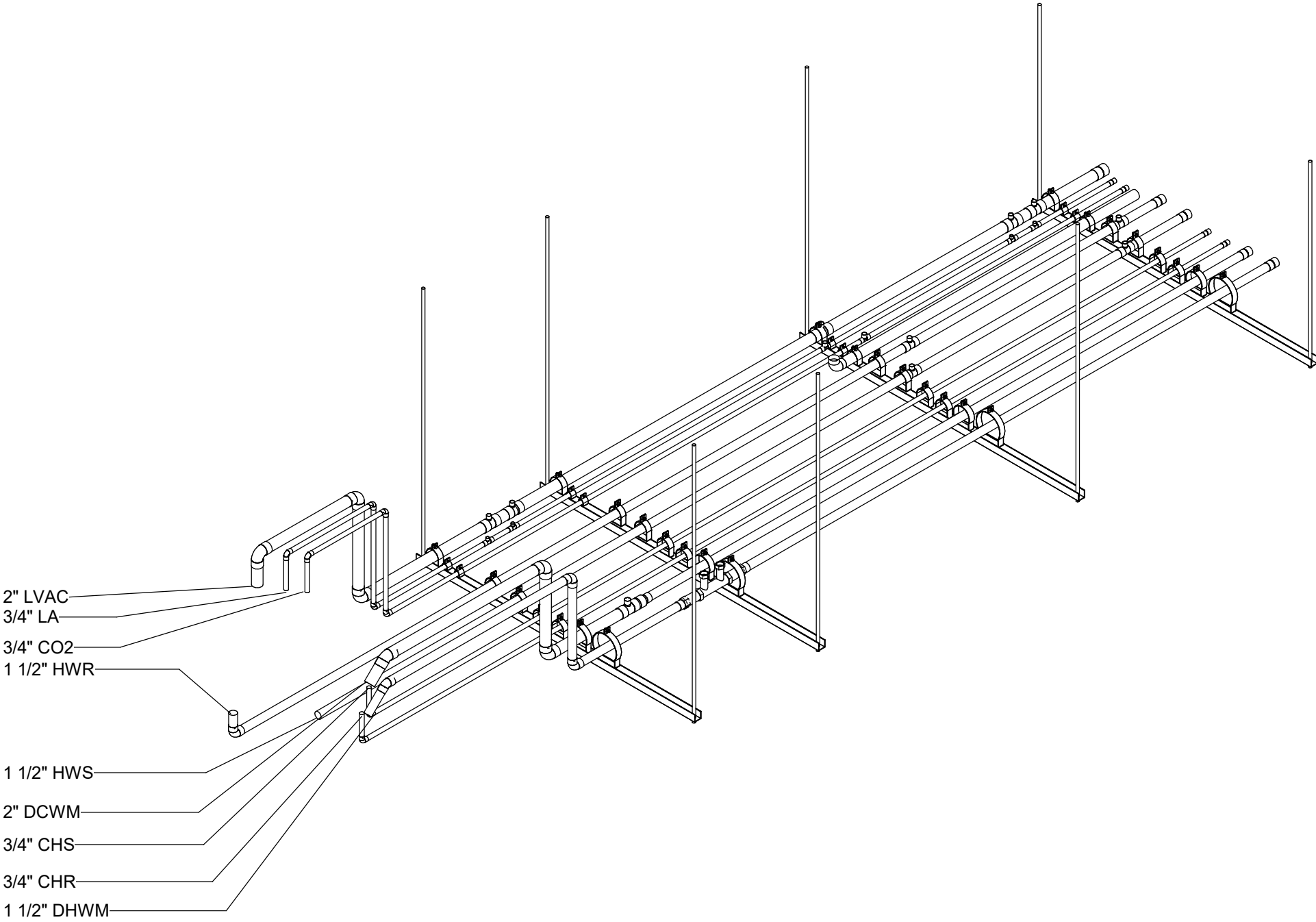
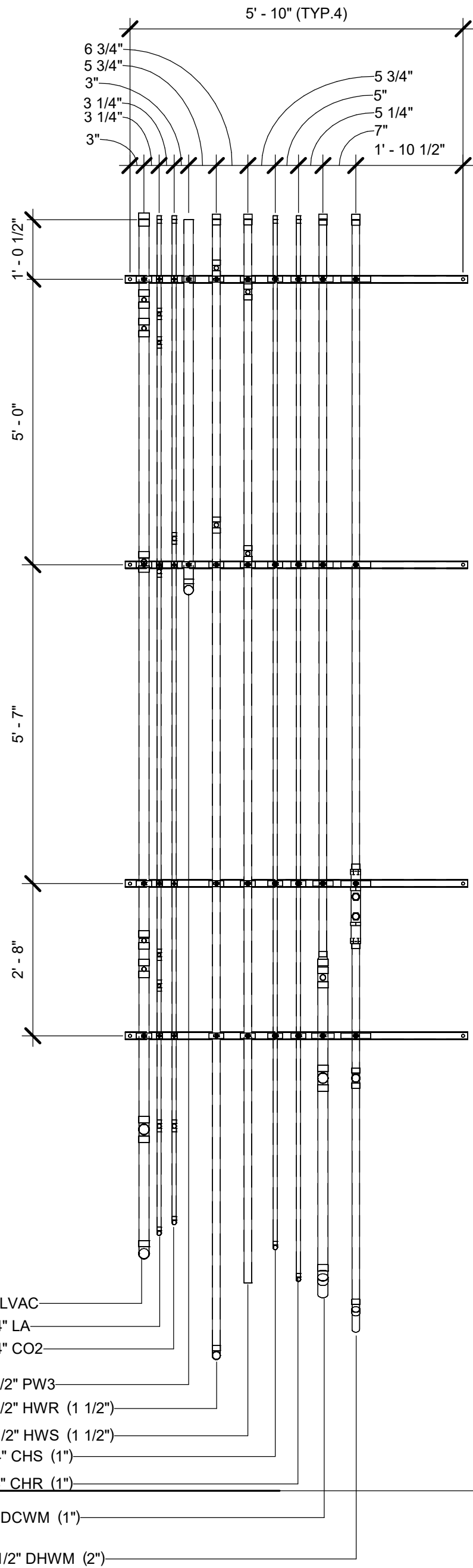


BIM 360//WUSM NRBWUSM\_RB\_SPOOLING MASTER.rvt  
12/16/2021 2:50:12 PM



1 **AS-L07-063 - ISOMETRIC**  
AS-L07-063 SCALE:

2 **AS-L07-063**  
AS-L07-063 SCALE: 1/2" = 1'-0"



A1	A3	B1	B3
A2	A4	B2	B4



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

JOB: **WASH U NRB**

TICKET: **AS-L07-063**

Drawn By: Author

DATE: 11/23/21

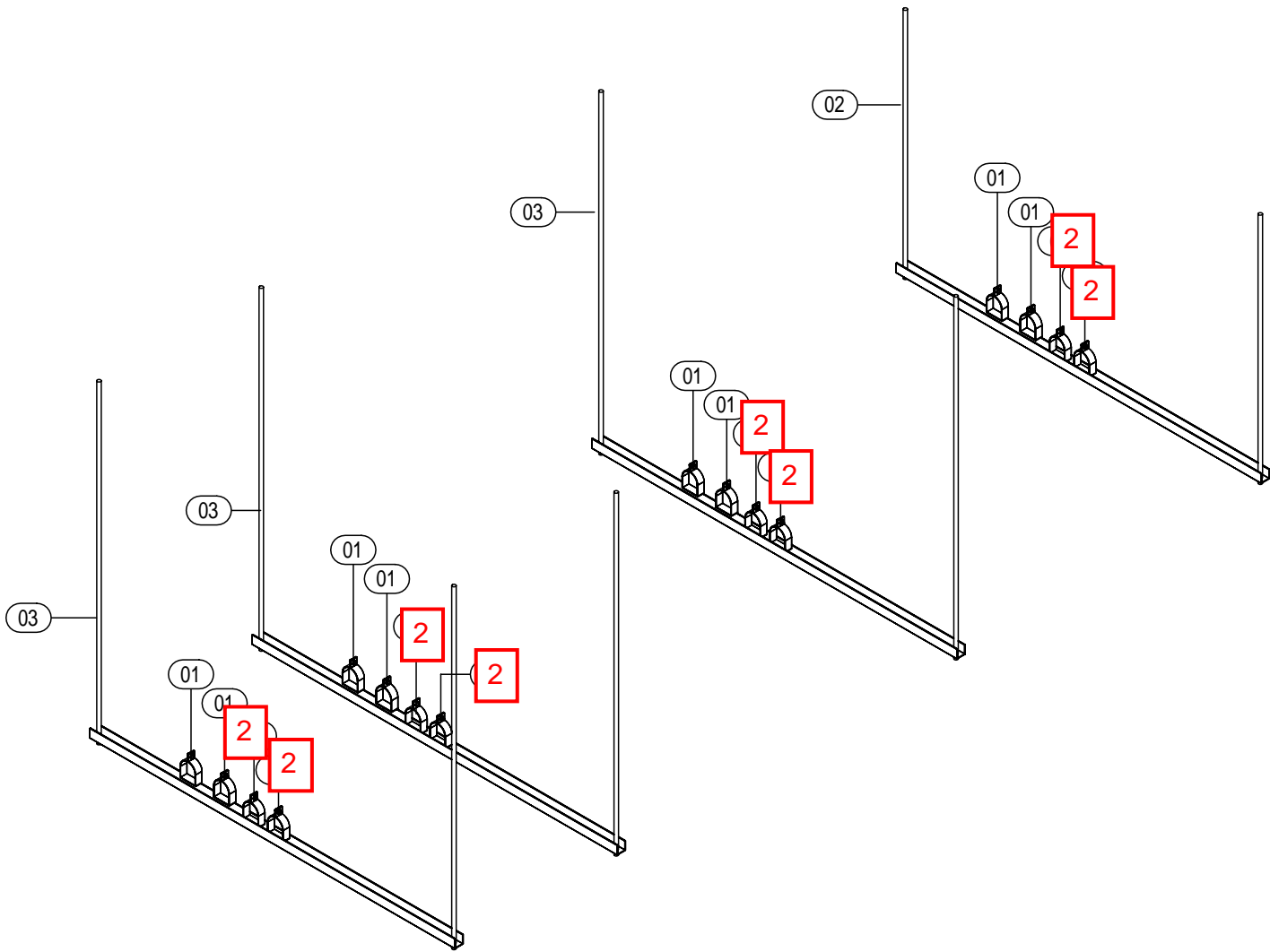
DATE REQ:

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23-11-2021 12:40:54

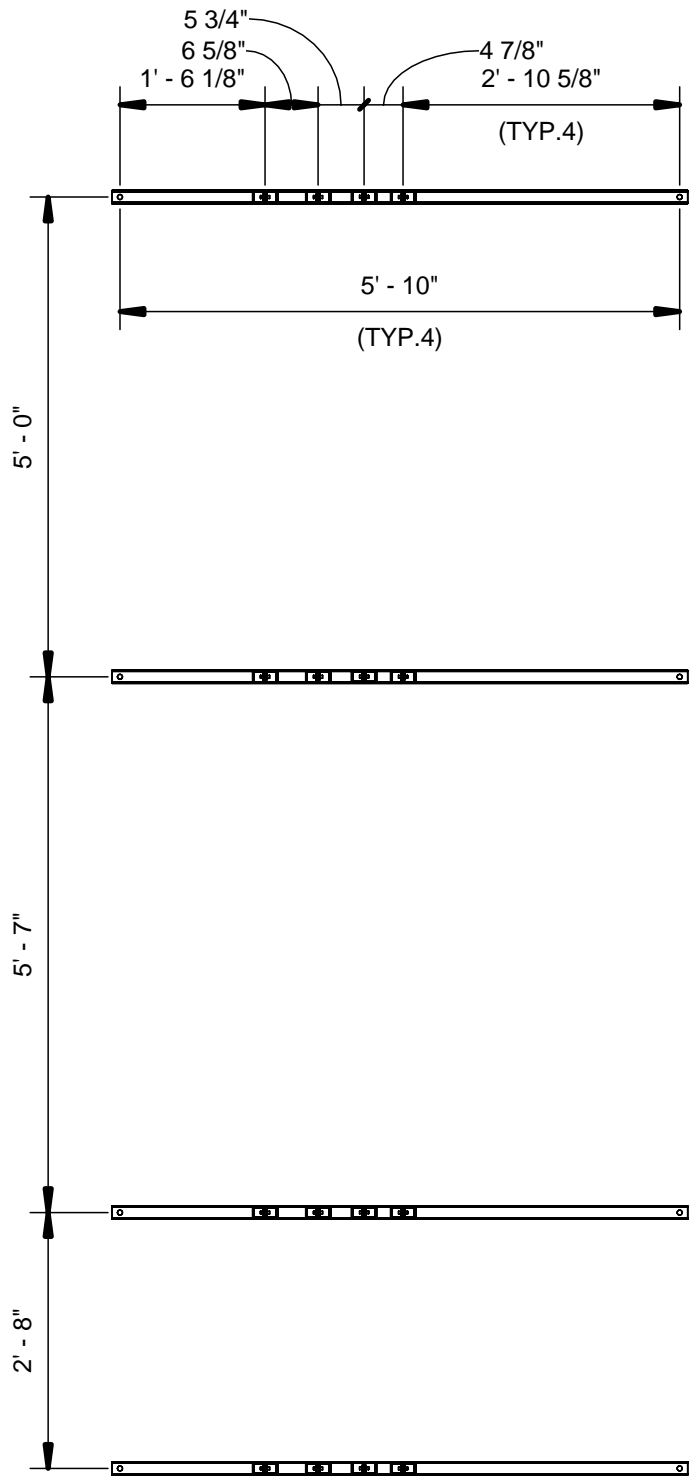
Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	<del>16</del>	<del>2.5"</del>	<del>B-Line B2000 ZN Sch 40 Pipe Clamp</del>		0"		0"	
02	1	<del>68"</del>	<del>B-Line 1-5/8 GLV 12GA 2in Slotted Unistrut</del>		6' - 0"	3' - 10"	3' - 10"	
03	3	68"	B-Line 1-5/8 GLV 12GA 2in Slotted Unistrut		6' - 0"	5' - 2"	5' - 2"	

01 8 5 5/8" B Line #2066

02 6 2 7/8" B Line #2014



1 ISOMETRIC  
SCALE:



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

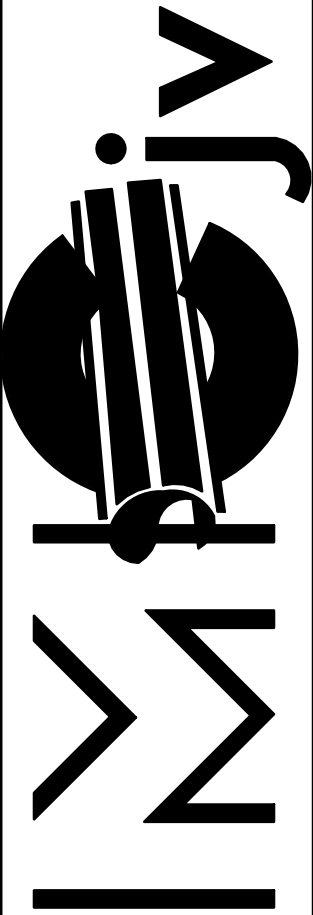
A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB

TICKET: HPHGR-L07-063

Drawn By: Author

DATE: 11/23/21 DATE REQ:

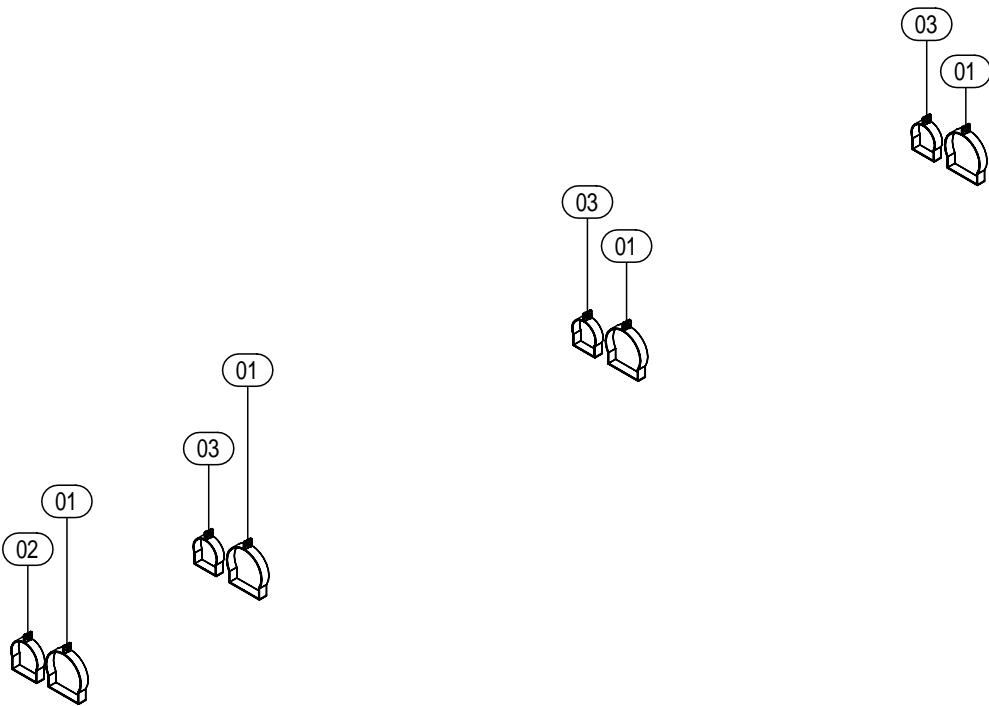


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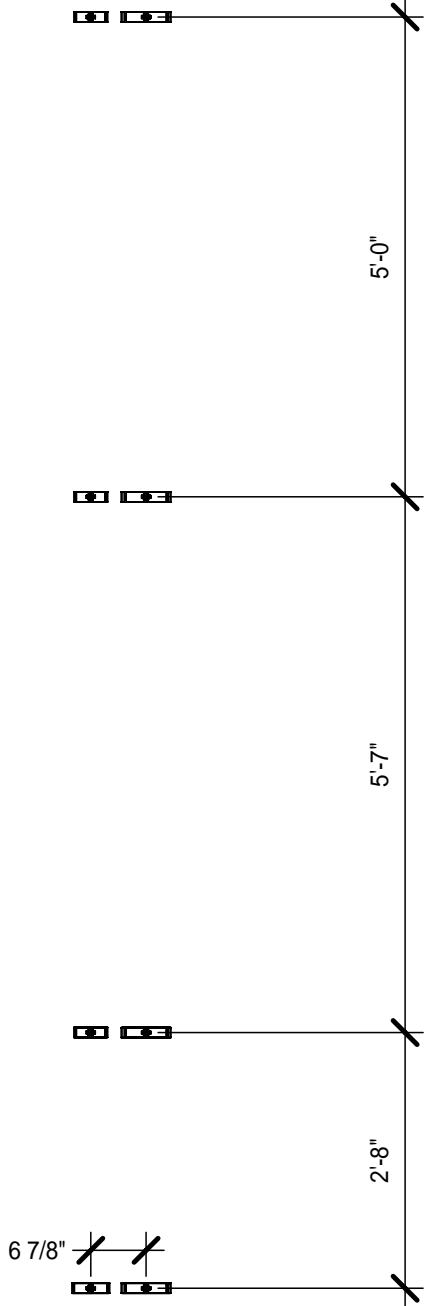
BIM 360://WUSM NRBWUSM\_RB\_PLF.rvt  
23-11-2021 05:29:56 PM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	4	5.13"	<del>B-Line B2000 Series - OD Pipe and Conduit</del>		0"		0"	
02	1	4.13"	<del>B-Line B2000 Series - OD Pipe and Conduit</del>		0"		0"	
03	3	3.63"	<del>B-Line B2000 Series - OD Pipe and Conduit</del>		0"		0"	

01	4	5 5/8"	B Line #2066
02	1	3 1/8"	B Line #2046
03	3	3 5/8"	B Line #2050



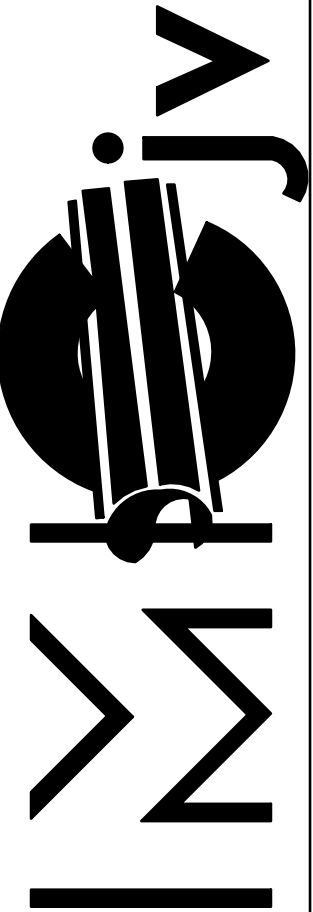
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

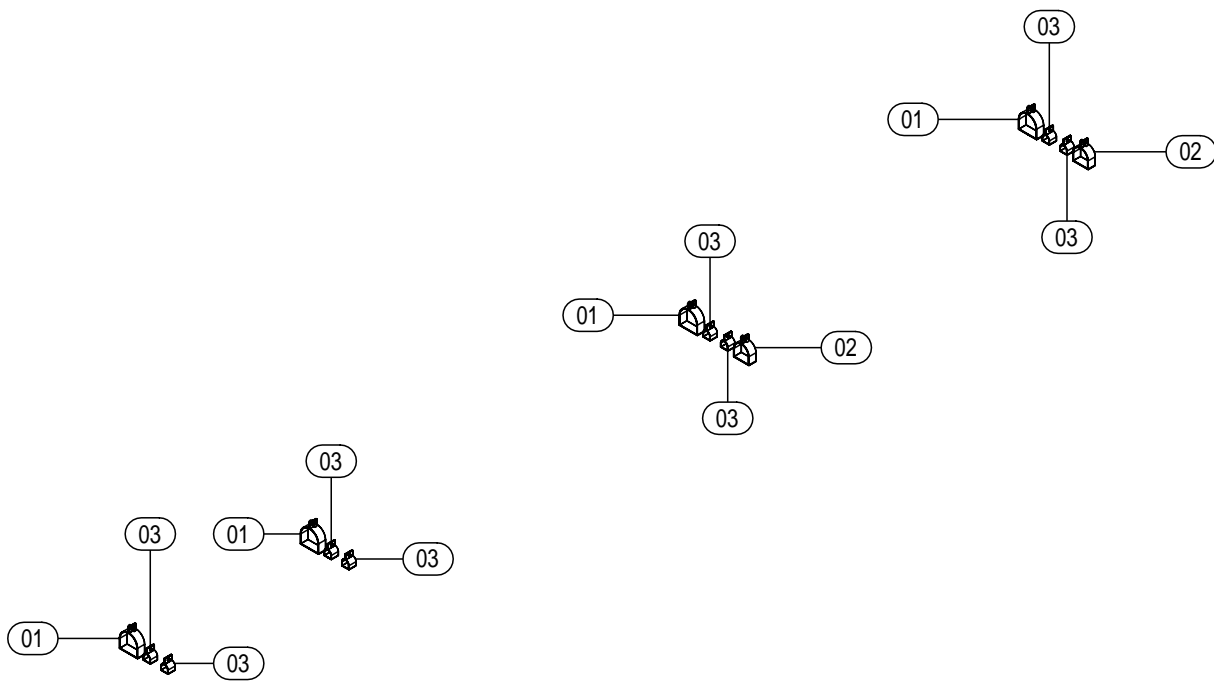
JOB: WASH U NRB
TICKET: PPHGR-L07-063
Drawn By: Author
DATE: 11/23/21
DATE REQ:



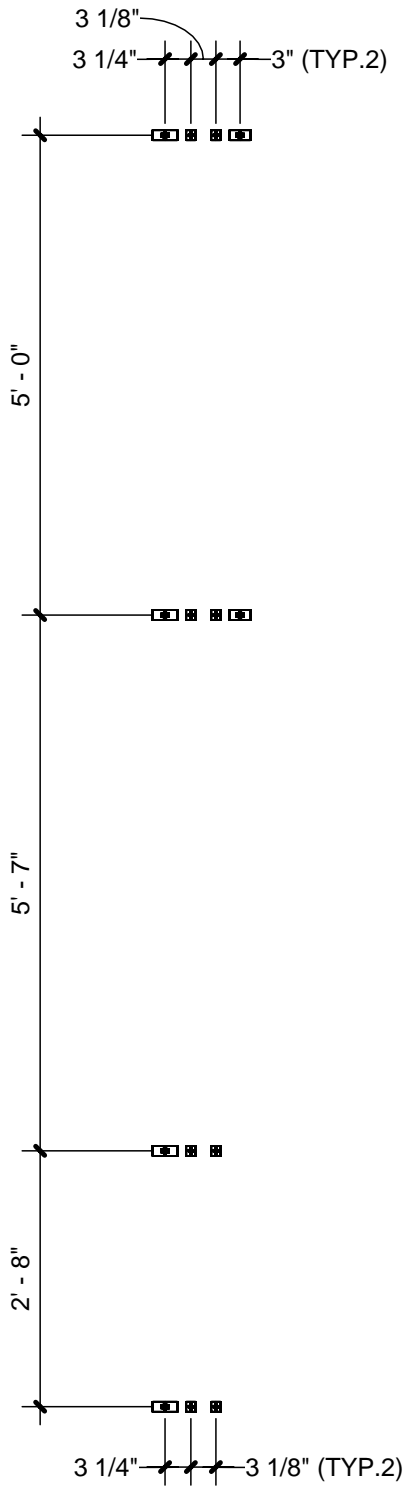
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:14:28

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	4	2.5"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	
02	2	2"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	
03	8	0.75"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"		0"	



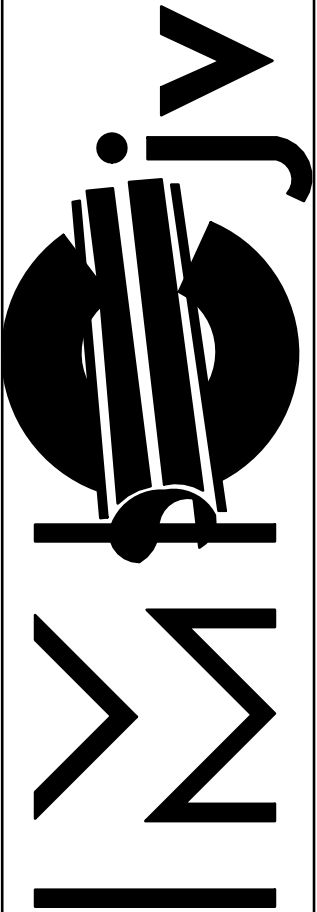
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

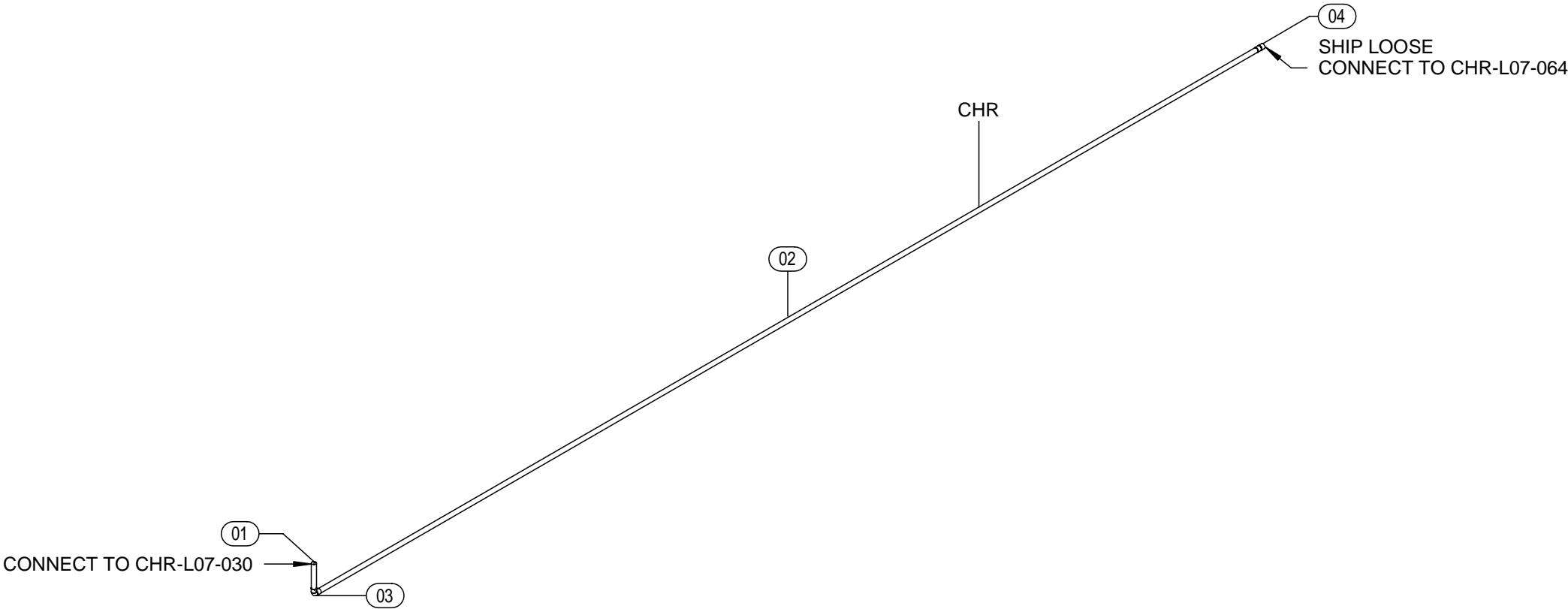
JOB:	WASH U NRB
TICKET:	PUHGR-L07-063
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



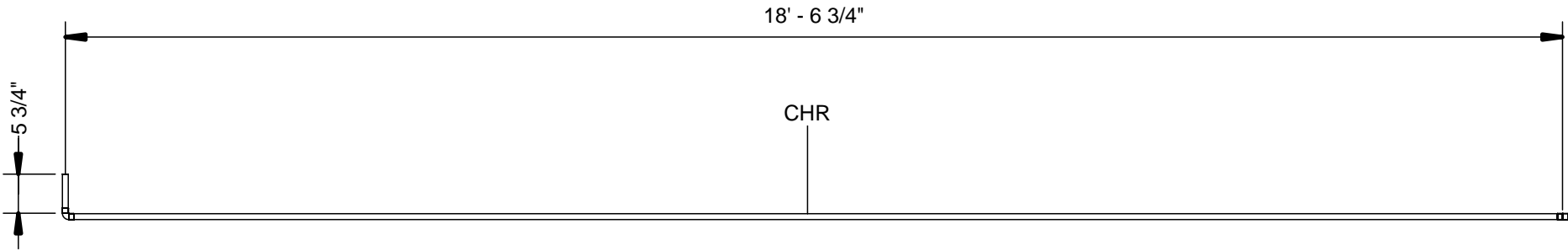
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360/WUSM NRBWUSM\_RB\_HPE.rvt  
23-11-2021 12:40:23

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type K Hard Copper Pipe	0'-5 13/16"				1"
02	1	3/4"	Cerro Type K Hard Copper Pipe	18'-6 3/16"				1"
03	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"
04	1	3/4"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1"



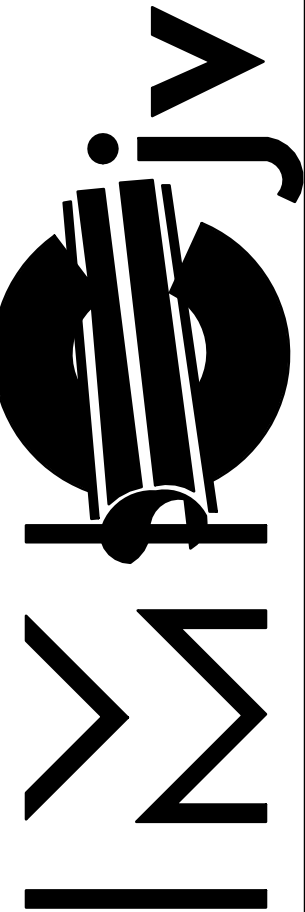
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

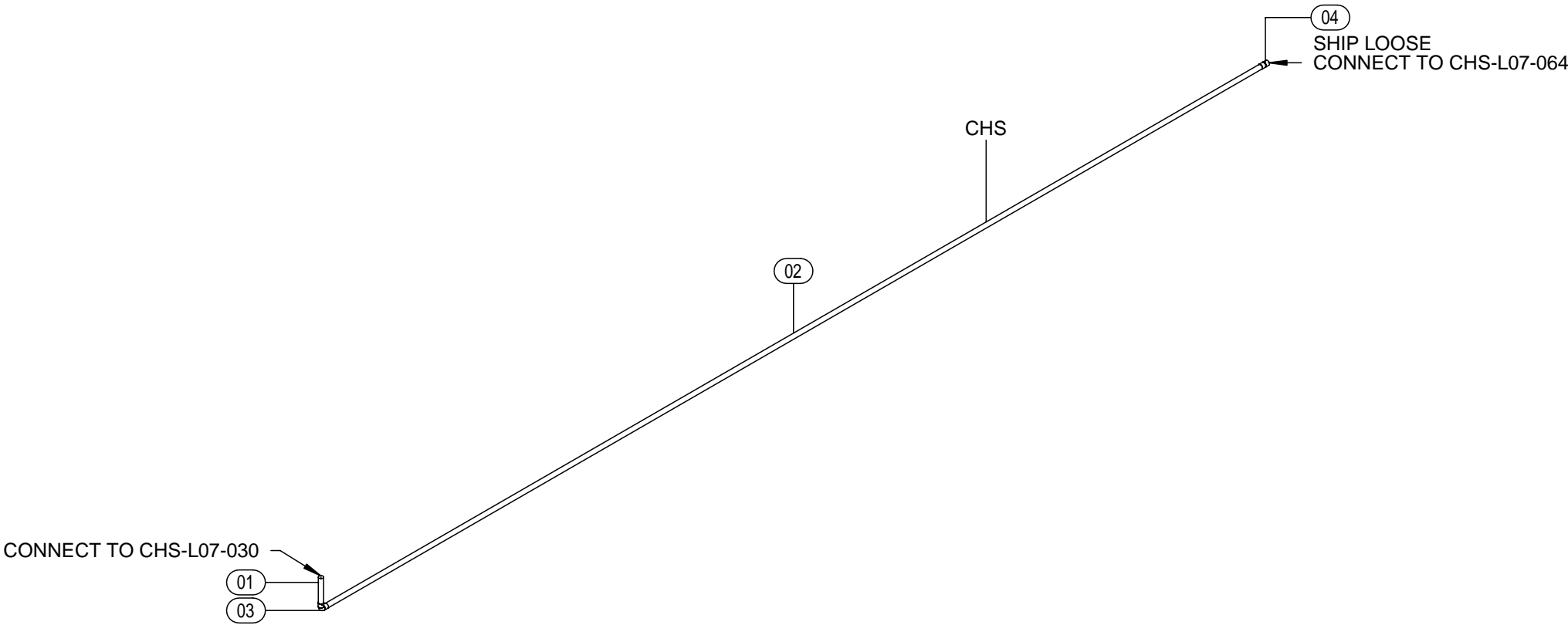
JOB:	WASH U NRB
TICKET:	CHR-L07-063
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



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

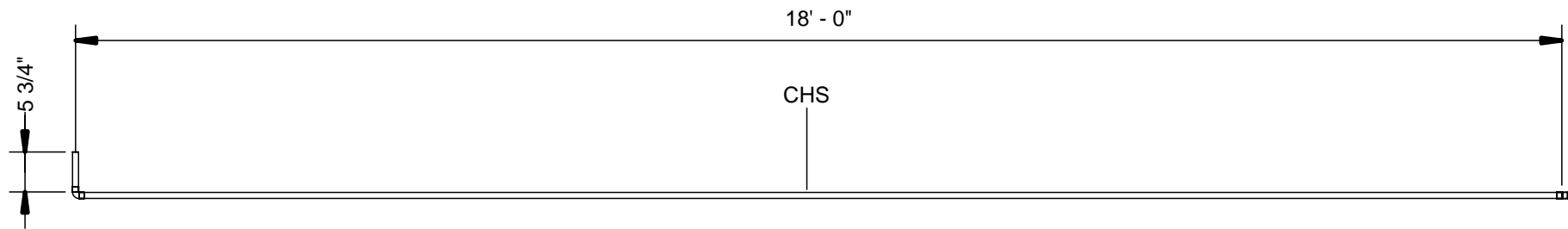
BIM 360/WUSM NRBWUSM\_RB\_HPE.rvt  
23-11-2021 12:39:31

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type K Hard Copper Pipe	0'-5 13/16"				1"
02	1	3/4"	Cerro Type K Hard Copper Pipe	17'-11 1/2"				1"
03	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"
04	1	3/4"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1"



1 ISOMETRIC

SCALE:

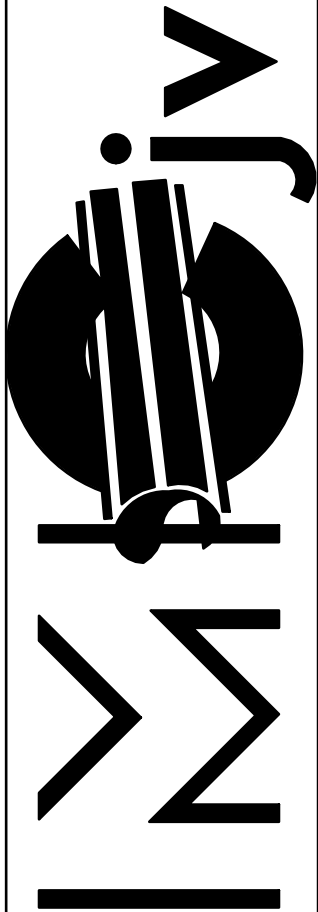


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

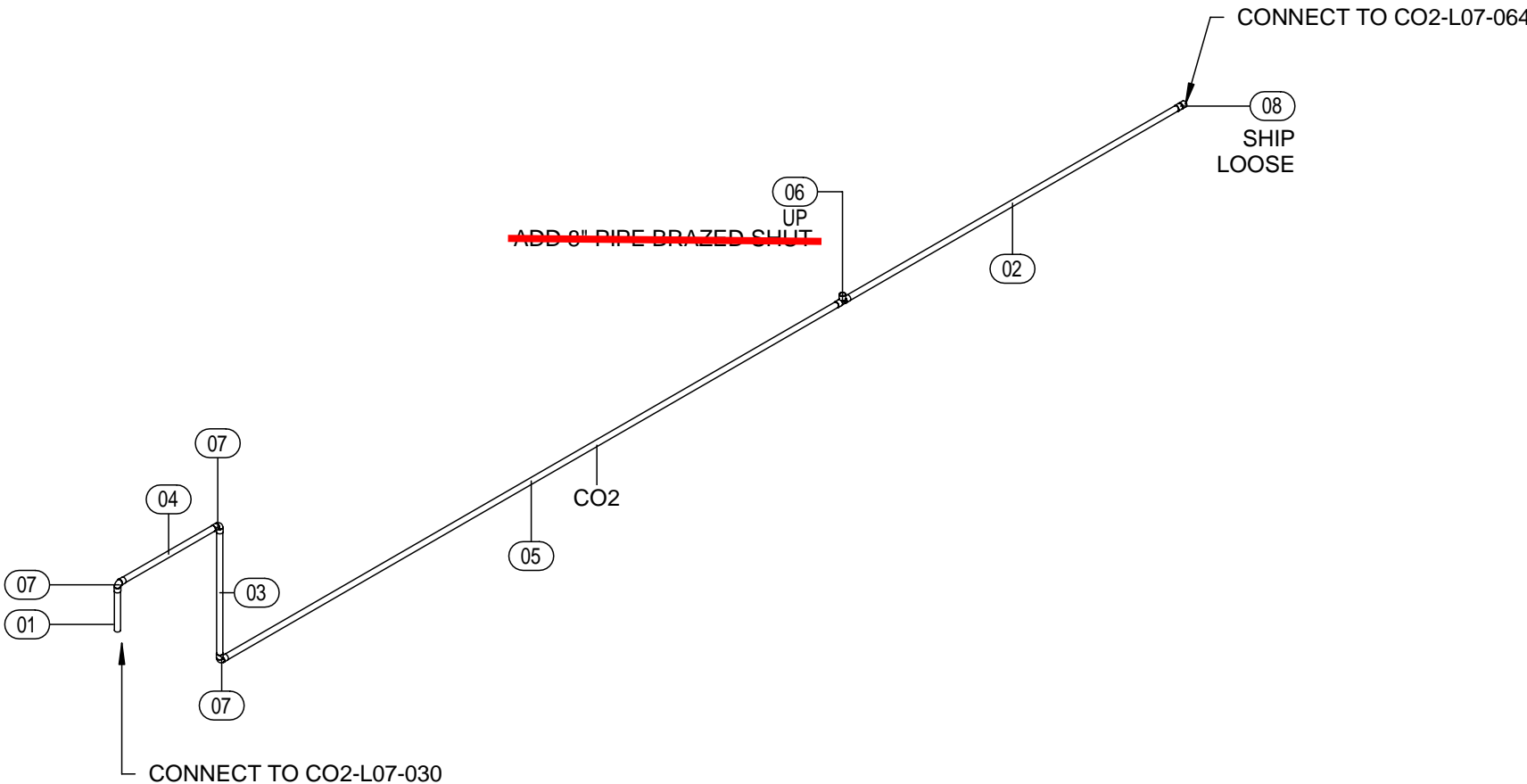
JOB: WASH U NRB  
TICKET: CHS-L07-063  
Drawn By: Author  
DATE: 11/23/21  
DATE REQ:



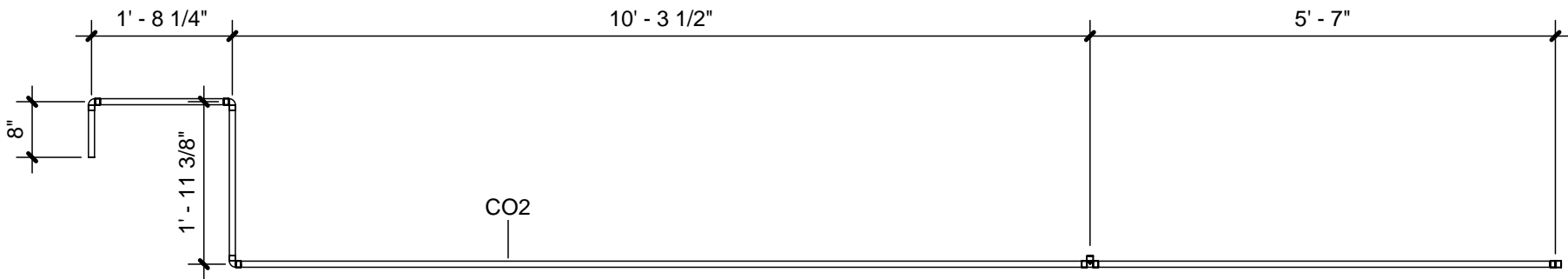
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

BIM 360/WUSM NRBWUSM\_RB\_PUF.rvt  
23-11-2021 18:18:14

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-7 1/2"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	5'-6 9/16"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-10 3/8"				
04	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-7 1/4"				
05	1	3/4"	Cerro Type L Hard Copper - CFOS	10'-2 9/16"				
06	1	3/4"	Nibco 611-CB CFOS Wrot Copper Tee					
07	3	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					
08	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					



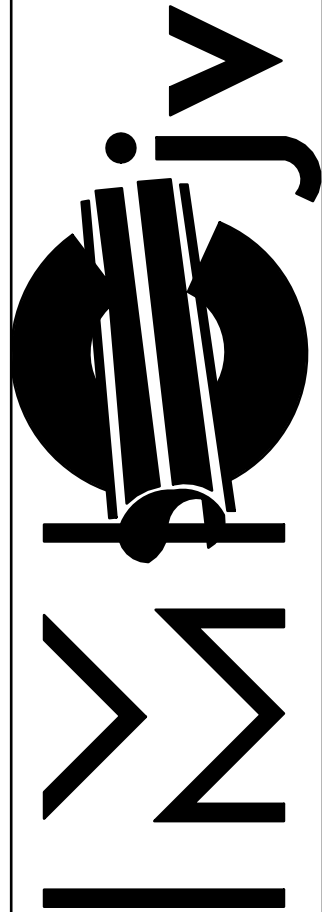
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

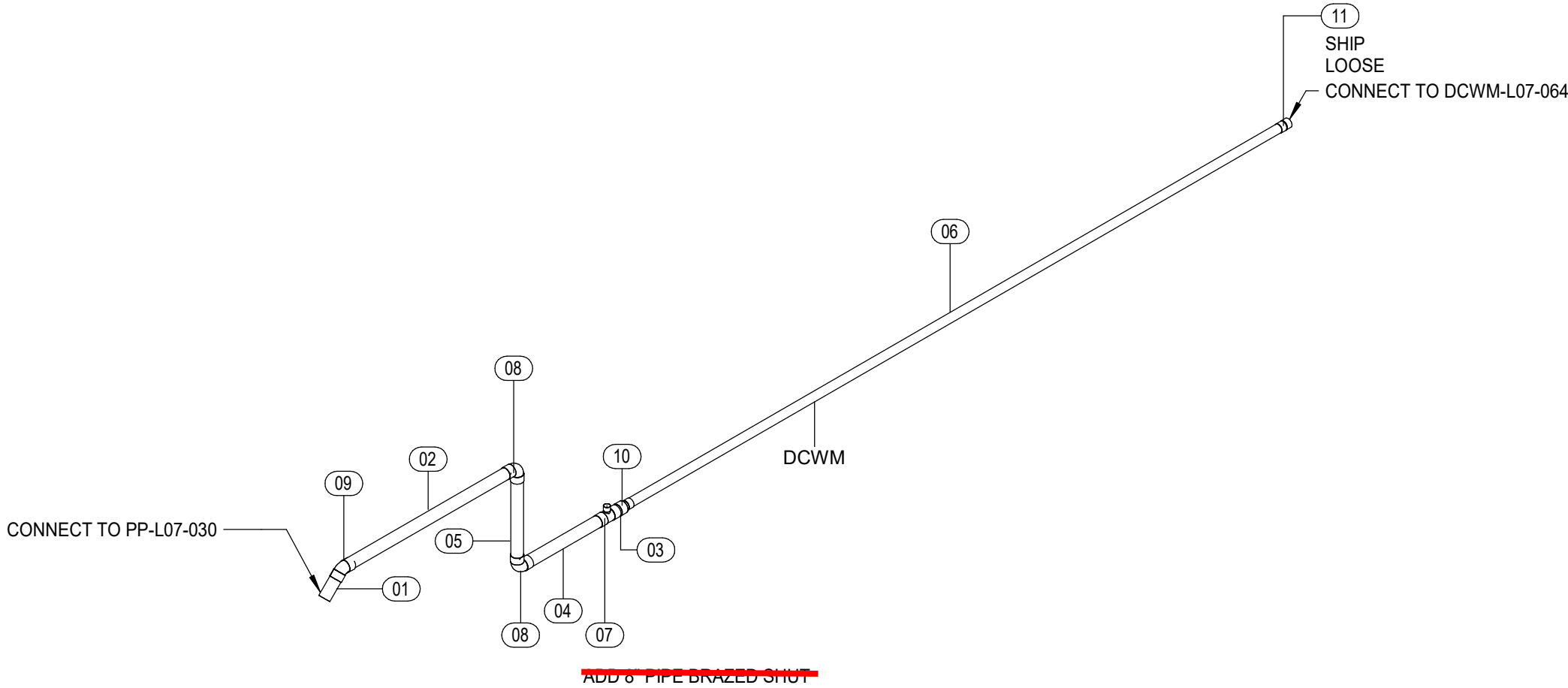
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TICKET: CO2 -L07-063  
Drawn By: Author  
DATE: 11/23/21  
DATE REQ:



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

BIM 360://WUSM NRBWUSM\_RB\_PLF.rvt  
12/16/2021 2:27:12 PM

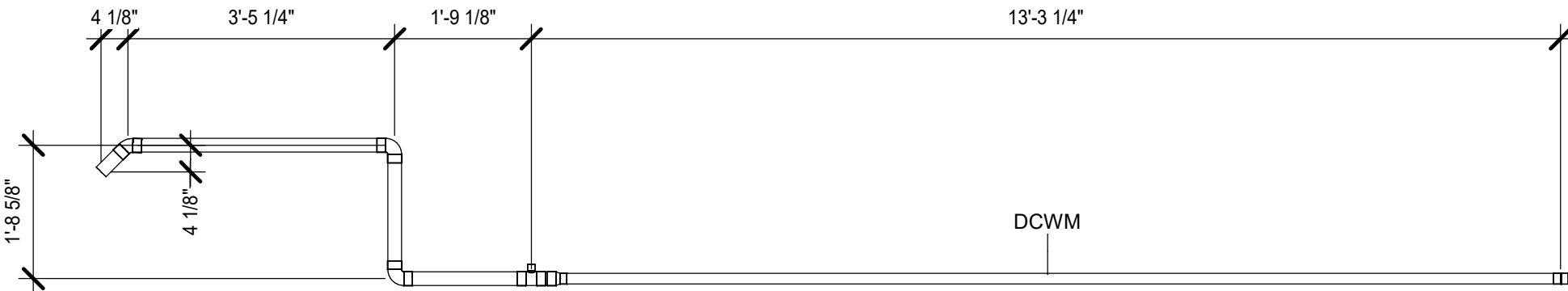
Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	2"	Cerro Type L Hard Copper Pipe	0'-5 1/16"				1"
02	1	2"	Cerro Type L Hard Copper Pipe	3'-3 1/8"				1"
03	1	2"	Cerro Type L Hard Copper Pipe	0'-3"				1"
04	1	2"	Cerro Type L Hard Copper Pipe	1'-6 7/8"				1"
05	1	2"	Cerro Type L Hard Copper Pipe	1'-5 13/16"				1"
06	1	1 1/2"	Cerro Type L Hard Copper Pipe	12'-10 13/16"				1"
07	1	2"x1"x2"	Nibco Wrot 611R CxCxC Reducing Tee					1"
08	2	2"	Nibco Wrot 607 90 Deg Ell CxC					1"
09	1	2"	Nibco Wrot 606 45 Deg Ell CxC					1"
10	1	2"x1 1/2"	Nibco Wrot 600R Red Cplg CxC					1"
11	1	1 1/2"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1"
12	1	1 1/2"	Generic 95/5 Solder Joint					1"



1

ISOMETRIC

SCALE:



2

RIGHT ELEVATION

SCALE: 1/2\"/>

A1	A3	B1	B3
A2	A4	B2	B4

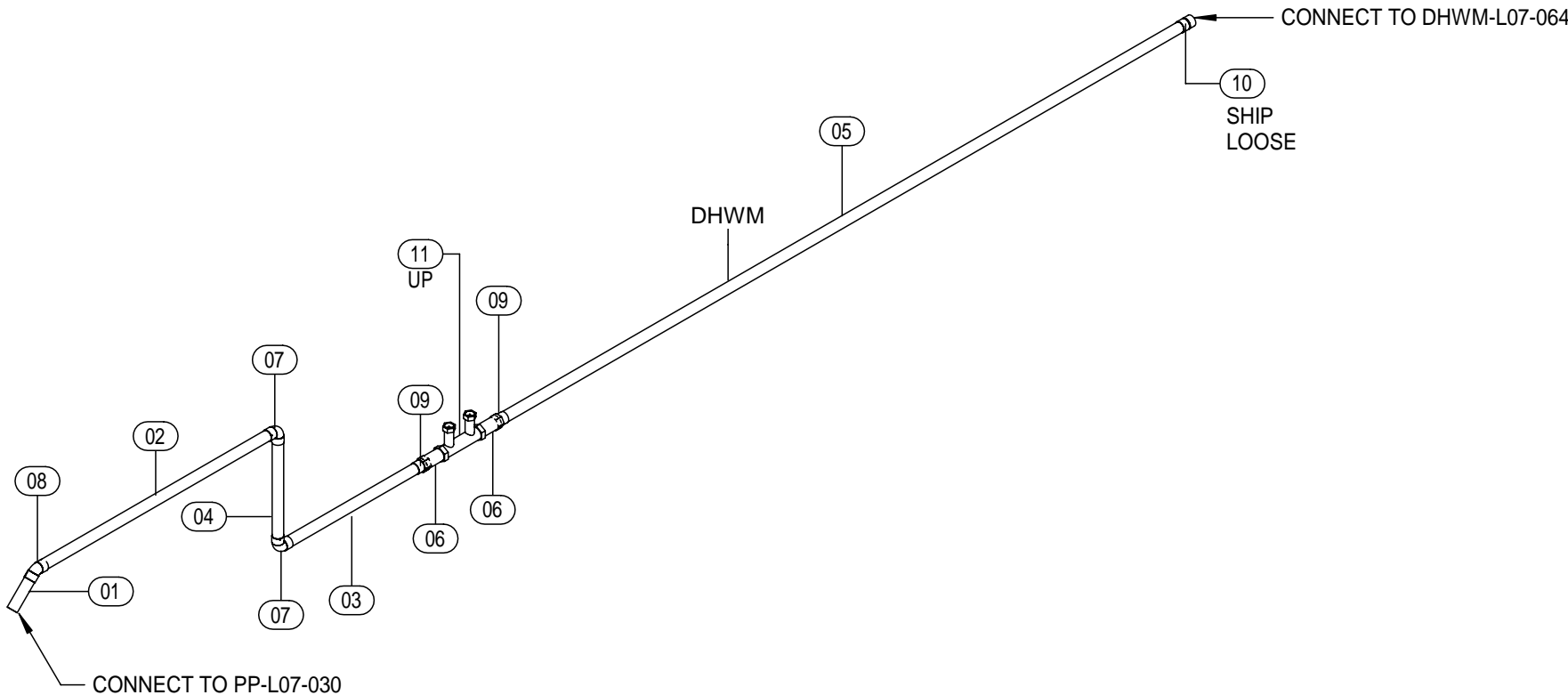
JOB:	WASH U NRB
TICKET:	DCWM-L07-063
Drawn By: Author	
DATE: 11/23/21	DATE REQ:

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

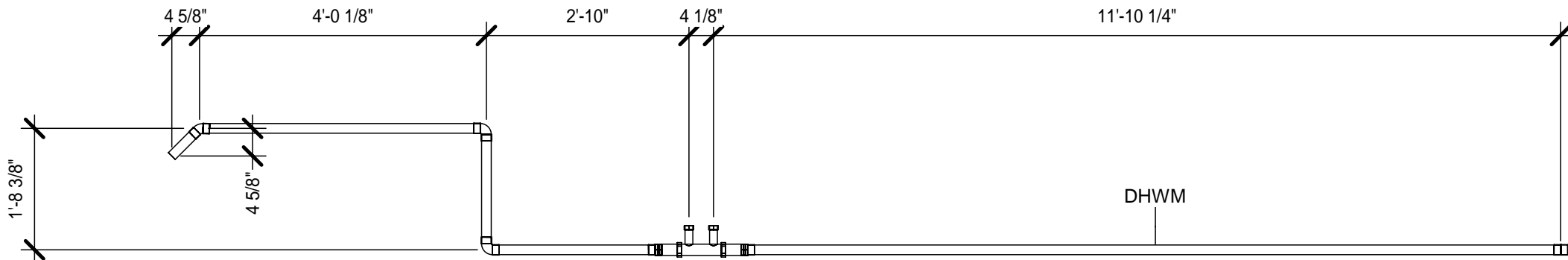


BIM 360://WUSM NRBWUSM\_RB\_PLF.rvt  
23-11-2021 05:29:16 PM

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Cerro Type L Hard Copper Pipe	0'-6"				2"
02	1	1 1/2"	Cerro Type L Hard Copper Pipe	3'-10 9/16"				2"
03	1	1 1/2"	Cerro Type L Hard Copper Pipe	2'-3 1/4"				2"
04	1	1 1/2"	Cerro Type L Hard Copper Pipe	1'-6 5/16"				2"
05	1	1 1/2"	Cerro Type L Hard Copper Pipe	11'-4 7/16"				2"
06	2	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting					2"
07	2	1 1/2"	Nibco Wrot 607 90 Deg Ell CxC					2"
08	1	1 1/2"	Nibco Wrot 606 45 Deg Ell CxC					2"
09	2	1 1/2"	Nibco Wrot 603 Adapter CxF					2"
10	1	1 1/2"	Nibco Wrot 600 Dimpled Stop Coupling CxC					2"
11	1	1 1/2"x1"	Kemper Kemper Fig651 20 KHS Flow-Splitter FPT					2"



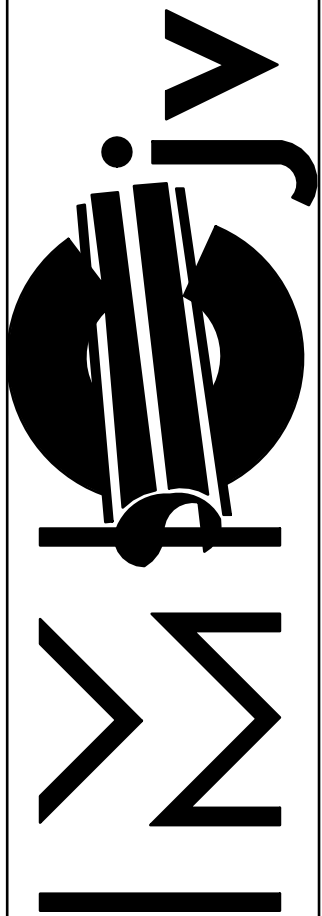
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

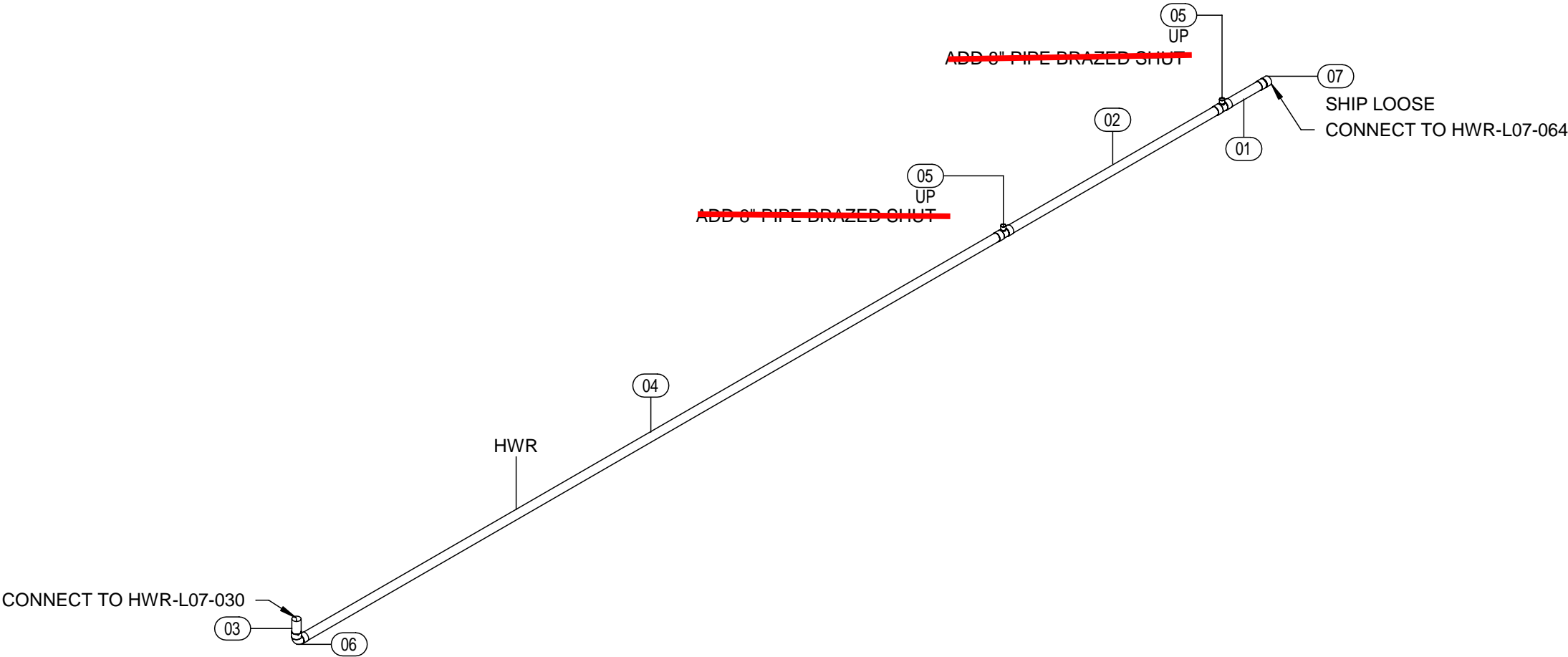
JOB: WASH U NRB	TICKET: DHWM-L07-063	Drawn By: Author	DATE: 11/23/21
DATE REQ:			



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

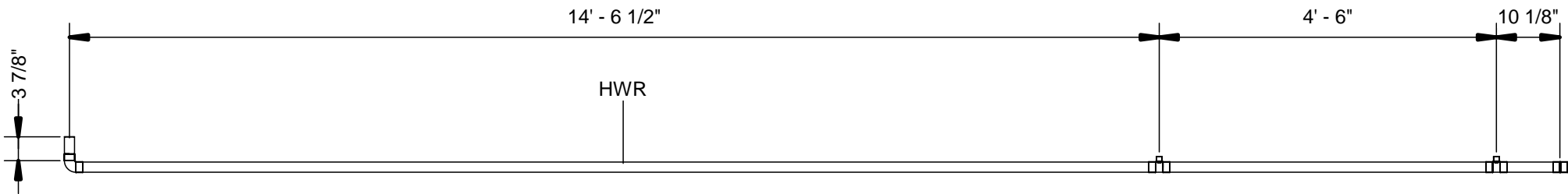
BIM 360/WUSM NRBWUSM\_RB\_HPE.rvt  
23-11-2021 12:37:50

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Cerro Type K Hard Copper Pipe	0'-9 9/16"				1 1/2"
02	1	1 1/2"	Cerro Type K Hard Copper Pipe	4'-4 13/16"				1 1/2"
03	1	1 1/2"	Cerro Type K Hard Copper Pipe	0'-3 13/16"				1 1/2"
04	1	1 1/2"	Cerro Type K Hard Copper Pipe	14'-4 7/8"				1 1/2"
05	2	1 1/2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
06	1	1 1/2"	Nibco Wrot 607 90 Deg Ell CxC					1 1/2"
07	1	1 1/2"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1 1/2"



1 ISOMETRIC

SCALE:



2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

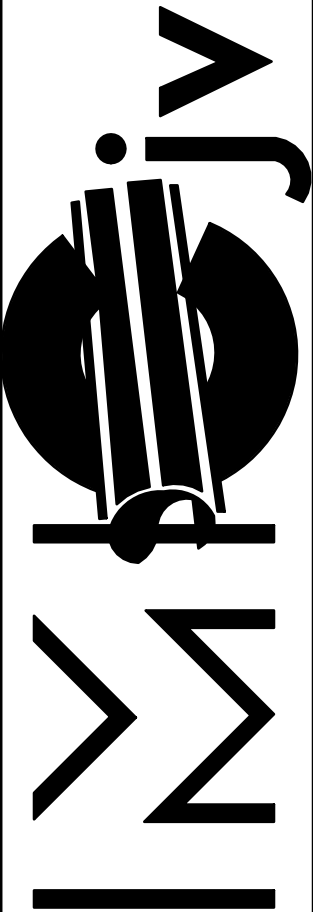
JOB: WASH U NRB

TICKET: HWR-L07-063

Drawn By: Author

DATE: 11/23/21

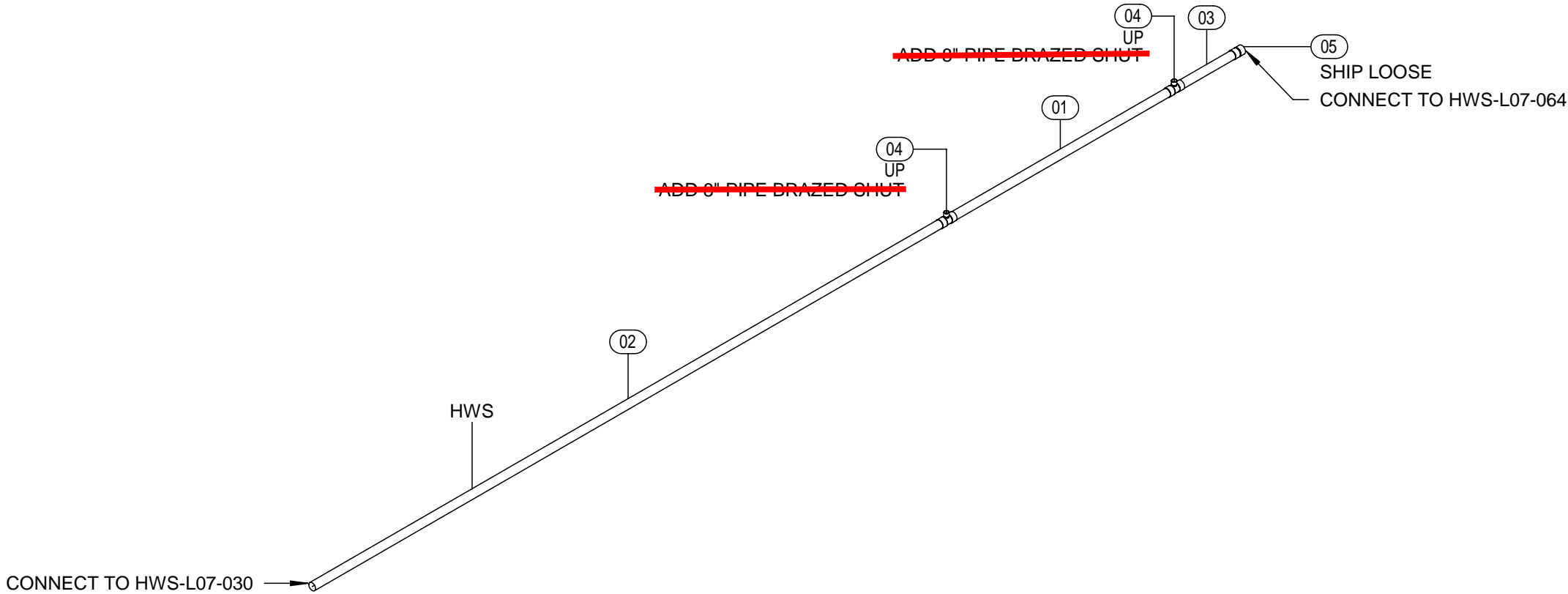
DATE REQ:



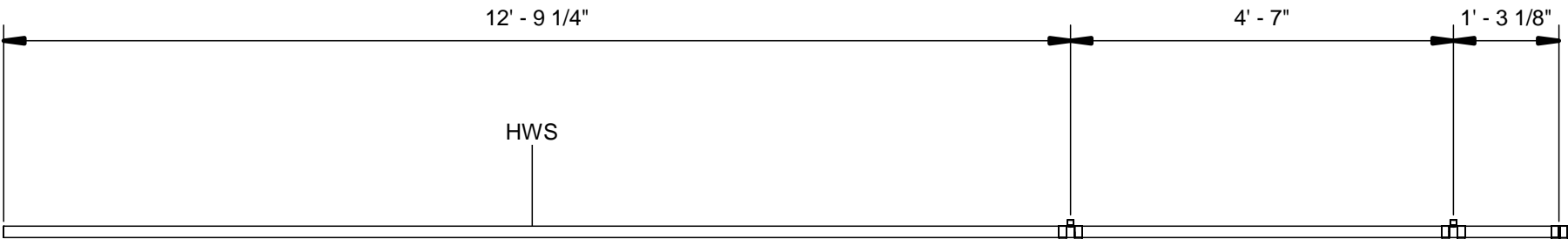
1233 N. Price Rd.  
St. Louis, Mo 63132-2303  
314-997-6600 phone

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23-11-2021 12:38:38

Mark	Qty	Size	Description	Length	Strut Width	Rob 1	Rob 2	Insulation
01	1	1 1/2"	Cerro Type K Hard Copper Pipe	4'-5 13/16"				1 1/2"
02	1	1 1/2"	Cerro Type K Hard Copper Pipe	12'-8 5/8"				1 1/2"
03	1	1 1/2"	Cerro Type K Hard Copper Pipe	1'-2 9/16"				1 1/2"
04	2	1 1/2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
05	1	1 1/2"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1 1/2"



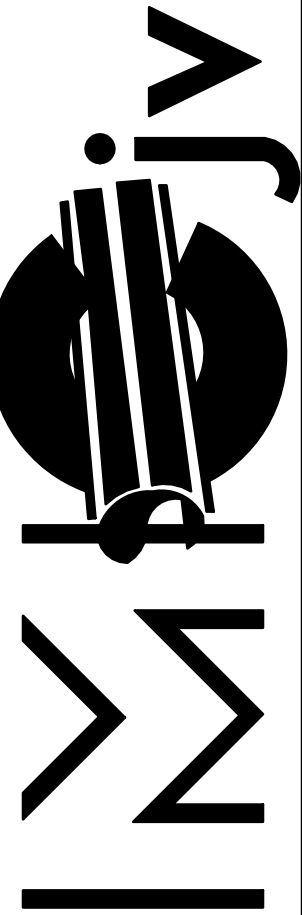
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

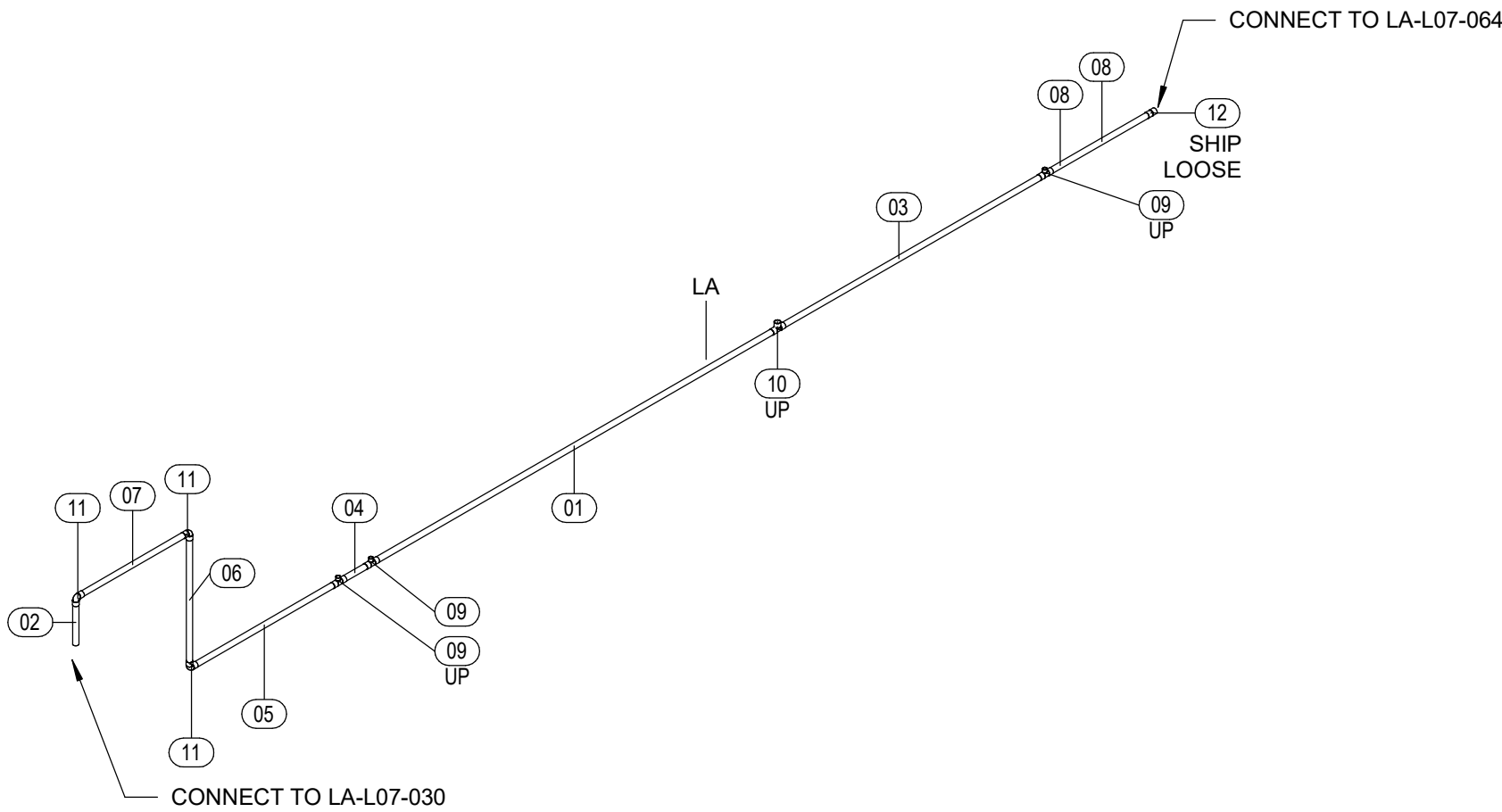
JOB:	WASH U NRB
TICKET:	HWS-L07-063
Drawn By:	Author
DATE:	11/23/21
DATE REQ:	



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314-997-6600 phone

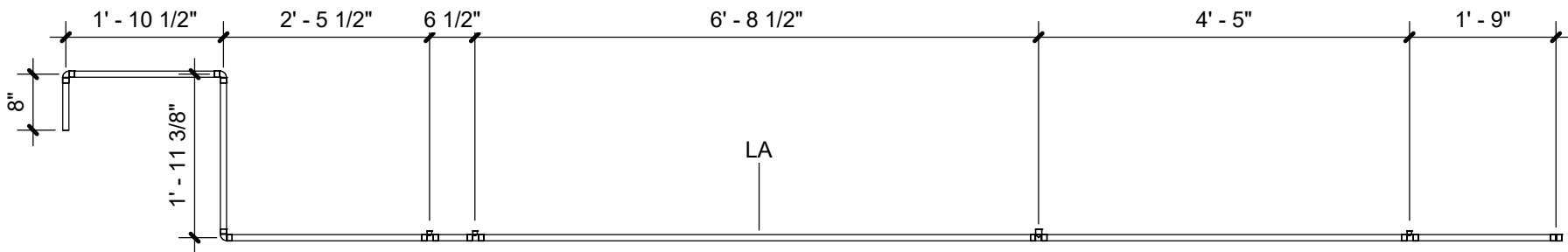
BIM 360//WUSM NRBWUSM\_RB\_PUF.rvt  
2/8/2022 1:02:18 PM

Mark	Qty	Size	Description	Length	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	6'-7 5/8"	
02	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-7 1/2"	
03	1	3/4"	Cerro Type L Hard Copper - CFOS	4'-4 1/8"	
04	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-5 5/8"	
05	1	3/4"	Cerro Type L Hard Copper - CFOS	2'-4 1/2"	
06	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-10 3/8"	
07	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-9 1/2"	
08	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-8 1/2"	
09	3	3/4"x1/2"x3/4"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
10	1	3/4"	Nibco 611-CB CFOS Wrot Copper Tee		
11	3	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow		
12	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop		



1 ISOMETRIC

SCALE:

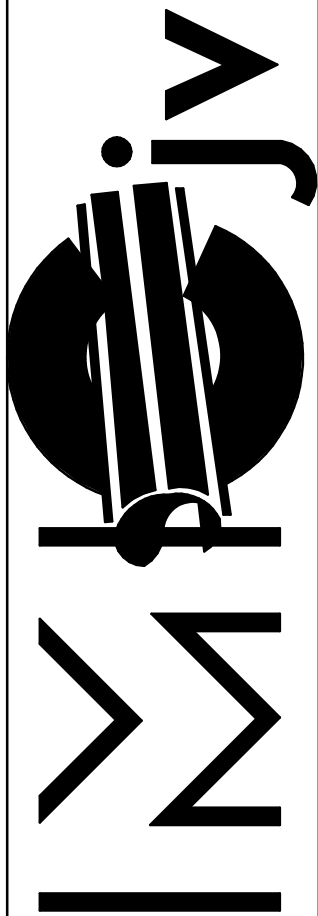


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

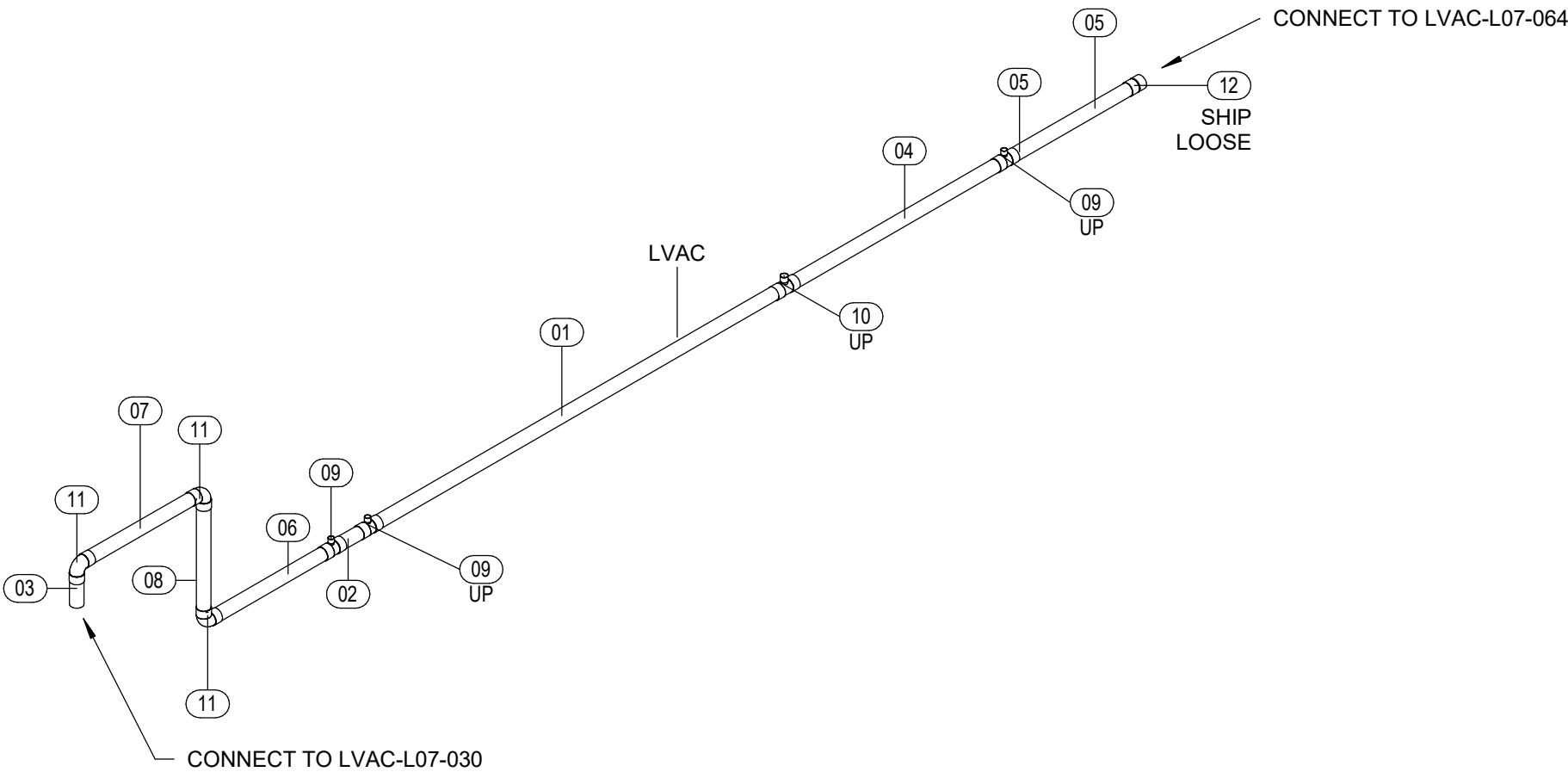
JOB: WASH U NRB  
TICKET: LA -L07-063  
Drawn By: Author  
DATE: 11/23/21  
DATE REQ:



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

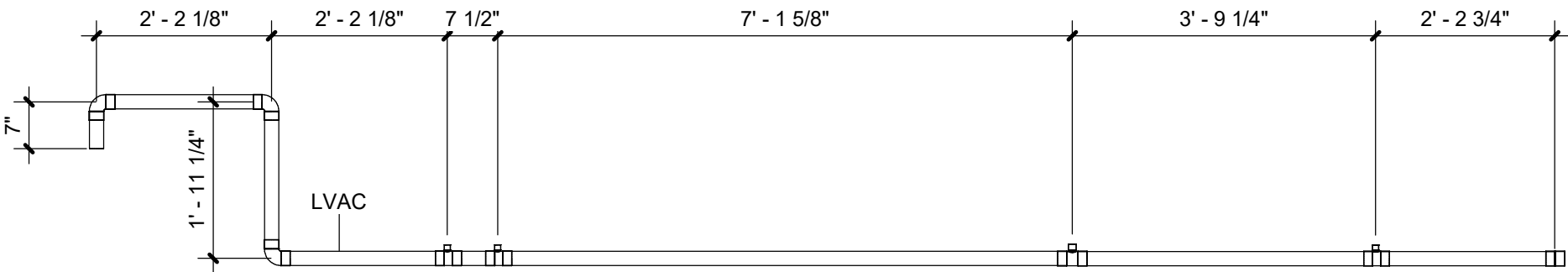
BIM 360//WUSM NRBWUSM\_RB\_PUF.rvt  
2/8/2022 1:02:41 PM

Mark	Qty	Size	Description	Length	Insulation
01	1	2"	Cerro Type L Hard Copper - CFOS	7'-0"	
02	1	2"	Cerro Type L Hard Copper - CFOS	0'-6 1/4"	
03	1	2"	Cerro Type L Hard Copper - CFOS	0'-5 1/2"	
04	1	2"	Cerro Type L Hard Copper - CFOS	3'-7 7/8"	
05	1	2"	Cerro Type L Hard Copper - CFOS	2'-2"	
06	1	2"	Cerro Type L Hard Copper - CFOS	2'-0 3/8"	
07	1	2"	Cerro Type L Hard Copper - CFOS	1'-11 1/4"	
08	1	2"	Cerro Type L Hard Copper - CFOS	1'-8 1/2"	
09	3	2"x3/4"x2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
10	1	2"x1"x2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
11	3	2"	Nibco 607-CB CFOS Wrot 90 Elbow		
12	1	2"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop		



1 ISOMETRIC

SCALE:

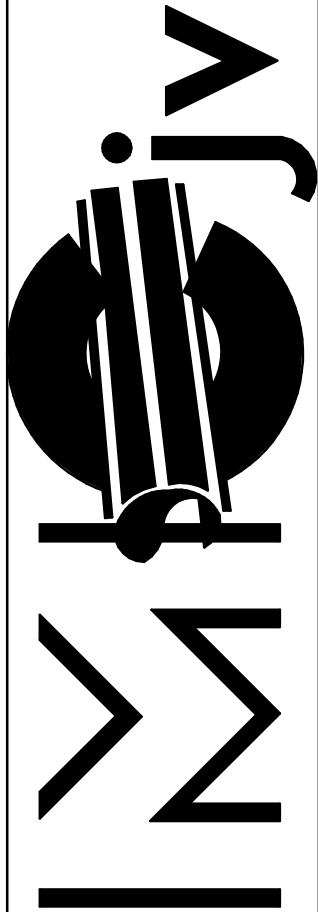


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

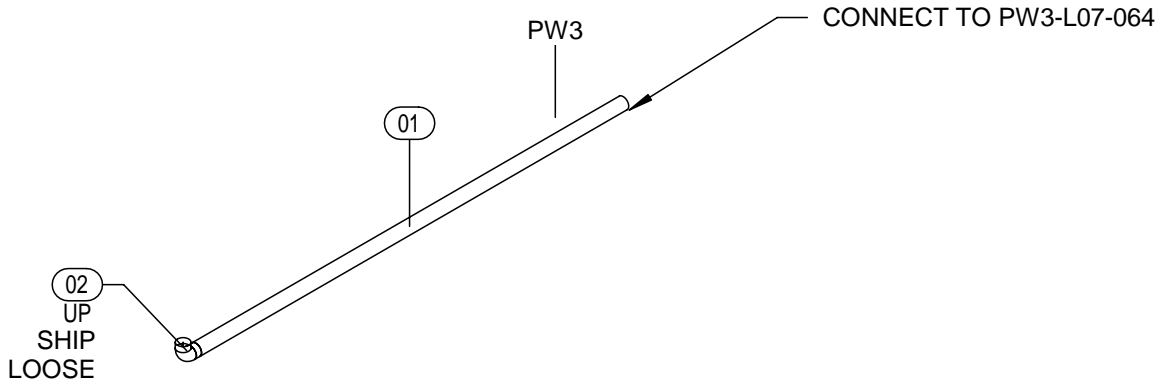
JOB:	WASH U NRB
TICKET:	LVAC -L07-063
Drawn By:	Author
DATE:	11/23/21
DATE REQ:	



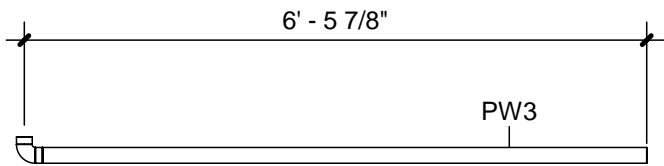
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23-11-2021 18:19:12

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	6'-3 9/16"				
02	1	1 1/2"	Geroge Fischer Slone PROGEF STD-PP IR Butt-Fusion 90 SR Elbow					



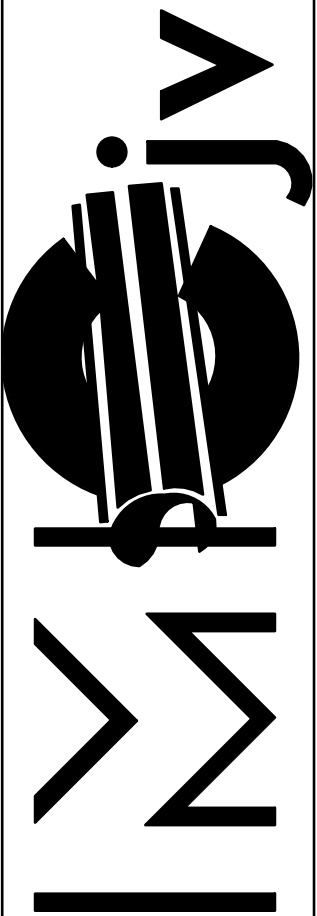
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	PW3 -L07-063
Drawn By: Author	
DATE: 11/23/21	DATE REQ:



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