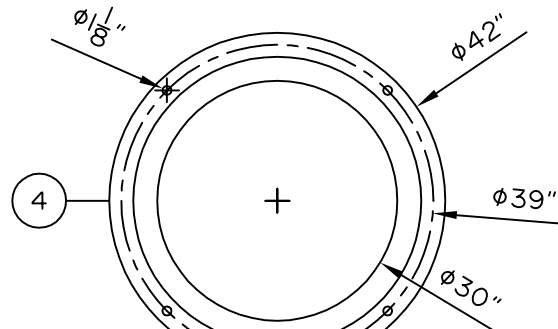
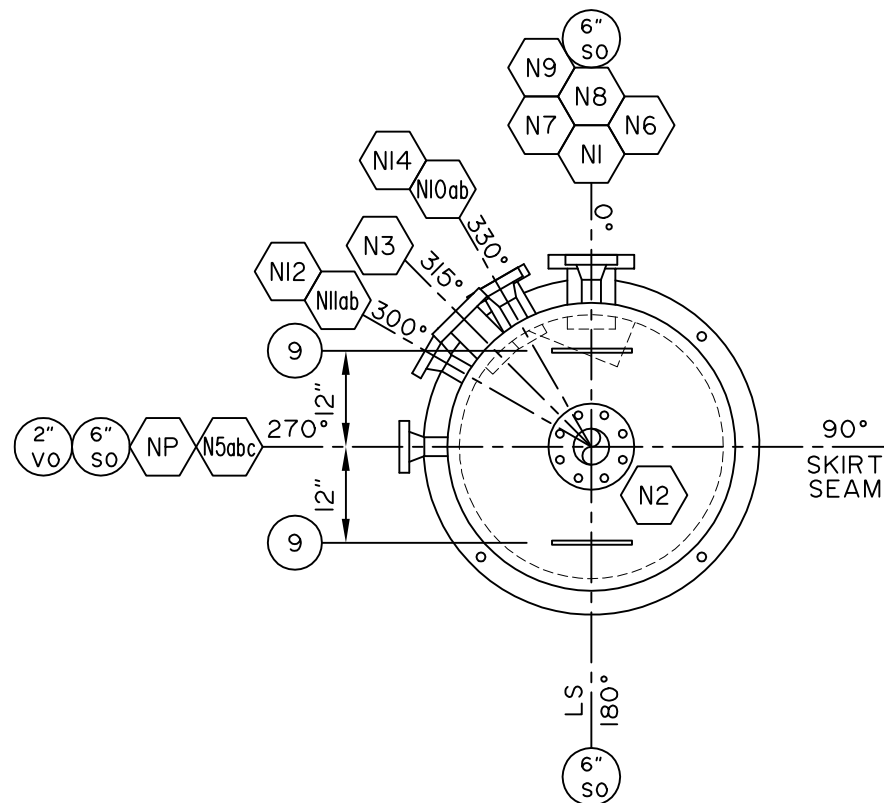


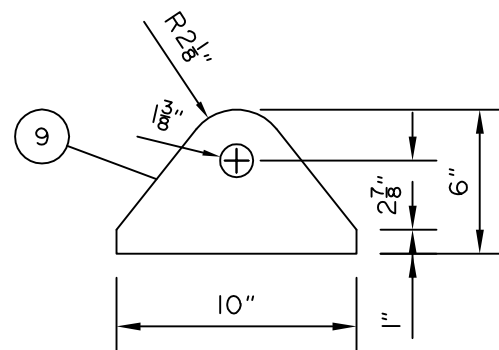
ELEVATION



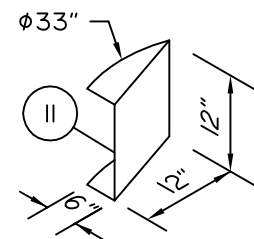
BASE LAYOUT



ORIENTATION



LIFT LUG  
N.T.S.



INLET DIVERTER  
N.T.S.

WELD DETAIL 1	WELD DETAIL 2	WELD DETAIL 3	WELD DETAIL 4	WELD DETAIL 5	WELD DETAIL 6	WELD DETAIL 7	WELD DETAIL 8	WELD DETAIL 9	WELD DETAIL 10	WELD DETAIL 11	WELD DETAIL 12	WELD DETAIL 13	WELD DETAIL 14
ROOT: BA-1 FBC: BA-1	ROOT: BA-1 FBC: BA-1	ROOT: BA-1 FBC: BA-1	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19	ROOT: BM-19 FBC: BA-2 OR BM-19	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-19 FBC: BA-2 OR BM-19	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19
WITHOUT BACKING	WITHOUT BACKING	3/4" TRANSITION											
R <sub>1/8</sub> (1/8") a:60° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:60° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:60° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:75° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")	R <sub>1/8</sub> (1/8") a:40° (15°) h <sub>1/8</sub> (1/8")
NOZ	NO.	SIZE	RATING	TYPE OF	OD OF	PROJECTION	REIF PAD	WELD	FILLET	WELD SIZE	BILL OF MAT'L	REMARKS	
NO.	REQ'D	REQ'D		SERVICE	NOZ NECK	OUTSIDE	INSIDE	OD x THK	DETAIL	A B C	ITEM No.		
N1	I	4"	600	INLET	6.00"	6	I 1/2	-	5	3/8 5/8 -	5	-	
N2	I	4"	600	OUTLET	6.00"	6	I	-	5	3/8 5/8 -	5	INSPECTION	
N3	I	3"	600	LSHH	4.62"	6	I 1/2	-	5	5/8 3/4 -	6	-	
N4	I	3"	600	TI	4.62"	6	I 1/2	-	5	5/8 3/4 -	6	INSPECTION	
N5abc	3	2"	600	BRIDLE CONN.	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N6	I	2"	600	PSV	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N7	I	2"	600	DUMP	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N8	I	2"	600	DUMP	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N9	I	2"	600	DRAIN	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N10ab	2	2"	600	LG	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N11ab	2	2"	600	LG	2.375"	6	-	-	4,6	3/8 -	7,8	-	
N12	I	2"	600	PIT	2.375"	6	-	-	4,6	3/8 -	7,8	-	

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
1	2	S.E. HEAD, 36"OD X 1.500" NOM. (1.4375" MIN.), SA516-70N, HOT FORMED
2	1	SHELL, 36"OD X 1.500" X 10'-0" LONG, SA516-70N
3	1	ROLLED PLATE, 36"OD X 0.375" X 27 3/16" LONG, SA516-70N
4	1	BASE PLATE - PLATE, 1/2", SA36/44W (SEE DETAIL)
5	2	RFLWN, 4" 600 ANSI X 10" OAL, SA350LF2 CL1
6	2	RFLWN, 3" 600 ANSI X 9" OAL, SA350LF2 CL1
7	12	RFWN, 2" 600 ANSI SCH. 160, SA105N
8	12	PIPE, 2" SCH. 160 (0.344"), SA106B X 2 7/8" LONG
9	2	LIFT LUG - PLATE, 1", SA516-70N (SEE DETAIL)
10	1	TAG PLATE HOLDER, SA36 & VESSEL ID PLATE, ALUM
11	1	INLET DIVERTER - PLATE, 3/8", SA36/44W (SEE DETAIL)
12	1	DEM 9LB 316LSS, 33"OD X 6"TK, 3 PC, NO GRD
13	40'	FLAT, 1/4" X 1", A36/44W
14	10'	FLAT EXP. METAL, 3/4" X 9LB, CS
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NOTES:  
ALL STUD LENGTHS GIVEN ARE THREAD TO THREAD

1	02	05	18	AS BUILT	CK	CK	-
0	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK	-
REV.	MM	DD	YY	DESCRIPTION	CALC.	BY	CHK'D
No.			DATE		No.		SIGN'D

ASME 2015 ED. SEC. VIII DIV. 1

BMS AQP (S) 1009	REGISTERED WELD PROCEDURE 505.2
FOR VESSEL TOLERANCES, SEE WELDER HANDBOOK	
VESSEL TYPE: VERTICAL	
M.A.W.P.: 1440 PSIG (9929 kPa) AT +130°F (+54°C)	
M.D.M.T.: -20°F (-29°C) AT 1440 PSIG (9929 kPa)	
IMPACT TESTING: EXEMPT PER UCS66(a)(b) & UG20f (I-5)	
P.W.H.T.: 1150°F FOR 90 MIN.	
RADIOGRAPHY: RT-I	CIRC.: FULL LONG: FULL
JOINT EFFICIENCY:	HEADS: 1.00 SHELL: 1.00
CORROSION ALLOWANCE: 1/8"	
HYDROSTATIC TEST: 1872 PSIG (12907 kPa)	
VOLUME: 64.5ft <sup>3</sup> (1.84m <sup>3</sup> )	
WEIGHT (DRY): 6,600 lb (3000 kg)	

CLIENT:

ARC RESOURCES LTD.

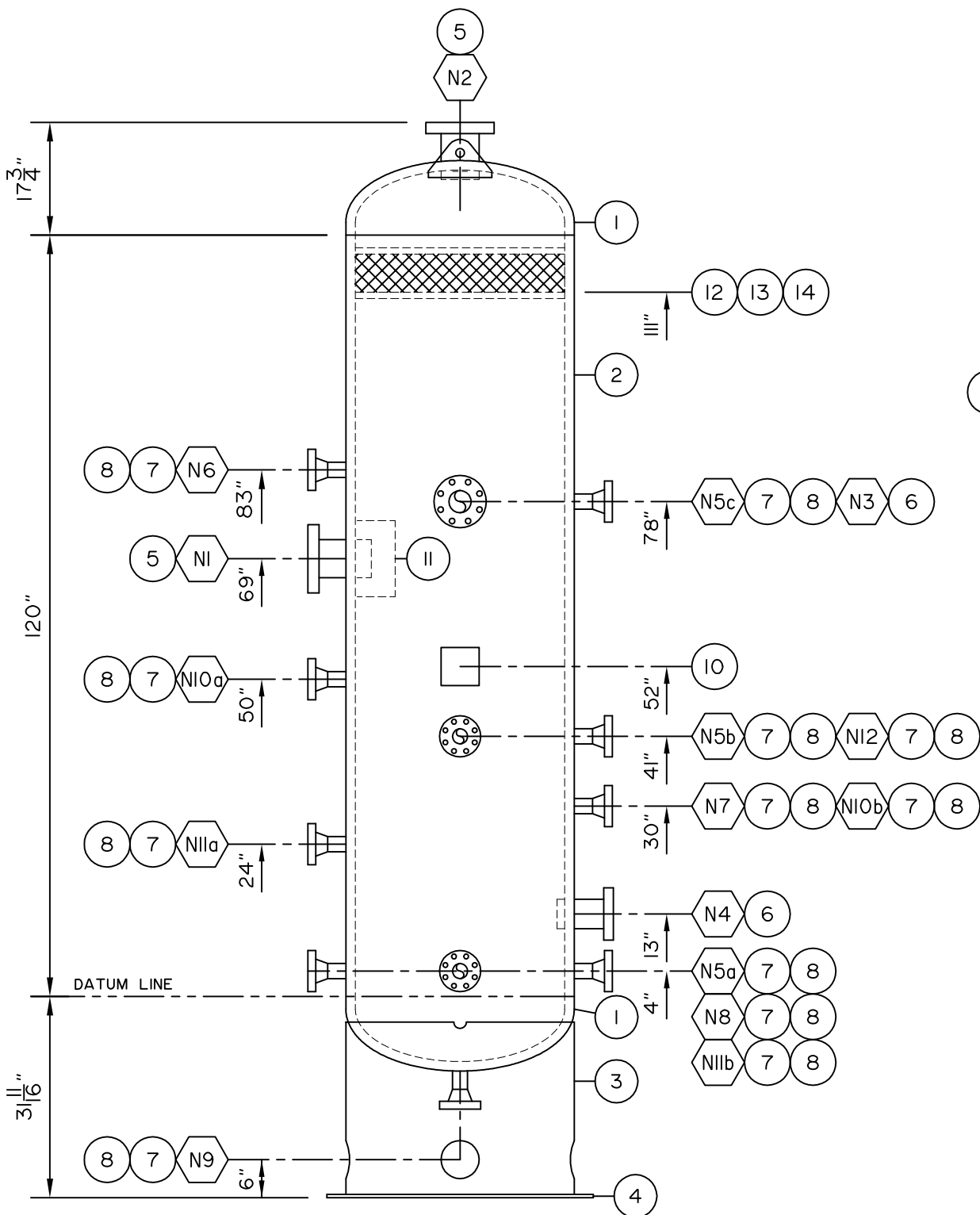
**BROMLEY**  
MECHANICAL SERVICES  
A DIVISION OF ARGO SALES INC  
925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1  
Ph: (403) 526-3142 Fax: (403) 526-1061  
Toll Free (800) 215-9806

PROJECT:

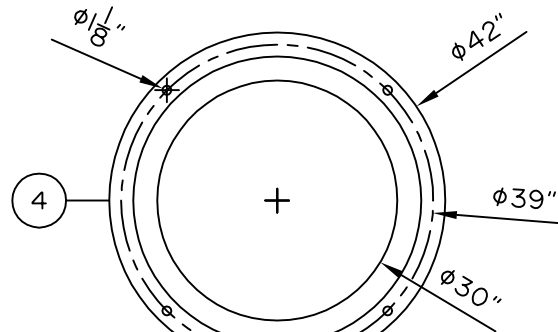
TYPICAL DUAL/TEST  
SEPARATOR PACKAGE

TITLE: 36"OD X 10'-0" X 1440 PSI GROUP SEP.

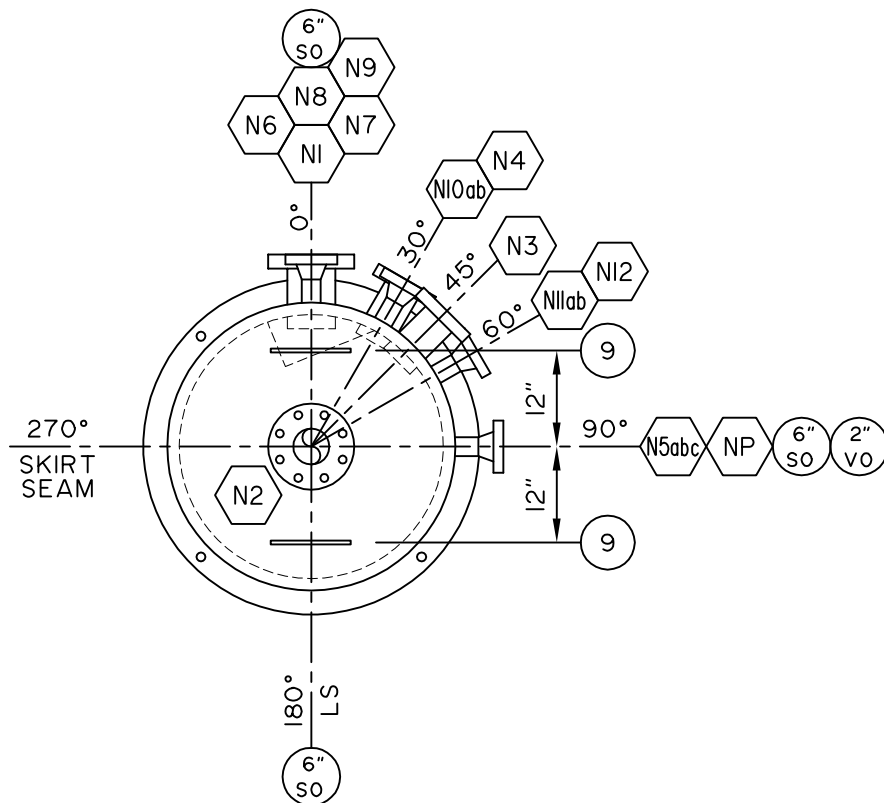
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DRAWN BY:	C. KARPIUK	REV. No.:	1	DATE: MM/DD/YY	02/05/18
DATE: MM/DD/YY	10/11/17	SCALE:	1/2"=1'-0"	CAD No.:	35527-GROUP



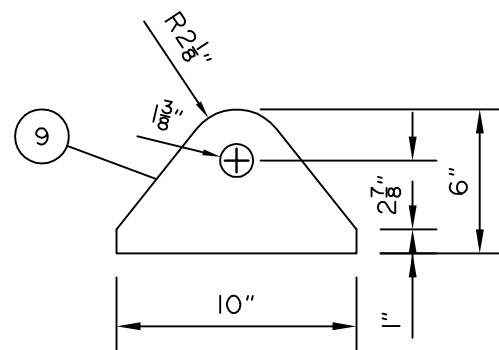
ELEVATION



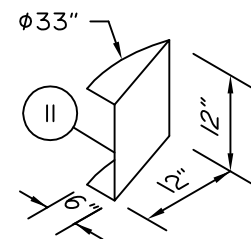
BASE LAYOUT



ORIENTATION



LIFT LUG  
N.T.S.



INLET DIVERTER  
N.T.S.

WELD DETAIL 1	WELD DETAIL 2	WELD DETAIL 3	WELD DETAIL 4	WELD DETAIL 5	WELD DETAIL 6	WELD DETAIL 7	WELD DETAIL 8	WELD DETAIL 9	WELD DETAIL 10	WELD DETAIL 11	WELD DETAIL 12	WELD DETAIL 13	WELD DETAIL 14
ROOT: BA-1 FBC: BA-1	ROOT: BA-1 FBC: BA-1	ROOT: BA-1 FBC: BA-1	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19	ROOT: BM-19 FBC: BA-2 OR BM-19	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-19 FBC: BA-2 OR BM-19	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BM-2 FBC: BM-2 OR BMS-710M HT	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 FBC: BA-2 OR BM-19
WITHOUT BACKING	WITHOUT BACKING	3/8" TRANSITION											
R <sub>1/8"</sub> (1/8") a:60° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:60° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:60° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:75° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")	R <sub>1/8"</sub> (1/8") a:40° (1/5") h <sub>1/8"</sub> (1/8")
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## BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
1	2	S.E. HEAD, 36"OD X 1.500" NOM. (1.4375" MIN.), SA516-70N, HOT FORMED
2	1	SHELL, 36"OD X 1.500" X 10'-0" LONG, SA516-70N
3	1	ROLLED PLATE, 36"OD X 0.375" X 27 3/16" LONG, SA516-70N
4	1	BASE PLATE - PLATE, 1/2", SA36/44W (SEE DETAIL)
5	2	RFLWN, 4" 600 ANSI X 10" OAL, SA350LF2 CL1
6	2	RFLWN, 3" 600 ANSI X 9" OAL, SA350LF2 CL1
7	12	RFLWN, 2" 600 ANSI SCH. 160, SA105N
8	12	PIPE, 2" SCH. 160 (0.344"), SA106B X 2 7/8" LONG
9	2	LIFT LUG - PLATE, 1", SA516-70N (SEE DETAIL)
10	1	TAG PLATE HOLDER, SA36 & VESSEL ID PLATE, ALUM
11	1	INLET DIVERTER - PLATE, 3/8", SA36/44W (SEE DETAIL)
12	1	DEM 9LB 316LSS, 33"OD X 6"TK, 3 PC, NO GRD
13	40'	FLAT, 1/4" X 1", A36/44W
14	10'	FLAT EXP. METAL, 3/4" X 9LB, CS
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### NOTES:

ALL STUD LENGTHS GIVEN ARE THREAD TO THREAD

1	02	05	18	AS BUILT		CK	CK	-
0	11	08	17	ISSUED FOR CONSTRUCTION		CK	CK	-
REV.	MM	DD	YY	DESCRIPTION	CALC.	BY	CHK'D	SIGN'D
No.				DATE	No.			

ASME 2015 ED. SEC. VIII DIV. 1

BMS AQP (S) 1009 REGISTERED WELD PROCEDURE 505.2

FOR VESSEL TOLERANCES, SEE WELDER HANDBOOK

VESSEL TYPE: VERTICAL

M.A.W.P.: 1440 PSIG (9929 kPa) AT +130°F (+54°C)

M.D.M.T.: -20°F (-29°C) AT 1440 PSIG (9929 kPa)

IMPACT TESTING: EXEMPT PER UCS66(a)(b) & UG20f (I-5)

P.W.H.T.: 1150°F FOR 90 MIN.

RADIOGRAPHY: RT-I

CIRC.: FULL

LONG: FULL

JOINT EFFICIENCY:

HEADS: 1.00

SHELL: 1.00

CORROSION ALLOWANCE: 1/8"

HYDROSTATIC TEST: 1872 PSIG (12907 kPa)

VOLUME: 64.5ft<sup>3</sup> (1.84m<sup>3</sup>)

WEIGHT (DRY): 6,600 lb (3000 kg)

CLIENT:

ARC RESOURCES  
LTD.

**BROMLEY**  
MECHANICAL SERVICES  
A DIVISION OF ARGO SALES INC.

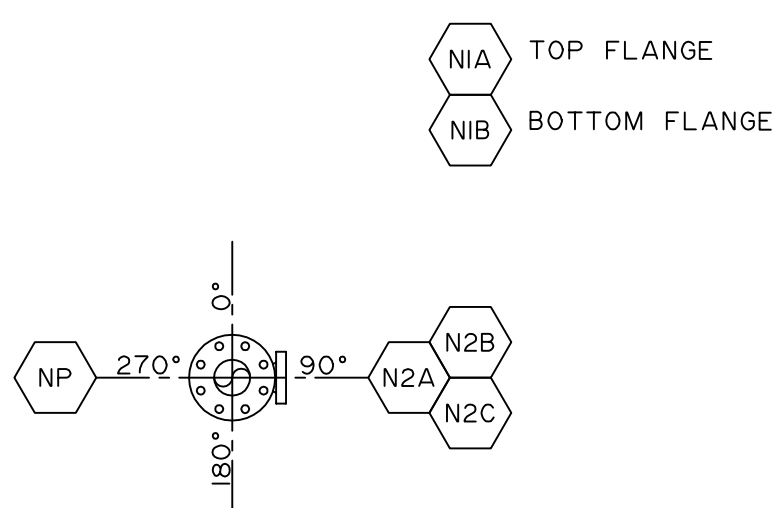
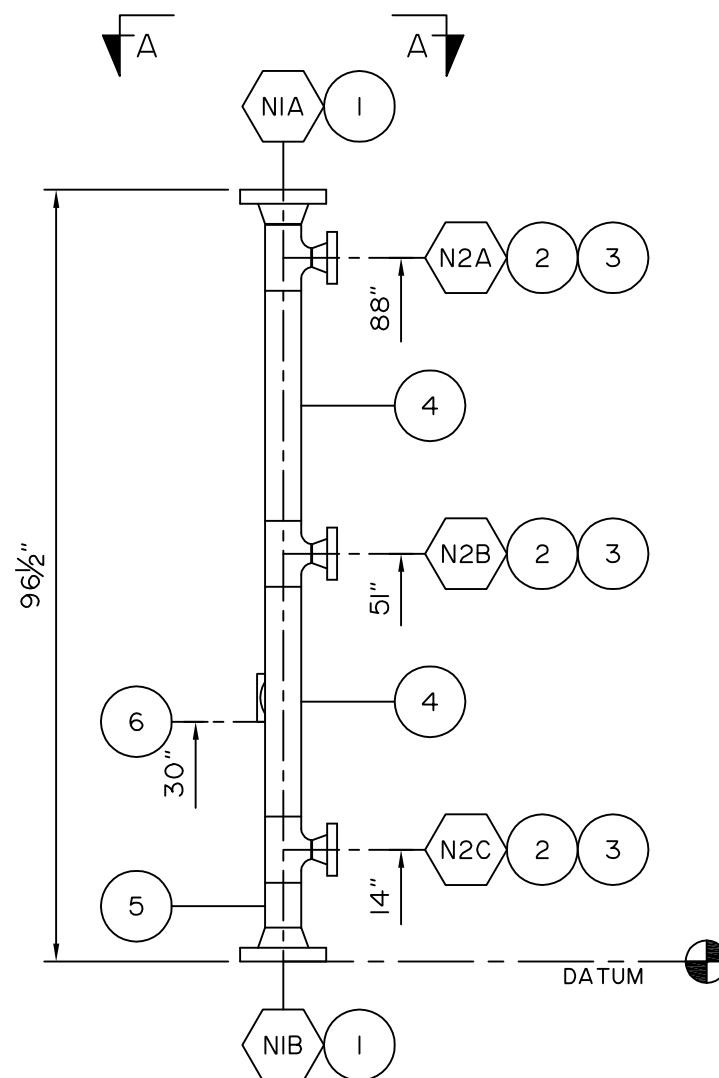
925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1  
Ph: (403) 526-3142 Fax: (403) 526-1061  
Toll Free (800) 215-9806

PROJECT:

TYPICAL DUAL/TEST  
SEPARATOR PACKAGE

TITLE: 36"OD X 10'-0" X 1440 PSI TEST SEP.

CRN: V4393.231	Wo No.: 35527	SER. No.: 35527-01/02
DRAWN BY: C. KAPRIUK	REV. No.: 1	DATE: MM/DD/YY 02/05/18
DATE: MM/DD/YY 10/11/17	SCALE: 1/2"=1'-0"	CAD No.: 35527-TEST



NOTE: TWO (2) BRIDLES REQUIRED PER PACKAGE

WELD DETAIL													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-1 OR BM-19 F&C: BA-1 OR BM-19	ROOT: BA-1 OR BM-19 F&C: BA-1 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19	ROOT: BA-2 OR BM-19 F&C: BA-2 OR BM-19
WITHOUT BACKING R=1/8" (±1/8") α=60° (±5°) h=1/16" (±1/16")	WITHOUT BACKING R=1/8" (±1/8") α=60° (±5°) h=1/16" (±1/16")	3/16" TRANSITION R=1/8" (±1/8") α=60° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=75° (±5°)	R=1/8" (±1/8") α=40° (±5°) h=1/8" (±1/8")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")	R=1/8" (±1/8") α=40° (±5°) h=1/16" (±1/16")
NOZ NO.	NO.	SIZE	RATING	TYPE OF	OD OF	PROJECTION	REIF PAD	WELD	FILLET WELD	WELD SIZE	BILL OF MAT'L	REMARKS	
NIA	1	4"	600 ANSI	HEADS	4.500"	A/R	.	4	.	.	1	INSPECTION	
NIB	1	4"	600 ANSI	HEADS	4.500"	A/R	.	4	.	.	1	INSPECTION	
N2A	1	2"	600 ANSI	VESSEL CONN.	2.375"	A/R	.	4	.	.	2,3	.	
N2B	1	2"	600 ANSI	VESSEL CONN.	2.375"	A/R	.	4	.	.	2,3	.	
N2C	1	2"	600 ANSI	VESSEL CONN.	2.375"	A/R	.	4	.	.	2,3	.	
.	.	.	.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	.	.	.	

### BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
1	2	RFWN, 4" 600 ANSI SCH. 160, SAI05N
2	3	RFWN, 2" 600 ANSI SCH. 160, SAI05N
3	3	WELD RED TEE, 4" X 2" SCH. 160, SA234WPB
4	2	PIPE, 4" SCH.160 (0.531"), SAI06B, 28-3/4" LONG
5	1	PIPE, 4" SCH.160 (0.531"), SAI06B, 5-5/8" LONG
6	1	TAG PLATE HOLDER, SA36 & VESSEL ID PLATE, ALUM
7	.	.
8	.	.
9	.	.
10	.	.

NOTE:  
TWO (2) BRIDLES REQUIRED PER PACKAGE

1	02	05	18	AS BUILT	CK	CK		
0	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK		
REV. No.	MM	DD	YY	DESCRIPTION	CALC NO.	BY	CHK'D	SIGN'D

ASME 2015 ED. SEC. VIII DIV. I

BMS AQP (S) 1009 REGISTERED WELD PROCEDURE 505.2

FOR VESSEL TOLERANCES, SEE WELDER HANDBOOK

VESSEL TYPE: BRIDLE

M.A.W.P.: 1440 PSIG (9929 kPa) AT +130°F (+54°C)

M.D.M.T.: -20°F (-29°C) AT 1440 PSIG (9929 kPa)

IMPACT TESTING EXEMPT PER, UG20f (I-5)

P.W.H.T.: 1150°F FOR 60 MIN.

RADIOGRAPHY: RT-I CIRC.: FULL LONG: SMLS

JOINT EFFICIENCY: HEADS: 1.00 SHELL: 1.00

CORROSION ALLOWANCE: 1/8"

HYDROSTATIC TEST: 1872 PSIG (12907 kPa)

VOLUME: 0.53ft³ (0.02 m³)

WEIGHT (DRY): 285 lb. (130 kg)

CLIENT:

ARC RESOURCES LTD.

**BROMLEY**  
MECHANICAL SERVICES  
A DIVISION OF ARGOS SALES INC

925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1  
Ph: (403) 526-3442 Fax: (403) 526-1061  
Toll Free (800) 215-9806

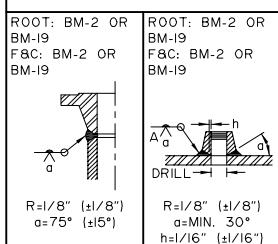
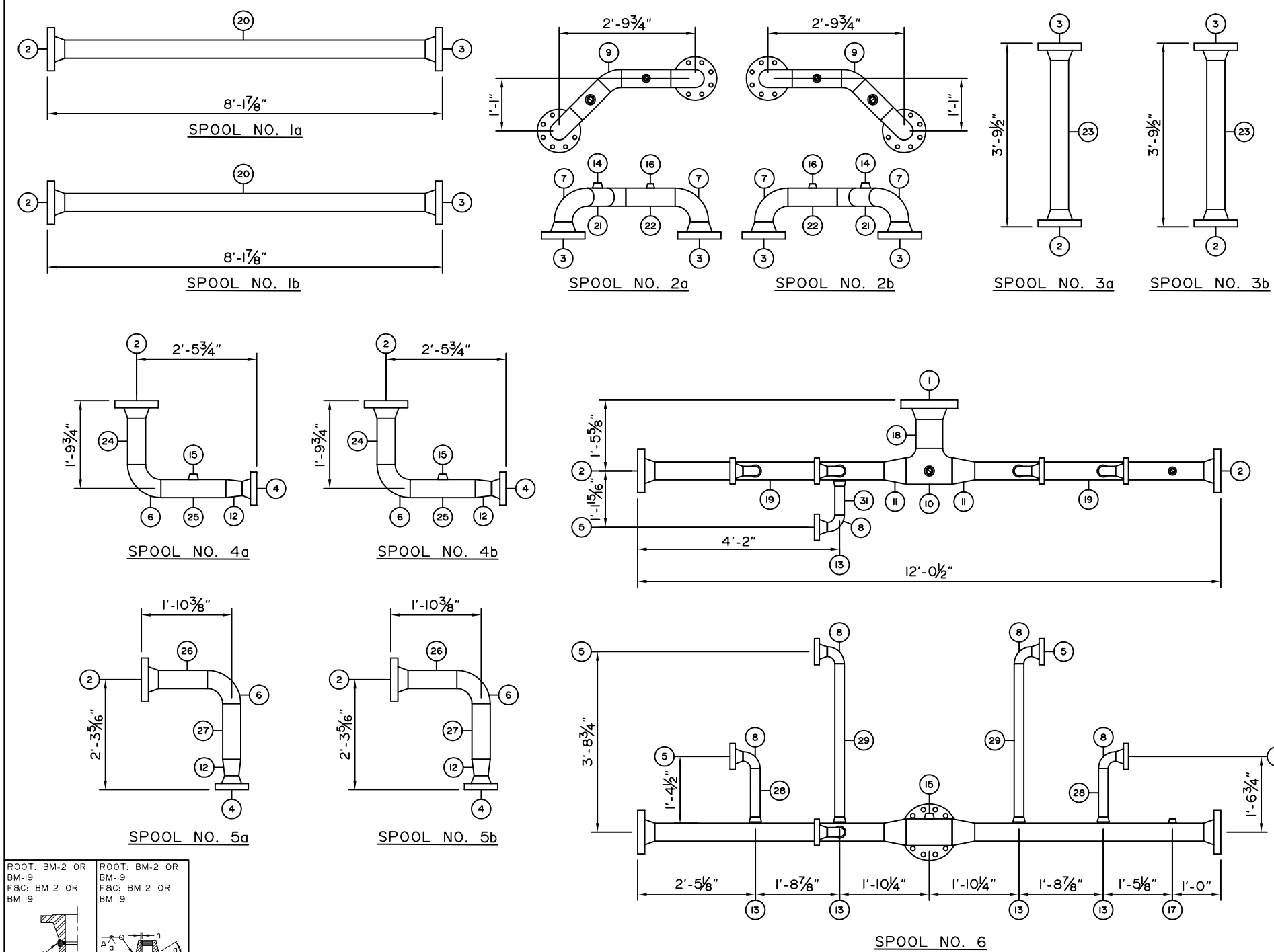
PROJECT:

TYPICAL DUAL/TEST SEPARATOR PACKAGE

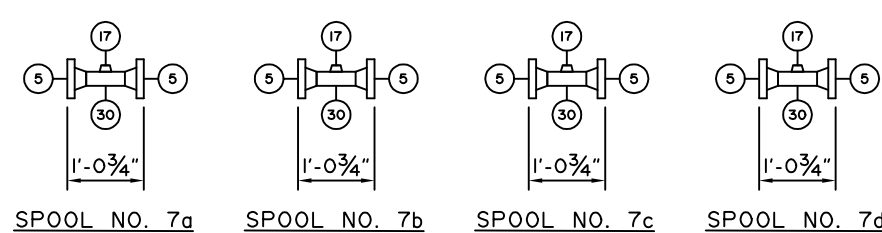
TITLE:

4"NPS X 88"S/S X 1440 PSI BRIDLE

C.R.N.: OH18137.2	Wo No.: 35527	SERIAL No.: 35527-F05/F06/F07/F08
DRAWN BY: C KARPIUK	REV. No.: 1	DATE: MM/DD/YY 02/05/18
DATE: MM/DD/YY 10/24/17	SCALE: 1/2"=1'-0"	CAD No.: 35527-BRIDGE



ASME B31.3 2014 ED. (NORMAL SERVICE)	
BMS AQP (S) 1009	REGISTERED WELD PROCEDURE 505.2
FOR PIPING TOLERANCES, SEE WELDER HANDBOOK	
FLUID TYPE: WATER, OIL, GAS	
M.A.W.P.: 1440 PSIG (9929 kPag) AT +130°F (+54°C)	
M.D.M.T.: -20°F (-29°C) AT 1440 PSIG (9929 kPag)	
P.W.H.T.: 1150°F FOR 60 MIN.	
RADIOGRAPHY: 100%	
CORROSION ALLOWANCE: 1/8"	
HYDROSTATIC TEST: 2160 PSIG (14893 kPag)	

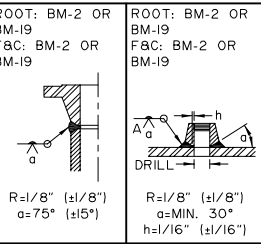
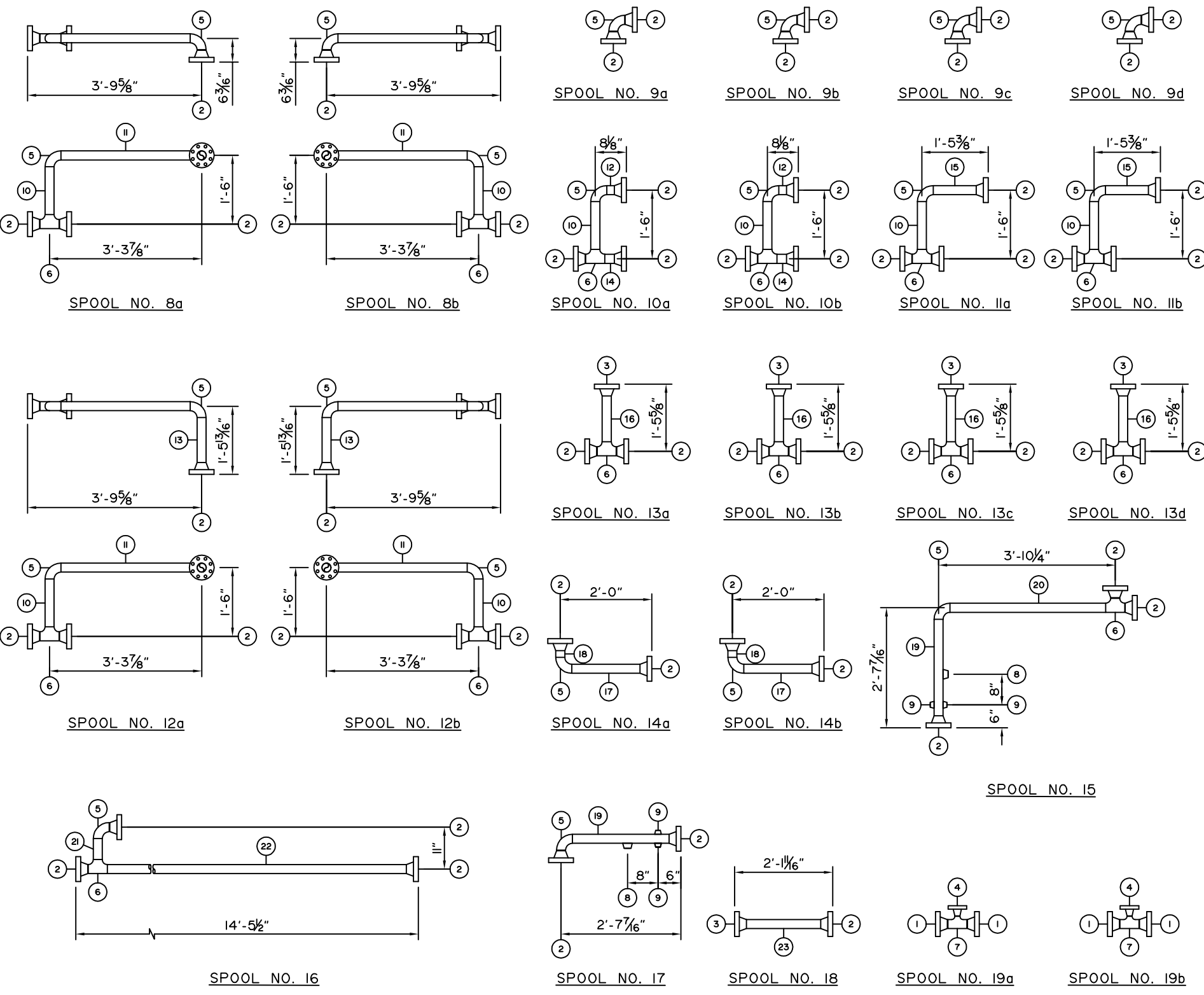


## BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
1	1	RFWN, 6" 600 ANSI SCH. 80, SA350LF2 CLI
2	10	RFWN, 4" 600 ANSI SCH. 80, SAI05N
3	8	RFWN, 4" 600 ANSI SCH. 80, SA350LF2 CLI
4	4	RFWN, 3" 600 ANSI SCH. 80, SAI05N
5	13	RFWN, 2" 600 ANSI SCH. 80, SAI05N
6	4	WELD 90, 4" SCH. 80 LR, SA234WPB
7	4	WELD 90, 4" SCH. 80 LR, SA420WPL6
8	5	WELD 90, 2" SCH. 80 LR, SA234WPB
9	2	WELD 45, 4" SCH. 80 LR, SA420WPL6
10	1	WELD TEE, 6" SCH. 80, SA234WPB
11	2	WELD CONC, 6" X 4" SCH. 80, SA234WPB
12	4	WELD CONC, 4" X 3" SCH. 80, SA234WPB
13	5	WOL, 2" SCH. 80, SAI05N
14	2	TOL, 1" 3M SA350LF2 CLI
15	3	TOL, 1" 3M SAI05N
16	2	TOL, 3/4" 3M SA350LF2 CLI
17	5	TOL, 3/4" 3M SAI05N
18	1	PIPE, 6 SCH. 80 (0.432"), SA333GR6 X 7 1/8" LONG
19	2	PIPE, 4 SCH. 80 (0.337"), SAI06B X 56 3/4" LONG
20	2	PIPE, 4 SCH. 80 (0.337"), SA333GR6 X 89 3/8" LONG
21	2	PIPE, 4 SCH. 80 (0.337"), SA333GR6 X 9 7/8" LONG
22	2	PIPE, 4 SCH. 80 (0.337"), SA333GR6 X 12 1/4" LONG
23	2	PIPE, 4 SCH. 80 (0.337"), SA333GR6 X 37" LONG
24	2	PIPE, 4 SCH. 80 (0.337"), SAI06B X 11 1/2" LONG
25	2	PIPE, 4 SCH. 80 (0.337"), SAI06B X 16 1/8" LONG
26	2	PIPE, 4 SCH. 80 (0.337"), SAI06B X 12 1/8" LONG
27	2	PIPE, 4 SCH. 80 (0.337"), SAI06B X 13 13/16" LONG
28	2	PIPE, 2 SCH. 80 (0.218"), SAI06B X 12" LONG
29	2	PIPE, 2 SCH. 80 (0.218"), SAI06B X 38" LONG
30	4	PIPE, 2 SCH. 80 (0.218"), SAI06B X 6 1/2" LONG
31	1	PIPE, 2 SCH. 80 (0.218"), SAI06B X 7 3/16" LONG

2	02	05	18	AS BUILT	CK	CK	.
1	12	20	17	SPOOL 6 REVISED	CK	CK	.
0	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK	.
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D	APP'D

BROMLEY MECHANICAL SERVICES			
925 - 23rd Street S.W., Medicine Hat, Alberta, Canada, T1A 8R1 (403) 526-3142			
CLIENT		ARC RESOURCES LTD.	
PROJECT		TYPICAL DUAL/TEST SEPARATOR PACKAGE	
TITLE		PIPING SPOOLS 1-7	
Wo No.:	35527		
DRAWN BY:	C. KARPIUK	REV. No.:	2
DATE: MM/DD/YY	10/31/17	DATE: MM/DD/YY	02/05/18
SCALE: 3/8"=1'		CAD No.: 35527-SPOOLS-1	

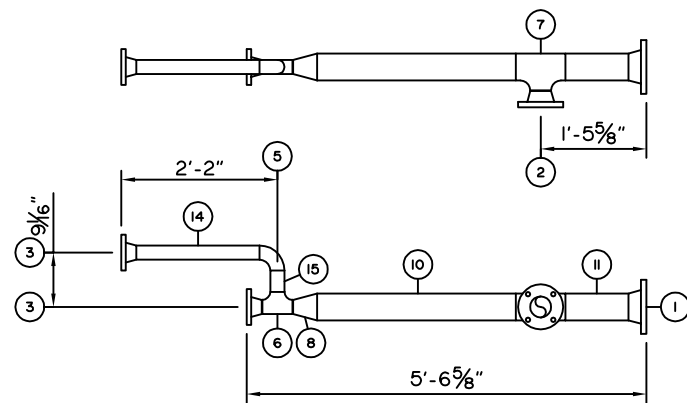


BILL OF MATERIAL

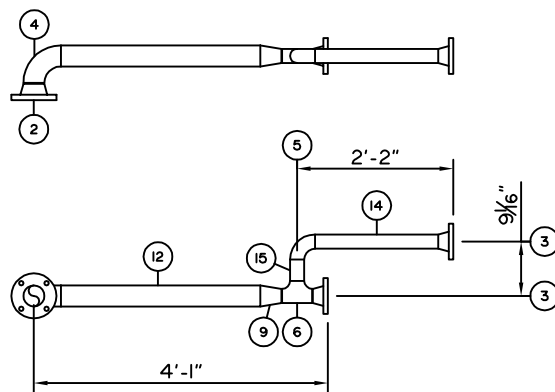
ITEM	QTY.	DESCRIPTION
1	4	RFWN, 2" 600 ANSI SCH. 160, SAI05N
2	53	RFWN, 2" 600 ANSI SCH. 80, SAI05N
3	5	RFWN, 2" 600 ANSI SCH. 80, SA350LF2 CLI
4	2	RFWN, 1" 600 ANSI SCH. 160, SAI05N
5	21	WELD 90, 2" SCH. 80 LR, SA234WPB
6	14	WELD TEE, 2" SCH. 80, SA234WPB
7	2	WELD RED TEE, 2" X 1" SCH. 160, SA234WPB
8	2	TOL, 1" 3M SAI05N
9	4	TOL, 1/2" 3M SAI05N
10	8	PIPE, 2" SCH. 80 (0.218"), SAI06B X 12 1/2" LONG
11	4	PIPE, 2" SCH. 80 (0.218"), SAI06B X 33 7/8" LONG
12	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 2" LONG
13	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 11 3/4" LONG
14	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 2 1/2" LONG
15	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 11 1/4" LONG
16	4	PIPE, 2" SCH. 80 (0.218"), SA333GR6 X 12" LONG
17	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 17 7/8" LONG
18	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 1 3/4" LONG
19	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 25 5/16" LONG
20	1	PIPE, 2" SCH. 80 (0.218"), SAI06B X 40 3/4" LONG
21	1	PIPE, 2" SCH. 80 (0.218"), SAI06B X 5 1/2" LONG
22	1	PIPE, 2" SCH. 80 (0.218"), SAI06B X 162 1/8" LONG
23	1	PIPE, 2" SCH. 80 (0.218"), SA333GR6 X 19 7/16" LONG

<div>2</div>	02	05	18	AS BUILT	CK	CK	.
<div>1</div>	12	21	17	REVISED BILL OF MATERIALS, CHANGED ITEMS 4 & 7 TO 1"	CK	CK	.
<div>0</div>	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK	.
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D	APP'D
	DATE						
ASME B31.3 2014 ED. (NORMAL SERVICE)							
BMS AQP (S) 1009 REGISTERED WELD PROCEDURE 505.2							
FOR PIPING TOLERANCES, SEE WELDER HANDBOOK							
FLUID TYPE: WATER, OIL, GAS							
M.A.W.P.: 1440 PSIG (9929 kPag) AT +130°F (+54°C)							
M.D.M.T.: -20°F (-29°C) AT 1440 PSIG (9929 kPag)							
P.W.H.T.: 1150°F FOR 60 MIN.							
RADIOGRAPHY: 100%							
CORROSION ALLOWANCE: 1/8"							
HYDROSTATIC TEST: 2160 PSIG (14893 kPag)							

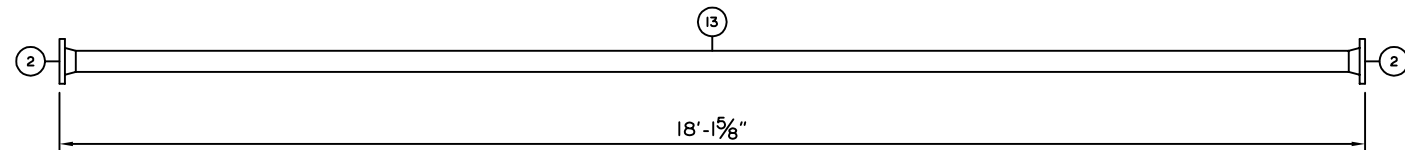
BROMLEY MECHANICAL SERVICES		
925 - 23rd Street S.W., Medicine Hat, Alberta, Canada, T1A 8R1 (403) 526-3142		
CLIENT	ARC RESOURCES LTD.	
PROJECT	TYPICAL DUAL/TEST SEPARATOR PACKAGE	
TITLE	PIPING SPOOLS 8-19	
Wo No.:	35527	
DRAWN BY:	C. KARPIUK	REV. No.: 2
DATE: MM/DD/YY	10/31/17	SCALE: 3/8"=1'
		CAD No.: 35527-SPOOLS-2



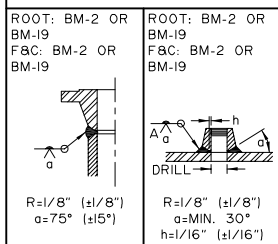
SPOOL NO. 20a



SPOOL NO. 20b



SPOOL NO. 21

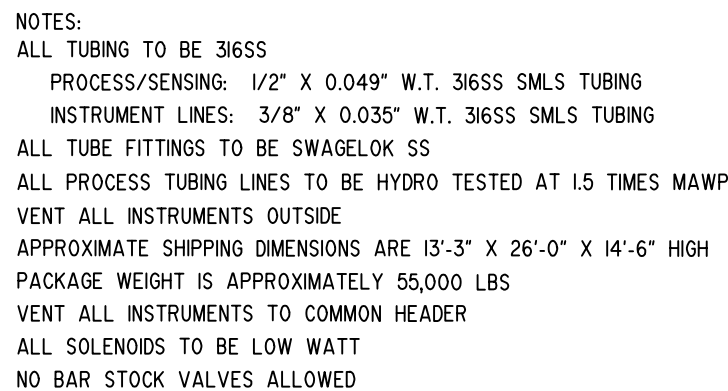



## BILL OF MATERIAL

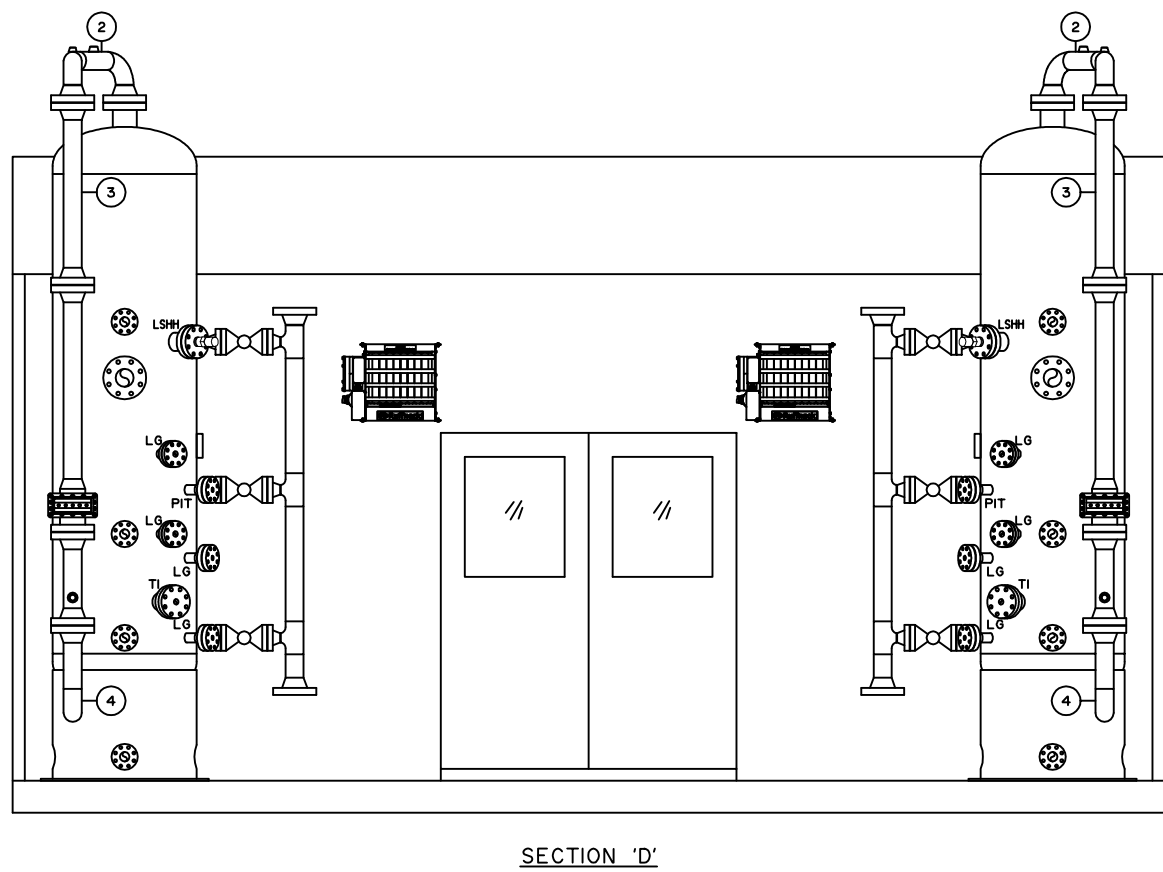
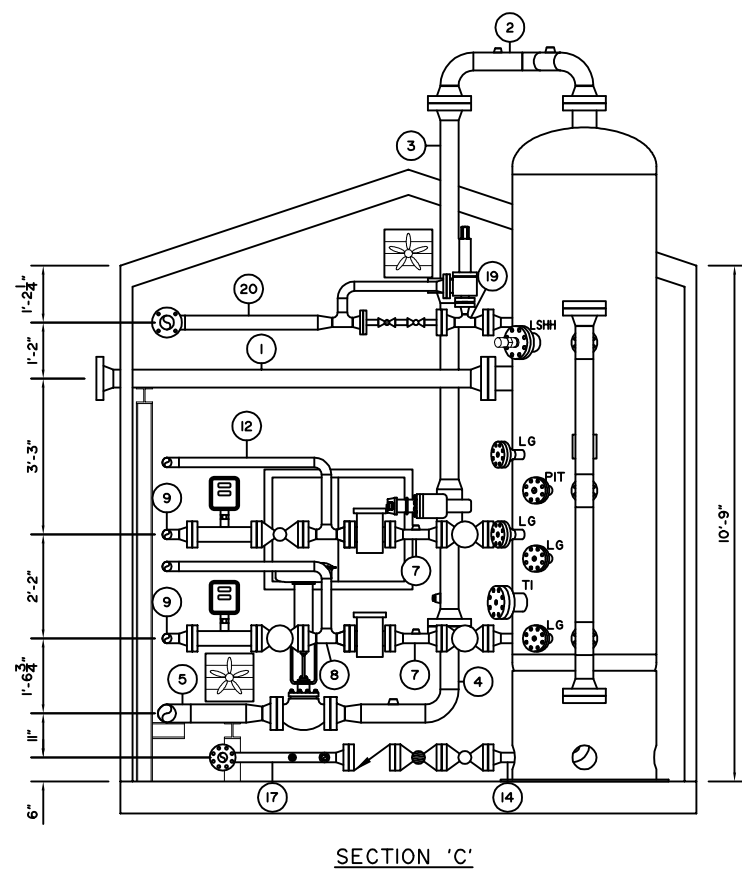
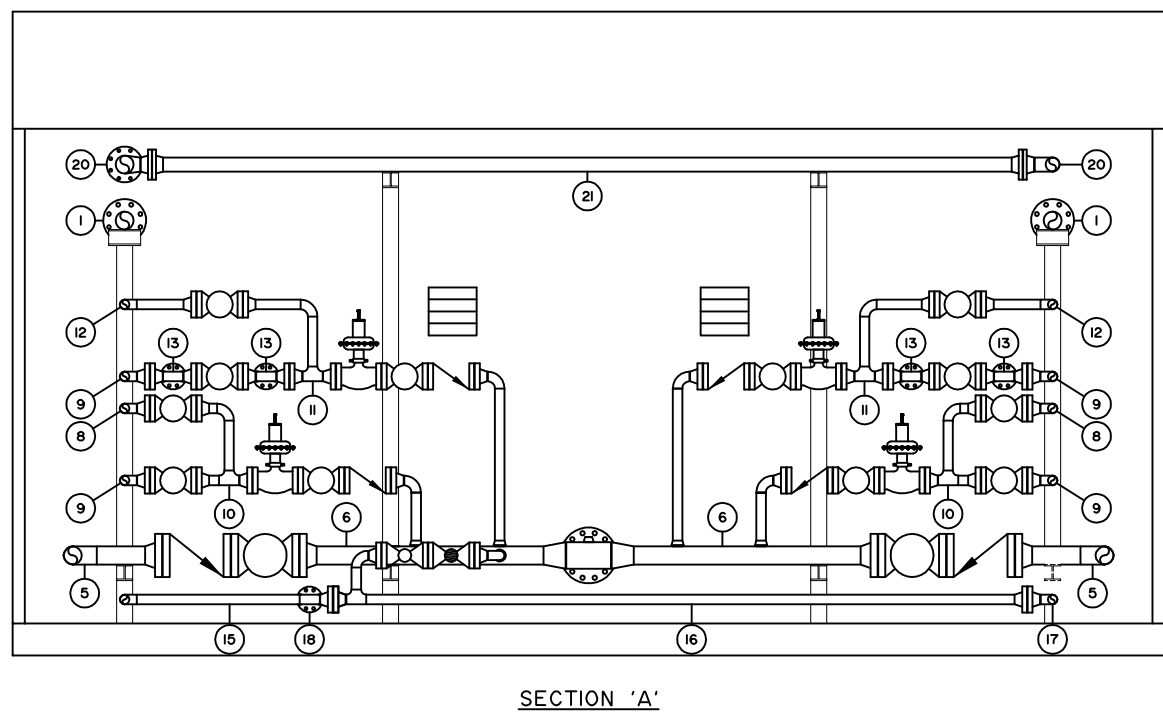
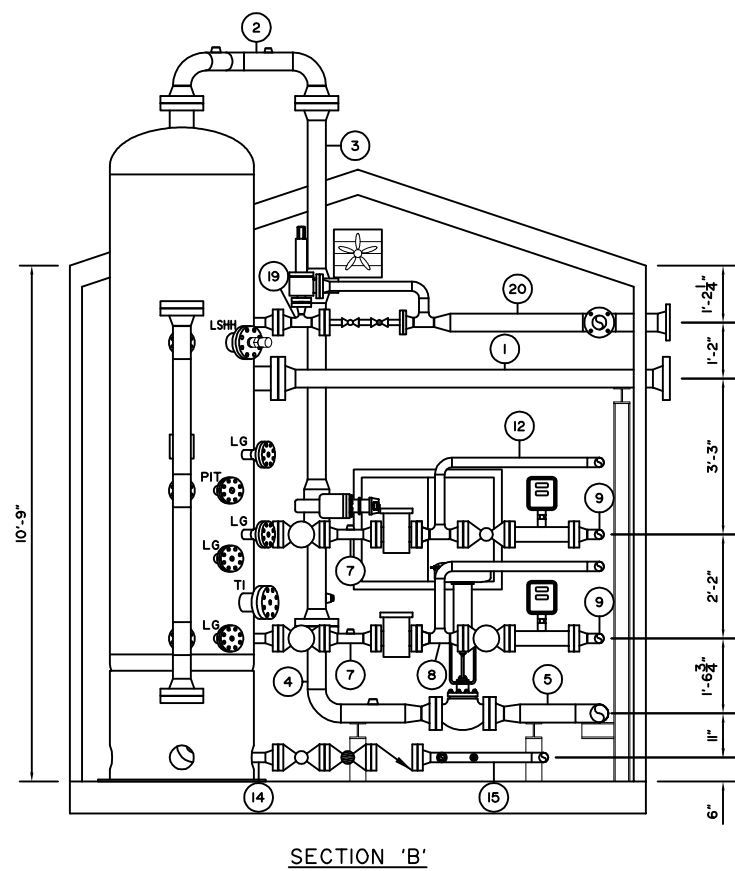
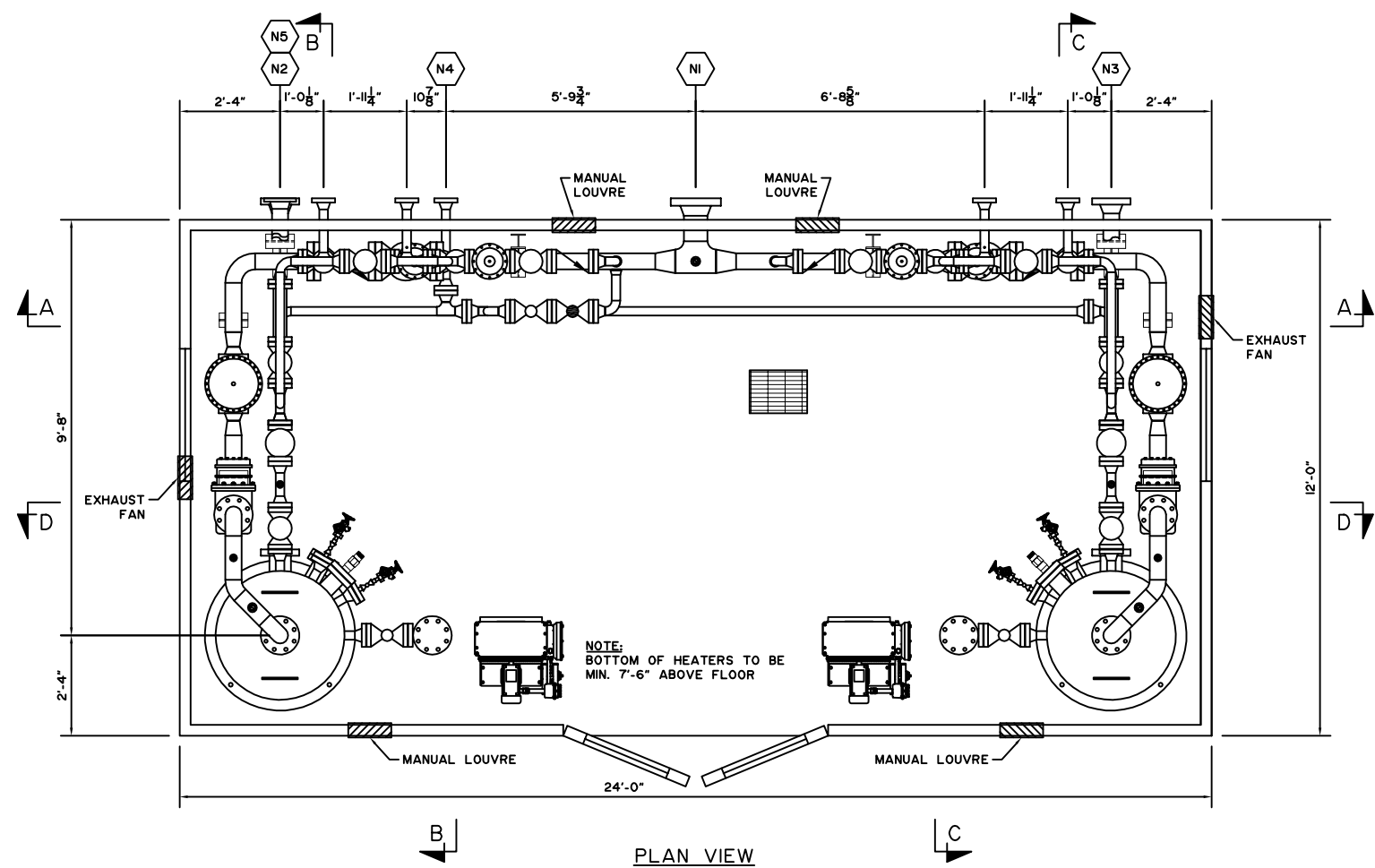
ITEM	QTY.	DESCRIPTION
1	1	RFWN, 4" ISO ANSI SCH. 40, SA350LF2 CLI
2	4	RFWN, 3" ISO ANSI SCH. 40, SAI05N
3	4	RFWN, 2" ISO ANSI SCH. 80, SAI05N
4	1	WELD 90, 3" SCH. 80 LR, SA234WPB
5	2	WELD 90, 2" SCH. 80 LR, SA234WPB
6	2	WELD TEE, 2" SCH. 80, SA234WPB
7	1	WELD RED TEE, 4" X 3" SCH. 40, SA234WPB
8	1	WELD CONC, 4" X 2" SCH. 40/80, SA234WPB
9	1	WELD CONC, 3" X 2" SCH. 40/80, SA234WPB
10	1	PIPE, 4" SCH. 40 (0.237"), SAI06B X 33 1/8" LONG
11	1	PIPE, 4" SCH. 40 (0.237"), SA3336R6 X 10 1/2" LONG
12	1	PIPE, 3" SCH. 40 (0.216"), SAI06B X 33 1/4" LONG
13	1	PIPE, 3" SCH. 40 (0.216"), SAI06B X 212 1/8" LONG
14	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 20 1/2" LONG
15	2	PIPE, 2" SCH. 80 (0.218"), SAI06B X 3 9/16" LONG
16		
17		
18		
19		
20		

	02	05	18	AS BUILT	CK	CK	-
	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK	-
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D	APP'D
			DATE				
ASME B31.3 2014 ED. (NORMAL SERVICE)							
BMS AQP (S) 1009 REGISTERED WELD PROCEDURE 505.2							
FOR PIPING TOLERANCES, SEE WELDER HANDBOOK							
FLUID TYPE: WATER, OIL, GAS							
M.A.W.P.: 285 PSIG (1965 kPag) AT +130°F (+54°C)							
M.D.M.T.: -20°F (-29°C) AT 285 PSIG (1965 kPag)							
P.W.H.T.: 1150°F FOR 60 MIN.							
RADIOGRAPHY: 100%							
CORROSION ALLOWANCE: 1/8"							
HYDROSTATIC TEST: 428 PSIG (2951 kPag)							

BROMLEY MECHANICAL SERVICES			
925 - 23rd Street S.W., Medicine Hat, Alberta, Canada, T1A 8R1 (403) 526-3142			
CLIENT	ARC RESOURCES LTD.		
PROJECT	TYPICAL DUAL/TEST SEPARATOR PACKAGE		
TITLE	PIPING SPOOLS 20-21		
Wo No.:	35527		
DRAWN BY:	C. KARPIUK	REV. No.:	1
DATE: MM/DD/YY	10/31/17	DATE: MM/DD/YY	02/05/18
		SCALE:	3/8"=1'
		CAD No.:	35527-SPOOLS-3



CLIENT		 <p><b>BROMLEY</b> MECHANICAL SERVICES A DIVISION OF ARGO SALES INC</p> <p>925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1 Ph: (403) 526-3142 Fax: (403) 526-1061 Toll Free (800) 215-9806</p>	
ARC RESOURCES LTD.			
PROJECT			
TYPICAL DUAL/TEST SEPARATOR PACKAGE			
TITLE			
P&ID-I			
WO No.: 35527			
DRAWN BY: C. KARPIUK	REVISION: I	DATE: MM/DD/YY	02/05/18
DATE: MM/DD/YY 10/11/17	SCALE: N.T.S.	CAD No.:	35527-P&ID-I



## BILL OF MATERIAL

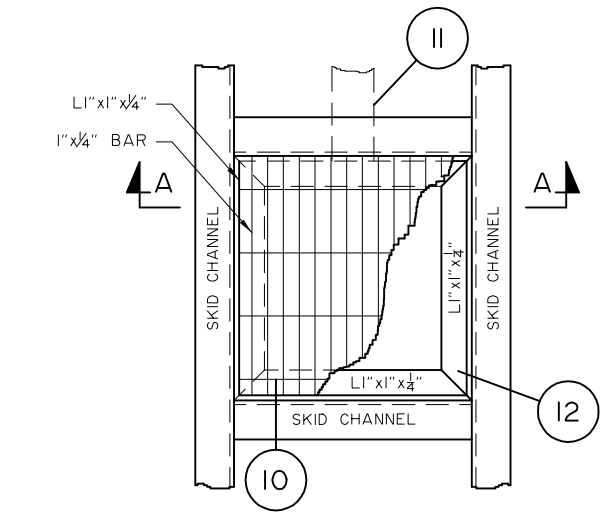
ITEM	QTY.	DESCRIPTION
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2	1	SPOOL 2 - SEE DRAWING 35527-SPOOLS-1
3	1	SPOOL 3 - SEE DRAWING 35527-SPOOLS-1
4	1	SPOOL 4 - SEE DRAWING 35527-SPOOLS-1
5	1	SPOOL 5 - SEE DRAWING 35527-SPOOLS-1
6	1	SPOOL 6 - SEE DRAWING 35527-SPOOLS-1
7	1	SPOOL 7 - SEE DRAWING 35527-SPOOLS-1
8	1	SPOOL 8 - SEE DRAWING 35527-SPOOLS-2
9	1	SPOOL 9 - SEE DRAWING 35527-SPOOLS-2
10	1	SPOOL 10 - SEE DRAWING 35527-SPOOLS-2
11	1	SPOOL 11 - SEE DRAWING 35527-SPOOLS-2
12	1	SPOOL 12 - SEE DRAWING 35527-SPOOLS-2
13	1	SPOOL 13 - SEE DRAWING 35527-SPOOLS-2
14	1	SPOOL 14 - SEE DRAWING 35527-SPOOLS-2
15	1	SPOOL 15 - SEE DRAWING 35527-SPOOLS-2
16	1	SPOOL 16 - SEE DRAWING 35527-SPOOLS-2
17	1	SPOOL 17 - SEE DRAWING 35527-SPOOLS-2
18	1	SPOOL 18 - SEE DRAWING 35527-SPOOLS-2
19	1	SPOOL 19 - SEE DRAWING 35527-SPOOLS-2
20	1	SPOOL 20 - SEE DRAWING 35527-SPOOLS-3
21	1	SPOOL 21 - SEE DRAWING 35527-SPOOLS-3
22	2	RFHB, 4" 600 ANSI TAPPED 1", SAI05N
23	2	RFHB, 3" 600 ANSI TAPPED 2", SAI05N
24	2	RFHB, 3" 600 ANSI TAPPED 3/4", SAI05N
25	4	RFHB, 2" 600 ANSI TAPPED 1", SAI05N
26	8	RFHB, 2" 600 ANSI TAPPED 3/4", SAI05N
27	2	RFHB, 2" ISO ANSI TAPPED 1", SAI05N
28	18	316 SPIRALWND GSKT, 4" 600 ANSI, NASB
29	8	316 SPIRALWND GSKT, 3" 600 ANSI, NASB
30	108	316 SPIRALWND GSKT, 2" 600 ANSI, NASB
31	2	316 SPIRALWND GSKT, 1" 600 ANSI, NASB
32	2	316 SPIRALWND GSKT, 3" ISO ANSI, NASB
33	2	316 SPIRALWND GSKT, 2" ISO ANSI, NASB
34	144	B7M STUD, 7/8" X 5 3/4", SAI93-B7M
35	64	B7M STUD, 3/4" X 5", SAI93-B7M
36	8	B7M STUD, 3/4" X 4 1/4", SAI93-B7M
37	864	B7M STUD, 5/8" X 4 1/4", SAI93-B7M
38	16	B7M STUD, 5/8" X 3 1/2", SAI93-B7M
39	16	B7M STUD, 5/8" X 3 1/4", SAI93-B7M
40	288	2HM HEX NUT, 7/8", SAI94-2HM
41	144	2HM HEX NUT, 3/4", SAI94-2HM
42	1792	2HM HEX NUT, 5/8", SAI94-2HM

NOTES:  
 ALL STUD LENGTHS GIVEN ARE THREAD TO THREAD  
 ALL PROCESS THREADED PIPING TO BE SCH. XXH  
 ALL UTILITY THREADED PIPING TO BE SCH. 80  
 ALL THREADED FITTINGS TO BE 3000 PSI  
 APPROXIMATE SHIPPING DIMENSIONS ARE 13'-3" X 26'-0" X 14'-6" HIGH  
 PACKAGE WEIGHT IS APPROXIMATELY 40,000 LBS

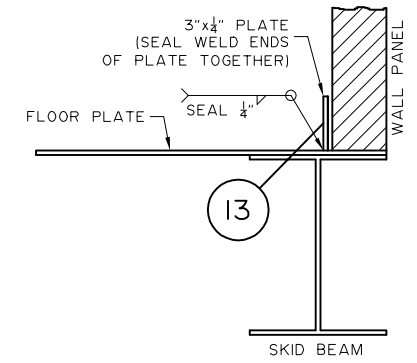
△	02	05	18	AS BUILT	CK	CK
△	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D APP'D

CLIENT:		<b>BROMLEY</b> MECHANICAL SERVICES <small>A DIVISION OF FARGO SALES INC</small> 925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1 Ph: (403) 526-3142 Fax: (403) 526-1061 Toll Free (800) 215-9806	
ARC RESOURCES LTD.			
PROJECT:		TYPICAL GROUP/TEST SEPARATOR PACKAGE	
TITLE:		LAYOUT-I	
Wo No.:	35527	REV. No.:	I
DRAWN BY:	C. KARPIUK	DATE: MM/DD/YY	02/05/18
DATE: MM/DD/YY	10/11/17	SCALE:	1/4"=1'-0"
		CAD No.:	35527-LAYOUT-I

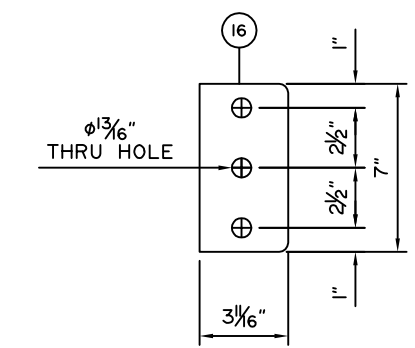




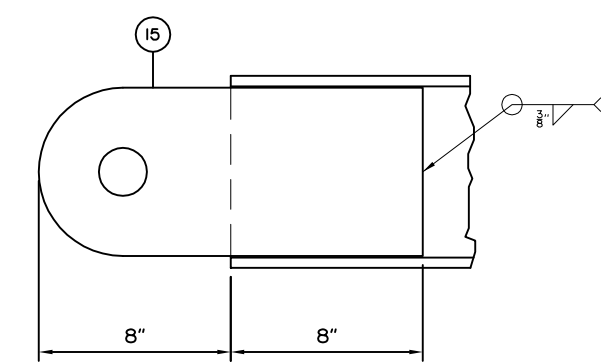
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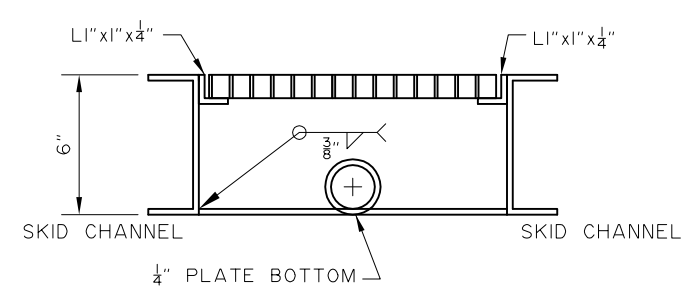
CONTAINMENT  
BARRIER  
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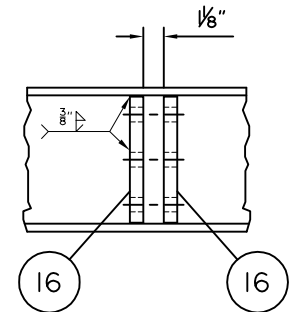
WEB STIFFENER  
DETAIL  
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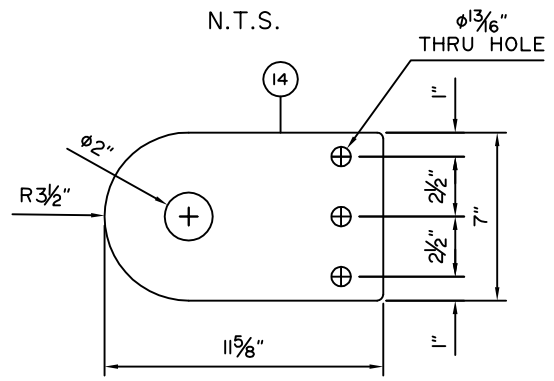
LIFTING LUG  
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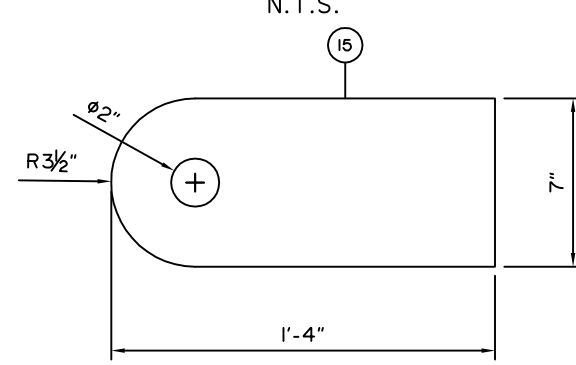
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SECTION 'A-A'  
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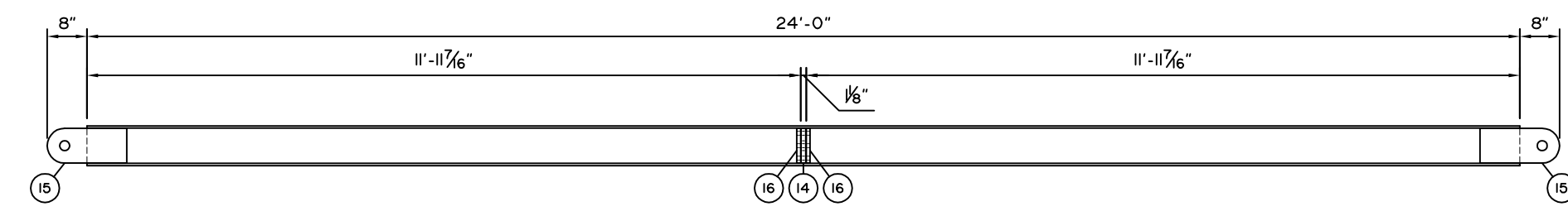
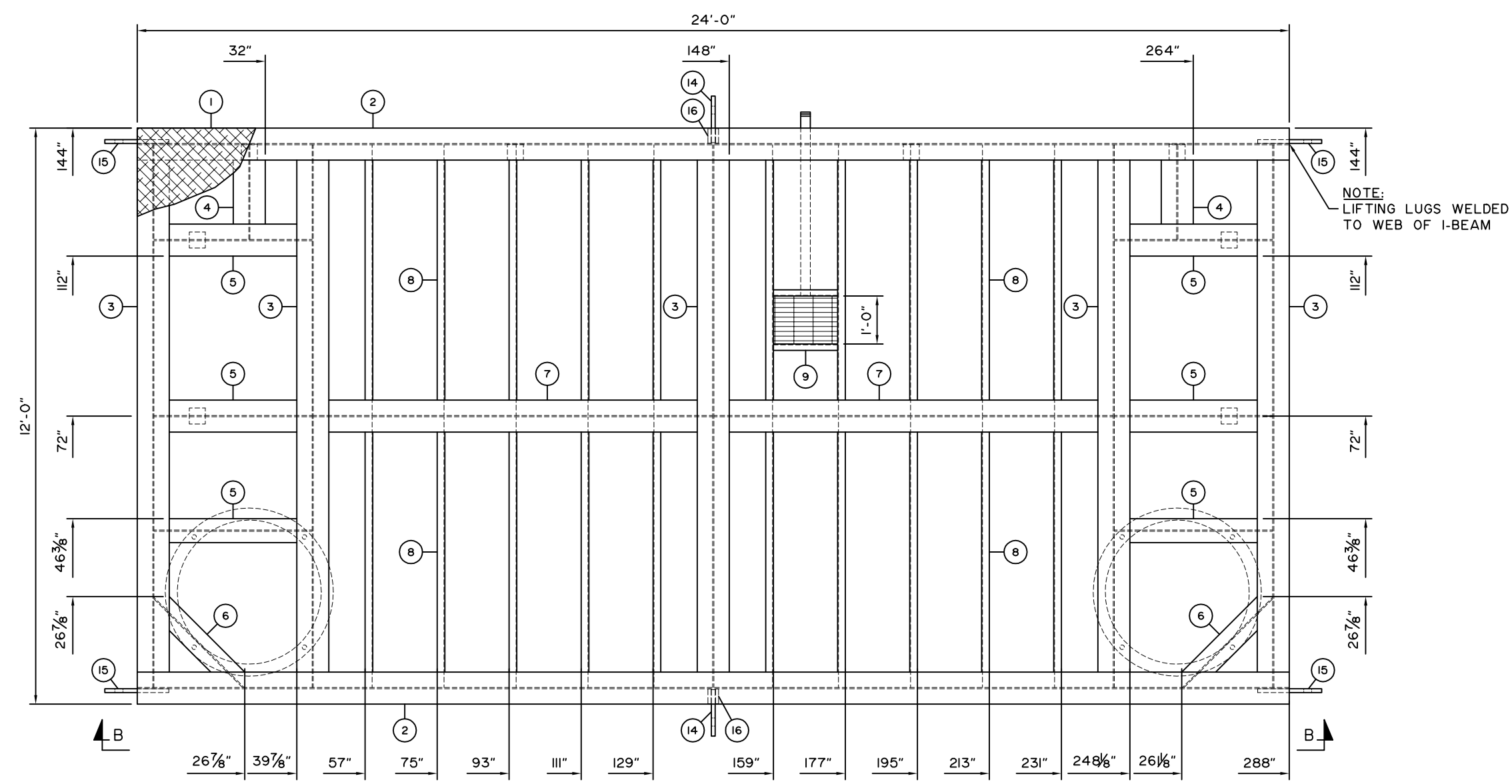
WEB STIFFENER  
PLACEMENT  
N.T.S.



REMOVABLE  
LIFT LUG DETAIL  
N.T.S.



LIFT LUG  
DETAIL  
N.T.S.




SECTION 'B-B'

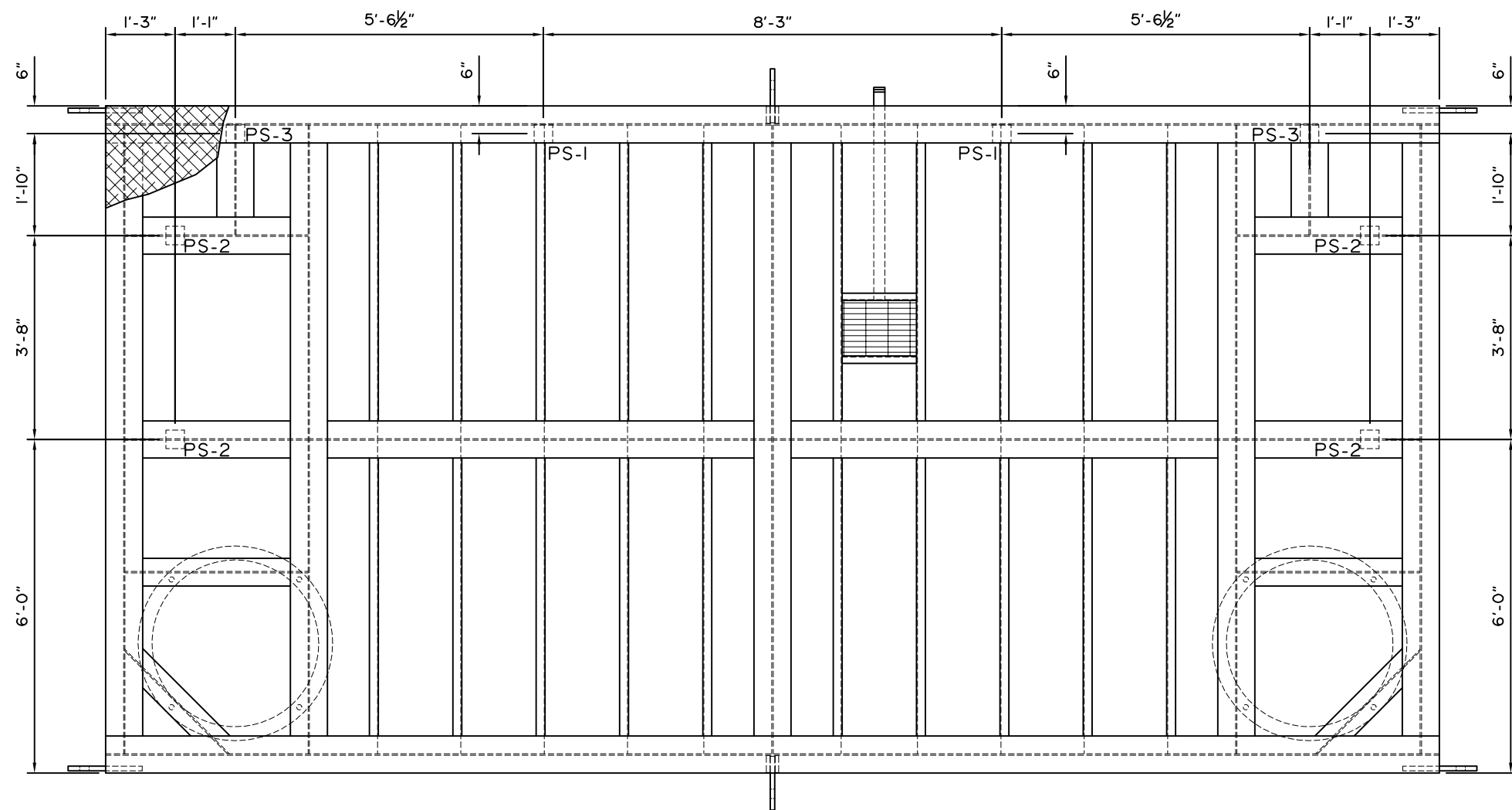
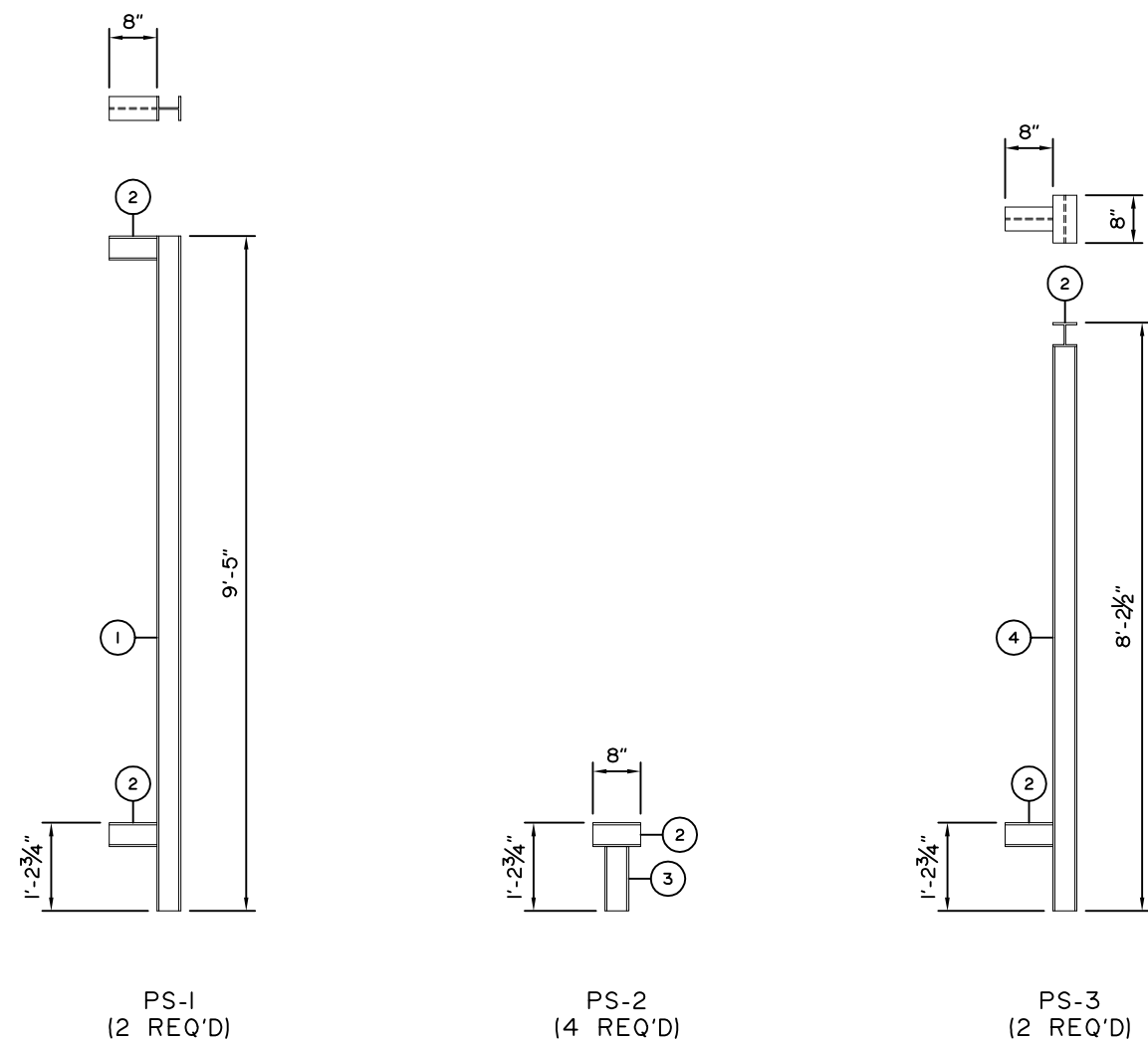
## BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
1	288'	FLOOR (CHECKER) PLATE, 1/4", A36/44W (12'-0" X 24'-0")
2	2	W8 X 31 LB/FT X 288" LONG, 350W/50W BEAM
3	5	W8 X 31 LB/FT X 135 11/16" LONG, 350W/50W BEAM
4	2	W8 X 31 LB/FT X 23 11/16" LONG, 350W/50W BEAM
5	6	W8 X 31 LB/FT X 39 9/16" LONG, 350W/50W BEAM
6	2	W8 X 31 LB/FT X 31 15/16" LONG, 350W/50W BEAM
7	2	W8 X 31 LB/FT X 99 7/8" LONG, 350W/50W BEAM
8	20	STD CHANNEL, C6 X 8.2 LB/FT X 67 11/16" LONG, A36/44W
9	2	STD CHANNEL, C4 X 5.4 LB/FT X 16 1/16" LONG, A36/44W
10	2'	U BAR GRATING, 1" X 3/16", CS
11	1	PIPE, 2" SCH. 80 (0.218") X 46" LONG, SA106B
12	5'	ANGLE, L1.250" X 1.250" X 1/4", A36/44W
13	72'	FLAT, 1/4" X 3", A36/44W
14	2	REMOVABLE LIFT LUG - PLATE, 1", A36/44W, SEE DETAIL
15	4	LIFT LUG - PLATE, 1", A36/44W, SEE DETAIL
16	4	WEB STIFFENER - PLATE, 3/4", A36/44W, SEE DETAIL

- NOTES:
- SKID UNDERSIDE TO HAVE 3" INSULATION
  - INSTALL FLAT BAR AT 3 1/2" IN FROM BUILDING EDGE
  - SKID WEIGHT IS APPROXIMATELY 9,000 LBS
  - SEE BROMLEY INTERNAL DRAWING: "BMS-SKID-FAB: SKID
  - WELDING SPECS FOR FURTHER WELDING AND COPING DETAILS
  - SKID TO BE PAINTED BLACK

2	02	05	18	AS BUILT	CK	CK	.
1	11	28	17	LIFTING LUGS RELOCATED (x4) (WELD LUGS TO WEB OF I-BEAM)	CK	CK	.
0	11	06	17	ISSUED FOR CONSTRUCTION	CK	CK	.
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D	APP'D

CLIENT:		<div><b>BROMLEY</b> <b>MECHANICAL SERVICES</b> <small>A DIVISION OF FARGO SALES INC</small></div> <div>925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1 Ph: (403) 526-3142 Fax: (403) 526-1061 Toll Free (800) 215-9806</div>	
ARC RESOURCES LTD.			
PROJECT: TYPICAL DUAL/TEST SEPARATOR PACKAGE			
TITLE: SKID			
Wo No.: 35527		REV. No.: 2	
DRAWN BY: C. KARPIUK		DATE: MM/DD/YY 02/05/18	
DATE: MM/DD/YY 10/11/17		SCALE: 3/8"=1'-0"	
		CAD No.: 35527-SKID	



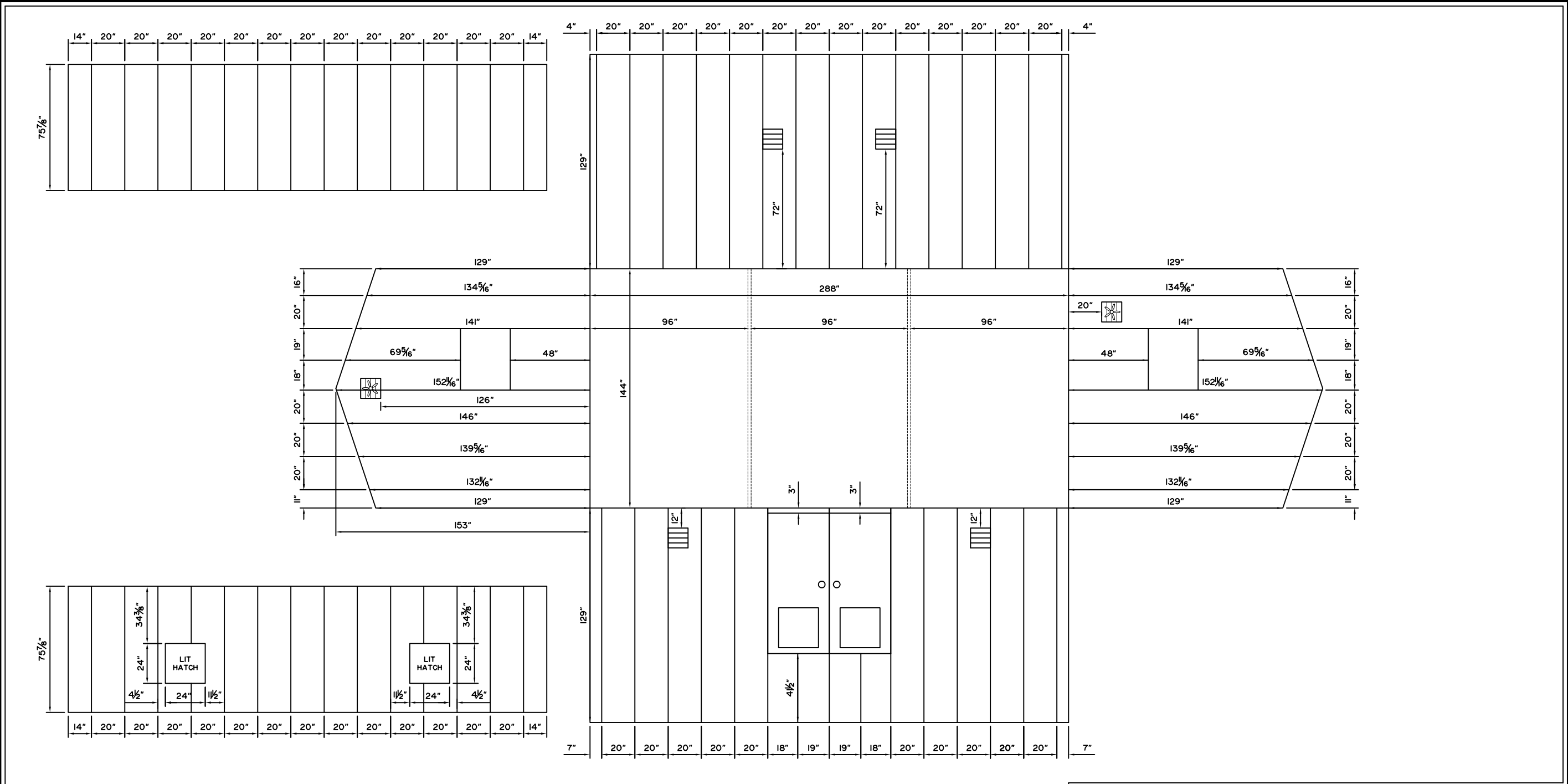
## BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
1	2	W4 X I3 LB/FT X I13" LONG, 350W/50W BEAM
2	I2	W4 X I3 LB/FT X 8" LONG, 350W/50W BEAM
3	4	W4 X I3 LB/FT X IO 3/4" LONG, 350W/50W BEAM
4	2	W4 X I3 LB/FT X 94 I/2" LONG, 350W/50W BEAM

NOTES:  
SEE BROMLEY INTERNAL DRAWING: "BMS-SKID-FAB: SKID"  
WELDING SPECS FOR FURTHER WELDING AND COPING DETAILS

<div>1</div>	02	05	I8	AS BUILT	CK	CK	.
<div>0</div>	II	06	I7	ISSUED FOR CONSTRUCTION	CK	CK	.
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D	APP'D
	DATE						

CLIENT:	ARC RESOURCES LTD.	<b>BROMLEY</b> MECHANICAL SERVICES A DIVISION OF FARGO SALES INC 925 23 Street SW, Medicine Hat, Alberta, Canada T1A 8R1 Ph: (403) 526-3142 Fax: (403) 526-1061 Toll Free (800) 215-9806
PROJECT:	TYPICAL DUAL/TEST SEPARATOR PACKAGE	
TITLE:	PIPE SUPPORTS	
Wo No.:	35527	DATE: MM/DD/YY 02/05/18
DRAWN BY:	C. KARPIUK	REV. No.: I
DATE: MM/DD/YY	10/11/17	SCALE: 3/8"=1'-0"
		CAD No.: 35527-SUPPORT



	02	05	18	AS BUILT	CK	CK
	11	08	17	ISSUED FOR CONSTRUCTION	CK	CK
REV. No.	MM	DD	YY	DESCRIPTION	BY	CHK'D
					APP'D	

BROMLEY MECHANICAL SERVICES		
925 - 23rd Street S.W., Medicine Hat, Alberta, Canada, T1A 8R1 (403) 526-3142		
CLIENT ARC RESOURCES LTD.		
PROJECT TYPICAL DUAL/TEST SEPARATOR PACKAGE		
TITLE BUILDING		
Wo No.:	35527	
DRAWN BY:	C. KARPIUK	REV. No.: 1
DATE: MM/DD/YY	10/11/17	DATE: MM/DD/YY 02/05/18
	SCALE: 3/16"=1'	CAD No.: 35527-BUILDING