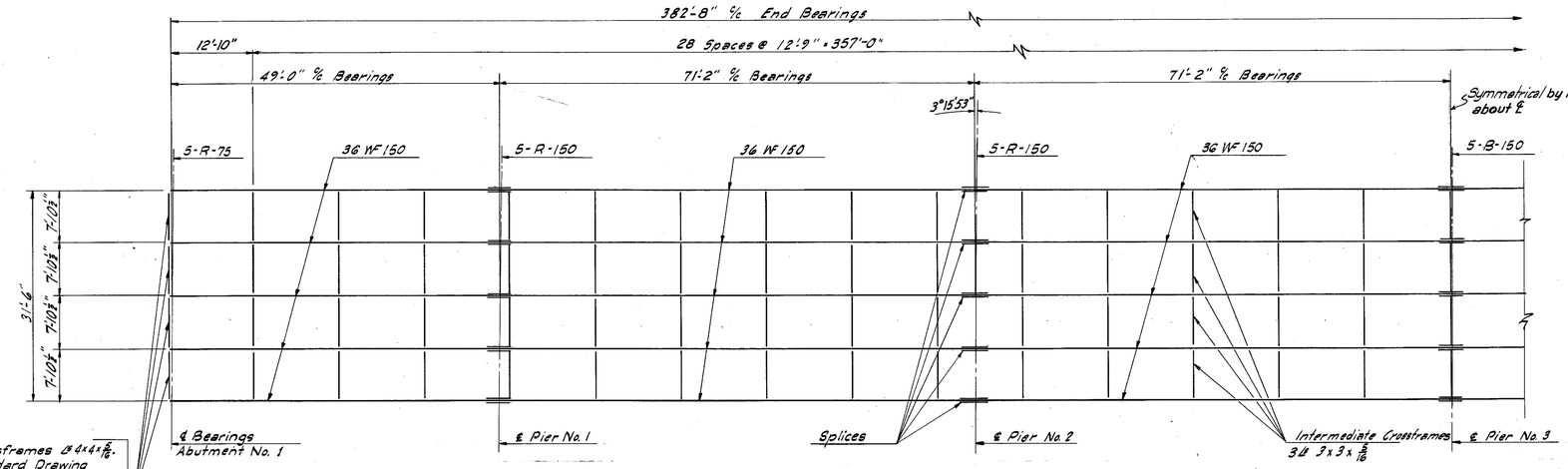
MICROFILMED
SEP 6 1965

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1102(6)	

377/458

CUYAHOGA & LAKE COUNTIES
CUY-1-15.91
LAK-1-0.00



End Crossframes ℄ 4x4x5/16. See Standard Drawing CSB-2-56, revised 2-2-59, Sheet 2 of 6, Section B-B (for beam spacing 8'-0" or less, measured parallel to end dam).

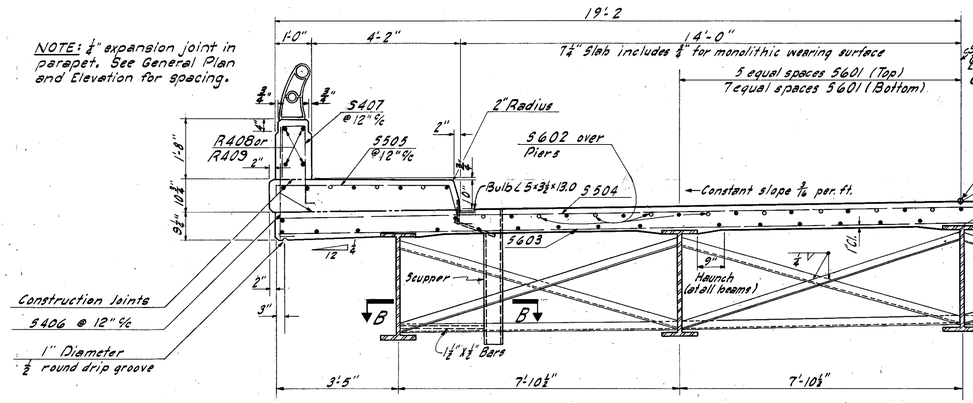
HALF STEEL FRAMING PLAN

Cambering of beams is required in accordance with the following table.

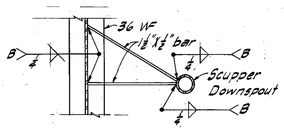
DEFLECTION AND CAMBER						
LOCATION	OUTSIDE BEAMS			INSIDE BEAMS		
	SPANS 1 & 6	SPANS 2 & 5	SPANS 3 & 4	SPANS 1 & 6	SPANS 2 & 5	SPANS 3 & 4
Deflection due to weight of steel	0"	1/16"	1/16"	0"	1/16"	1/16"
Deflection due to remaining deadload	1/4"	13/16"	11/16"	1/8"	7/16"	3/8"
Convexity required for vertical curve	3/8"	13/16"	13/16"	3/8"	13/16"	13/16"
Sum of Deflection and Convexity	5/8"	1 11/16"	1 9/16"	1/2"	1 5/16"	1 1/4"
Required Camber	0"	1 11/16"	1 9/16"	0"	1 5/16"	1 1/4"

NOTE: Where no camber is specified, beams shall be fabricated with any natural camber or bowed side up.

NOTE: ¼" expansion joint in parapet. See General Plan and Elevation for spacing.

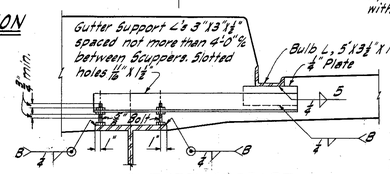


TRANSVERSE HALF SECTION



SECTION B-B

NOTE: Refer to CSB-2-56, Sh. 3 of 6 for gutter support spacing detail.



GUTTER SUPPORT

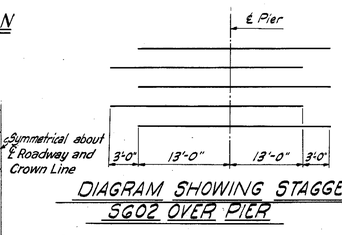
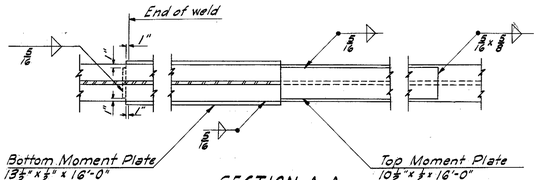


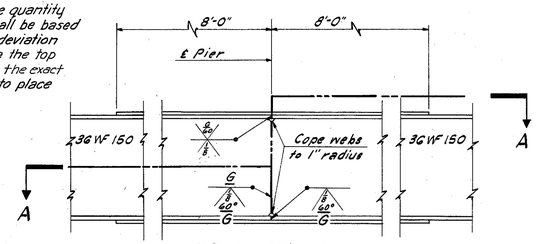
DIAGRAM SHOWING STAGGER OF S602 OVER PIER

* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or configuration required to place it parallel to finished Grade.

Intermediate crossframe L 3x3x5/16. Weld both sides of vertical leg and top side of horizontal leg to beam with ¼" continuous fillet weld.



SECTION A-A

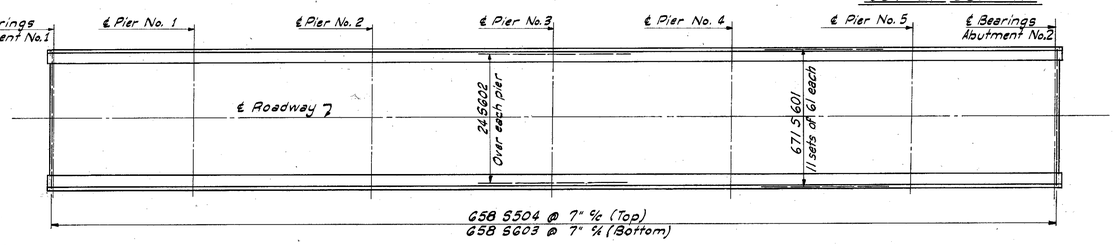


BEAM SPLICE DETAIL

(At all Piers)

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 not shown.
- Refer to Standard Drawing RB-1-55 for details of Rockers and Bolsters.
- 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 center line of roadway, 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".
- PAINTING: After erection and after the shop coat has been cleaned and, where necessary, repainted in accordance with Sec. S-8.04, an additional coat of the same paint as used in the shop shall be applied over the outside face of the outside steel beams and all sides of the bottom flange.



DECK SLAB PLAN

DECK CONSTRUCTION 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 lowest end (or ends) on an inclined grade or vertical curve (or at an intermediate low point for a sagged vertical curve).

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at Pier No. 2. 1 3/8"
2. Butt-weld beam flanges and web at Pier No. 1, using this sequence: make two passes on each flange; then two on the web; repeat using one pass at each location, until welds are complete.
3. Weld top and bottom flange moment plates at Pier No. 1.
4. Lower end of beam at Pier No. 2.
5. Make splices at second and succeeding Piers in the same manner raising the ends of the beams 1⅜" at the Piers and ½" at Abutment No. 2.

MICHAEL BAKER JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

SUPERSTRUCTURE
BRIDGE NO. CUY. -1-1725
UNDER HIGHLAND ROAD

CUYAHOGA CO. STA. 70+84.77

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
E.E.W.	A.C.M.	A.C.M. B.C.W.	G.S.W.	H.G.H. 12-30-58	4-19-60

K&E 150 IMPERIAL 60449