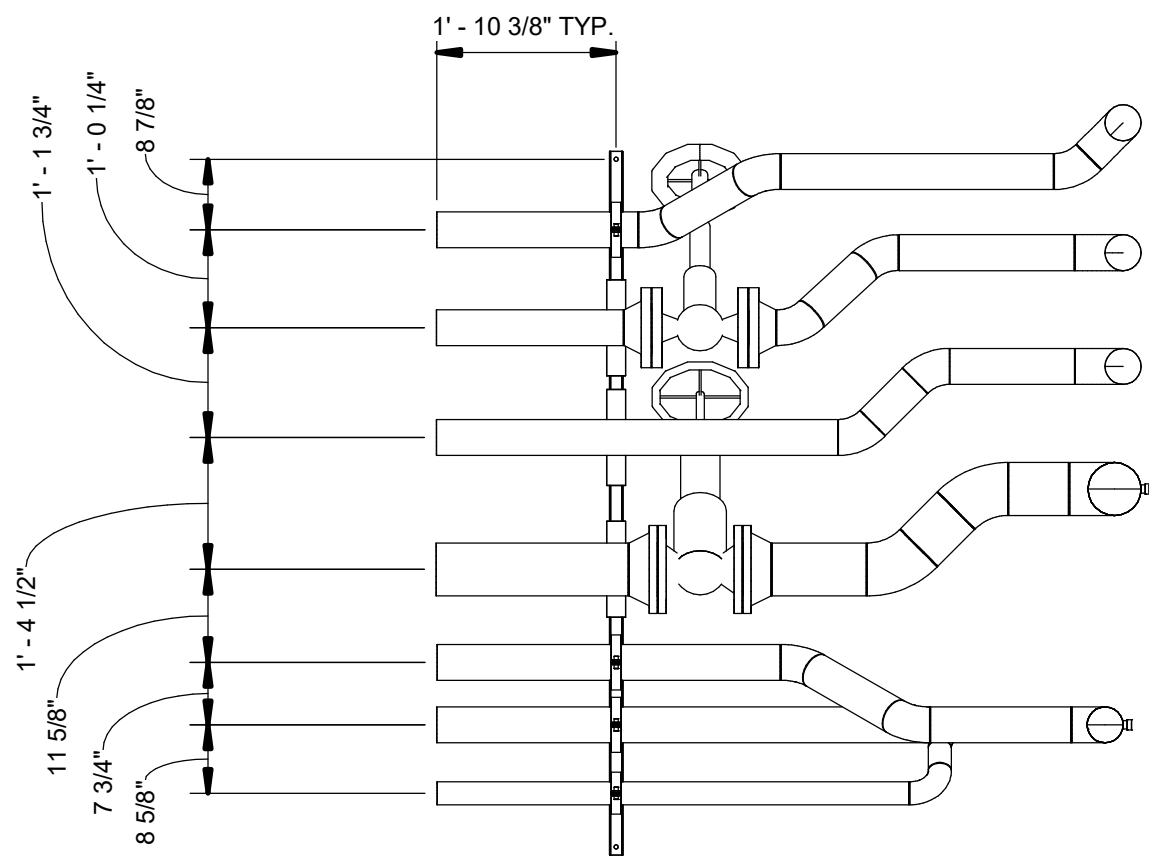
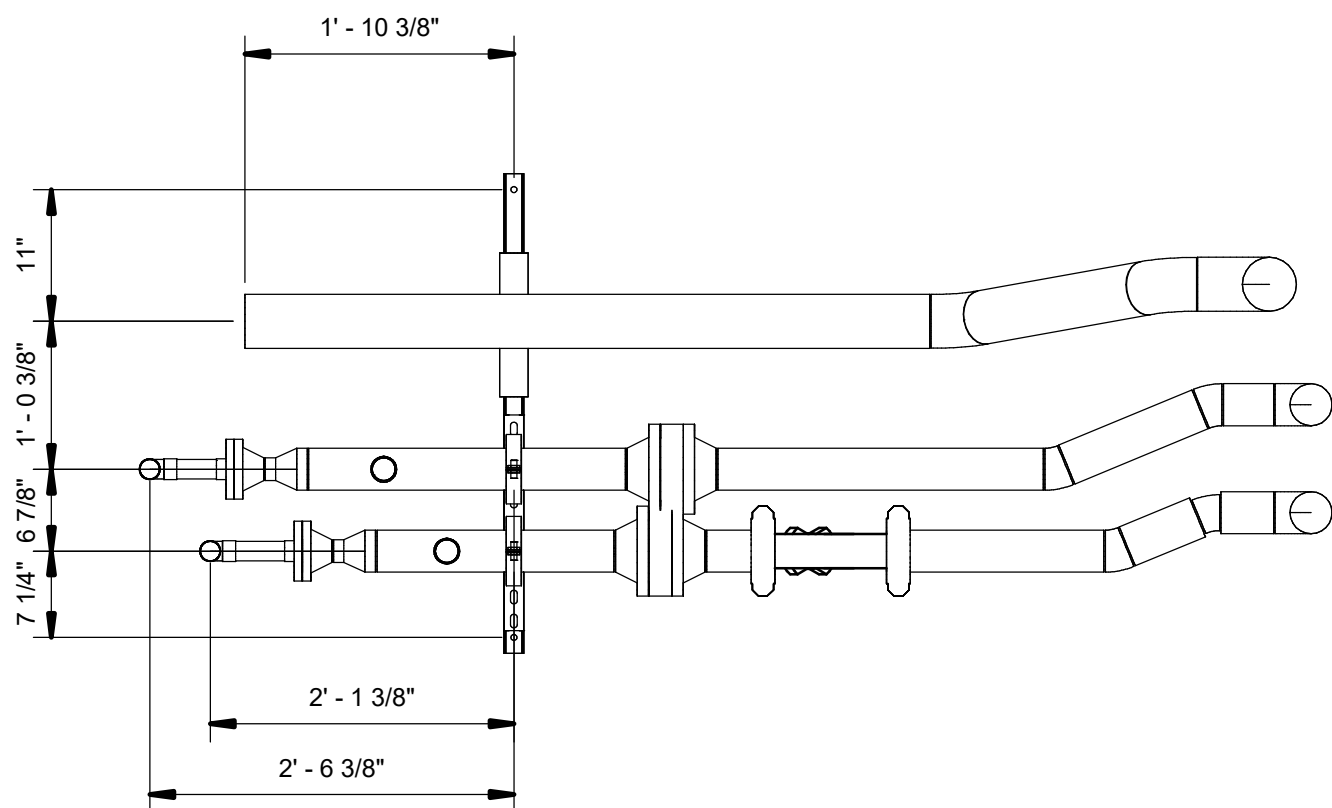


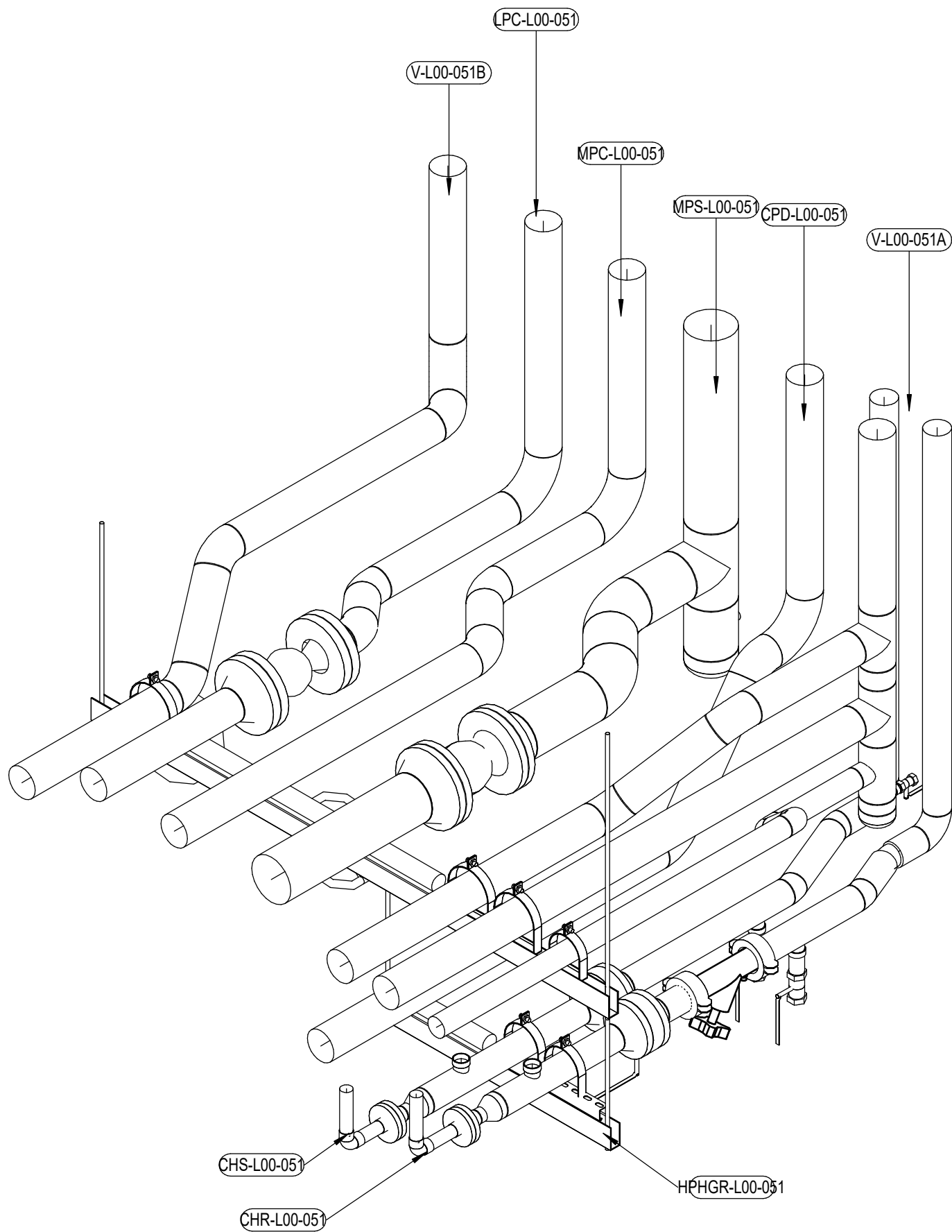
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7/28/2021 8:33:33 AM



2 HP-L00-051 TOP RACK
SCALE:



3 HP-L00-051 BOTTOM RACK
SCALE:



1 HP-L00-051 ISOMETRIC
SCALE:

A1	A3	B1	B3
A2	A4	B2	B4

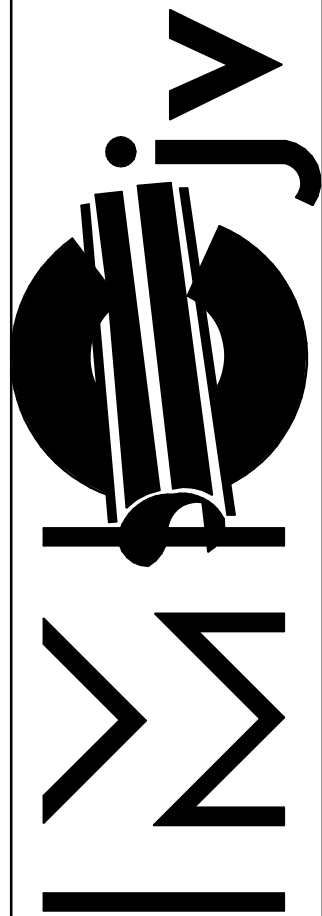
JOB: WASH U NRB

TICKET:

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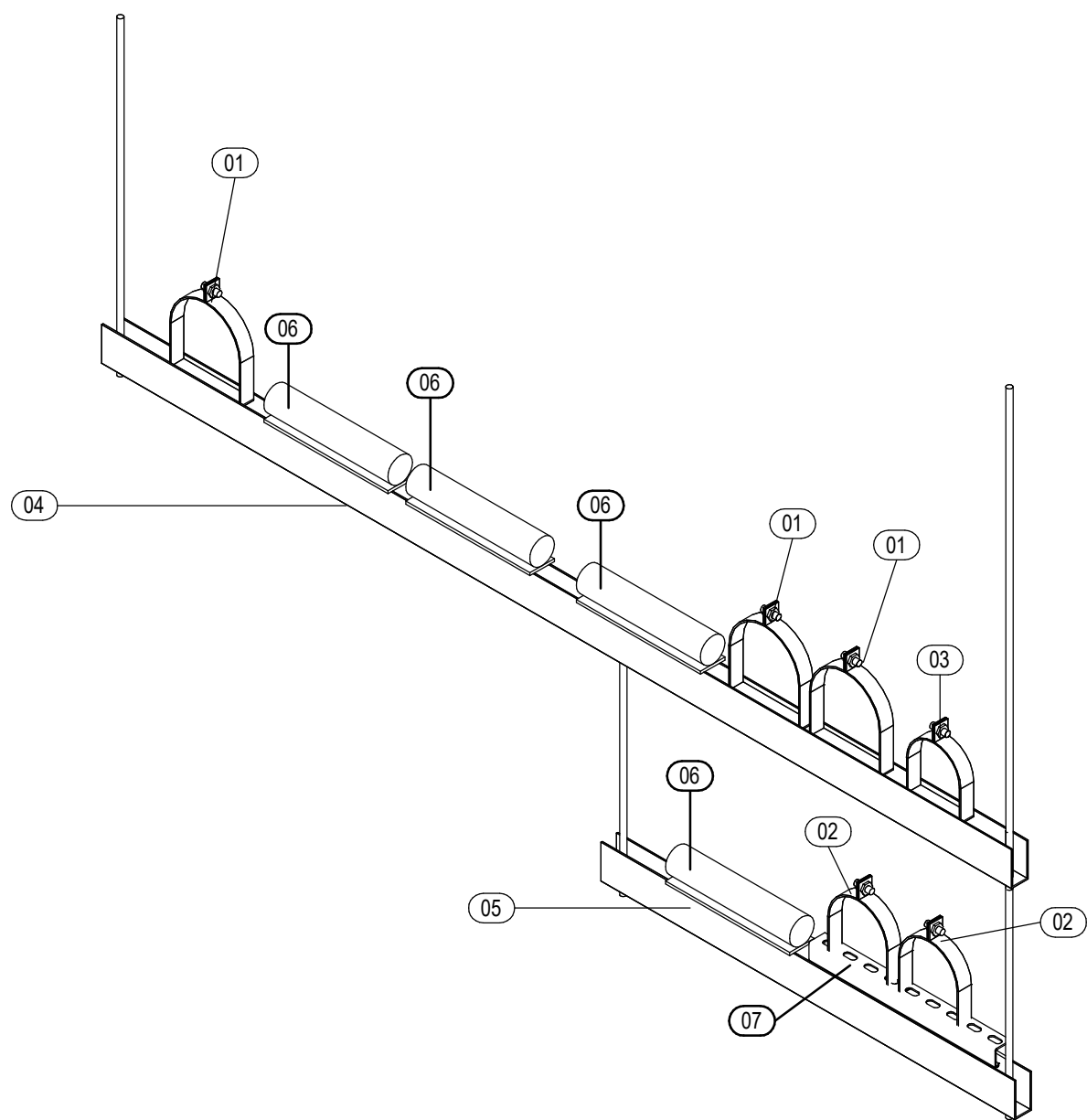
DATE: 06/17/21

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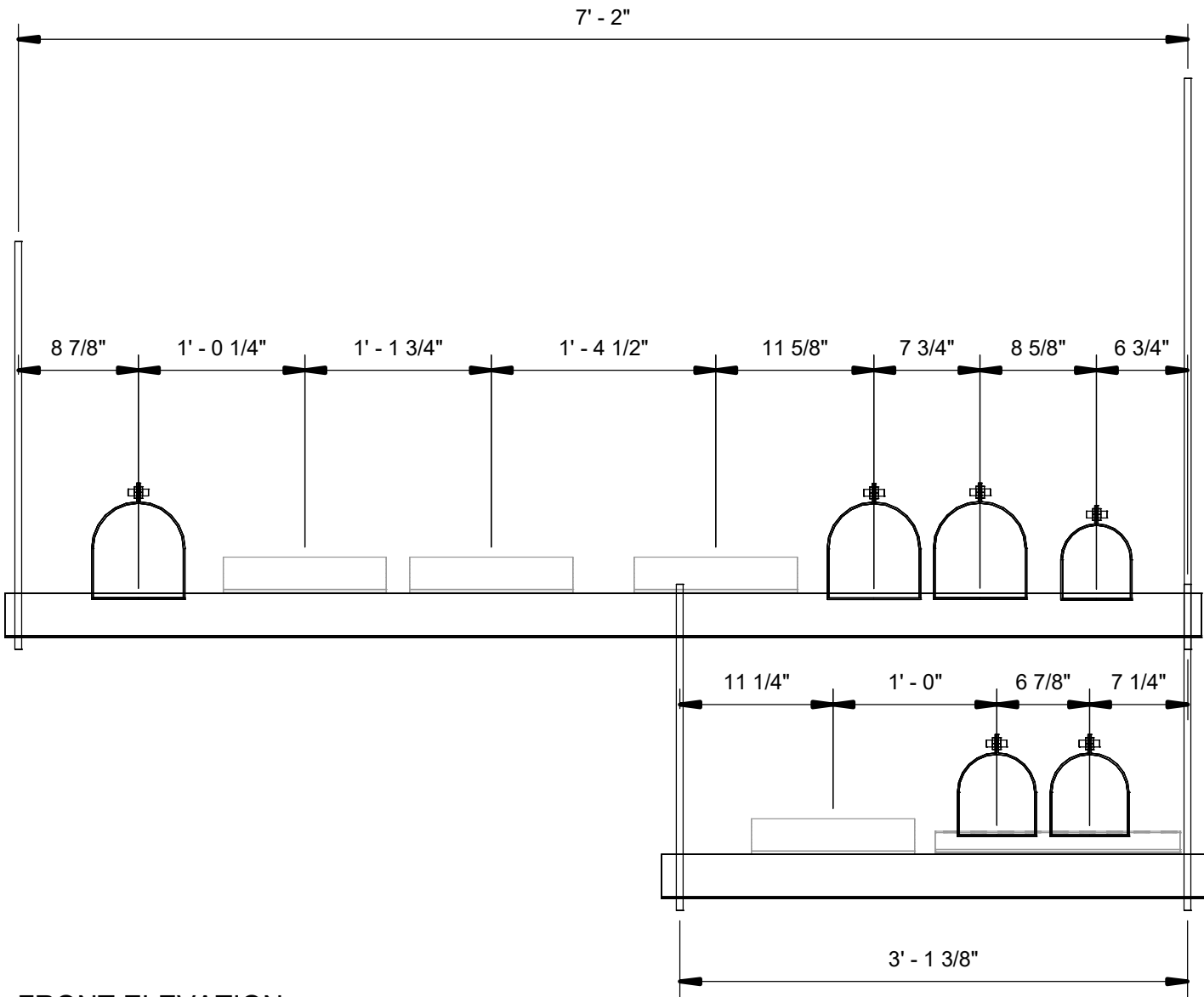
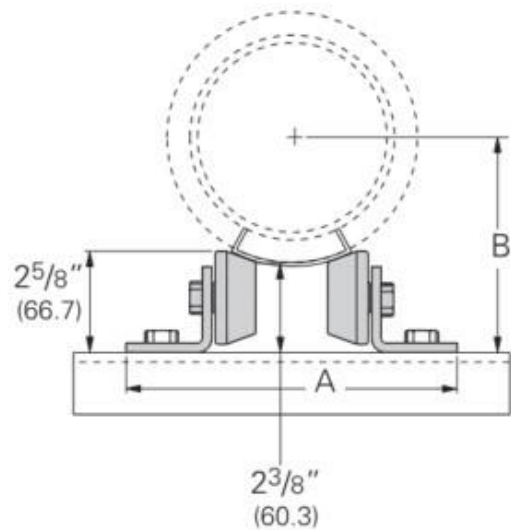


ISOMETRIC

Mark	Qty	Size	Description	Rod 1	Strut Width	Rod 2
01	3	6"	B-Line B2000 ZN Sch 40 Pipe Clamp			
02	2	5"	B-Line B2000 ZN Sch 40 Pipe Clamp			
03	1	4.5"	B-Line B2000 ZN Sch 40 Pipe Clamp			
04	1	84"	B-Line 1-5/8 GRN 12GA Bk/Bk 2in Slotted Unistrut	2' - 4"	7' - 4"	3' - 6"
05	1	35 3/8"	B-Line 1-5/8 GRN 12GA Bk/Bk 2in Slotted Unistrut		3'-3/8"	
06	4	N/A	B218 Roller		12"	
07	1	N/A	1-5_8x1-5_8 Slotted Strut		1'-6"	

- GENERAL NOTES**
- NOTE THAT FIG 165 ANVIL PIPE SADDLES ARE TO BE USED WITH THE B218 ROLLERS.
 - "A" DIMENSION IS SHOWN AS STRUT LENGTH ON BOM
 - NOTE THAT THE "SIZE" COLUMN IS INCORRECT FOR ALL UNISTRUT PIECES AND SHOULD BE IGNORED.
 - NOTE THAT THE "STRUT WIDTH" COLUMN IS THE END TO END DIMENSION OF THE STRUT PIECE.

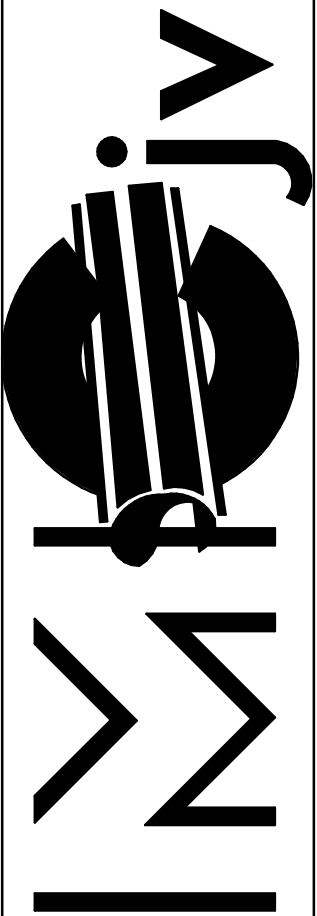
**B218
Pipe Rollers - 1/2" (15) to 8" (200) Pipe**



FRONT ELEVATION
1" = 1'-0"

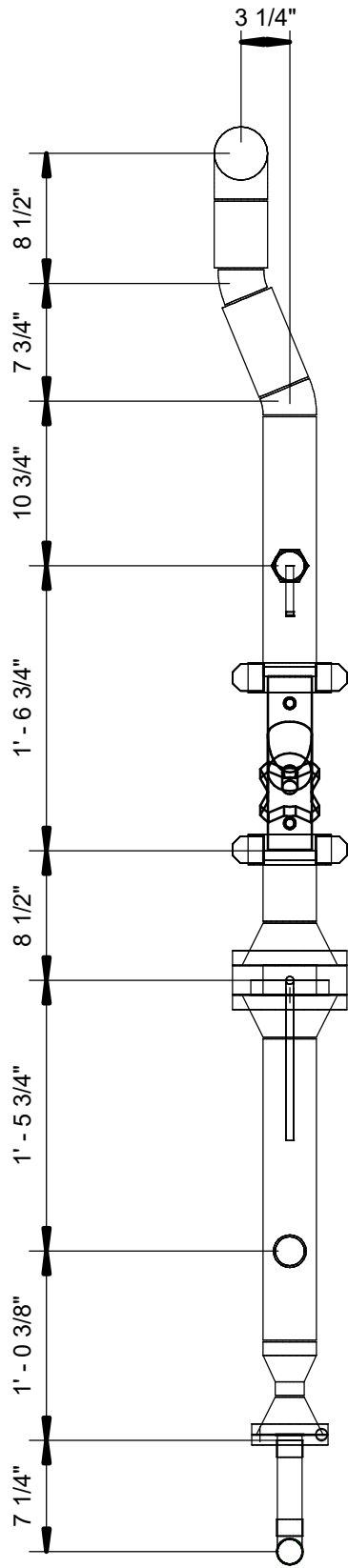
A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	HPHGR-L00-051
Drawn By: Author	
DATE: 07/20/21	DATE REQ:

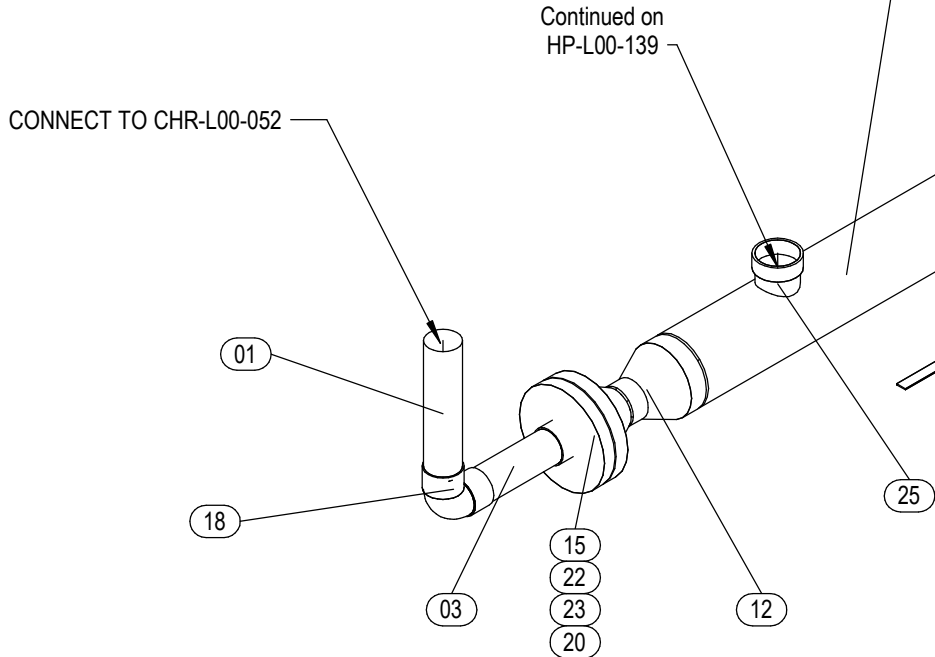


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TOP VIEW
1" = 1'-0"



Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	1 1/2"	Cerro Type L Hard Copper Pipe	0'-7 1/2"		1"
02	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	0'-6 5/16"	BVL X BVL	1"
03	1	1 1/2"	Cerro Type L Hard Copper Pipe	0'-6 1/4"		1"
04	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	0'-4 5/8"	BVL X GRV	1"
05	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	0'-4 3/8"	BVL X BVL	1"
06	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	1'-7 3/4"	BVL X BVL	1"
07	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	1'-5 1/16"	BVL X GRV	1"
08	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	10'-3 1/16"	BVL X BVL	1"
09	1	2 1/2"	VIC TA CIRCUIT BALANCING VALVE SERIES 789 (GRVD)			0"
10	1	3"	Weldbend Std Wt SA234 WPB CS BW SR 90 Deg Ell			1"
11	1	3"	Weldbend Std Wt SA234 WPB CS BW LR Trimmed Ell			1"
12	1	3"x1 1/2"	Weldbend Std Wt SA234 WPB CS BW CONC RED			1"
13	1	3"	Weldbend Std Wt SA234 WPB CS BW 45 Deg Ell			1"
14	2	3"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg			1"
15	1	1 1/2"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg			1"
16	2	3"	Victaulic Style 107 EHP Pnt QuickVic Rigid Coupling			1"
17	1	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting			1"
18	1	1 1/2"	Nibco Wrot 607 90 Deg Ell CxC			1"
19	1	3"	Nibco LD-2000 Butterfly Valve			1"
20	1	1 1/2"	Nibco 150lb 672 2pc LF Compainion Flange			1"
21	1	3"	Generic 150lb CS Flange Cap Screw Set			
22	1	1 1/2"	Generic 150# RF Garlock Gasket 1/16 Thick			1"
23	1	1 1/2"	Generic 150# CS Flange Bolt Set			
24	1	1 1/2"	Apollo 77C-140 Brz 2pc FP SS-Vntd-B&S Ball Valve Thd			1"
25	2	3"x1 1/2"	Anvil 3000# FS Thread-O-Let			1"

A1	A3	B1	B3
A2	A4	B2	B4

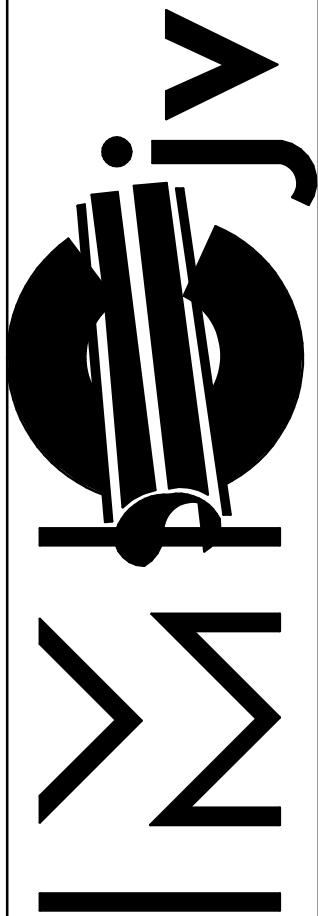
JOB: WASH U NRB

TICKET: CHR-L00-051

Drawn By: Author

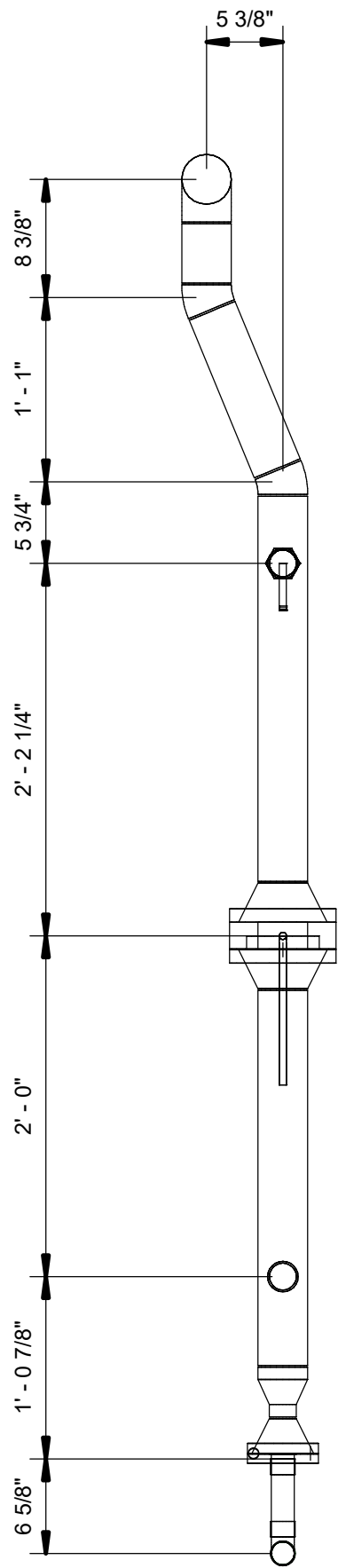
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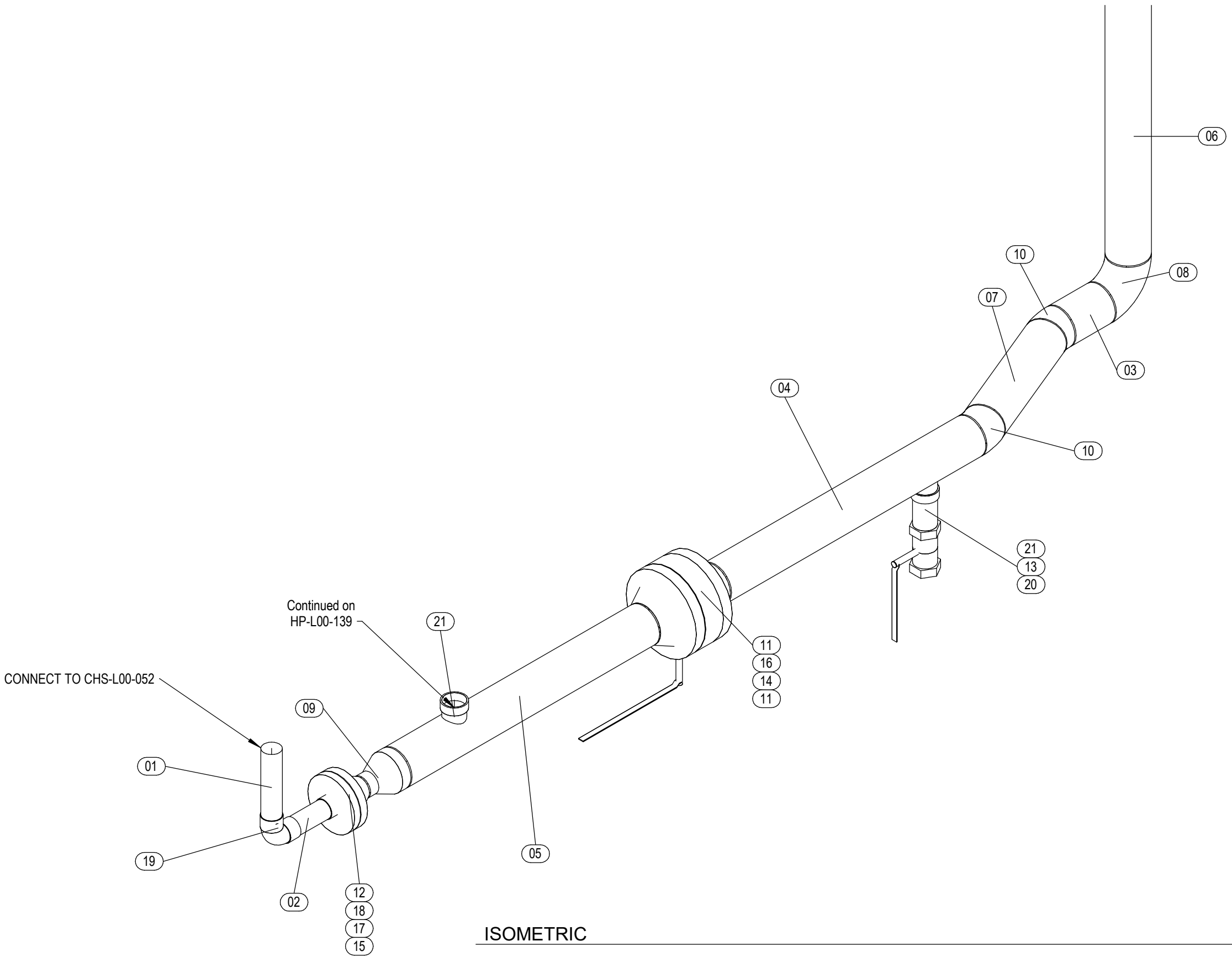
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TOP VIEW
1" = 1'-0"

Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	1 1/2"	Cerro Type L Hard Copper Pipe	0'-7 1/4"		1"
02	1	1 1/2"	Cerro Type L Hard Copper Pipe	0'-5 1/2"		1"
03	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	0'-4 3/16"	BVL X BVL	1"
04	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	2'-3 1/8"	BVL X BVL	1"
05	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	2'-2 7/16"	BVL X BVL	1"
06	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	10'-3 1/16"	BVL X BVL	1"
07	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	1'-0"	BVL X BVL	1"
08	1	3"	Weldbend Std Wt SA234 WPB CS BW SR 90 Deg Ell			1"
09	1	3"x1 1/2"	Weldbend Std Wt SA234 WPB CS BW CONC RED			1"
10	2	3"	Weldbend Std Wt SA234 WPB CS BW 45 Deg Ell			1"
11	2	3"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg			1"
12	1	1 1/2"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg			1"
13	1	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting			1"
14	1	3"	Nibco LD-2000 Butterfly Valve			1"
15	1	1 1/2"	Nibco 150lb 672 2pc LF Compainion Flange			1"
16	1	3"	Generic 150lb CS Flange Cap Screw Set			
17	1	1 1/2"	Generic 150# RF Garlock Gasket 1/16 Thick			1"
18	1	1 1/2"	Generic 150# CS Flange Bolt Set			
19	1	1 1/2"	Elkhart 107-C Wrot 90 Elbow - Close Ruff			1"
20	1	1 1/2"	Apollo 77C-140 Brz 2pc FP SS-Vntd-B&S Ball Valve Thd			1"
21	2	3"x1 1/2"	Anvil 3000# FS Thread-O-Let			1"



A1	A3	B1	B3
A2	A4	B2	B4

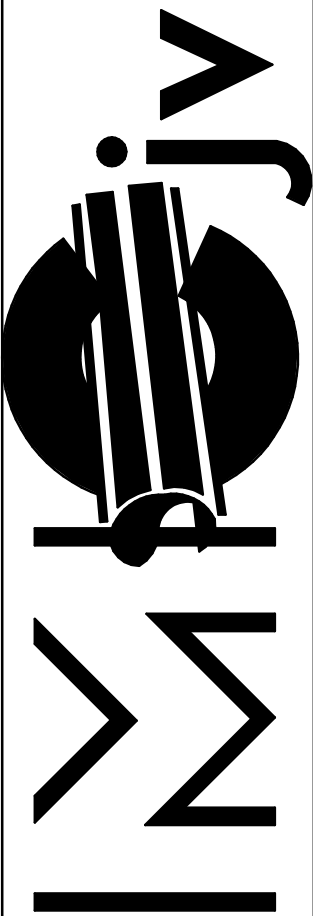
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TICKET: CHS-L00-051

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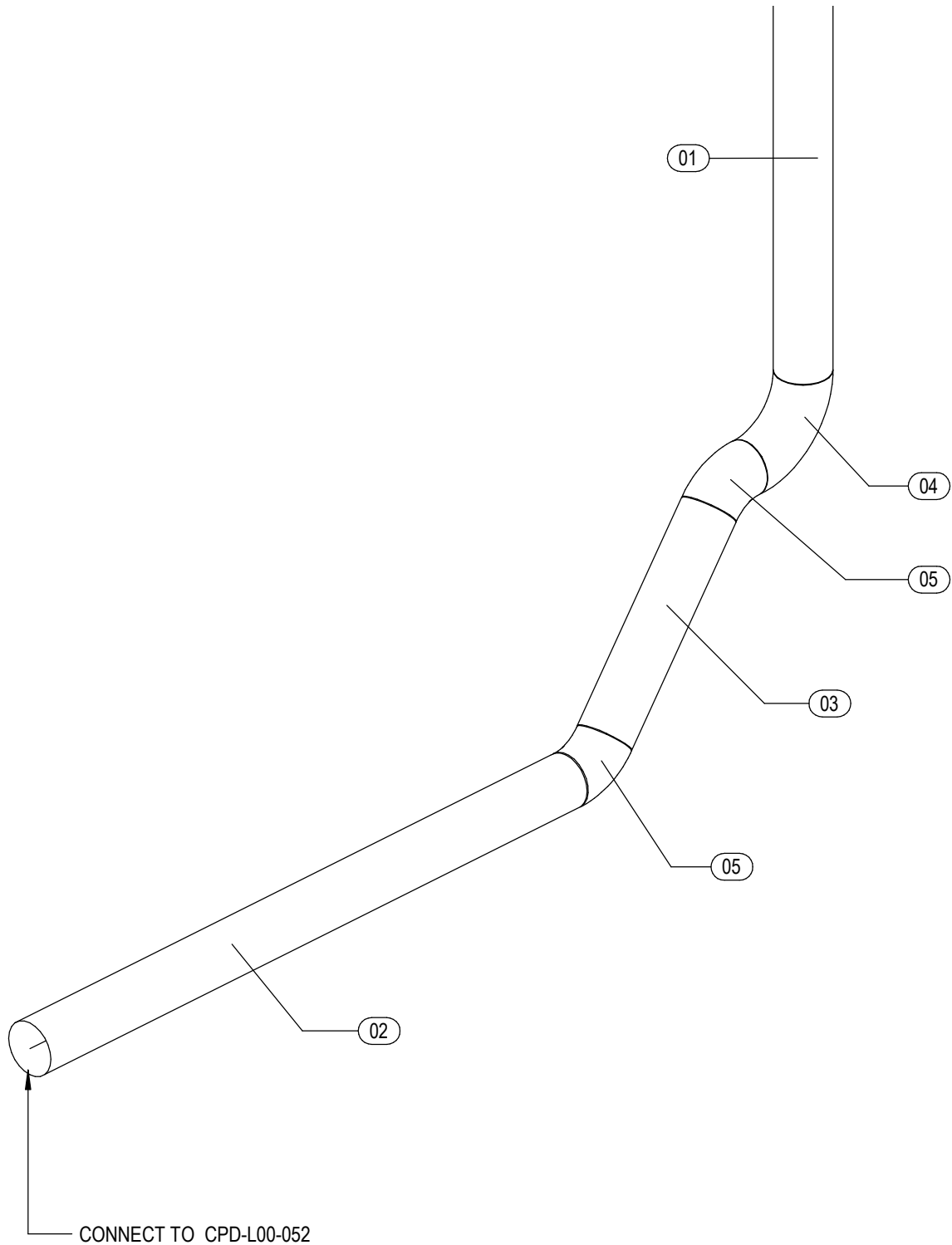
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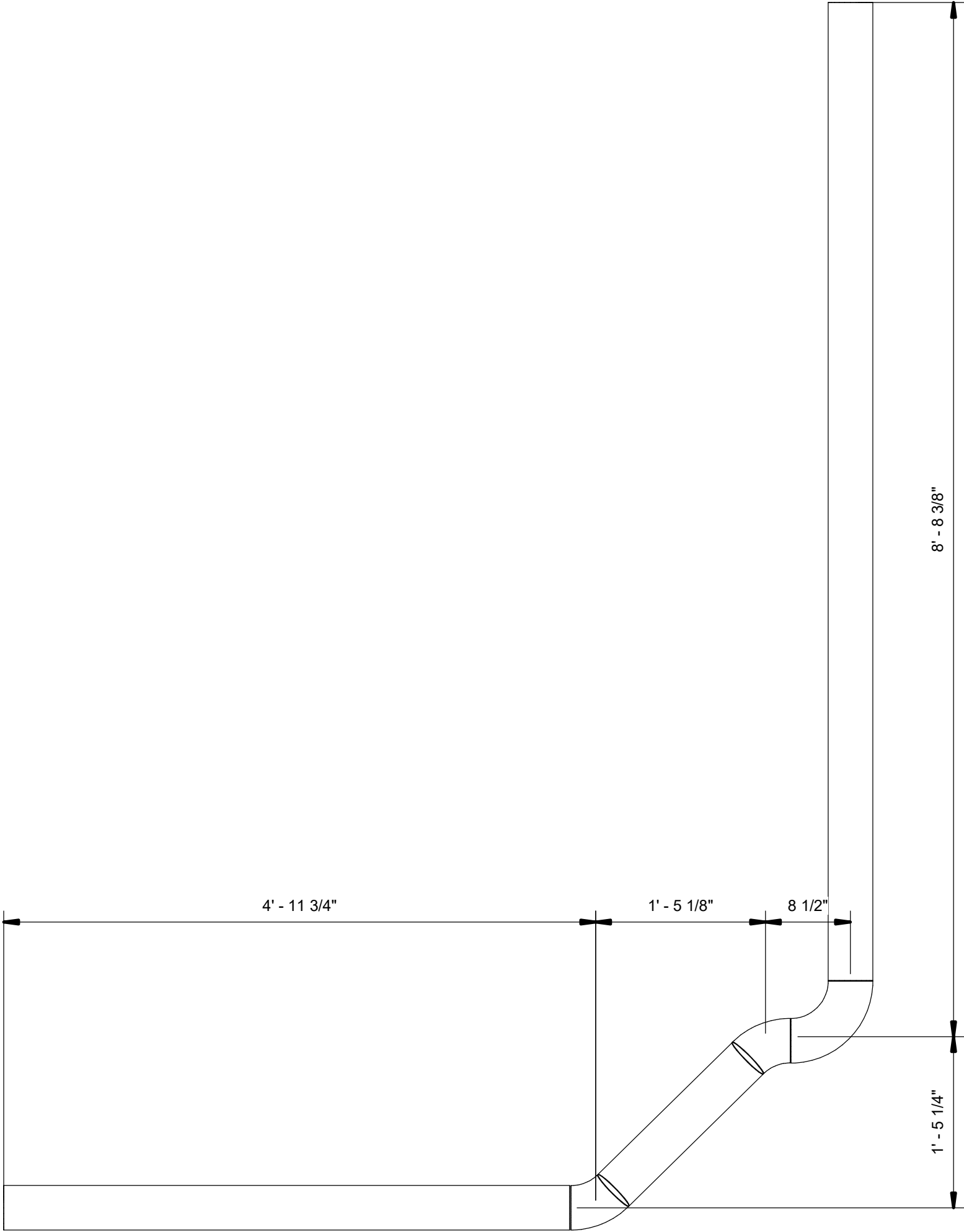
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Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	8'-2 11/16"	BVL X BVL	4 1/2"
02	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	4'-9 1/16"	BVL X BVL	4 1/2"
03	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	1'-7 1/8"	BVL X BVL	4 1/2"
04	1	4"	Weldbend XH SA234 WPB CS BW LR 90 Deg Ell			4 1/2"
05	2	4"	Weldbend XH SA234 WPB CS BW 45 Deg Ell			4 1/2"

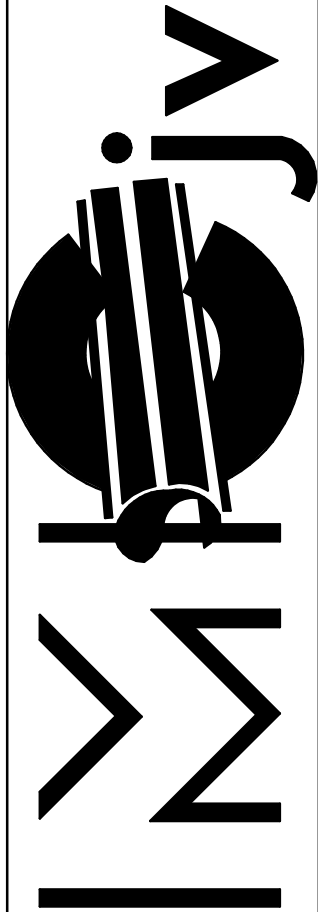
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 1" = 1'-0"

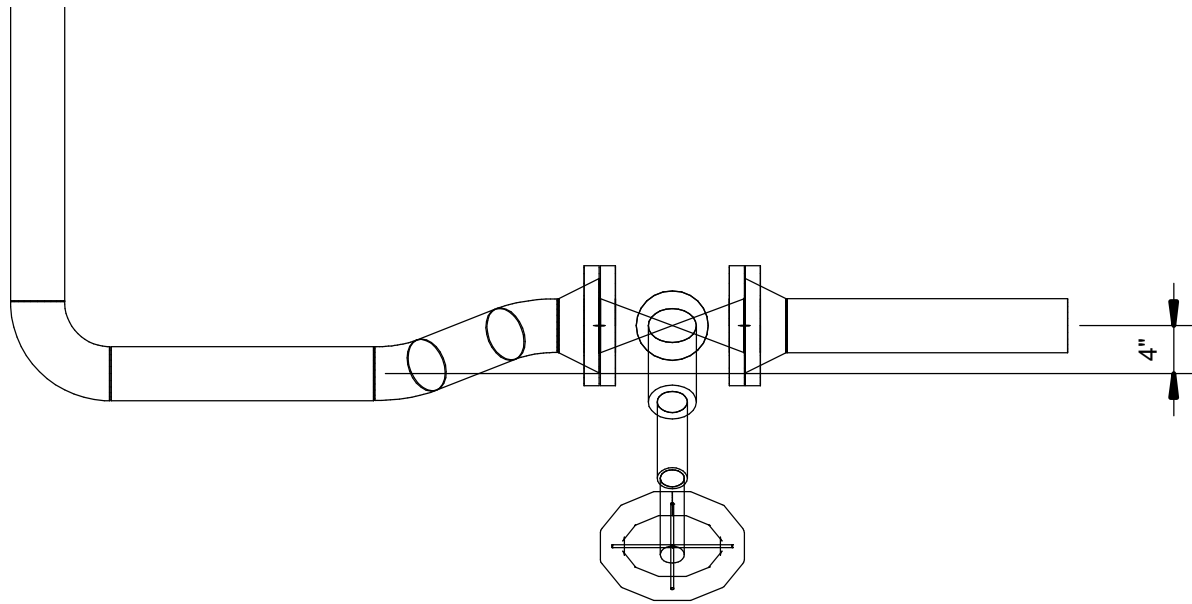
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A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	CPD-L00-051
Drawn By: Author	
DATE: 06/11/21	DATE REQ:

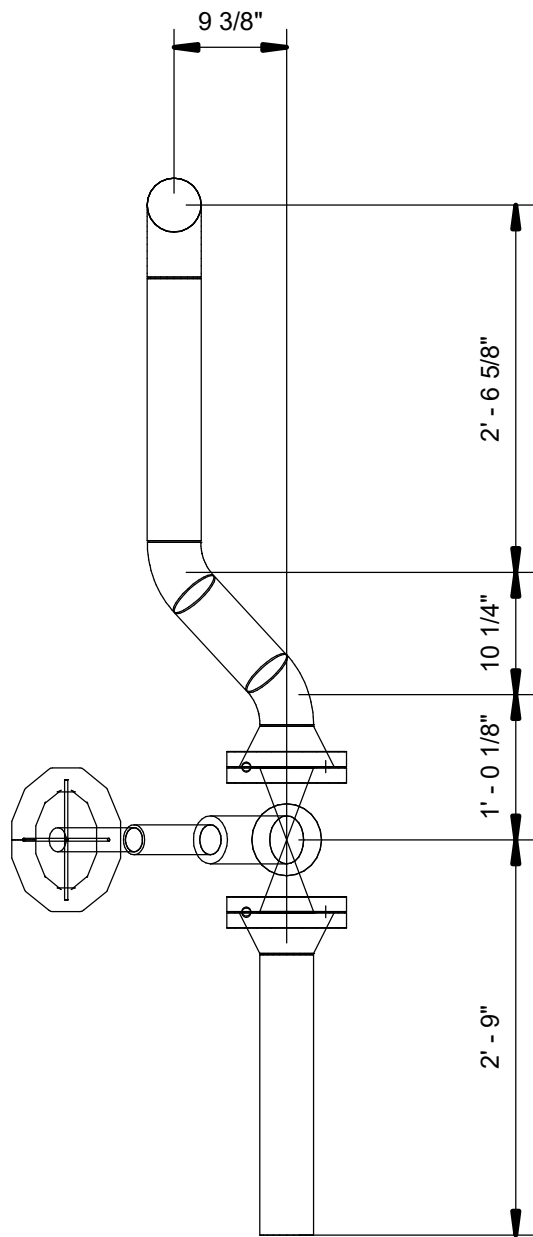


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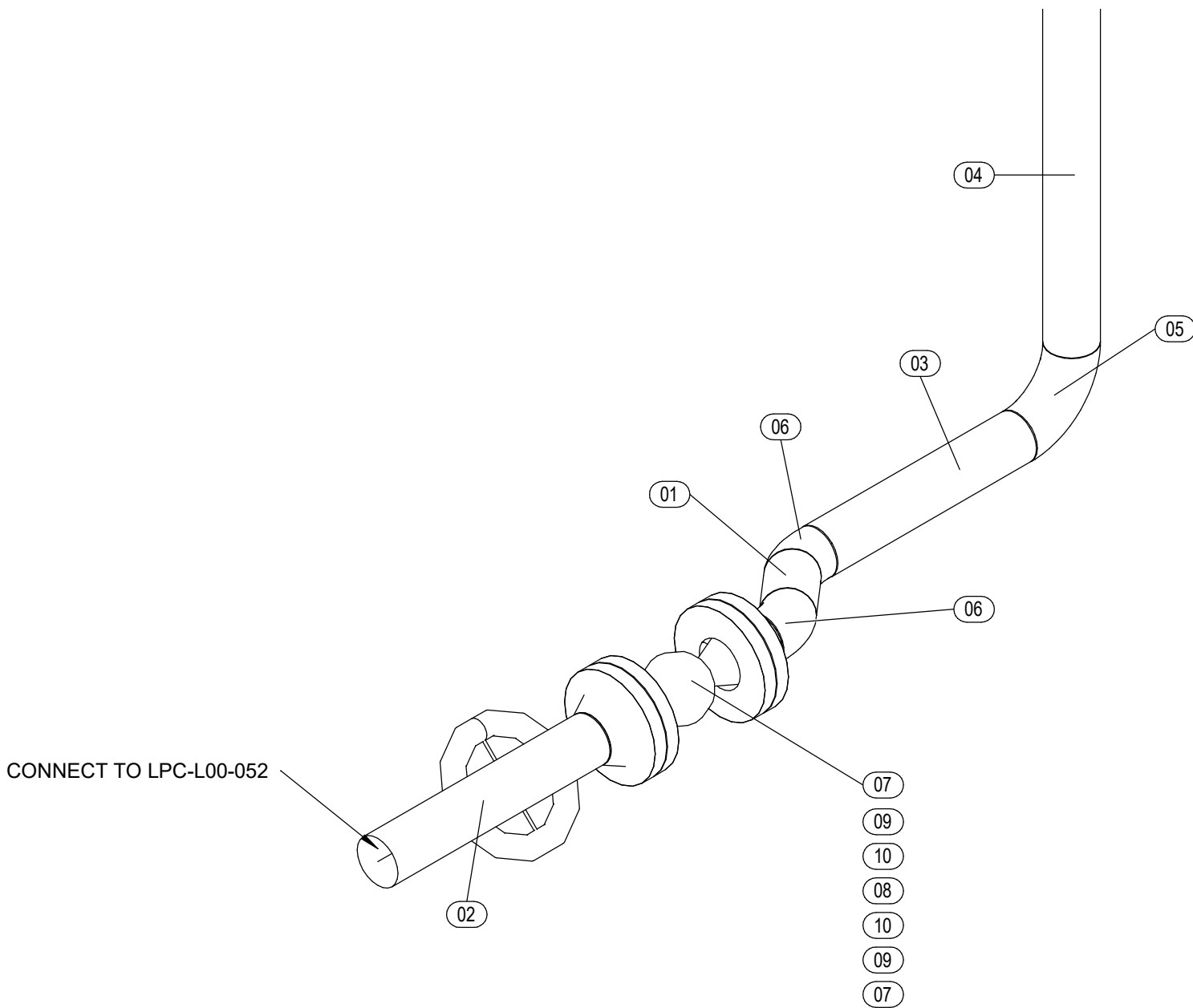


LEFT ELEVATION
3/4" = 1'-0"



TOP VIEW
3/4" = 1'-0"

Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	0'-9 3/16"	BVL X BVL	4 1/2"
02	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	1'-11 3/8"	BVL X BVL	4 1/2"
03	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	1'-9 7/8"	BVL X BVL	4 1/2"
04	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	8'-4 5/16"	BVL X BVL	4 1/2"
05	1	4"	Weldbend XH SA234 WPB CS BW LR 90 Deg Ell			4 1/2"
06	2	4"	Weldbend XH SA234 WPB CS BW 45 Deg Ell			4 1/2"
07	2	4"	Weldbend 300lb RF XH Bore SA105 CS WN FLG			4 1/2"
08	1	4"	Nibco F-617-O Gate Valve			4 1/2"
09	2	4"	Generic 300# RF Gasket 304SS FG CS Style CG 3/32			4 1/2"
10	2	4"	300 # Bolt Set			4 1/2"



ISOMETRIC

A1	A3	B1	B3
A2	A4	B2	B4

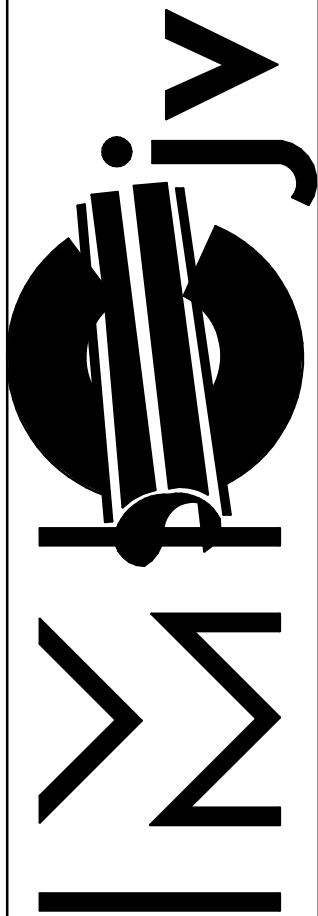
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TICKET: LPC-L00-051

Drawn By: Author

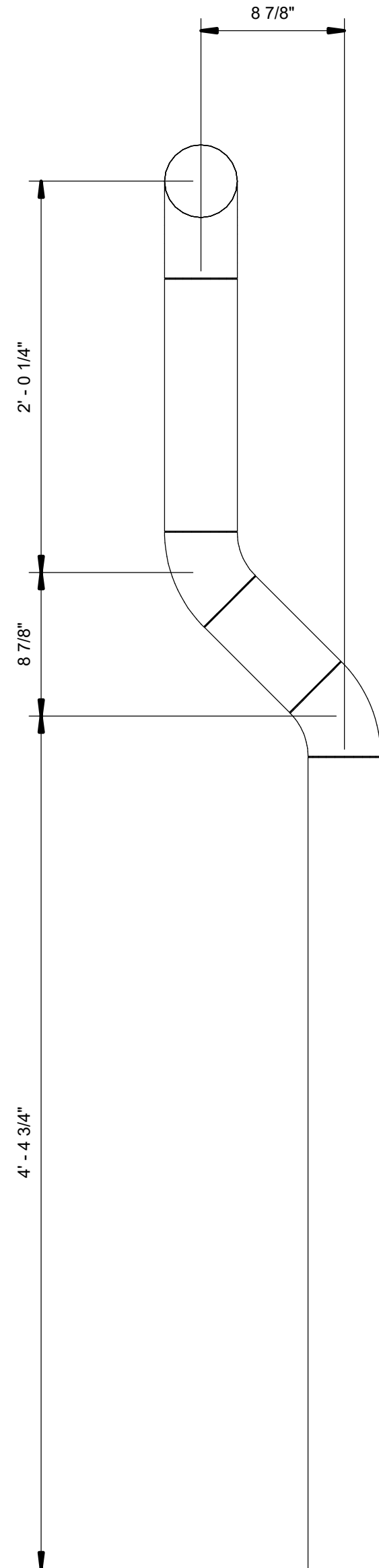
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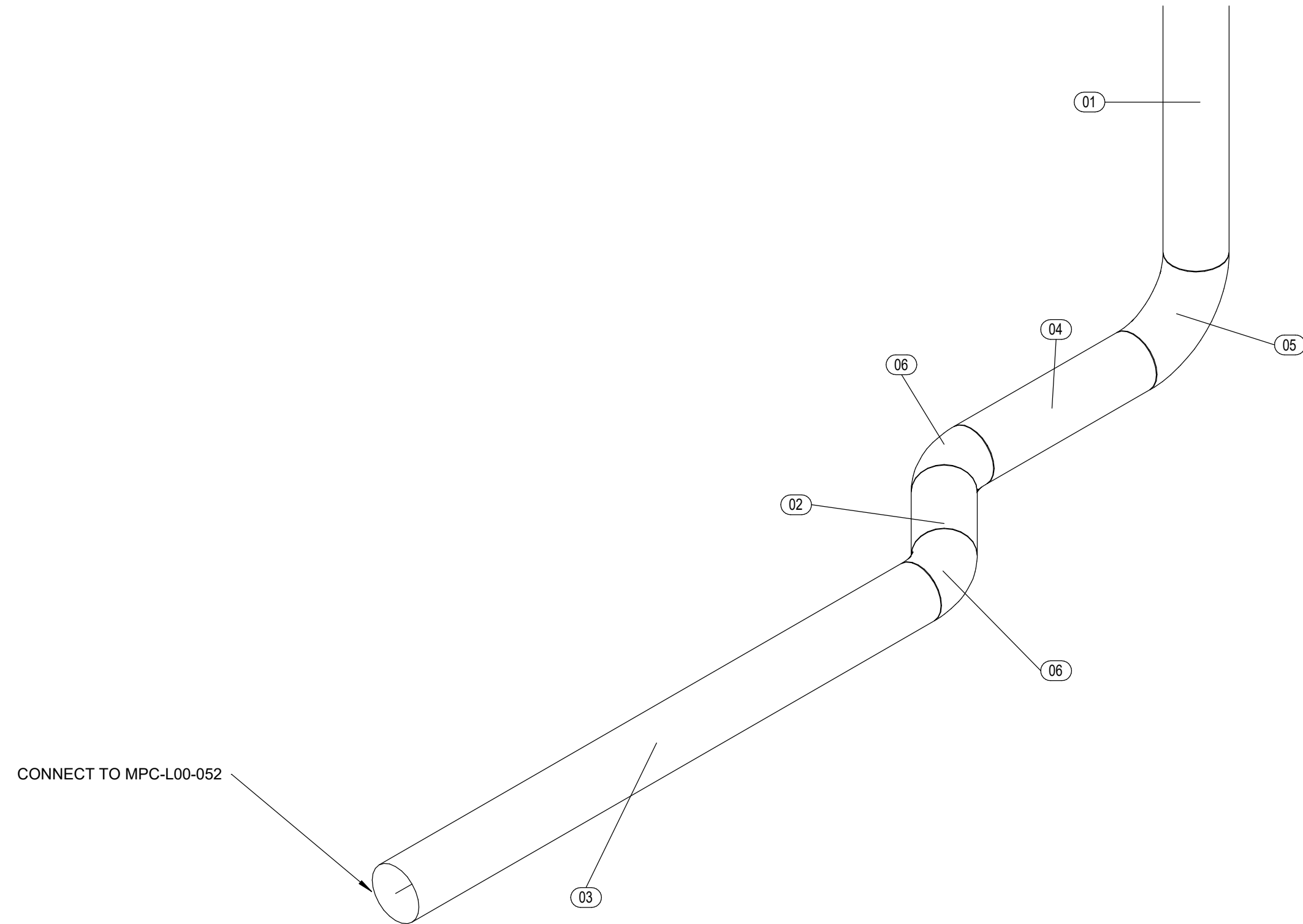


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Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	8'-0 5/16"	BVL X BVL	4 1/2"
02	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	0'-7 7/16"	BVL X BVL	4 1/2"
03	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	4'-2 3/16"	BVL X BVL	4 1/2"
04	1	4"	Chicago Area XH SA-53B CS SMLS Pipe	1'-3 5/8"	BVL X BVL	4 1/2"
05	1	4"	Weldbend XH SA234 WPB CS BW LR 90 Deg Ell			4 1/2"
06	2	4"	Weldbend XH SA234 WPB CS BW 45 Deg Ell			4 1/2"



TOP VIEW
1 1/2" = 1'-0"

ISOMETRIC

A1	A3	B1	B3
A2	A4	B2	B4

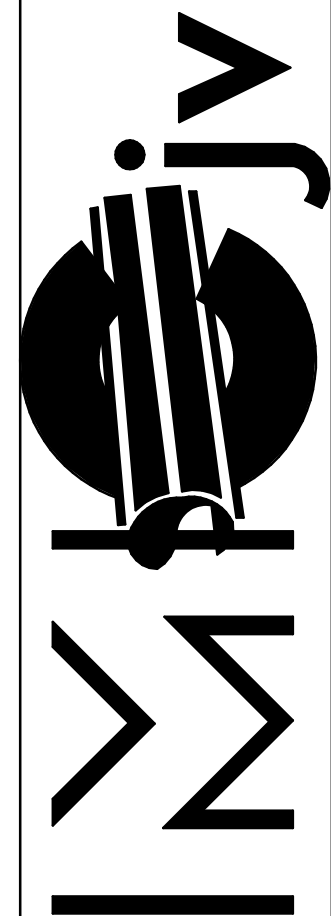
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TICKET: MPC-L00-051

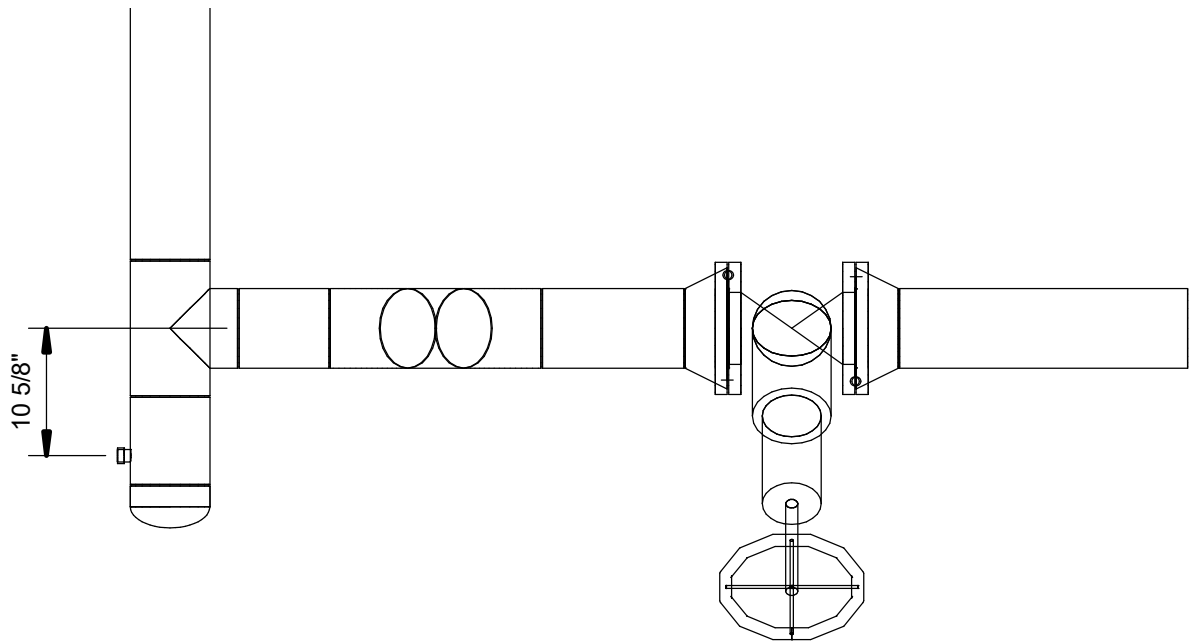
Drawn By: Author

DATE: 07/20/21	DATE REQ:
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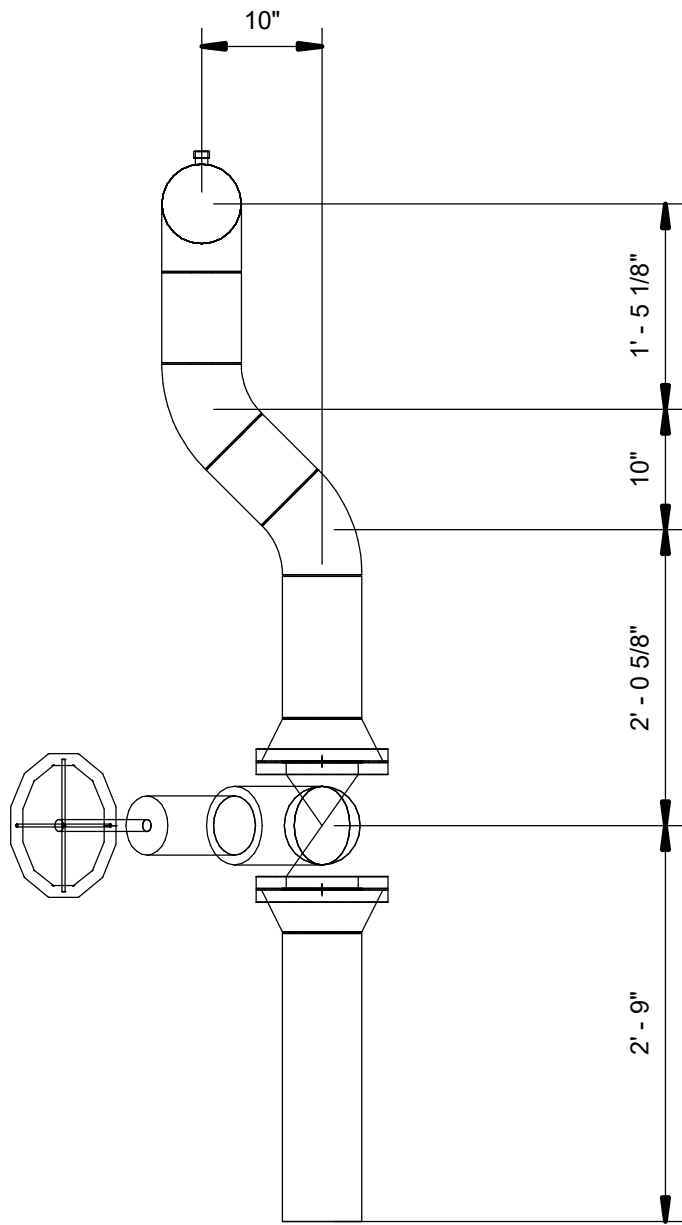


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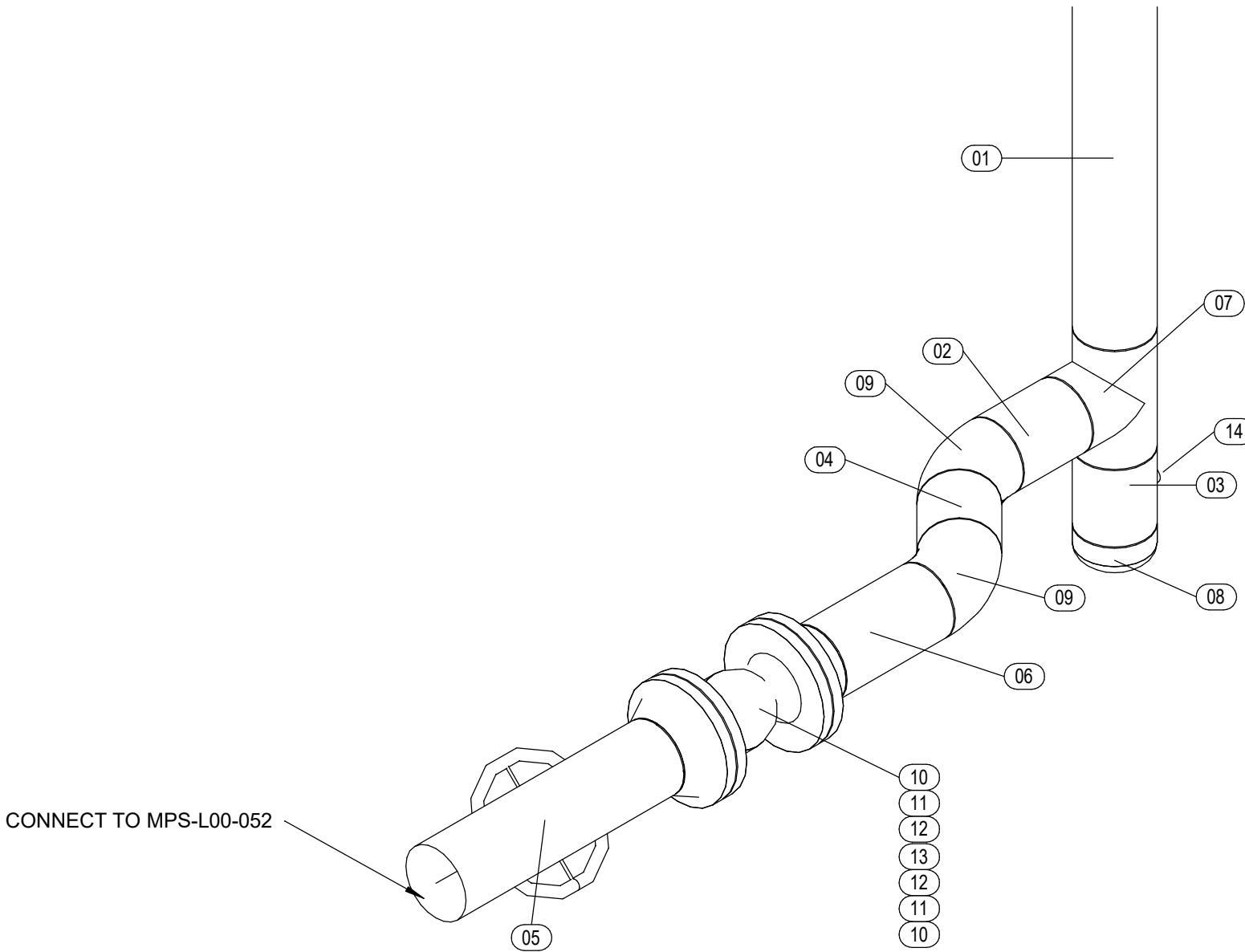


LEFT ELEVATION
3/4" = 1'-0"



TOP VIEW
3/4" = 1'-0"

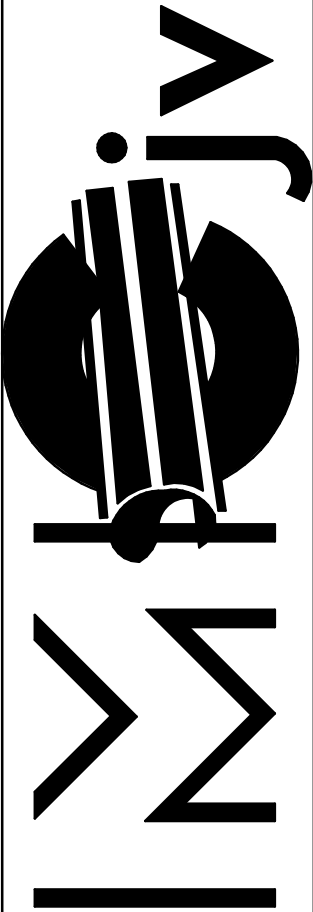
Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	6"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	7'-11 1/2"	BVL X BVL	4 1/2"
02	1	6"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-7 1/2"	BVL X BVL	4 1/2"
03	1	6"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-7 1/4"	BVL X BVL	4 1/2"
04	1	6"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-6 7/16"	BVL X BVL	4 1/2"
05	1	6"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	2'-0"	BVL X BVL	4 1/2"
06	1	6"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-11 3/4"	BVL X BVL	4 1/2"
07	1	6"	Weldbend Std Wt SA234 WPB CS BW TEE			4 1/2"
08	1	6"	Weldbend Std Wt SA234 WPB CS BW Cap			4 1/2"
09	2	6"	Weldbend Std Wt SA234 WPB CS BW 45 Deg Ell			4 1/2"
10	2	6"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg			4 1/2"
11	2	6"	Generic 150# CS Flange Bolt Set			
12	2	6"	Generic 150# 304 Spiral Wound StyleCG 1-8			4 1/2"
13	1	6"	Nibco F-617-O Gate Valve			4 1/2"
14	1	6"x3/4"	Anvil 3000# FS Thread-O-Let			



ISOMETRIC

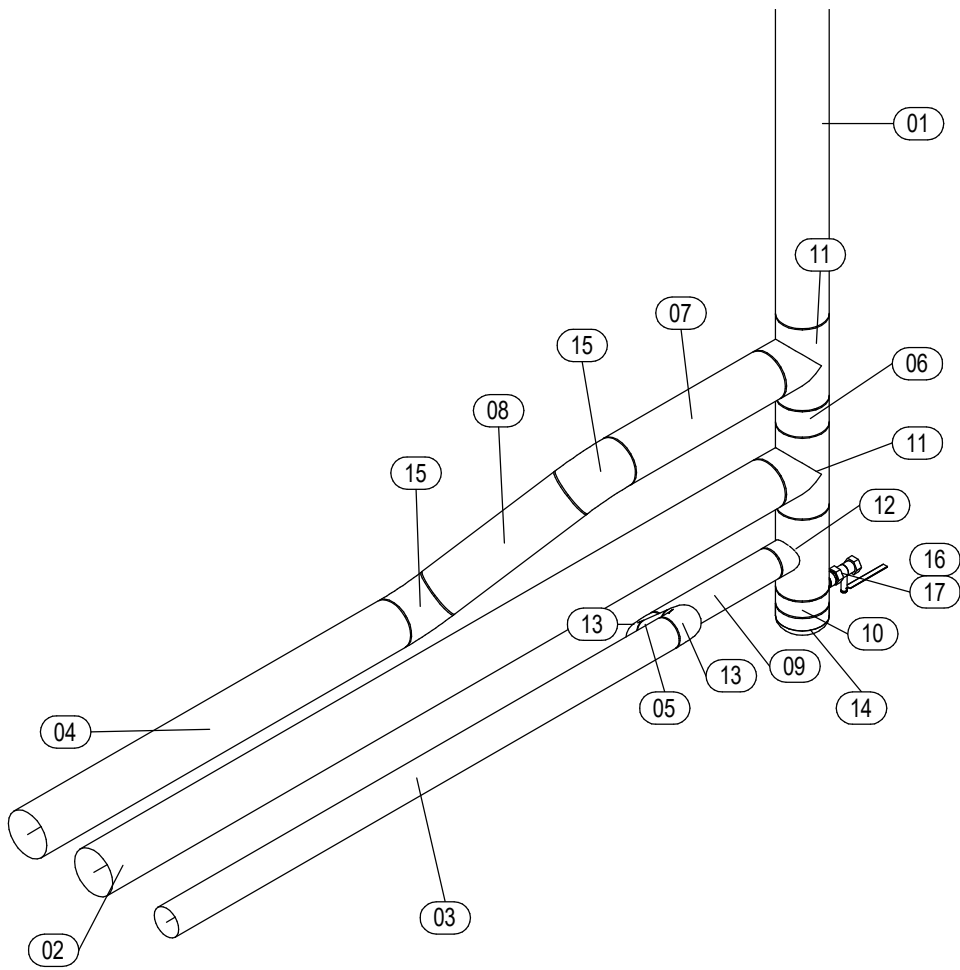
A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB	TICKET: MPS-L00-051	Drawn By: Author	DATE REQ: 07/22/21

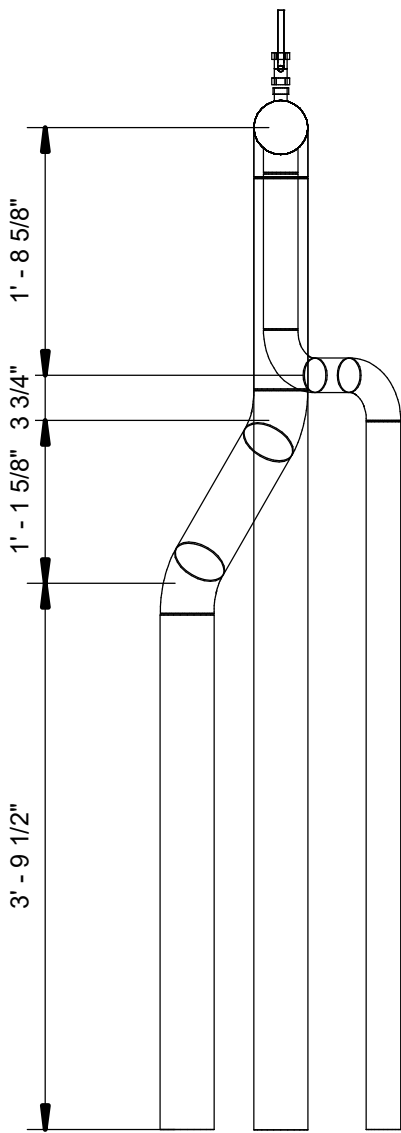


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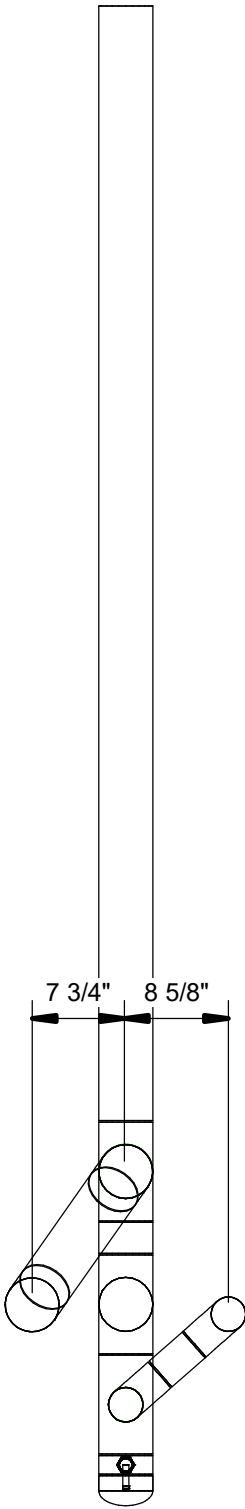
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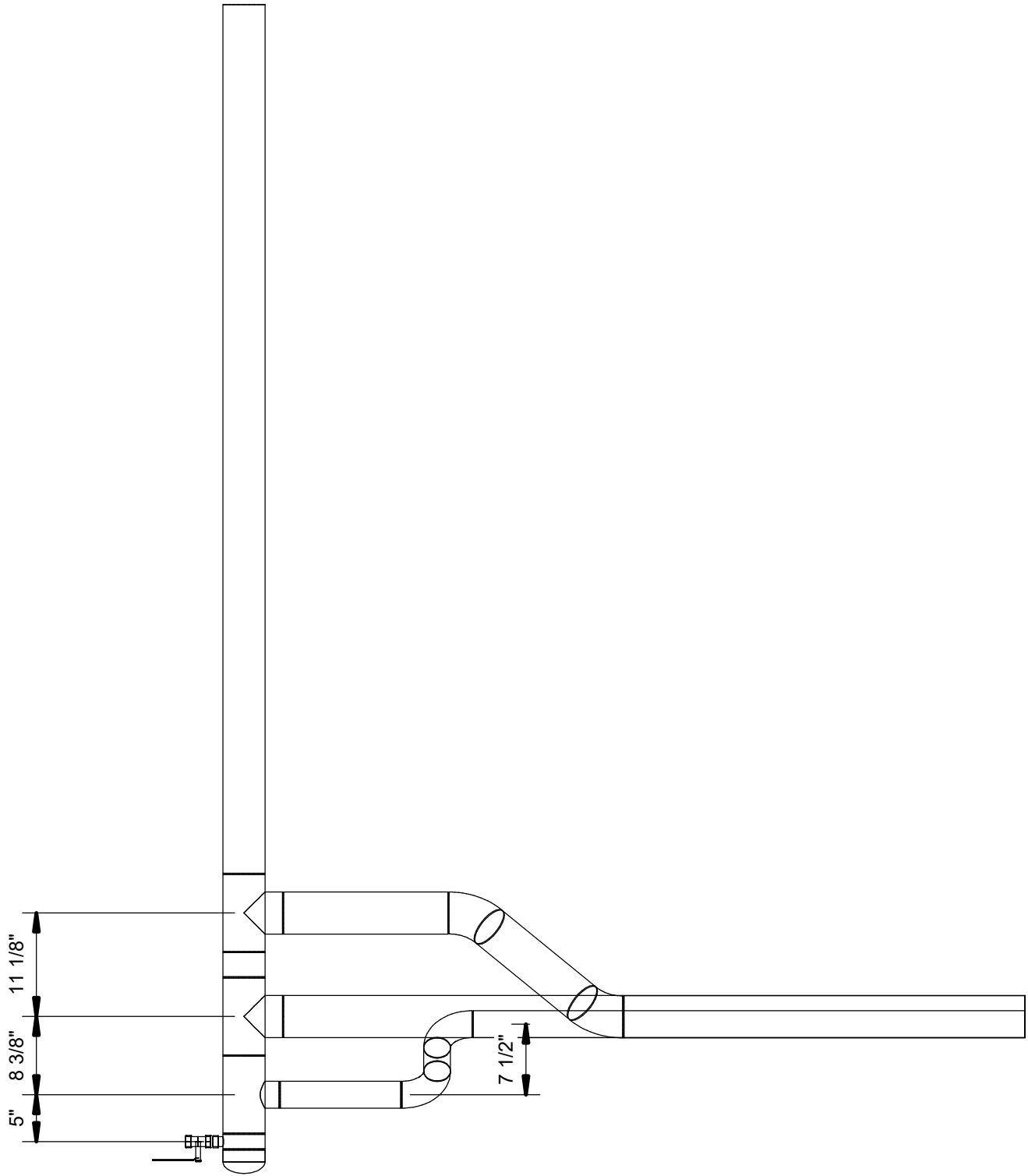
ISOMETRIC



TOP VIEW
3/4" = 1'-0"



FRONT ELEVATION
3/4" = 1'-0"



LEFT ELEVATION
3/4" = 1'-0"

Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	7'-8 15/16"	BVL X BVL	
02	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	6'-7 5/16"	BVL X BVL	1"
03	1	2 1/2"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	4'-11"	BVL X BVL	1"
04	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	3'-6 7/8"	BVL X BVL	1"
05	1	2 1/2"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-3 11/16"	BVL X BVL	1"
06	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-2 9/16"	BVL X BVL	1"
07	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	1'-5 9/16"	BVL X BVL	1"
08	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	1'-1 15/16"	BVL X BVL	1"
09	1	2 1/2"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	1'-0 15/16"	BVL X BVL	1"
10	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	0'-1 9/16"	BVL X BVL	
11	2	4"	Weldbend Std Wt SA234 WPB CS BW TEE			1"
12	1	4"x2 1/2"	Weldbend Std Wt SA234 WPB CS BW RED TEE			1"
13	2	2 1/2"	Weldbend Std Wt SA234 WPB CS BW LR 90 Deg Ell			1"
14	1	4"	Weldbend Std Wt SA234 WPB CS BW Cap			1"
15	2	4"	Weldbend Std Wt SA234 WPB CS BW 45 Deg Ell			1"
16	1	3/4"	Apollo 77C-140 Brz 2pc FP SS-Vntd-B&S Ball Valve Thd			1"
17	1	4"x3/4"	Anvil 3000# FS Thread-O-Let			

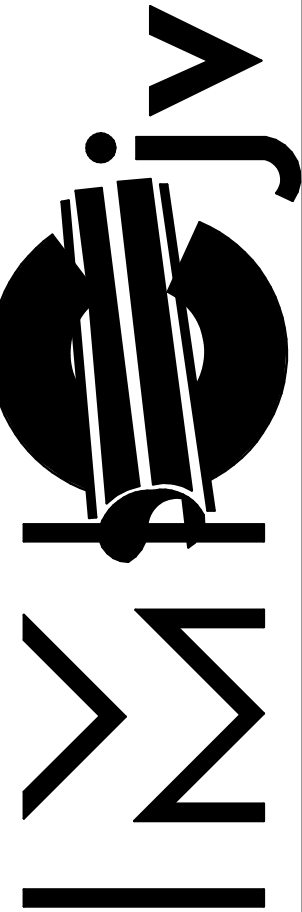
JOB: WASH U NRB

TICKET: V-L00-051A

Drawn By: Author

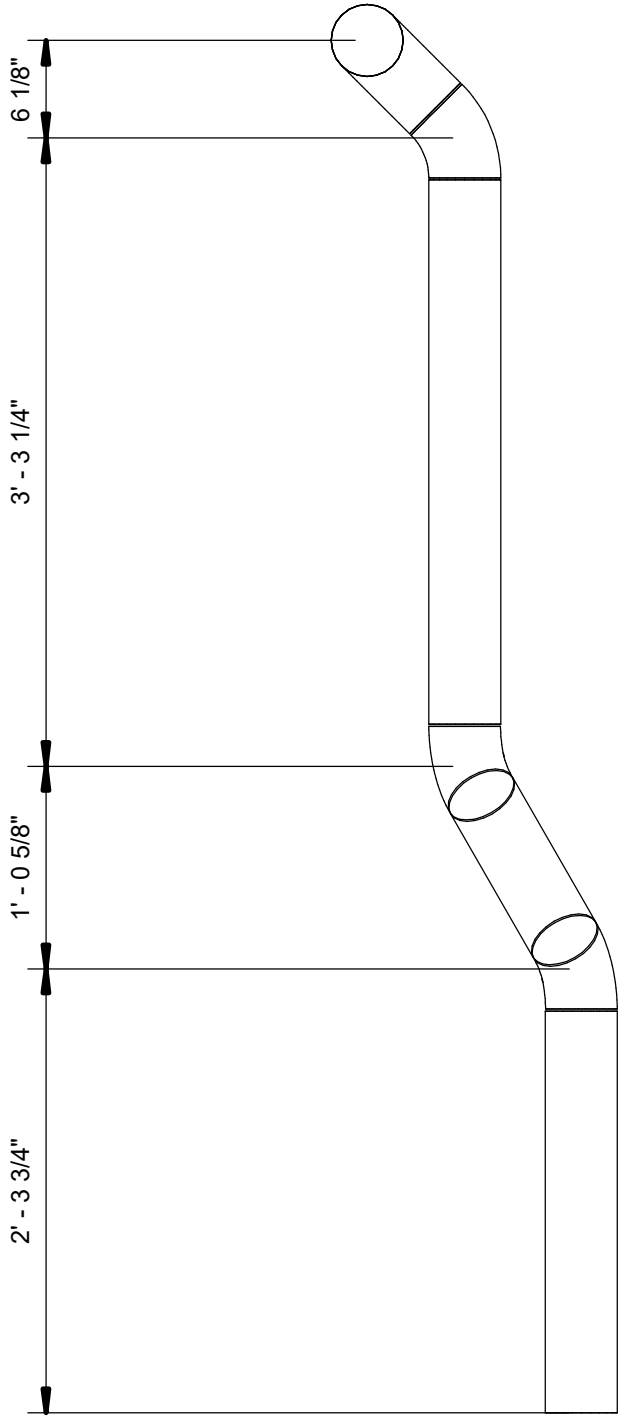
DATE REQ: 07/21/21

A1	A3	B1	B3
A2	A4	B2	B4

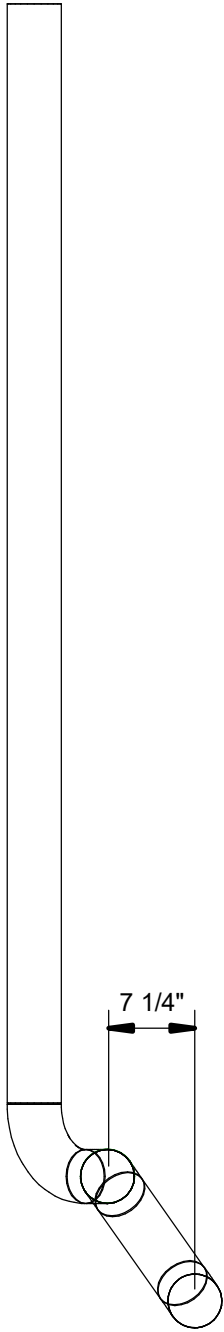


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314-997-6600 phone

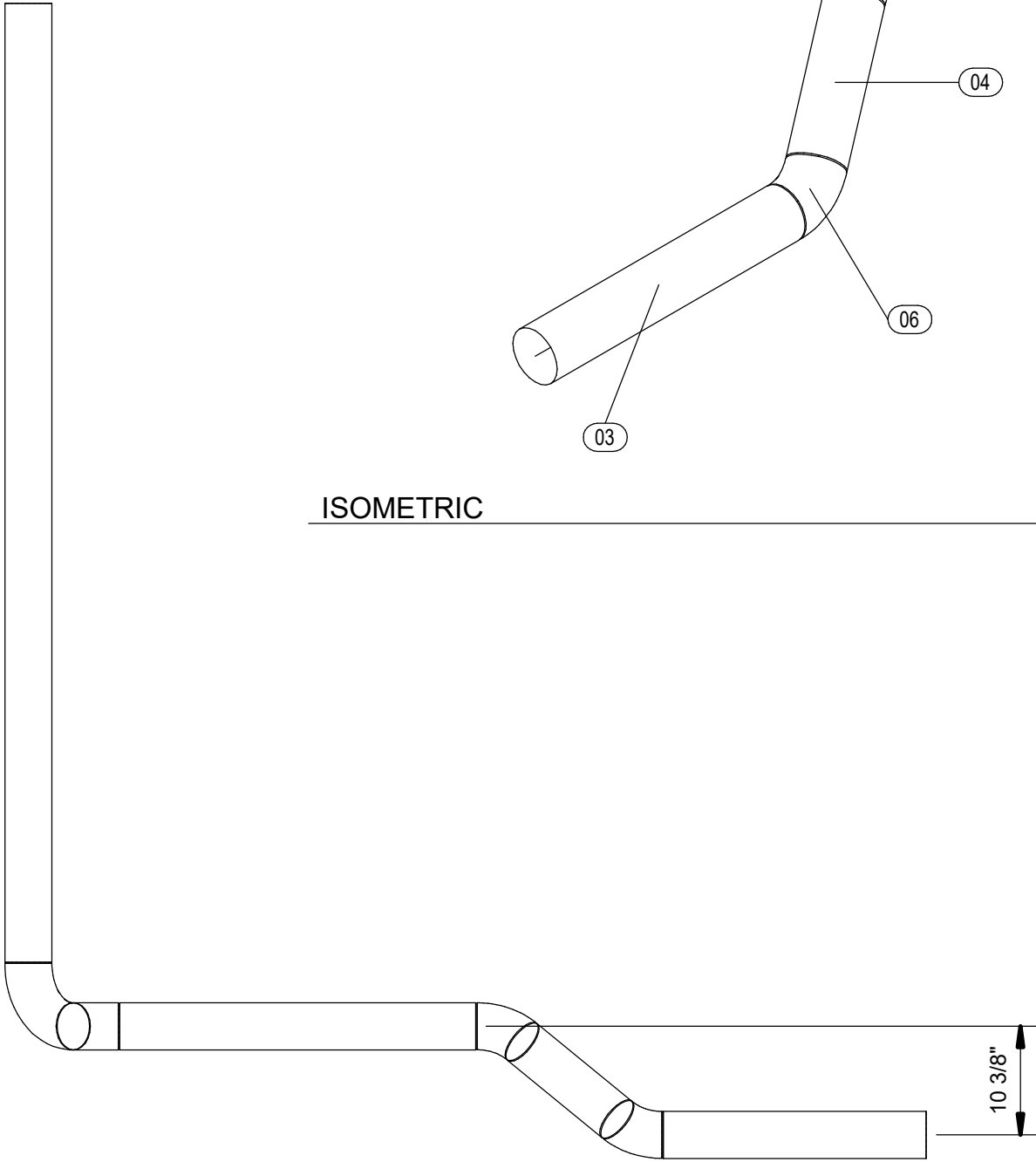
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7/28/2021 9:12:54 AM



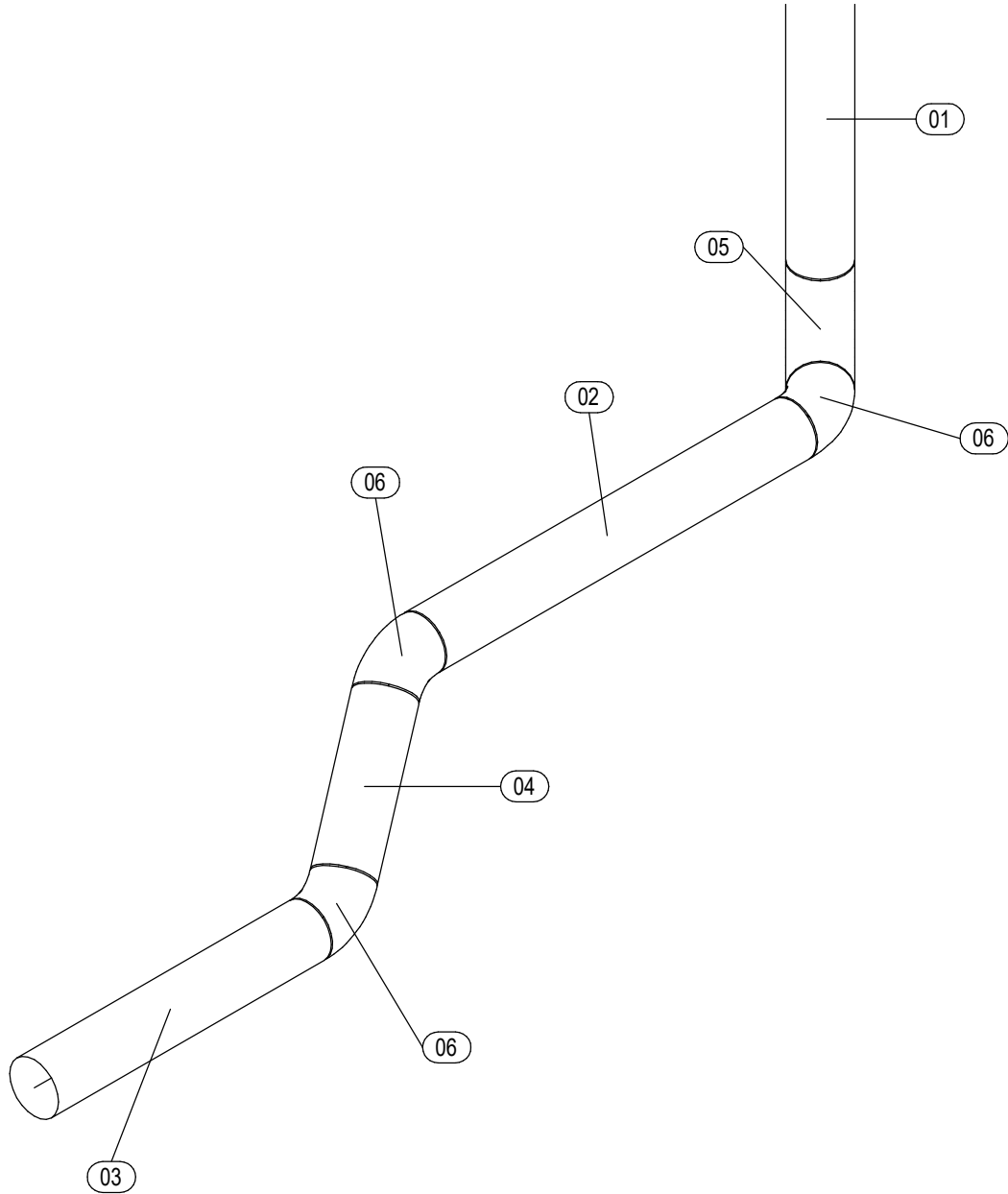
TOP VIEW
1" = 1'-0"



FRONT ELEVATION
3/4" = 1'-0"



LEFT ELEVATION
3/4" = 1'-0"



ISOMETRIC

Mark	Qty	Size	Description	Length	End Prep	Insulation
01	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	7'-7 5/8"	BVL X BVL	1"
02	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	2'-10 1/16"	BVL X BVL	1"
03	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	2'-1 1/8"	BVL X BVL	1"
04	1	4"	Chicago Area Sch 40 SA-53B CS Smls Pipe PE	1'-0 11/16"	BVL X BVL	1"
05	1	4"	Weldbend Std Wt SA234 WPB CS BW LR 90 Deg Ell			1"
06	3	4"	Weldbend Std Wt SA234 WPB CS BW 45 Deg Ell			1"

A1	A3	B1	B3
A2	A4	B2	B4

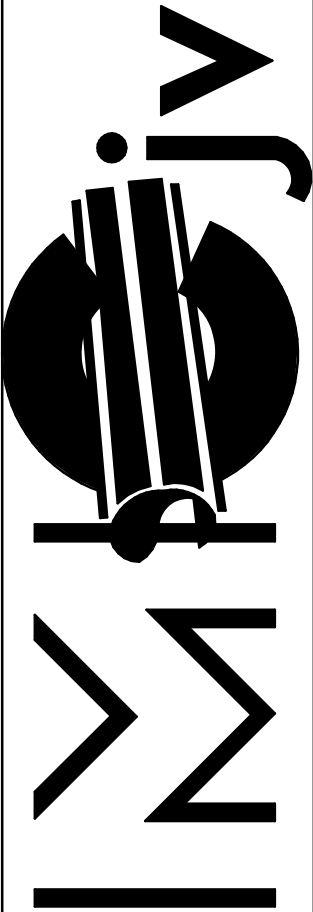
JOB: WASH U NRB

TICKET: V-L00-051B

Drawn By: Author

DATE: 07/20/21

DATE REQ:



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