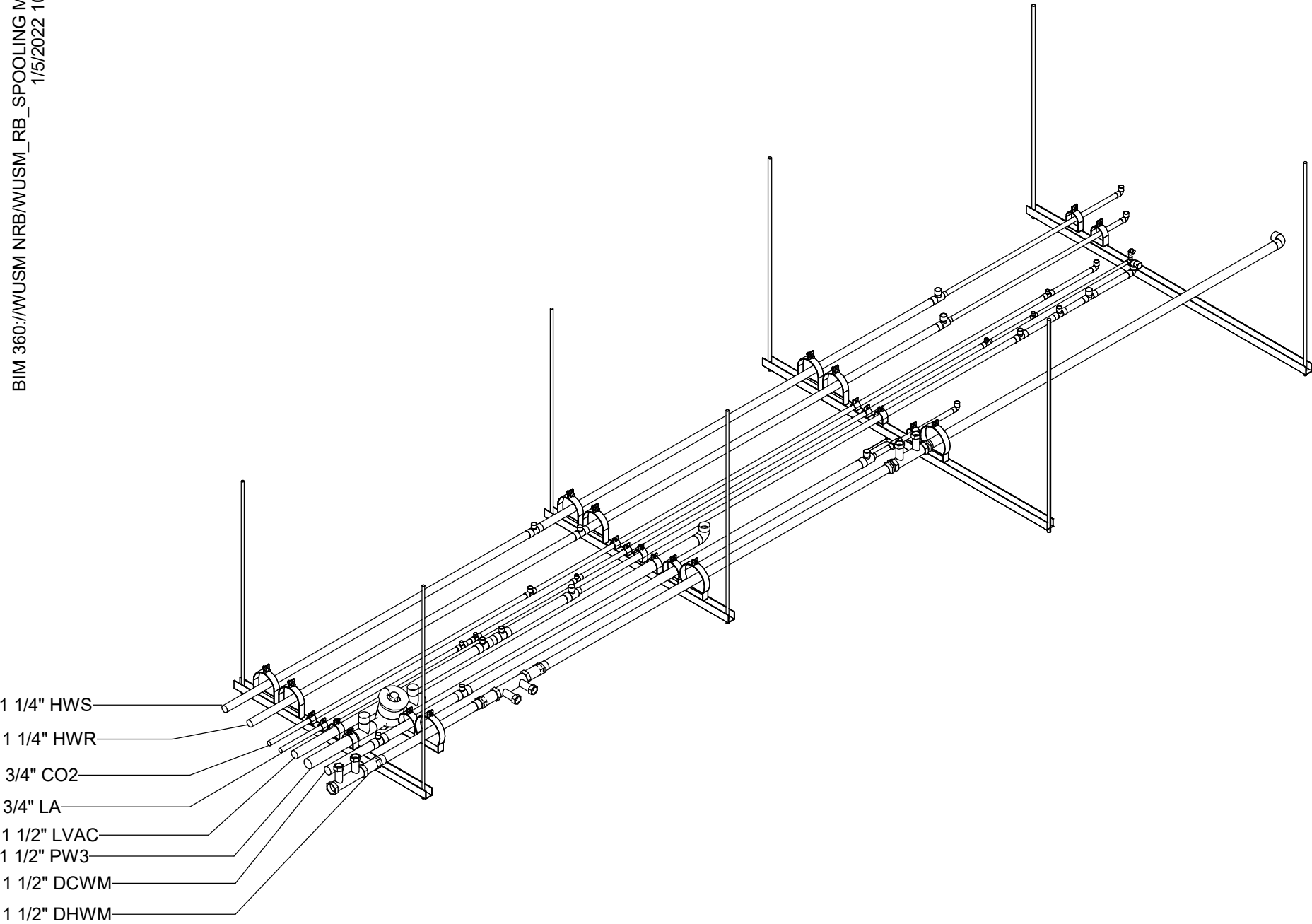


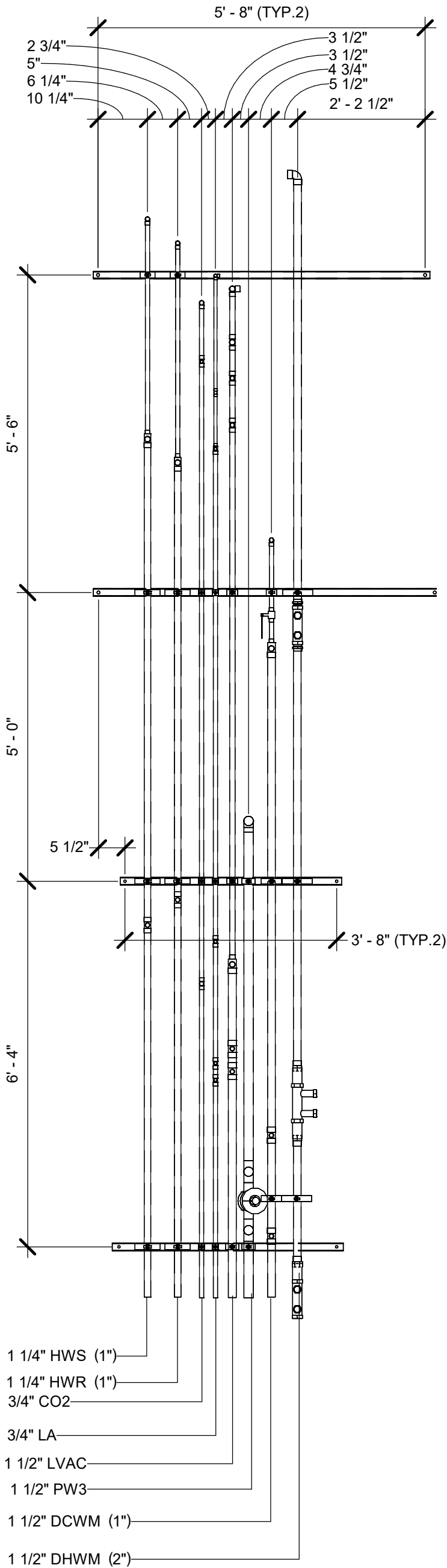
BIM 360//WUSM NRBWUSM\_RB\_SPOOLING MASTER.rvt  
1/5/2022 10:48:37 AM



1 AS-L07-067 - ISOMETRIC  
AS-L07-067 SCALE:

A1	A3	B1	B3
A2	A4	B2	B4

2 AS-L07-067  
AS-L07-067 SCALE: 1/2" = 1'-0"



JOB: WASH U NRB

TICKET: AS-L07-067

Drawn By: Author

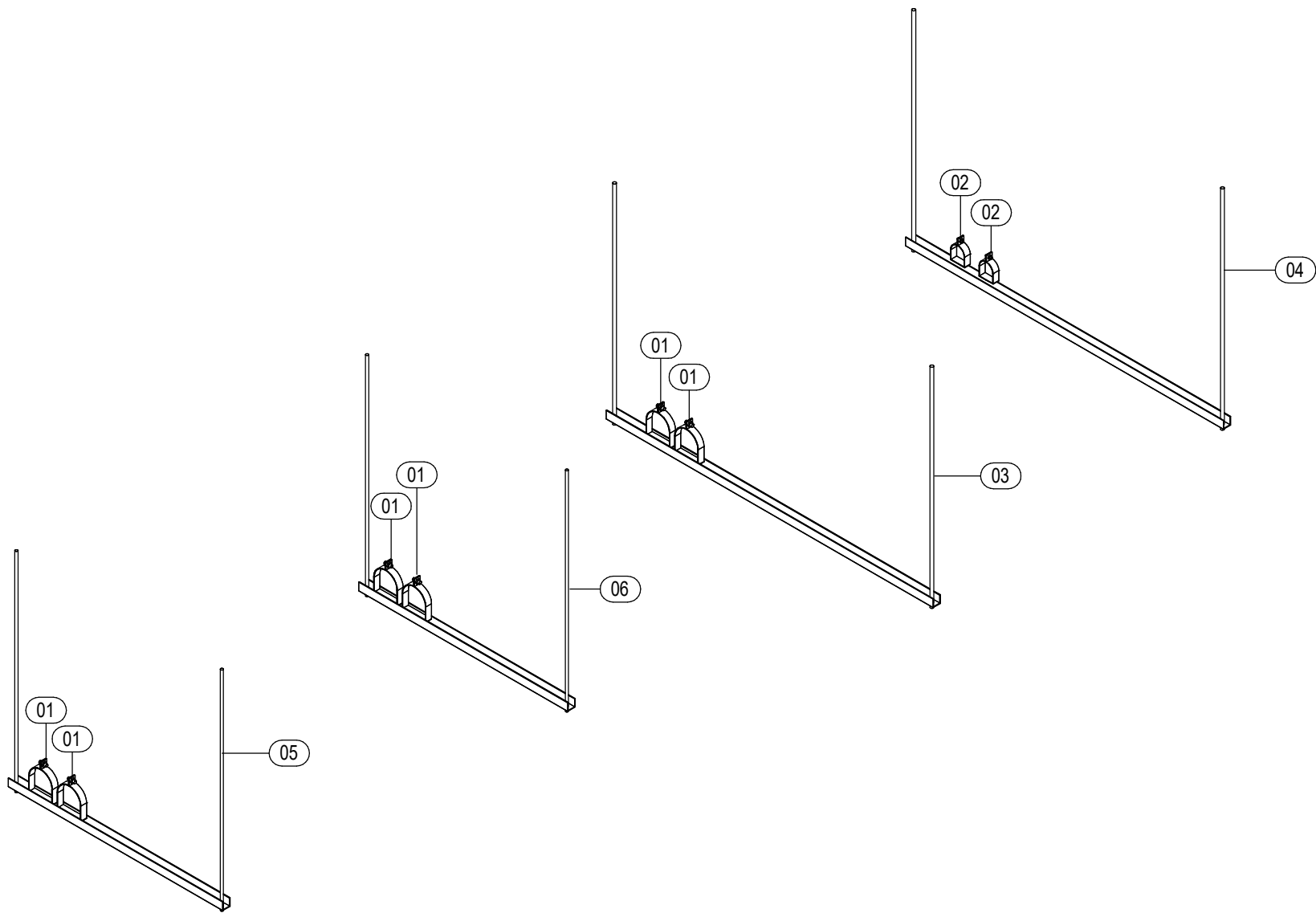
DATE REQ: 11/24/21



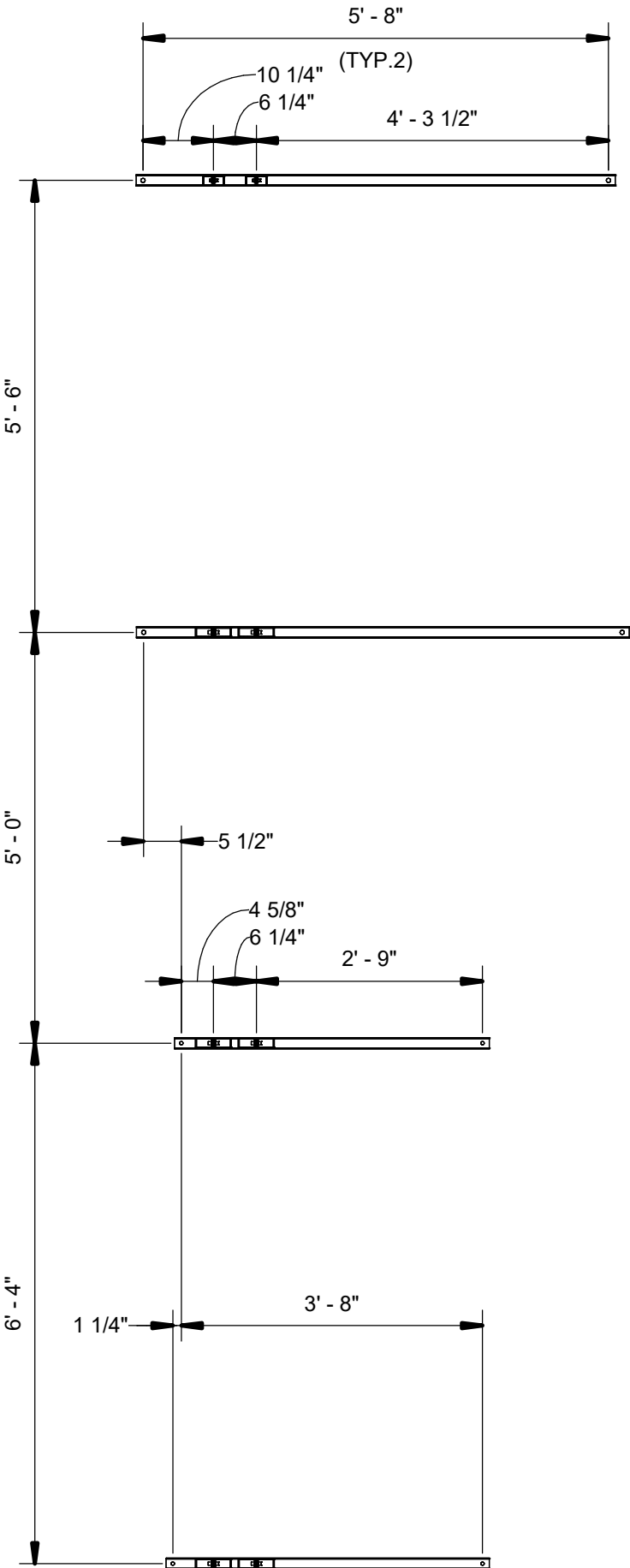
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_HPF.rvt  
12/11/2021 9:30:31 AM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
<del>01</del>	<del>6</del>	<del>1.5"</del>	<del>B-Line B2000 ZN Schl 40 Pipe Clamp</del>	<del>6"</del>	<del>6"</del>			
<del>02</del>	<del>2</del>	<del>2.5"</del>	<del>B-Line B2000 ZN Schl 40 Pipe Clamp</del>	<del>6"</del>	<del>6"</del>			
03	1	67 7/8"	B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut		5' - 11 7/8"	3' - 10"	3' - 10"	
04	1	66"	B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut		5' - 10"	3' - 10"	3' - 10"	
05	1	43 1/4"	B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut		3' - 10"	3' - 10"	3' - 10"	
06	1	42"	B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut		3' - 10"	3' - 10"	3' - 10"	
01	6	3 3/8"	B-LINE #2048					
02	2	5 5/8"	B-LINE #2066					



1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB

TICKET: HPHGR-L07-067

Drawn By: Author

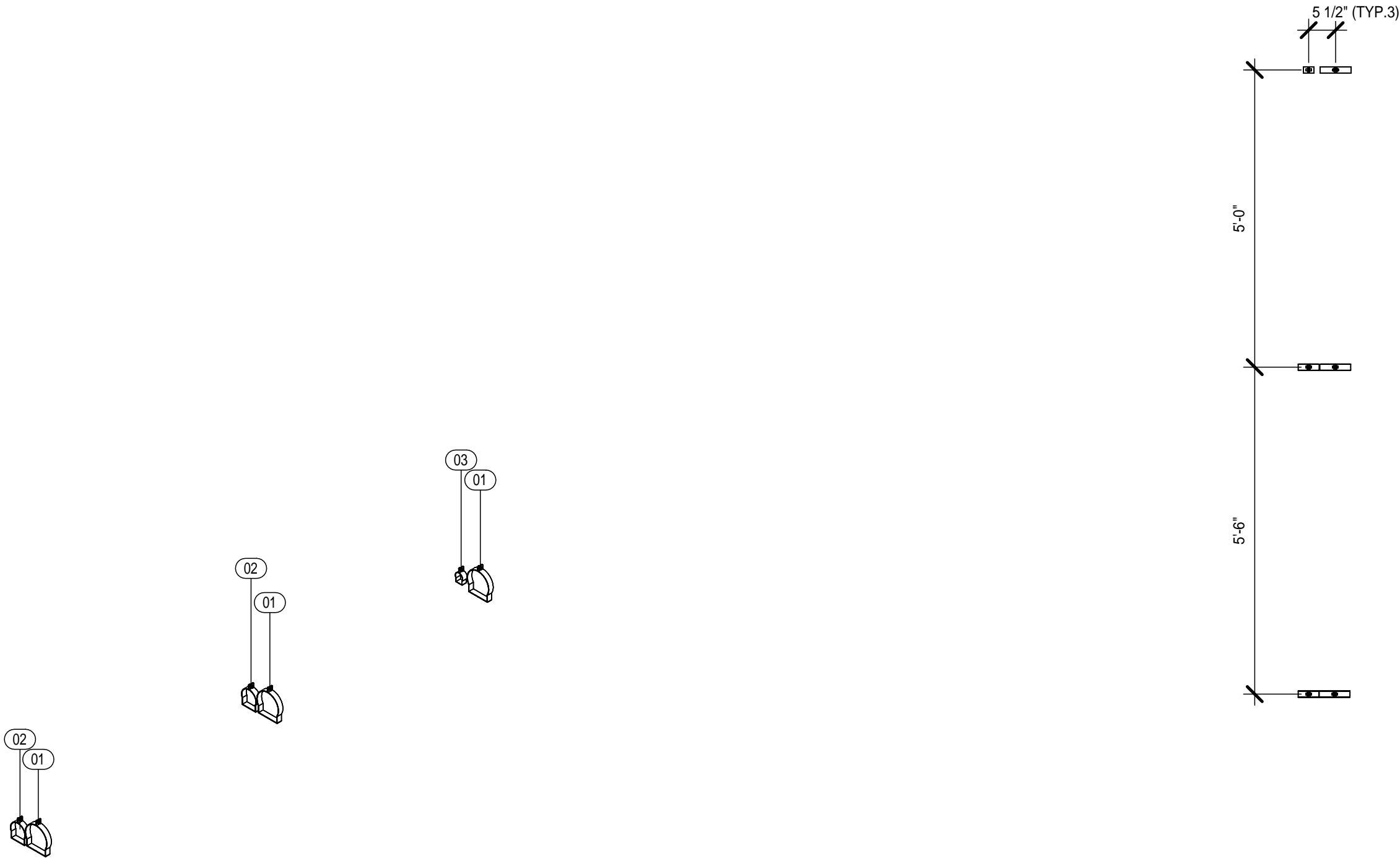
DATE: 11/24/21

DATE REQ:

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

BIM 360://WUSM NRBWUSM\_RB\_PLF.rvt  
24-11-2021 10:38:45 AM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	3	5.13"	B-Line B2000 Series - OD Pipe and Conduit		0"		0"	
02	2	3.63"	B-Line B2000 Series - OD Pipe and Conduit		0"		0"	
03	1	1.63"	B-Line B2000 Series - OD Pipe and Conduit		0"		0"	

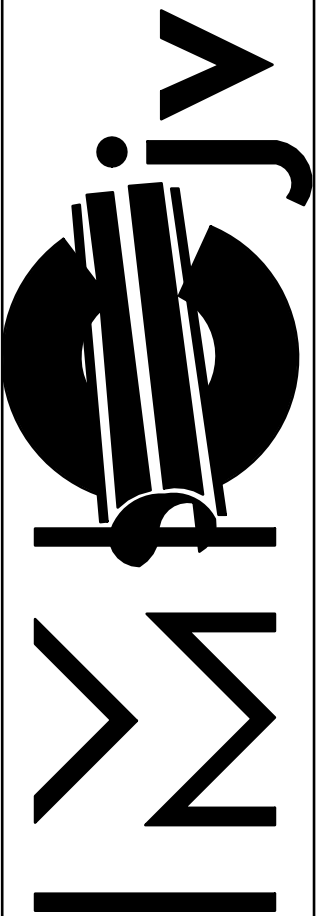


1 ISOMETRIC  
SCALE:

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

A1	A3	B1	B3
A2	A4	B2	B4

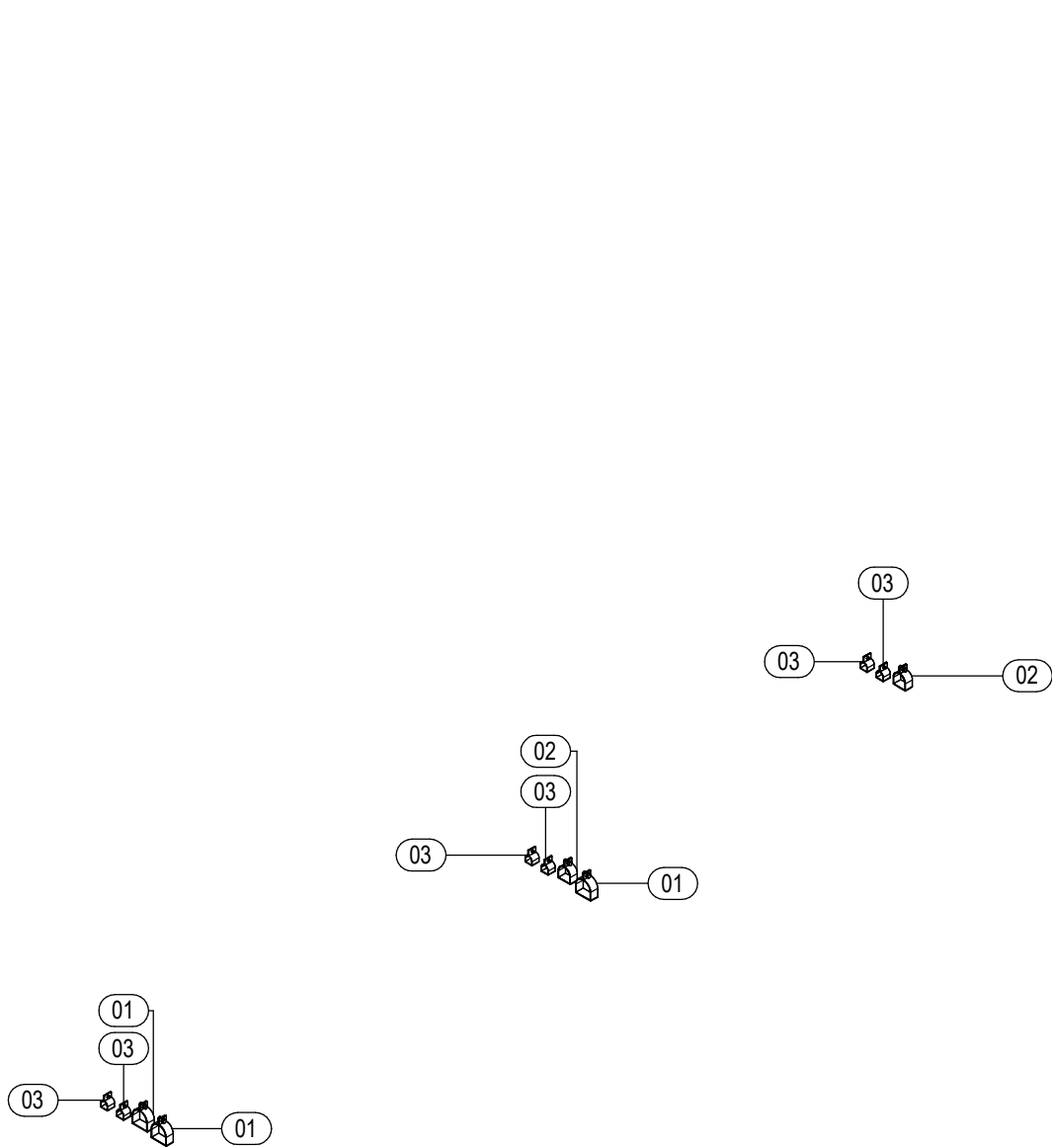
JOB:	WASH U NRB
TICKET:	PPHGR-L07-067
Drawn By: Author	
DATE: 11/24/21	DATE REQ:



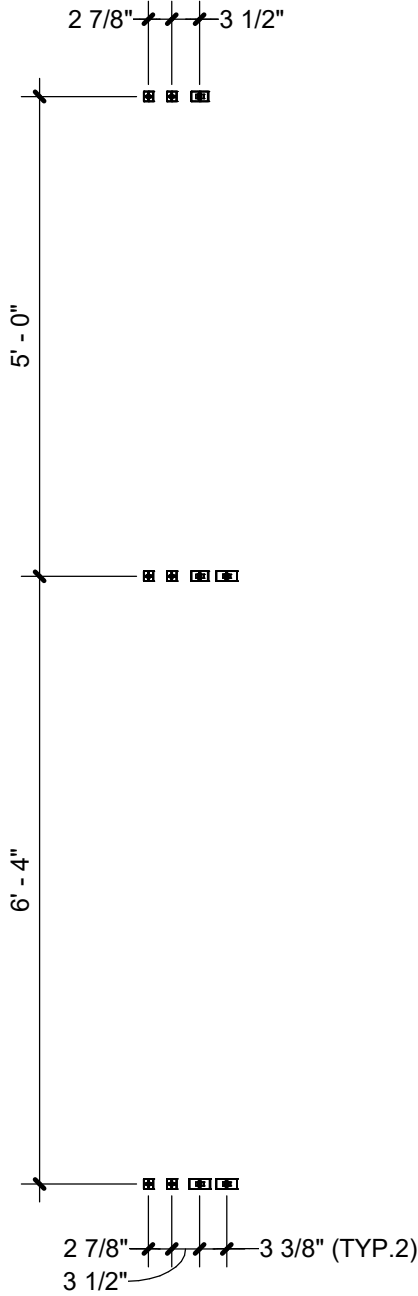
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
12/11/2021 9:29:28 AM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	3	2"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	
02	2	1.5"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	
03	6	0.75"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	



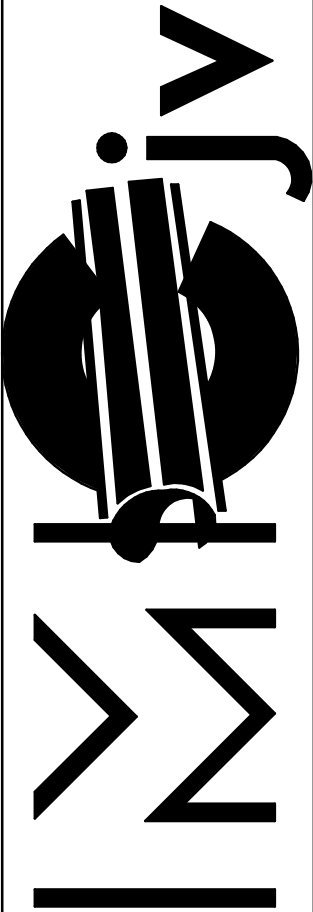
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

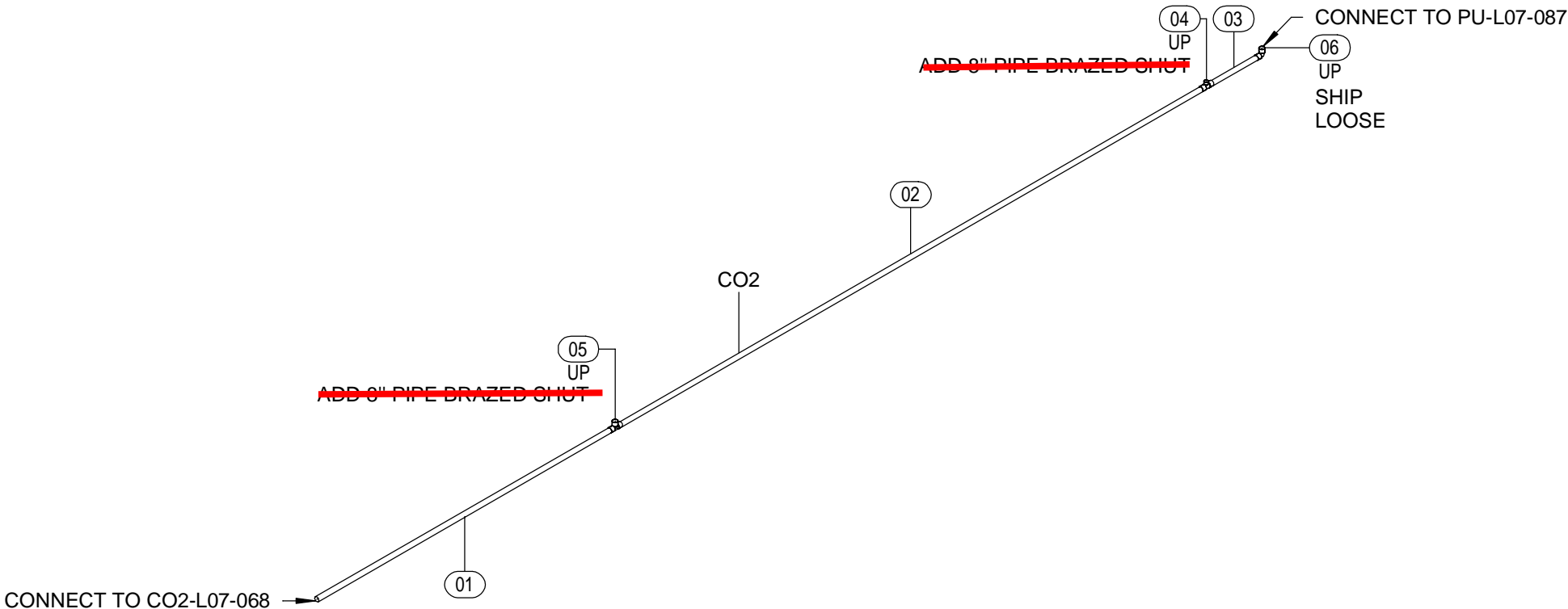
JOB:	WASH U NRB
TICKET:	PUHGR-L07-067
Drawn By: Author	
DATE: 11/24/21	DATE REQ:



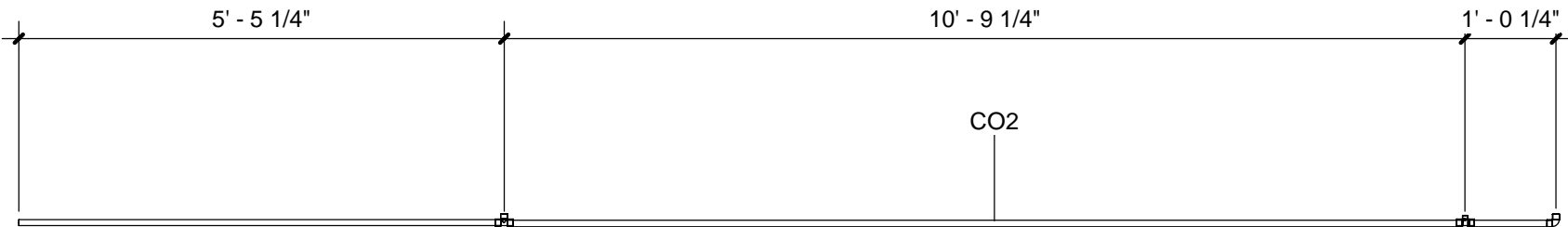
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
24-11-2021 18:13:28

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	5'-4 13/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	10'-8 7/16"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-11 5/16"				
04	1	3/4"x1/2"x3/4"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee					
05	1	3/4"	Nibco 611-CB CFOS Wrot Copper Tee					
06	1	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					



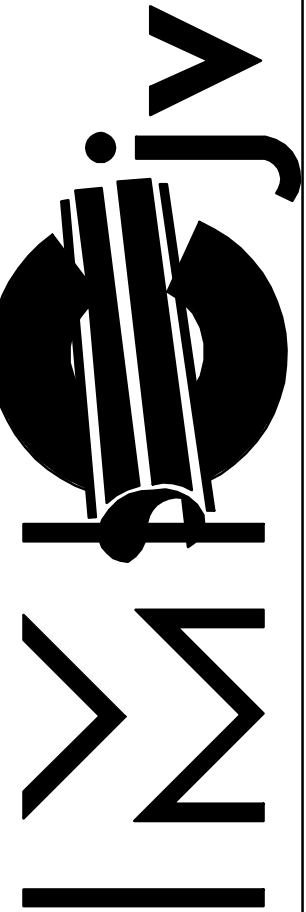
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

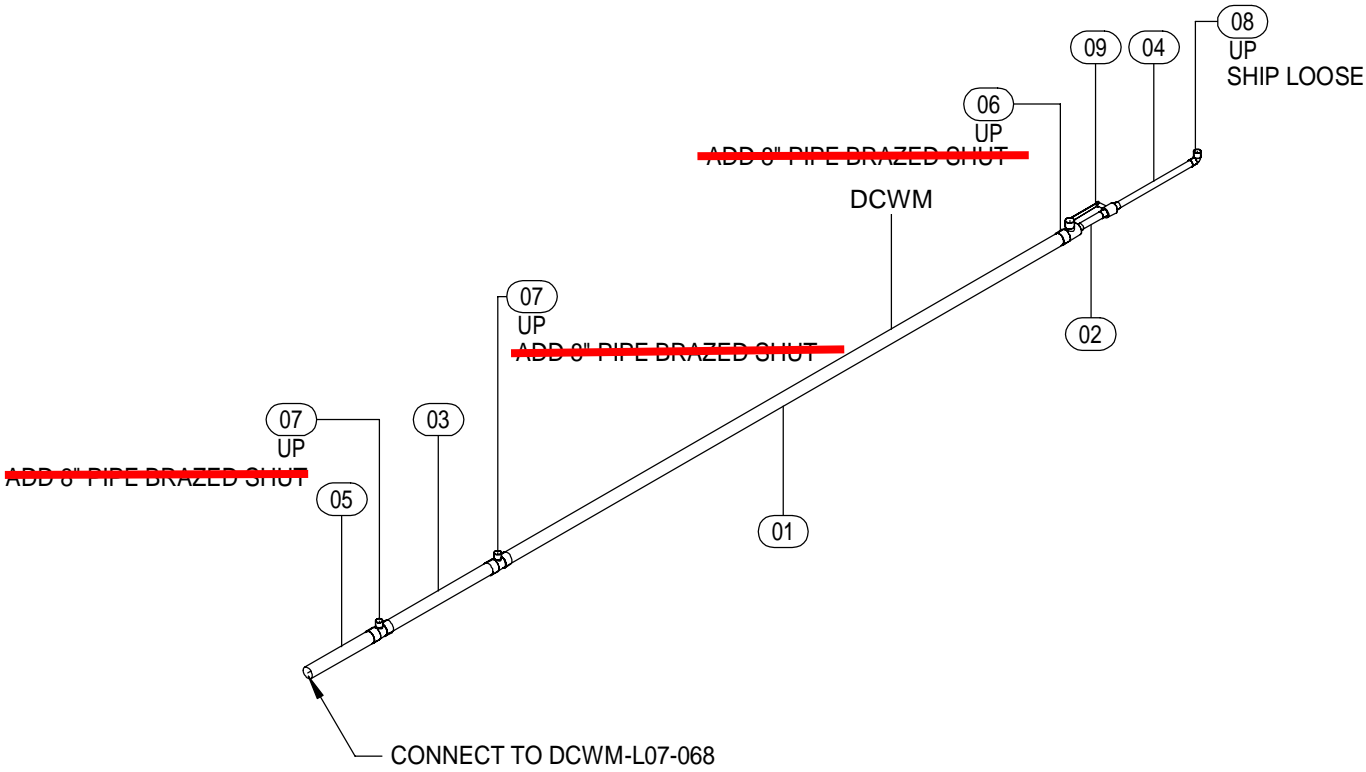
JOB:	WASH U NRB
TICKET:	CO2 -L07-067
Drawn By: Author	
DATE: 11/24/21	DATE REQ:



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

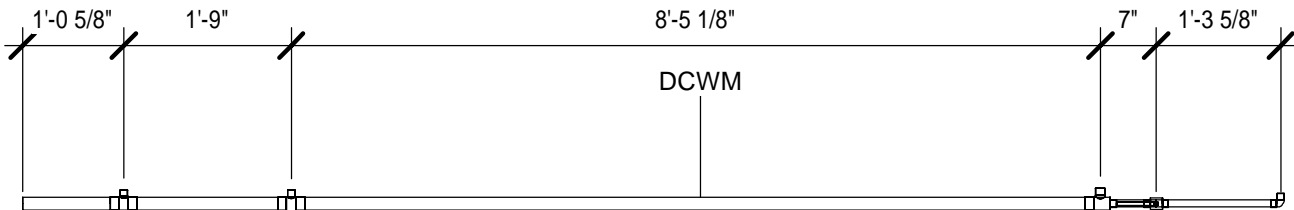
BIM 360://WUSM NRBWUSM\_RB\_PLF.rvt  
24-11-2021 15:54:33

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Cerro Type L Hard Copper Pipe	8'-3 13/16"				1"
02	1	3/4"	Cerro Type L Hard Copper Pipe	0'-5"				1/2"
03	1	1 1/2"	Cerro Type L Hard Copper Pipe	1'-7 3/4"				1"
04	1	3/4"	Cerro Type L Hard Copper Pipe	1'-2 5/16"				1/2"
05	1	1 1/2"	Cerro Type L Hard Copper Pipe	1'-0 1/16"				1"
06	1	1 1/2"x3/4"x1"	Nibco Wrot 611R CxCxC Reducing Tee					1"
07	2	1 1/2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1"
08	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1/2"
09	1	3/4"	Apollo 77CLF-140 LF-Brz 2pc FP SS-B&S Ball Valve Swt					1/2"



1 ISOMETRIC

SCALE:



2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

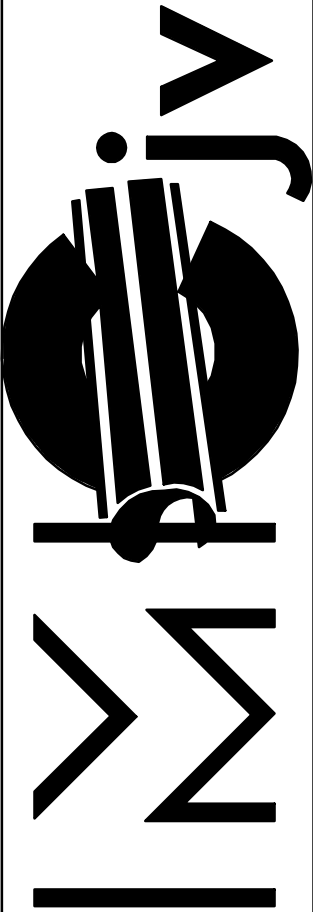
JOB: WASH U NRB

TICKET: DCWM-L07-067

Drawn By: Author

DATE: 11/23/21

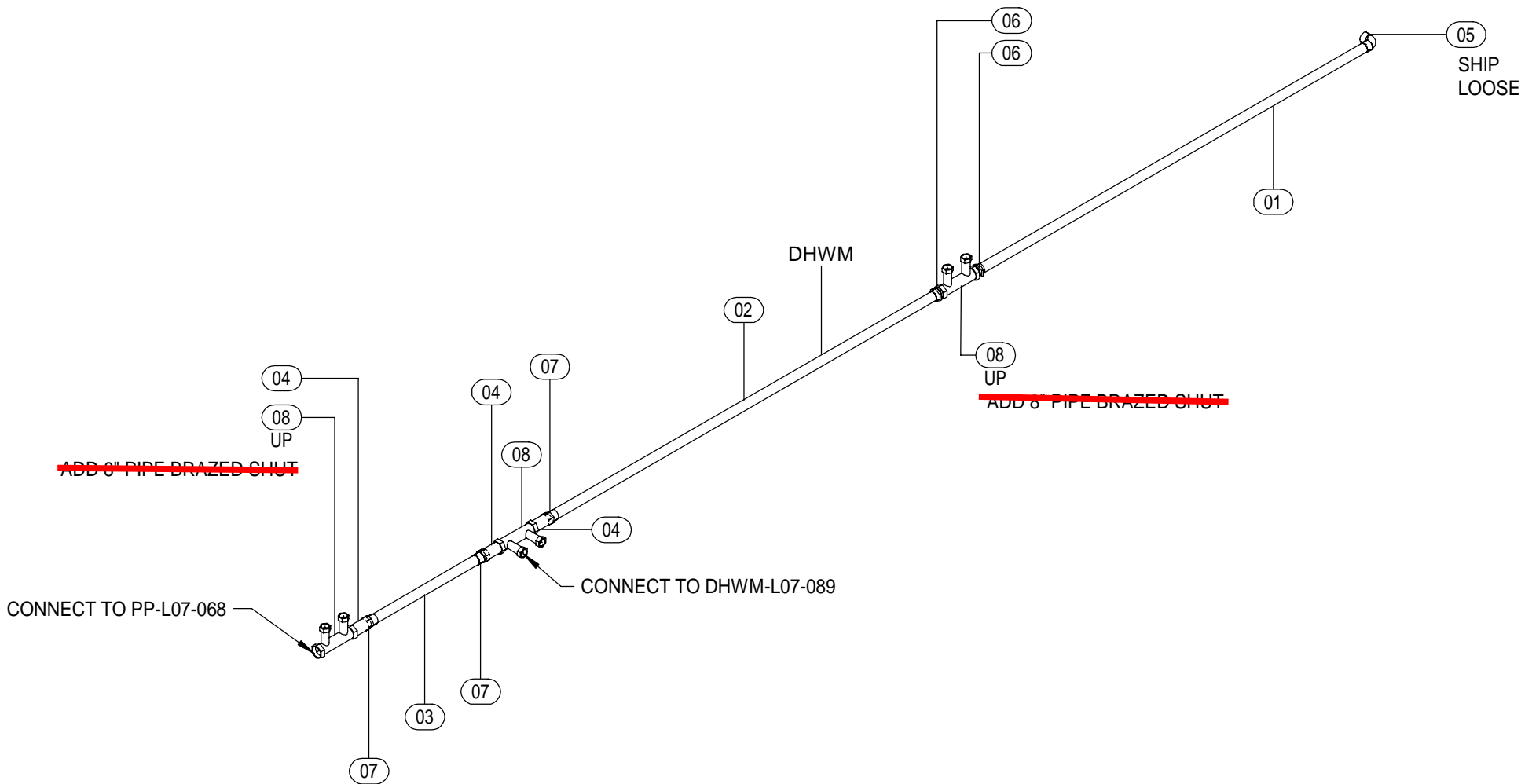
DATE REQ:



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

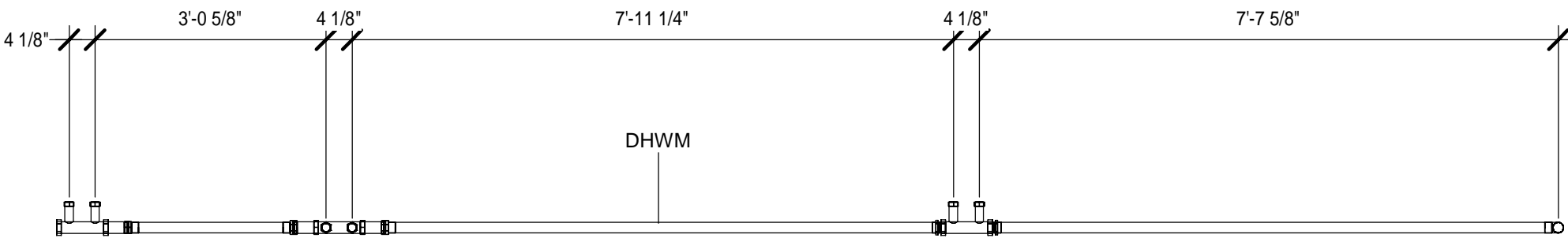
BIM 360://WUSM NRBWUSM\_RB\_PLF.rvt  
24-11-2021 16:15:39

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Cerro Type L Hard Copper Pipe	7'-4 5/16"				2"
02	1	1 1/2"	Cerro Type L Hard Copper Pipe	7'-3 1/4"				2"
03	1	1 1/2"	Cerro Type L Hard Copper Pipe	2'-1 1/16"				2"
04	3	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting					2"
05	1	1 1/2"	Nibco Wrot 607 90 Deg Ell CxC					2"
06	2	1 1/2"	Nibco Wrot 604 Adapter CxM					2"
07	3	1 1/2"	Nibco Wrot 603 Adapter CxF					2"
08	3	1 1/2"x1"	Kemper Kemper Fig651 20 KHS Flow-Splitter FPT					2"



1 ISOMETRIC

SCALE:



2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

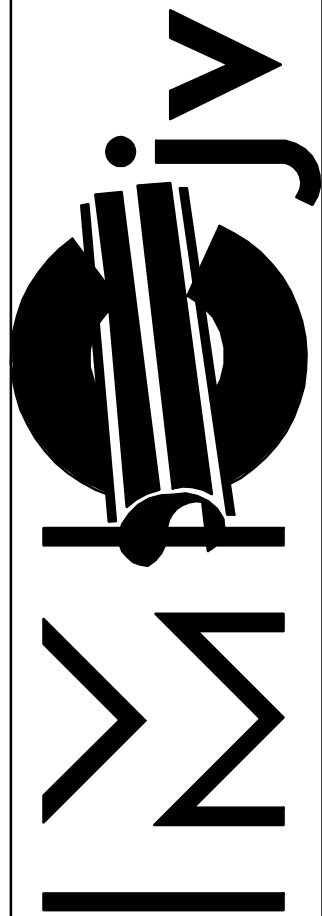
JOB: WASH U NRB

TICKET: DHWM-L07-067

Drawn By: Author

DATE: 11/24/21

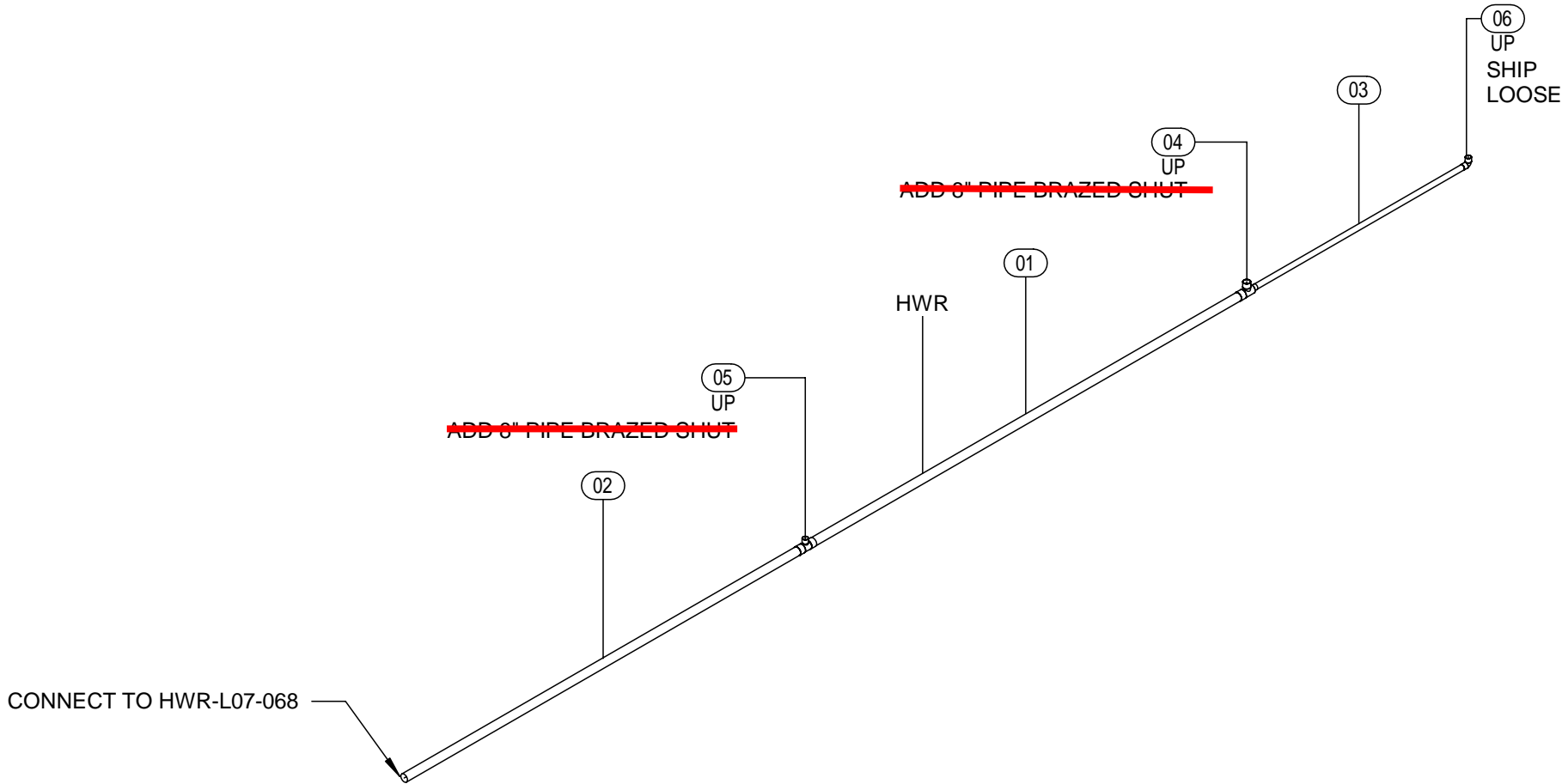
DATE REQ:



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

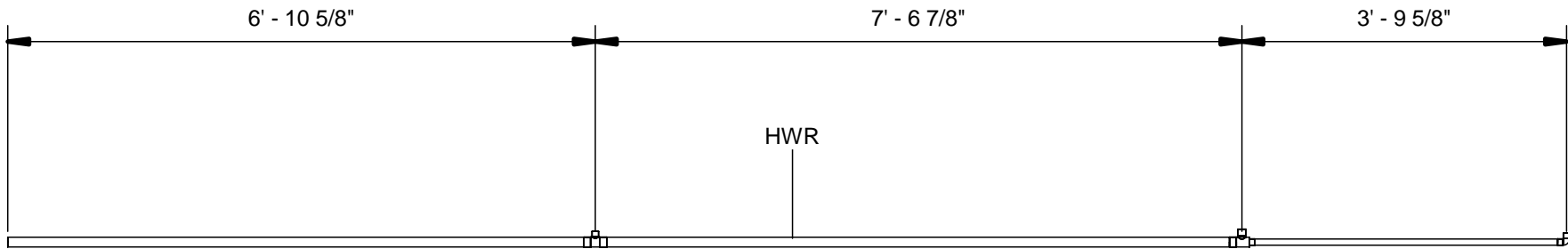
BIM 360/WUSM NRBWUSM\_RB\_HPE.rvt  
24-11-2021 18:16:02

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation	
01	1	1 1/4"	Cerro Type K Hard Copper Pipe	7'-5 7/16"				1"	
02	1	1 1/4"	Cerro Type K Hard Copper Pipe	6'-9 15/16"				1"	
03	1	3/4"	Cerro Type K Hard Copper Pipe	3'-8 1/16"				1"	
04	1	1 1/4"x3/4"x1"	Nibco Wrot 611R CxCxC Reducing Tee					1"	
05	1	1 1/4"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1"	
06	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"	



1 ISOMETRIC

SCALE:



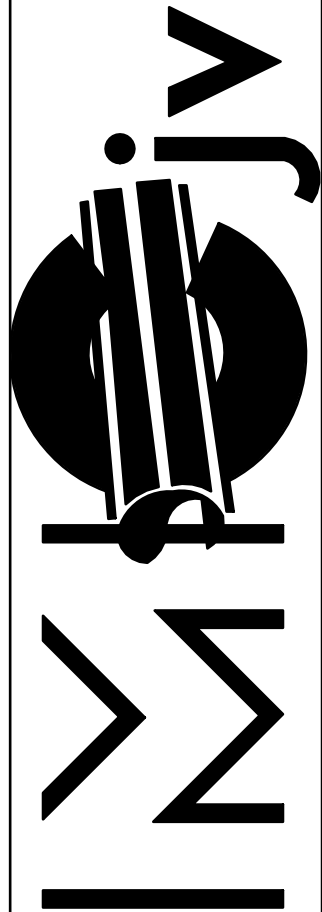
2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB  
TICKET: HWR-L07-067  
Drawn By: Author  
DATE: 11/24/21

DATE REQ:

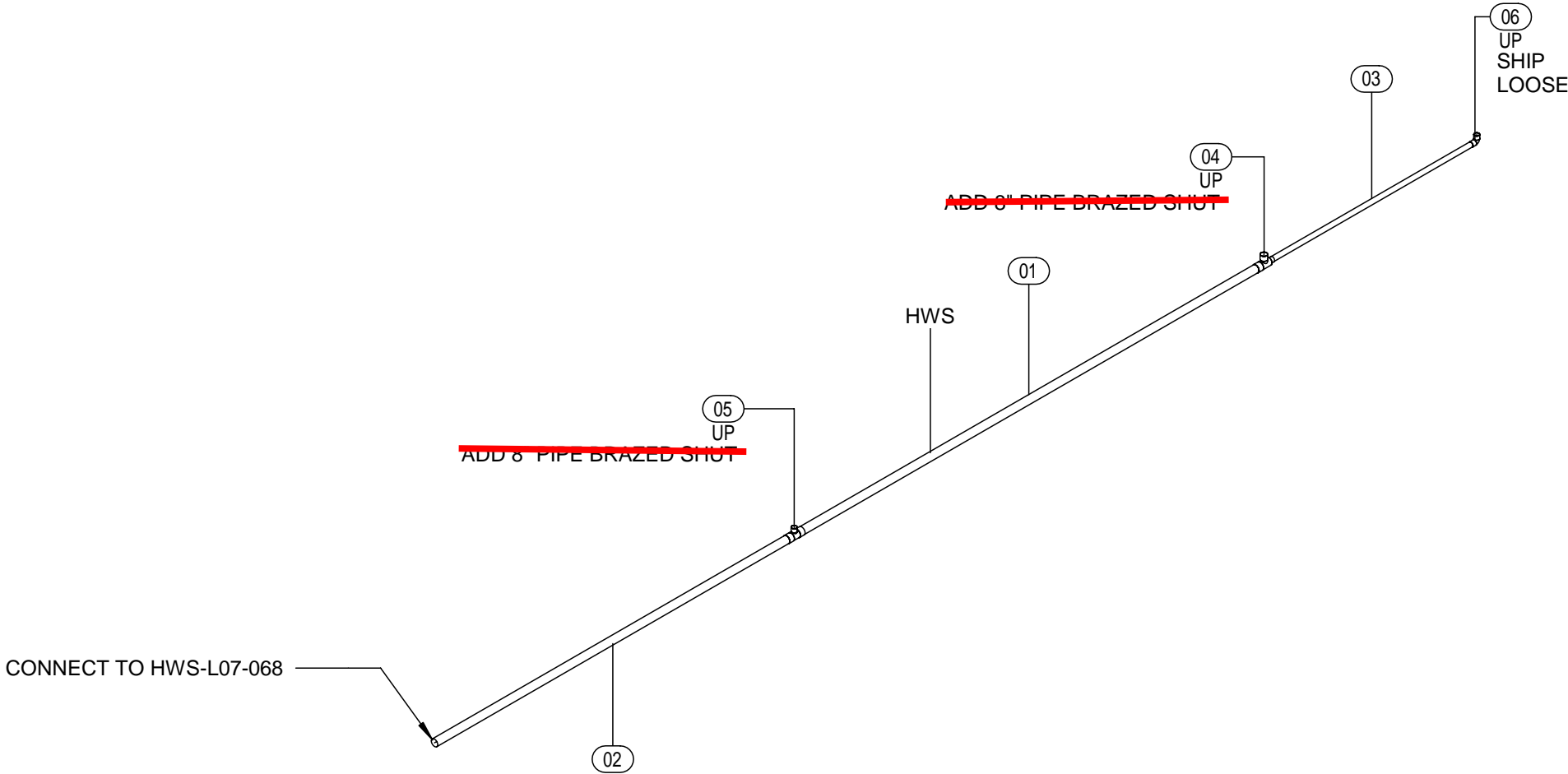


1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone



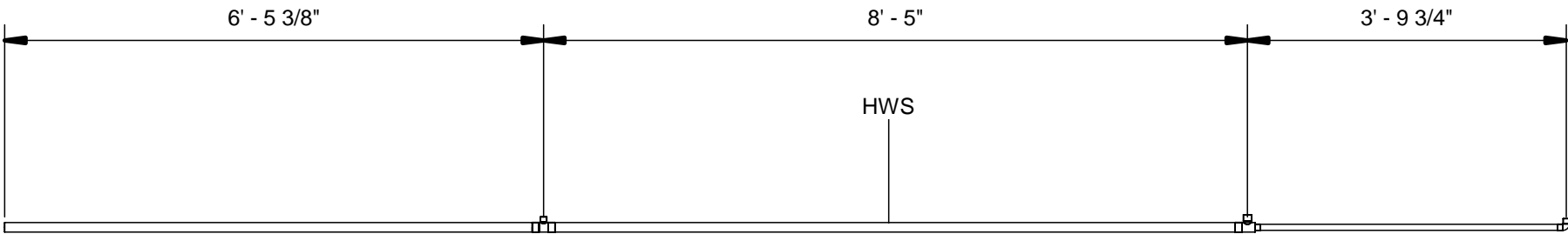
BIM 360//WUSM NRBWUSM\_RB\_HPE.rvt  
24-11-2021 17:58:09

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/4"	Cerro Type K Hard Copper Pipe	8'-3 9/16"				1"
02	1	1 1/4"	Cerro Type K Hard Copper Pipe	6'-4 11/16"				1"
03	1	3/4"	Cerro Type K Hard Copper Pipe	3'-8 3/16"				1"
04	1	1 1/4"x3/4"x1"	Nibco Wrot 611R CxCxC Reducing Tee					1"
05	1	1 1/4"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1"
06	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"



1 ISOMETRIC

SCALE:

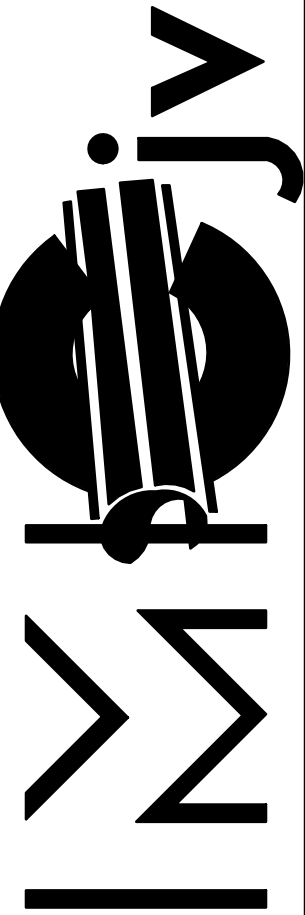


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

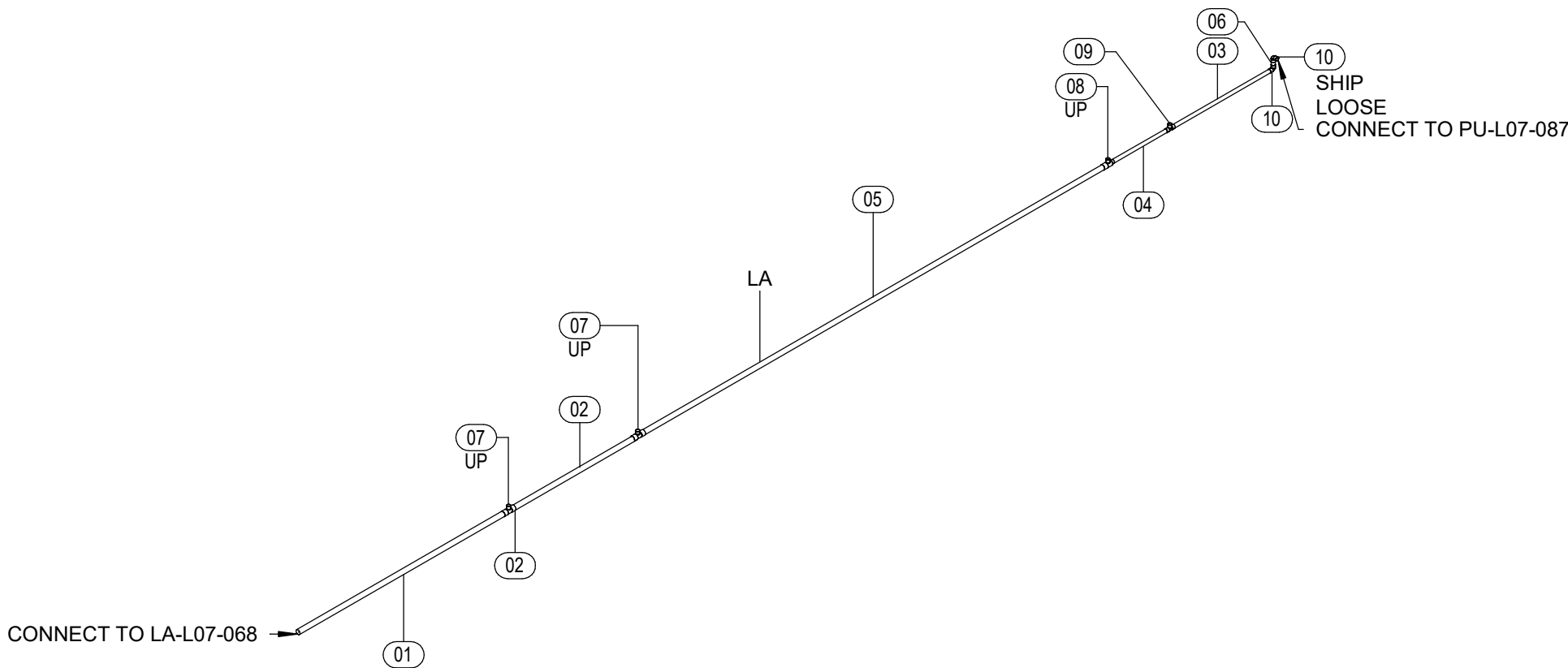
JOB:	WASH U NRB
TICKET:	HWS-L07-067
Drawn By: Author	
DATE: 11/24/21	DATE REQ:



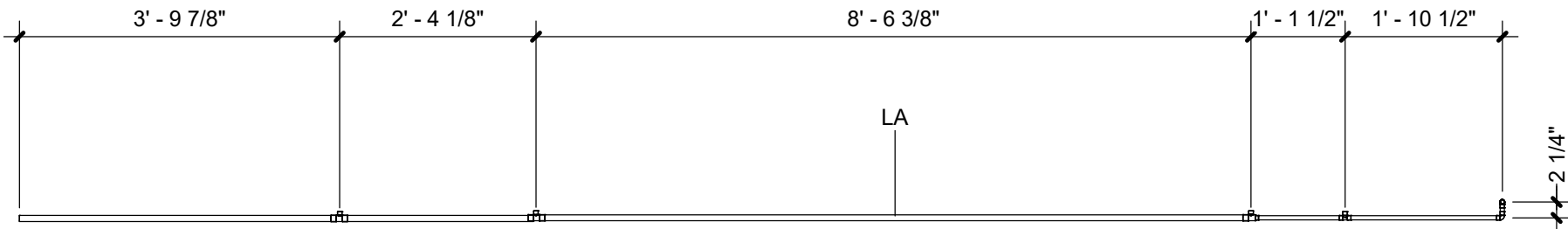
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM RB\_PUF.rvt  
2/9/2022 10:32:21 AM

Mark	Qty	Size	Description	Length	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	3'-9 3/8"	
02	1	3/4"	Cerro Type L Hard Copper - CFOS	2'-3 3/8"	
03	1	1/2"	Cerro Type L Hard Copper - CFOS	1'-9 7/8"	
04	1	1/2"	Cerro Type L Hard Copper - CFOS	1'-0 1/2"	
05	1	3/4"	Cerro Type L Hard Copper - CFOS	8'-5 1/2"	
06	1	1/2"	Cerro Type L Hard Copper - CFOS	0'-1 5/8"	
07	2	3/4"x1/2"x3/4"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
08	1	3/4"x1/2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
09	1	1/2"	Nibco 611-CB CFOS Wrot Copper Tee		
10	2	1/2"	Nibco 607-CB CFOS Wrot 90 Elbow		



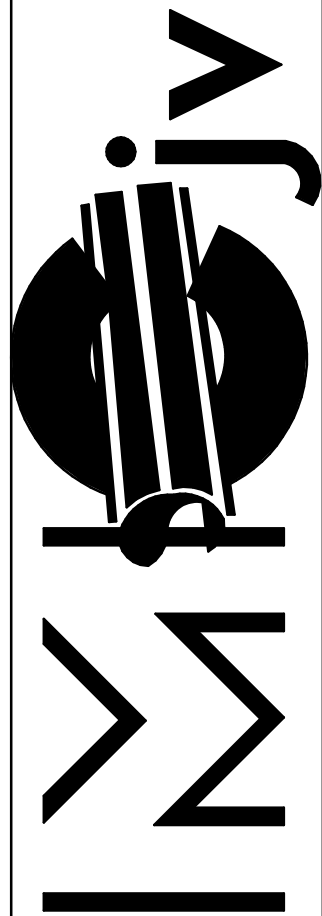
1 ISOMETRIC  
SCALE:



2 RIGHT ELEVATION  
SCALE: 1/2\"/>

A1	A3	B1	B3
A2	A4	B2	B4

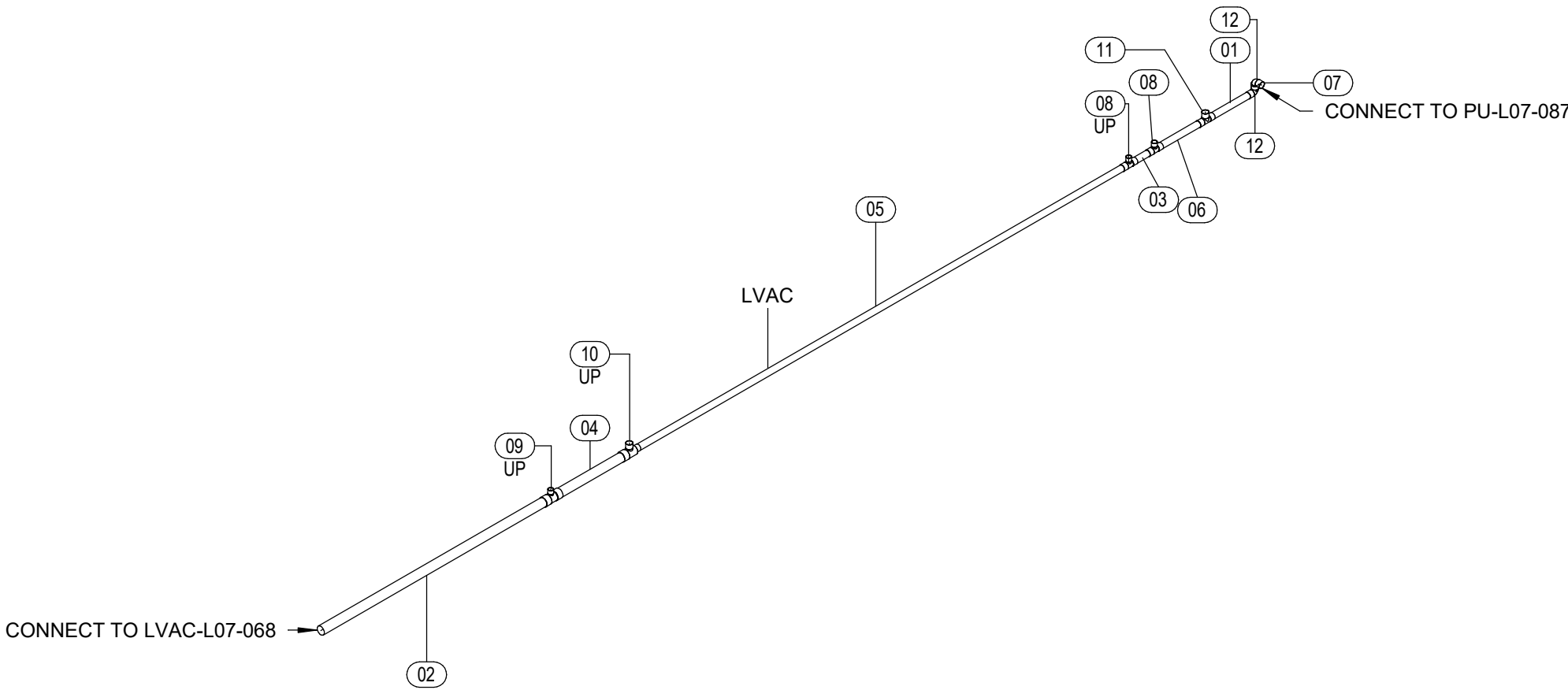
JOB: WASH U NRB  
TICKET: LA -L07-067  
Drawn By: Author  
DATE: 11/24/21  
DATE REQ:



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

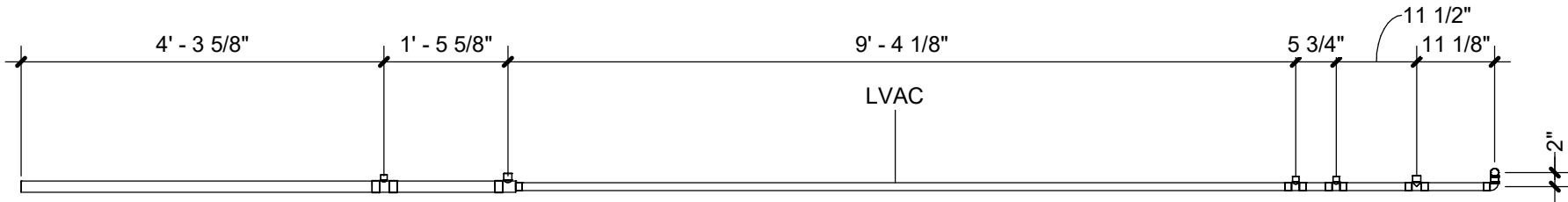
BIM 360://WUSM NRBWUSM RB\_PUF.rvt  
2/9/2022 10:32:24 AM

Mark	Qty	Size	Description	Length	Insulation
01	1	1"	Cerro Type L Hard Copper - CFOS	0'-9 3/4"	
02	1	1 1/2"	Cerro Type L Hard Copper - CFOS	4'-3"	
03	1	1"	Cerro Type L Hard Copper - CFOS	0'-4 5/8"	
04	1	1 1/2"	Cerro Type L Hard Copper - CFOS	1'-4 1/8"	
05	1	1"	Cerro Type L Hard Copper - CFOS	9'-2 3/8"	
06	1	1"	Cerro Type L Hard Copper - CFOS	0'-10 1/4"	
07	1	1"	Cerro Type L Hard Copper - CFOS	5/8"	
08	2	1"x3/4"x1"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
09	1	1 1/2"x3/4"x1 1/2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
10	1	1 1/2"x1"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
11	1	1"	Nibco 611-CB CFOS Wrot Copper Tee		
12	2	1"	Nibco 607-CB CFOS Wrot 90 Elbow		



1 ISOMETRIC

SCALE:

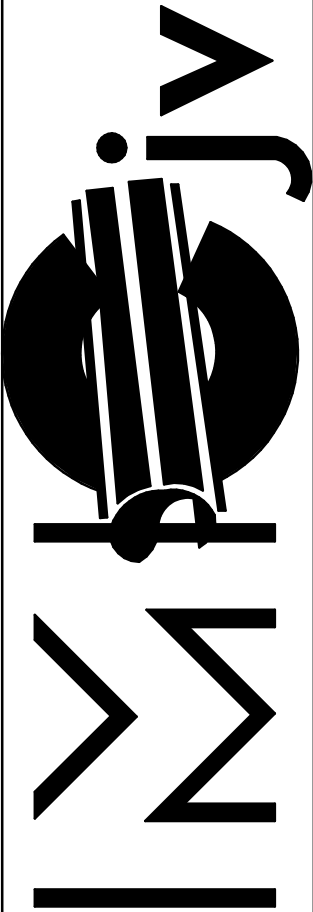


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

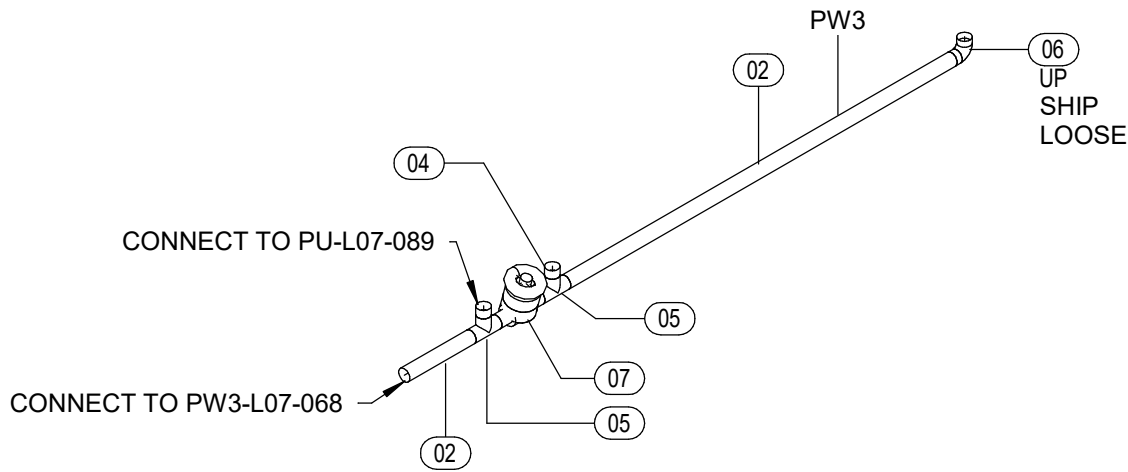
JOB: WASH U NRB	TICKET: LVAC -L07-067	Drawn By: Author	DATE REQ: 11/24/21
-----------------	-----------------------	------------------	--------------------



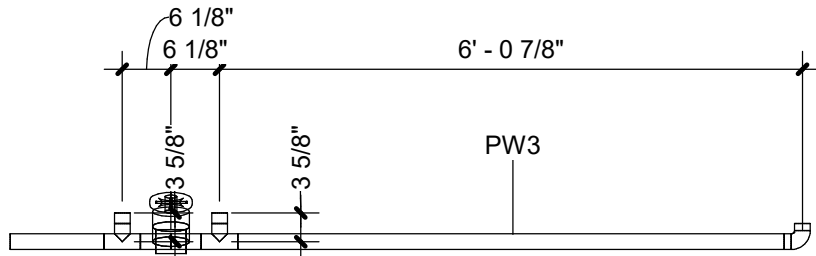
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
12/11/2021 9:28:23 AM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Pipe	0'-7 5/8"				
02	1	1 1/2"	Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Pipe	5'-8 5/16"				
03	1	1 1/2"	Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Pipe	0'-4 1/8"				
04	2	1 1/2"	Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Pipe	0'-1 5/16"				
05	2	1 1/2"	Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Tee					
06	1	1 1/2"	Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion 90 SR Elbow					
07	1	1 1/2"	George Fischer Sloane PROGEF STD-PP Type 515 EDPM Diaphragm Valve BF					



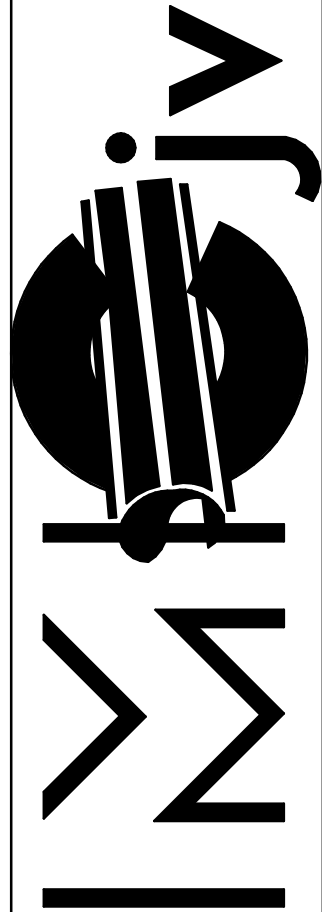
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	PW3 -L07-067
Drawn By: Author	
DATE: 11/24/21	DATE REQ:



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