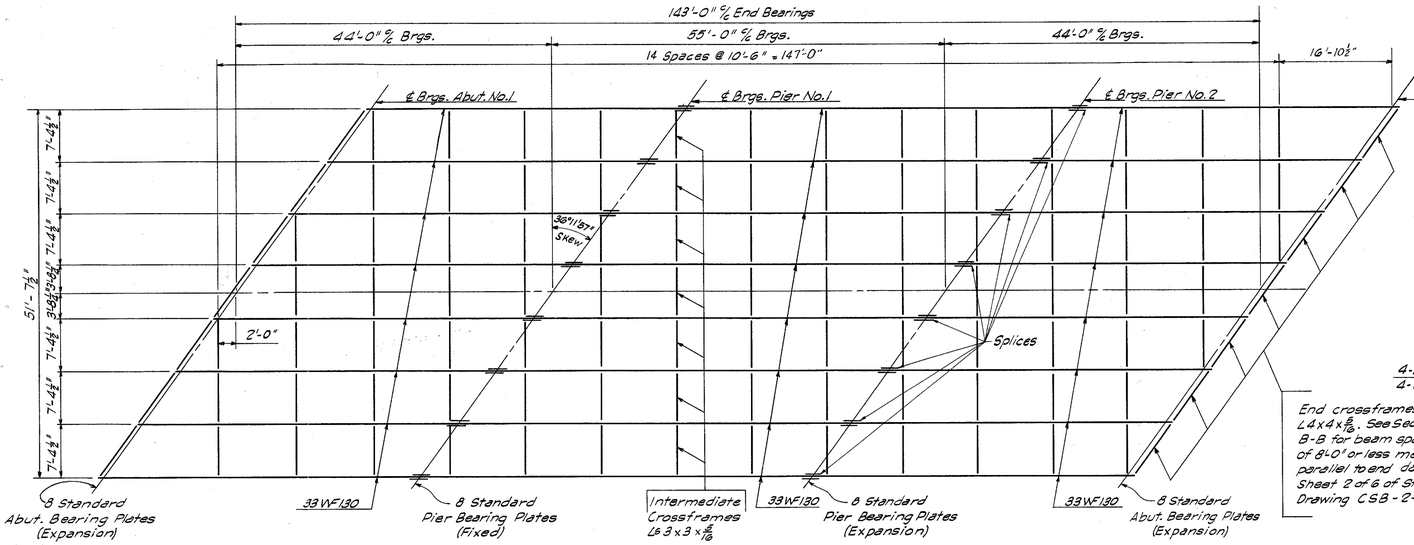
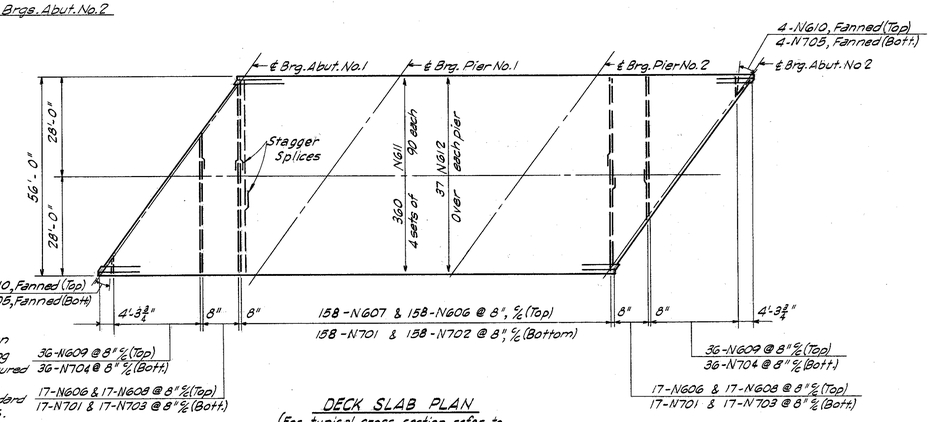
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1103(20)	

281/333

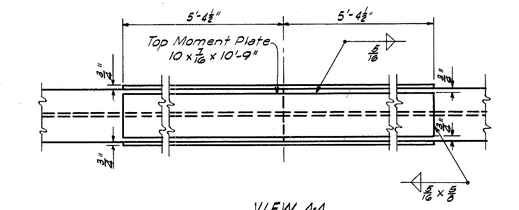
LAKE COUNTY
LAK-I-4.02



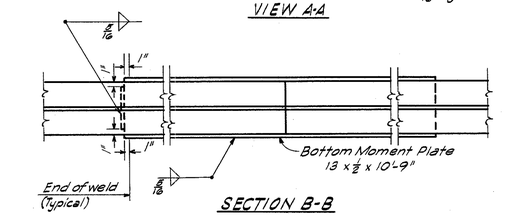
STEEL FRAMING PLAN



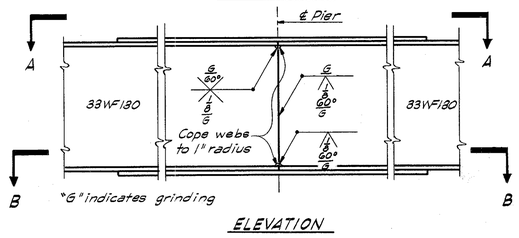
DECK SLAB PLAN
(For typical cross section refer to South Bound Bridge Superstructure Sheet).



VIEW A-A



SECTION B-B



ELEVATION

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam ½" at Abutments.
2. Butt weld beam flanges and web at the Piers, using the following sequence: make two passes on each flange, then two on the web; repeat using one pass at each location until welds are completed.
3. Weld top and bottom flange moment plates.
4. Lower ends of beams to final position.

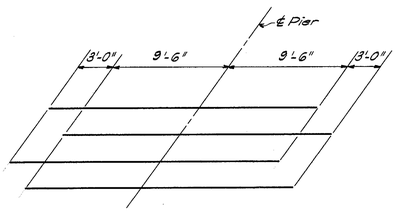


DIAGRAM SHOWING STAGGER OF N612 BARS OVER PIERS

DECK PLACING PROCEDURE

In placing the deck concrete, construction joints will be permitted, parallel to the transverse reinforcing steel and near the middle of any span. Because of the flow of curing water from the surface of previously-placed deck concrete, the sequence of pours shall be upgrade, starting at the lower end (or ends) on an inclined grade or vertical curve (or at an intermediate low point for a sagged vertical curve)

DEAD LOAD DEFLECTION

Location	Outside Beams		Inside Beams	
	Spans 1 & 3	Span 2	Spans 1 & 3	Span 2
Deflection due to weight of steel	0	0	0	0
Deflection due to remaining dead load	⅛	¼	⅛	¼
Total dead load deflection	⅛	¼	⅛	¼

Note: Beams shall be fabricated with any natural camber or bowed side up.

NOTES

- Refer to Standard Drawing CSB-2-56 Sheet 2 of 6 for details of end dam
- Refer to Standard Drawing CSB-2-56 Sheet 3 of 6 for gutter, scuppers and curb plate details.
- Refer to Standard Drawing CSB-2-56, Sheet 3 of 6, for details of sliding plate bearings.
- Concrete and reinforcing steel above parapet construction joints included with railing for payment.
- Joints in End Dam: A welded butt joint in the end dam, at the apex of the crown, will be required for that portion of the end dam attached to the Superstructure. The portion attached to the backwall shall be placed in segments which shall be closely butted, with one of the joints at the apex of the crown, but shall not be welded.
- Concrete shall be Class "C".

MICHAEL BAKER JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

SUPERSTRUCTURE

NORTH BOUND
BRIDGE NO. LAK-I-0499
OVER RIVERSIDE DRIVE
LAKE COUNTY
N.B. STA. 269+83.49
TO STA. 271+32.07

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
Y.G.	A.D.	A.D.	J.V.W.	M.R.B. 4-25-56	