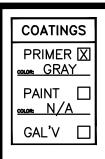


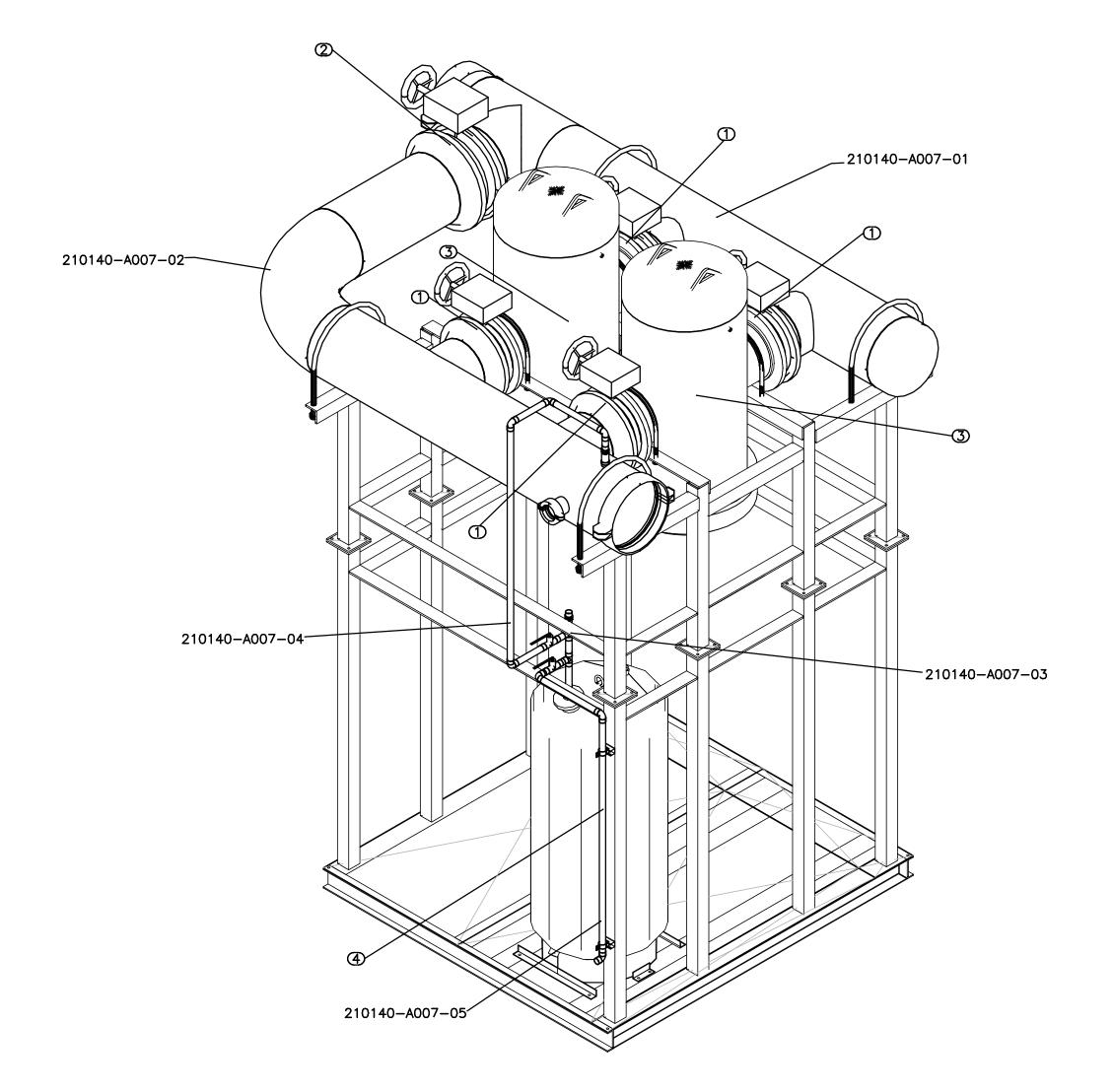
O S В WUSM RESEARCH BUILIDIN NRB
CHWR AS-01A/AS-01B



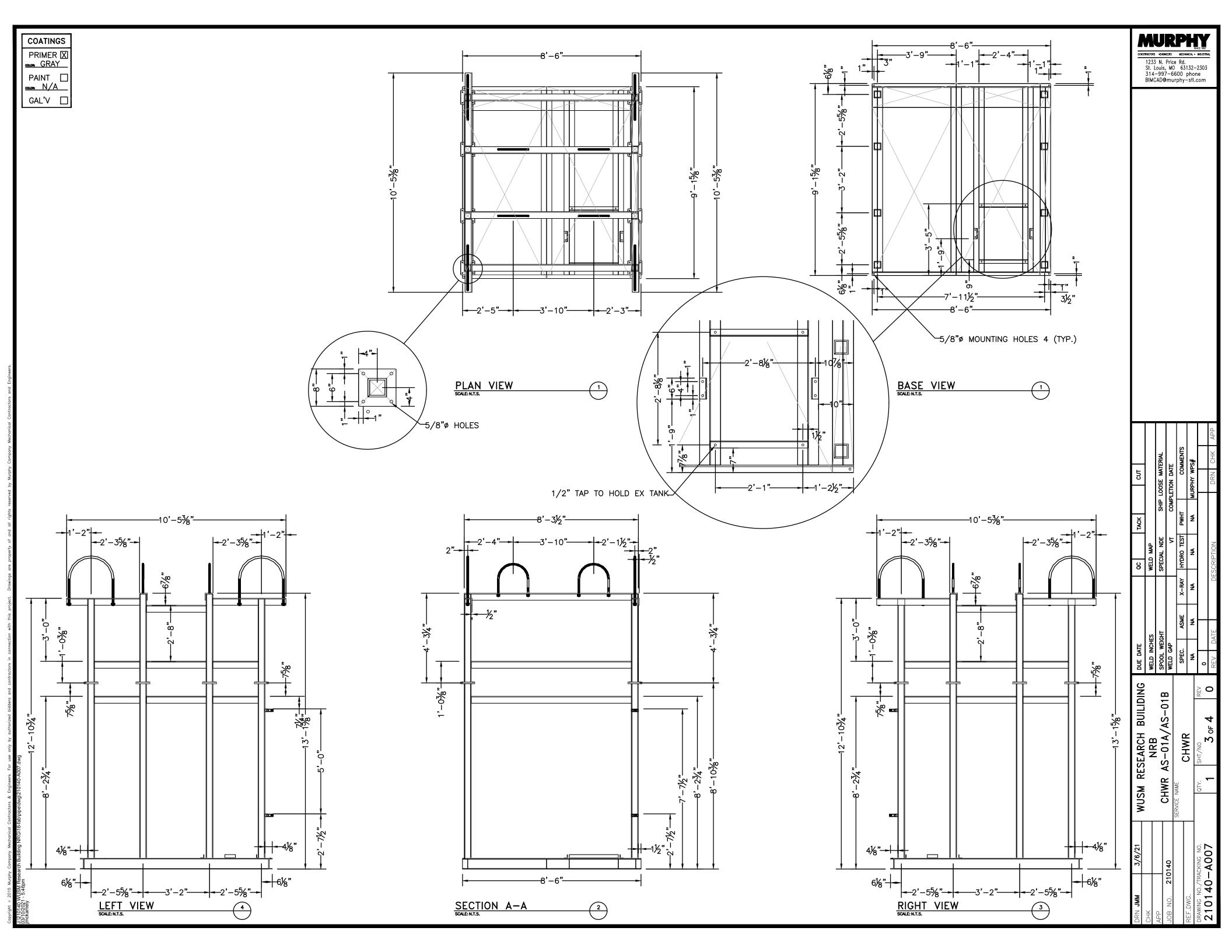
		Murphy-PFFS-SPOOL-	-BC	MC			
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	4	LD-1000 Butterfly Valve					16
2	1	LD-1000 Butterfly Valve					20
4	1	BG EXPANSION TANK					
3	2	AS-1A/1B BG_Coalescing Removal Separator-Air_Dirt-CRS_3300 GPM_16in Flanged_CRS					
5	8	150lb CS Flange Cap Screw Set					16 (1x3-1/4)
6	2	150lb CS Flange Cap Screw Set					20 (1-1/8x4)

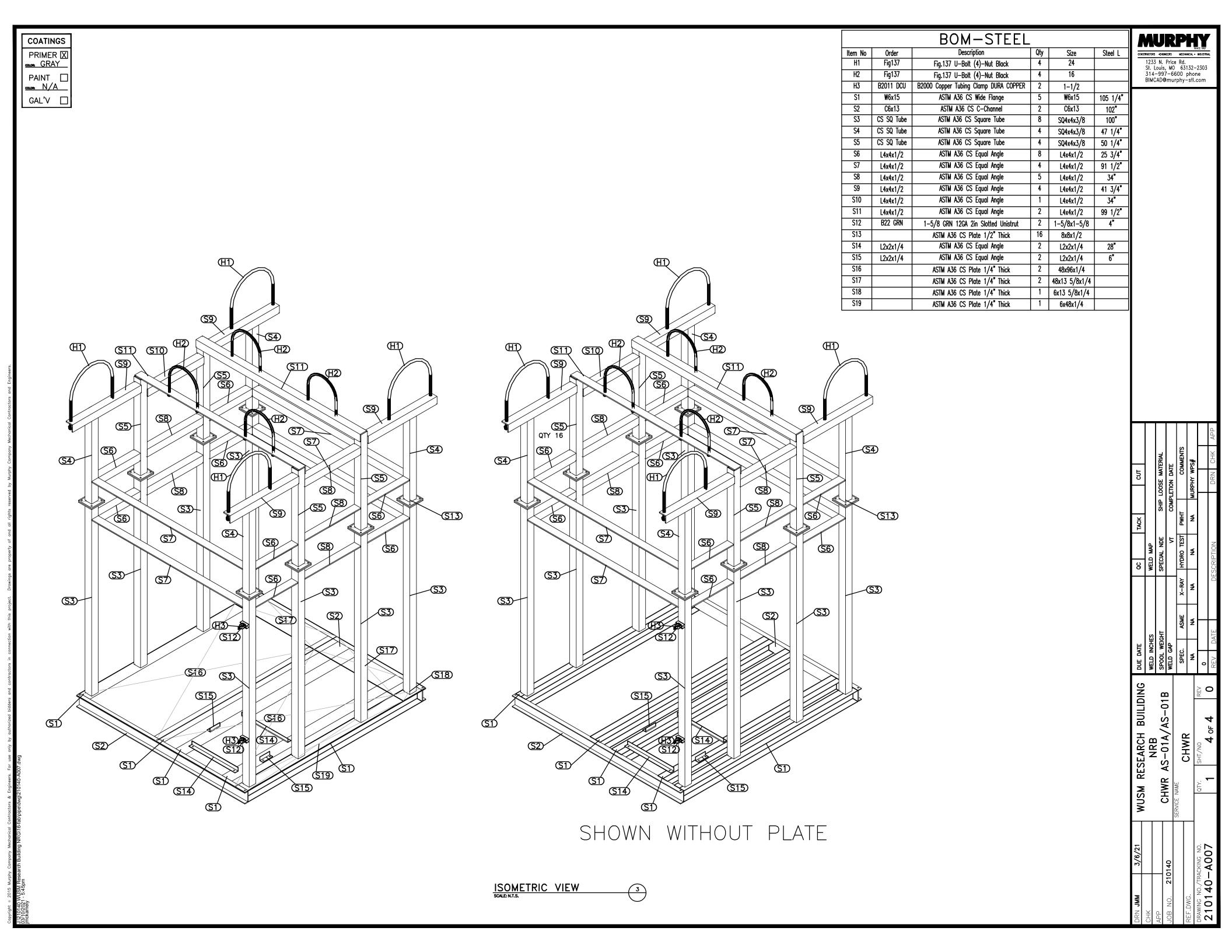
CONSTRUCTORS **CONTROL*

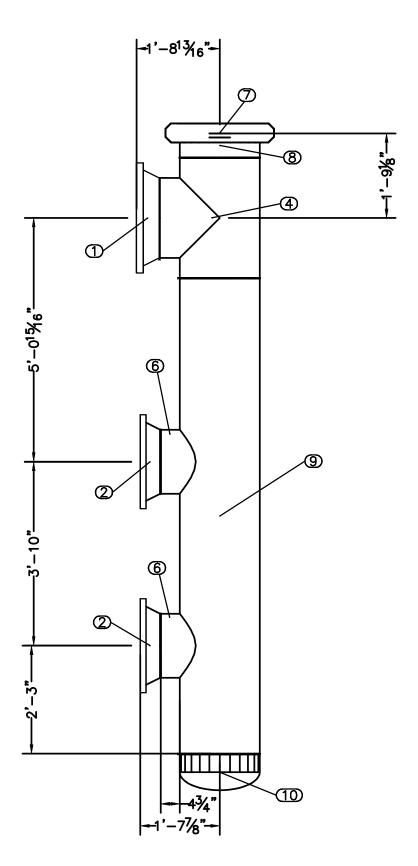
1233 N. Price Rd.
St. Louis, MO 63132–2303
314–997–6600 phone
BIMCAD@murphy-stl.com



			3	WEI D INCHES	٧.		WELD MAP				
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	OV GMHC	AV_01/ / / / LO1/		SPOOL WEIGHT	Ę		SPECIAL NUE	ב ה			
210140				WELD GAP			5	COMP	COMPLETION DATE	<u>ا</u>	
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Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
4	1	Std Wt SA234 WPB CS BW TEE					20
6	2	Sch 40 SA-53B CS ERW Pipe Saddle			4 3/4"	4.750	20x16
2	2	150lb RF Sch 40 Bore SA105 CS WN Flg					16
1	1	150lb RF Sch 40 Bore SA105 CS WN Flg					20
7	1	Style W07 Rigid Coupling					20
10	1	Std Wt SA234 WPB CS BW Cap					20
8	1	Std Wt SA-53B CS ERW Pipe PE	Grooved End	BEV	6"	6.000	20
9	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	9'-10 13/16"	118.817	20

MURPHY

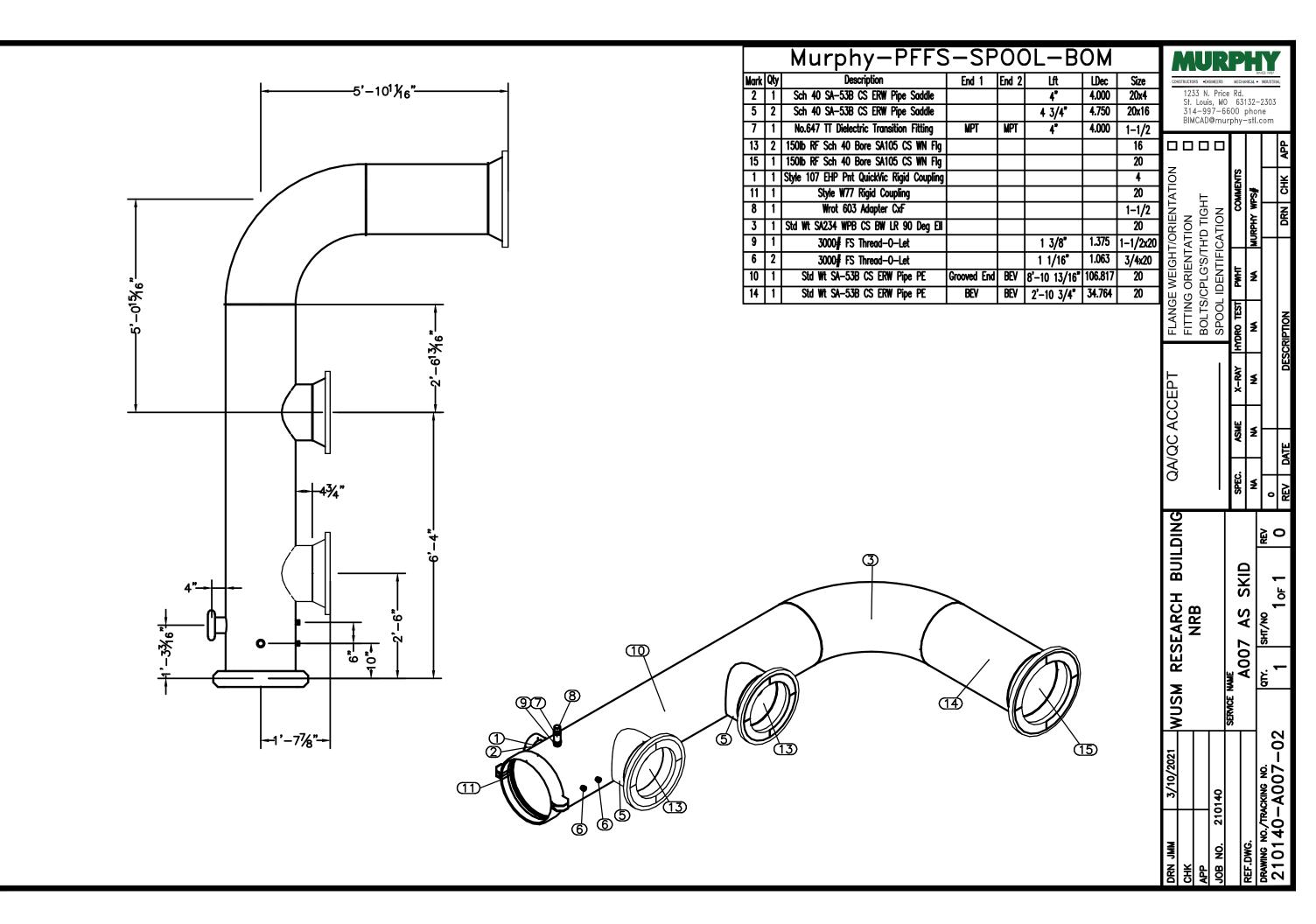
1233 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy=stl.com

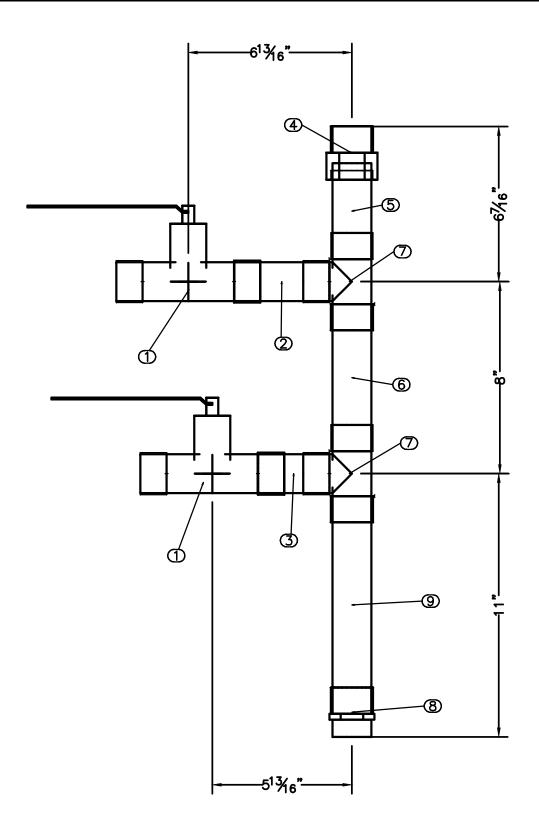
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210140-	210140-A007-01		1	1 or 1	0





Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
7	2	Wrot 611 CxCxC Tee					1-1/
1	2	S-585-70 Ball Valve					1-1/
8	1	Wrot 604 Adapter CxM					1-1/
4	1	Wrot 603 Adapter CxF					1-1/
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4"	3.973	1-1/
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	3"	2.974	1-1/
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4"	4.000	1-1/
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 1/8"	6.123	1-1/
9	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	9 1/16"	9.062	1-1/

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1233 N. Price Rd. 12.33 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy-stl.com

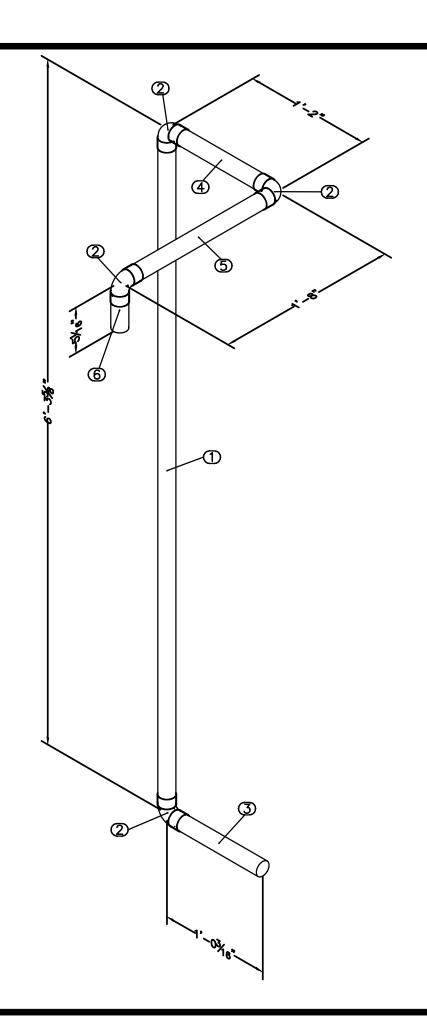
FLANG	FLANGE WEIGHT/ORIENTATION	/ORIENT	ATION		
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WUSM RESEARCH BUILDING NRB <u>ي</u> 0 SKID AS SERVICE NAME
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REF.DWG.
DRAWING NO./TRACKING NO.
210140—A007—

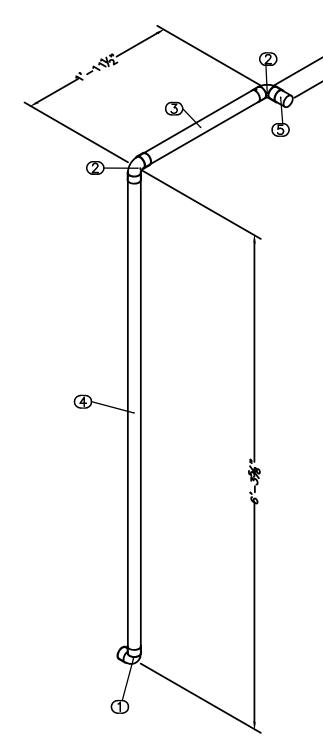


Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	4	Wrot 607 90 Deg Ell CxC					1-1/2
1	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6'-1 9/16"	73.575	1-1/2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	11 3/16"	11.184	1-1/2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	11 15/16"	11.940	1-1/2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-5 15/16"	17.936	1-1/2
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4"	4.000	1-1/2

	MURPHY
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CONSTRUCTORS *ENGINEERS MECHANICAL * INDUSTRIAL

3/10/2021 WIICM DECEAE	WILCL	1 05	SEABCH BILL DING		OA/OC	QA/QC ACCEPT	FLANC	SE WEIGHT/	FLANGE WEIGHT/ORIENTATION		
		<u>i</u> 2	SEARCH BOIL) }	 	FITTIN	FITTING ORIENTATION	NOIL		St. 31 BIN
			אצ				BOLTS	BOLTS/CPLG'S/TH'D TIGHT	'D TIGHT		Loui 4–99 ICAD
10140							- SPOO	SPOOL IDENTIFICATION	ATION		97-6
	SERVICE NAME	AME			F	r		± m			3600
	T	VOO4		^ት	SPEC.	ASME X-KAT	A-KAT HTURO IESI PWHI		COMMENIS)
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		Murphy-Pf	FFS-	SPOC)L-B(MC	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Wrot 607 90 Deg Ell CxC					1-1/2
2	2	Wrot 607 90 Deg Ell CxC					1-1/2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-9 7/16"	21.436	1-1/2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6'-1 9/16"	73.554	1-1/2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2 5/8"	2.656	1-1/2

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1233 N. Price Rd.

9	QA/QC ACCEPT	CCEPT	FLANG	E WEIGHT	FLANGE WEIGHT/ORIENTATION	□ NC	
			FITIN	FITTING ORIENTATION	VOITA		123 St. 314 BIM
			BOLTS	BOLTS/CPLG'S/TH'D TIGHT	H'D TIGHT		3 N. Louis I–99 CAD©
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