

SUPPLIER DOCUMENT COVER SHEET

MCDERMOTT

233124 PSC Modifications
Imperial Oil Resources Limited



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

Supplier's Revision Record

0	Aug. 07, 2018	For review	Penticton		
Rev.	Date	Issue	By	Checked	Approved

Project Document Number

Project No.	Purchase Order No.		Seq. No.
233122	1397868	- A05 -	0010

DOCUMENT TITLE: SP-C3636

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 type="checkbox"/>	CODE 1: No Comments	Date	Signature
<input type="checkbox"/>	CODE 2: Reviewed with Minor Comments		
<input checked="" type="checkbox"/>	CODE 3: Reviewed with Comments	<div style="border: 1px solid black; padding: 5px; background-color: #e0e0ff;"> REVIEWED By Rebecca van Hoeve at 10:41 am, Aug 28, 2018 </div>	
<input type="checkbox"/>	CODE 4: Rejected		
<input type="checkbox"/>	CODE 5: Superseded		
<input type="checkbox"/>	CODE 6: Void		
<input type="checkbox"/>	CODE 7: For Information		

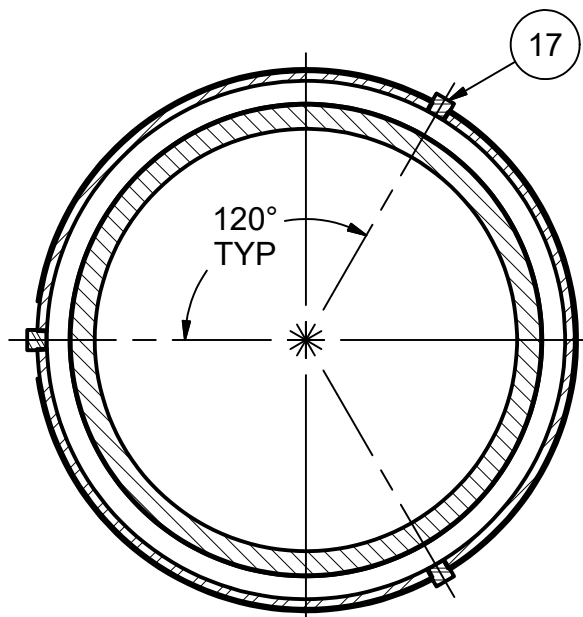
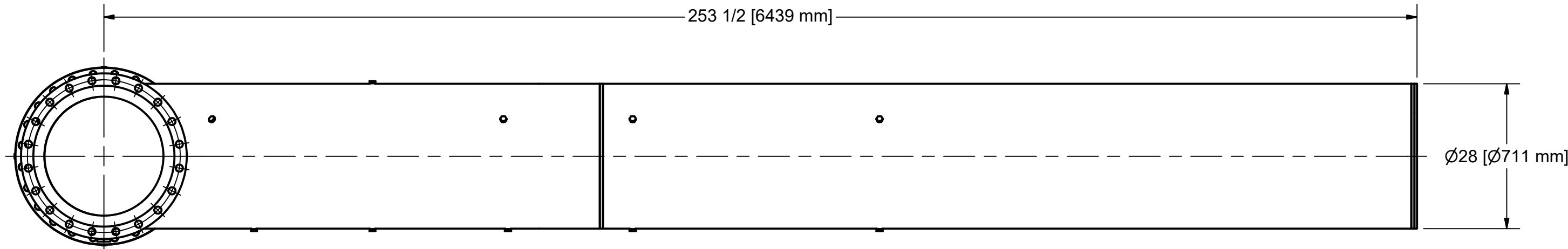
IMPORTANT

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.

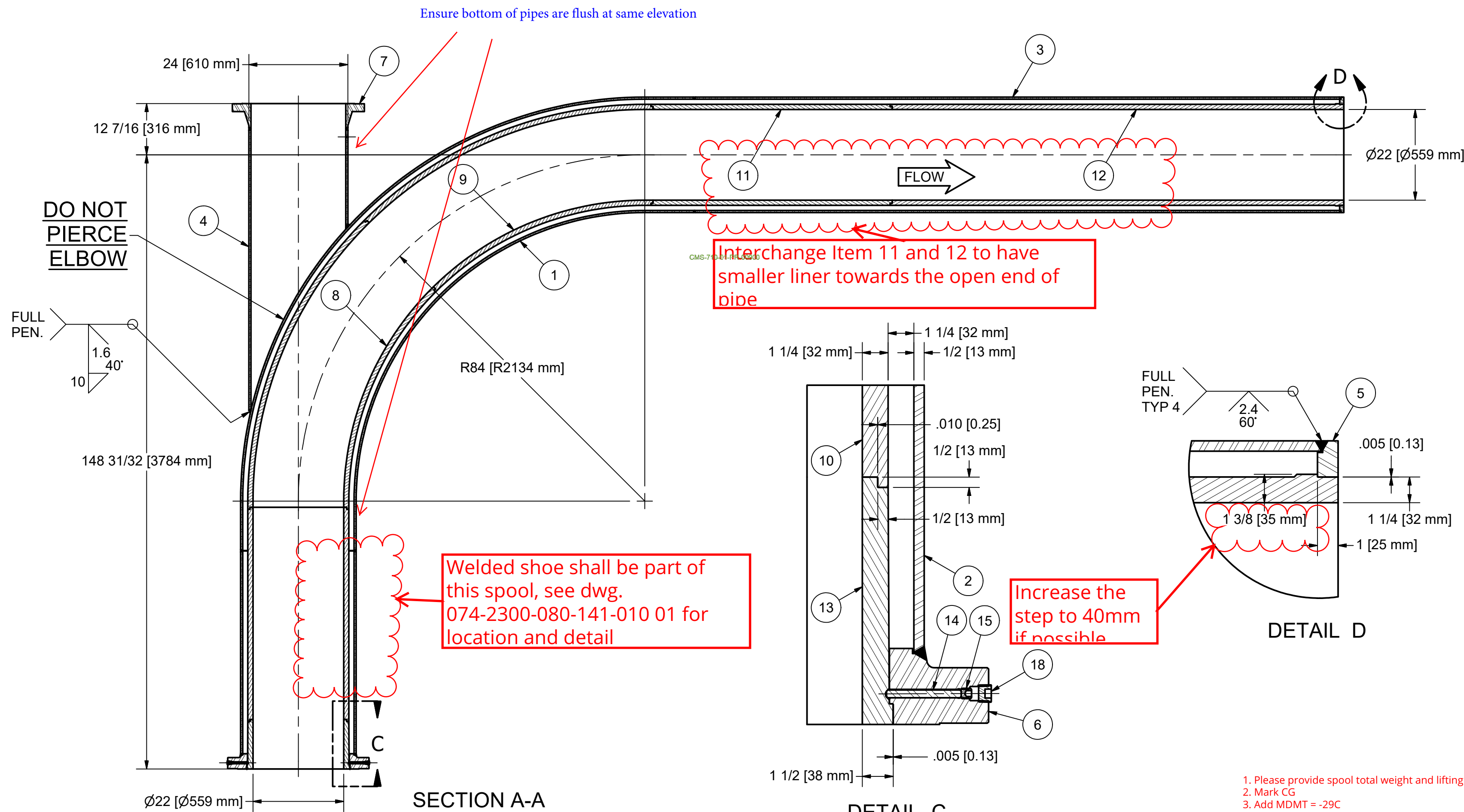
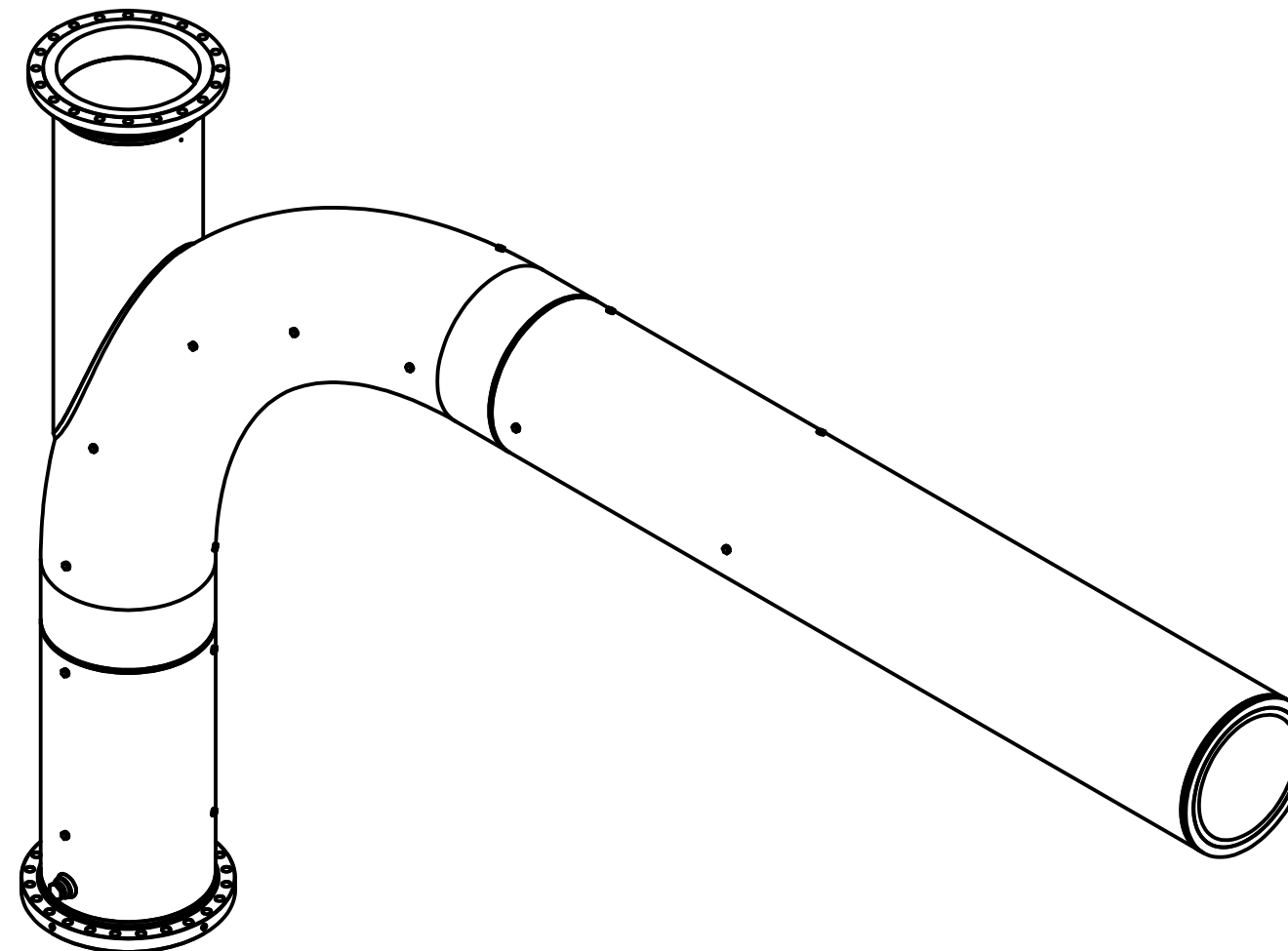
Supplier - Purchaser Interface Data Freeze

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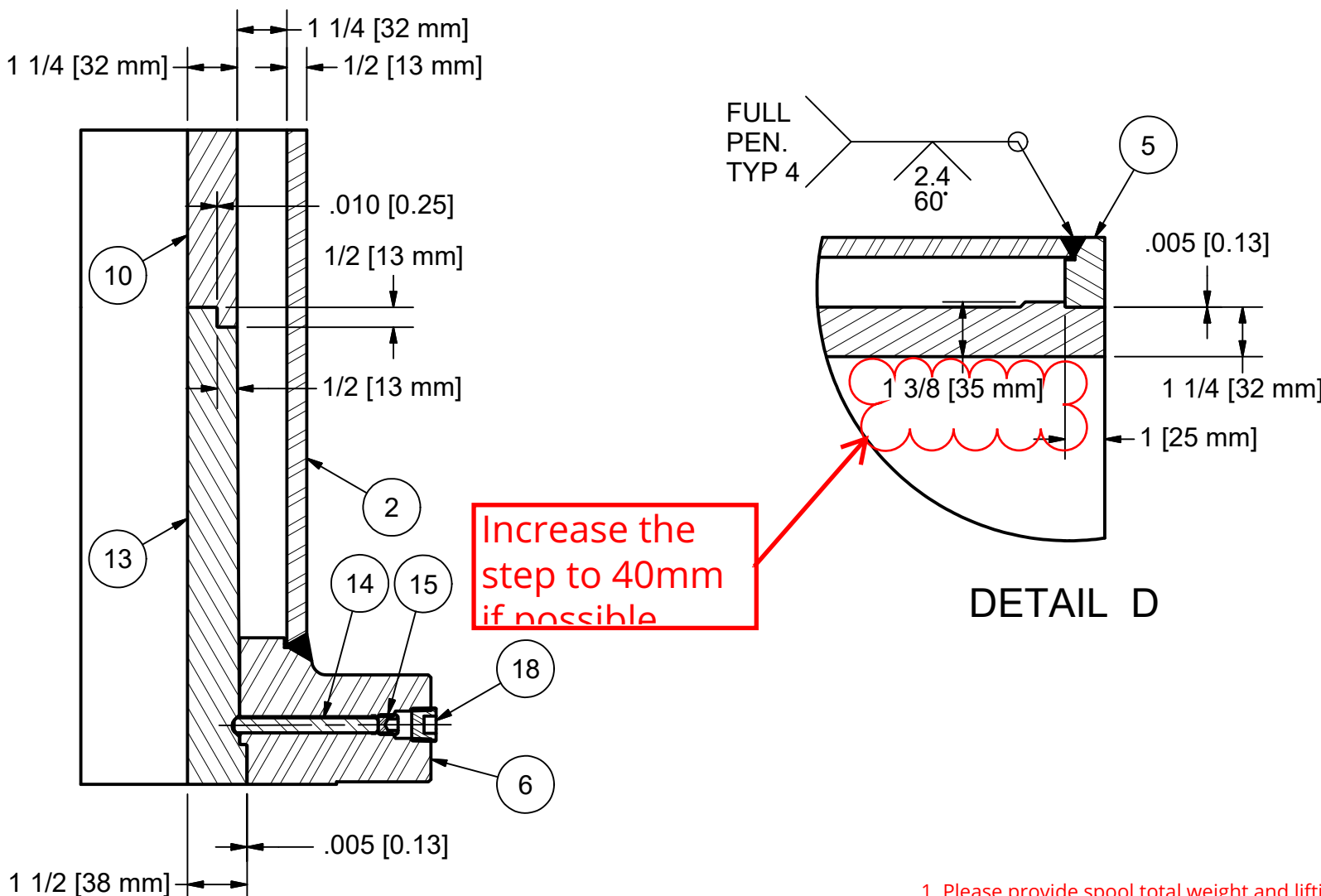
The document consists of this front sheet plus 1 page.



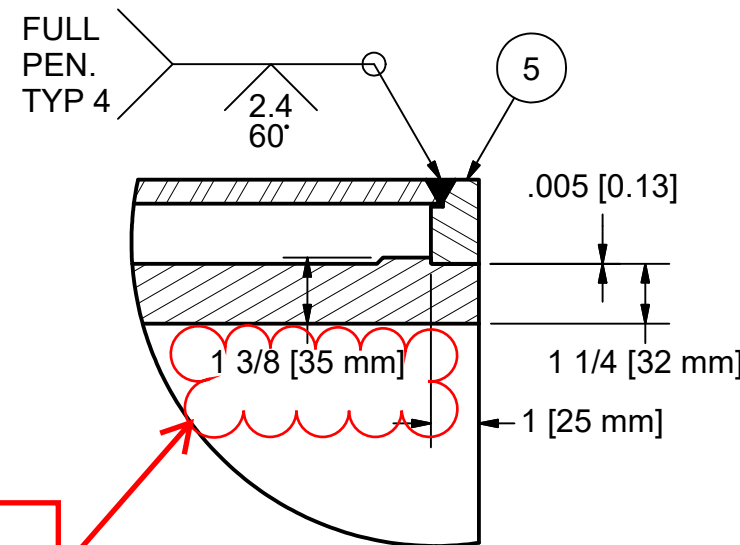
SECTION B-B



SECTION A-A

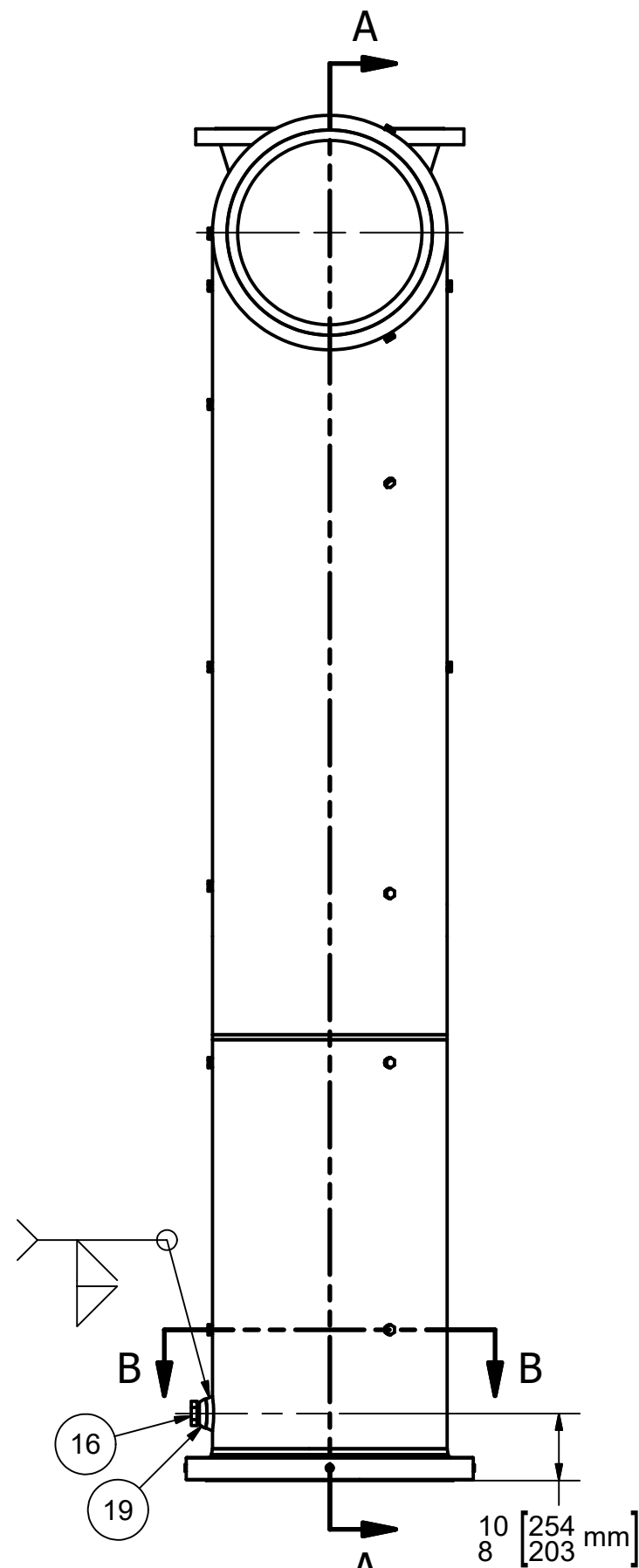


DETAIL C



DETAIL D

1. Please provide spool total weight and lifting lugs detail
2. Mark CG
3. Add MDMT = -29C
4. Specialty item number is SP-K3493
5. Items 4 material shall be API 5L Gr B PSL2
6. Item 6 is a custom flange and shall be designed as per ASME VIII div 1 to meet ASME B16.47 series A pressure & temp rating and bolt up
7. Item 7 shall be RFWN flange
8. Butt welding of dissimilar wall thickness shall be as per B31.11 or B31.3
9. Material for item numbers 16,17 & 18 shall be A105N
10. Why test duration for froth spools is 10 min while duration for HT is 4 hrs.



BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-18001-200-01 28in elbow	28"-3D XS x 90° ELBOW, API 5L Gr.B PSL-2, TANGENTS: 12"
2	1	A1-18001-200-02 28in pipe - inlet	28" XS x 49 11/32" PIPE, API 5L Gr.B PSL-2
3	1	A1-18001-200-03 28in pipe - outlet	28" XS x 156 9/16" PIPE, API 5L Gr.B PSL-2
4	1	A1-18001-200-04 24in dummy leg	24" XS x 68 9/32" PIPE, A106 Gr.B
5	1	A1-18001-200-05 End ring	Ø28" x Ø24 1/2" x 1" PLATE, A516 Gr.70N
6	1	A1-18001-200-06 26in CL150 RF flange - custom	26" CLASS 150 RFSO FLANGE, A105N, Ø24 5/8" BORE
7	1	A1-18001-200-07 24in CL150 RFWN flange	24" XS CLASS 150 RFWN FLANGE, A105N
8	1	A1-18001-200-08 HCWI elbow - male	22" ID x 1 1/4" WALL x 84" RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#
9	1	A1-18001-200-09 HCWI elbow - female	22" ID x 1 1/4" WALL x 84" RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#
10	1	A1-18001-200-10 HCWI pipe - inlet	22" ID x 1 1/4" WALL x 51 31/32" HCWI LINER, ASTM A532 CLASS III TYPE A, PF#
11	1	A1-18001-200-11 HCWI pipe - center	22" ID x 1 1/4" WALL x 58 1/2" HCWI LINER, ASTM A532 CLASS III TYPE A, PF#
12	1	A1-18001-200-12 HCWI pipe - outlet	22" ID x 1 1/4" WALL x 110" HCWI LINER, ASTM A532 CLASS III TYPE A, PF#
13	1	A1-18001-200-13 26in HCWI liner - pup	22" ID x 1 1/4" WALL x 12" HCWI LINER, ASTM A532 CLASS III TYPE A, PF#
14	4	A1-18001-200-14 Trap rod	Ø3/8" x 3 5/8" ROUND BAR, A36
15	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED
16	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105
17	25	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105
18	4	Parker Countersunk Hex-Head Plug 219P 219P-8	1/2"-NPT SOCKET HEAD PLUG, A105
19	1	A1-18001-100-09 2in x 28in CL3000 threadolet	2" x 28" CLASS 3000 THREADOLET, A105N

REVISION HISTORY		
REV	DATE	DESCRIPTION
A	8/02/18	ISSUED FOR REVIEW

P.O.#
P.O. TITLE
IOR #
DOCUMENT #
SDRL CODE(S)

EQUIPMENT TAG NUMBER(S)

SUPPLIER DOCUMENT REVIEW PURCHASER'S REVIEW STATUS, CIRCLE THE APPROPRIATE STATUS: CODE 1 - NO COMMENTS CODE 2 - REVIEWED WITH MINOR COMMENTS CODE 3 - REVIEWED WITH COMMENTS CODE 4 - REJECTED CODE 5 - SUPERSEDED CODE 6 - VOID CODE 7 - FOR INFORMATION PURCHASER REVIEW / REVIEWER SIGNATURE DATE: 8/02/18 By Rebecca van Hoeve at 10:41 am, Aug 28, 2018
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DESIGN CODE:	ASME B31.3, Add.2016 EDITION
SERVICE:	BITUMEN FROTH
DESIGN PRESSURE:	1580 kPag (229 psig)
DESIGN TEMPERATURE:	93°C (199°F)
TEST PRESSURE:	3000 kPag (435 psig)
TEST TEMPERATURE:	15°C (59°F)
TEST DURATION:	10 MINUTES

PENTICTON FOUNDRIES LTD.
TO SUPPLY DIRECT TO JOBSITE

REFER TO DRAWING A1-00001-100-01 FOR
ALL GENERAL NOTES AND SPECIFICATIONS

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY BE USED FOR ANY PURPOSE OR IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM ALCO INDUSTRIAL OR ITS DIVISIONS.	EST. WT. 18,480 lbs. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.01" (0.004") (RADI) 0.01" (0.010). INTERPRET DWG PER ANSI Y14.5 STANDARD.	DO NOT SCALE		ALCO Industrial	
	TOLERANCES: X = ± 1/16 XX = ± 0.00 XXX = ± 0.015 XXXX = ± 0.005 ANGLES = ± 1/2° 125/125 FINISH ON ALL MACHINED SURFACES	DRAWN BY: GVD	DATE: 8/02/18	11650 - 156 Street, Edmonton, Alberta, Canada T6M 3T5 Phone: (780) 451-6222 • Fax: (780) 452-4355	
		CHECKED BY:	DATE:	TITLE	
		APPROVED:	DATE:	PROJECT No. A1-18001	
MATERIAL & HEAT TREAT				REFERENCE 074-2300-080-141-010 01	
				REV. A	
				SHEET 1 OF 1	