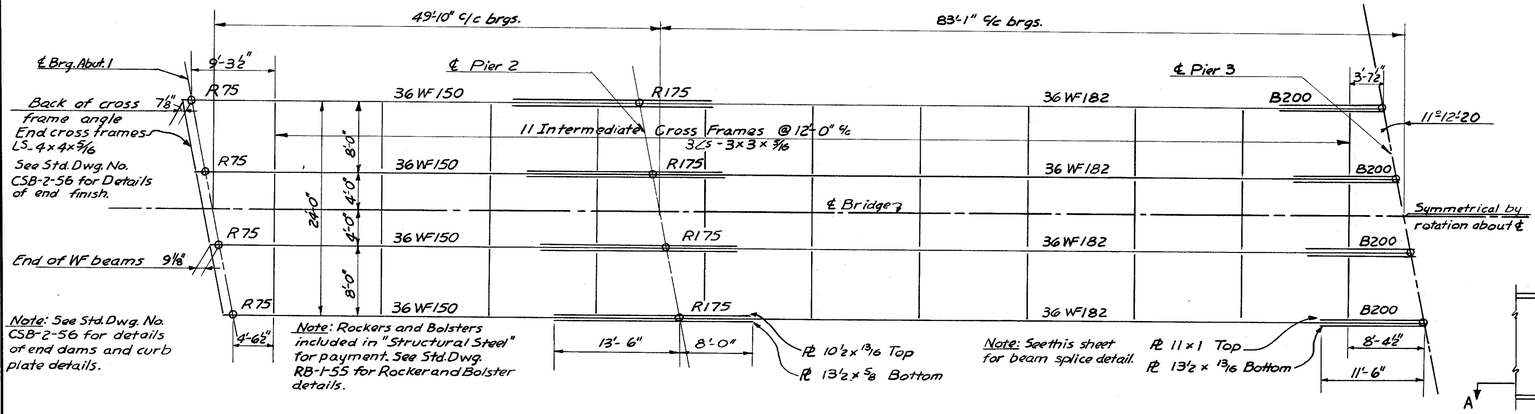
FED HWY DIVISION	STATE	FED AID PROJECT	FISCAL YEAR
2	OHIO	I-1103 (15)	

136
176

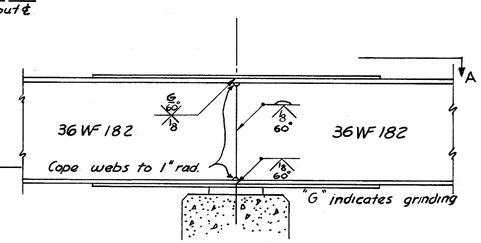
LAKE COUNTY
LAK-1-26.51
ASHTABULA COUNTY
ATB-1-0.00



Note: See Std. Dwg. No. CSB-2-56 for details of end dams and curb plate details.

Note: Rockers and Bolsters included in "Structural Steel" for payment. See Std. Dwg. RB-1-55 for Rocker and Bolster details.

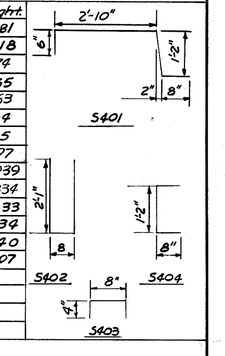
Note: See this sheet for beam splice detail.



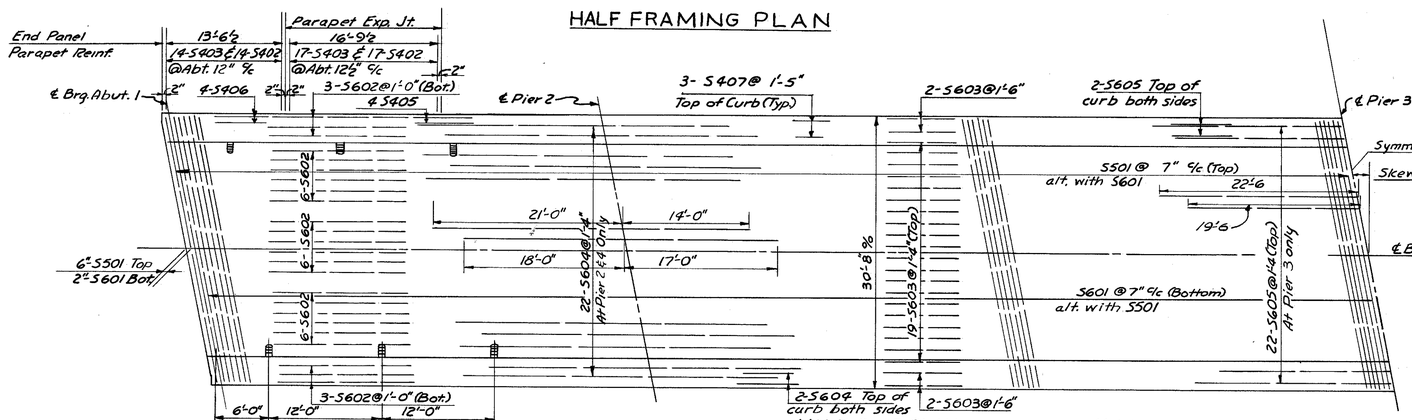
BEAM SPLICE DETAIL
PIER # 3

REINFORCING STEEL LIST
SUPERSTRUCTURE

Mark	Length	Shape	No.	Weight
S401	5'-2"	Bent	458	1581
S402	4'-10"	Bent	532	1718
S403	1'-4"	Bent	532	474
S404	2'-8"	Bent	458	765
S405	16'-9"	Str.	112	1253
S406	13'-6"	Str.	16	144
S407	30'-11"	Str.	54	1115
S501	30'-7"	Str.	457	14577
S601	30'-7"	Str.	458	21,039
S602	28'-8"	Str.	240	10,334
S603	39'-10"	Str.	161	9633
S604	35'-0"	Str.	52	2734
S605	42'-0"	Str.	26	1640
		Total		67,007



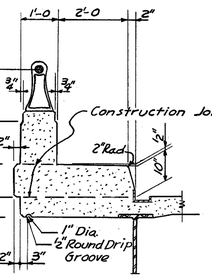
HALF FRAMING PLAN



NOTE: Gutters & Scuppers included in "Structural steel for payment: See Std. Dwg. NO. CSB-2-56 for details.

HALF SLAB PLAN

Note: See General Notes for Slab Pouring Sequence.



PARAPET DETAILS

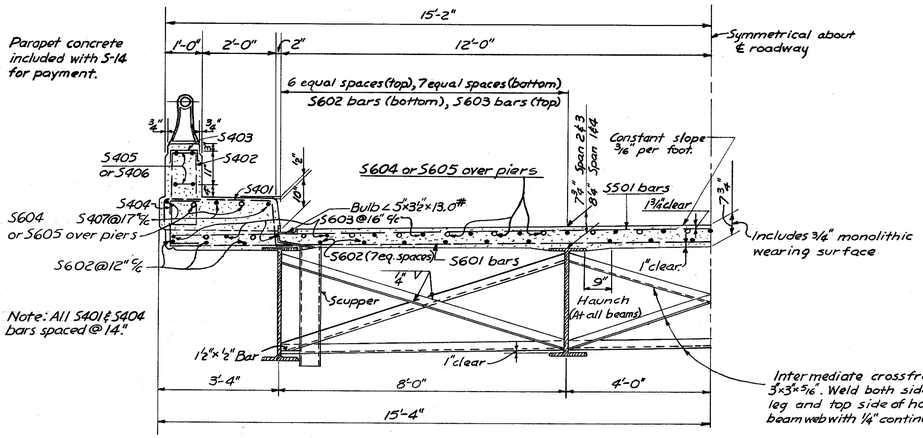
REPLACEMENT BARS			
MARK	LENGTH	SHAPE	NO.
RB401	5'-3	Str.	1
RB501	5'-7	Str.	1
RB601	5'-11	Str.	3
RB701	6'-3	Str.	1
RB901	6'-10	Str.	1
RB1001	7'-3	Str.	1
RB1101	7'-4	Str.	1

Note:
REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in sec. 5-4.02 need not be furnished and replacement bars will not be required.

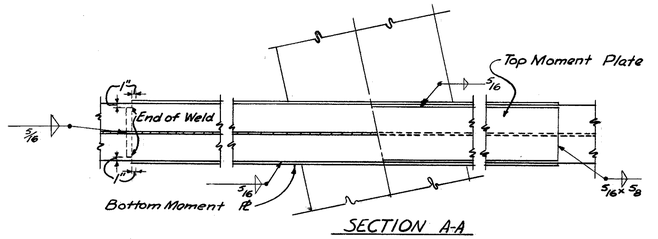
DEFLECTIONS AND CAMBERS

LOCATION	OUTSIDE BEAM SPAN 1	OUTSIDE BEAM SPAN 2	OUTSIDE BEAM SPAN 3	OUTSIDE BEAM SPAN 4	INSIDE BEAMS SPAN 1	INSIDE BEAMS SPAN 2	INSIDE BEAMS SPAN 3	INSIDE BEAMS SPAN 4
DEFLECTION DUE TO WEIGHT OF STEEL	0	3/16"	3/16"	0	0	3/16"	3/16"	0
DEFLECTION DUE TO REMAINING DEAD LOAD	1/16"	1"	1"	1/16"	1/16"	1/2"	1/2"	1/16"
CONVEXITY REQUIRED FOR VERTICAL CURVE	0	1 5/16"	1 5/16"	1/2"	0	1 5/16"	1 5/16"	1/2"
SUM OF DEFLECTION AND CONVEXITY	1/16"	2½"	2½"	9/16"	1/16"	2	2	9/16"
REQUIRED CAMBER	0	2½"	2½"	0	0	2	2	0

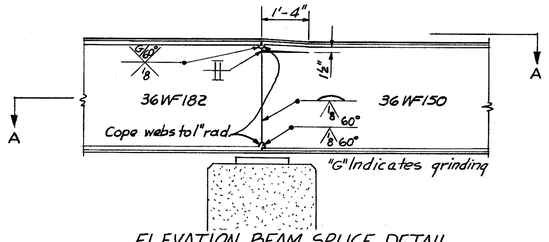
Where No Camber is Required the Beams Shall Be So Fabricated that Any Curved Beam Will Be Placed With Convex Flange Up.



HALF CROSS-SECTION



SECTION A-A



ELEVATION BEAM SPLICE DETAIL
PIER #2 & PIER # 4

BEAM SPLICE WELDING PROCEDURE

1. Erect Span 2 and 3 Beams First.
2. Raise the Pier No. 2 End of Span No. 2 Beams 4"
3. Butt Weld the Beam Flanges and Webs at Pier No. 3, Using the Following Sequence: Make One Pass On Each Flange, then One On the Web; Repeat Until Welds are Complete.
4. Weld the Bottom and Top Moment Pls
5. Lower the Pier No. 2 End of Span No. 2 to the Final Position
6. Raise the Abutment End of Span No. 1 ⅞".
7. Repeat Steps 3 and 4 at Pier No. 2
8. Lower Abutment End of Span No. 1 to Final Position.
9. Repeat Steps 3, 4, 6, & 8 at Pier 4 and Abut. 5

CHARLES L. BARBER AND ASSOCIATES
HARRY BALKE ENGINEERS
TOLEDO, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE Nº LAK-1-2696
SR 1 UNDER BATES ROAD
LAKE CO SR 1
STA. 42+78.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
L.T.T.	L.H.	A.J.S.	R.G.E.	A.C.A.	8/28/57	