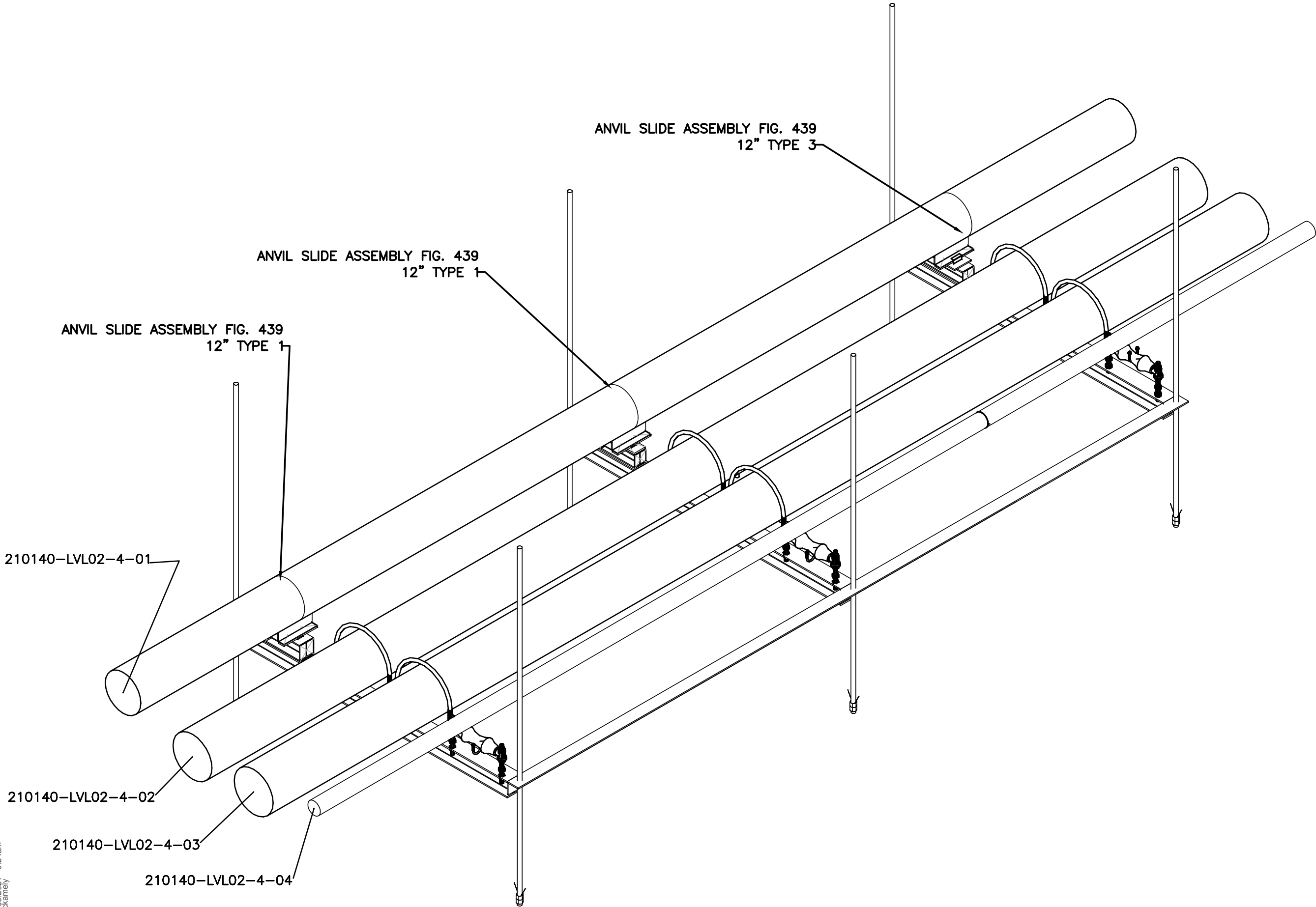


NOTE: HWS/R NOT SHOWN ON SIDE VIEW.

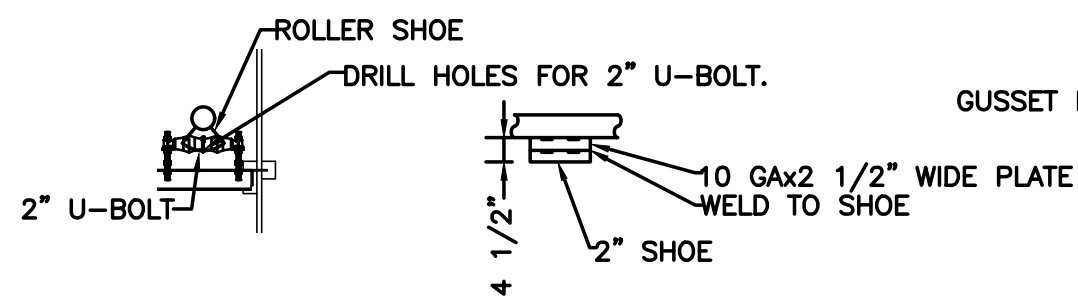
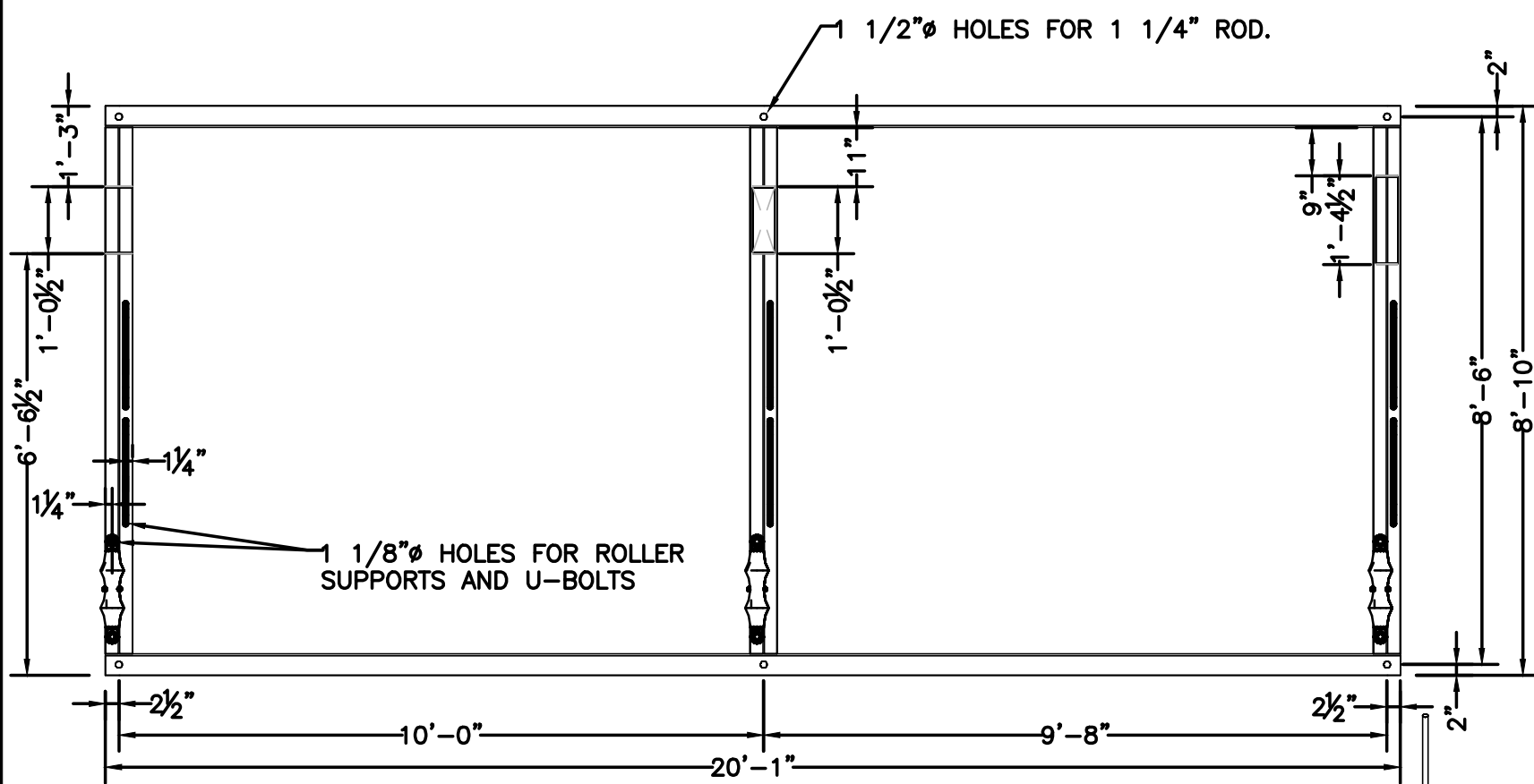
DRN JMM		5/26/2021	WUSM RESEARCH BUILDING										QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>			
CHK			NRB														FITTING ORIENTATION				<input type="checkbox"/>			
APP			LEVEL 02 NRB RACK														BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>			
JOB NO.		210140	SERVICE NAME														SPOOL IDENTIFICATION				<input type="checkbox"/>			
REF.DWG.													SPEC.		ASME		X-RAY		HYDRO TEST		PWHT		COMMENTS	
													NA		NA		NA		NA		NA		MURPHY WPS#	
DRAWING NO./TRACKING NO. 201140-LVL02-4		QTY. 1		SHT/NO 1 of 3		REV 0		0																
								REV		DATE		DESCRIPTION		DRN		CHK		APP						



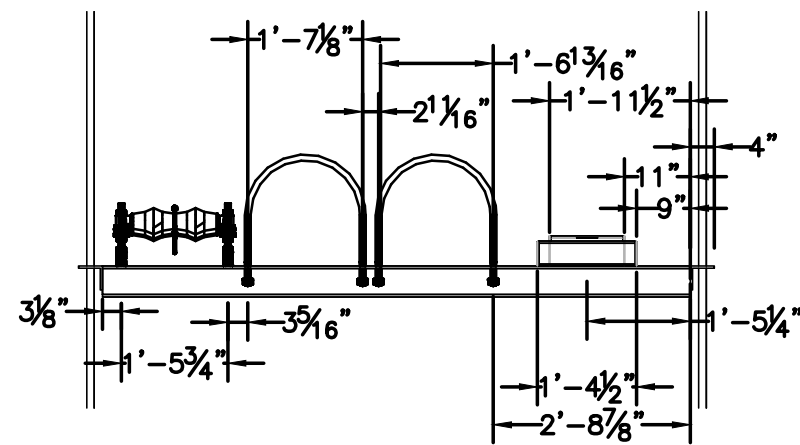
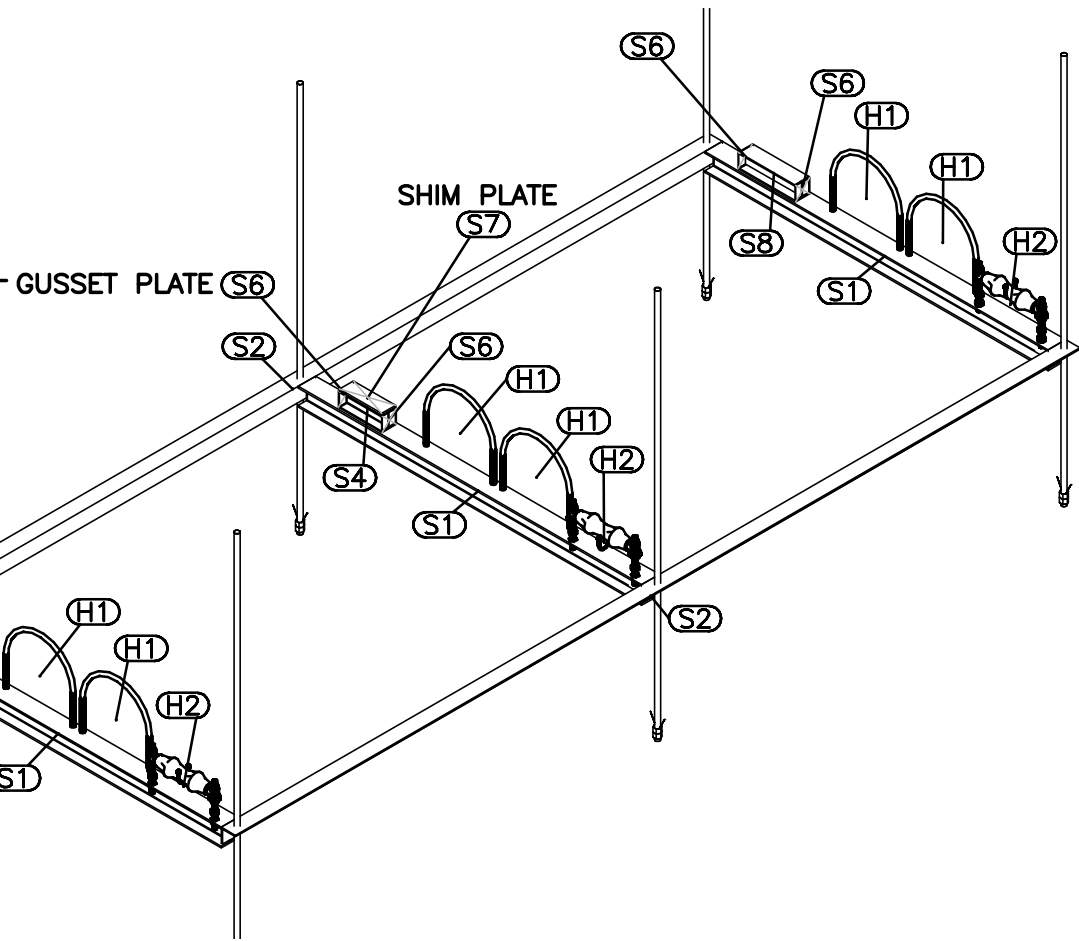
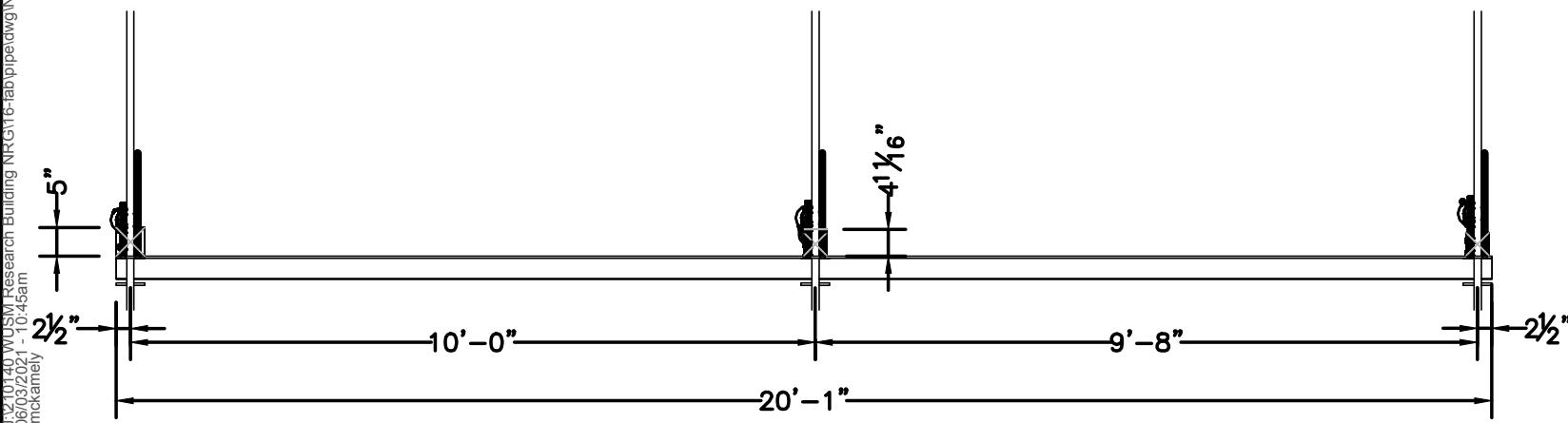
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DRN JMM	5/26/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT		<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION			
		CHK				<input type="checkbox"/> FITTING ORIENTATION				<input type="checkbox"/> BOLTS/CPLGS/TH'D TIGHT	<input type="checkbox"/> SPOOL IDENTIFICATION
APP		LEVEL 02 NRB RACK									
JOB NO.	210140	SERVICE NAME				SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS
REF.DWG.						NA	NA	NA	NA	NA	MURPHY WPS#
DRAWING NO./TRACKING NO.		QTY.	SHT/NO	REV	DESCRIPTION						
201140-LVL02-4		1	2 of 3	0	REV	DATE	DRN	CHK	APP		



ROLLER PIPE DETAIL FOR SHIPPING



BOM-STEEL

Item No	Order	Description	Qty	Size	Steel L
H1	Fig137	Fig.137 U-Bolt (4)-Nut Black	6	18	
H2	B3122-14 PLN	B3122 Adjustable Roller Support - PLN	3	14	
H3	B3122-20 PLN	B3122 Adjustable Roller Support - PLN	1	20	
S1	W5x19	ASTM A36 CS Wide Flange	3	W5x19	98"
S2	L4x4x3/8	ASTM A36 CS Equal Angle	2	L4x4x3/8	241"
S3	W5x16	ASTM A36 CS Wide Flange	1	W5x16	12"
S4	W4x13	ASTM A36 CS Wide Flange	1	W4x13	12"
S8	W4x13	ASTM A36 CS Wide Flange	1	W4x13	16"
S5		ASTM A36 CS Plate 1/4" Thick	2	5x5x1/4	
S6		ASTM A36 CS Plate 1/4" Thick	4	4x4x1/4	
S7		ASTM A36 CS Plate 1/2" Thick	1	4x12x1/2	

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

WUSM RESEARCH BUILDING	5/26/2021	DRN JMM
NRB		CHK
LEVEL 02 NRB RACK		APP
SERVICE NAME	JOB NO. 210140	REF.DWG.
QTY. 1	SHT/NO 3 OF 3	DRAWING NO./TRACKING NO.
201140-LVL02-4	REV 0	



Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	29'-9 7/8"	357.875	12

DRN JMM		6/1/2021		WUSM RESEARCH BUILDING			
CHK				NRB			
APP				LVLO2 RACKS			
JOB NO.		210140		SERVICE NAME			
REF.DWG.							
DRAWING NO./TRACKING NO.		QTY.		SHT/NO		REV	
210140-LVLO2-4-01		1		1 of 1		0	

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

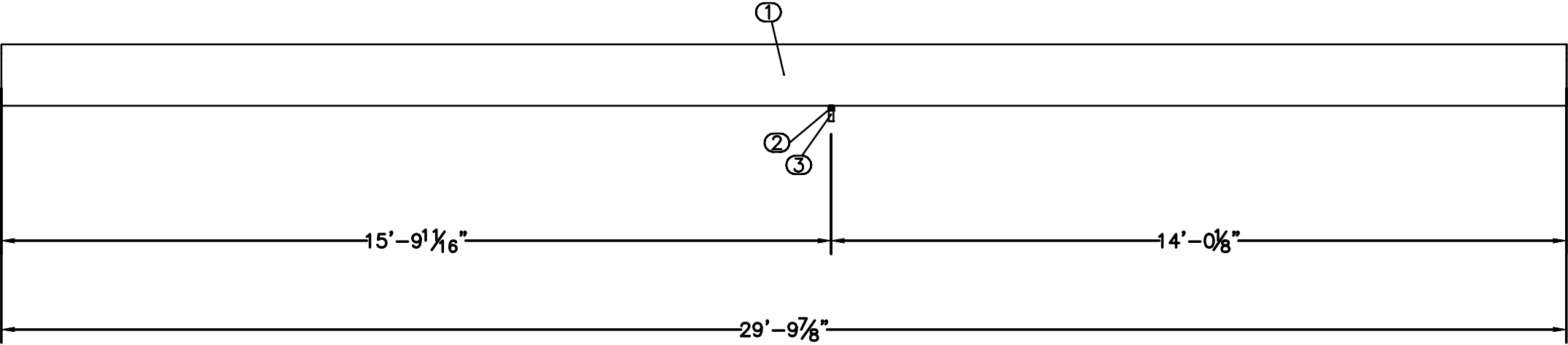
SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS
NA	NA	NA	NA	NA	MURPHY WPS#
0					
REV	DATE	DESCRIPTION			CHK APP



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DRN JMM	6/1/2021	WUSM RESEARCH BUILDING NRB LVLO2 RACKS		
CHK				
APP				
JOB NO.	210140			
REF.DWG.		SERVICE NAME		
DRAWING NO./TRACKING NO.		QTY.	SHT/NO	REV
210140-LVL02-4-02		1	1 of 1	0



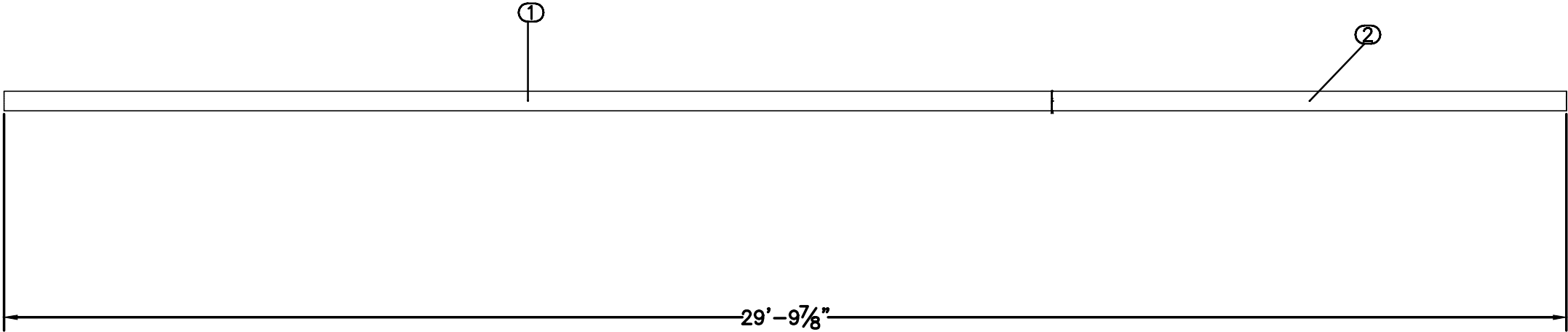
Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	1	No.647 TT Dielectric Transition Fitting					3/4
2	1	3000# FS Thread-0-Let			1 1/16"	1.063	3/4x14
1	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	29'-9 7/8"	357.875	14

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DRN JMM CHK APP JOB NO. 210140 REF.DWG. DRAWING NO./TRACKING NO. 210140-LVL02-4-03	WUSM RESEARCH BUILDING NRB LVL02 RACKS				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION FITTING ORIENTATION BOLTS/CPLG'S/TH'D TIGHT SPOOL IDENTIFICATION							
	SERVICE NAME				SPEC.				HYDRO TEST				COMMENTS			
					NA				NA				NA			
					0								MURPHY WPS#			
					REV				DATE				DRN CHK APP			



Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	4
2	1	XH SA-53B CS SMLS Pipe	BEV	BEV	9'-9 3/4"	117.747	4

DRN

JMM

CHK

APP

JOB NO.

210140

REF.DWG.

DRAWING NO./TRACKING NO.

210140-LVL02-4-04

6/1/2021

QTY.

1

SHT/NO

1 of 1

REV

0

WUSM RESEARCH BUILDING

NRB

LVL02 RACKS

SERVICE NAME

FLANGE WEIGHT/ORIENTATION

☐

FITTING ORIENTATION

☐

BOLTS/CPLG'S/TH'D TIGHT

☐

SPOOL IDENTIFICATION

☐

QA/QC ACCEPT

SPEC.

NA

ASME

NA

X-RAY

NA

HYDRO TEST

NA

PWHT

NA

COMMENTS

MURPHY WPS#

REV

0

DATE

DESCRIPTION

DRN

CHK

APP

MURPHY

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