



PROJECT TITLE:	PETRO-CANADA HORIZON PROJECT
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VENDORS NAME:	Dresser-Rand
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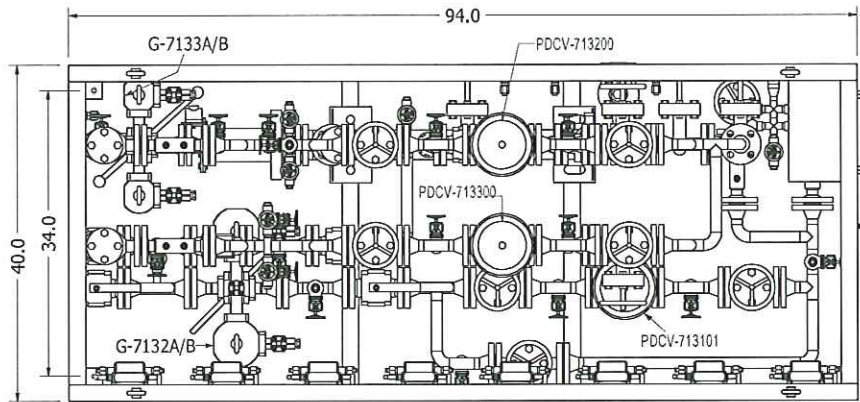
DOCUMENT TITLE:	Arrangement - Gas Seal System -- (supplier)
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VENDORS DOCUMENT NO:	CGS-0X1-000-001
VENDORS REVISION NO:	C
DATE SUBMITTED	11/18/2008

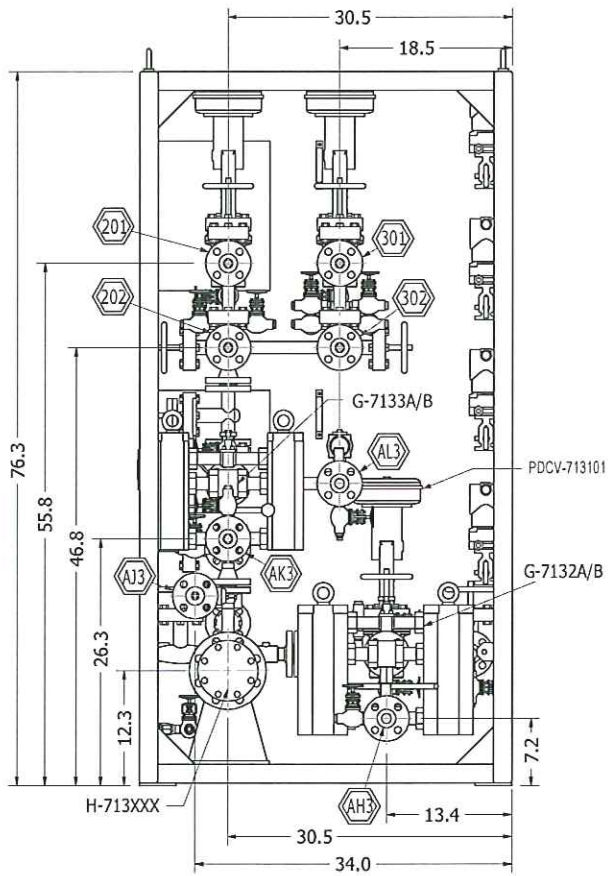
<b>PETRO-CANADA Supplier Document Review</b>	
Permission to proceed does not constitute acceptance or approval of Design Detail, Calculations, Analysis, Test Methods or Materials developed OR selected by SUPPLIER, and does NOT relieve SUPPLIER from FULL compliance with Contractual Obligations	
<input type="checkbox"/> 1 Work May Proceed	
<input type="checkbox"/> 2 Revise & Resubmit. Work may Proceed subject to incorporation of changes	
<input type="checkbox"/> 3 Revise & Resubmit. Work may not Proceed	
<input type="checkbox"/> 4 Review not required. Work may proceed	
By: _____	Date: _____
Discipline: _____	
Equipment No. <b>J-71011</b>	
MR No. <b>7 1 0 M R J 0 0 0 1</b>	
1017	<b>V P — B 0 2 — 7 1 0 — J — 0 1 A C — 0 0 0 6 0 C</b>

NO: 084PG066838  
REV: C

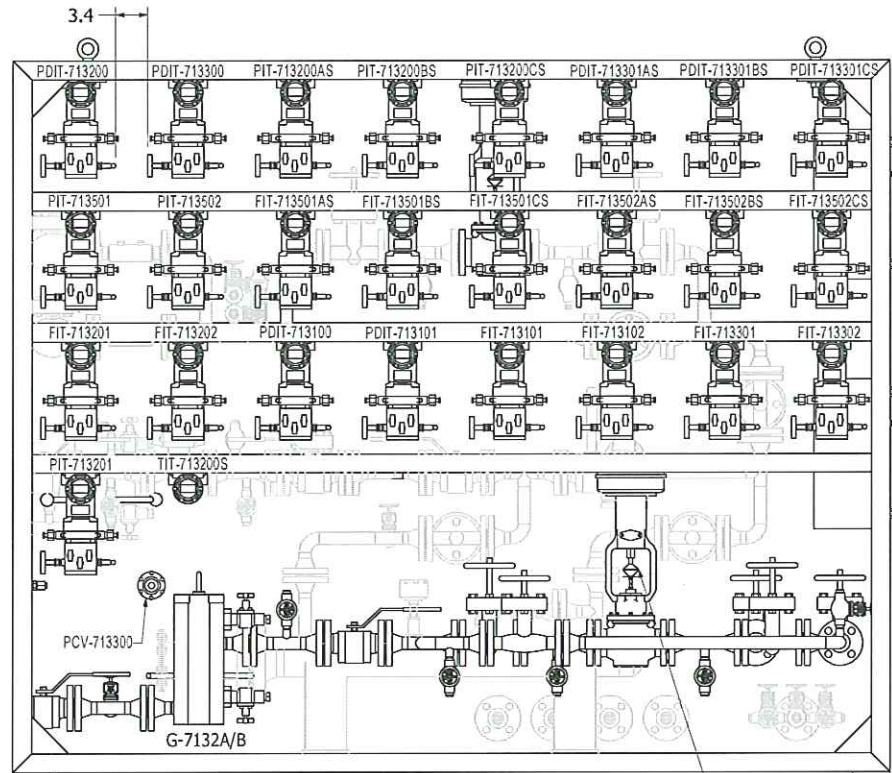
Bantrel: 1017		Job No.: 33125				
SUPPLIER DOCUMENT STAMP						
1. <input type="checkbox"/> WORK MAY PROCEED.						
2. <input type="checkbox"/> REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED.						
3. <input type="checkbox"/> STOP WORK PER ATTACHED WRITTEN INSTRUCTIONS.						
4. <input type="checkbox"/> REVIEW NOT REQUIRED. WORK MAY PROCEED.						
PERMISSION TO PROCEED DOES NOT CONSTITUTE ACCEPTANCE OR APPROVAL OF DESIGN DETAILS, CALCULATIONS, ANALYSES, TEST METHODS OR MATERIALS DEVELOPED OR SELECTED BY THE SUPPLIER AND DOES NOT RELIEVE SUPPLIER FROM FULL COMPLIANCE WITH CONTRACTUAL OBLIGATIONS						
Revised	B	C	J	L	M	P
DISCIPLINE						
EQUIPMENT No: J-71011						
VP	F04710J01AC0011					REV. 03
RE:	DATE: 09.09.08					



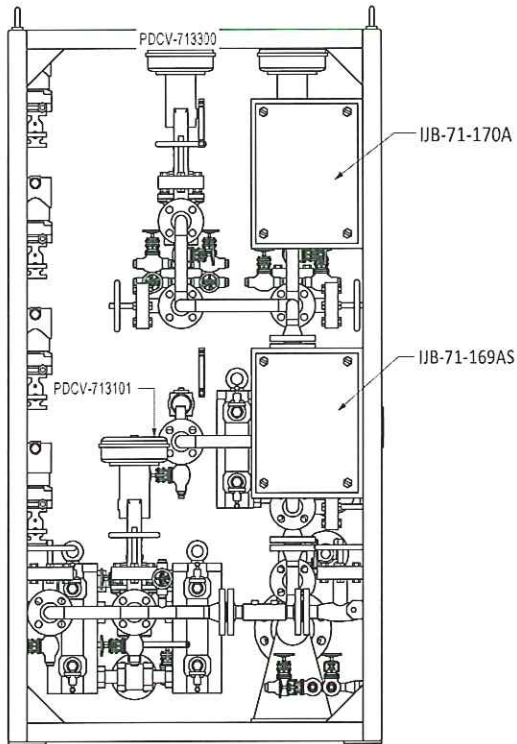
TOP VIEW



LEFT VIEW



FRONT VIEW (INSTRUMENT ONLY)



RIGHT VIEW

ISSUED FOR REVIEW  
PURPOSES ONLY

NOV 13 2008

- AH3 SEAL SUPPLY GAS, 1/2" CL300# RF FLANGE
- 101 D.E. BUFFER GAS, 1/2" CL300# RF FLANGE
- 102 N.D.E. BUFFER GAS, 1/2" CL300# RF FLANGE
- AK3 SEAL BARRIER/SEPARATION SUPPLY, 1/2" CL300# RF FLANGE
- 201 D.E. SEPARATION SEAL SUPPLY, 1/2" CL300# RF FLANGE
- 202 N.D.E. SEPARATION SEAL SUPPLY, 1/2" CL300# RF FLANGE
- AL3 BACKUP N2 SUPPLY, 1/2" CL300# RF FLANGE
- 301 D.E. SEAL BARRIER GAS, 1/2" CL300# RF FLANGE
- 302 N.D.E. SEAL BARRIER GAS, 1/2" CL300# RF FLANGE
- 401 BALANCE CHAMBER REFERENCE, 1/2" CL300# RF FLANGE
- 501 D.E. SEAL LEAKAGE, 1/2" CL300# RF FLANGE
- 502 N.D.E. SEAL LEAKAGE, 1/2" CL300# RF FLANGE
- 503 VENT TO FLARE, 1/2" CL300# RF FLANGE
- AJ3 INSTRUMENT AIR, 1/2" CL300# RF FLANGE
- 801 VENT TO FLARE, 1/2" CL300# RF FLANGE

NOTES:

- ALL COMPRESSION TYPE FITTINGS SHALL BE EITHER HOKE OR GYROLOC IN 316 STAINLESS STEEL.
- ALL TUBING TO BE 316 STAINLESS STEEL ASTM A-269, MAXIMUM HARDNESS 80 Rb.
- ALL PIPE SHALL BE 316/316L STAINLESS STEEL SCH.80
- ALL ITEMS WITH TAG NUMBERS REQUIRE LABELING AS INDICATED. ALL LETTERING TO BE ON WHITE LAMACOID WITH BLACK CORE. SIS/CCS APPLICATIONS HAVING WHITE LAMACOID WITH RED CORE ARE TO BE MOUNTED USING SS MACHINE SCREWS.
- PIPE THREADS TO BE SEALED WITH SWAK ANAEROBIC PIPE THREAD SEALANT.
- ALL INSTRUMENTS TO BE LABELED WITH STAINLESS STEEL TAGS, ATTACHED WITH BRAIDED STAINLESS STEEL WIRE.
- A STAINLESS STEEL IDENTIFICATION TAG BEARING THE DESCRIPTION NUMBER SHALL BE ATTACHED TO EACH FLANGE/ BULKHEAD WITH BRAIDED STAINLESS STEEL WIRE.
- ALL STEEL AND INSTRUMENT SUPPORTS SHALL BE SUITABLE FOR CLIENT AMBIENT CONDITIONS.
- TOLERANCES ON CONNECTION LOCATIONS : ±1/8".
- ALL INSTRUMENT TAG NO. NUMERICAL PARTS SHALL HAVE PREFIX AND SUFFIX "S" WHERE MARK I.E. FIT-713501AS
- TRANSMITTER TO HAVE RED CAP IF IN SIS/CCS APPLICATION

Petro-Canada Montreal Horizon Project  
Equipment Name: Wet Gas Compressor  
P.O. Number : 1017-710-PO-J-0001AC  
Contractor: Bantrel  
Bantrel Ref: 1017  
Dresser-Rand Contract: 33125

Dresser-Rand Drawing# CGS-0X1-000-001

ISSUED FOR REVIEW PURPOSES, SUBJECT TO  
CHANGE PENDING FINAL DESIGN.

REVISION: C DATE: 19/09/2008 BY: CLADARAN CHKD: DSTRASSER ECN NO:

REVISION NOTE:

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DIMENSIONS IN  
INCHES



A3/B3

S.T.  
Nov 13/08  
Nov. 13, 08

BALLOON NO:

**FLOWSERVE**  
Flow Solutions Division

FORM REF:

SIMILAR TO:

SCALE: NTS

DRAWN: HENG HU

DATE: 19/09/2008

CHKD: DSTRASSER

JOB REF:

PART: DR PC BANTREL LAYOUT

MATL:

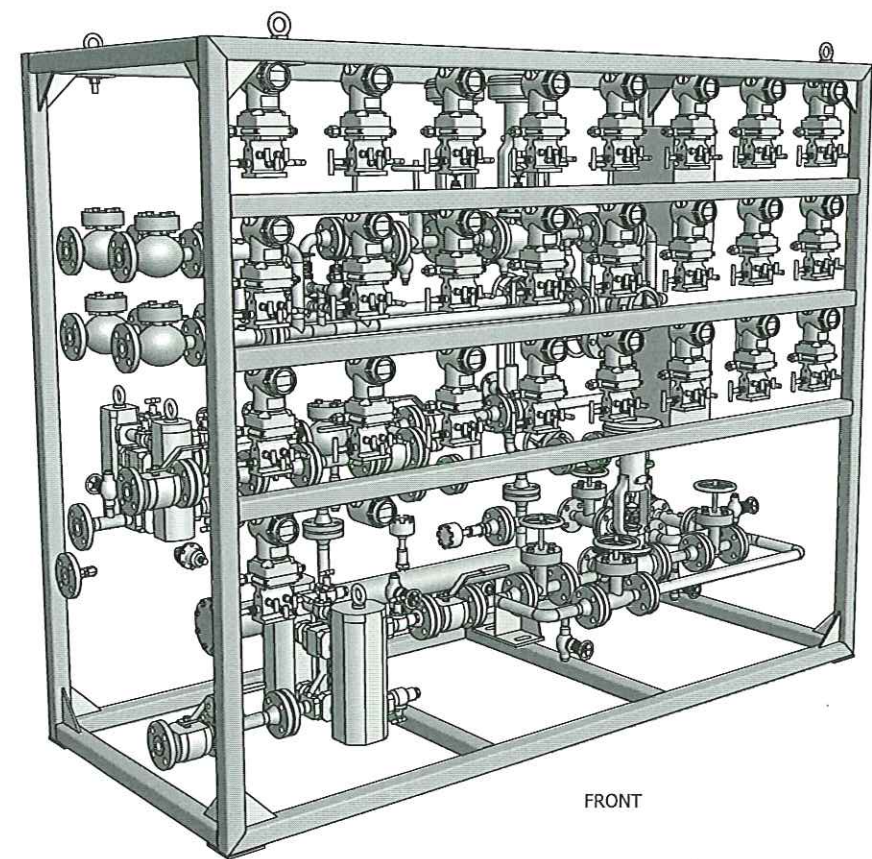
DRAWING NO: SHEET 2A OF 4

084PG066838

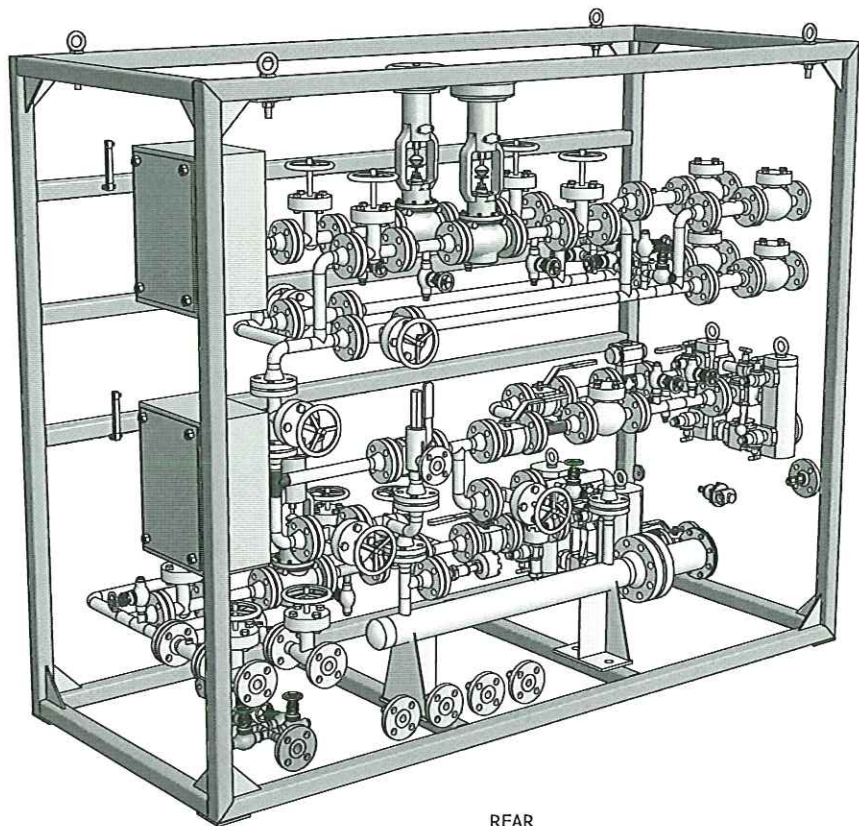
REV:

C

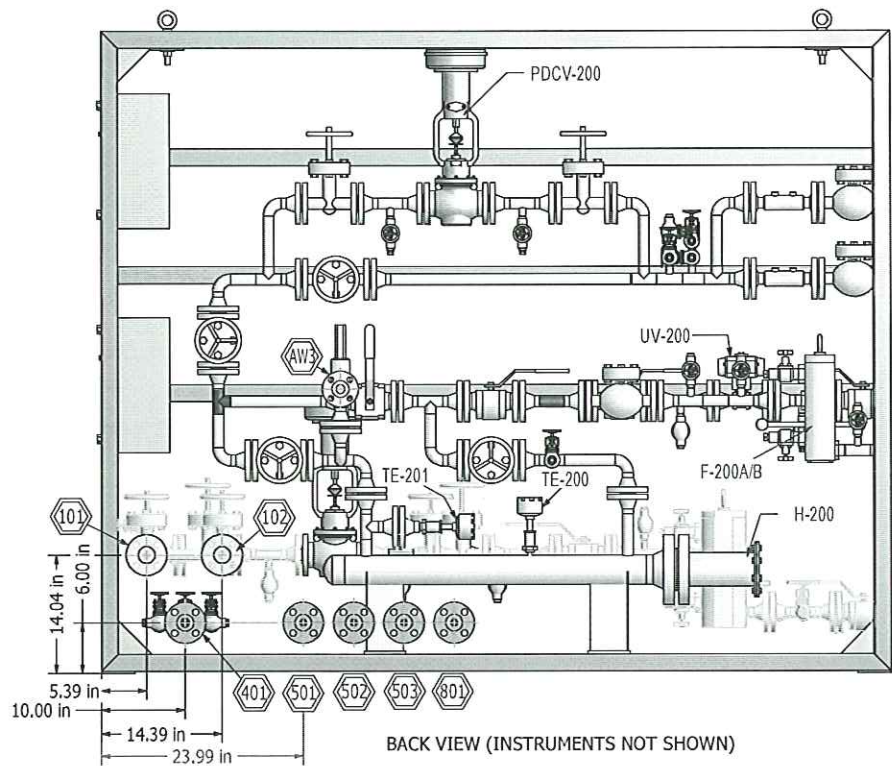




FRONT



REAR



BACK VIEW (INSTRUMENTS NOT SHOWN)

ISSUED FOR REVIEW  
PURPOSES ONLY


NOV 13 2008

Bantrel: 1017		Job No.: 33125				
SUPPLIER DOCUMENT STAMP						
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Reviewed	B	C	J	L	M	P
DISCIPLINE						
EQUIPMENT No.: J-71011						
VP	F04	710	01	AC	0011	REV. 00
RE:		DATE: 09.09.08				

Petro-Canada Montreal Horizon Project  
Equipment Name: Wet Gas Compressor  
P.O. Number : 1017-710-PO-J-0001AC  
Contractor: Bantrel  
Bantrel Ref: 1017  
Dresser-Rand Contract: 33125

Dresser-Rand Drawing# CGS-0X1-000-001

ISSUED FOR REVIEW PURPOSES, SUBJECT TO CHANGE  
PENDING FINAL DESIGN.

REVISION: C	DATE: 12/11/2008	BY: CLADARAN	CHKD: DSTRASSER	ECN NO:
REVISION NOTE:				
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J.T.  
Nov 13/08  
*[Signature]*  
Nov 13/08

BALLOON NO:



FORM REF:

SIMILAR TO:

SCALE: NTS

DRAWN: HENG HU

DATE: 12/11/2008

CHKD: DSTRASSER

JOB REF:

PART: DR PC BANTREL LAYOUT

MATL:

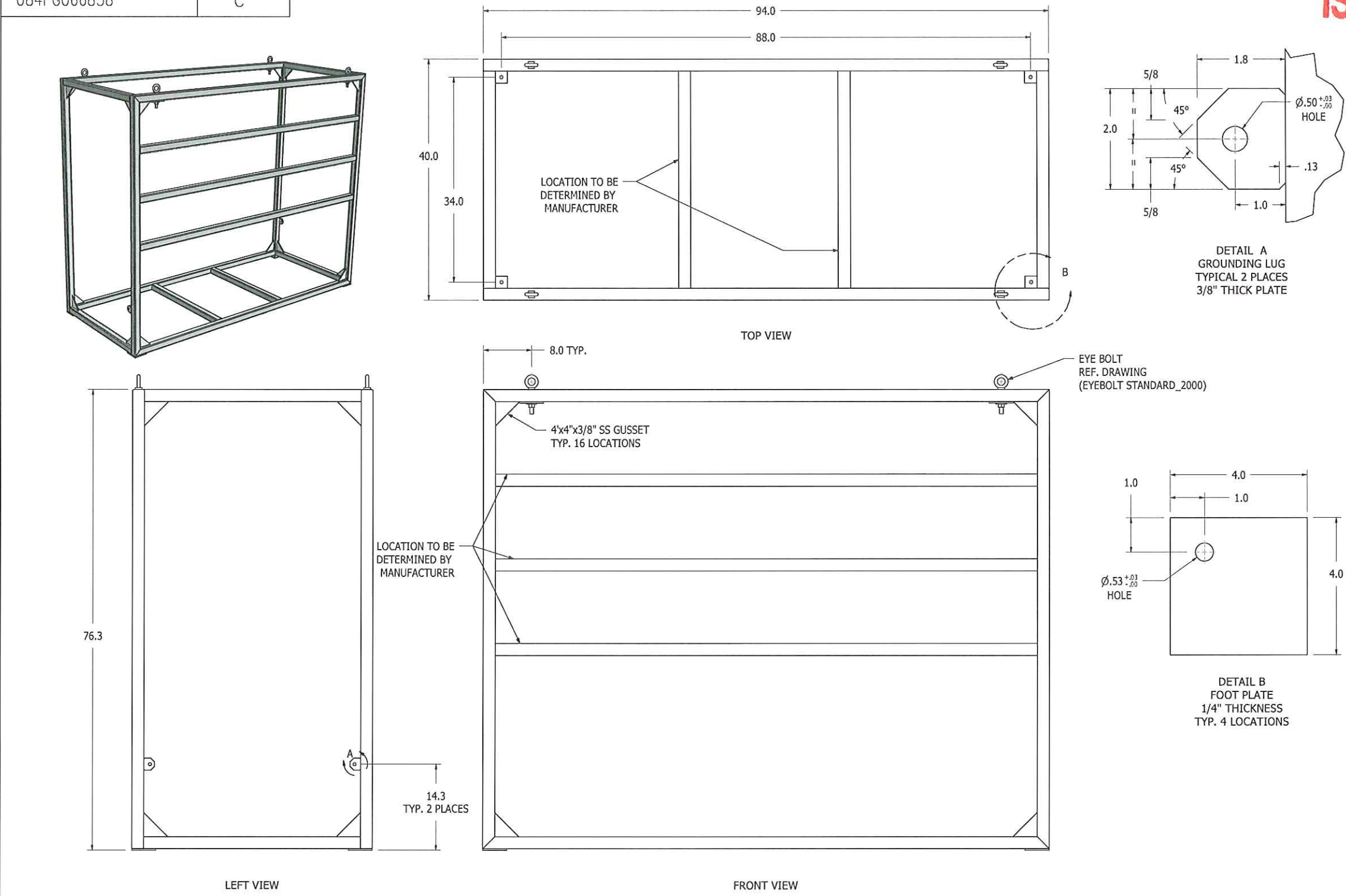
DRAWING NO: SHEET 2B OF 4

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REV:

C





**NOTES:**

1. ALL CORNERS TO BE BROKEN.
2. PANEL MATERIAL TO BE 304 STAINLESS STEEL.
3. UNLESS NOTED OTHERWISE, ALL WELDS TO BE 1/8" CONTINUOUS FILLET. FOR WELDING USE AWS E/ER 304 OR 304L FILLER METAL.
4. ALL DIMENSIONAL TOLERANCES SHALL BE ±1/8" UNLESS OTHERWISE SPECIFIED.
5. ADDITIONAL SUPPORTS WILL BE PROVIDED AS REQUIRED

Petro-Canada Montreal Horizon Project  
Equipment Name: Wet Gas Compressor  
P.O. Number : 1017-710-PO-J-0001AC  
Contractor: Bantrel  
Bantrel Ref: 1017  
Dresser-Rand Contract: 33125

Dresser-Rand Drawing# CGS-0X1-000-001

ISSUED FOR REVIEW PURPOSES, SUBJECT TO CHANGE PENDING FINAL DESIGN.

<b>Bantrel: 1017</b>		<b>Job No.: 33125</b>				
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Reviewed	<b>B</b>	<b>C</b>	<b>J</b>	<b>L</b>	<b>M</b>	<b>P</b>
DISCIPLINE						
EQUIPMENT No.: J-71011						
VP	F04710J01AC0011					REV. 00
RE:		DATE: 09.09.08				