

ISOMETRIC VIEW SCALE: N.T.S.

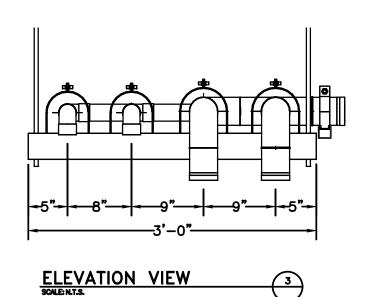
UPL3-A01-01 (2"HHWS-1½"INS.)

UPL3-A01-02 (2"HHWR-1½"INS.)

UPL3-A01-03 (3"CHWR-1"INS.)

UPL3-A01-04 (3"CHWS-1"INS.)

M	1u	rphy-PFFS-Ship	Loc	se	E	BON	1
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 601 No Stop Cplg CxC					2
2	4	Style 107N QuickVic EHP Pnt Rigid Cpl					3

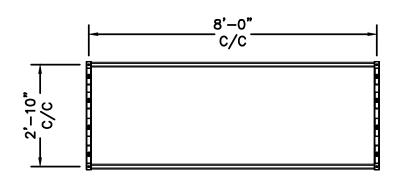


				w	
/ , ' , \ U		1		T.	
	1 N				
			SINI	TE 1007	

CONSTRUCTORS -ENGINEERS MECHANICAL - INDUSTRIAL

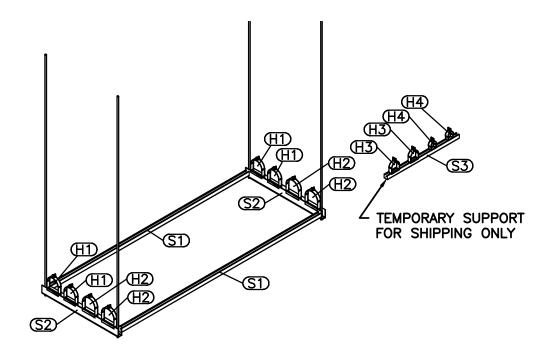
1233 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy-stl.com

	8/22/2021	MICI	V DE	N PESENDELL DING		OA/OC ACCEPT	CCEPT	FLANGE	FLANGE WEIGHT/ORIENTATION	ORIENT/	ATION
		5 5 8	i - -	באולון סטור				FITTING	FITTING ORIENTATION	VOIT	
			1	אצע				BOLTS/(	BOLTS/CPLG'S/TH'D TIGHT	1'D TIGHT	_
210	210140	<b>_</b>	<b>VL03</b>	.VL03 AHU SPOOLS	ا <u>-</u>			COG	SPOOL IDENTIFICATION	ATION	
			T NAME								
		SERVICE			SPEC	S. ASME		X-RAY HYDRO TEST PWHT	PWHT	CON	COMMENTS
MI IC	20 0 M		Y Y	KA(:K UPI 5-A()1		┨					
NO.	NOSM C-US				¥	₹	¥	*	2	MURPHY WPS#	7
400	CIA CIAINO AIC		ı	CIT AIC	i i						
Z- /- Z-	CKING NO.		<u>:</u>	ON/INC	אַנּג						
<b>C</b>	\	<b>~</b>	•	7	·						
4 0 1	40-A-Orls-AO	- O V	_	<u>-</u> <u>-</u> <u>-</u> <u>-</u>	O REV	REV DATE	DES	DESCRIPTION		DRN CHK	똜

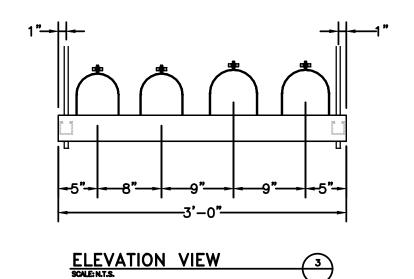


**--2'-10"-**

PLAN	VIEW	$\overline{2}$
SCALE: N.T.S.		



		BOM-STEEL			
Item No	Order	Description	Qty	Size	Steel L
H1	929162	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	4	1-1/2	
H2	928350	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_IPS	4	3	
Н3	B2015 ZN	B2000 ZN Sch 40 Pipe Clamp	2	3	
H4	B2038 DCU	B2000 Copper Tubing Clamp DURA COPPER	2	2	
S1	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	2	1-5/8x1-5/8	94 1/2"
S2	B22SHAGLV	1-5/8 GALV 12GA Bk/Bk 2in Slotted Unistrut	2	1-5/8x3-1/4	
S3	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	1	1-5/8x1-5/8	34"



ISOMETRIC VIEW SCALE: N.T.S.

1233 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy-stl.com FLANGE WEIGHT/ORIENTATION
FITTING ORIENTATION
BOLTS/CPLG'S/TH'D TIGHT
SPOOL IDENTIFICATION

QA/QC ACCEPT

CONSTRUCTORS •ENGINEERS MECHANICAL • INDUSTRIA

WUSM RESEARCH BUILDING

NRB

LVL03 AHU SPOOLS

SERNICE NAME

RACK UPL3-A01-STEEL ည့် O

-STL

REF.DWG. WUSM C-03
DRAWING NO./TRACKING NO.
210140-A-UPL3-A01-

		Murphy-Pf	FFS-	SPOC	L-BO	М	
Mark	Ğу	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 607 90 Deg Ell CxC					2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	15'-2 7/16"	182.436	2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-9 3/16"	33.213	2



CONSTRUCTORS CHORNERS MECHANICAL MOUSTRIAL

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

M RFS	M RESEARCH BUILDING	CZ	ğ	QA/QC ACCEPT	FLANG	E WEIGHT	FLANGE WEIGHT/ORIENTATION	□ _
		) : :			NILLI NILI NILLI N	FITTING ORIENTATION	VIION	
7	NAD Alli COO				BOLTS	BOLTS/CPLG'S/TH'D TIGHT	4'D TIGHT	
-VLUS	VLUS AHU SPUULS	_			SPOOL	SPOOL IDENTIFICATION	ATION	
NAME	O/M		SPEC.	ASME   X-RAY   HYDRO TEST   PWHT	HYDRO TEST	PWHT	COMMENTS	
	<b>2</b> ₩ <b>2 1</b>			AM	¥	Ž	#SOM AHOBIN	
			•				10 m	
E	SHI/NO	ر کا (	(					
-	l OF I	O R	REV DATE		DESCRIPTION		DRN CHK APP	APP

-01

REF.DWG. WUSM C-03
DRAWING NO./TRACKING NO.
210140-A-UPL3-A01-

WIISM RESEARCH BIIII DING	QAV	QA/QC ACCEPT	EPT:	FLA
				FITT
				BOL
LYLUS AHU SPUOLS				SPO
SERVICE NAME	2000	T COUNT AND A DINOV	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

(1) 2'-10%;
3
5'-5 <sup>M</sup> *
$\swarrow_{\mathbb{Z}}$
ISOMETRIC VIEW  1 SCALE: N.T.S.

		Murphy-Pf	FS-	SPOC	L-BO	М	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 607 90 Deg Ell CxC					2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	14'-6 7/16"	174.436	2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-1 1/4"	25.223	2



CONSTRUCTORS CHORNERS MECHANICAL MOUSTRIAL

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

DRN BW	8/22/2021 WIICM DEC	WISL	7	SEADCH BILL DING	ONIC	QA/QC ACCEPT	CEPT	FLANGE \	WEIGHT/O	FLANGE WEIGHT/ORIENTATION	
CHK			, , ,		בר בריים בריים			FITTING	FITTING ORIENTATION	NOI	
APP		•	;	אמ				BOLTS/CF	BOLTS/CPLG'S/TH'D TIGHT	) TIGHT	
JOB NO. 210140	0140		LVL03	AHU SPOOLS	<u>່</u> ກ			SPOOL IE	SPOOL IDENTIFICATION	NOIL	
		SERVICE NAME			<u>ל</u>	SPEC ASME	X-BAY	THWO TEST ON THE	DWHT	COMMENTS	
	0 ::0	_		Ω ≥ Σ Ι	5					Commercia	
REF.DWG. WUSM C-03	SM C-03					AN A	¥	¥	NA MU	MURPHY WPS#	
DRAWING NO /TRACKING NO	ACKING NO		JIL.	SHT /NO	پي				1		
24 04 40 4	210140 A 11D1 Z A01 02		•	•	0						
7-04-017	4-OFL3-AL	70_1	_	I OF I	O	REV DATE	DES	DESCRIPTION		DRN CHK APP	APP

149%	2
	ISOMETRIC VIEW  1 SCALE: N.T.S.

	Murphy-PFFS-SPOOL-BOM						
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Style 107N QuickVic EHP Pnt Rigid Cpl					3
1	2	Std Wt SA234 WPB CS BW LR 90 Deg EII					3
4	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	13'-3"	159.000	3
5	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End	BEV	1'-1"	13.000	3
3	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	4"	4.000	3



CONSTRUCTORS •ENGINEERS MECHANICAL • INDUSTRIAL

0000

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

SFARCH BUILDING	SNIC	QA/QC ACCEPT	CCEPT	FLANG	FLANGE WEIGHT/ORIENTATION	/ORIENT	ATION	l
	<u> </u>			FITTING	FITTING ORIENTATION	VIION		
				BOLTS/	BOLTS/CPLG'S/TH'D TIGHT	HD TIGH	_	
AHU SPOOLS	  -			SPOOL	SPOOL IDENTIFICATION	SATION		
awh.	SPEC.	EC. ASME		X-RAY HYDRO TEST PWHT	PWHT	O	COMMENTS	
	2	AN .	AN .	Ą	AN	ALIRPHY WPS#	#5	
•	KEV 0							
<u>  oF  </u>	O REV	REV DATE	DES	DESCRIPTION		DRN	DRN CHK /	• •

≨	¥	4 KEO	$\neg$
ASME	SPEC.	CHWB	Т
		SERVICE NAME	Т
		LVL03 AHU SPOOLS	
		NRB	丁
QA/QC AC(	QA	WUSM RESEARCH BUILDING	
			ſ

REF.DWG. WUSM C-03
DRAWING NO.7TRACKING NO.
210140-A-UPL3-A01-03

4 ISOMETRIC VIEW SCALE: N.T.S.

	Murphy-PFFS-SPOOL-BOM						
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Style 107 EHP Pnt QuickVic Rigid Coupling					3
3	2	Std Wt SA234 WPB CS BW LR 90 Deg Ell					3
4	1	Sch 40 SA-53B CS ERW Pipe PE	BEV		12'-6"	150.000	3
5	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End		4"	4.000	3
1	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	4"	4.000	3



CONSTRUCTORS CHOMERS MECHANICAL MOUSTRIAL

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

	DIIW	OND	SIIIGI	PIII	311.0	,0111	
							APP
'ATION		E		COMMENTS	WPS#		X
<b>DRIENTATION</b>	TION	'D TIGHT	ATION	8	-		DRN
ORIE	TION	Ť Q.	٩TIO		URPHY		L

DRN CH	200		NECCEIPTION	050	L
₩PS#	MURPHY WPS#	NA M	NA	¥	<b>\$</b>
COMMEN		PWHT	HYDRO TEST	X-RAY H	SME
	ATION	SPOOL IDENTIFICATION	SPOOL		
노	'D TIG	BOLTS/CPLG'S/TH'D TIGHT	BOLTS		
	NOI	FITTING ORIENTATION	NILLII NILLII		
ITATI	ORIEN	FLANGE WEIGHT/ORIENTATION	FLANG	ACCEPT	AC

ARCH BUILDING		GAVAC AC	)
NRB HU SPOOLS			
VMH	SPEC.	ASME	۳
	¥	¥	۰
		•	
H/NO REV	•		

STC		REV	0
SPOC	S		lor 1
NRB AHU	CHWS	SHT/NO	
.VL03	NAME	QTY.	1

	!	•
0140	LVL03	AH
	SERVICE NAME	
JSM C-03		딩 딩
ACKING NO.	מדץ.	SHT/
4-11PI 3-401-04	1-04	

QA/QC A			
(2021 WIICH PECEABCH BIIII DING		LVL03 AHU SPOOLS	SERVICE NAME
/2021			

	3 5
13'-3 <b>¼</b> *	
<b>4</b>	

ISOMETRIC VIEW SCALE: N.T.S.