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Suite 250  
Englewood, CO 80112  
Office: (303) 770-7878  
Fax: (303) 770-7667

## LETTER OF TRANSMITTAL

TO: Steamboat Structures  
Denver Metro, CO

DATE: 9/7/2021

FILE NO. 012-01

ATTN: Heather Reed

RE: Forest Lakes Bridges

### WE ARE SENDING YOU:

- |   |   |                                  |
|---|---|----------------------------------|
| <input type="checkbox"/> Shop Drawings  | <input type="checkbox"/> Copy of Letter                   | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Specifications | <input type="checkbox"/> Reports                          | <input type="checkbox"/> _____   |
| <input type="checkbox"/> Plans          | <input checked="" type="checkbox"/> Submittal Information |                                  |

SUBMITTED BY: Structures

COPIES	DESCRIPTION	CONTRACTOR
1	Pipe Hand Railing Shop Drawings	Structures

### THESE ARE TRANSMITTED:

- |  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> For Approval | <input checked="" type="checkbox"/> For Review and Comment | <input type="checkbox"/> Returned for Corrections |
| <input type="checkbox"/> For Your Use            | <input type="checkbox"/> Approved As Submitted             | <input type="checkbox"/> _____                    |
| <input type="checkbox"/> As Requested            | <input type="checkbox"/> Approved As Noted                 |   |

### REMARKS:

The top of the wingwalls and the medians are not level  
and the horizontal rails need to reflect the slope of the  
top of walls. Manufacturer to update horizontal rail  
angles to the vertical posts.

cc: File

#### SHOP DRAWING REVIEW

- ☐ NO EXCEPTIONS      ☒ REVISE AS NOTED  
☐ REVISE AND RESUBMIT    ☐ REJECTED

This review is for general conformance with the design intent of the project and general compliance with the information provided in the contract documents. Review, corrections, or comments made concerning the shop drawings during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications, nor relieve the contractor of contractual responsibility for any error or deviation from the contract documents.

The contractor is responsible for, but not limited to: confirming all quantities, dimensions, and structural capabilities, selecting fabrication and construction techniques, coordinating work with that of all other trades, and performing work in a safe and satisfactory manner.

#### STEAMBOAT STRUCTURES, LLC

By: H. Reed

DATE: 11/2/21



**Merritt Welding and Fabrication**  
**5340 Tennyson Street Arvada, CO**

PH: 720-934-9943  
EMAIL: JACOB.L@MERRITTWELDING.COM

ALL PARTS BOM	
Description	QTY.
P2	318'-7 7/8
8"x8"x1/4" Baseplate	3'-4

SECTION BOM			
PART NUMBER	QTY.	Description	TOTAL LENGTH
Wingwall 1A Rail Forest Lake Bridge MAIN PART	1		
	67'-1 1/8	P2	66'-5"
Median Railings MAIN PART	2		
	27'-6 7/8	P2	27'-6 7/8"
Wingwall 1B Rail Forest Lake Bridge MAIN PART	1		
	83'-11 13/16	P2	83'-11 5/8"
	7	8"x8"x1/4" Baseplate	
Wingwall 3A Rail Forest Lake Bridge MAIN PART	1		
	69'-10 7/8	P2	69'-10 11/16"
	7	8"x8"x1/4" Baseplate	
Wingwall 3B Rail Forest Lake Bridge MAIN PART	1		
	69'-5/16	P2	69'-1/8"
	7	8"x8"x1/4" Baseplate	

PROJECT: Lake Forest Bridge Rails

CLIENT: Steamboat Structures

DRAWN BY  
Caleb W.

DATE CREATED  
4/28/2021

REVISION #  
1

REV. DATE  
9/3/2021

MATERIAL  
ASTM A53 Grade B

FINISH  
Galvanized

TEST FIT?  
No

SCALE  
1:256

SHEET #  
1 of 7

BOM



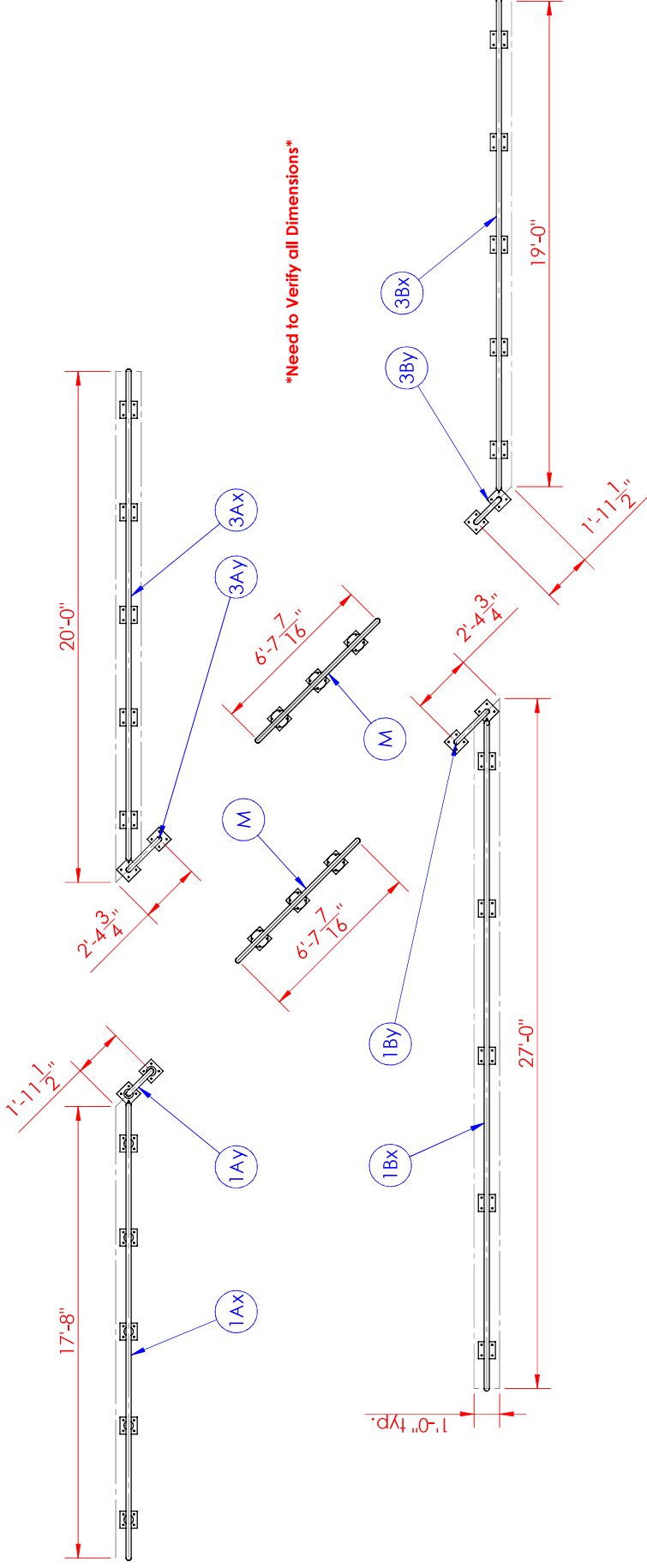
Merritt Welding and Fabrication  
5340 Tennyson Street Arvada, CO  
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PROJECT: Lake Forest Bridge Rails

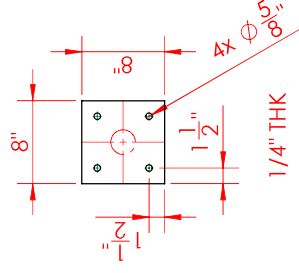
CLIENT: Steamboat Structures

DRAWN BY	Colin W.
DATE CREATED	4/28/2021
REVISION #	1
REV. DATE	9/3/2021
MATERIAL	ASTM A53 Grade B
FINISH	Galvanized
TEST RT?	No
SCALE	1:50
SHEET #	2 of 7

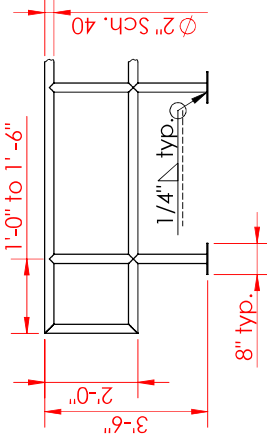
FAB. BY DATE	
CUT BY	
RT BY	
WELDED BY	
READY FOR FINISH	



Typical baseplate



Typical design



ITEM NO.	PART NUMBER	WEIGHT (lbs.)
M	Median Railings MAIN PART	119.68
1A	Wingwall 1A Rail Forest Lake Bridge MAIN PART	272.80
1B	Wingwall 1B Rail Forest Lake Bridge MAIN PART	336.99
3A	Wingwall 3A Rail Forest Lake Bridge MAIN PART	285.50
3B	Wingwall 3B Rail Forest Lake Bridge MAIN PART	282.28

Overview

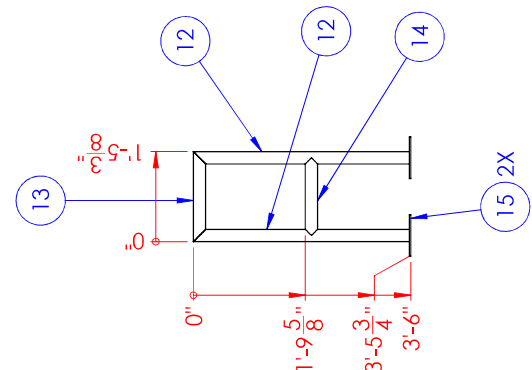


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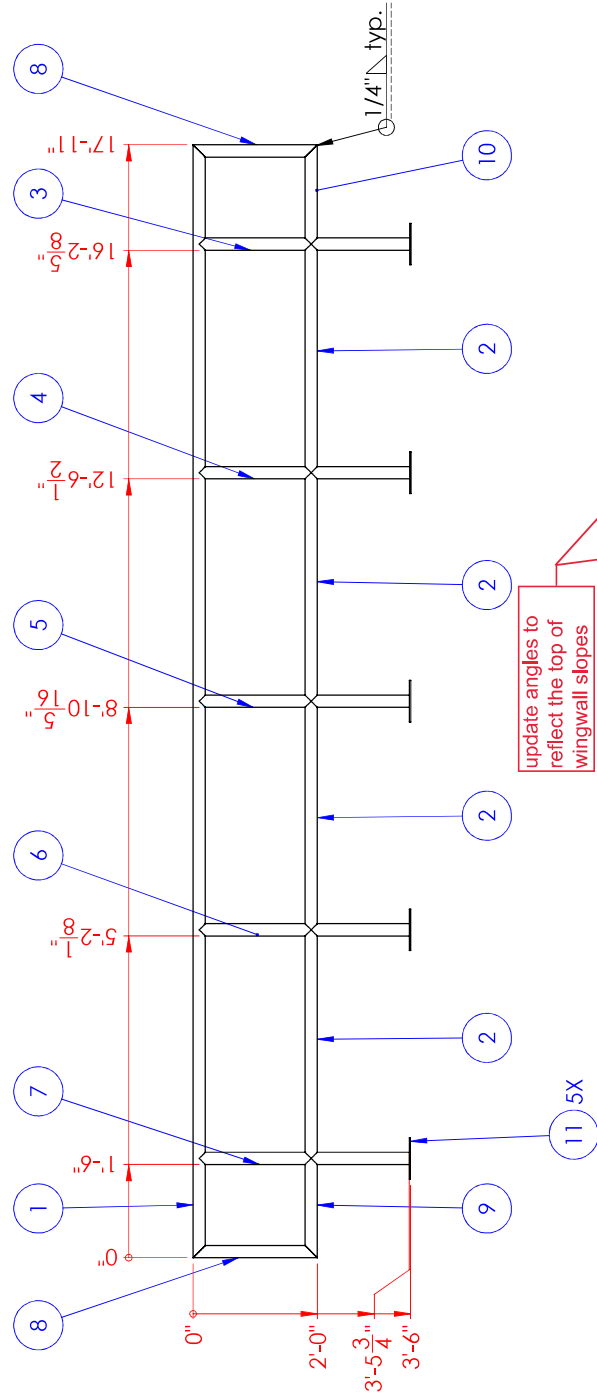
PROJECT: Lake Forest Bridge Rails  
CLIENT: Steamboat Structures

DRAWN BY Caleb W.
DATE CREATED 4/28/2021
REVISION # 1
REV. DATE 9/3/2021
MATERIAL ASTM A53 Grade B
FINISH Galvanized
TEST FIT? No
SCALE 1:24
SHEET # 3 of 7

1Ay Rail

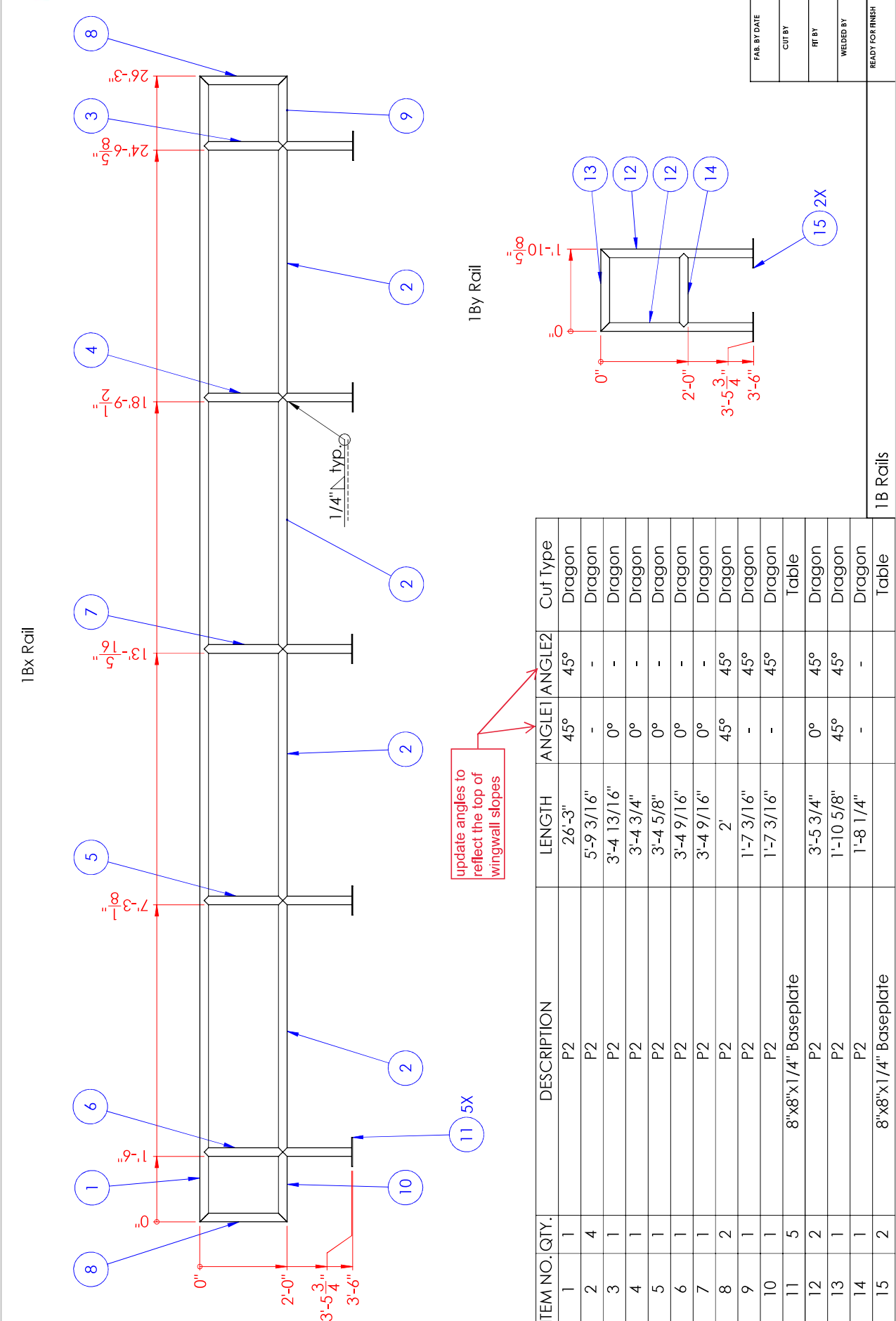


1Ax Rail



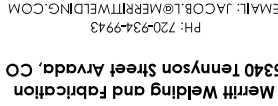
ITEM NO.	QTY.	DESCRIPTION	LENGTH	ANGLE1	ANGLE2	Cut Type
1	1	P2	17'-11"	45°	45°	Dragon
2	4	P2	3'-8 3/16"	-	-	Dragon
3	1	P2	3'-4 11/16"	0°	-	Dragon
4	1	P2	3'-4 5/8"	0°	-	Dragon
5	1	P2	3'-4 5/8"	0°	-	Dragon
6	1	P2	3'-4 5/8"	0°	-	Dragon
7	1	P2	3'-4 9/16"	0°	-	Dragon
8	2	P2	2'	45°	45°	Dragon
9	1	P2	1'-7 3/16"	-	45°	Dragon
10	1	P2	1'-7 3/16"	-	45°	Dragon
11	5	8"x8"x1/4" Baseplate				Table
12	2	P2	3'-5 3/4"	0°	45°	Dragon
13	1	P2	1'-5 3/8"	45°	45°	Dragon
14	1	P2	1'-3"	-	-	Dragon
15	2	8"x8"x1/4" Baseplate				Table

1A Rails









## Lake Forest Bridge Rails

CLIENT:	DRAWN BY Caleb W.
	DATE CREATED 4/28/2021
	REVISION # 1
	REV. DATE 9/3/2021
	MATERIAL 1 A 53 Grade B
	FINISH Galvanized
	TEST HIT? No
	SCALE 1:12
	SHEET # 7 of 7

FAB. BY DATE	9/3/2021
CUT BY	MATERIAL ASTM A 53 Grade B
FIN BY	FINISH Galvanized
WELDED BY	TEST HIT? No
READY FOR FINISH	SCALE 1:12
	SHEET # 7 of 7

ITEM NO.	QTY.	DESCRIPTION	LENGTH	ANGLE1	ANGLE2	CUT TYPE
1	2	P2	6'-9 13/16"	45°	45°	Dragon
2	6	P2	3'-4 9/16"	0°	-	Dragon
3	4	P2	2'-1 5/16"	-	-	Dragon
4	4	P2	1'-10 13/16"	45°	45°	Dragon
5	4	P2	1'-3 9/16"	-	45°	Dragon
6	6	8'x8'x1/4" Baseplate				Table

**\*MAKE 2 IDENTICAL RAILS\***

update angles to  
reflect the top of  
median cross  
slopes

