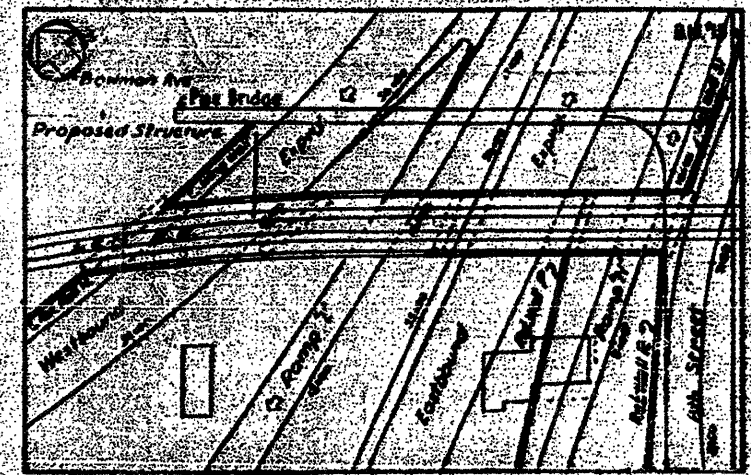
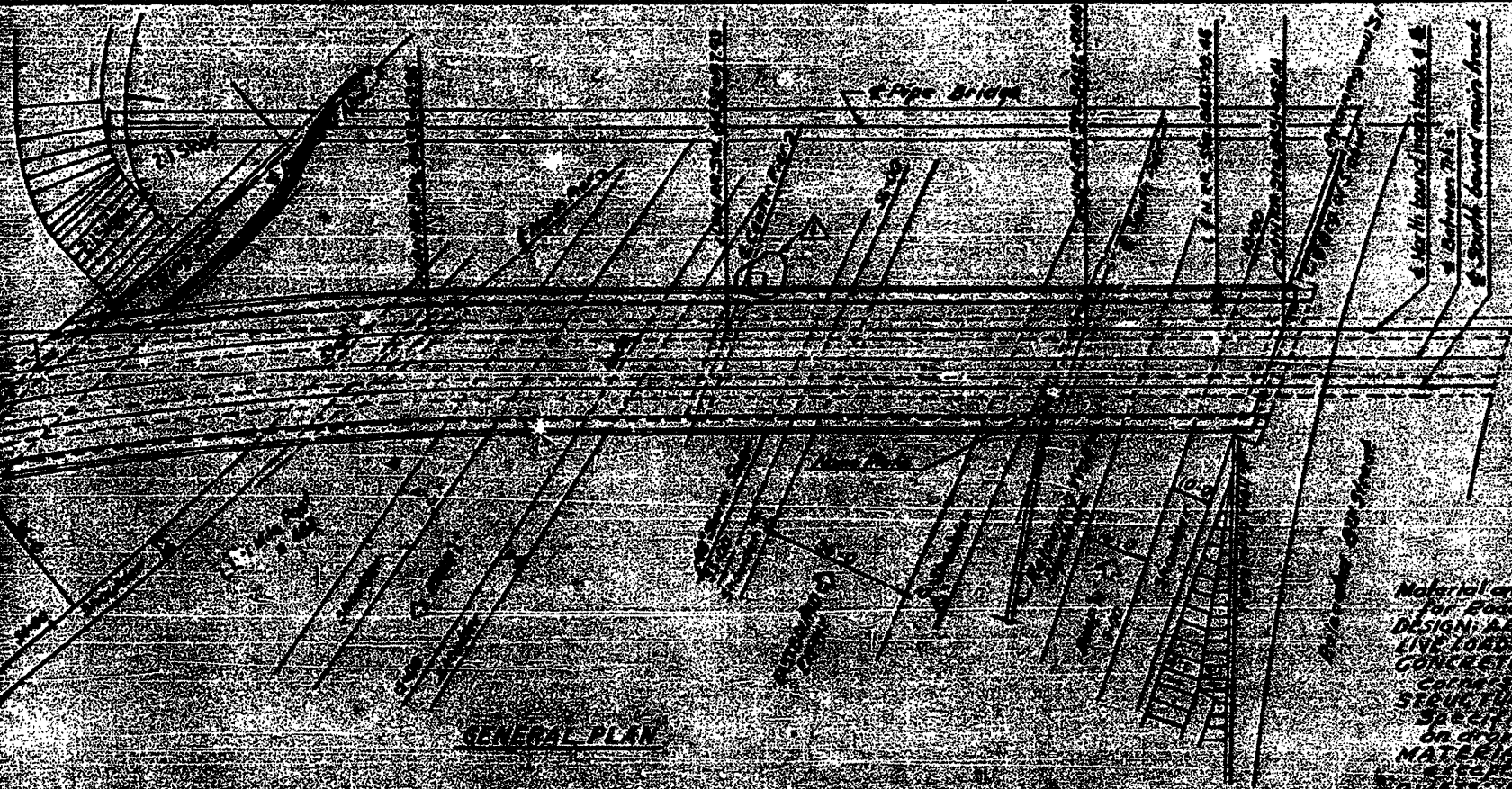


PLAN No. 14
 East Side of Shawnee Ave.
 South Side of E. St. Louis
 Iron and Steel Bridge
 250' x 30' x 12'

SECTION	COUNTY	TOTAL SHEETS
7-10	ST. CLAIR	11
ILLINOIS PROJECTS-70-1120		



LOCATION PLAN

GENERAL NOTES

Material and workmanship shall be in accordance with "Standard Specifications for Road and Bridge Construction, State of Illinois, adopted January 6, 1956." DESIGN AND CONSTRUCTION SPECIFICATIONS EXCEPT AS NOTED BELOW AND SHOWN ON DRAWINGS.

LIVE LOAD: COMBINATION
 CONCRETE: Type I Concrete shall be used throughout. All exposed edges and corners of concrete shall be chamfered.

STEEL: All steel shall be fabricated in accordance with A.S.T.M. Specifications for Steel Railway Bridges (C2222), except as noted on drawings.

MATERIAL: Open hearth structural and rivet steel, A.S.T.M. A7 and A16 (current), except as noted shall be of best steel annealed as noted.

RIVETS: Hot dip galvanized.

ROLLER CONNECTIONS: As riveted.

COUPLER PLATES: All plates with both edges rolled shall be used for cover to bolts. Fillets shall be milled to bear on bottom flange. Fillets shall be ground to fit the fillets of the flange.

THE BACK OF ALL FLOOR PLATES OF GIRDERS SHALL BE IN A TRUE PLANE (perpendicular to center line of girder) for the full width of the flange and the fillets. The fillets shall be milled to bear on the bottom flange.

ALL SPICES SHALL BE MATCHED WITH THE BACKS OF THE TOP AND BOTTOM DIAPHRAGMS TO AVOID GROOVES THAT WILL HOLD WATER. NO WORKING OF STEEL WILL BE PERMITTED EXCEPT AS NOTED.

REINFORCEMENT: Reinforcement shall be of the best quality, with splice plates and bent-up bars (except as noted) shall be sub-punched 3/16" and located to the width of the bars in lateral, lateral plates, diaphragms, stiffeners and their fills, and 1/4" of end stiffeners, may be bent-up bars.

ANCHOR BOLTS: 1/2" or in necessary to anchor.

PAINT: See notes 561 to 565 inclusive of the Standard Specifications.

SHOULDER: The road bed and lip shall be finished and accepted by the Inspector. Field and first and second day coats shall be Aluminum paint.

ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR INVOLVED.

ALL ROLLER CONNECTIONS, PLATES AND BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH A.S.T.M. SPECIFICATIONS FOR STEEL RAILWAY BRIDGES (CURRENT) AND ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL ESTIMATED WEIGHT 48,750 LB.

ALL STEEL EXPANSION DEVICES, BOLTS, PLATES AND ANCHORS AND THE PERMISSIBLE TOLERANCES SHALL BE FABRICATED AND SET IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL ESTIMATED WEIGHT 59,450 LB.

GENERAL PLAN



DESIGN STRESSES

1. $f_s = 16,000$ psi (allowable)
 2. $f_c = 14,000$ psi (allowable)
 3. $f_r = 10,000$ psi (allowable)
 4. $f_t = 18,000$ psi (allowable)

ELEVATION

GENERAL NOTES CONTINUED

REINFORCEMENT: Reinforcement shall be of the best quality, with splice plates and bent-up bars (except as noted) shall be sub-punched 3/16" and located to the width of the bars in lateral, lateral plates, diaphragms, stiffeners and their fills, and 1/4" of end stiffeners, may be bent-up bars.

THE BRIDGE SHALL BE CONSTRUCTED TO REMAIN IN SERVICE FOR A PERIOD OF YEARS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDS.

STA. 55+11.29
 BUILT IN
 STATE OF ILLINOIS
 F.A. RT. TO SEC. 52-2-25
 F.A. PROJECT NO. 1-100
 LOADING 172

TOTAL BILL OF MATERIAL FOR BRIDGE TO T. PIPE BRIDGE AND WELLS IN '0, '2, '3'

UNIT	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
CY	EXCAVATION	100	1.50	150.00
CY	CONCRETE	150	1.50	225.00
CY	GRAVEL	100	1.50	150.00
CY	BRICK	100	1.50	150.00
CY	CASTLE CONCRETE	100	1.50	150.00
CY	STEEL WELLS	100	1.50	150.00
CY	STEEL PILES	100	1.50	150.00
CY	TEST PILE (CONCRETE)	100	1.50	150.00
CY	TEST PILE (STEEL)	100	1.50	150.00
CY	TEST PILE (WOOD)	100	1.50	150.00
CY	TEST PILE (OTHER)	100	1.50	150.00
CY	STEEL PIPE	100	1.50	150.00
CY	STEEL WELLS	100	1.50	150.00
CY	STEEL PILES	100	1.50	150.00
CY	STEEL WELLS	100	1.50	150.00
CY	STEEL PILES	100	1.50	150.00
CY	STEEL WELLS	100	1.50	150.00
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CY	STEEL WELLS	100	1.50	150.00
CY	STEEL PILES	100	1.50	150.00
CY	STEEL WELLS	100	1.50	150.00
CY	STEEL PILES	100	1.50	150.00
CY	STEEL WELLS	100	1.50	150.00

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS
 CITY OF EAST ST. LOUIS
 EAST ST. LOUIS EXPRESSWAY
 I. B. R. R. OVER WEST BOUND EXPWAY,
 RAMP '1', EAST BOUND EXPWAY AND RAMP '2'

Revision 6-18-51
 H. B. LECHNER, INC.
 ENGINEERS
 CHICAGO, ILLINOIS
 DATE JULY 1950

GENERAL PLAN
 SHEET A-17

SEE REVISION 6-18-51
 CONCRETE: 257 LB. REINFORCEMENT BARS TO BE IN PIPE HANDRAIL (COLUMBIAN).