

# SUPPLIER DOCUMENT COVER SHEET

**MCDERMOTT**

**233124 PSC Modifications**  
**Imperial Oil Resources Limited**



<b>Supplier Name:</b>	<b>PENTICTON FOUNDRY LTD.</b>
<b>Purchase Order Title:</b>	<b>K2 CWI PIPING</b>
<b>Equipment / Tag Number(s):</b>	<b>SP-K3493</b>
<b>Supplier Document No:</b>	<b>1397868-A05-0010</b>

## Supplier's Revision Record

3	Jan. 15, 2019	For Review	Penticton		
2	Nov. 15, 2018	For Review	Penticton		
1	Oct. 17, 2018	For Review	Penticton		
0	Aug. 02, 2018	For Review	Penticton		
<b>Rev.</b>	<b>Date</b>	<b>Issue</b>	<b>By</b>	<b>Checked</b>	<b>Approved</b>

## Project Document Number

<b>Project No.</b>	<b>Purchase Order No.</b>		<b>Seq. No.</b>
233124	1397868	- A05 -	0010

**DOCUMENT TITLE: SP-K3493**

## SUPPLIER DOCUMENT REVIEW

Purchaser's review of Supplier's documents does not relieve Supplier of the responsibility for correctness under the Purchase Order. Permission to proceed does not constitute acceptance of design, detail and calculations, test methods or materials developed or selected by the Supplier and does not relieve the Supplier from full compliance with the Purchase Order or any other obligations, nor detract from any of the Purchaser's rights.

Purchaser's review status as per tick the appropriate box:			Purchasers review / reviewer	
<input checked="" type="checkbox"/>	<b>CODE 1:</b>	No Comments	Jan 23/19	Mike
<input type="checkbox"/>	<b>CODE 2:</b>	Reviewed with Minor Comments		
<input type="checkbox"/>	<b>CODE 3:</b>	Reviewed with Comments		
<input type="checkbox"/>	<b>CODE 4:</b>	Rejected		
<input type="checkbox"/>	<b>CODE 5:</b>	Superseded		
<input type="checkbox"/>	<b>CODE 6:</b>	Void		
<input type="checkbox"/>	<b>CODE 7:</b>	For Information		

### IMPORTANT

*Should the Supplier consider that any comments made by the Purchaser change the Scope of Supply, the Supplier shall advise the price and delivery implications of such changes within five working days of receipt. The Supplier must not incorporate such changes without prior approval of the Purchaser of the revised price and/or delivery period. RETROSPECTIVE CLAIMS WILL NOT BE CONSIDERED.*

1 - Approved  
Provide P.Eng stamped drawing

Mr Narjeet Sindhu - ExxonMobil  
Review 3  
1 - Approved  
Ms May Liu - WorleyParsons

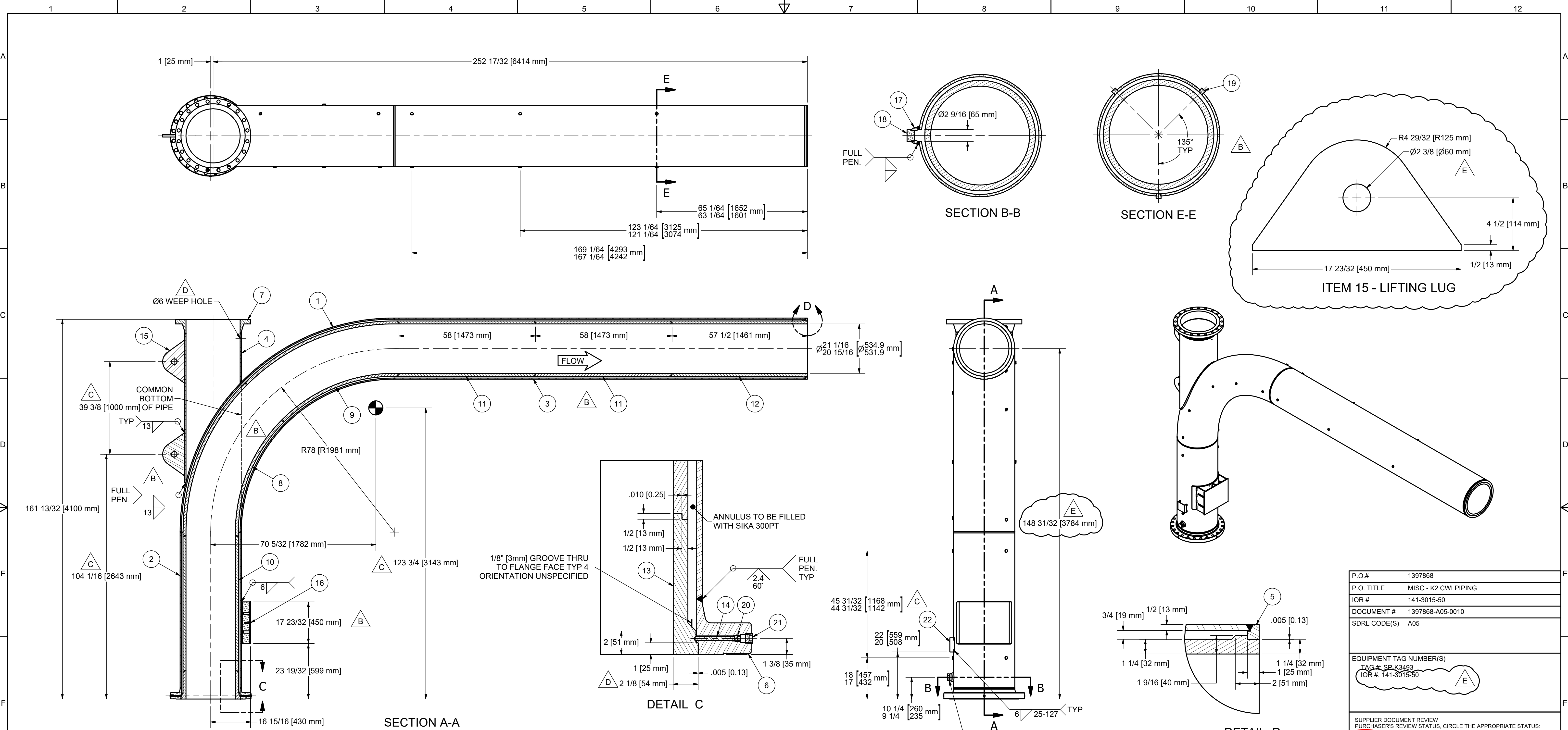
Ms Rebecca van Hoeve - CBI

Jan 29, 2019, 1:26 PM MST

## Supplier - Purchaser Interface Data Freeze

<b>MCDERMOTT Name:</b>	<b>Signature:</b>	<b>Date:</b>
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The document consists of this front sheet plus 1 page.



BILL OF MATERIAL				
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION	
1	1	A1-18001-200-01 26in elbow	26"-3D XS x 90° FORGED ELBOW, A234 WPB	
2	1	A1-18001-200-02 26in pipe - inlet	26" XS x 1679mm PIPE, API 5L Gr.B PSL-2	
3	1	A1-18001-200-03 26in pipe - outlet	26" XS x 4435mm PIPE, API 5L Gr.B PSL-2	
4	1	A1-18001-200-04 24in dummy leg	24" XS x 1610mm PIPE, API 5L Gr.B PSL-2	
5	1	A1-18001-200-05 End ring	Ø660mm x Ø597mm x 1" PLATE, A516 Gr.70N	
6	1	A1-18001-200-06 26in CL150 RFWN flange - custom	26" XS CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N	
7	1	A1-18001-200-07 24in CL150 RFWN flange	24" XS CLASS 150 ASME B16.5 RFWN FLANGE, A105N	
8	1	A1-18001-200-08 HCWI elbow - male	533mm ID x 32mm WALL x 2134mm RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#743107	
9	1	A1-18001-200-09 HCWI elbow - female	533mm ID x 32mm WALL x 2134mm RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#743106	
10	1	A1-18001-200-10 HCWI pipe - inlet	533mm ID x 32mm WALL x 1320mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743104	
11	2	A1-18001-200-11 HCWI pipe - center	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743103	
12	1	A1-18001-200-12 HCWI pipe - outlet	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743102	
13	1	A1-18001-200-13 26in HCWI liner - pup	533mm ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743101	
14	4	A1-18001-200-14 Trap rod	Ø3/8" x 86mm ROUND BAR, A36	
15	2	A1-18001-200-15 Lifting lug	450mm x 239mm x 1" PLATE, CSA G40.21 Gr.350 WT Cat 4	
16	1	A1-18001-400-00 Pipe shoe - S4-A-2-26	AS PER 074-0000-220-000-026 01	
17	1	A1-18001-100-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N	
18	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N	
19	28	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N	
20	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED	
21	4	Parker Countersunk Hex-Head Plug 219P 219P-8	1/2"-NPT SOCKET HEAD PLUG, A105N	
22	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W	
23	AS REQ'D	GROUT	SIKA 300PT	

REVISION HISTORY		
REV	DATE	DESCRIPTION
E	1/15/19	ADDED DIMENSION, REVISED LIFTING LUGS, ADDED LIFTING LUG DETAIL, UPDATED PO TABLE, BORE TOLERANCED
D	11/20/18	REMOVED DETAIL F, INLET PIPE WAS 19mm WALL, INLET FLANGE WAS 24 1/2" BORE, TRAP ROD WAS 92mm LONG, DIMENSION WAS 1 7/8" [48mm], ADDED WEEP HOLE NOTE
C	11/15/18	ADDED GROUT TO BOM, REMOVED ONE & RELOCATED ONE LIFTING LUG, UPDATED CoG FOR LIFT WITH SUPPORT SPOOL ATTACHED & RELOCATED LIFTING LUGS TO SUIT, UPDATED SP NUMBER, ADDED TAG MOUNT, UPDATED DIMENSIONS, ADDED DETAIL F, UPDATED GENERAL NOTES DRAWING NUMBER
B	10/17/18	CHANGED OUTLET LINER CONFIGURATION, INLET PIPE WAS XS WALL, ADDED PIPE SHOE, ADDED LIFTING LUGS, DUMMY LEG NOW AT COMMON BOTTOM OF PIPE, ADDED CoG, ADDED SECTION E-E, ADDED MDMT
A	8/02/18	ISSUED FOR REVIEW

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION SHALL BE KEPT SECRET AND NOT BE USED FOR ANY PURPOSE NOR BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION FROM ALCO INC. OR ITS DIVISIONS

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.1" (OR 0.4" RADI) PER ANSI Y14.5 STANDARD.

TOLERANCES:  
X.XX = ±.118  
X.XX = ±.050  
X.XXX = ±.015  
X.XXX = ±.005

ANGLES:  
±.12°

125° FINISH ON ALL MACHINED SURFACES

DRAWN BY: GVD  
DATE: 1/15/19

CHECKED BY: DATE

APPROVED: DATE

MATERIAL & HEAT TREAT

DO NOT SCALE

REFER TO DRAWING A1-00001-100-04 FOR ALL GENERAL NOTES AND SPECIFICATIONS

DESIGN CODE: ASME B31.3, Add.2016 EDITION  
SERVICE: BITUMEN FROTH  
DESIGN PRESSURE: 1580 kPag (229 psig)  
DESIGN TEMPERATURE: 93°C (199°F) -29°C (-20°F)  
TEST PRESSURE: 3000 kPag (435 psig)  
TEST TEMPERATURE: 15°C (59°F)  
TEST DURATION: 10 MINUTES

ALCO Industrial  
11650 - 156 Street,  
Edmonton, Alberta, Canada T6M 3T5  
Phone: (780) 451-5222 • Fax: (780) 452-4355

TITLE: 26" HCWI ELBOW - SPOOL SP-K3493  
IOL KEARL PLANT 2 - EXTRACTION

PROJECT No: A1-18001  
REFERENCE: 074-2300-080-141-010 01

FILE NAME: A1-18001-200-00 Spool SP-K3493.idw

REV: E  
SHEET 1 OF 1