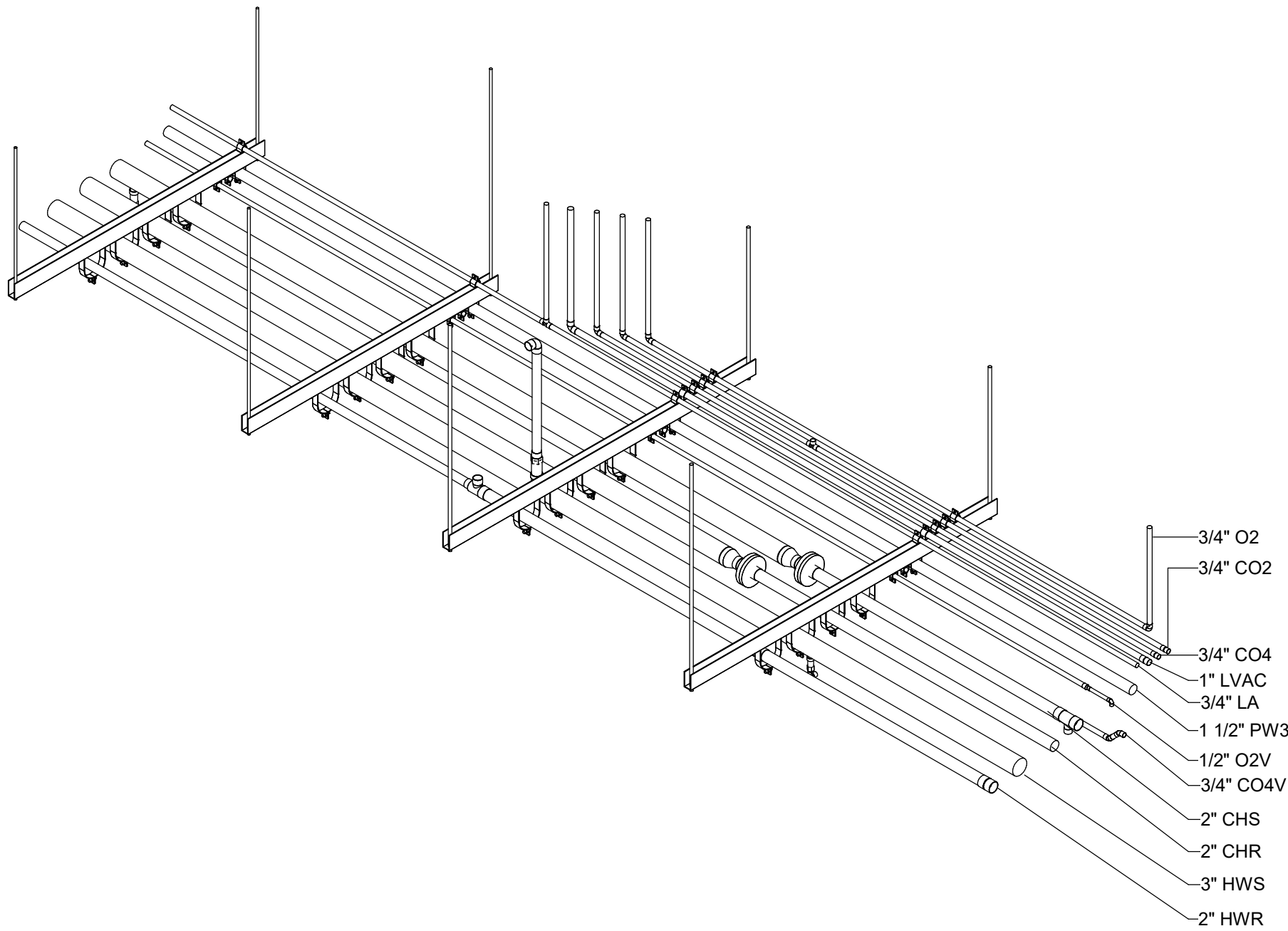
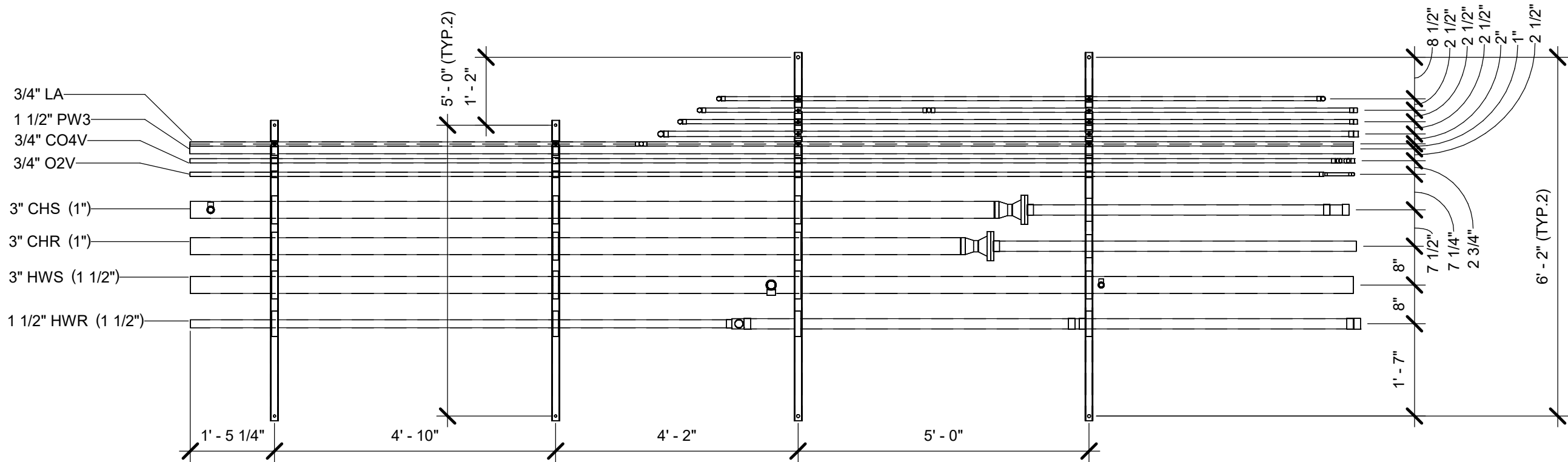


BIM 360/WUSM NRBWUSM\_RB\_SPOOLING MASTER.rvt  
12/15/2021 3:23:20 PM



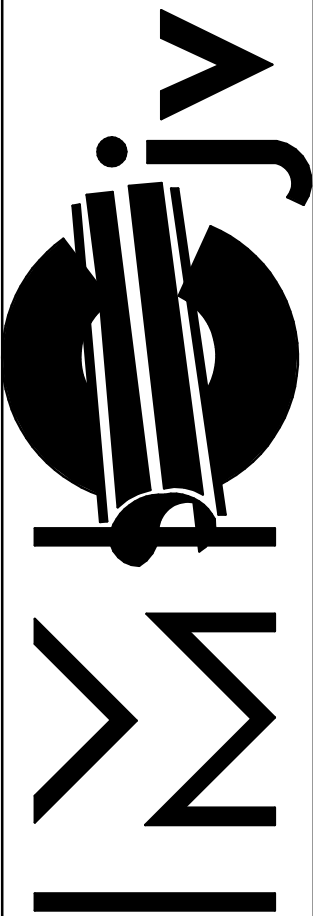
1 AS-L07-023 - ISOMETRIC  
AS-L07-023 SCALE:



2 AS-L07-023  
AS-L07-023 SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

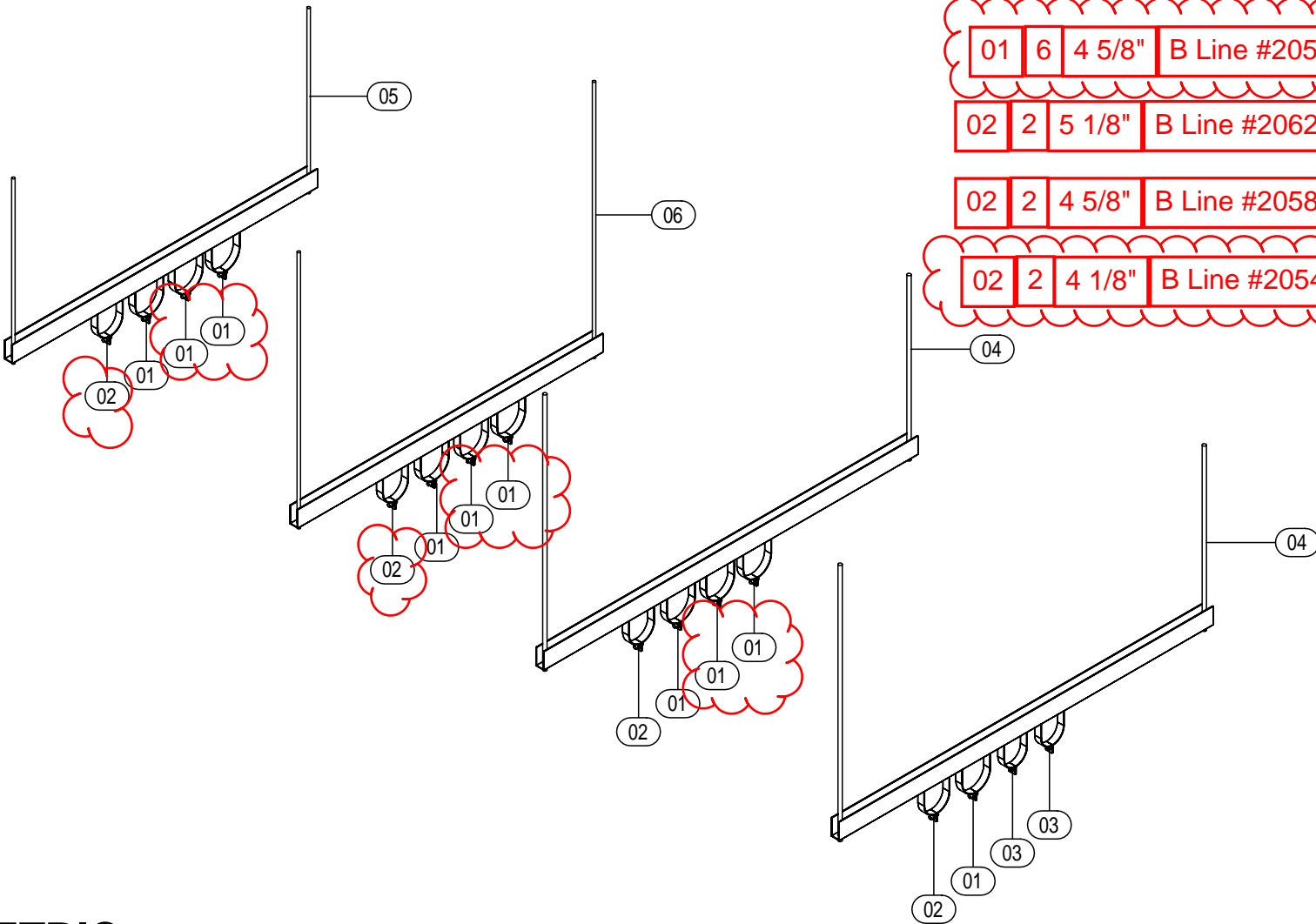
JOB:	WASH U NRB
TICKET:	AS-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



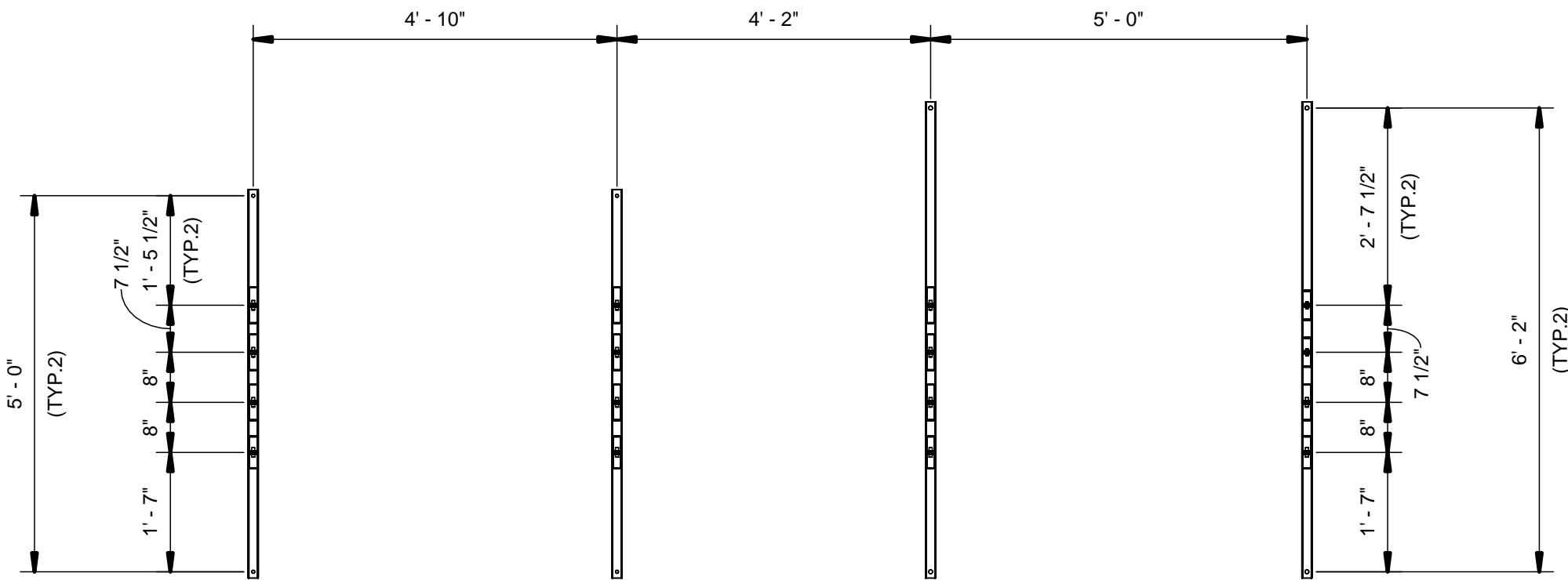
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360/WUSM NRBWUSM\_RB\_HPE.rvt  
23-11-2021 11:59:50

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	<del>10</del>	<del>5"</del>	<del>B-Line B2000 ZN Sch 40 Pipe Clamp</del>		0"		0"	
02	<del>4</del>	<del>4.5"</del>	<del>B-Line B2000 ZN Sch 40 Pipe Clamp</del>		0"		0"	
03	2	4"	B-Line B2000 ZN Sch 40 Pipe Clamp		0"		0"	
04	2	72"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut		6" - 4"	4' - 0 5/8"	2' - 8 5/8"	
05	1	58"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut		5" - 2"	2' - 8 5/8"	2' - 8 5/8"	
06	1	58"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut		5" - 2"	4' - 0 5/8"	4' - 0 5/8"	



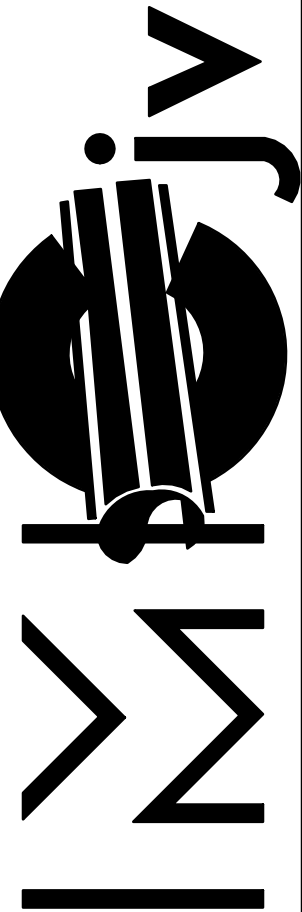
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

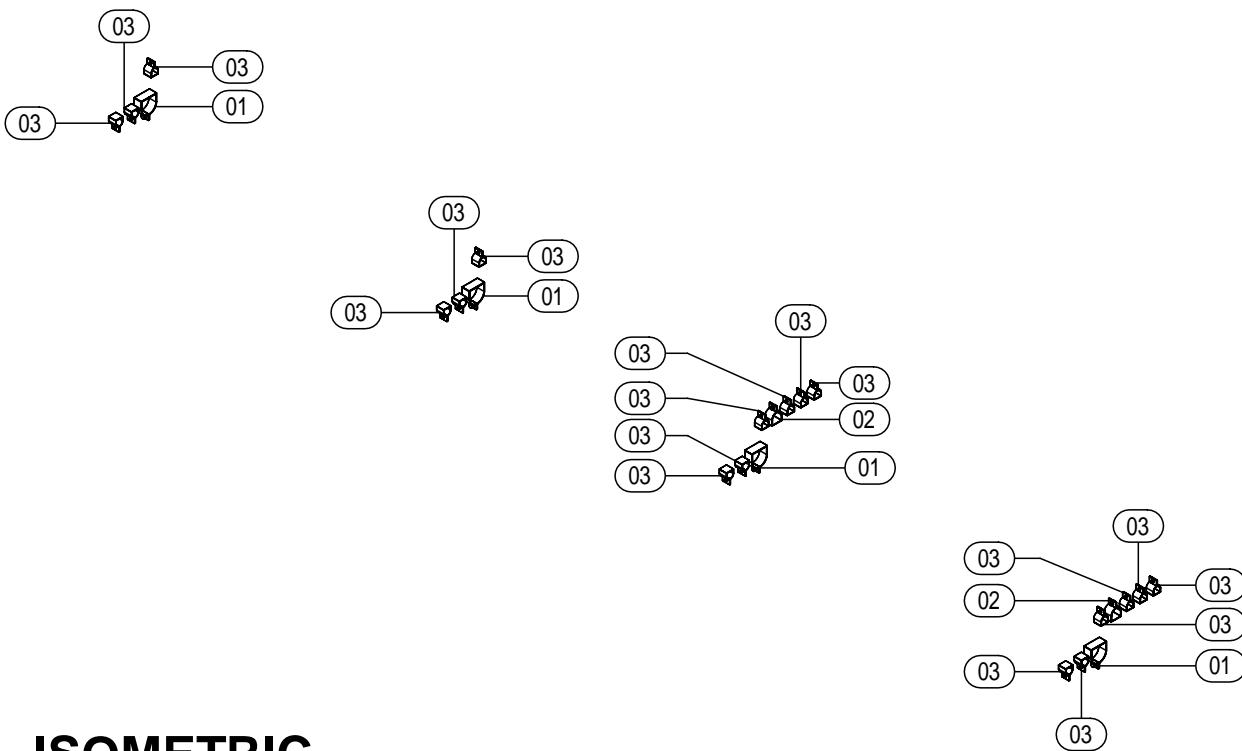
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TICKET:	HPHGR-L07-023
Drawn By:	Author
DATE:	11/23/21
DATE REQ:	



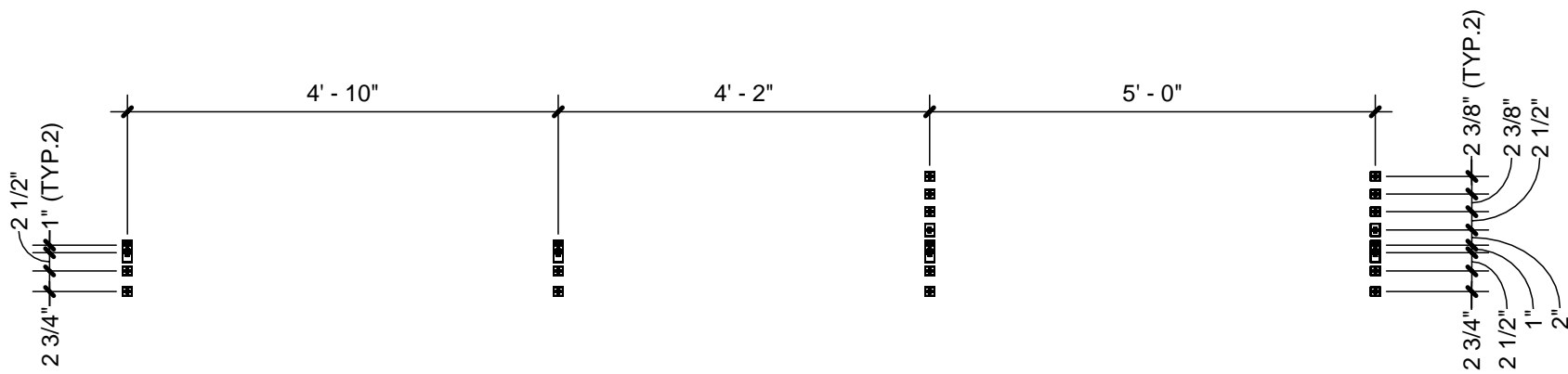
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:13:20

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	4	2"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	
02	2	1.25"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	
03	18	0.75"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	



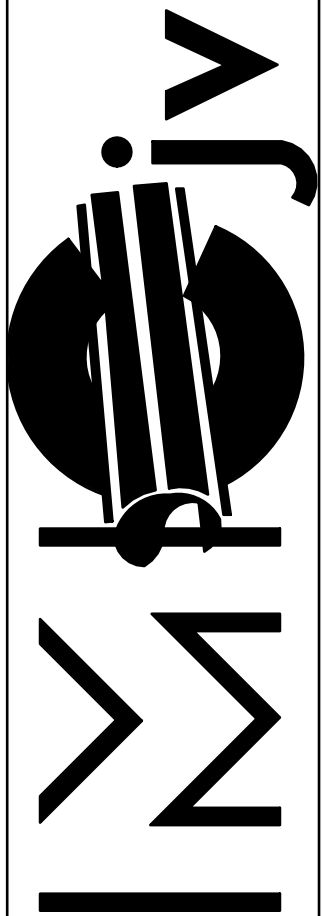
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

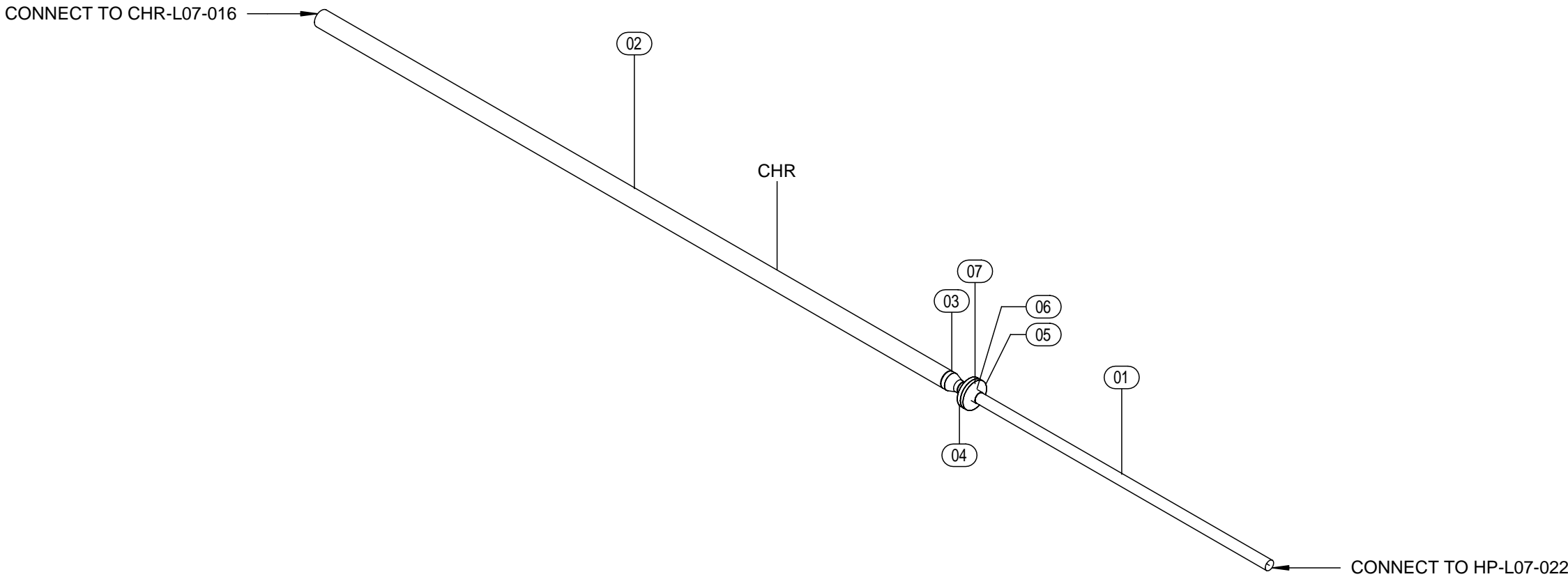
JOB:	WASH U NRB
TICKET:	PUHGR-L07-023
Drawn By:	Author
DATE:	11/23/21
DATE REQ:	



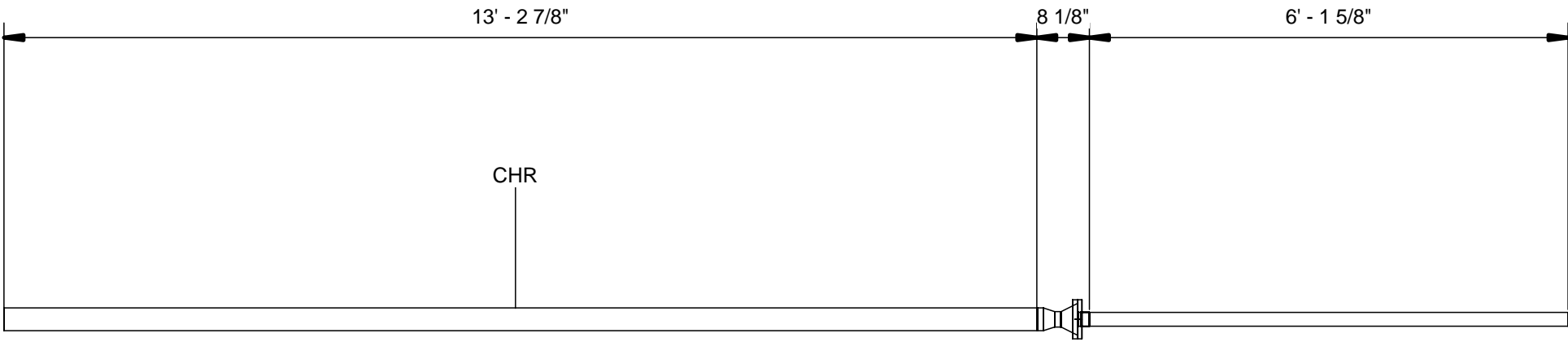
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360/WUSM NRBWUSM\_RB\_HPF.rvt  
23-11-2021 12:00:42

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	2"	Cerro Type K Hard Copper Pipe	6'-2 15/16"				1"
02	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	13'-2 13/16"				1"
03	1	3"x2"	Weldbend Std Wt SA234 WPB CS BW CONC RED					1"
04	1	2"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg					1"
05	1	2"	Nibco 150lb 672 2pc LF Compainion Flange					1"
06	1	2"	Generic 150# RF Garlock Gasket 1/16 Thick					1"
07	1	2"	Generic 150# CS Flange Bolt Set					



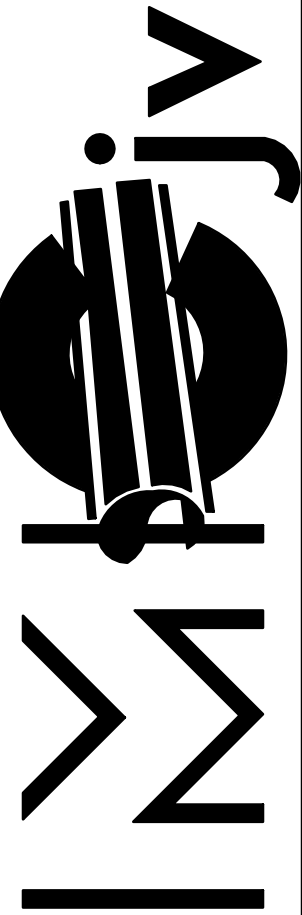
1 ISOMETRIC  
SCALE:



2 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

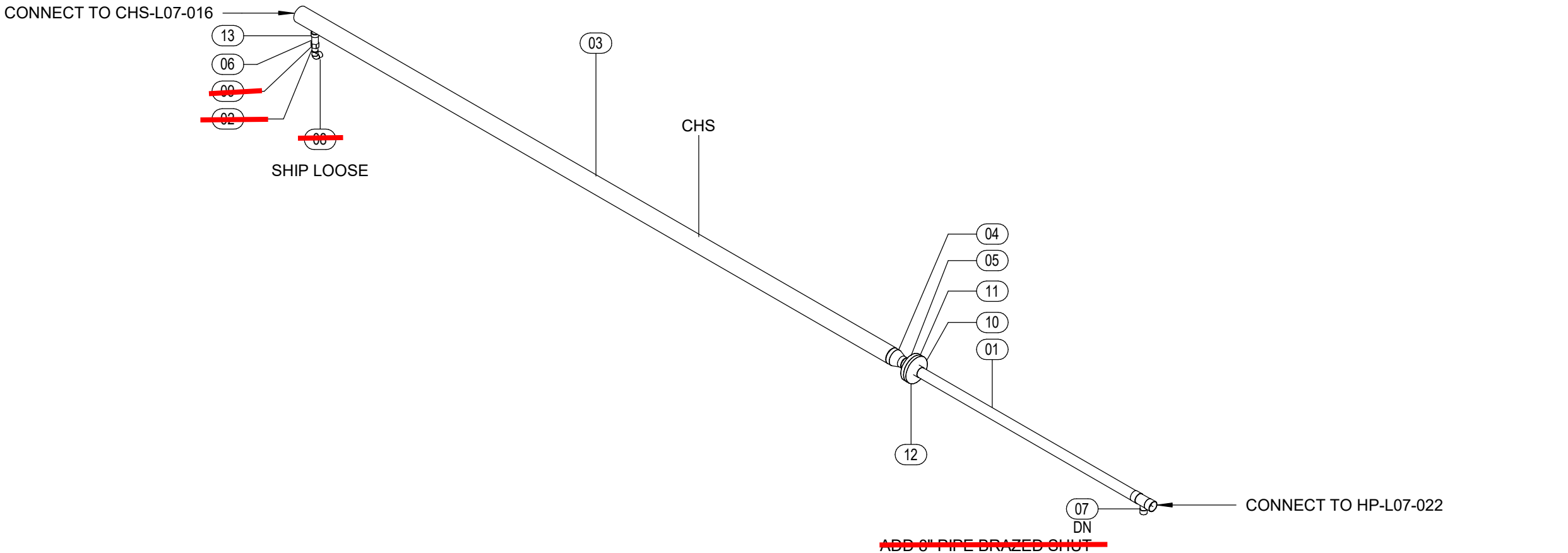
JOB: WASH U NRB  
TICKET: CHR-L07-023  
Drawn By: Author  
DATE: 11/23/21  
DATE REQ:



1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

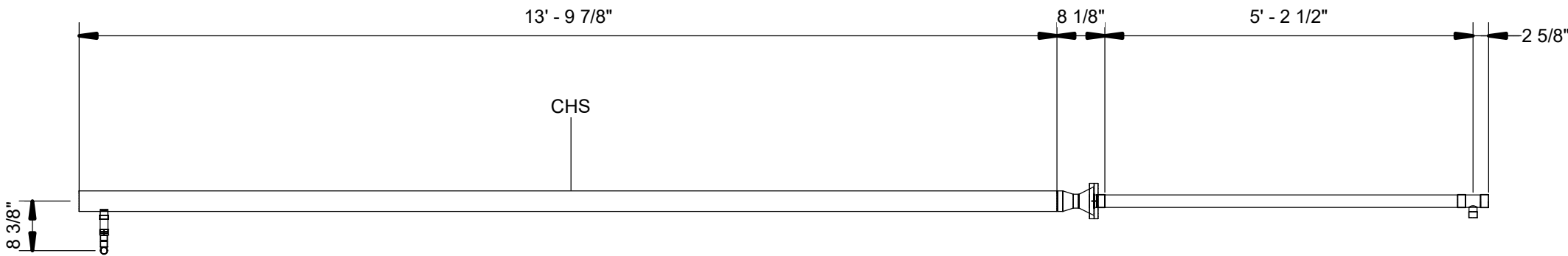
BIM 360://WUSM NRBWUSM\_RB\_HPF.rvt  
12/15/2021 11:39:52 AM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	2"	Cerro Type K Hard Copper Pipe	5'-2 1/2"				1"
02	1	1"	Cerro Type K Hard Copper Pipe	0'-2"				1"
03	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	13'-9 13/16"				1"
04	1	3"x2"	Weldbend Std Wt SA234 WPB CS BW CONC RED					1"
05	1	2"	Weldbend 150lb RF Sch 40 Bore SA105 CS WN Flg					1"
06	1	1"	Victaulic No.647 TT Dielectric Transition Fitting					1"
07	1	2"x1 1/4"	Nibco Wrot 611R CxCxC Reducing Tee					1"
08	1	1"	Nibco Wrot 607 30 Deg Ell CxC					1"
09	1	1"	Nibco Wrot 603 Adapter CxF					1"
10	1	2"	Nibco 150lb 672 2pc LF Compainion Flange					1"
11	1	2"	Generic 150# RF Garlock Gasket 1/16 Thick					1"
12	1	2"	Generic 150# CS Flange Bolt Set					
13	1	3"x1"	Anvil 3000# FS Thread-O-Let					1"



1 ISOMETRIC

SCALE:



2 FRONT ELEVATION

SCALE: 1/2\"/>

A1	A3	B1	B3
A2	A4	B2	B4

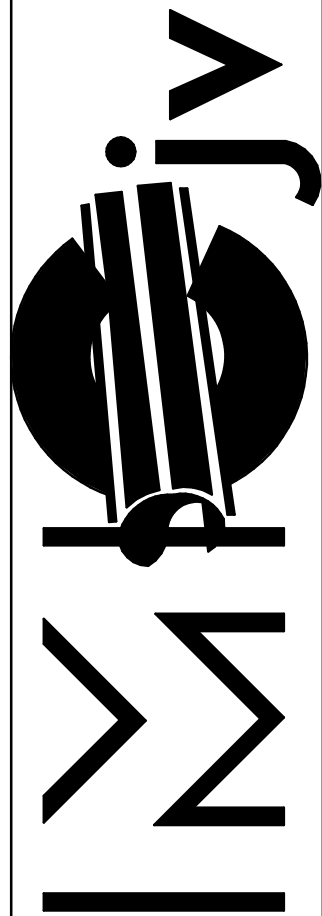
JOB: 210140 - WASH U NRB

TICKET: CHS-L07-023

Drawn By: Author

DATE: 11/23/21

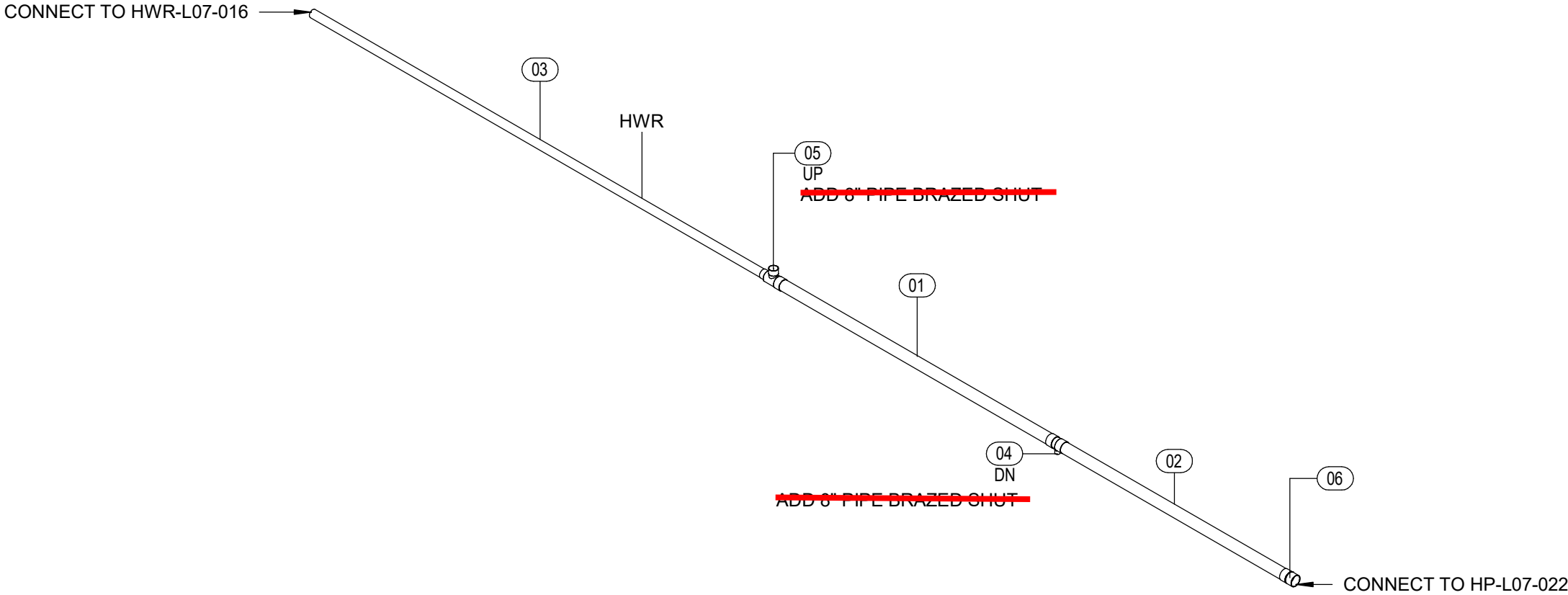
DATE REQ:



1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

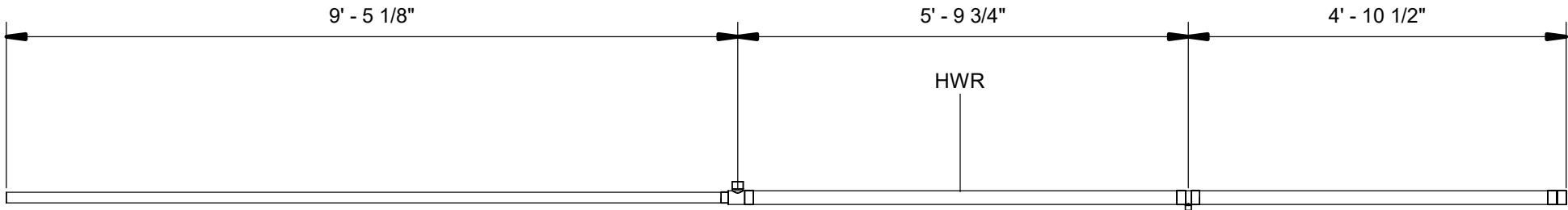
BIM 360://WUSM NRBWUSM\_RB\_HPF.rvt  
12/15/2021 1:28:31 PM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	2"	Cerro Type K Hard Copper Pipe	5'-8 3/16"				1 1/2"
02	1	2"	Cerro Type K Hard Copper Pipe	4'-8 9/16"				1 1/2"
03	1	1 1/2"	Cerro Type K Hard Copper Pipe	9'-3 11/16"				1 1/2"
04	1	2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
05	1	2"x1 1/2"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
06	1	2"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1 1/2"



1 ISOMETRIC

SCALE:

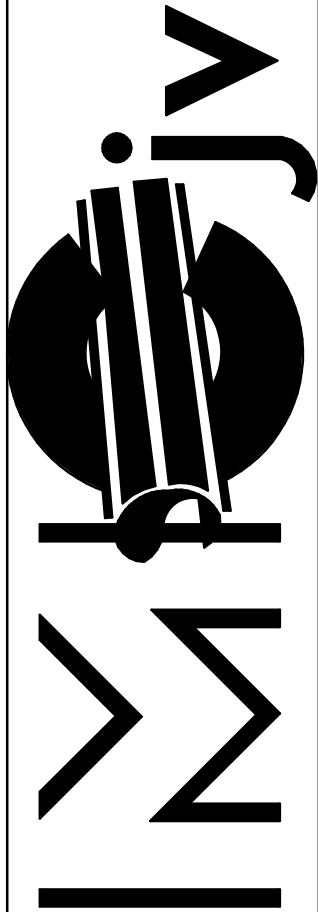


2 FRONT ELEVATION

SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

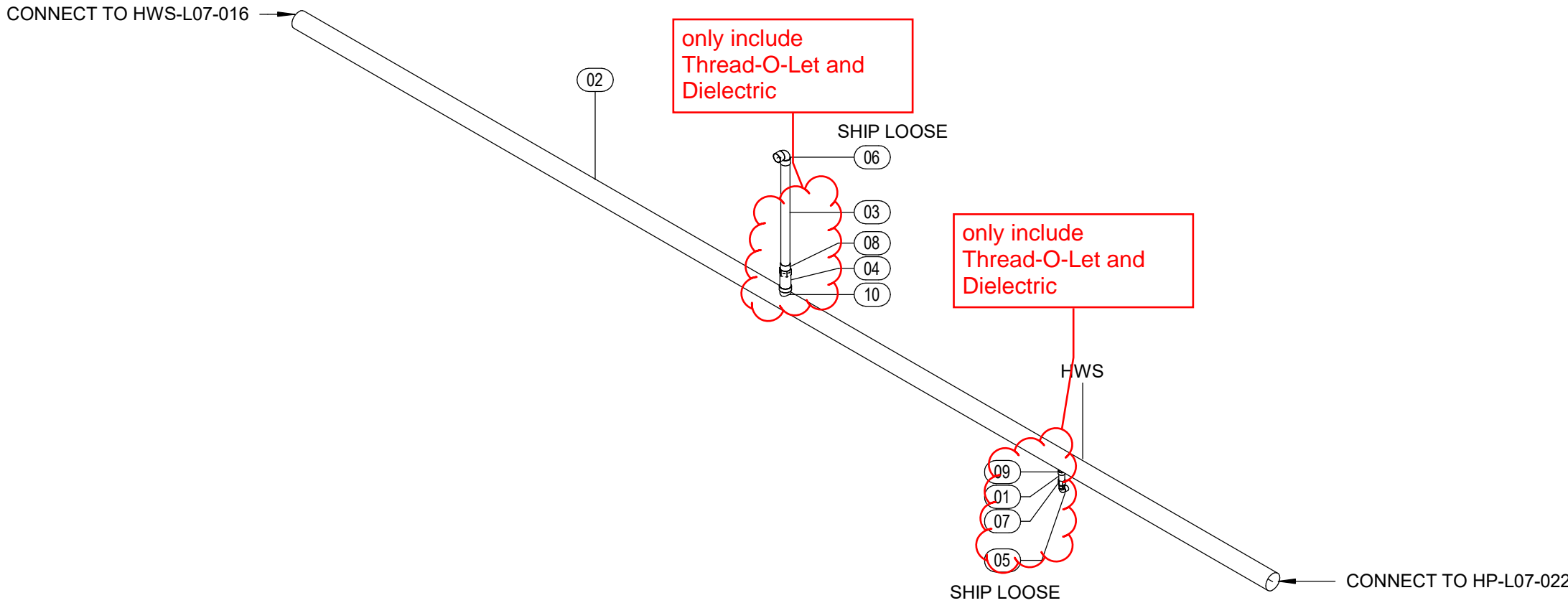
JOB: 210140 - WASH U NRB  
TICKET: HWR-L07-023  
Drawn By: Author  
DATE: 11/23/21  
DATE REQ:



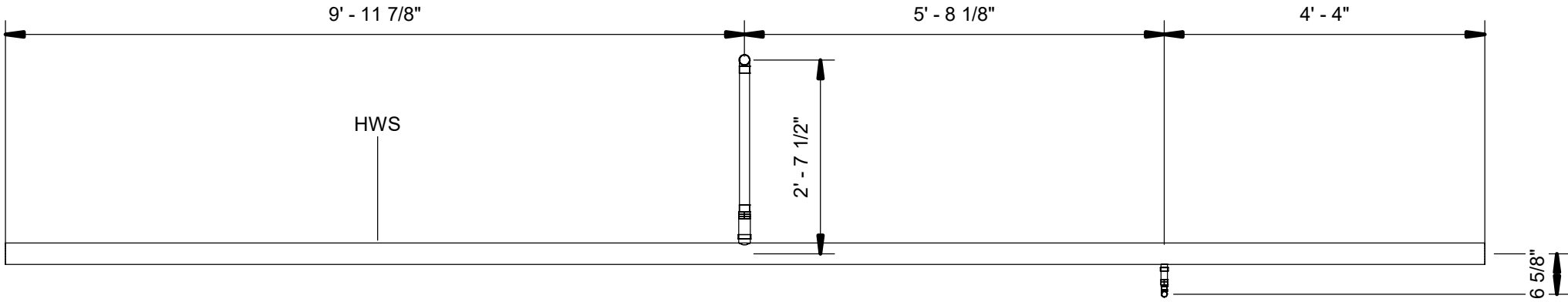
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360//WUSM NRBWUSM\_RB\_HPF.rvt  
12/15/2021 3:26:55 PM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Victaulic No.647 TT Dielectric Transition Fitting	0'-3"				1"
02	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	19'-11 7/8"				1 1/2"
03	1	1 1/2"	Cerro Type K Hard Copper Pipe	1'-11 3/16"				1 1/2"
04	1	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting					1 1/2"
05	1	3/4"	Nibco Wrot 687 90 Deg Ell O x O					1"
06	1	1 1/2"	Nibco Wrot 687 90 Deg Ell O x O					1 1/2"
07	1	3/4"	Nibco Wrot 688 Adapter O x F					1"
08	1	1 1/2"	Nibco Wrot 688 Adapter O x F					1 1/2"
09	1	3"x3/4"	Anvil 3000# FS Thread-O-Let					1"
10	1	3"x1 1/2"	Anvil 3000# FS Thread-O-Let					1 1/2"



1 ISOMETRIC  
SCALE:



2 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

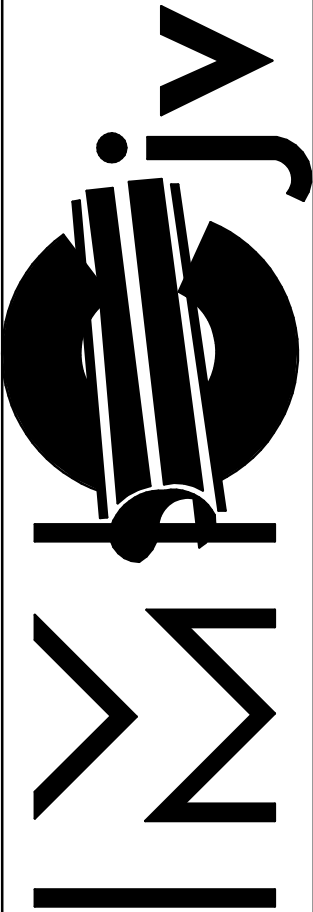
JOB: 210140 - WASH U NRB

TICKET: HWS-L07-023

Drawn By: Author

DATE: 11/23/21

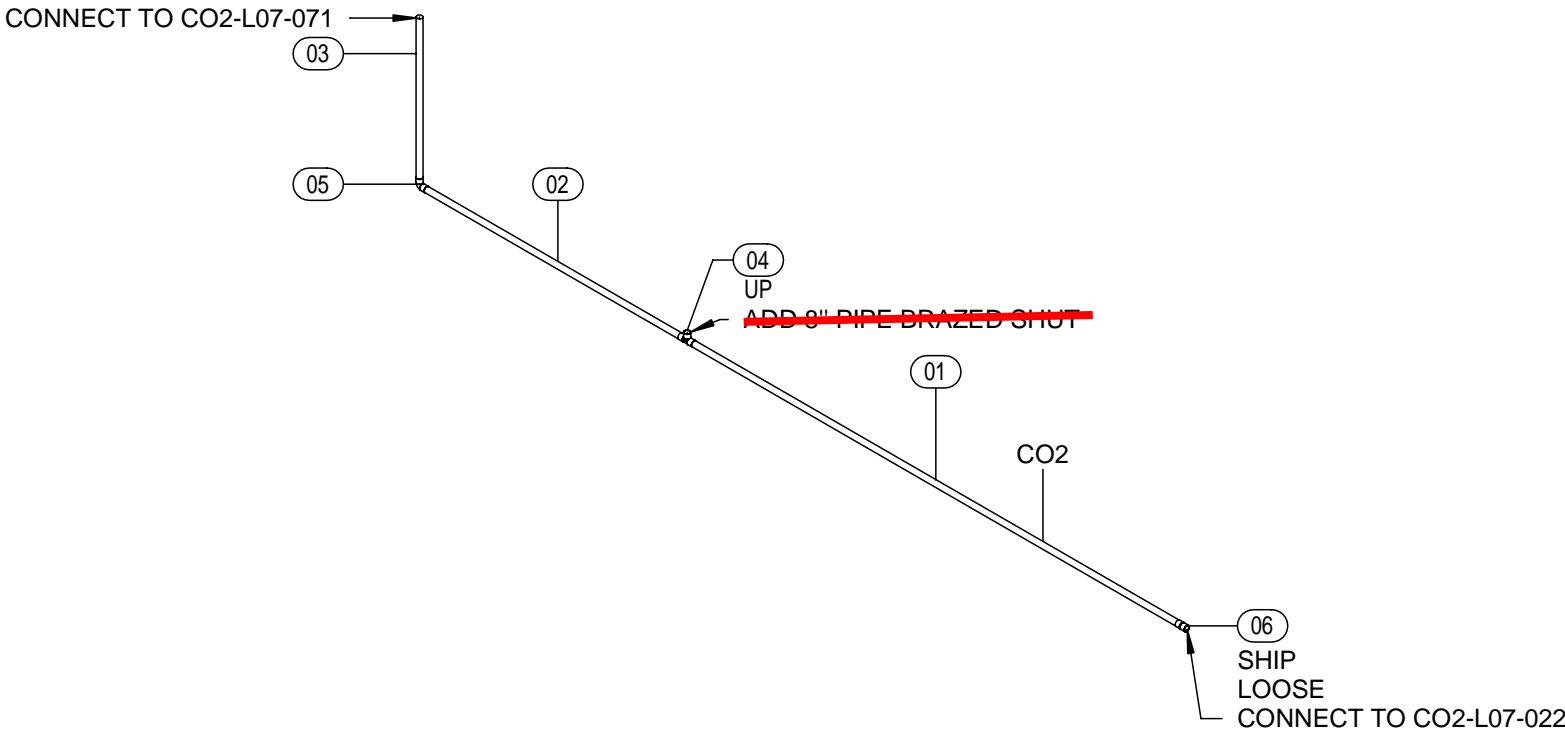
DATE REQ:



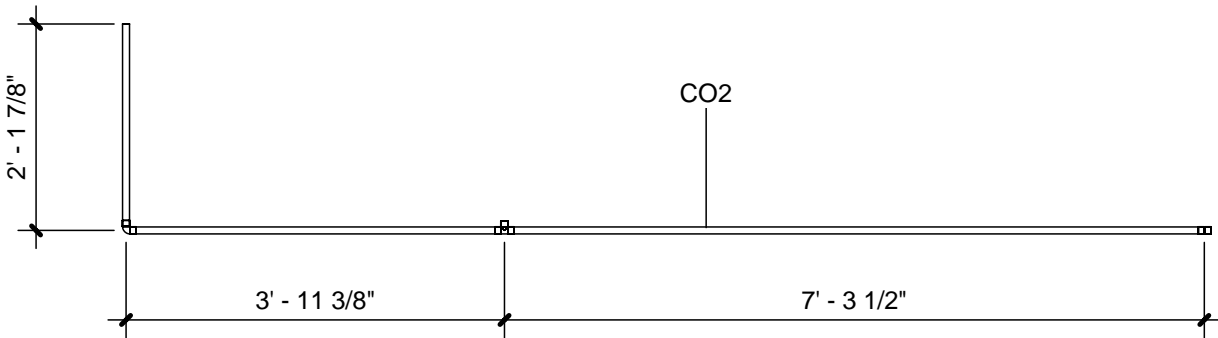
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:03:18

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	7'-3 1/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	3'-10 3/8"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	2'-1 5/16"				
04	1	3/4"	Nibco 611-CB CFOS Wrot Copper Tee					
05	1	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					
06	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					



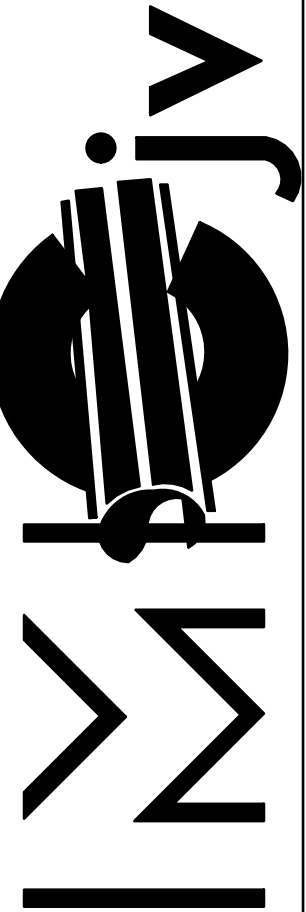
1 ISOMETRIC  
SCALE:



2 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	CO2-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:

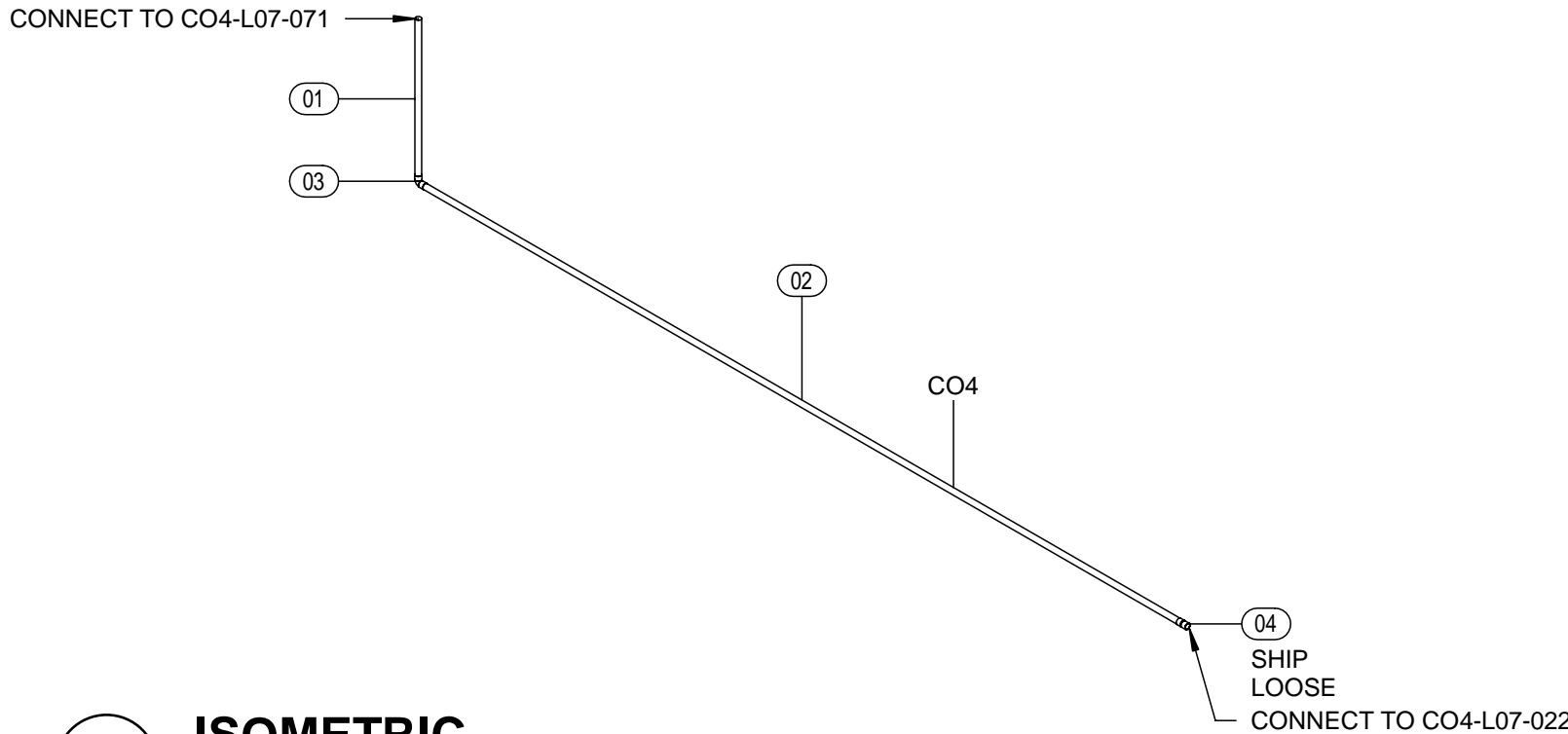


1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

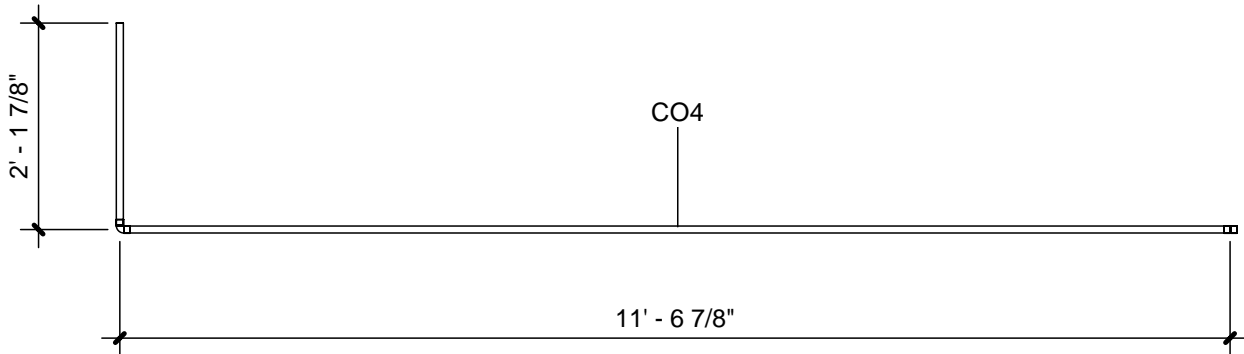


BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:02:30

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	2'-1 5/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	11'-6 3/8"				
03	1	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					
04	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					



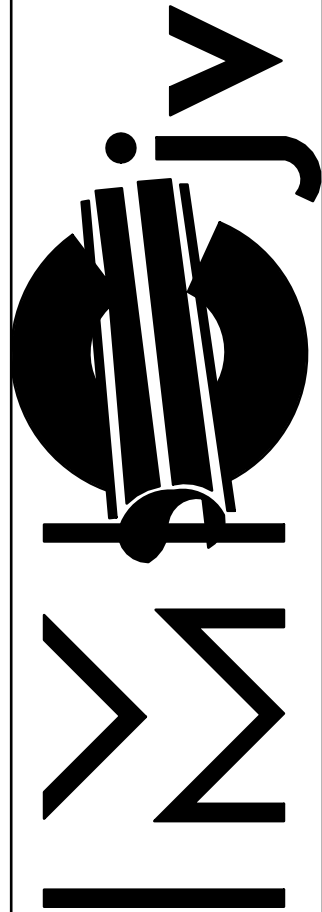
1 ISOMETRIC  
SCALE:



2 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

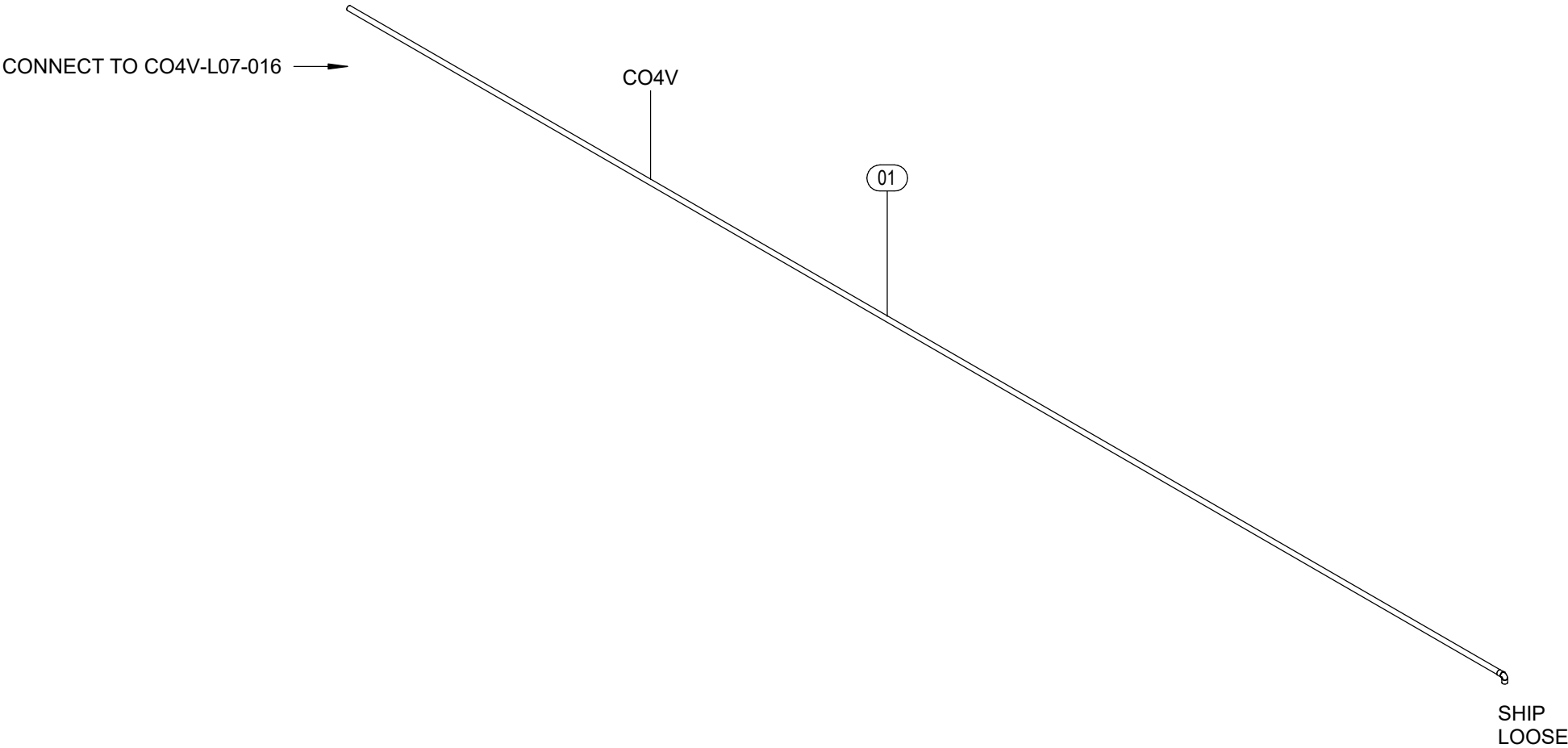
JOB: WASH U NRB  
TICKET: CO4-L07-023  
Drawn By: Author  
DATE: 11/23/21 DATE REQ:



1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
2/1/2022 2:55:33 PM

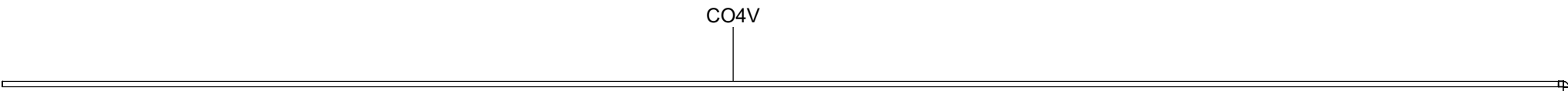
Mark	Qty	Size	Description	Length	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	21'-1"	
02	1	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow		



1

ISOMETRIC

SCALE:



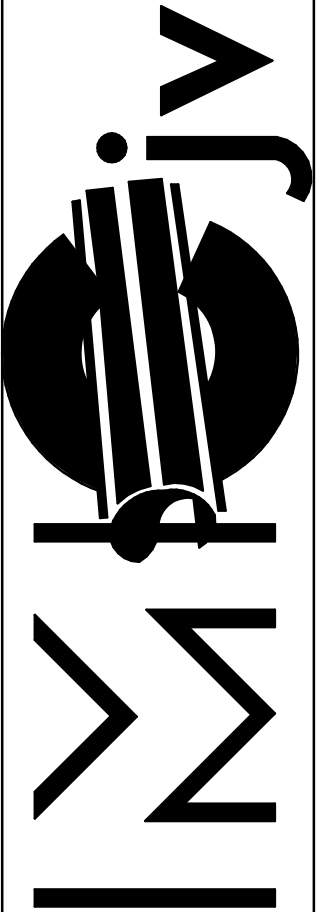
3

FRONT ELEVATION

SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

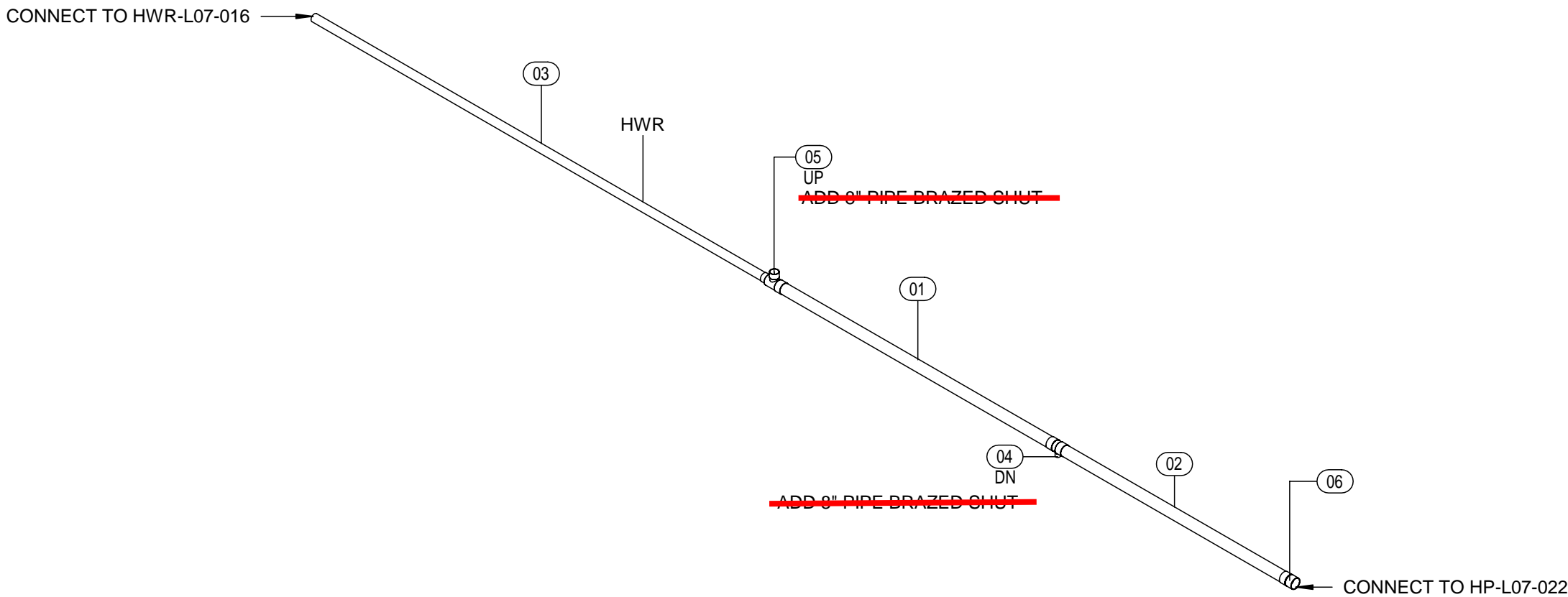
JOB:	WASH U NRB
TICKET:	CO4V-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

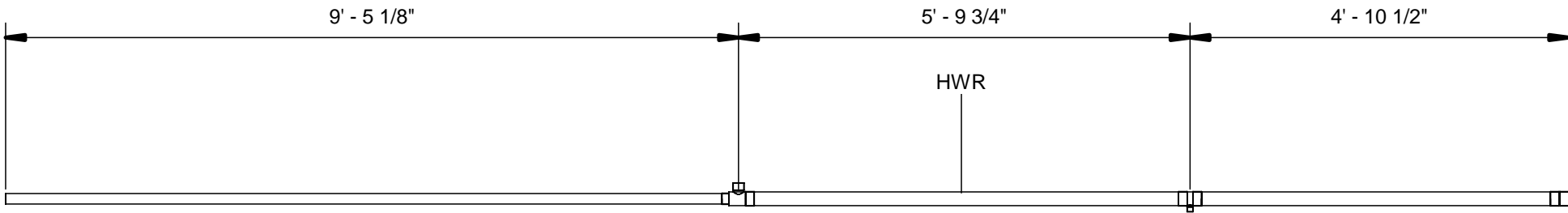
BIM 360/WUSM NRBWUSM\_RB\_HPE.rvt  
23-11-2021 12:02:54

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	2"	Cerro Type K Hard Copper Pipe	5'-8 3/16"				1 1/2"
02	1	2"	Cerro Type K Hard Copper Pipe	4'-8 9/16"				1 1/2"
03	1	1 1/2"	Cerro Type K Hard Copper Pipe	9'-3 11/16"				1 1/2"
04	1	2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
05	1	2"x1 1/2"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
06	1	2"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1 1/2"



1 ISOMETRIC

SCALE:

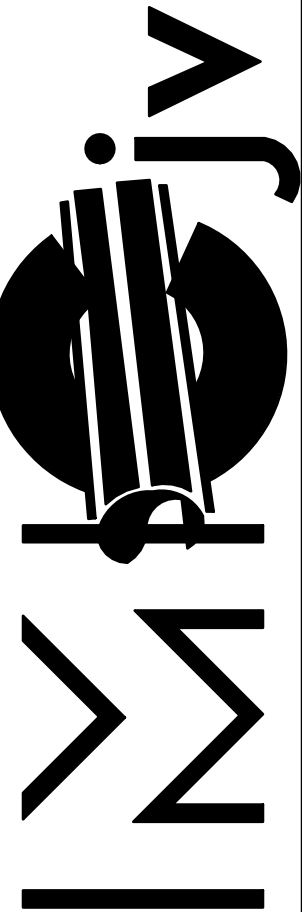


2 FRONT ELEVATION

SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

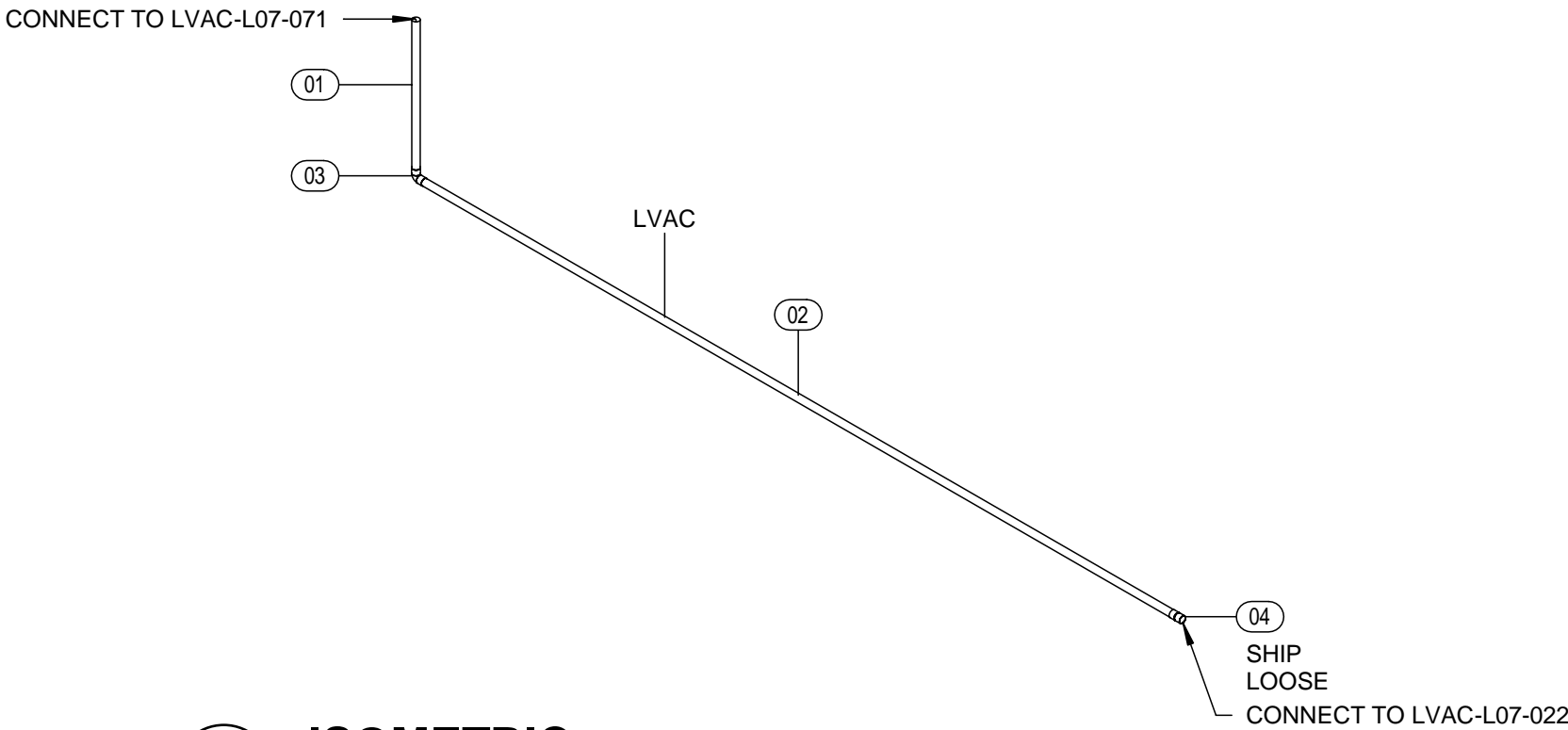
JOB:	WASH U NRB
TICKET:	HWR-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



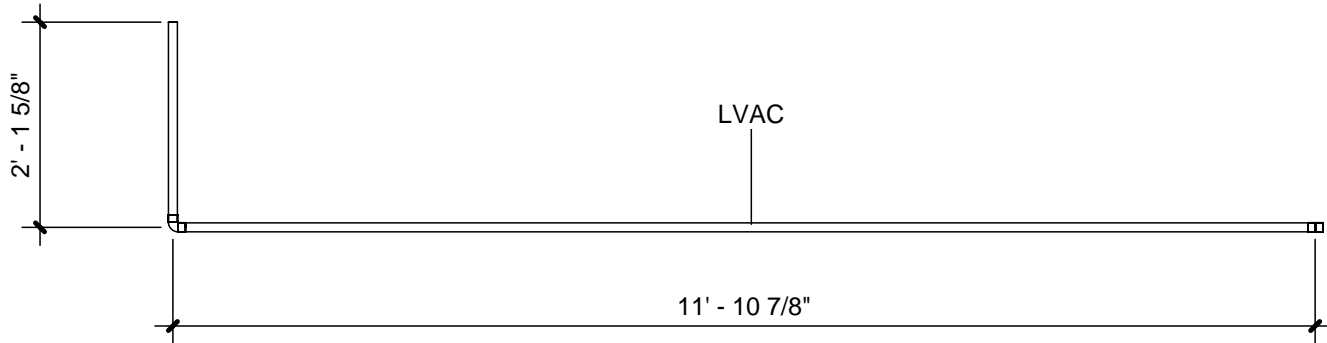
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360//WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:01:11

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1"	Cerro Type L Hard Copper - CFOS	2'-1"				
02	1	1"	Cerro Type L Hard Copper - CFOS	11'-10 3/16"				
03	1	1"	Nibco 607-CB CFOS Wrot 90 Elbow					
04	1	1"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					



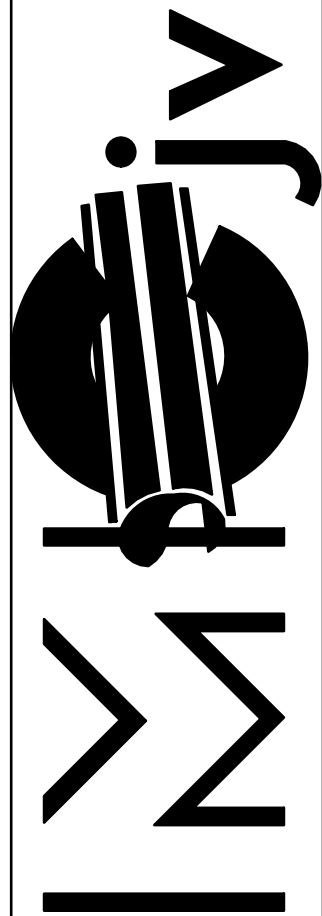
1 ISOMETRIC  
SCALE:



5 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

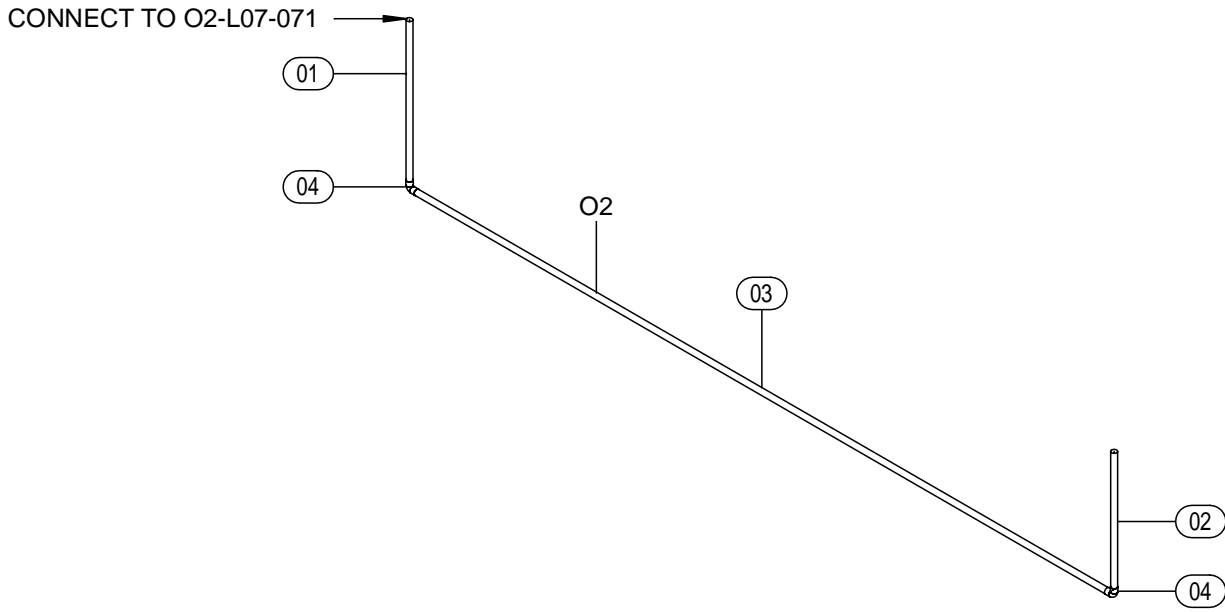
JOB:	WASH U NRB
TICKET:	LVAC-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



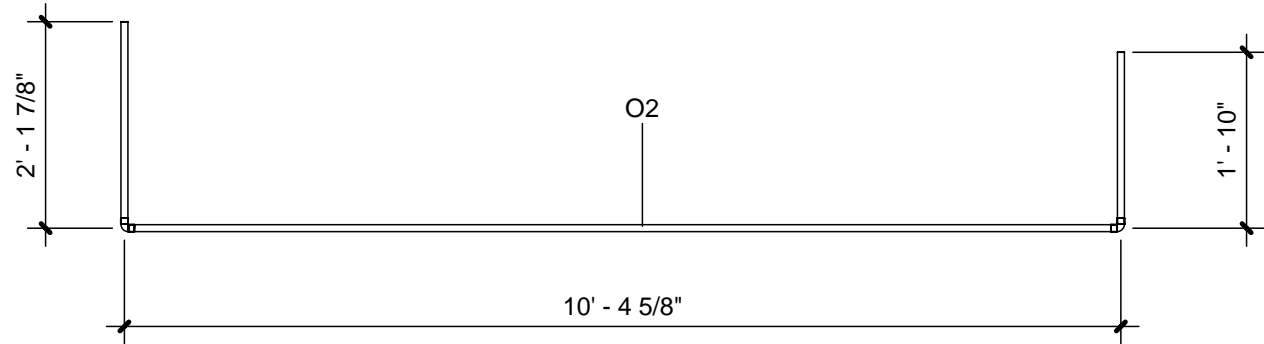
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:03:59

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	2'-1 5/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-9 1/2"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	10'-3 5/8"				
04	2	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					



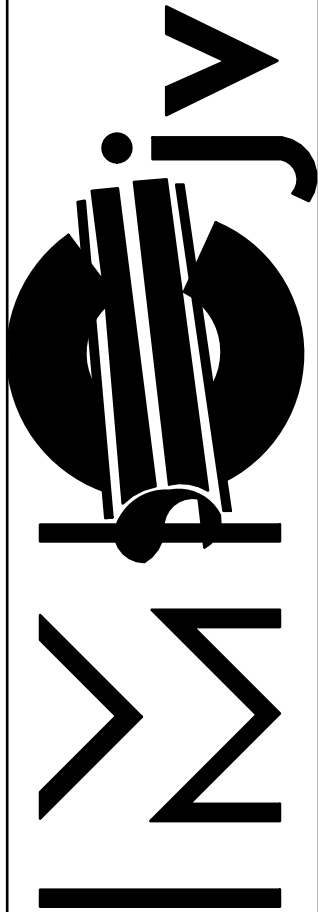
1 ISOMETRIC  
SCALE:



2 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

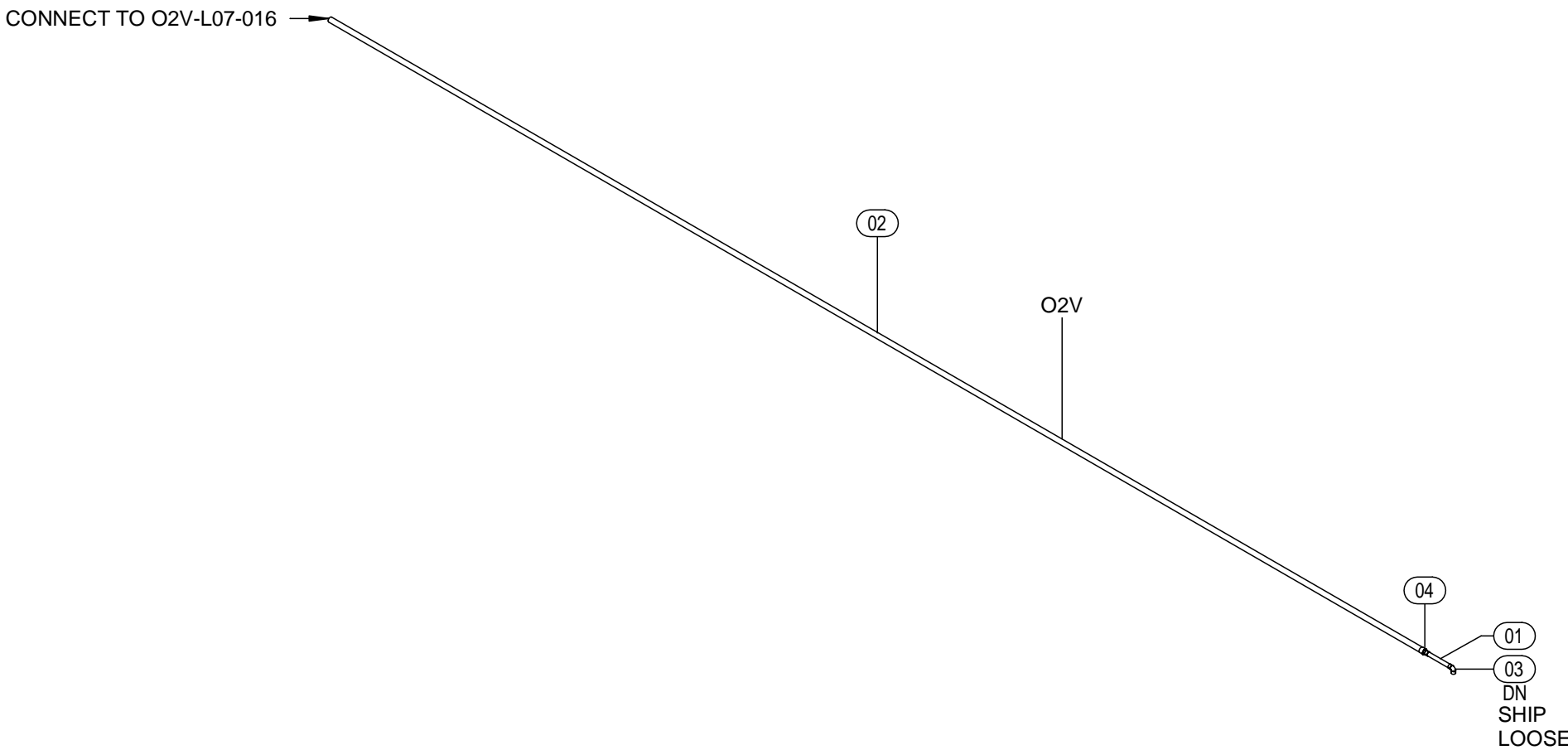
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TICKET: O2-L07-023  
Drawn By: Author  
DATE: 11/23/21 DATE REQ:



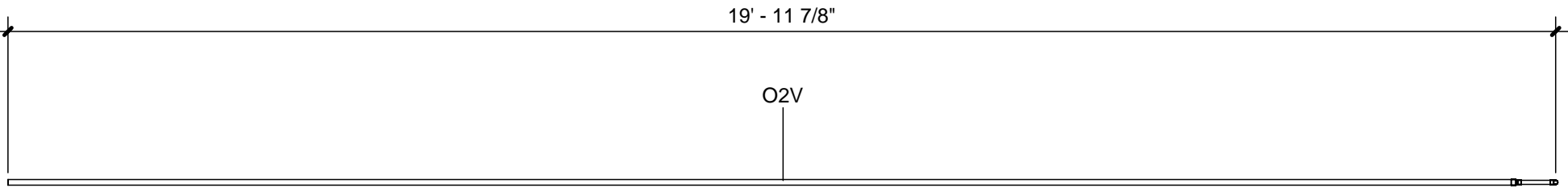
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 17:58:24

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1/2"	Cerro Type L Hard Copper - CFOS	0'-5 1/2"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	19'-5 11/16"				
03	1	1/2"	Nibco 607-CB CFOS Wrot 90 Elbow					
04	1	3/4"x1/2"	Nibco 600R-CB CFOS Wrot Copper Reducing Coupling					



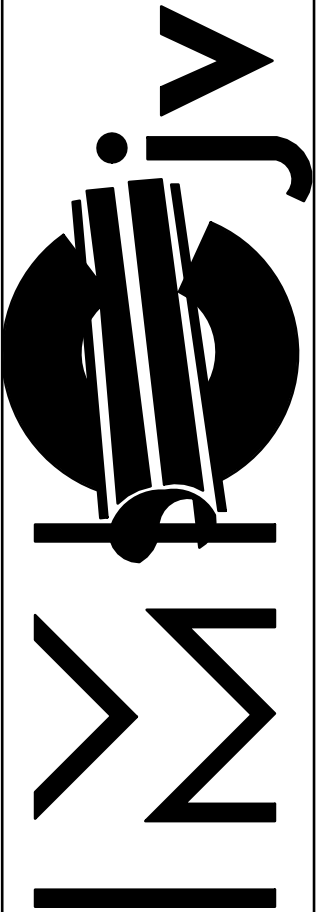
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

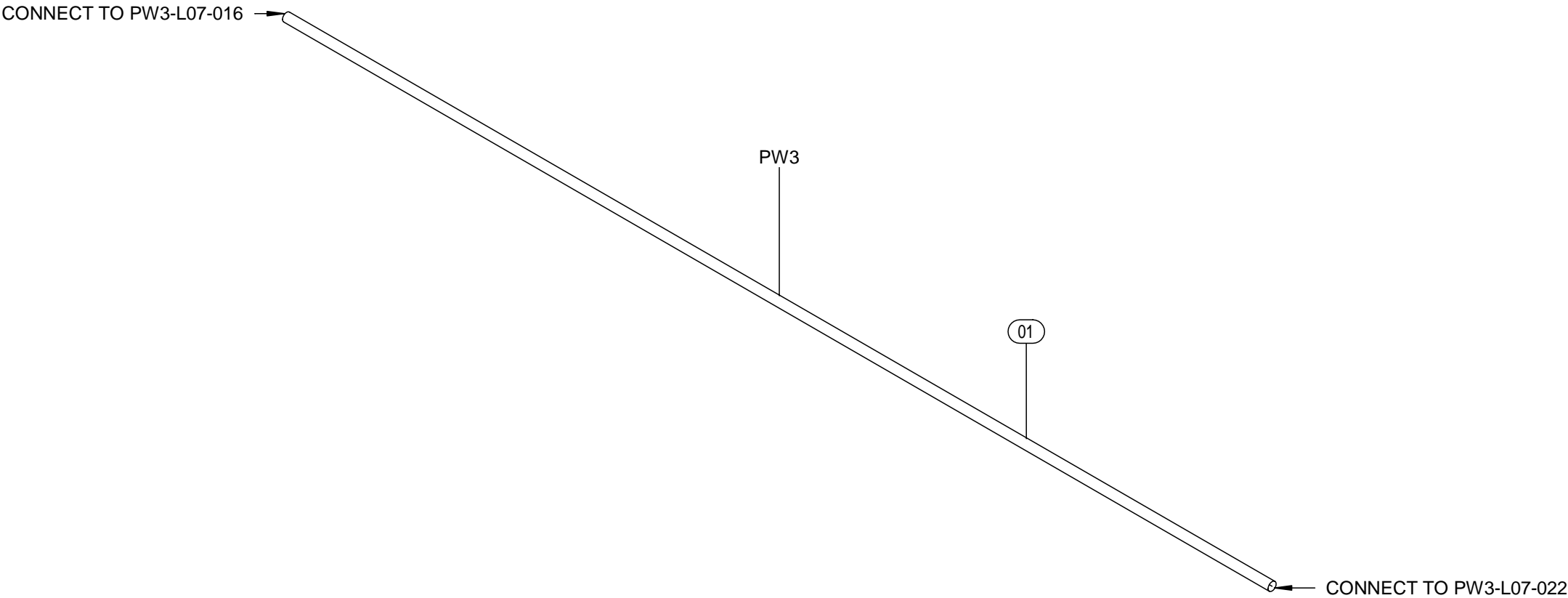
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TICKET:	O2V-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



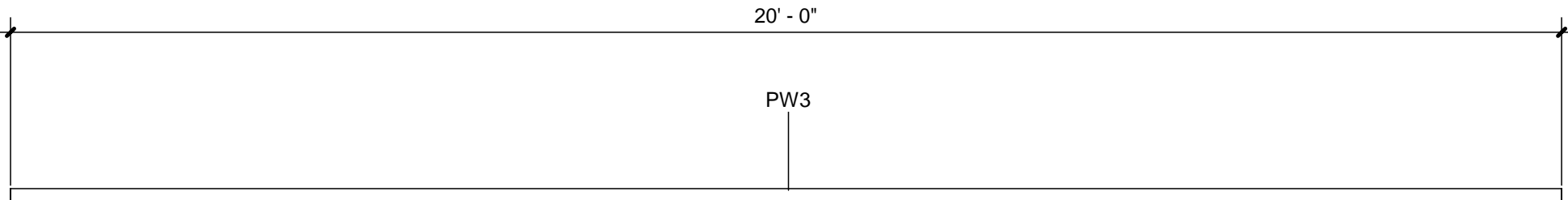
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23-11-2021 17:59:48

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Geroge Fischer Slone PROGEF STD-PP IR Butt-Fusion Pipe	20'-0"				



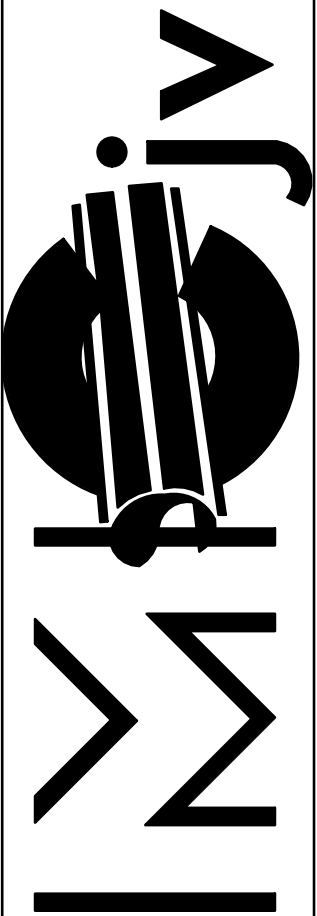
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	PW3-L07-023
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



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