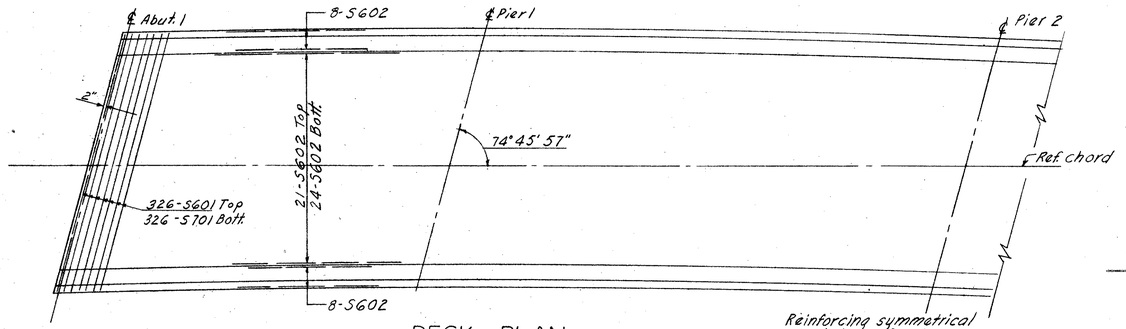
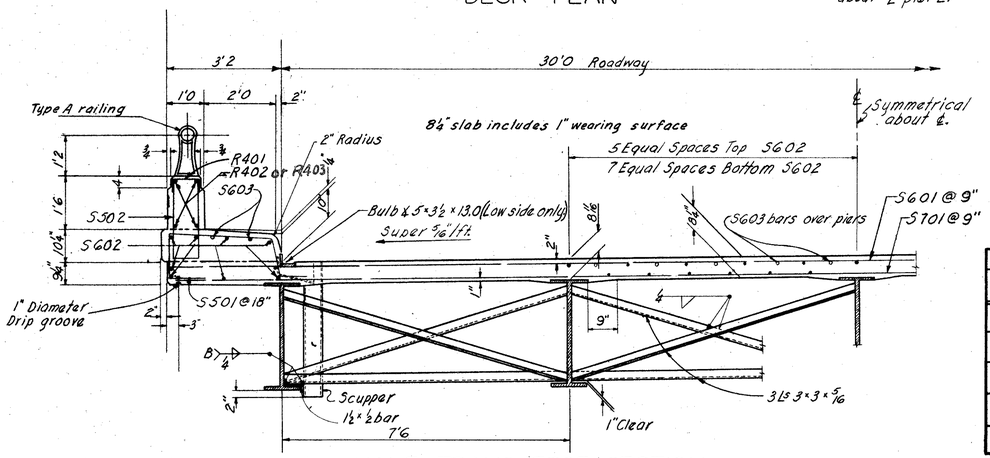
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-329 (16)	

249
268

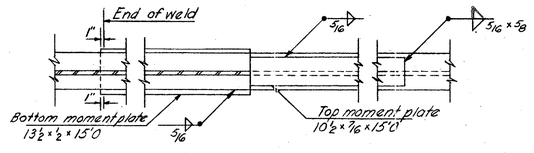
LAKE COUNTY
LAK-2-7.39



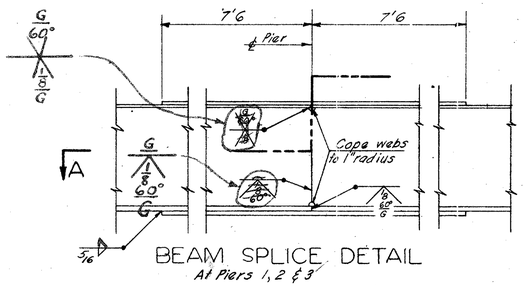
DECK PLAN



HALF TRANSVERSE SECTION
(Between Piers)



SECTION A-A



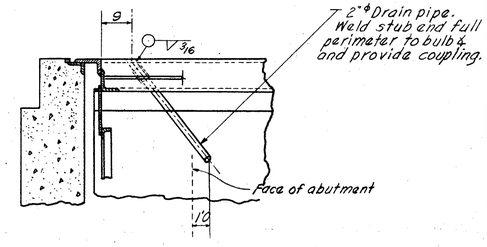
BEAM SPLICE DETAIL
At Piers 1, 2 & 3

"G" indicates grinding

DEFLECTION AND CAMBER				
LOCATION	OUTSIDE BEAMS END SPANS	OUTSIDE BEAMS MIDDLE SPANS	INSIDE BEAMS END SPANS	INSIDE BEAMS MIDDLE SPANS
DEFLECTION DUE TO WEIGHT OF STEEL	1 1/8"	1 1/8"	1 1/8"	1 1/8"
DEFLECTION DUE TO REMAINING DEAD LOAD	1/2"	5/8"	15/16"	15/16"
CONVEXITY REQUIRED FOR VERTICAL CURVE	1/4"	1/2"	1/4"	1/2"
SUM OF DEFLECTION AND CONVEXITY	1 7/8"	1 1/4"	2 1/16"	1"
REQUIRED CAMBER	1"	1"	1"	1"

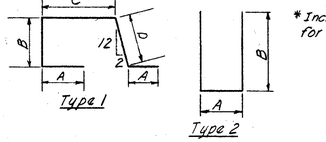
BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at rear pier 2¾".
2. Butt-weld beam flanges and web at center pier using the following sequence: make one pass on each flange, then one on the web; repeat until welds are complete.
3. Weld top and bottom flange moment plate at center pier.
4. Lower end of beam at rear pier.
5. Make beam splice at rear pier in same manner raising abutment end of beam 1 3/16" - 2 3/16".
6. Make beam splice at forward pier in same manner raising abutment end of beam 1 1/4" - 3 1/4".



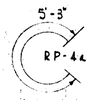
SCUPPER DETAIL AT END FINISH

SUPERSTRUCTURE									
Mark	No	Length	Type	A	B	C	D	E	Weight
S501	326	8'-7	1	1'7	1'3	2'9	1'5		2915
S502	326	4'-6	2	6	2'0				1530
S601	326	37'0	Str.						18120
S602	366	42'7	Str.	6 sets @ 61 = 366					23450
S603	72	30'0	Str.						3245
S701	326	37'0	Str.						24650
									73910
RAILING									
R401	326	2'-6	2	6	1'0				*
R402	~~48~~ 49	~~326~~ 327	017'-6"	Str.					*
R403	16	14'-3"	Str.						*

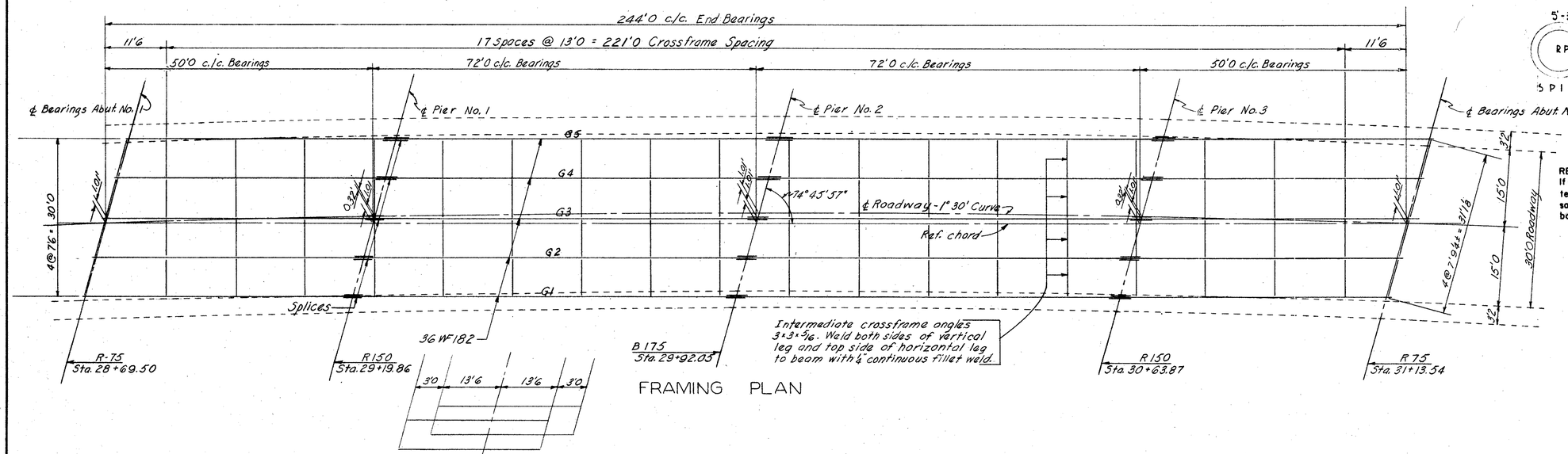


* Include with Item S-14 for payment.

REPLACEMENT BARS					
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT
RP 4	2	4	5'-3"	Str.	
RP 5	4	5	5'-7"	Str.	
RP 6	4	6	5'-11"	Str.	
RP 7	4	7	6'-3"	Str.	
RP 8	2	8	6'-6"	Str.	
RP 9	2	9	6'-10"	Str.	
RP 11	4	11	7'-7"	Str.	
RP 4a	1	4	5'-3"	B	



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. 4.02 need not be furnished and replacement bars will not be required.



FRAMING PLAN

STAGGER FOR S603 BARS OVER PIERS

SEC. L-32 FED. AID PROJ. NO. F-329 (16)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

STEEL FRAMING
BRIDGE NO. LAK-2-1025
S.R. 2 UNDER MUNSON ROAD
LAKE COUNTY
STA. 441+28.08

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
M			P		4-1-59