

**REPAIR D
RIVET REPLACEMENT SCHEDULE**

	Span	Member	Location	Qty to Replace
North Approach	21N	Girder D	Btwn Stiff 2 & 3, and Stiff 6 & 7	10 Bolts with Missing Heads
	19N	Girder C	3'-0" From Pier 19N	1 Missing Rivet
	15N	Girder D	Third Stiff from Pier 15N	26 Rivets with Missing Heads
	14N	Girder D	Btwn Stiff 2 & 3, and Stiff 6 & 10	19 Rivets with Missing Heads
Truss Spans	A	L8W - L14W	Throughout	32 Missing Rivets
	A	L8E - L14E	Throughout	44 Missing Rivets
	A	L10E - L11E	Splice on South Side of L10E	9 Missing Rivets
	B	L24E - L26E	Throughout	14 Missing Rivets
	B	L24W - L26W	Throughout	14 Missing Rivets
	C	L26W - L40W	Throughout	108 Missing Rivets
	C	L26E - L40E	Throughout	120 Missing Rivets
	C	L36W - L37W	Top Splice \bar{L} 4'-0" From L36W	12 Missing Rivets
	C	L36E - L37E	Top Splice \bar{L} 4'-0" From L36E	12 Missing Rivets
	D	L40E - L60E	Throughout	92 Missing Rivets
	D	L40W - L60W	Throughout	92 Missing Rivets
	D	Gusset \bar{L}	At L40W	4 Missing Rivets
	D	L60E - L61E	Top Splice \bar{L} 4'-0" From L60E	8 Missing Rivets
	D	L60W - L61W	Top Splice \bar{L} 4'-0" From L60W	12 Missing Rivets
	D	Gusset \bar{L}	At L62W	4 Missing Rivets
	E	L62E - L76E	Throughout	118 Missing Rivets
	E	L62W - L76W	Throughout	116 Missing Rivets
	F	L76E - L90E	Throughout	32 Missing Rivets
F	L76W - L90W	Throughout	33 Missing Rivets	
South Approach	6S	Girder D	Btwn Stiff 1 & 2, and at Stiff 12	7 Rivets with Missing Heads
	8S	Girder D	At Stiff 3	16 Rivets with Missing Heads
	9S	Girder D	At Stiff 2, 3, 8 thru 10 & 13	33 Rivets with Missing Heads
	13S	Girder A	At Stiff 2	19 Rivets with Missing Heads

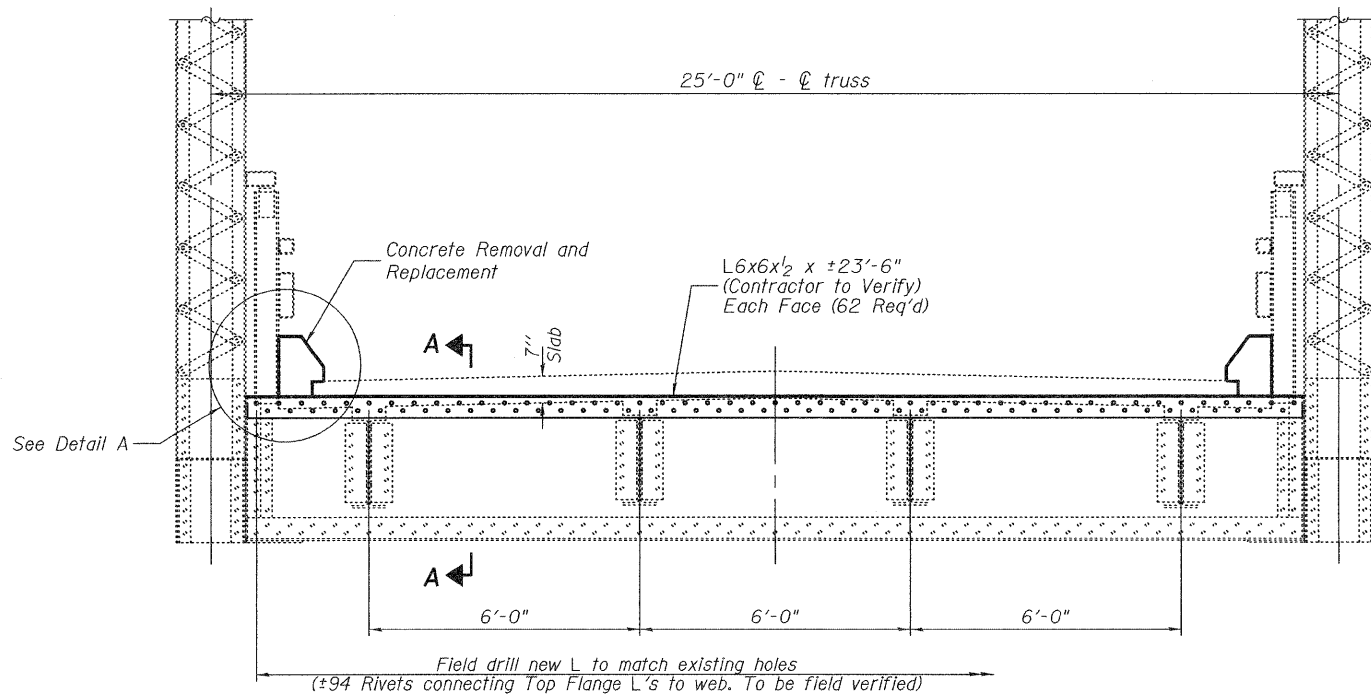
Cost of rivet removal and replacement bolts is included in the cost of Structural Steel Repair.

Note A:
The Contractor is advised that a trial removal of a section of plate at Floorbeam 1 using a propane tracked torch produced very good results. The 1" x 1" bar had to be sacrificed and using this method will need to be replaced. Grinding off of remaining weld on plate is required due to the very narrow cut produced by the cutting equipment used.
The Contractor must submit the plate removal method to the Engineer for approval prior to commencing any work on the plate.

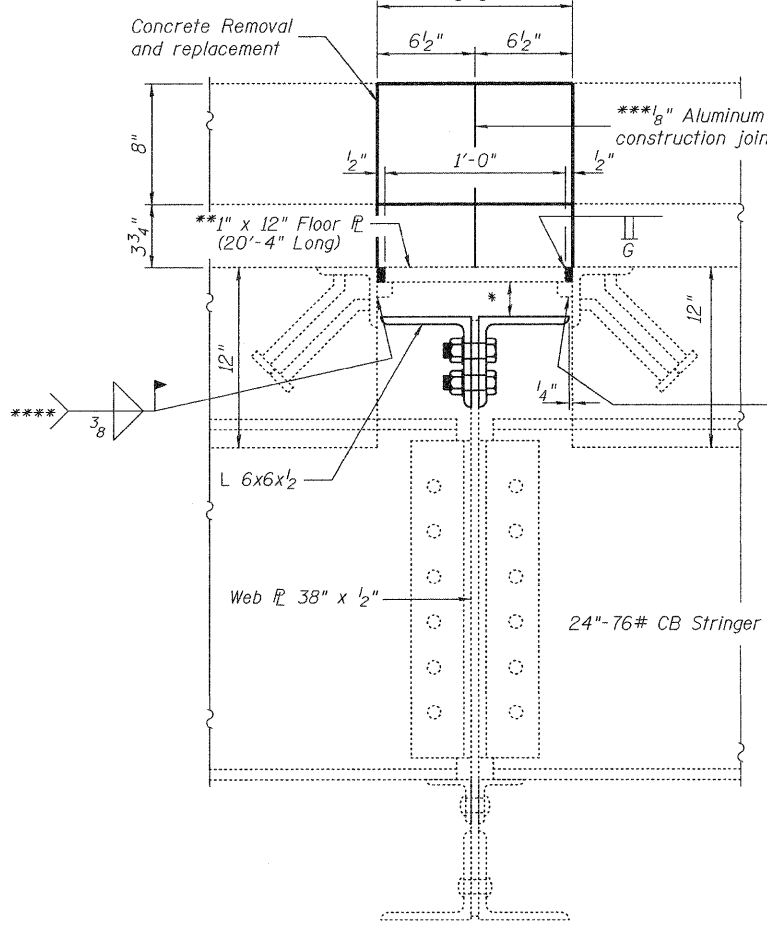
***To be removed and re-installed. Cost included with Structural Steel Repair.

***Cost of Aluminum \bar{L} is included with Concrete Superstructure

****Bars may require replacement depending on Contractor's method of Floor \bar{L} Removal.

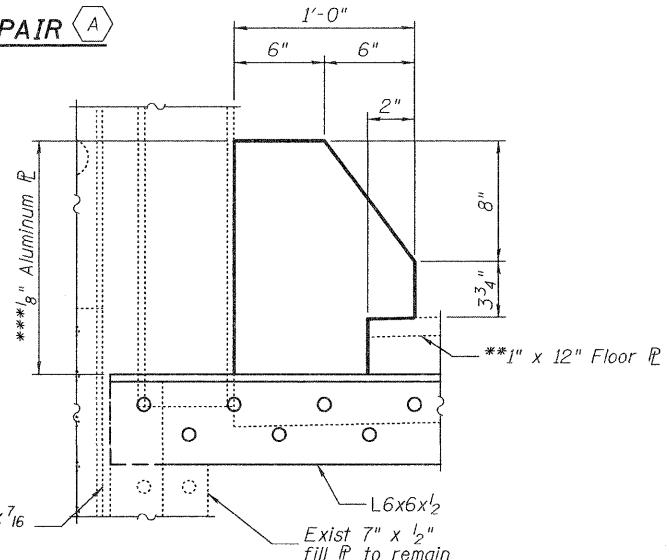


TYPICAL CROSS SECTION AT REPAIR



SECTION A-A

*Varies from $\pm 1\frac{1}{2}$ " to ± 5 "



DETAIL A

SUGGESTED METHOD OF FLOOR BEAM TOP ANGLE REPLACEMENT

1. Remove concrete curb at ends of 1" x 12" floor \bar{L} .
2. Remove and store 1" x 12" floor \bar{L} welded to embedded L's and 1" x 1" bar without damaging it. (See Note A)
3. Install Temporary Support System.
4. Remove rivets from top 6x6x1/2 angles and remove angles in one piece.
5. Use existing angles as template to field drill bolt holes in new 6x6x1/2 angles.
6. Install new 6x6x1/2 angles. Because of the confined location it may not be possible to tighten the bolts using power equipment.
7. Remove Temporary Support System.
8. Weld existing 1" x 12" cover plates back in place full length and pour new concrete curbs.