HANDRAIL ISOMETRIC - VIEW

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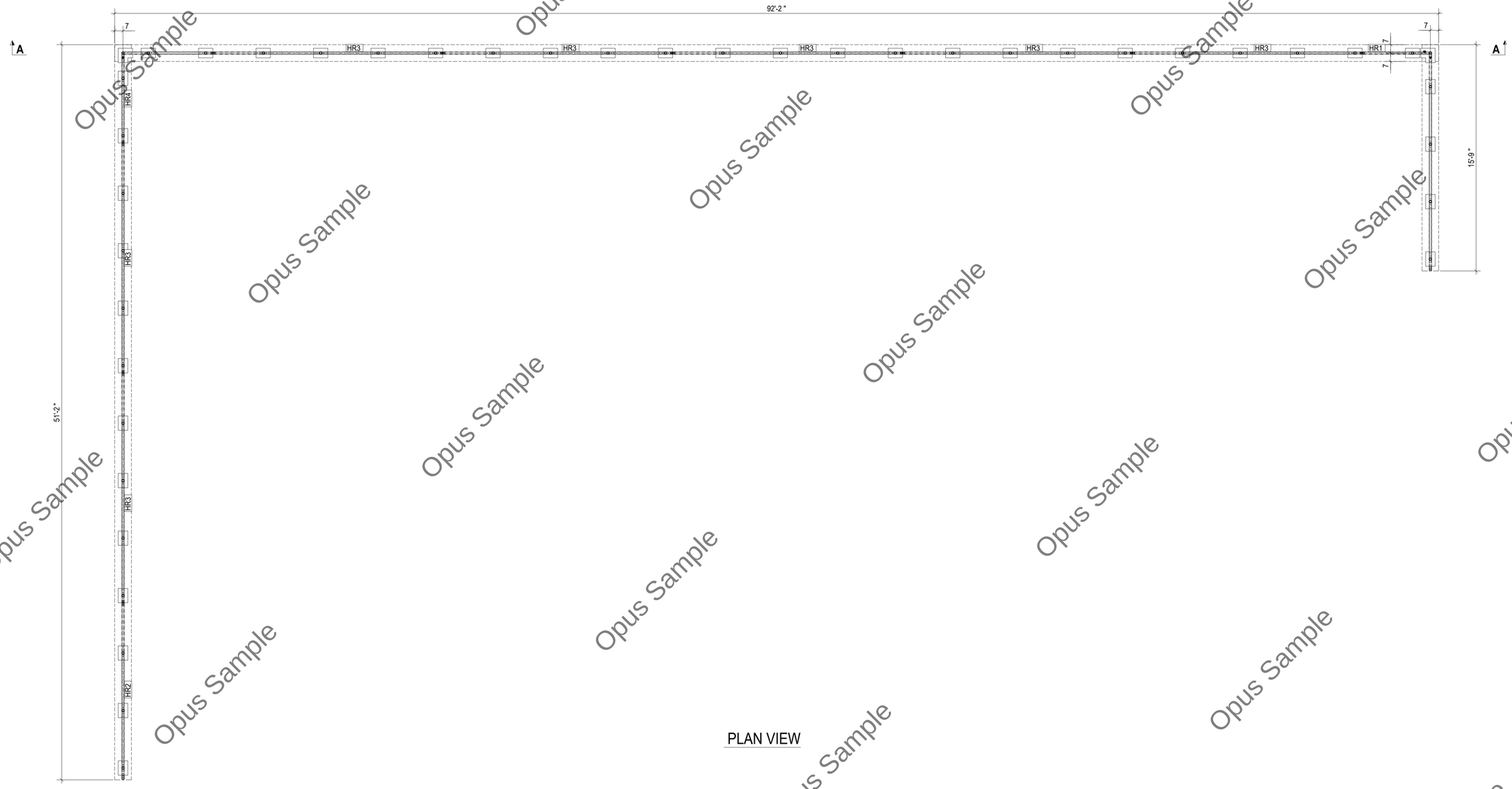
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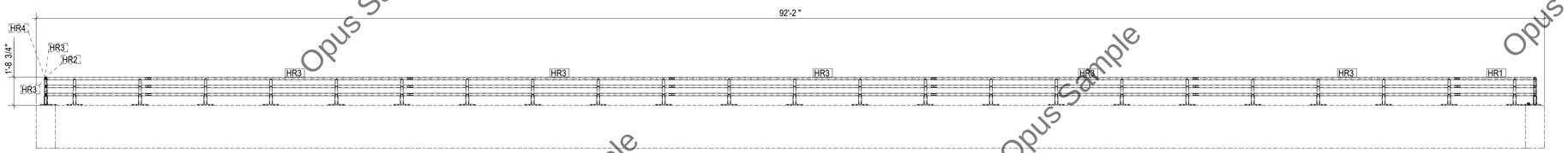
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Opus Sample



PLAN VIEW



SECTION A-A

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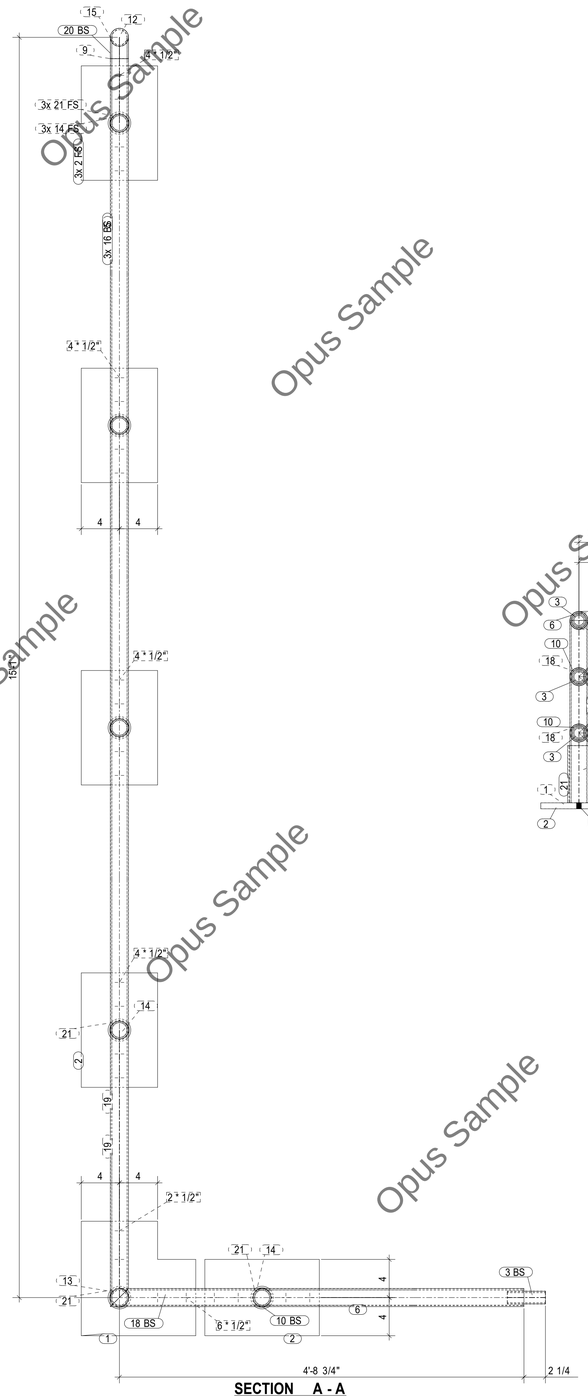
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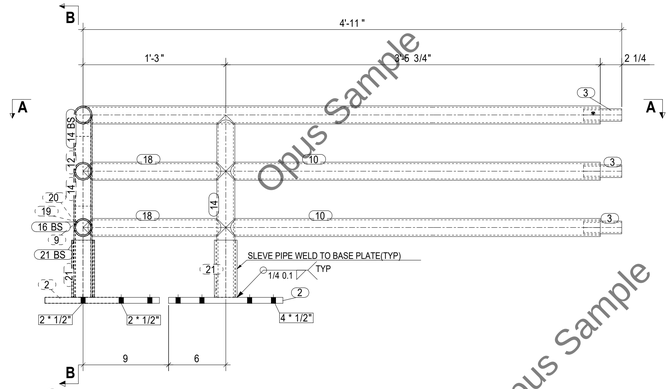
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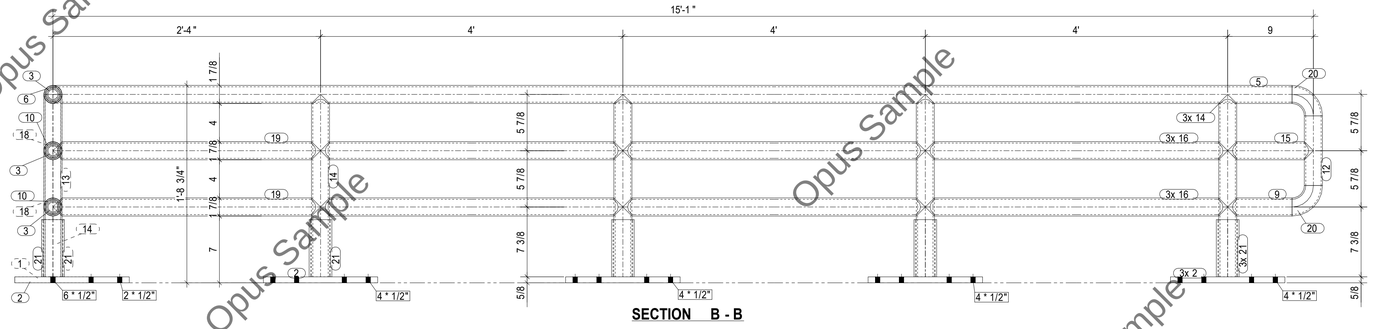
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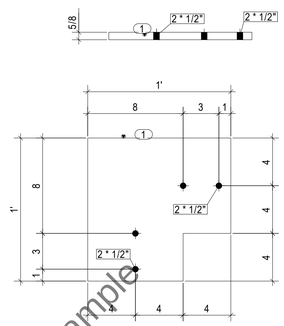


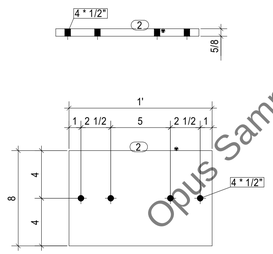
SECTION A - A





SECTION B - B





BILL OF MATERIAL

MATERIAL LIST FOR ONE ASSEMBLY MK'D HR1 1 NO. Required

Mark	Profile	Grade	Qty.	Length	UNT/lbs	Weight/lbs	Remark
HR1/6	PIPE1-1/2SCH40	ALUMINUM	1	4'-9 5/8"	12.26	12.26	
1	PLT5/8*1'	ALUMINUM	1	1'	22.73	22.73	
2	PLT5/8*8	ALUMINUM	5	1'	17.04	85.21	
3	PIPE1SCH40	ALUMINUM	3	4"	0.53	1.61	
5	PIPE1-1/2SCH40	ALUMINUM	1	14'-11 3/4"	38.23	38.23	
9	PIPE1-1/2SCH40	ALUMINUM	1	6 3/4"	1.43	1.43	
10	PIPE1-1/2SCH40	ALUMINUM	2	3'-5 3/4"	8.88	17.77	
12	PIPE1-1/2SCH40	ALUMINUM	1	7 5/16"	1.57	1.57	
13	PIPE1-1/2SCH40	ALUMINUM	1	1'-7 1/8"	4.08	4.08	
14	PIPE1-1/2SCH40	ALUMINUM	5	1'-7 1/8"	4.08	20.35	
15	PIPE1-1/2SCH40	ALUMINUM	1	9"	1.92	1.92	
16	PIPE1-1/2SCH40	ALUMINUM	6	4'	10.21	27.79	
18	PIPE1-1/2SCH40	ALUMINUM	2	1'-2 15/16"	3.17	6.37	
19	PIPE1-1/2SCH40	ALUMINUM	2	2'-4 1/16"	5.97	11.93	
20	ELBOW-1-1/2"SCH40	ALUMINUM	2	3 1/2"	0.75	1.50	
21	PIPE2SCH40	ALUMINUM	6	6"	1.74	10.41	
				Assembly Total =		**298.57**	

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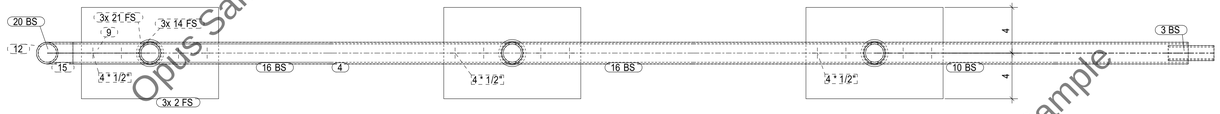
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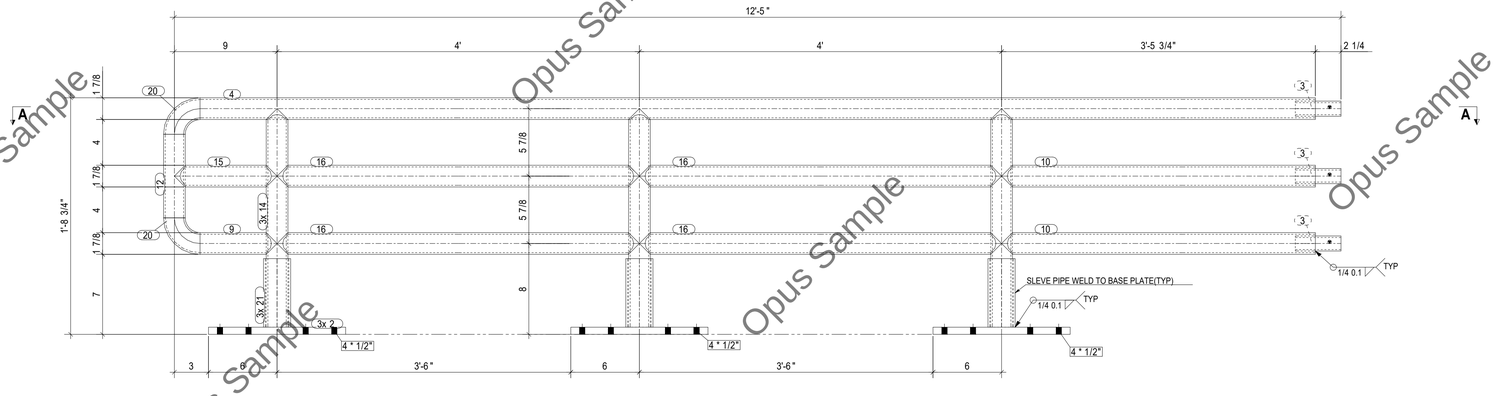
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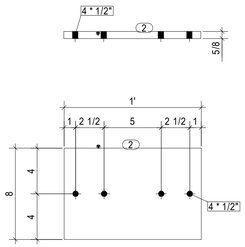
SHEET NUMBER:
S-3.0

Opus Sample



SECTION A - A





BILL OF MATERIAL

MATERIAL LIST FOR ONE ASSEMBLY MK'D HR2 1 NO. Required

Mark	Profile	Grade	Qty.	Length	UNT/lbs	Weight/lbs	Remark
HR2/4	PIPE1-1/2SCH40	ALUMINUM	1	12'-1/2"	30.73	30.73	
2	PLT5/8*8	ALUMINUM	3	1'	17.04	51.12	
3	PIPE1SCH40	ALUMINUM	3	4"	0.53	1.61	
9	PIPE1-1/2SCH40	ALUMINUM	1	6 3/4"	1.43	1.43	
10	PIPE1-1/2SCH40	ALUMINUM	2	3'-5 3/4"	8.88	17.77	
12	PIPE1-1/2SCH40	ALUMINUM	1	7 5/16"	1.57	1.57	
14	PIPE1-1/2SCH40	ALUMINUM	3	1'-7 1/8"	4.08	12.21	
15	PIPE1-1/2SCH40	ALUMINUM	1	9"	1.92	1.92	
16	PIPE1-1/2SCH40	ALUMINUM	4	4'	10.21	40.83	
20	ELBOW-1-1/2"SCH40	ALUMINUM	2	3 1/2"	0.75	1.50	
21	PIPE2SCH40	ALUMINUM	3	6"	1.74	5.20	
				Assembly Total =		**165.88**	

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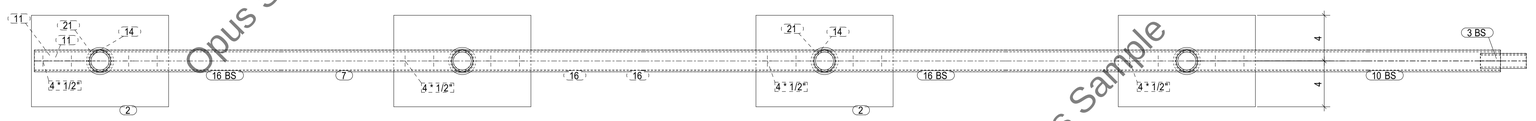
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Opus Sample

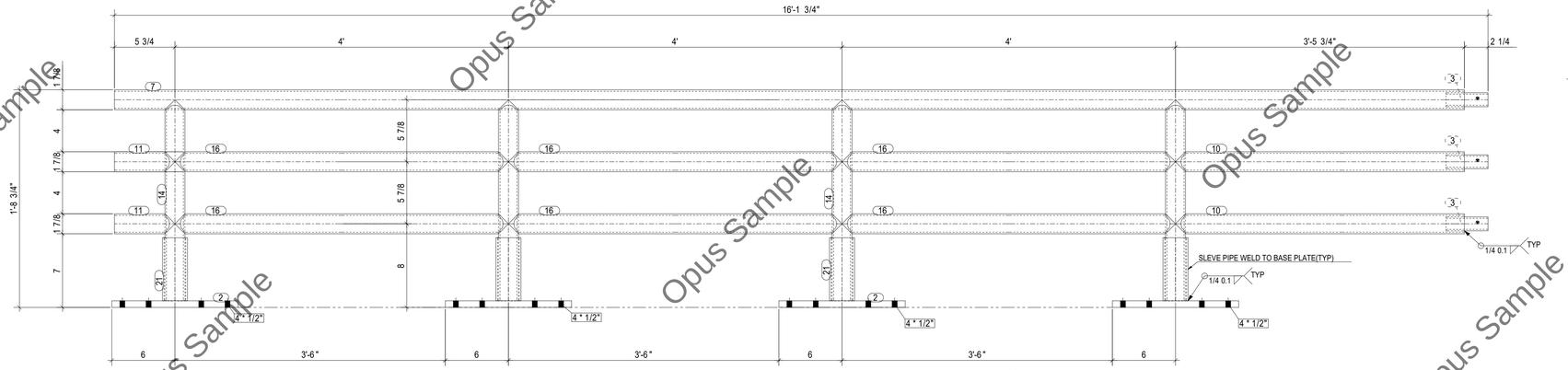
BILL OF MATERIAL

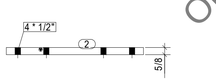
MATERIAL LIST FOR ONE ASSEMBLY MK'D HR3 7 NO. Required

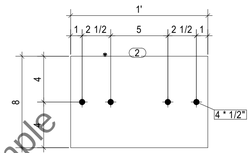
Mark	Profile	Grade	Qty.	Length	UNT/lbs	Weight/lbs	Remark
HR3/7	PIPE1-1/2SCH40	ALUMINUM	1	15'-11 1/2"	40.74	40.74	
2	PLT5/8*8	ALUMINUM	4	1'	17.04	68.17	
3	PIPE1SCH40	ALUMINUM	3	4"	0.53	1.61	
10	PIPE1-1/2SCH40	ALUMINUM	2	3'-5 3/4"	8.88	17.77	
11	PIPE1-1/2SCH40	ALUMINUM	2	5 3/4"	1.21	2.45	
14	PIPE1-1/2SCH40	ALUMINUM	4	1'-7 1/8"	4.08	16.27	
16	PIPE1-1/2SCH40	ALUMINUM	6	4'	10.21	61.27	
21	PIPE2SCH40	ALUMINUM	4	8"	1.74	6.94	
				Assembly Total =		**215.17**	



SECTION A - A







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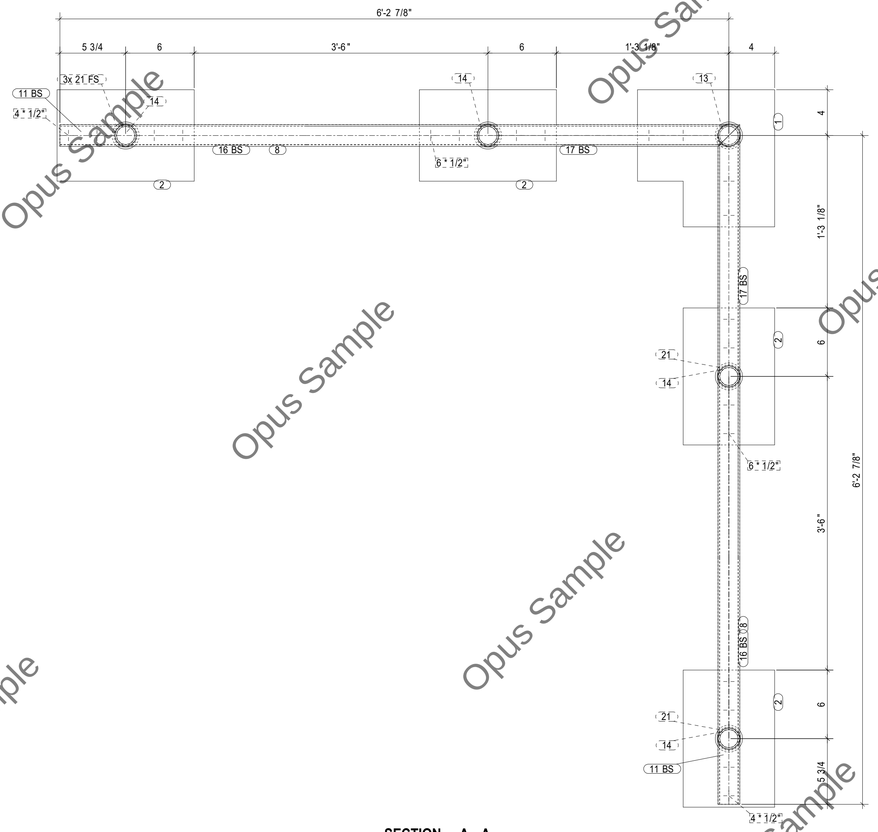
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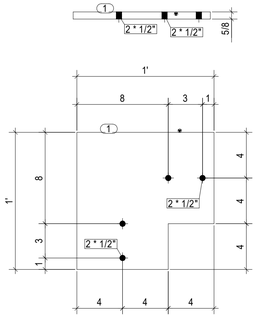
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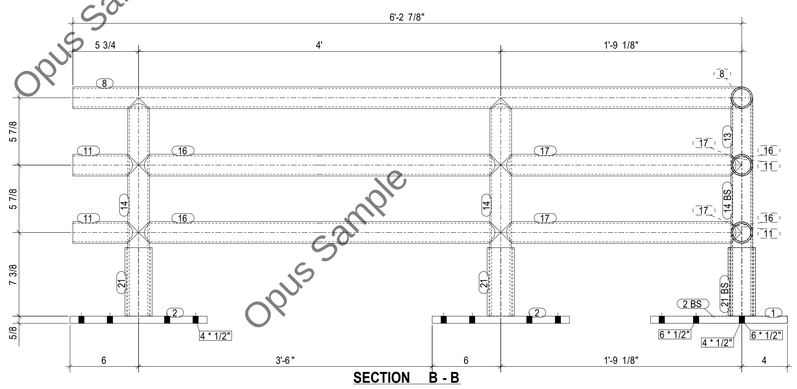
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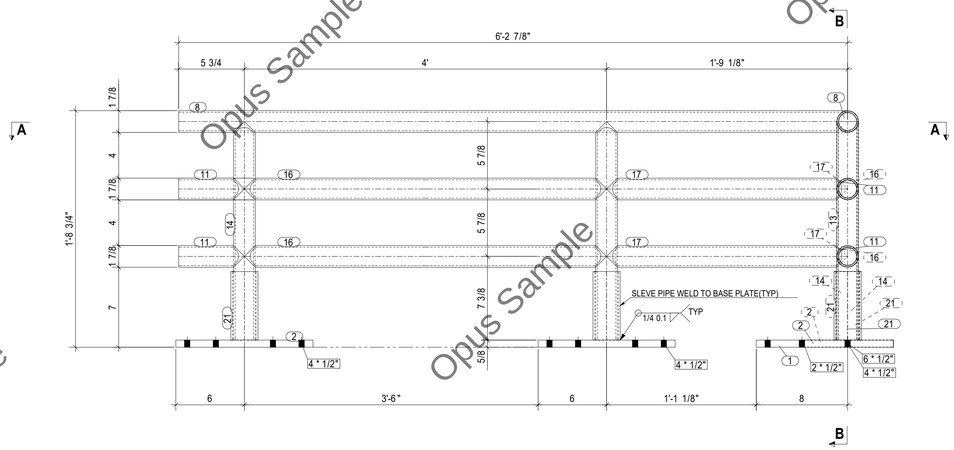
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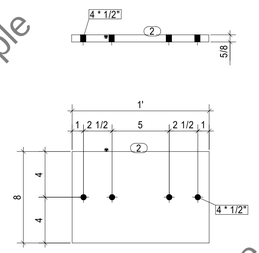


BILL OF MATERIAL							
MATERIAL LIST FOR ONE ASSEMBLY MK'D HR4 1 NO. Required							
Mark	Profile	Grade	Qty.	Length	UNT/lbs	Weight/lbs	Remark
HR4/8	PIPE1-1/2SCH40	ALUMINUM	1	6'-3 13/16"	16.1	16.1	
1	PLT3/8*1'	ALUMINUM	1	1'	22.72	22.72	
2	PLT3/8*8	ALUMINUM	4	1'	17.03	68.14	
8	PIPE1-1/2SCH40	ALUMINUM	1	6'-3 13/16"	16.11	16.11	
11	PIPE1-1/2SCH40	ALUMINUM	4	5 3/4"	1.21	4.85	
13	PIPE1-1/2SCH40	ALUMINUM	1	1'-7 1/8"	4.07	4.07	
14	PIPE1-1/2SCH40	ALUMINUM	4	1'-7 1/8"	4.07	16.31	
16	PIPE1-1/2SCH40	ALUMINUM	4	4'	10.20	40.81	
17	PIPE1-1/2SCH40	ALUMINUM	4	1'-9 1/16"	4.47	17.89	
21	PIPE2SCH40	ALUMINUM	5	6"	1.74	8.70	
				Assembly Total =		215.77	



SECTION B - B





ES

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