

COATINGS

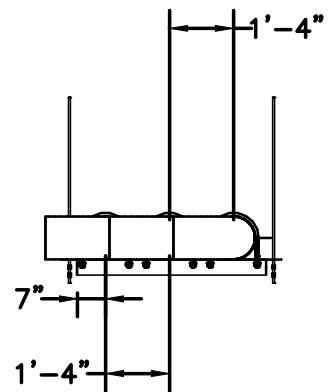
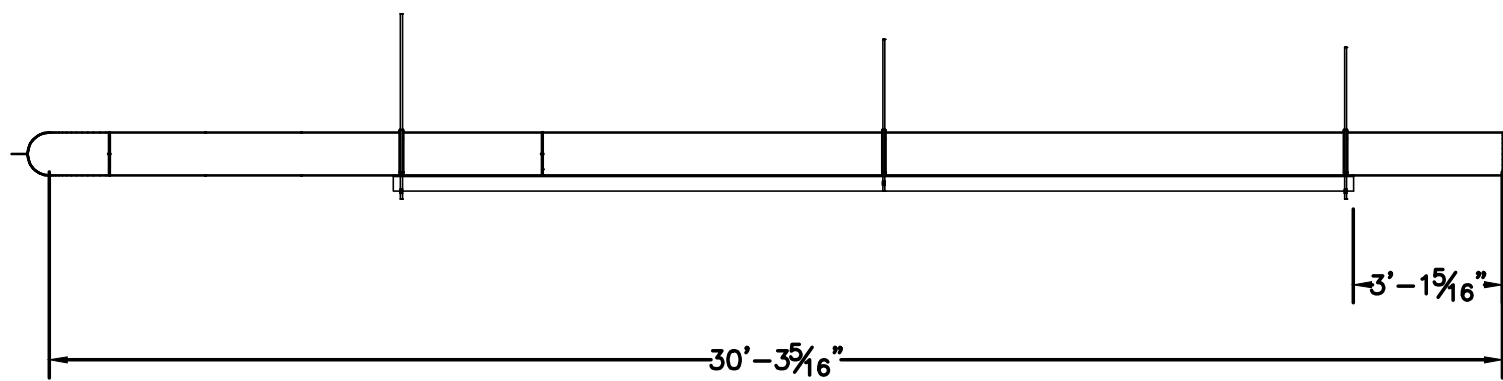
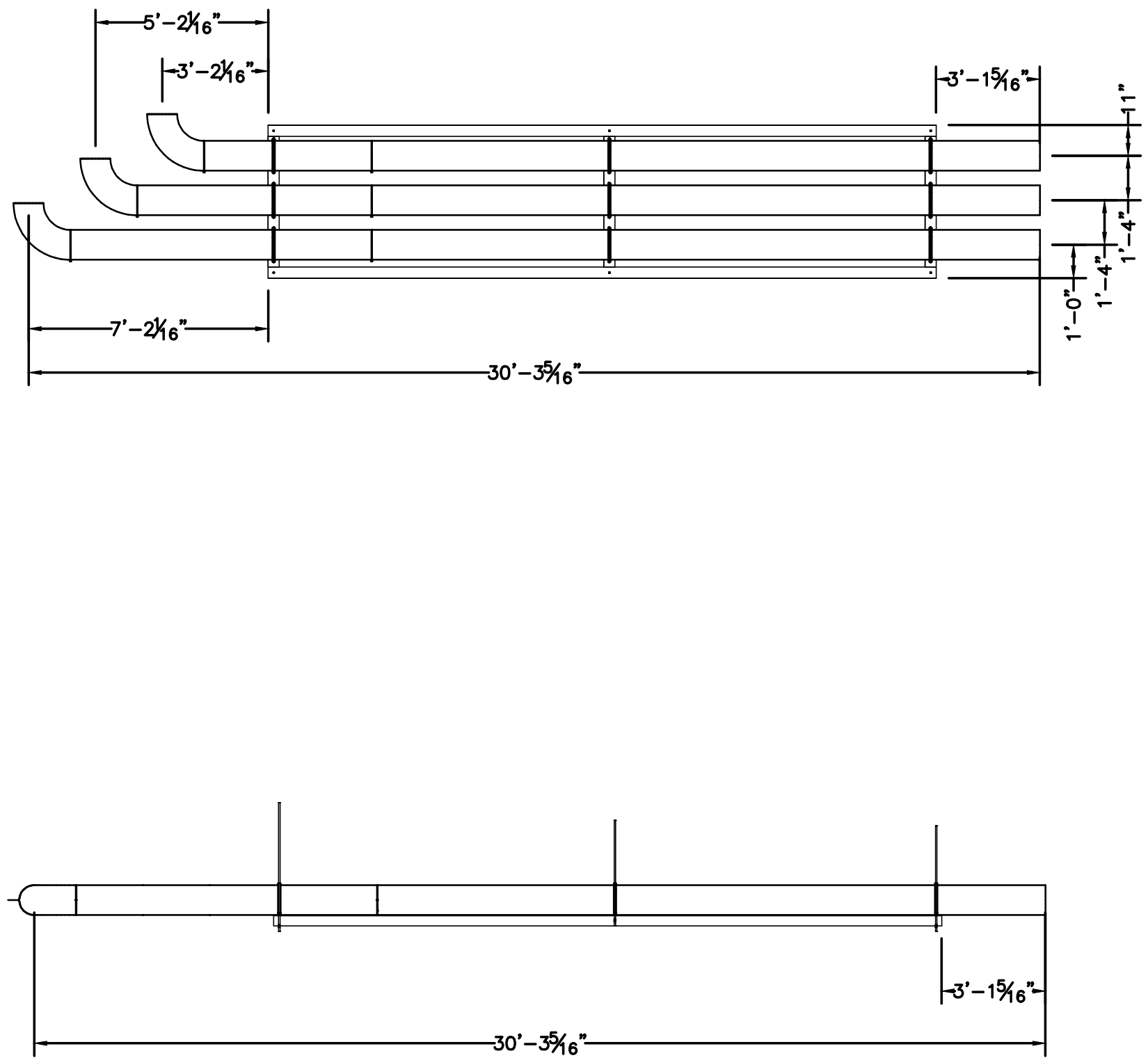
PRIMER ☒

COLOR: RED

PAINT ☐

COLOR: N/A

GAL'V ☐



DRN	JMM	3/13/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION			
CHK			NRB CUP				X-RAY				FITTING ORIENTATION			
APP			PIPE RACKS				NA				BOLTS/CPLG'S/TH'D TIGHT			
JOB NO.	210140		SERVICE NAME				ASME				SPOOL IDENTIFICATION			
REF.DWG.							SPEC.				HYDRO TEST			
DRAWING NO./TRACKING NO.			QTY.				NA				PWHT			
210140-A-UPL1-2			1				REV				NA			
			SHT/NO				DATE				MURPHY WPS#			
			1 of 4				DESCRIPTION				DRN			
			REV				0				CHK			
			0								APP			

MURPHY
SINCE 1937

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

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

COATINGS

PRIMER

☒

COLOR:

RED

PAIN

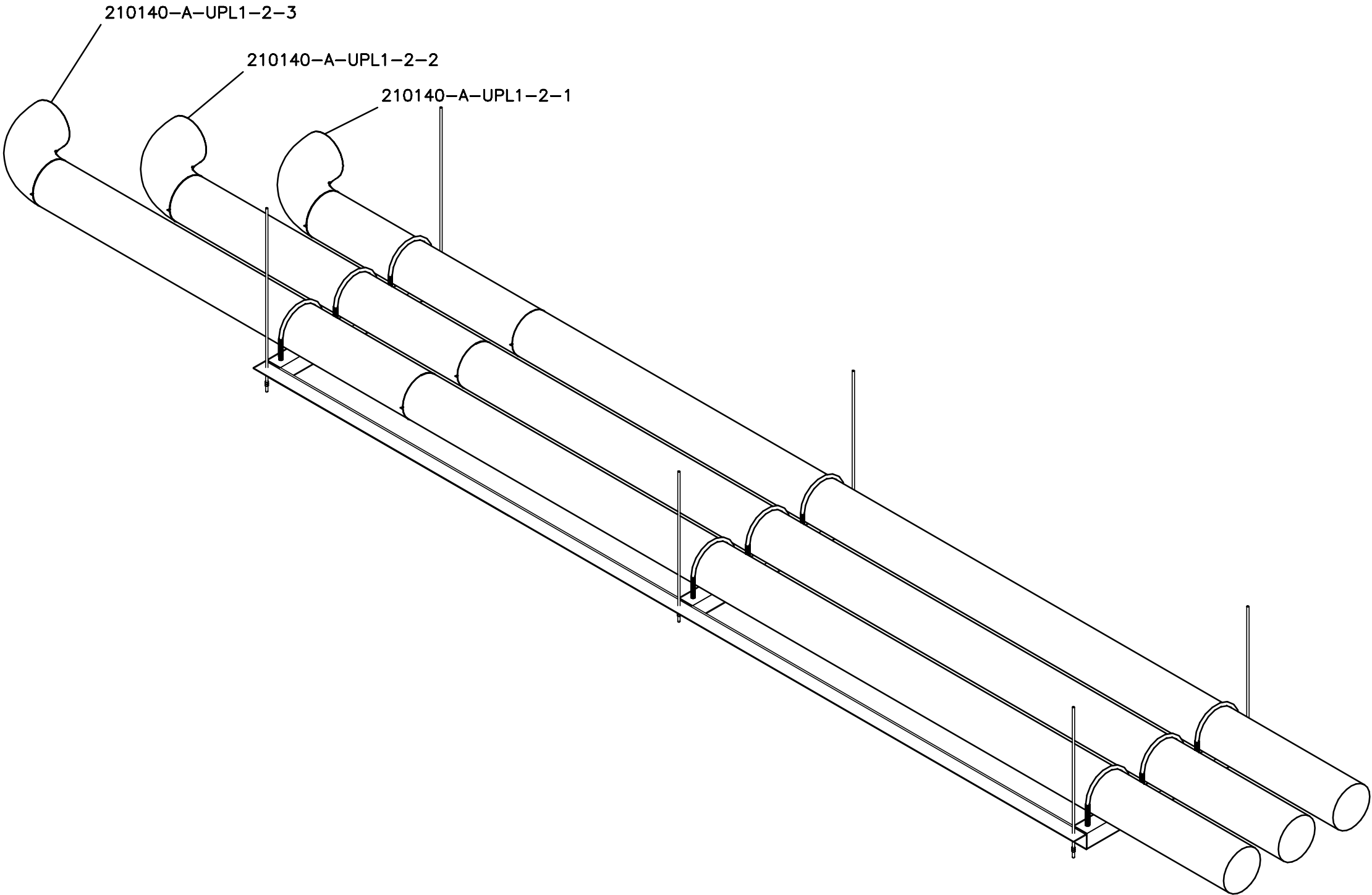
☐

COLOR:

N/A

GAL'V

☐



MURPHY

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

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

DRN JMM		3/13/2021		WUSM RESEARCH BUILDING				QA/QC ACCEPT				<div>FLANGE WEIGHT/ORIENTATION <input type="checkbox"/></div> <div>FITTING ORIENTATION <input type="checkbox"/></div> <div>BOLTS/CPLG'S/TH'D TIGHT <input type="checkbox"/></div> <div>SPOOL IDENTIFICATION <input type="checkbox"/></div>											
CHK																							
APP																							
JOB NO.		210140																					
REF.DWG.				SERVICE NAME				SPEC.		ASME		X-RAY		HYDRO TEST		PWHT		COMMENTS					
								NA		NA		NA		NA		NA		MURPHY WPS#					
DRAWING NO./TRACKING NO. 210140-A-UPL1-2				QTY. 1		SHT/NO 2 of 4		REV 0															
										REV		DATE		DESCRIPTION				DRN		CHK		APP	

COATINGS

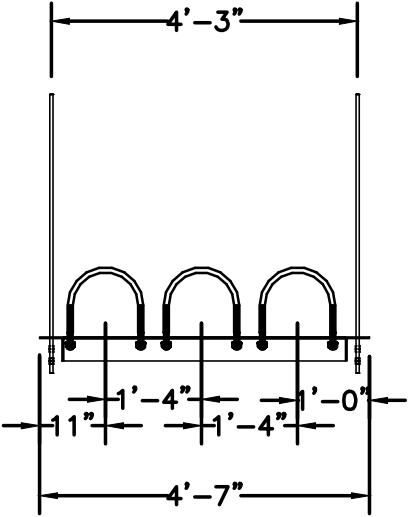
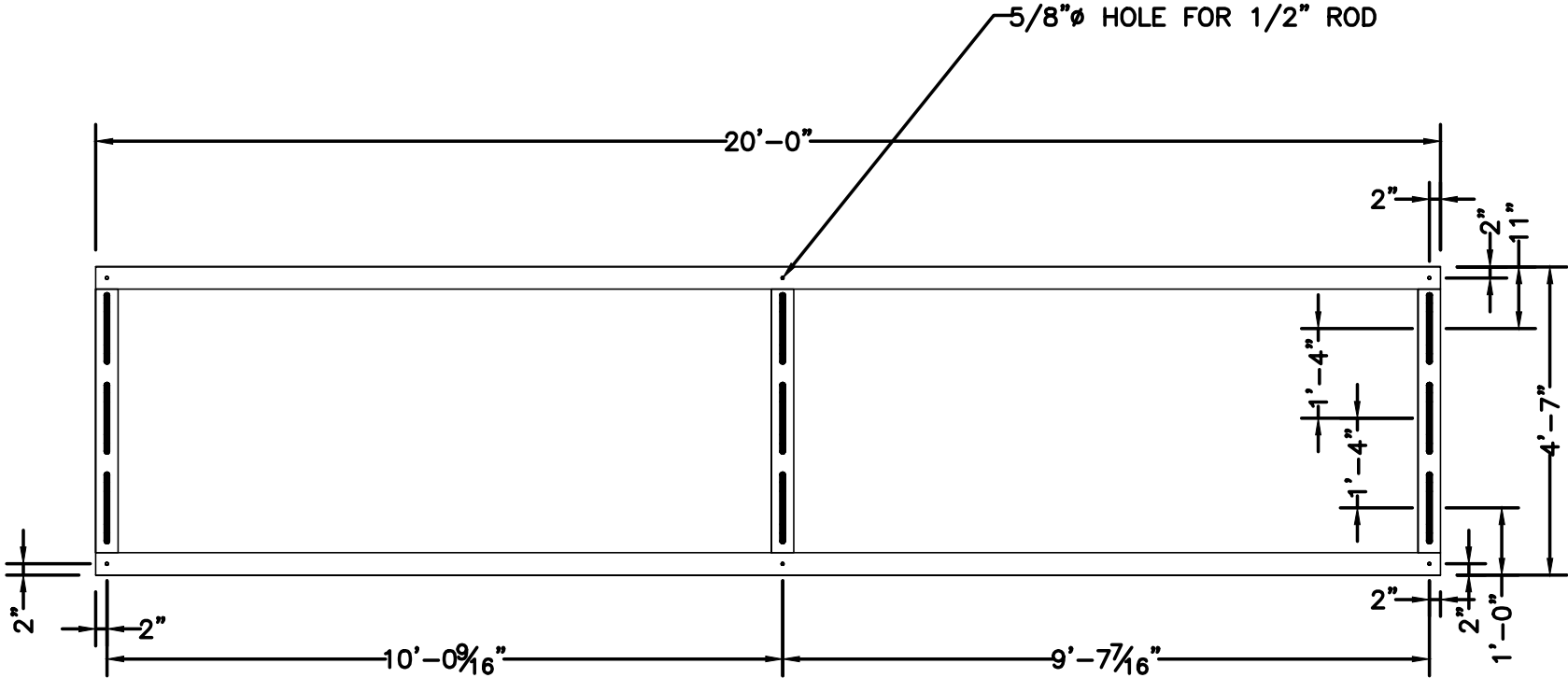
PRIMER ☒

COLOR: RED

PAIN ☐

COLOR: N/A

GAL'V ☐



MURPHY

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

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

DRN JMM		3/13/2021		WUSM RESEARCH BUILDING				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/>	
CHK				NRB CUP								FITTING ORIENTATION		<input type="checkbox"/>	
APP				PIPE RACKS								BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/>	
JOB NO.		210140										SPOOL IDENTIFICATION		<input type="checkbox"/>	
REF.DWG.				SERVICE NAME				SPEC.		ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS	
								NA		NA	NA	NA	NA	MURPHY WPS#	
DRAWING NO./TRACKING NO.				QTY.		SHT/NO		REV							
210140-A-UPL1-2				1		3 OF 4		0							
REV		DATE		DESCRIPTION				DRN		CHK		APP			
0															

COATINGS

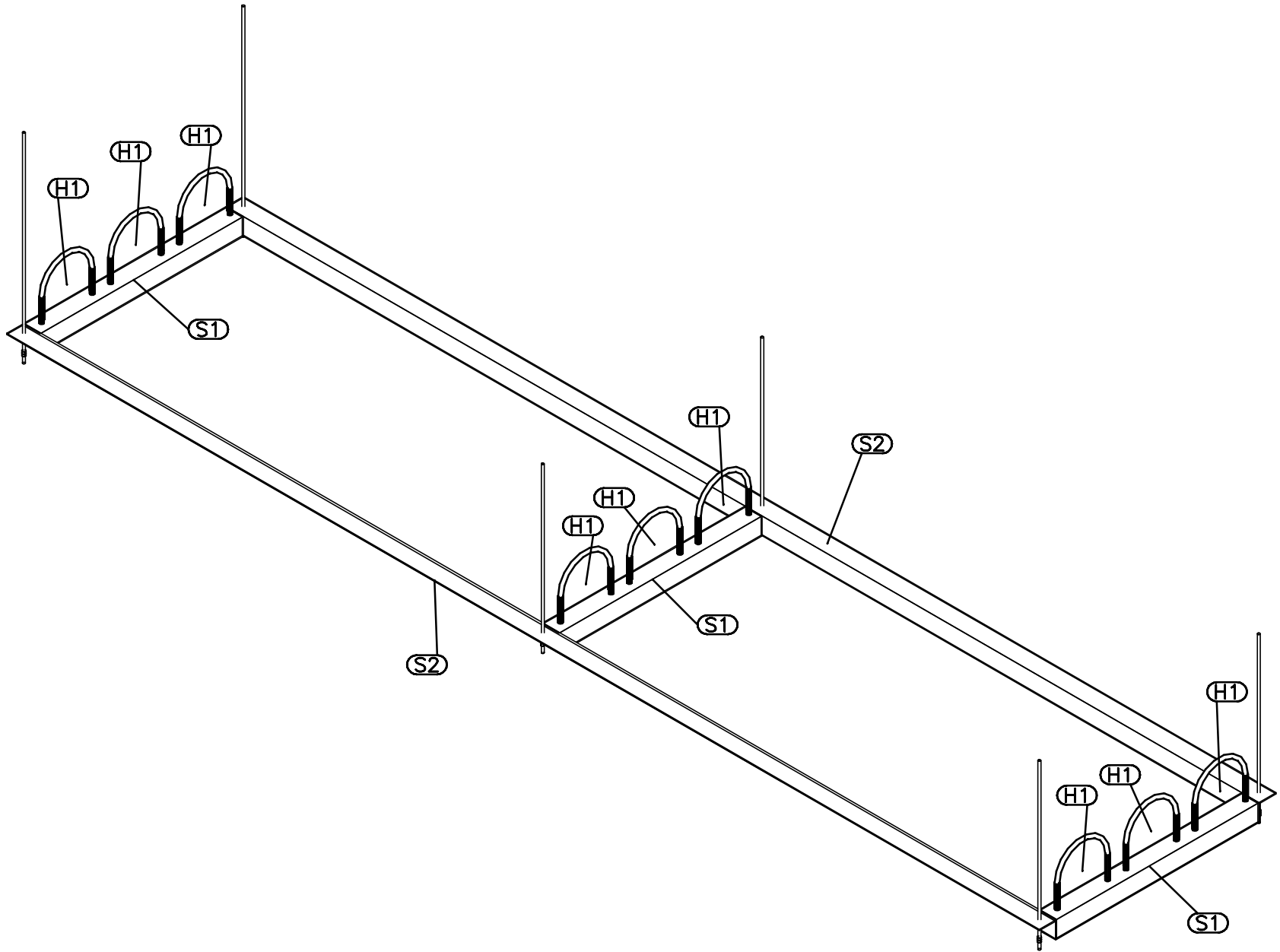
PRIMER ☒

COLOR: RED

PAINT ☐

COLOR: N/A

GAL'V ☐



BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	Fig137	Fig.137 U-Bolt (4)-Nut Black	9	10	
S1	L4x4x1/4	ASTM A36 CS Equal Angle	3	L4x4x1/4	47°
S2	L4x4x1/4	ASTM A36 CS Equal Angle	2	L4x4x1/4	240°

MURPHY

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

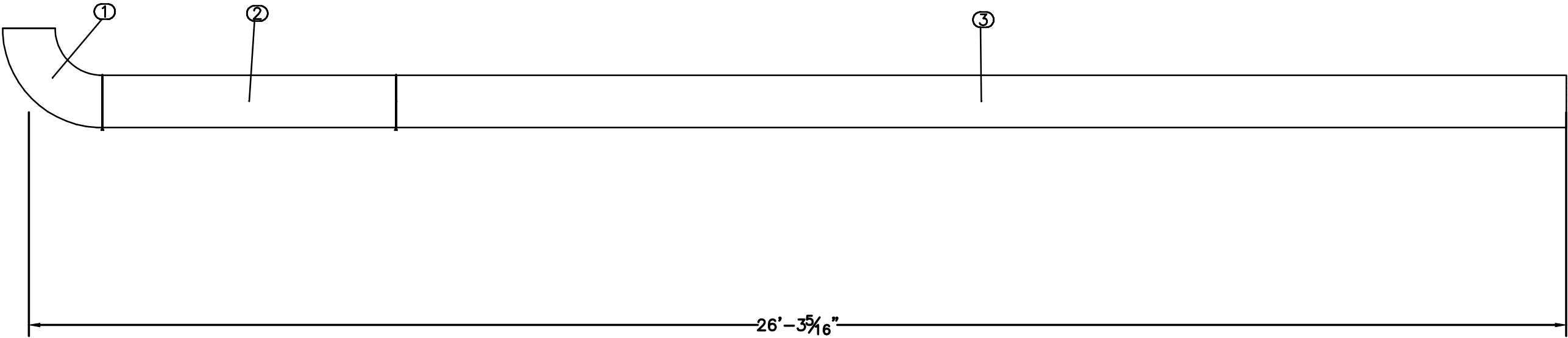
1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com

<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 JMM	3/13/2021	WUSM RESEARCH BUILDING	
CHK		NRB CUP	
APP		PIPE RACKS	
JOB NO.	210140	SERVICE NAME	
REF.DWG.			
DRAWING NO./TRACKING NO.	QTY.	SHT/NO	REV
210140-A-UPL1-2	1	4 of 4	0



Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Std Wt SA234 WPB CS BW LR 90 Deg El					10
2	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	5'-0 1/16"	60.089	10
3	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	20'-0"	240.000	10

DRN JMM 3/13/2021

CHK

APP

JOB NO. 210140

REF.DWG.

DRAWING NO./TRACKING NO.
210140-A-UPL1-2-1

WUSM RESEARCH BUILDING
NRB CUP

SERVICE NAME
UPL1-2 RACK

QTY. 1 SHT/NO 1 OF 1 REV 0

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

0 REV DATE DESCRIPTION DRN CHK APP

MURPHY
CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL
1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com




Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Std Wt SA234 WPB CS BW LR 90 Deg Ell					10
2	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	7'-0 1/16"	84.089	10
3	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	20'-0"	240.000	10

DRN JMM	3/13/2021	WUSM RESEARCH BUILDING NRB CUP		SERVICE NAME UPL1-2 RACK	QTY. 1	SHT/NO 1 of 1	REV 0
CHK							
APP							
JOB NO.	210140						
REF.DWG.		DRAWING NO./TRACKING NO. 210140-A-UPL1-2-2					

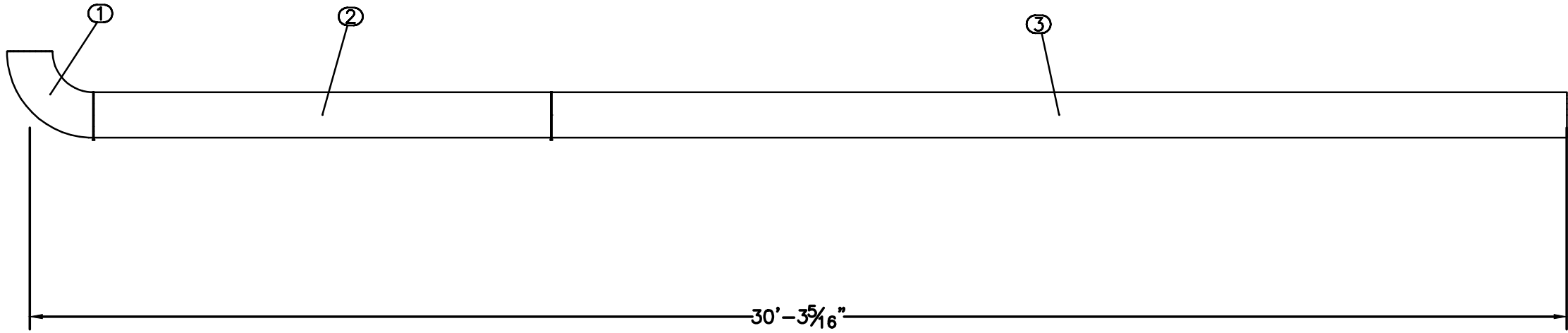
QA/QC ACCEPT		FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/>
		FITTING ORIENTATION		<input type="checkbox"/>
		BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/>
		SPOOL IDENTIFICATION		<input type="checkbox"/>

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



CONSTRUCTORS • ENGINEERS • MECHANICAL • INDUSTRIAL

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




Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Std Wt SA234 WPB CS BW LR 90 Deg El					10
2	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	9'-0 1/16"	108.089	10
3	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	20'-0"	240.000	10

DRN JMM	3/13/2021	WUSM RESEARCH BUILDING		UPL1-2 RACK		DRAWING NO./TRACKING NO.	
CHK		NRB CUP				210140-A-UPL1-2-3	
APP						QTY. 1 SHT/NO 1 of 1 REV 0	
JOB NO.	210140			SERVICE NAME			
REF.DWG.							

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			DRN
					CHK
					APP



CONSTRUCTORS • ENGINEERS • MECHANICAL • INDUSTRIAL

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