25′-0" € - € truss Concrete Removal and L6x6xl₂ x ±23'-6" -(Contractor to Verify) Each Face (62 Req'd) Replacement A ◆₁ See Detail A 6'-0" Field drill new L to match existing holes (±94 Rivets connecting Top Flange L's to web. To be field verified) TYPICAL CROSS SECTION AT REPAIR (A) Concrete Removal 6½" and replacement ***!₈" Aluminum £ construction joint **1" x 12" Floor P (20'-4" Long) **1" x 12" Floor P 0 Ω 0 0 Ö ****Bar 1" x 1" x 19'-11³4" ·L6x6x¹2 Exist L4x4x716 $6x6x_{2}^{1}$ Exist 7" x 1/2" to remain \circ fill 🖺 to remain \circ DETAIL A \circ \mathcal{O} Web ₽ 38" x 5" \odot 24"-76# CB Stringer SUGGESTED METHOD OF FLOOR BEAM TOP ANGLE REPLACEMENT \circ \circ 1. Remove concrete curb at ends of 1" x 12" floor ₽. 2. Remove and store 1" x 12" floor P welded to embedded L's \circ \bigcirc and 1" x 1" bar without damaging it. (See Note A) 3. Install Temporary Support System. 4. Remove rivets from top $6x6x_2^1$ angles and remove angles in one piece. 5. Use existing angles as template to field drill bolt holes in new $6x6x_2^{l}$ angles. 6. Install new $6x6x_2^l$ angles. Because of the confined

REPAIR D RIVET REPLACEMENT SCHEDULE

	Span	Member	Location	Qty to Replace
1ch	21N	Girder D	Btwn Stiff 2 & 3, and Stiff 6 & 7	10 Bolts with Missing Heads
ρρίος	19N	Girder C	3'-0" From Pier 19N	1 Missing Rivet
North Approach	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
	А	L8W - L14W	Throughout	32 Missing Rivets
	Α	L8E - L14E	Throughout	44 Missing Rivets
	А	L10E - L11E	Splice on South Side of L10E	9 Missing Rivets
	В	L24E - L26E	Throughout	14 Missing Rivets
	В	L24W - L26W	Throughout	14 Missing Rivets
	С	L26W - L40W	Throughout	108 Missing Rivets
	С	L26E - L40E	Throughout	120 Missing Rivets
	С	L36W - L37W	Top Splice ₧ 4′-0" From L36W	12 Missing Rivets
Truss Spans	С	L36E - L37E	Top Splice & 4'-0" From L36E	12 Missing Rivets
	D	L40E - L60E	Throughout	92 Missing Rivets
	D	L40W - L60W	Throughout	92 Missing Rivets
	D	Gusset 12	At L40W	4 Missing Rivets
	D	L60E - L61E	Top Splice 🖺 4'-0" From L60E	8 Missing Rivets
	D	L60W - L61W	Top Splice & 4'-0" From L60W	12 Missing Rivets
	D	Gusset P	A† L62W	4 Missing Rivets
	E	L62E - L76E	Throughout	118 Missing Rivets
	Ε	L62W - L76W	Throughout	116 Missing Rivets
	F	L76E - L90E	Throughout	32 Missing Rivets
	F	L76W - L90W	Throughout	33 Missing Rivets
South Approach	65	Girder D	Btwn Stiff 1 & 2, and at Stiff 12	7 Rivets with Missing Heads
	85	Girder D	At Stiff 3	16 Rivets with Missing Heads
	95	Girder D	At Stiff 2, 3, 8 thru 10 & 13	33 Rivets with Missing Heads
	138	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.

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

Cost of Aluminum P is included with Concrete Superstructure

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.

Repair.	
***Coct	οf

****Bars may require replacement

depending on Contractor's method of Floor & Removal.

DESIGNED - G.G.E. EXAMINED CHECKED - V.H.V. Drew Christopher DRAWN PASSED

SECTION A-A

* Varies from ±1½" to ±5"

MARCH 14, 2011

location it may not be possible to tighten the bolts

7. Remove Temporary Support System.
8. Weld existing 1" x 12" cover plates back in place full length

using power equipment.

DATE

and pour new concrete curbs.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** REPAIR A DETAILS AND REPAIR D TABLE (138D-BR)I-6 Alexander 22 SN 002-0005 CONTRACT NO. 78250 SHEET NO. 10 OF 14 SHEETS ILLINOIS FED. AID PROJECT

SLT-99-001-11