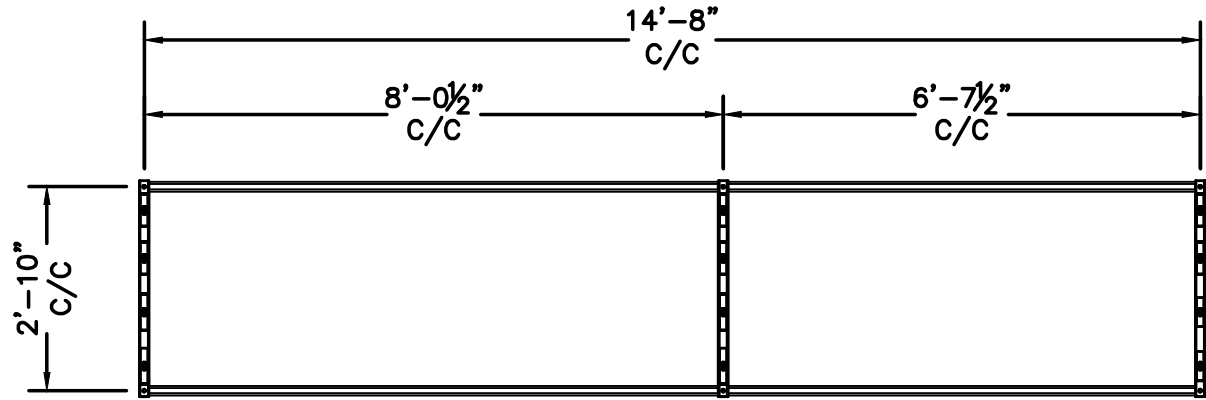


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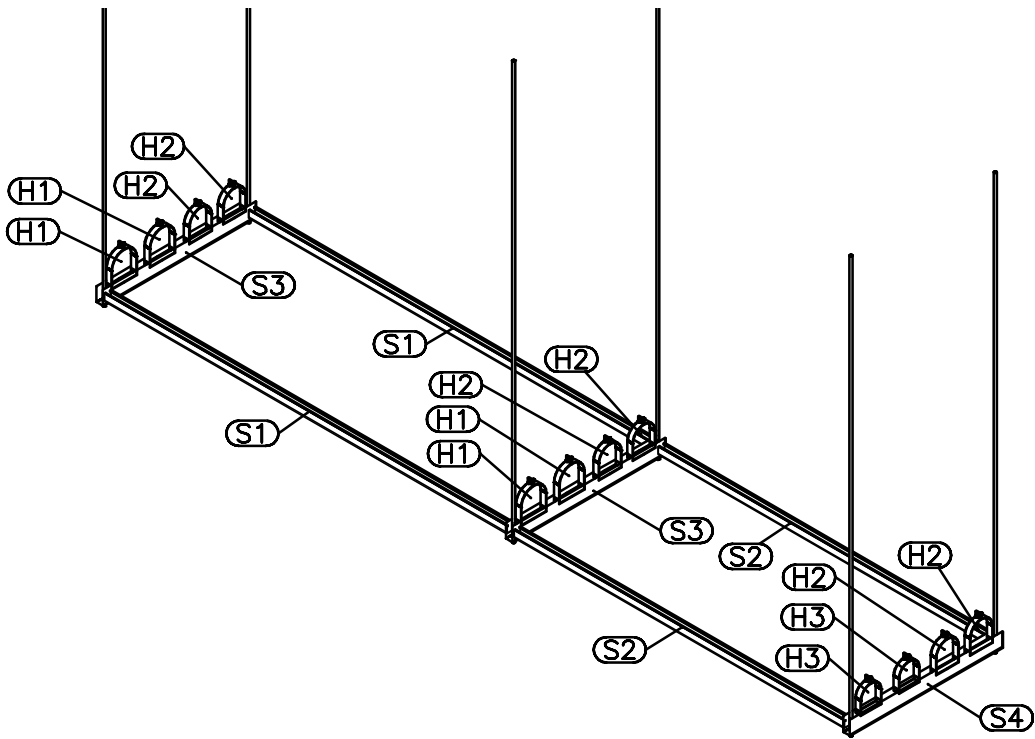
1233 N. Price Rd.  
St. Louis, MO 63132-2303  
314-997-6600 phone  
BIMCAD@murphy-stl.com

DRN BW		8/22/2021	WUSM RESEARCH BUILDING										QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>	
CHK			NRB														FITTING ORIENTATION				<input type="checkbox"/>	
APP			LVL03 AHU SPOOLS														BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>	
JOB NO.		210140	SERVICE NAME														SPOOL IDENTIFICATION				<input type="checkbox"/>	
REF.DWG.		WUSM C-03	RACK UPL3-A02										SPEC.		ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS			
													NA		NA	NA	NA	NA	MURPHY WPS#			
													0									
DRAWING NO./TRACKING NO. 210140-A-UPL3-A02		QTY.	1	SHT/NO	1 OF 1	REV	0	DESCRIPTION								DRN	CHK	APP				



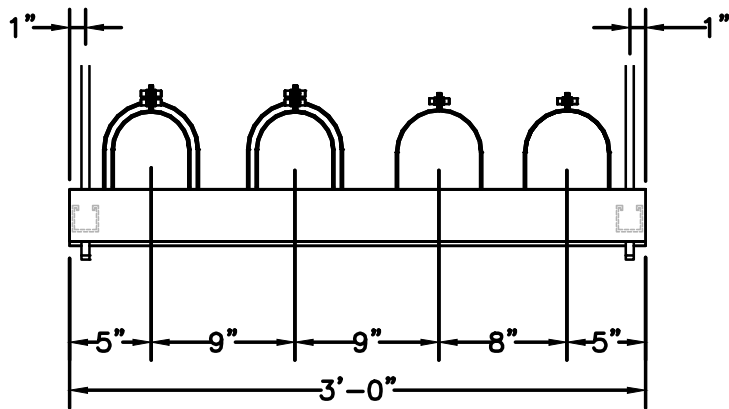
PLAN VIEW  
SCALE: N.T.S.

2



ISOMETRIC VIEW  
SCALE: N.T.S.

1



ELEVATION VIEW  
SCALE: N.T.S.

3

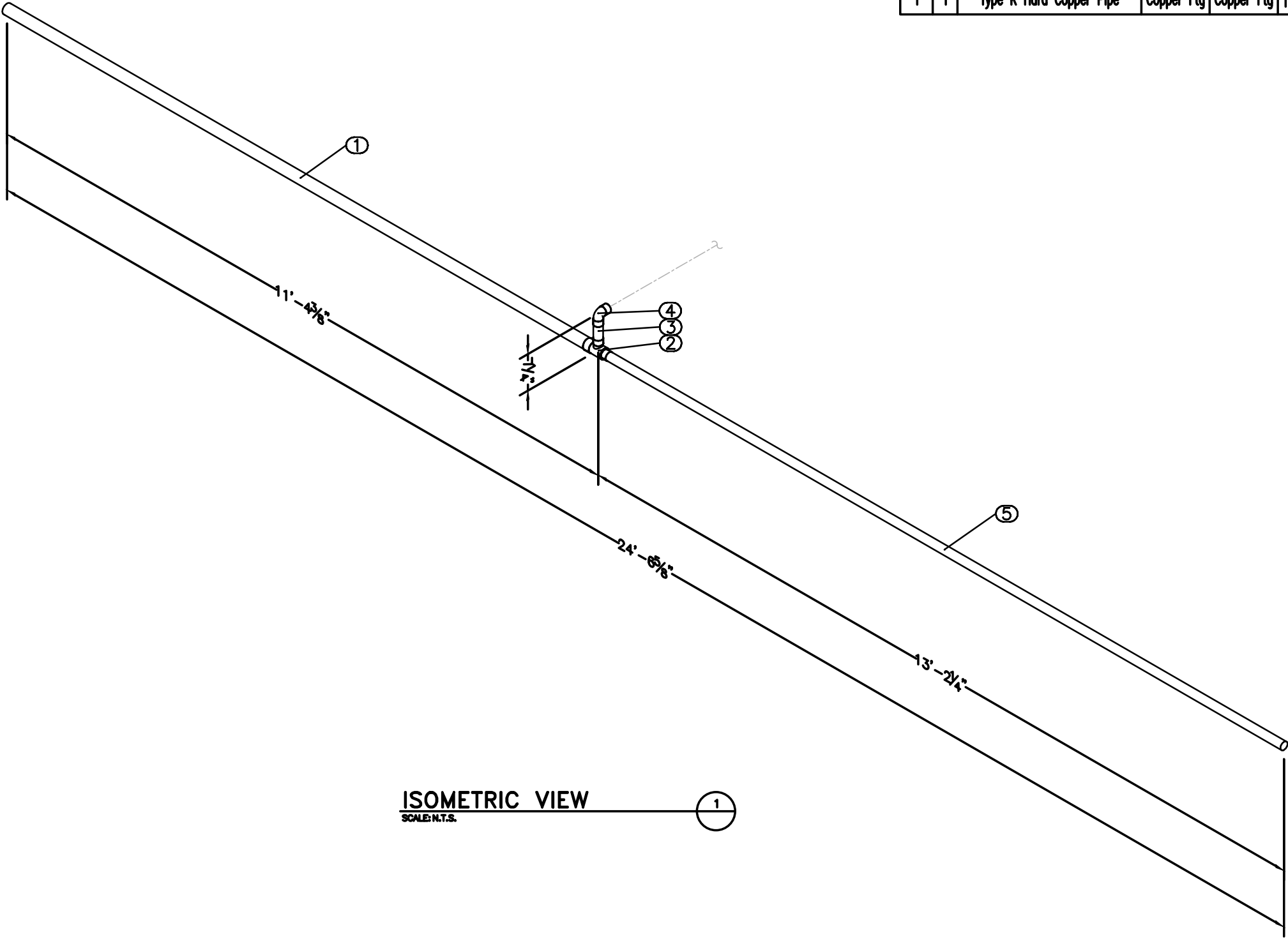
BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	928350	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_IPS	4	3	
H2	929162	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	6	1-1/2	
H3	928262	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	2	2-1/2	
S1	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	2	1-5/8x1-5/8	95"
S2	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	2	1-5/8x1-5/8	78"
S3	B22SHAGLV	1-5/8 GALV 12GA Bk/Bk 2in Slotted Unistrut	2	1-5/8x3-1/4	
S4	B22SHAGLV	1-5/8 GALV 12GA Bk/Bk 2in Slotted Unistrut	1	1-5/8x3-1/4	

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<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION <input type="checkbox"/> FITTING ORIENTATION <input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT <input type="checkbox"/> SPOOL IDENTIFICATION	QA/QC ACCEPT				WUSM RESEARCH BUILDING			
	SPEC.	ASME	X-RAY	HYDRO TEST	COMMENTS	NRB		
	NA	NA	NA	NA	MURPHY WPS#			
	0	REV	DATE	DESCRIPTION	DRN	CHK	APP	

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING		
CHK			NRB		
APP			LVLO3 AHU SPOOLS		
JOB NO.	210140	SERVICE NAME	RACK UPL3-A02-STEEL		
REF.DWG.	WUSM C-03	QTY.	1	SHT/NO	1 OF 1
DRAWING NO./TRACKING NO.	210140-A-UPL3-A02-STL	REV	0		



ISOMETRIC VIEW  
SCALE: N.T.S.

1

## Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Wrot 611R CxCxC Reducing Tee					2x1-1/2x1-1/2
4	1	Wrot 607 90 Deg Ell CxC					1-1/2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4 15/16"	4.923	1-1/2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	13'-0 3/4"	156.740	1-1/2
1	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	11'-3 5/16"	135.306	2

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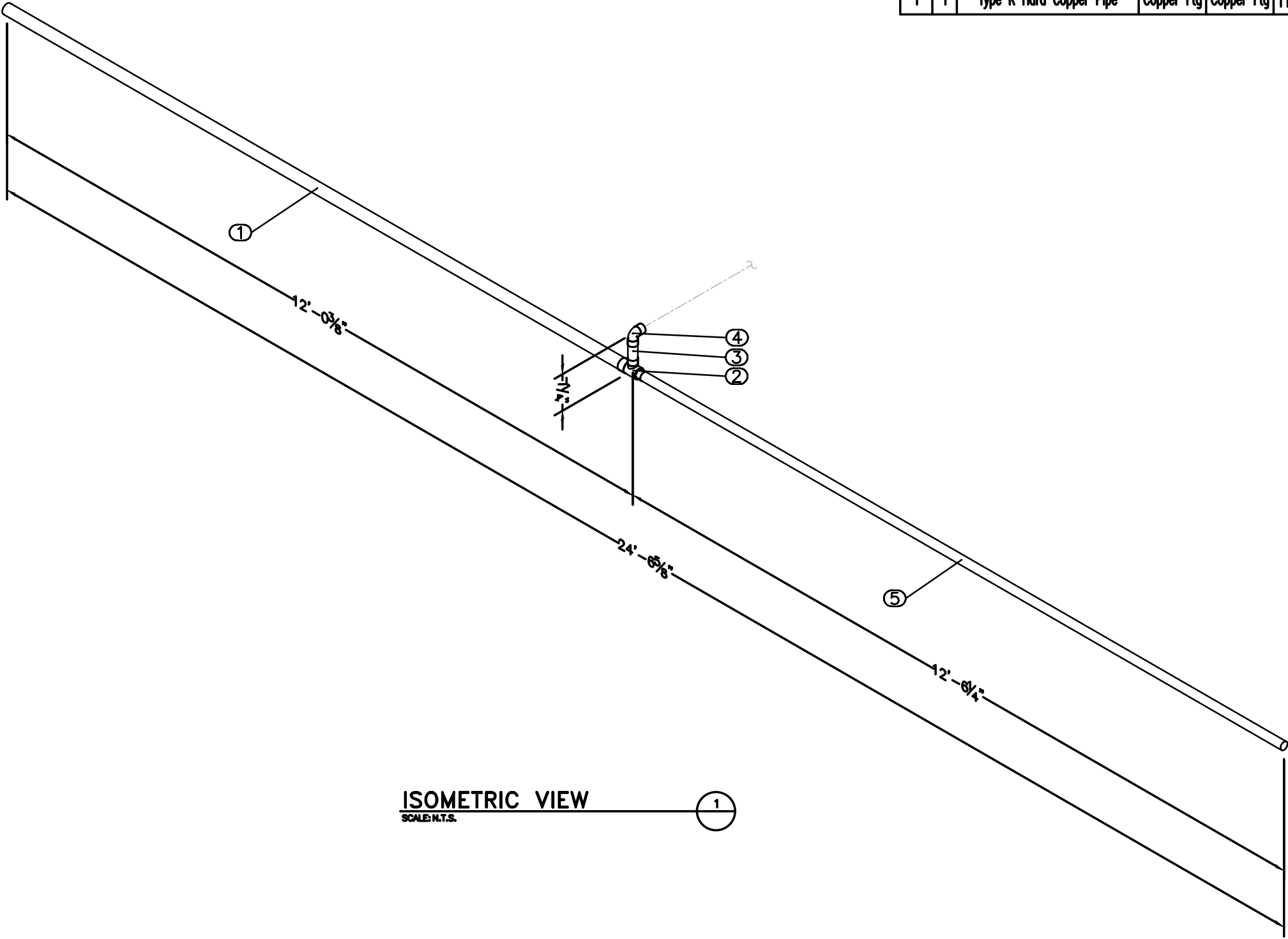
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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION
<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

QA/QC ACCEPT	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS
	NA	NA	NA	NA	MURPHY WPS#

0	REV	DATE	DESCRIPTION	DRN	CHK	APP

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING			
CHK			NRB			
APP			LVLO3 AHU SPOOLS			
JOB NO.	210140		SERVICE NAME	HHWS		
REF.DWG.	WUSM C-03					
DRAWING NO./TRACKING NO.	210140-A-A-UPL3-A02-01	QTY.	1	SHT/NO	1 of 1	REV
						0



# Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Wrot 611R CxCxC Reducing Tee					2x1-1/2x1-1/2
4	1	Wrot 607 90 Deg Ell CxC					1-1/2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4 15/16"	4.923	1-1/2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	12'-4 3/4"	148.739	1-1/2
1	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	11'-11 5/16"	143.297	2

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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION
<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

QA/QC ACCEPT	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS
	NA	NA	NA	NA	MURPHY WPS#

0	REV	DATE	DESCRIPTION	DRN	CHK	APP

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING
CHK			NRB
APP			LVLO3 AHU SPOOLS
JOB NO.	210140	SERVICE NAME	HHWR
REF.DWG.	WUSM C-03	SHT/NO	1 OF 1
DRAWING NO./TRACKING NO.	210140-A-UPL3-A02-02	QTY.	1
		REV	0



