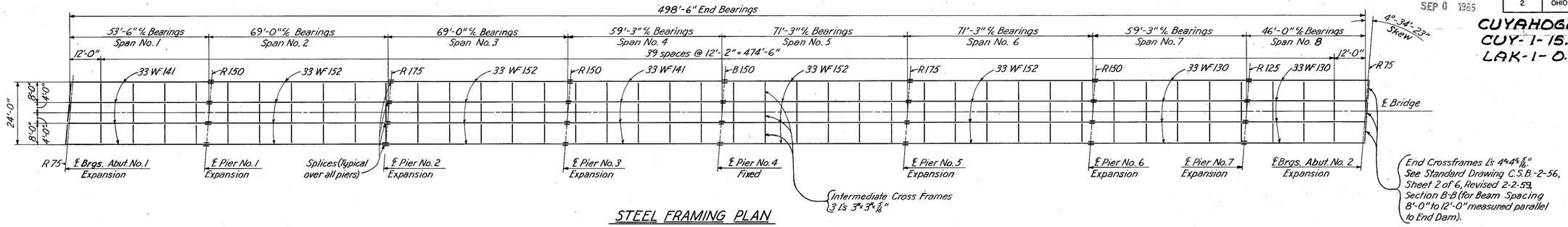
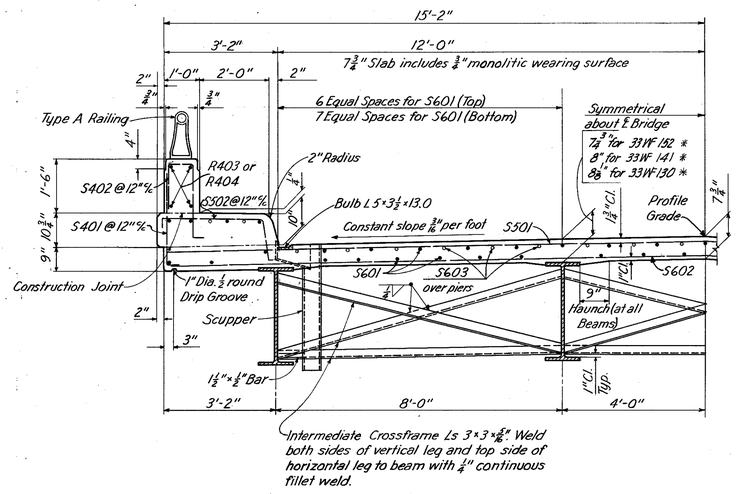
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1103(18)	

397
458

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



STEEL FRAMING PLAN



TYPICAL HALF CROSS-SECTION

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 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 second pier 1 3/16".
2. Butt-weld beam flanges and web at the first pier 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 at first pier.
4. Lower end of beam at second pier.
5. Make splice at second and succeeding piers in the same manner raising the beams at Pier 3: 1 7/16", at Pier 4: 1 5/16", at Pier 5: 1 1/16", at Pier 6: 1 3/16", at Pier 7: 1 1/16", and 1/2" at Abutment 2.

TABLE OF DIMENSIONS			
Pier	L	Top Moment Plate	Bottom Moment Plate
1, 3, & 4	7'-0"	10"×11/16"×14'-0"	13"×1/2"×14'-0"
2	7'-0"	10"×11/16"×14'-0"	13"×1/2"×14'-0"
5	7'-6"	10"×13/16"×15'-0"	13"×5/8"×15'-0"
6	7'-0"	10"×3/4"×14'-0"	13"×5/8"×14'-0"
7	6'-0"	10"×5/16"×12'-0"	13"×1/2"×12'-0"

* These are the nominal Dimensions. The Quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from them may be necessary because the top flange of the beam may not have the exact camber or configuration required to place it parallel to the finished grade.

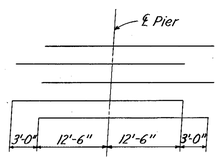
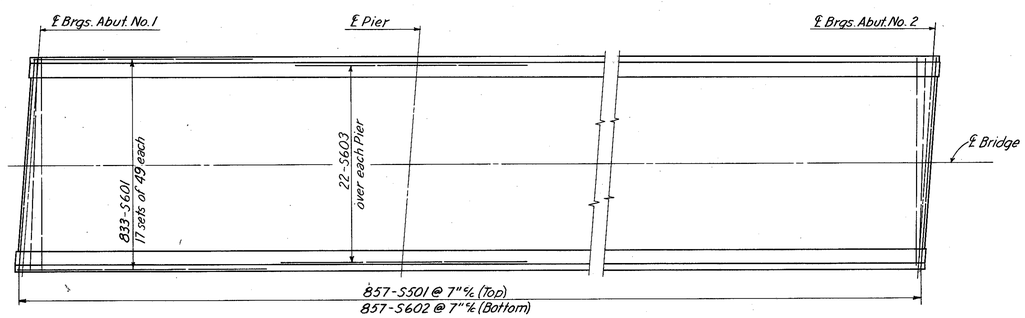
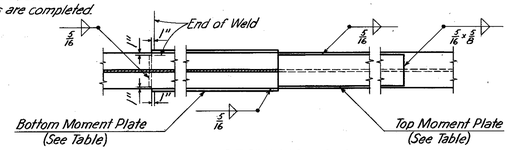


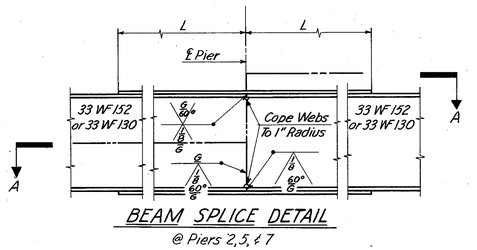
DIAGRAM SHOWING STAGGER OF S603 OVER PIERS



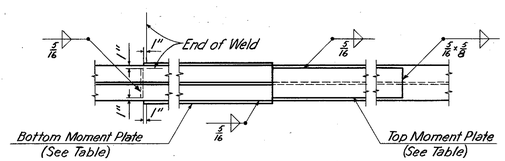
DECK SLAB PLAN



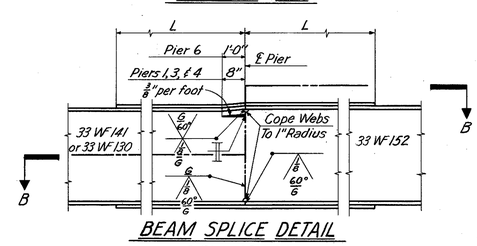
SECTION A-A



BEAM SPLICE DETAIL
@ Piers 2, 5, & 7



SECTION B-B



BEAM SPLICE DETAIL
@ Piers 1, 3, 4, & 6

DEFLECTION AND CAMBER

LOCATION	INSIDE BEAMS SPAN NO. 1	2	3	4	5	6	7	8	OUTSIDE BEAMS SPAN NO. 1	2	3	4	5	6	7	8
Deflection Due To Weight of Steel	1/16"	1/16"	1/16	0"	1/16"	1/16"	0"	1/16"	1/16"	1/16"	1/16"	0"	1/16"	1/16"	0"	1/16"
Deflection Due To Remaining D.L.	1/4"	1/4"	3/8"	1/16"	3/8"	3/8"	1/8"	3/8"	1/4"	1/4"	3/8"	1/16"	7/16"	3/8"	1/8"	3/16"
Convexity Reqd. for Vertical Curve	5/8"	1 1/16"	1 1/16"	13/16"	1 1/8"	1 1/16"	13/16"	1/2"	5/8"	1 1/16"	1 1/16"	13/16"	1 1/16"	13/16"	1/2"	
Sum of Deflection and Convexity	15/16"	1 3/8"	1 1/2"	7/16"	1 3/16"	1 9/16"	15/16"	3/4"	15/16"	1 3/8"	1 1/2"	7/16"	1 5/8"	1 3/16"	15/16"	3/4"
Camber Required	1"	1 3/8"	1 1/2"	1"	1 9/16"	1 9/16"	1"	1"	1"	1 3/8"	1 1/2"	1"	1 5/16"	1 3/16"	1"	1"

NOTES

- All concrete shall be Class "C".
- Refer to Standard Drawing CSB-2-56, Sheets 2 & 3 of 6 Revised 2-2-59 for details of Scuppers, Gutters, Curb Plates, and End Dam.
- Concrete and reinforcing steel above construction joint included with railing for payment.
- Refer to Standard Drawing RB-1-55 for details of Rockers & Bolsters.
- PAINTING: After erection and after the shop coat has been cleaned and, where necessary repainted in accordance with Sec. 5-8.04, an additional coat of the same paint as used in the shop shall be applied over the outside faces of the outside steel beams and all sides of the bottom flange.

MICHAEL BAKER JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

SUPERSTRUCTURE
BRIDGE NO. LAK-1-0127
UNDER EDDY ROAD

LAKE COUNTY STA. 67+24.25

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

Sheet 5 of 6

58-B-190