PC072705-00-0005	01

V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE

INPUT CARD

**PC COMPRESSION**

2308-8th Street  
Nisku Alberta  
T9E 7Z2

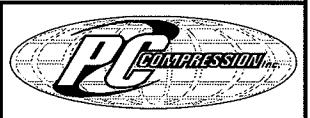
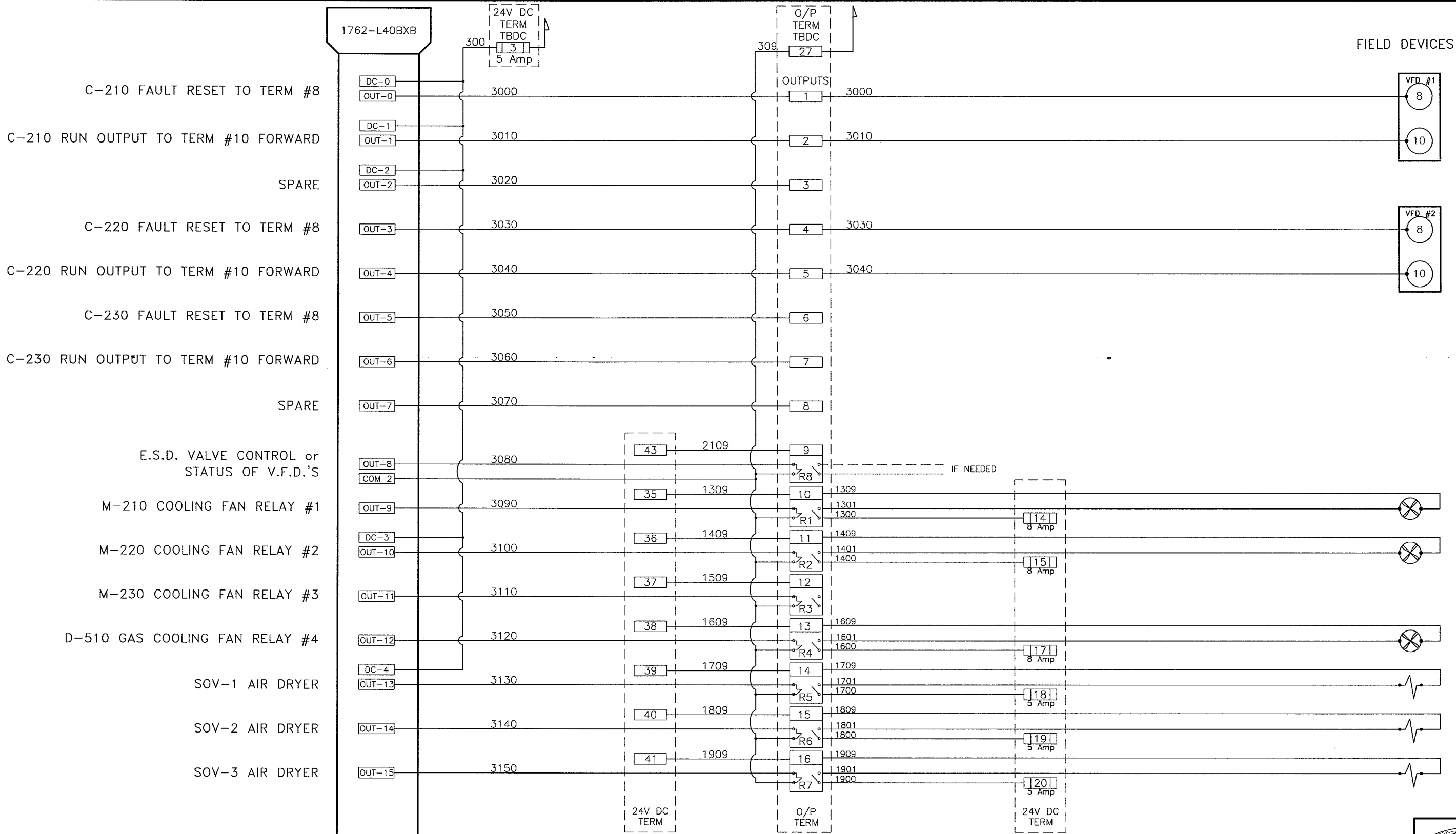
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

PC JOB NO.: I-987  
PC Unit NO.: SAA-08247

**PYRAMID**  
CORPORATION



P:\PC Compression\Drafting\Work-Internal\I-987 SAA-08247 SAA-08247 LP Husky AB\G-ELC-SAA08247 AB.dwg, 8/25/2008 11:43:11 AM, scottcps, Property of PC Compression Inc. Duplication or transmittal without written consent is pr



2308-8th Street  
Nisku Alberta  
T9E 7Z2  
Office: 780.955.4292  
Fax: 780.955.4294  
Toll Free: 866.955.4292

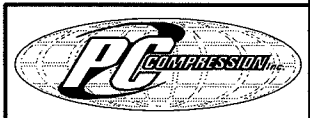
PC JOB NO.:  
I-987  
PC Unit NO.:  
SAA-08247

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				V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE			
				OUTPUT CARD			
DWG NO.	1	08-25-08	AS BUILT	PCCI	DRAWN	B.T.M.	CHECKED
REFERENCE DRAWINGS				BY	APP'D	DATE	REV.
						July 27/2005	Job #-
				PC072705-00-0006			
				01			





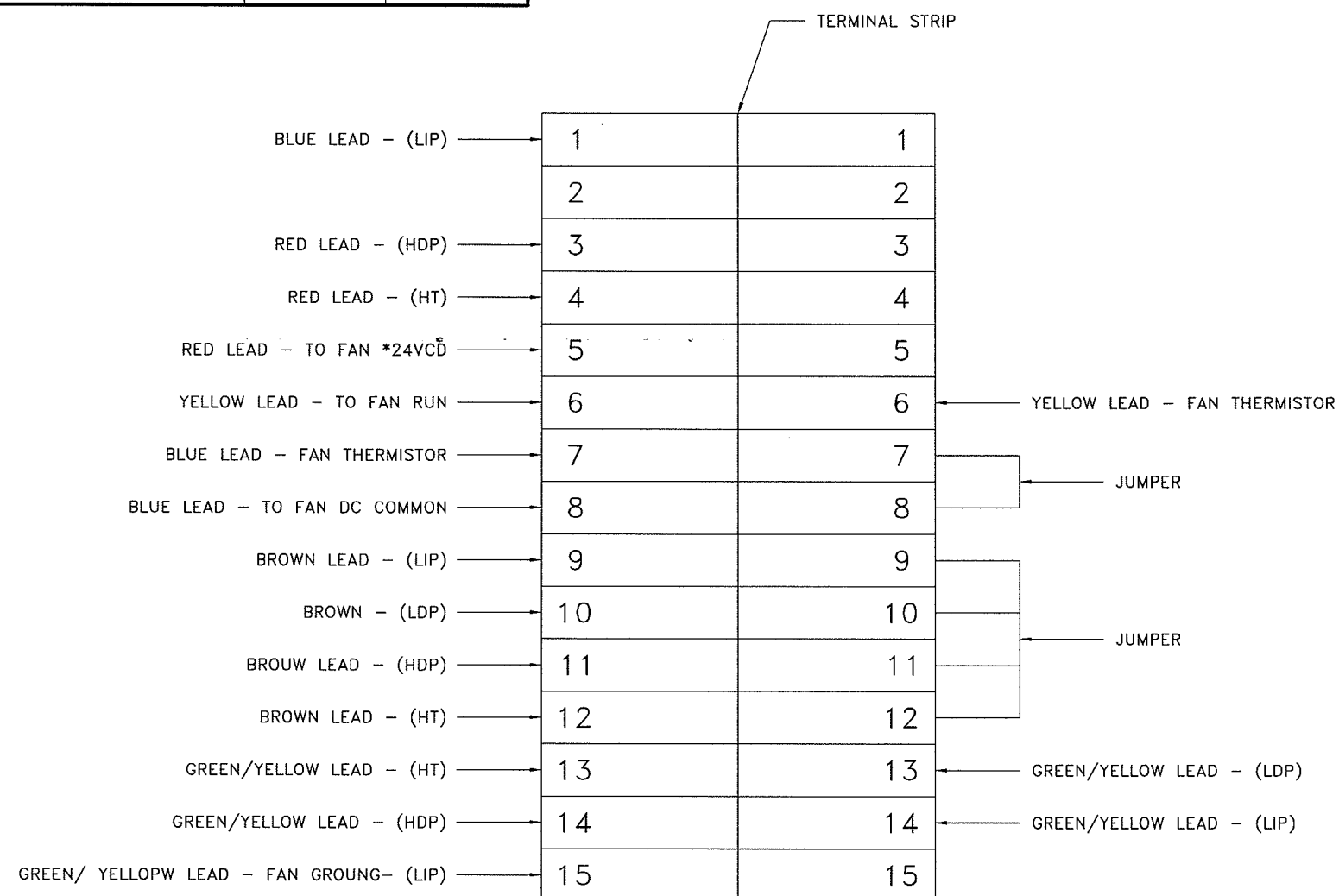
PC JOB NO.: I-987	PC Unit NO.: SAA-08247
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Pyramid Corporation

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V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE										
ANALOG INPUT / ANALOG OUTPUT										
DWGNO.	1	08-25-08	AS BUILT	PCCI	DRAWN	BTM	CHECKED	SCALE	DRAWING NO.	REV.
REFERENCE DRAWINGS	REV.	DATE	DESCRIPTION	BY	APPD	DATE	REF.		PC072705-00-0007	01



052-1365-00

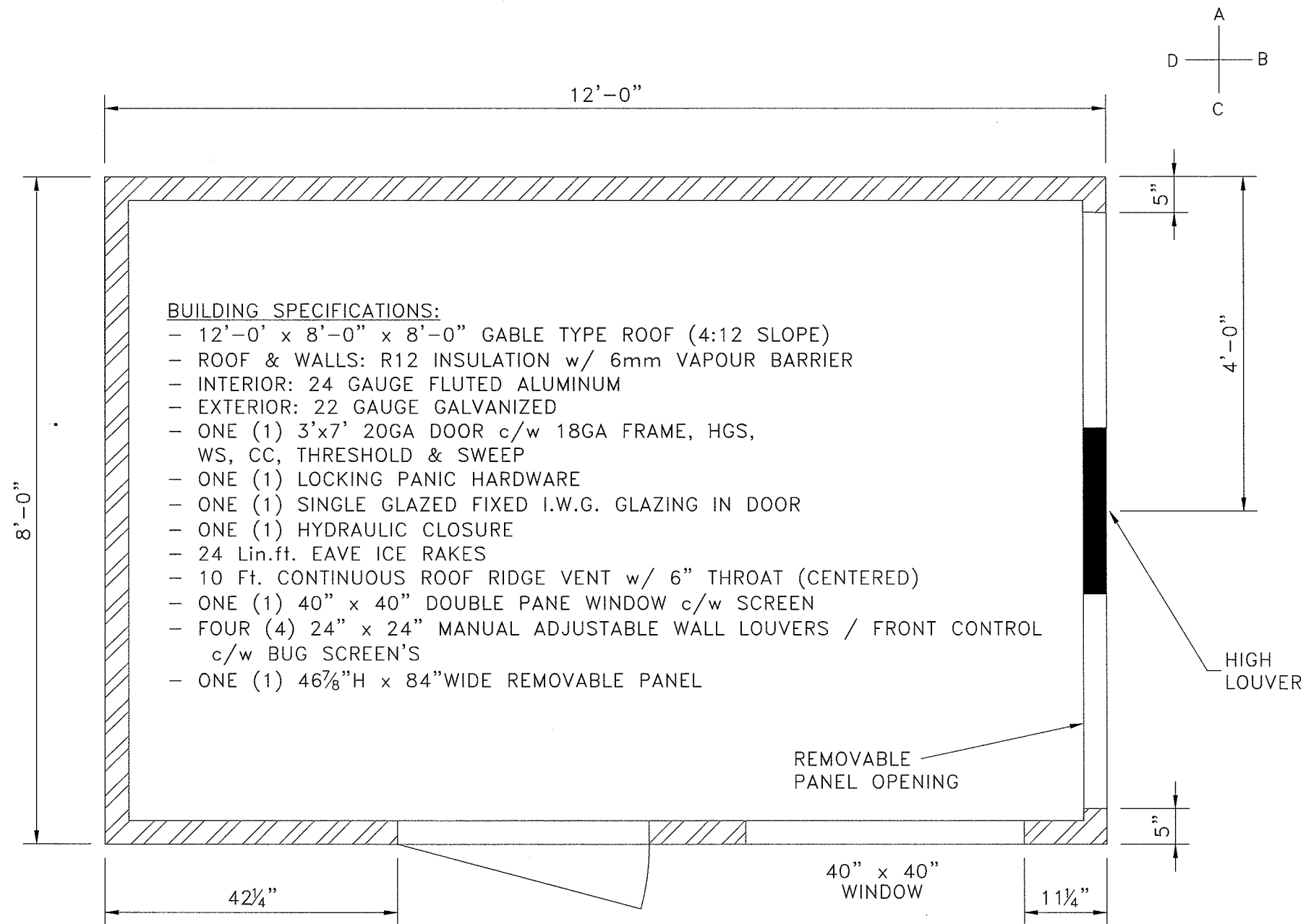
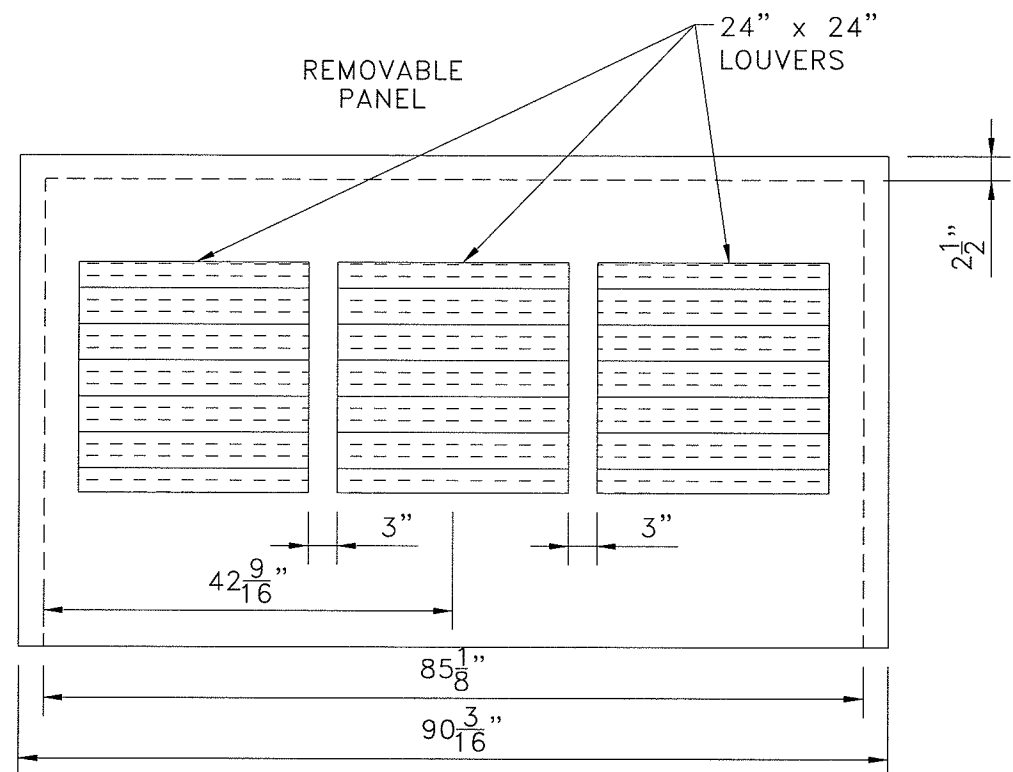


COPELAND  
CORPORATION

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 Electric Corporation.

										V.F.D. PC COMPRESSOR TWO OR THREE SCROLL DRIVE									
										COMPRESSOR TERMINATION BOX LAYOUT									
DWG NO.		1		08-25-08		AS BUILT		PCCI		DRAWN JGF.		CHECKED		SCALE		DRAWING NO.		REV.	
REFERENCE DRAWINGS		REV.		DATE		DESCRIPTION		BY		APPD		DATE		REF.		10-14-04		Job # -	
																052-1365-00		0	

P:\PC Compression\Drafting\Work-Internal\1-987 SAA-08247 SAA-222-LP Husky AB\H-BLD-SAA08247 AB.dwg, 8/25/2008 11:44:03 AM, scotlope, Property of PC Compression Inc. Duplication or transmittal without written consent is pr



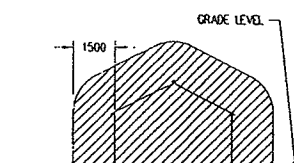
- BUILDING SPECIFICATIONS:**
- 12'-0" x 8'-0" x 8'-0" GABLE TYPE ROOF (4:12 SLOPE)
  - ROOF & WALLS: R12 INSULATION w/ 6mm VAPOUR BARRIER
  - INTERIOR: 24 GAUGE FLUTED ALUMINUM
  - EXTERIOR: 22 GAUGE GALVANIZED
  - ONE (1) 3'x7' 20GA DOOR c/w 18GA FRAME, HGS, WS, CC, THRESHOLD & SWEEP
  - ONE (1) LOCKING PANIC HARDWARE
  - ONE (1) SINGLE GLAZED FIXED I.W.G. GLAZING IN DOOR
  - ONE (1) HYDRAULIC CLOSURE
  - 24 Lin.ft. EAVE ICE RAKES
  - 10 Ft. CONTINUOUS ROOF RIDGE VENT w/ 6" THROAT (CENTERED)
  - ONE (1) 40" x 40" DOUBLE PANE WINDOW c/w SCREEN
  - FOUR (4) 24" x 24" MANUAL ADJUSTABLE WALL LOUVERS / FRONT CONTROL c/w BUG SCREEN'S
  - ONE (1) 46 7/8"H x 84"WIDE REMOVABLE PANEL

PLAN VIEW  
SCALE 1:20

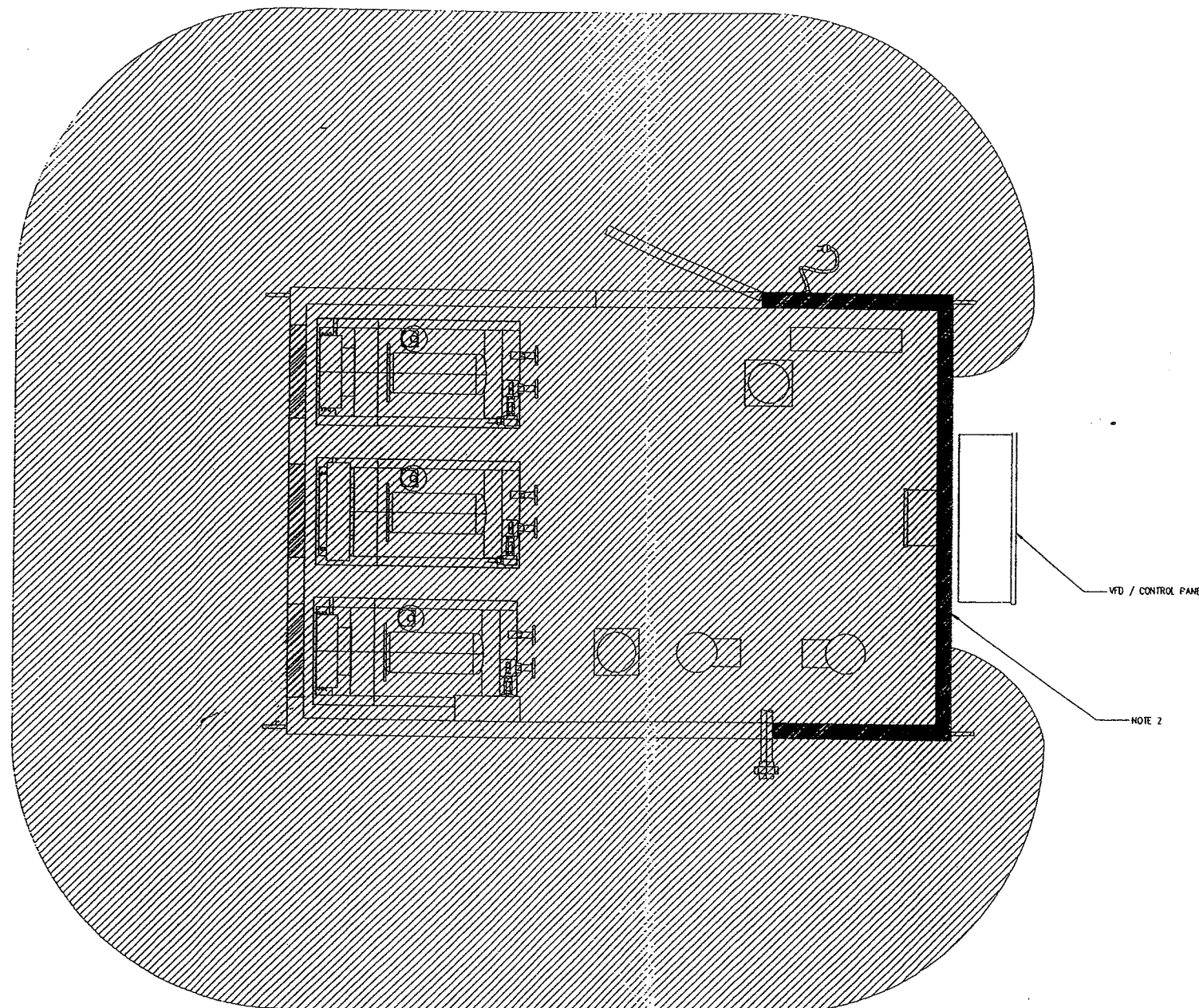
				2308-8th Street Nisku Alberta T9E 7Z2		Office: 780.955.4292 Fax: 780.955.4294 Toll Free: 866.955.4292		Drawn by: DTL Date: 08-18-04 Checked by: SDC Approved by: SDC		222 LP SAA-SCROLL SERIES SZ022C3A w/ DESICCANT TOWERS SKID MOUNTED, SWEET SERVICE									
								Company: HUSKY ENERGY		Quote/Ref. NO.: -		JOB NO.: 1-987		Unit NO.: SAA-08247		Drawing NO.: BLD-SAA08247-H-01		Rev.: 1	

	CLASS I, ZONE 0
	CLASS I, ZONE 1
	CLASS I, ZONE 2
	CLASS I, ZONE 2 UP TO 450mm ABOVE GRADE FOR HEAVIER THAN AIR GASES
	NON HAZARDOUS

# CLASSIFICATION LEGEND



## STANDARD MULTIPACK SCROLL BOOSTER COMPRESSOR BUILDING



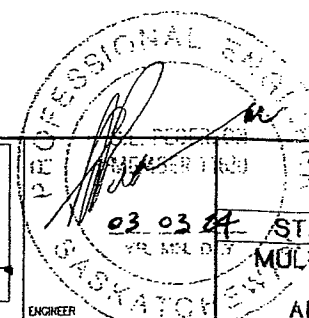
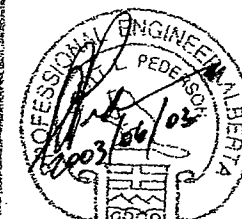
- NOTES:**
- THE INTERIOR OF THE COMPRESSOR BUILDING HAS BEEN CLASSIFIED AS CLASS I, ZONE 2 OR DIVISION 2 BASED ON A FUGITIVE EMISSIONS STUDY DATED 02/12/23, RAMCO PROJECT # 22347. ADEQUATE VENTILATION IS PROVIDED BY NATURAL MEANS, BECAUSE THE GAS PRESENT IN THIS BUILDING IS ESSENTIALLY RAW NATURAL GAS, EQUIPMENT SUITABLE FOR GAS GROUP IIA OR D IS ACCEPTABLE. INSTALLED EQUIPMENT MUST HAVE A MAXIMUM SURFACE TEMPERATURE LESS THAN 482°C OR HAVE A T1 (OR LOWER) TEMPERATURE CODE.
  - SUMMARY OF CONDITIONS:  
THE CLASS I, DIVISION 2, OR ZONE 2, AREA CLASSIFICATION ASSIGNED TO THE INTERIOR OF THE COMPRESSOR BUILDING ON THIS SITE IS SUBJECT TO THE FOLLOWING CONDITIONS: IF THESE CONDITIONS ARE NOT MET, THE AREA CLASSIFICATION SHOWN ON THIS DRAWING WILL REVERT TO CLASS I, DIVISION 1 OR ZONE 1.
    - THE VENTILATION DEVICES MAY BE SHUT BUT MAY NOT BE CLOSED OFF OR REMOVED, IF CHANGES WHICH WILL REDUCE THE VENTILATION RATE IN THE BUILDING ARE REQUIRED, THE EFFECT ON THE CONCENTRATION OF FUGITIVE EMISSIONS IN THE BUILDING MUST BE EVALUATED BY CALCULATIONS OR MONITORING.
    - PROCEDURE OR CONTROLS MUST BE IN PLACE TO ENSURE ABNORMAL SITUATIONS RESULTING IN COMBUSTIBLE CONCENTRATIONS OF GAS DO NOT PERSIST FOR MORE THAN 10 HOURS PER YEAR.
    - THE FACILITIES ARE MAINTAINED IN A MANNER THAT WILL ENSURE SIGNIFICANT LEVELS OF COMBUSTIBLE GAS (ABOVE 1-5% OF THE LEL) DO NOT EXIST UNDER NORMAL OPERATING CONDITIONS.
    - IT IS RECOMMENDED THAT COMBUSTIBLE GAS DETECTION SYSTEMS BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR IN ACCORDANCE WITH ANSI/ISA RECOMMENDED PRACTICE 12.13, PART II, INSTALLATION OPERATION AND MAINTENANCE OF COMBUSTIBLE GAS DETECTION INSTRUMENTS.
  - SECTION OF BUILDING WALL MUST BE VAPOR BARRIERED AND SEALED. ELECTRICAL CONDUITS THAT PENETRATE THIS PORTION OF WALL MUST BE SEALED BOTH INSIDE THE CONDUIT AND AROUND THE WALL PENETRATION. NO CONDUIT SHALL PENETRATE THE BUILDING WALL STRAIGHT FROM THE BACK OF THE CONTROL PANEL.

PERMIT TO PRACTICE  
RAMCO ELECTRICAL CONSULTING LTD.

Signature

Date 2003/06/03

PERMIT NUMBER: P 6426  
The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta



RAMCO STANDARD TEMPLATE (SIZE 841mm x 594mm - PLOTTING RATIO 1:15)

COMMENTS:										PROJECT NO: 22347									
										DWG DATE: 03/03/21									
										DRAWN BY: V. YOUNG									
										APPROVED BY: S. PEDERSON									
										DWG SCALE: 1:15									
										PLOTTING RATIO: 1:15									
										COMPUTER FILE NO: 2347E100									
										OLD DWG NO: NONE									
										DWG. NO. A1-22347-E100									
										REV 0									

**Ramco**  
Electrical  
Consulting Ltd.

ASSOCIATION OF PROFESSIONAL ENGINEERS  
& GEOSCIENTISTS OF SASKATCHEWAN  
CERTIFICATE OF AUTHORIZATION  
RAMCO ELECTRICAL CONSULTING LTD.  
C388  
PERMISSION TO CONSULT HELD BY  
DISCIPLINE: ELECTRICAL SIGNATURE:

PC COMPRESSION INC.  
STANDARD - COMPRESSOR  
MULTIPACK SCROLL BOOSTER COMP.  
STANDARD MODEL  
AREA CLASSIFICATION DRAWING

## ROTATING EQUIPMENT COMPRESSORS

Data Collected By: _____		Entry Date: _____		Package ID # <u>I-987</u>	
Equipment Class _____		Purchase Order # <u>8400005282</u>			
Equipment Description: <u>COMPRESSOR ASSEMBLY</u>			Tag No. <u>CA-210</u>		
Facility: _____					
Location: <u>LSD</u>	▼	Sec _____	▼	Twp _____	▼
Rge _____		▼		W/ _____	
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		▼		Ownership Status _____	
Manufacturer: <u>COPELAND SCROLL</u>		Year Built <u>2008</u>			
Equipment Condition: _____		▼		Model No. <u>SZ022C3A-EDE-234</u>	
		Serial No. <u>08F0A301K</u>			
Construction: _____		▼		QPS Certification: <u>QCC-98048</u>	
Skid Weight: _____		▼		Skid Size _____ (w x l x h)	
<b>Common Characteristics</b>					
Fluid Description <u>NG</u>		Service <u>Sweet</u>		Driven By _____	
Rotation _____		(viewed from Drive End)		# Stages _____	
Design Cap. _____		▼		Des.Suct. <u>2" WC - 10</u> psig	
		▼		Des.Disch <u>215</u> psig	
Frame HP Rtg _____		▼		Frame Max Speed <u>3600</u> RPM	
<b>Additional Characteristics for Reciprocating Compressors</b>					
# Throws _____		Cylinder #1 _____		Cylinder #2 _____	
		Cylinder #3 _____		Cylinder #4 _____	
<b>Additional Characteristics for Rotary Compressors</b>					
Rotary Comp Type _____		▼			
Csg MAWP _____		Csg Mat'l _____			
<b>Additional Characteristics for Centrifugal Compressor and Turbo Expander</b>					
Casing Type _____		▼			
Csg MAWP _____		Csg Mat'l _____			
<b>Material Transfer Information</b>					
Transfer Recorded By: _____		Date _____			
From <u>LSD</u>	▼	Sec _____	▼	Twp _____	▼
Rge _____		▼		W/ _____	
Transfer Yard _____					
To <u>LSD</u>	▼	Sec _____	▼	Twp _____	▼
Rge _____		▼		W/ _____	
Facility _____		Receiving AFE: _____			
<b>Additional Notes</b>					

Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates

## ROTATING EQUIPMENT COMPRESSORS

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: COMPRESSOR ASSEMBLY			Tag No. CA-220		
Facility: _____					
Location: LSD	▼ Sec	▼ Twp	▼ Rge	▼ W/	▼
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____		▼	
Manufacturer: COPELAND SCROLL		Year Built 2008			
Equipment Condition: ▼		Model No. SZ022C3A-EDE-234		Serial No. 08G0A366K	
Construction: ▼		QPS Certification: QCC-98072			
Skid Weight: ▼		Skid Size _____		(w x l x h)	
Common Characteristics					
Fluid Description NG		Service Sweet ▼		Driven By ▼	
Rotation ▼ (viewed from Drive End)		# Stages			
Design Cap. ▼		Des.Suct. 2" WC - 10 psig ▼		Des.Disch 215 psig ▼	
Frame HP Rtg ▼		Frame Max Speed 3600 RPM			
Additional Characteristics for Reciprocating Compressors					
# Throws		Cylinder #1 ▼		Cylinder #2 ▼	
		Cylinder #3 ▼		Cylinder #4 ▼	
Additional Characteristics for Rotary Compressors					
Rotary Comp Type ▼					
Csg MAWP ▼		Csg Mat'l			
Additional Characteristics for Centrifugal Compressor and Turbo Expander					
Casing Type ▼					
Csg MAWP ▼		Csg Mat'l			
Material Transfer Information					
Transfer Recorded By: _____		Date _____			
From LSD	▼ Sec	▼ Twp	▼ Rge	▼ W/	▼
Transfer Yard _____					
To LSD	▼ Sec	▼ Twp	▼ Rge	▼ W/	▼
Facility _____				Receiving AFE: _____	
Additional Notes					

Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates

# PRESSURE VESSELS

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class Separator ▼		Purchase Order # 8400005282			
Equipment Description INLET SEPERATOR			Tag No. V-110		
Facility: _____					
Location: LSD ▼ S ▼ Twp ▼ Rge ▼ W/ ▼					
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____ ▼		Ownership Status _____ ▼			
Manufacturer: LO TECH MANUFACTURING		Year Built 2008			
Equipment Condition: _____ ▼		Model No. _____		Serial No. 8600-700	
Construction: _____ ▼					
Skid Weight: _____ ▼		Skid Size _____ (w x l x h)			
Common Characteristics					
Fluid Description: NATURAL GAS		Service Sweet ▼		Code Stamp _____ ▼	
Prov. Reg. No.(A#): _____		CRN OH5415.21345		# Phases 2	
Shell MAWP: 600 psig ▼		@maxTemp 650 °F ▼		MDMT -20 °F ▼	
Shell Mat'l: SA-106 B		Shell Thick 0.322 in ▼		Shell CA 0.0625 in ▼	
Head Mat'l: SA-234 WPB		Head Thick 0.322 in ▼		Head CA 0.0625 in ▼	
Nozzle Type: H CPLG		Nozzle Rtg 3000#		Ansi	
Nozzle Mat'l: SA-105 N		Nozzle Thick _____ ▼		Nozzle CA _____ ▼	
X-Ray: _____ ▼		# Manways _____		# Inspection Ports _____	
Volume: _____ ▼		Design Flow _____ ▼		Stress Relief _____ ▼	
Diameter: 8.625 in ▼		Length/Height 48 in ▼			
Support Type: Skirt ▼				Orientation Vertical ▼	
Internal Coating: N ▼		Internal Coating /Cladding Type _____			
Insulated: N ▼		Insulation Thickness _____ ▼		Painted / Primed N ▼	
Internals					
Component Type: _____		Manufacturer _____		Model _____	
Component Mat'l: _____		Component Size _____		Component CA _____ ▼	
Removable: _____ ▼					
Additional Characteristics for Treaters					
Treater Type _____		Desand System _____ ▼			
# Firetubes _____		Firetube S/N _____		Firetube Rating _____ ▼	
Material Transfer Information					
Transfer Recorded By: _____					Date _____
From LSD ▼ S ▼ Twp ▼ Rge ▼ W/ ▼					
Transfer Yard _____					
To LSD ▼ S ▼ Twp ▼ Rge ▼ W/ ▼					
Facility _____			Receiving AFE: _____		
Additional Notes					

Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates

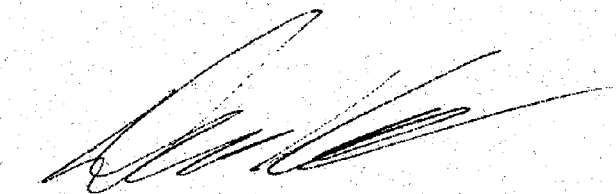


## Certificate Of Compliance

RECEIVED JUL 24 2008

I Hereby Certify That The Below Registered Category "H" Pressure Fitting Has Been Designed, Manufactured, and Pressure Tested In Accordance With The Alberta Safety Codes Act, CSA B51 And ASME Section VIII, Division 1, 2007 Edition.

CRN	0H5415.21345			
S/N	8600.700 ✓			
Diameter	8.625	Inches	Overall Length	56 Inches
Year Built	2008			
MAWP	600	PSIG	@	650 °F
MDMT	-20 °F			
C.A.	0.0625	Inches		
Radiography	N/A			
PWHT :	Time	N/A	min.	Temp. N/A °F
Hydro Tested	@	780	PSIG	



Quality Control Manager  
Dennis Klokocki

July 24, 2008

# PRESSURE VESSELS

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class Separator ▼		Purchase Order # 8400005282			
Equipment Description DISCHARGE SCRUBBER			Tag No. V-120		
Facility: _____					
Location: LSD ▼ S ▼ Twp ▼ Rge ▼ W/ ▼					
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____ ▼		Ownership Status _____ ▼			
Manufacturer: LO TECH MANUFACTURING		Year Built 2008			
Equipment Condition: _____ ▼		Model No. _____		Serial No. 8600.702	
Construction: _____ ▼					
Skid Weight: _____ ▼		Skid Size _____ (w x l x h)			
Common Characteristics					
Fluid Description: NATURAL GAS		Service Sweet ▼		Code Stamp _____ ▼	
Prov. Reg. No.(A#): _____		CRN OH5415.21345		# Phases 2	
Shell MAWP: 600 psig ▼		@maxTemp 650 °F ▼		MDMT -20 °F ▼	
Shell Mat'l: SA-106 B		Shell Thick 0.322 in ▼		Shell CA 0.0625 in ▼	
Head Mat'l: SA-234 WPB		Head Thick 0.322 in ▼		Head CA 0.0625 in ▼	
Nozzle Type: T.O.L.		Nozzle Rtg 3000#		Ansi	
Nozzle Mat'l: SA-105 N		Nozzle Thick _____		Nozzle CA _____ ▼	
X-Ray: _____ ▼		# Manways _____		# Inspection Ports _____	
Volume: _____ ▼		Design Flow _____ ▼		Stress Relief _____ ▼	
Diameter: 8.625 in ▼		Length/Height 48 in ▼			
Support Type: Skirt ▼		Orientation Vertical ▼			
Internal Coating: N ▼		Internal Coating /Cladding Type _____			
Insulated: N ▼		Insulation Thickness _____ ▼		Painted / Primed N ▼	
Internals					
Component Type: _____		Manufacturer _____		Model _____	
Component Mat'l: _____		Component Size _____		Component CA _____ ▼	
Removable: _____ ▼					
Additional Characteristics for Treaters					
Treater Type _____		Desand System _____ ▼			
# Firetubes _____		Firetube S/N _____		Firetube Rating _____ ▼	
Material Transfer Information					
Transfer Recorded By: _____					Date _____
From LSD ▼ S ▼ Twp ▼ Rge ▼ W/ ▼					
Transfer Yard _____					
To LSD ▼ S ▼ Twp ▼ Rge ▼ W/ ▼					
Facility _____			Receiving AFE: _____		
Additional Notes					

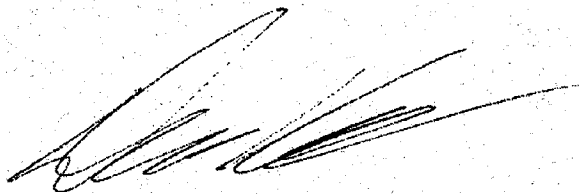
Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates

## Certificate Of Compliance

RECEIVED JUL 24 2008

I Hereby Certify That The Below Registered Category "H" Pressure Fitting Has Been Designed, Manufactured, and Pressure Tested In Accordance With The Alberta Safety Codes Act, CSA B51 And ASME Section VIII, Division 1, 2007 Edition.

CRN	0H5415.21345		
S/N	8600.702 ✓		
Diameter	8.625	Inches	Overall Length 56 Inches
Year Built	2008		
MAWP	600	PSIG	@ 650 °F
MDMT	-20	°F	
C.A.	0.0625	Inches	
Radiography	N/A		
PWHT :	Time	N/A min.	Temp. N/A °F
Hydro Tested	@	780	PSIG



Quality Control Manager  
Dennis Klokocki

July 24, 2008

## PRESSURE VESSELS

Data Collected By:		Entry Date:		Package ID # I-987	
Equipment Class		Purchase Order # 8400005282			
Equipment Description		RIGHT DRYING TOWER		Tag No. V-140	
Facility:					
Location: LSD		S		Twp	
Cost Center:		Acquis Value		Acquis Date	
Equipment Status:		Ownership Status			
Manufacturer:		LO TECH MANUFACTURING		Year Built 2008	
Equipment Condition:		Model No.		Serial No. 8600.691	
Construction:					
Skid Weight:		Skid Size		(w x l x h)	
Common Characteristics					
Fluid Description:		NATURAL GAS		Service Sweet	
Prov. Reg. No.(A#):		CRN OH5415.21345		Code Stamp	
				# Phases 2	
Shell MAWP:		600 psig		@maxTemp 650 °F	
				MDMT -20 °F	
Shell Mat'l:		SA-106 B		Shell Thick 0.322 in	
				Shell CA 0.0625 in	
Head Mat'l:		SA-234 WPB		Head Thick 0.322 in	
				Head CA 0.0625 in	
Nozzle Type:		T.O.L.		Nozzle Rtg CL 3000	
				Ansi	
Nozzle Mat'l:		SA-105 N		Nozzle Thick	
				Nozzle CA	
X-Ray:		# Manways		# Inspection Ports	
Volume:		Design Flow		Stress Relief	
Diameter:		8.625 in		Length/Height 48 in	
Support Type:		Other		Orientation Vertical	
Internal Coating:		N		Internal Coating /Cladding Type	
Insulated:		Insulation Thickness		Painted / Primed N	
Internals					
Component Type:		Manufacturer		Model	
Component Mat'l:		Component Size		Component CA	
Removable:					
Additional Characteristics for Treater					
Treater Type		Desand System			
# Firetubes		Firetube S/N		Firetube Rating	
Material Transfer Information					
Transfer Recorded By:		Date			
From LSD		S		Twp	
				Rge	
Transfer Yard				W/	
To LSD		S		Twp	
				Rge	
Facility				W/	
Receiving AFE:					
Additional Notes					
DRYING MEDIA: ACTIVATED ALUMINA SOLID (1/16 DIA.)					

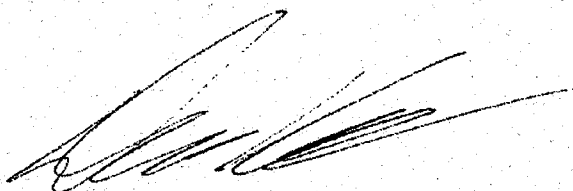
### Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates

## Certificate Of Compliance

RECEIVED JUL 24 2008

I Hereby Certify That The Below Registered Category "H" Pressure Fitting Has Been Designed, Manufactured, and Pressure Tested In Accordance With The Alberta Safety Codes Act, CSA B51 And ASME Section VIII, Division 1, 2007 Edition.

CRN	0H5415.21345		
S/N	8600.691 ✓ <i>Bullet</i>		
Diameter	8.625	Inches	Overall Length 56 Inches
Year Built	2008		
MAWP	600	PSIG	@ 650 °F
MDMT	-20 °F		
C.A.	0.0625	Inches	
Radiography	N/A		
PWHT : Time	N/A	min.	Temp. N/A °F
Hydro Tested @	780	PSIG	

  
Quality Control Manager  
Dennis Klokocki

July 24, 2008

# PRESSURE VESSELS

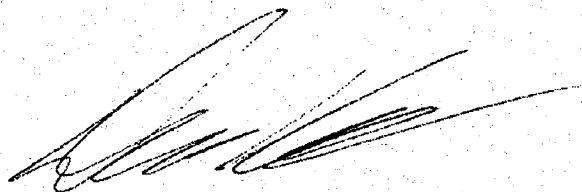
Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class <span style="border: 1px solid black; padding: 2px;">Filter ▼</span>		Purchase Order # 8400005282			
Equipment Description LEFT DRYING TOWER			Tag No. V-130		
Facility: _____					
Location: LSD <span style="border: 1px solid black; padding: 2px;">▼</span> S <span style="border: 1px solid black; padding: 2px;">▼</span> Twp <span style="border: 1px solid black; padding: 2px;">▼</span> Rge <span style="border: 1px solid black; padding: 2px;">▼</span> W/ <span style="border: 1px solid black; padding: 2px;">▼</span>					
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: <span style="border: 1px solid black; padding: 2px;">▼</span>		Ownership Status <span style="border: 1px solid black; padding: 2px;">▼</span>			
Manufacturer: LO TECH MANUFACTURING		Year Built 2008			
Equipment Condition: <span style="border: 1px solid black; padding: 2px;">▼</span>		Model No. _____		Serial No. 8600.695	
Construction: <span style="border: 1px solid black; padding: 2px;">▼</span>					
Skid Weight: _____		Skid Size _____		<span style="border: 1px solid black; padding: 2px;">▼</span> (w x l x h)	
<b>Common Characteristics</b>					
Fluid Description: NATURAL GAS		Service Sweet <span style="border: 1px solid black; padding: 2px;">▼</span>		Code Stamp <span style="border: 1px solid black; padding: 2px;">▼</span>	
Prov. Reg. No.(A#): _____		CRN OH5415.21345		# Phases 2	
Shell MAWP: 600 psig <span style="border: 1px solid black; padding: 2px;">▼</span>		@maxTemp 650 °F <span style="border: 1px solid black; padding: 2px;">▼</span>		MDMT -20 °F <span style="border: 1px solid black; padding: 2px;">▼</span>	
Shell Mat'l: SA-106 B		Shell Thick 0.322 in <span style="border: 1px solid black; padding: 2px;">▼</span>		Shell CA 0.0625 in <span style="border: 1px solid black; padding: 2px;">▼</span>	
Head Mat'l: SA-234 WPB		Head Thick 0.322 in <span style="border: 1px solid black; padding: 2px;">▼</span>		Head CA 0.0625 in <span style="border: 1px solid black; padding: 2px;">▼</span>	
Nozzle Type: T.O.L.		Nozzle Rtg 3000#		Ansi	
Nozzle Mat'l: SA-105 N		Nozzle Thick <span style="border: 1px solid black; padding: 2px;">▼</span>		Nozzle CA <span style="border: 1px solid black; padding: 2px;">▼</span>	
X-Ray: <span style="border: 1px solid black; padding: 2px;">▼</span>		# Manways _____		# Inspection Ports _____	
Volume: <span style="border: 1px solid black; padding: 2px;">▼</span>		Design Flow <span style="border: 1px solid black; padding: 2px;">▼</span>		Stress Relief <span style="border: 1px solid black; padding: 2px;">▼</span>	
Diameter: 8.625 in <span style="border: 1px solid black; padding: 2px;">▼</span>		Length/Height 48 in <span style="border: 1px solid black; padding: 2px;">▼</span>		Orientation Vertical <span style="border: 1px solid black; padding: 2px;">▼</span>	
Support Type: Other <span style="border: 1px solid black; padding: 2px;">▼</span>		Internal Coating /Cladding Type _____			
Internal Coating: N <span style="border: 1px solid black; padding: 2px;">▼</span>		Insulation Thickness <span style="border: 1px solid black; padding: 2px;">▼</span>		Painted / Primed N <span style="border: 1px solid black; padding: 2px;">▼</span>	
<b>Internals</b>					
Component Type: _____		Manufacturer _____		Model _____	
Component Mat'l: _____		Component Size _____		Component CA <span style="border: 1px solid black; padding: 2px;">▼</span>	
Removable: <span style="border: 1px solid black; padding: 2px;">▼</span>					
<b>Additional Characteristics for Treater</b>					
Treater Type _____		Desand System <span style="border: 1px solid black; padding: 2px;">▼</span>			
# Firetubes _____		Firetube S/N _____		Firetube Rating <span style="border: 1px solid black; padding: 2px;">▼</span>	
<b>Material Transfer Information</b>					
Transfer Recorded By: _____					Date _____
From LSD <span style="border: 1px solid black; padding: 2px;">▼</span> S <span style="border: 1px solid black; padding: 2px;">▼</span> Twp <span style="border: 1px solid black; padding: 2px;">▼</span> Rge <span style="border: 1px solid black; padding: 2px;">▼</span> W/ <span style="border: 1px solid black; padding: 2px;">▼</span>					
Transfer Yard _____					
To LSD <span style="border: 1px solid black; padding: 2px;">▼</span> S <span style="border: 1px solid black; padding: 2px;">▼</span> Twp <span style="border: 1px solid black; padding: 2px;">▼</span> Rge <span style="border: 1px solid black; padding: 2px;">▼</span> W/ <span style="border: 1px solid black; padding: 2px;">▼</span>					
Facility _____			Receiving AFE: _____		
<b>Additional Notes</b>					
DRYING MEDIA: ACTIVATED ALUMINA SOLID (1/16 DIA.)					

## Certificate Of Compliance

RECEIVED JUL 24 2008

I Hereby Certify That The Below Registered Category "H" Pressure Fitting Has Been Designed, Manufactured, and Pressure Tested In Accordance With The Alberta Safety Codes Act, CSA B51 And ASME Section VIII, Division 1, 2007 Edition.

CRN	0H5415.21345			
S/N	8600.695 ✓			
Diameter	8.625	Inches	Overall Length	56 Inches
Year Built	2008			
MAWP	600	PSIG	@	650 °F
MDMT	-20 °F			
C.A.	0.0625	Inches		
Radiography	N/A			
PWHT :	Time	N/A	min.	Temp. N/A °F
Hydro Tested	@	780	PSIG	



Quality Control Manager  
Dennis Klokocki

July 24, 2008

## Valve, Piping and Fitting

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: PRESSURE SAFETY VALVE		Tag No. PSV-1101			
Facility: _____					
Location: LSD	Sec	Twp	Rge	W/	
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: MERCER VALVE CANADA		Year Built 2008			
Equipment Condition: _____		Model No. 9117D51V06E1		Serial No. 406634	
Construction: _____					
Skid Weight: _____		Skid Size _____		(w x l x h)	
<b>Common Characteristics</b>					
Fluid Description NATURAL GAS		Service Sweet		Pressure Rating _____ Ansi	
CRN OG8841.5C	Code Stamp U		PP# _____		
Piping Body Material _____		Sched. Thick _____		C.A. _____	
Nominal Size _____		Internal Coating _____		Painted/Primed _____	
<b>Additional Characteristics for ESD Valve, Choke and Specialty Valve</b>					
Design Valve Type _____					
MAWP _____	@Max Temp. _____		MDMT _____		
Trim _____	Internal Material _____		Actuator Type _____		
Fire Safe _____	WT Thickness _____		Bonnet Design _____		
<b>Additional Characteristics for Safety Valves</b>					
Capacity 228 SCFM	Service Date _____		Back Pressure _____		
Set Press. 100 psig	Pop Press. _____		Bonnet Design _____		
Inlet Size 1 in	Outlet Size 1 in		Trim Material STANDARD		
Inlet Connection M NPT	Outlet Connection F NPT				
Equip. Protected V-110	S/N 8600.700		AND PIPING		
Equip. Protected P-610	S/N 1585072		AND PIPING		
Equip. Protected _____	S/N _____				
Equip. Protected _____	S/N _____				
<b>Additional Characteristics for Rupture Disc</b>					
Rupture Pressure _____	Capacity _____				
Disc Mat'l _____	Equipment Protected S/N _____				
	Equipment Protected S/N _____				
<b>Additional Characteristics for Piping and Manifold</b>					
Design Pressure _____					
# Inlets _____	Inlet Diameter _____		Inlet Connection _____		
# Outlets _____	Outlet Diameter _____		Outlet Connection _____		
<b>Additional Characteristics for Meter Run</b>					
Type _____	Recorder Man. _____		Equipped with SCADA _____		
Chart Recorder _____	Straighting Vanes _____				
<b>Material Transfer Information</b>					
Transfer Recorded By: _____					
From LSD	Sec	Twp	Rge	W/	Date _____
Transfer Yard _____					
To LSD	Sec	Twp	Rge	W/	
Facility _____					Receiving AFE _____
<b>Additional Notes</b>					





UNIFIED  
VALVE LTD.

# MERCER VALVE INSPECTION AND TEST REPORT

BRANCH: Edmonton

Serial #: 406634 ✓

Work Order: 412687

Customer PO#: 510568-00

Date: 7/25/2008

Customer: PC COMPRESSION

Facility: NISKU

LSD:

PSV Location:

A#:

Cust Id:

Cust. Ref.:

Valve PO: 510568-00

## VALVE DATA

Man.: Mercer

Model: 91-17D51V06E1

Serial: 406634

Conn: Threaded

Inlet: 1 inch MNPT

Orifice: .122

Outlet: 1 inch FNPT

Set Pres: 100 PSI ✓

Back Press: 0 PSI

Temp: 70 F

Cold/Diff Set Press: PSI

Cap: 228 SCFM ✓

Lift Lever: ☐

Cap Assembly: Closed

Trim: Standard

Code Symbol: UV

CRN#: 0G8841.5C

## CUSTOMER INSTRUCTIONS

Valve Instruct. Factory Set

Instructions: Sold New Valve

Reset Required? ☐

RESET INFORMATION: New Pressure:

New Cold/Diff Set:

New Capacity:

## COMPONENTS INSPECTION

### Components Installed

### Components Removed

PC COMPRESSION	
DATE	RECEIVED JUL 25 2008
P.O. #	510568-00 JAW
SIGNATURE:	SDC
APPROVED BY Q.C. INSPECTOR	

New Model #:

Spring #: 05-006

New Inlet Size:

Trim: Standard

Valve Medium: Gas / Air

Temperature: 70 F

Disassembly:

Inspection: Joe Parsons

Reassembly:

## FINAL TEST:

Test Medium:

Simmer:

Set Pressure:

Reseat:

Leakage: BPM

B.P. Test:

Cold/Diff Set:

Test Gauge:

Tested by:

## FINAL INSPECTION:

SEAL Installed: ☒

End Protectors Installed: ☒

Painted: ☐

Palletized: ☐

Ship Container: ☒

Flex Gaskets Supplied: ☐

Final Inspection: Joe Parsons

Customer Inspection

INSPECTION ID#: 12406

Comments:

## Valve, Piping and Fitting

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: PRESSURE SAFETY VALVE		Tag No. PSV-1201			
Facility: _____					
Location: LSD _____ Sec _____ Twp _____ Rge _____ W/ _____					
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: MERCER VALVE CANADA		Year Built 2008			
Equipment Condition: _____		Model No. 9117D51V07E1		Serial No. 439214	
Construction: _____					
Skid Weight: _____		Skid Size _____		(w x l x h)	
<b>Common Characteristics</b>					
Fluid Description NATURAL GAS		Service Sweet _____		Pressure Rating _____ Ansi	
CRN OG8841.5C		Code Stamp U _____		PP# _____	
Piping Body Material _____		Sched. Thick _____		C.A. _____	
Nominal Size _____		Internal Coating _____		Painted/Primed _____	
<b>Additional Characteristics for ESD Valve, Choke and Specialty Valve</b>					
Design Valve Type _____					
MAWP _____		@Max Temp. _____		MDMT _____	
Trim _____		Internal Material _____		Actuator Type _____	
Fire Safe _____		WT Thickness _____		Bonnet Design _____	
<b>Additional Characteristics for Safety Valves</b>					
Capacity 329 SCFM _____		Service Date _____			
Set Press. 150 psig _____		Pop Press. _____		Back Pressure _____	
Inlet Size 1 in _____		Outlet Size 1 in _____		Bonnet Design _____	
Inlet Connection M NPT		Outlet Connection F NPT		Trim Material STANDARD	
Equip. Protected V-120		S/N 8600.702		AND PIPING	
Equip. Protected E-510		S/N 80504014		AND PIPING	
Equip. Protected F-810		S/N _____		AND PIPING	
<b>Additional Characteristics for Rupture Disc</b>					
Rupture Pressure _____		Capacity _____			
Disc Mat'l _____		Equipment Protected _____		S/N _____	
		Equipment Protected _____		S/N _____	
<b>Additional Characteristics for Piping and Manifold</b>					
Design Pressure _____					
# Inlets _____		Inlet Diameter _____		Inlet Connection _____	
# Outlets _____		Outlet Diameter _____		Outlet Connection _____	
<b>Additional Characteristics for Meter Run</b>					
Type _____		Recorder Man. _____		Equipped with SCADA _____	
Chart Recorder _____		Straighting Vanes _____			
<b>Material Transfer Information</b>					
Transfer Recorded By: _____					
From LSD _____ Sec _____ Twp _____ Rge _____ W/ _____		Date _____			
Transfer Yard _____					
To LSD _____ Sec _____ Twp _____ Rge _____ W/ _____					
Facility _____		Receiving AFE _____			
<b>Additional Notes</b>					



UNIFIED  
VALVE LTD.

MERCER VALVE INSPECTION AND TEST REPORT

BRANCH: Edmonton

Serial #: 439214 ✓

Work Order: 412687

Customer PO#: 510568-00

Date: 7/25/2008

Customer: PC COMPRESSION

Facility: NISKU

LSD:

PSV Location:

A#:

Cust Id:

Cust. Ref.:

Valve PO: 510568-00

VALVE DATA

Man.: Mercer

Model: 91-17D51V07E1

Serial: 439214

Conn: Threaded

Inlet: 1 inch MNPT

Orifice: .122

Outlet: 1 inch FNPT

Set Pres: 150 PSI ✓

Back Press: 0 PSI

Temp: 70 F

Cold/Diff Set Press: PSI

Cap: 329 SCFM ✓

Lift Lever: ☐

Cap Assembly: Closed

Trim: Standard

Code Symbol: UV

CRN#: 0G8841.5C

CUSTOMER INSTRUCTIONS

Valve Instruct. Factory Set

Instructions: Sold New Valve

Reset Required? ☐

RESET INFORMATION: New Pressure:

New Cold/Diff Set:

New Capacity:

COMPONENTS INSPECTION

Components Installed

Components Removed

PC COMPRESSION	
RECEIVED	JUL 25 2008
DATE	
P.O. #	570568-00 JMW
SIGNATURE:	SDC
APPROVED BY Q.C. INSPECTOR	

New Model #:

Spring #: 05-007

New Inlet Size:

Trim: Standard

Valve Medium: Gas / Air

Temperature: 70 F

Disassembly:

Inspection: Joe Parsons

Reassembly:

FINAL TEST:

Test Medium:

Simmer:

Set Pressure:

Reseat:

Leakage: BPM

B.P. Test:

Cold/Diff Set:

Test Gauge:

Tested by:

FINAL INSPECTION:

SEAL Installed: ☒

End Protectors Installed: ☒

Painted: ☐

Palletized: ☐

Ship Container: ☒

Flex Gaskets Supplied: ☐

Final Inspection: Joe Parsons

Customer Inspection

INSPECTION ID#: 12423

Comments:

## Valve, Piping and Fitting

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: PRESSURE SAFETY VALVE		Tag No. PSV-1401			
Facility: _____					
Location: LSD	Sec	Twp	Rge	W/	
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: MERCER VALVE CANADA		Year Built 2008			
Equipment Condition: _____		Model No. 9117D51V06E1		Serial No. 413216	
Construction: _____					
Skid Weight: _____		Skid Size _____		(w x l x h)	
<b>Common Characteristics</b>					
Fluid Description NATURAL GAS		Service Sweet		Pressure Rating _____ Ansi	
CRN OG8841.5C	Code Stamp U		PP# _____		
Piping Body Material _____		Sched. Thick _____		C.A. _____	
Nominal Size _____		Internal Coating _____		Painted/Primed _____	
<b>Additional Characteristics for ESD Valve, Choke and Specialty Valve</b>					
Design Valve Type _____		MAWP _____		MDMT _____	
Trim _____		Internal Material _____		Actuator Type _____	
Fire Safe _____		WT Thickness _____		Bonnet Design _____	
<b>Additional Characteristics for Safety Valves</b>					
Capacity 188 SCFM		Service Date _____		Back Pressure _____	
Set Press. 80 psig		Pop Press. _____		Bonnet Design _____	
Inlet Size 1 in		Outlet Size 1 in		Trim Material STANDARD	
Inlet Connection M NPT		Outlet Connection F NPT		AND DISCHARGE PIPING	
Equip. Protected FE-1401		S/N XJ70398-09			
Equip. Protected _____		S/N _____			
Equip. Protected _____		S/N _____			
Equip. Protected _____		S/N _____			
<b>Additional Characteristics for Rupture Disc</b>					
Rupture Pressure _____		Capacity _____			
Disc Mat'l _____		Equipment Protected S/N _____			
		Equipment Protected S/N _____			
<b>Additional Characteristics for Piping and Manifold</b>					
Design Pressure _____		# Inlets _____		Inlet Diameter _____	
				Inlet Connection _____	
# Outlets _____		Outlet Diameter _____		Outlet Connection _____	
<b>Additional Characteristics for Meter Run</b>					
Type _____		Recorder Man. _____		Equipped with SCADA _____	
Chart Recorder _____		Straighting Vanes _____			
<b>Material Transfer Information</b>					
Transfer Recorded By: _____					
From LSD	Sec	Twp	Rge	W/	Date _____
Transfer Yard _____					
To LSD	Sec	Twp	Rge	W/	Receiving AFE _____
Facility _____					
<b>Additional Notes</b>					



UNIFIED  
VALVE LTD.

# MERCER VALVE INSPECTION AND TEST REPORT

BRANCH: Edmonton

Serial #: 413216 ✓

Work Order: 412252

Customer PO#: 510203

Date: 5/13/2008

Customer: PC COMPRESSION

Facility: NISKU

LSD:

PSV Location:

A#:

Cust Id:

Cust. Ref.:

Valve PO: 510203

## VALVE DATA

Man.: Mercer

Model: 91-17D51V06E1

Serial: 413216

Conn: Threaded

Inlet: 1 inch MNPT

Orifice: .122

Outlet: 1 inch FNPT

Set Pres: 80 PSI

Back Press: 0 PSI

Temp: 70 F

Cold/Diff Set Press: PSI

Cap: 188 SCFM

Lift Lever: ☐

Cap Assembly: Closed

Trim: Standard

Code Symbol: UV

CRN#: 0G8841.5C

## CUSTOMER INSTRUCTIONS

Valve Instruct. Factory Set

Instructions: Sold New Valve

Reset Required? ☐

RESET INFORMATION: New Pressure:

New Cold/Diff Set:

New Capacity:

## COMPONENTS INSPECTION

### Components Installed

### Components Removed

New Model #:

Spring #: 05-006

New Inlet Size:

Trim: Standard

Valve Medium: Gas / Air

Temperature: 70 F

Disassembly:

Inspection: Richard Anderson

Reassembly:

## FINAL TEST:

Test Medium:

Simmer:

Set Pressure:

Reseat:

Leakage: BPM

B.P. Test:

Cold/Diff Set:

Test Gauge:

Tested by:

## FINAL INSPECTION:

SEAL Installed: ☒

End Protectors Installed: ☒

Painted: ☐

Palletized: ☐

Ship Container: ☒

Flex Gaskets Supplied: ☐

Final Inspection: Richard Anderson

Customer Inspection

INSPECTION ID#: 11927

Comments:

PC COMPRESSION	
DATE	RECEIVED MAY 14 2008
P.O. #	510203
SIGNATURE:	<i>RA</i>
APPROVED BY Q.C. INSPECTOR	

## Valve, Piping and Fitting

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: PRESSURE SAFETY VALVE		Tag No. PSV-2101			
Facility: _____					
Location: LSD _____ Sec _____ Twp _____ Rge _____ W/ _____					
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: MERCER VALVE CANADA		Year Built 2008			
Equipment Condition: _____		Model No. 9117D51V07E1		Serial No. 439226	
Construction: _____					
Skid Weight: _____		Skid Size _____		(w x l x h)	
<b>Common Characteristics</b>					
Fluid Description NATURAL GAS		Service Sweet _____		Pressure Rating _____ Ansi	
CRN OG8841.5C		Code Stamp U _____		PP# _____	
Piping Body Material _____		Sched. Thick _____		C.A. _____	
Nominal Size _____		Internal Coating _____		Painted/Primed _____	
<b>Additional Characteristics for ESD Valve, Choke and Specialty Valve</b>					
Design Valve Type _____					
MAWP _____		@Max Temp. _____		MDMT _____	
Trim _____		Internal Material _____		Actuator Type _____	
Fire Safe _____		WT Thickness _____		Bonnet Design _____	
<b>Additional Characteristics for Safety Valves</b>					
Capacity 329 SCFM _____		Service Date _____			
Set Press. 150 psig _____		Pop Press. _____		Back Pressure _____	
Inlet Size 1 in _____		Outlet Size 1 in _____		Bonnet Design _____	
Inlet Connection M NPT		Outlet Connection F NPT		Trim Material STANDARD	
Equip. Protected CA-210		S/N 08F0A301K		AND PIPING	
Equip. Protected CA-220		S/N 08G0A366K		AND PIPING	
Equip. Protected _____		S/N _____			
Equip. Protected _____		S/N _____			
<b>Additional Characteristics for Rupture Disc</b>					
Rupture Pressure _____		Capacity _____			
Disc Mat'l _____		Equipment Protected S/N _____			
		Equipment Protected S/N _____			
<b>Additional Characteristics for Piping and Manifold</b>					
Design Pressure _____					
# Inlets _____		Inlet Diameter _____		Inlet Connection _____	
# Outlets _____		Outlet Diameter _____		Outlet Connection _____	
<b>Additional Characteristics for Meter Run</b>					
Type _____		Recorder Man. _____		Equipped with SCADA _____	
Chart Recorder _____		Straighting Vanes _____			
<b>Material Transfer Information</b>					
Transfer Recorded By: _____					
From LSD _____ Sec _____ Twp _____ Rge _____ W/ _____		Date _____			
Transfer Yard _____					
To LSD _____ Sec _____ Twp _____ Rge _____ W/ _____					
Facility _____		Receiving AFE _____			
<b>Additional Notes</b>					



UNIFIED  
VALVE LTD.

# MERCER VALVE INSPECTION AND TEST REPORT

BRANCH: Edmonton

Serial #: 439226 ✓

Work Order: 412687

Customer PO#: 510568-00

Date: 7/25/2008

Customer: PC COMPRESSION

Facility: NISKU

LSD:

PSV Location:

A#:

Cust Id:

Cust. Ref.:

Valve PO: 510568-00

## VALVE DATA

Man.: Mercer

Model: 91-17D51V07E1

Serial: 439226

Conn: Threaded

Inlet: 1 inch MNPT

Orifice: .122

Outlet: 1 inch FNPT

Set Pres: 150 PSI ✓

Back Press: 0 PSI

Temp: 70 F

Cold/Diff Set Press: PSI

Cap: 329 SCFM ✓

Lift Lever: ☐

Cap Assembly: Closed

Trim: Standard

Code Symbol: UV

CRN#: 0G8841.5C

## CUSTOMER INSTRUCTIONS

Valve Instruct. Factory Set

Instructions: Sold New Valve

Reset Required? ☐

RESET INFORMATION: New Pressure:

New Cold/Diff Set:

New Capacity:

## COMPONENTS INSPECTION

### Components Installed

### Components Removed

PC COMPRESSION	
DATE	RECEIVED JUL 25 2008
P.O. #	510568-00 JAW
SIGNATURE:	SPC
APPROVED BY Q.C. INSPECTOR	

New Model #:

Spring #: 05-007

New Inlet Size:

Trim: Standard

Valve Medium: Gas / Air

Temperature: 70 F

Disassembly:

Inspection: Joe Parsons

Reassembly:

## FINAL TEST:

Test Medium:

Simmer:

Set Pressure:

Reseat:

Leakage: BPM

B.P. Test:

Cold/Diff Set:

Test Gauge:

Tested by:

## FINAL INSPECTION:

SEAL Installed: ☒

End Protectors Installed: ☒

Painted: ☐

Palletized: ☐

Ship Container: ☒

Flex Gaskets Supplied: ☐

Final Inspection: Joe Parsons

Customer Inspection

INSPECTION ID#: 12435

Comments:

# PRESSURE VESSELS HEAT EXCHANGERS AND CONDENSERS

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: AIR COOLED EXCHANGER			Tag No.		E-510
Facility: _____					
Location: LSD _____		Sec _____	Twp _____	Rge _____	W/ _____
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____		_____	
Manufacturer: GLOBAL HEAT TRANSFER		Year Built		2008	
Equipment Condition: _____		Model No. GHT-450SC		Serial No. 80504014	
Construction: _____		Purchase Order # _____			
Skid Weight: _____		Skid Size _____		(w x l x h)	
Common Characteristics					
Fluid Description: NATURAL GAS Service		Sweet _____		Code Stamp _____	
Prov. Reg. No.(A#): _____		CRN OH7426.213		_____	
Shell MAWP: _____		402 psig _____	@maxTem _____	250 °F _____	MDMT -20 _____
Shell Mat'l: _____		Shell Thick _____		Shell CA _____	
Head Mat'l: _____		Head Thick _____		Head CA _____	
Nozzle Type: _____		Nozzle Rtg _____		Ansi _____	
Nozzle Mat'l: _____		Nozzle Thick _____		Nozzle CA _____	
X-Ray: _____		Stress Relief _____		_____	
# Manways: _____		#Inspect.ports _____			
Volume: _____		Design Flow _____		_____	
Diameter: _____		Length/Height _____		_____	
Support Type: _____		Orientation _____		_____	
Internal Coating: _____		Internal Coating /Cladding Type _____			
Insulated: _____		Insulation Thickness _____		Painted / Primed _____	
Additional Characteristics for Condenser, Shell&Tube Exchanger, and Air Cooled Exchanger					
TEMA Nomenclature _____		Shell Side Fluid _____		Service _____	
# Passes _____		#Banks _____		Tube Side Fluid _____	
Tube MAWP _____		@max Temp _____		TubeMDMT _____	
Tube Mat'l _____		Tube Thick _____		Tube CA _____	
Channel or Header Box Material _____		Thickness _____		CA _____	
Additional Characteristics for Plate and Spiral Coil Exchangers					
Hot Side Fluid _____		Description _____		Service _____	
Cold Side Fluid _____		Description _____		Service _____	
Plate/Coil Mat'l _____		Plt/Coil Thick _____		Plate/Coil CA _____	
Material Transfer Information					
Transfer Recorded By: _____		Date _____			
From LSD _____		Sec _____	Twp _____	Rge _____	W/ _____
Transfer Yard _____					
To LSD _____		Sec _____	Twp _____	Rge _____	W/ _____
Facility _____		Receiving AFE: _____			
Additional Notes					

Ensure Package ID Number is Identified on ALL Individual Equipment Templates



ALBERTA MUNICIPAL AFFAIRS  
ABSA - the pressure equipment authority  
200, 4208 - 97 Street  
Edmonton AB T6E 5Z9

# MASTER COPY

## MANUFACTURER'S DATA REPORT FOR MINIATURE PRESSURE VESSEL DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR D'APPAREILS SOUS PRESSION

Upon shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.

Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit être envoyé au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression.

Manufactured by Construit par	Name and address of Manufacturer/ Nom et adresse du constructeur GLOBAL HEAT TRANSFER LTD., 7716-67 STREET, EDMONTON ALBERTA		
Manufactured for Construit pour	Name and address of Purchaser or Consignee/ Nom et adresse du client ou de son représentant UNKNOWN	DATE RECEIVED JUL 02 2008	
Ultimate owner Utilisateur	Name and address/ Nom et adresse UNKNOWN	P.O. # 570200-00 JAW	
Location of installation Lieu d'installation	Name and address/ Nom et adresse UNKNOWN	SIGNATURE: <i>SPC</i>	
Pressure vessel/ Appareil		APPROVED BY Q.C. INSPECTOR	
Type/ Genre Category H Pressure Fitting (450 Gas Threaded)	Overall Length/ Longueur totale 622.3mm	Serial No./ N° de série (Series 450JUN08B) 080504012, 080504013, 080504014 080504015, 080504016, 080504017 080504018, 080504019, 080504020 080504021, 080504022	Year built/ Année de fabrication 2008
Provincial Registration No. - C.R.N./ N° d'enregistrement provincial - N.E.C. OH 7426.213		Drawing No./ N° de dessin 21-80001 REV 2	

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code.  
Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME.

The design, construction and workmanship conform to CSA B51. La conception, la construction et la façon sont conformes à ACNOR B51.	ASME Section VIII	Division 1	Addenda/Supplément 2007	Code case No. N° de cas 2148
Manufacturer's partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this report. Les rapports partiels du constructeur adéquatement identifiés et signés par les inspecteurs autorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport:				
Names of parts/ Nom de la composante	Item No./ NO d'item	Manufacturer's Name/ Nom du constructeur	Identifying Stamp/ Estamps d'identification	

### Shell/ Virole

Description	Material Matériau	Thickness Épaisseur	Corr. Allow. Surépais. de corr.	Diameter Diamètre	Longitudinal Joints Joints longitudinaux			P.W.H.T. Traitement therm.		Girth Joints Joints de circonférence		Number of courses Nombre de sections
					Type	R.T. Radiog.	Efficiency Efficacité	Temp.	Time Durée	Type	R.T. Radiog.	

### Heads/ Têtes

Description	Material Matériau	Min. Thickn. Épais. minim.	Corr. Allow. Surép. Corr.	Crown Radius Rayon couron.	Knuckle Radius Petit rayon	Ellipse Ratio Repp. ellipse	Conical Apex Angle Angle conique	Hemisph. Radius Ray. Hémisph.	Flat Diameter Diam. plat	Side to pressure Côte sous pression
88.9mm (3.5") Channel (Manifold)	SB221 6061 T6	4.8mm (.188")	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
End Cap	SB209 6061 T6	9.5mm (.374")	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Removable bolts used (describe other fastenings) Boulons amovibles utilisés (décrire tout autre attache)					Mat'l Spec./ Spéc. du mat.			Grade		Size/ Dimension

### Pressure - Temperature/ Pression - température

Pressure Vessel Part Partie de l'appareil	Constructed for max. allowable working pressure Construit pour une pression maximale de marche permise	At max. temp. A une temp. max	Minimum design metal temp. Temp. min.	Test pressure (hydro-pneumatic or combination) Pression d'épreuve (hydro-pneumatique ou combinaison)
Complete Unit	402 PSI	250 F	-20 F	531 PSI

**Tube Section/ Faisceau tubulaire**

Tubeshell/ Plaque tubulaire	Material/ Matériau	Diameter/ Diamètre	Nominal Thickness Épaisseur nominale	Corr. Allow. Surépais. corrosion	Attachment Mode d'attachement
Tube material/ Matériau des tubes	Diameter/ Diamètre	Nominal Thickness (gauge) Épaisseur nominale (calibre)	Number/ Nbre	Type (Straight or U) Type (Droit ou U)	Heating Surface Surface de chauffe
SB221/SB209 3003	N/A	N/A	N/A	N/A	N/A

**Jacket/ Chemise**

Type of jacket/ Genre de chemise	Jacket closure Fermeture de chemise	Proof Test Pression d'épreuve	Heating Surface Surface de chauffe	Sketch/ Schéma

**Safety Valve Outlets/ Soupapes de sûreté**

Number/ Nombre	Dimension	Location/ Endroit

**Nozzles and Openings/ Tubulures et ouvertures**

Purpose/ But	Number Nombre	Dimension	Type	Material Matériau	Nominal Thickness Épaisseur nominale	Reinforcement material Matériau de renfort	How attached Genre d'attaches	Location/ Endroit
Inlet / Outlet	2	1.6" NPT	Half Coupling	SB22 6061 T6	0.3"	N/A	UW-16.1 (bb)	Manifold End
Drain	1	0.25" NPT	Half Coupling	SB22 6061 T6	0.3"	N/A	UW-16.1 (bb)	Manifold Top

**Supports/ Supports**

Skirt/ Jupe Yes/ Oui No/ Non	Lugs/ Oreilles No./ Nbre	Legs/ Pieds No./ Nbre	Other/ Autres (Description)	Attached/ Attaches (Where and How/ Méthode et endroit)
<input type="checkbox"/> <input type="checkbox"/>				

**Remarks/ Observations (Cubical capacity/ Volume)**

Refer Dwg 638001 Rev 0  
PO# SJ3-170577

**Certificate of Compliance/ Certificat de conformité**

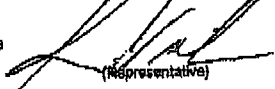
We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51.

Nous certifions que les données de la déclaration de conformité sont correctes et que l'appareil a été construit en accord avec l'enregistrement provincial ci-dessous et les exigences de la norme ACNOR B51.

Provincial Registered Design  
Enregistrement provincial OH 7426-213

Manufacturer  
Constructeur GLOBAL HEAT TRANSFER LTD.

Signature



(Representative)

Date

5 Jun 08

Signature

Date

(Certified individual)

## Valve, Piping and Fitting

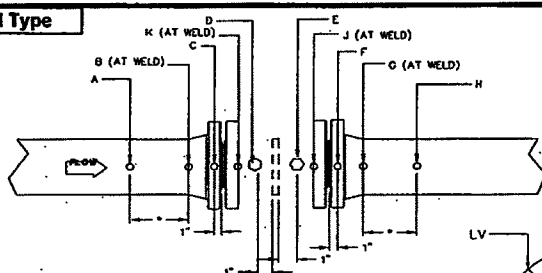
Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: METER RUN		Tag No. FE-1401			
Facility: _____					
Location: LSD _____ Sec _____ Twp _____ Rge _____ W/ _____					
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: NUFLO		Year Built 2008			
Equipment Condition: _____		Model No. 40422-34221		Serial No. XJ70398-09	
Construction: _____					
Skid Weight: _____		Skid Size _____		(w x l x h)	
<b>Common Characteristics</b>					
Fluid Description NATURAL GAS		Service Sweet		Pressure Rating 600# Ansi	
CRN OF01120.213		Code Stamp _____		PP# _____	
Piping Body Material SA-106 B		Sched. Thick SCH 80		C.A. _____	
Nominal Size 2 in		Internal Coating N		Painted/Primed Y	
<b>Additional Characteristics for ESD Valve, Choke and Specialty Valve</b>					
Design Valve Type _____		MAWP _____		MDMT _____	
Trim _____		Internal Material _____		Actuator Type _____	
Fire Safe _____		WT Thickness _____		Bonnet Design _____	
<b>Additional Characteristics for Safety Valves</b>					
Capacity _____		Service Date _____		Back Pressure _____	
Set Press. _____		Pop Press. _____		Bonnet Design _____	
Inlet Size _____		Outlet Size _____		Trim Material _____	
Inlet Connection _____		Outlet Connection _____			
Equip. Protected _____		S/N _____			
Equip. Protected _____		S/N _____			
Equip. Protected _____		S/N _____			
Equip. Protected _____		S/N _____			
<b>Additional Characteristics for Rupture Disc</b>					
Rupture Pressure _____		Capacity _____			
Disc Mat'l _____		Equipment Protected _____		S/N _____	
		Equipment Protected _____		S/N _____	
<b>Additional Characteristics for Piping and Manifold</b>					
Design Pressure _____		# Inlets _____		Inlet Diameter _____	
				Inlet Connection _____	
# Outlets _____		Outlet Diameter _____		Outlet Connection _____	
<b>Additional Characteristics for Meter Run</b>					
Type Junior		Recorder Man. _____		Equipped with SCADA N	
Chart Recorder N		Straightening Vanes Y			
<b>Material Transfer Information</b>					
Transfer Recorded By: _____					
From LSD _____ Sec _____ Twp _____ Rge _____ W/ _____		Date _____			
Transfer Yard _____					
To LSD _____ Sec _____ Twp _____ Rge _____ W/ _____		Receiving AFE _____			
Facility _____					
<b>Additional Notes</b>					
2" 600# SCH 80 SINGLE CHAMBER					

## Meter Tube Calibration Record

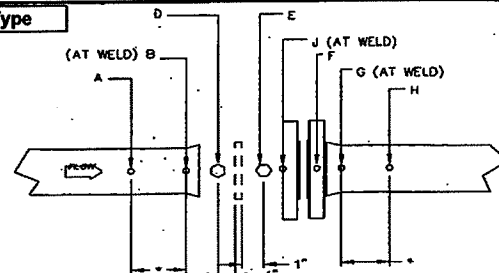
## General Specifications

Customer:		Date:	MARCH 05/ 2007
Location:	STOCK	P.O. Number:	
Serial No.	XJ70398-09	Work Order No.	XJ70398
Assembly Part No.	[ 40422 ] - 0094	Part No.	40422-34221
Orifice Fitting:	2" 600# SCH. 80 SINGLE CHAMBER	Meter Tube Type No.	2
Straightening Vane:		Yes	X No

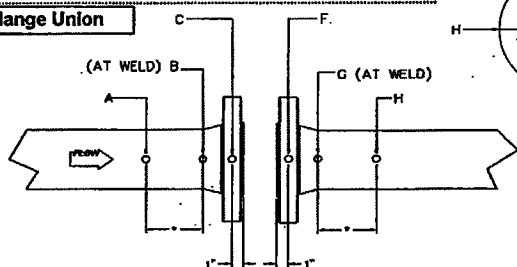
## Type 1 Flanged Type



## Type 2 Flangeweld Type



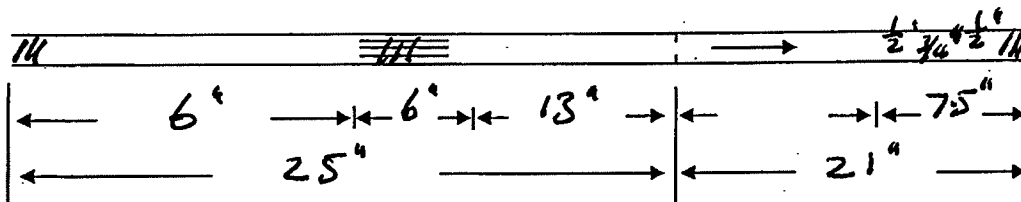
## Type 3 Orifice Flange Union



**Type 4 weldneck Type Valve or Door**  
Check Location Point A-B-D on Upstream Tube,  
Point E-G-H on Downstream Tube

\*Cross section 'A' and 'H' shall be one pipe diameter  
except if such Cross Section falls within the lifting or weld  
it shall be made 1" inside the pipe

Location	Upstream Meter Tube					Downstream Meter Tube				
	A	B	C	D	K	E	F	G	H	J
V	1.936	1.943		1.939		1.939	1.944	1.934	1.936	1.932
LV	1.938	1.944		1.939		1.939	1.943	1.932	1.935	1.934
RV	1.936	1.941		1.939		1.939	1.944	1.940	1.936	1.933
H	1.937	1.936		1.939		1.939	1.943	1.929	1.938	1.930
Average	1.936	1.941		1.939		1.939	1.943	1.933	1.936	1.932
Upstream Mean Average to Stamp on I.D. Plate			1.939			Downstream Mean Average to Stamp on I.D. Plate			1.939	



AGA/API Figure	3C	BETA	0.70	Meter Tap Location	Upstream	1"	Downstream	1"
Remarks:	68°F				Inspector: J.D. Perryman			

# ROTATING MECHANICAL PUMPS

Data Collected By: _____		Entry Date: _____		Package ID # I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: PUMP		Tag No. P-610			
Facility: _____					
Location: LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: SANDPIPER		Year Built 2008			
Equipment Condition: _____		Model No. G1FB1ABTXNSX00		Serial No. 1585072	
Construction: _____					
Skid Weight: _____		Skid Size _____ (w x l x h)			
Common Characteristics					
Fluid Description NAT. GAS/LIQUID		Service Sweet		Orientation Horizontal	
Design Cap 45 gpm		Min.Suct.Head _____			
Driven By Motor		Pump MAWP 100 psig		Pump HP Rating _____	
Rated Head _____		Rotation _____ (viewed from Drive End)			
# Stages _____		Max Frame Speed _____ RPM			
Sheave Type _____		Sheave Size _____		Belt Size _____	
Additional Characteristics for Reciprocating Pumps					
# Cylinders _____		Plunger Size _____		Stroke _____	
Valve Manufacturer _____		Liner _____			
Additional Characteristics for Rotary Pumps					
Rotary Pump Type _____		Rotor Mount _____			
Additional Characteristics for Centrifugal Pumps					
Casing Type _____		Csg Mat'l _____			
Csg MAWP _____		Internal Coating _____			
Additional Characteristics for Controlled Volume Pumps					
# Cylinders _____		Displacement _____			
Material Transfer Information					
Transfer Recorded By: _____		Date _____			
From LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
Transfer Yard _____					
To LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
Facility _____		Receiving AFE: _____			
Additional Notes					

Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates

## ELECTRICAL

Data Collected By: _____		Entry Date _____		Package ID# I-987	
Equipment Class _____		Purchase Order # 8400005282			
Equipment Description: SCROLL VFD PANEL				Tag No. _____	
Facility: _____					
Location: LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
Cost Center: _____		Acquis Value _____		Acquis Date _____	
Equipment Status: _____		Ownership Status _____			
Manufacturer: PYRAMID CORPORATION		Year Built 2008			
Equipment Condition: _____		Model No. SCROLL VFD		Serial No. A131-9196	
Construction: _____					
Skid Weight: _____		Skid Size _____ (w x l x h)			
<b>Common Characteristics</b>					
Size / HP Rating: _____		Service _____			
Elec. Class: CLASS I		Elec. Division DIV II		Elec Group _____	
Primary Voltage: 480/120VAC/24VDC		Primary Current _____		Winding Config. _____	
No. of Phases: 3		Frequency 60 Hz			
Current: 60/5/30 Amps		Enclosure Style _____		Enclosure Class _____	
Operating Temp.: _____					
<b>Additional Characteristics for MCC and Switchgear</b>					
Main / Horizontal Bus _____		Material _____		Rating _____	
Vertical Bus _____		Material _____		Rating _____	
Enclosure EEMAC: _____					
Main Breaker Size: _____		Metering _____		Starter _____	
<b>Additional Characteristics for Transformers</b>					
Secondary Voltage: _____		Secondary Current _____		Winding Config. _____	
Power Factor: _____		Efficiencies _____			
Rating: _____		Tap Voltages: _____		Insulating Liquid _____	
Excitation _____					
<b>Additional Characteristics for UPS Systems</b>					
kVA Rating: _____		Input Voltage _____		Output Voltage _____	
<b>Material Transfer Information</b>					
Transfer Recorded By: _____				Date _____	
From LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
Transfer Yard _____					
To LSD _____		Sec _____		Twp _____	
		Rge _____		W/ _____	
Facility _____				Receiving AFE: _____	
<b>Additional Notes</b>					

Ensure Package ID Number is Identified on ALL Individual Equipment Item Templates