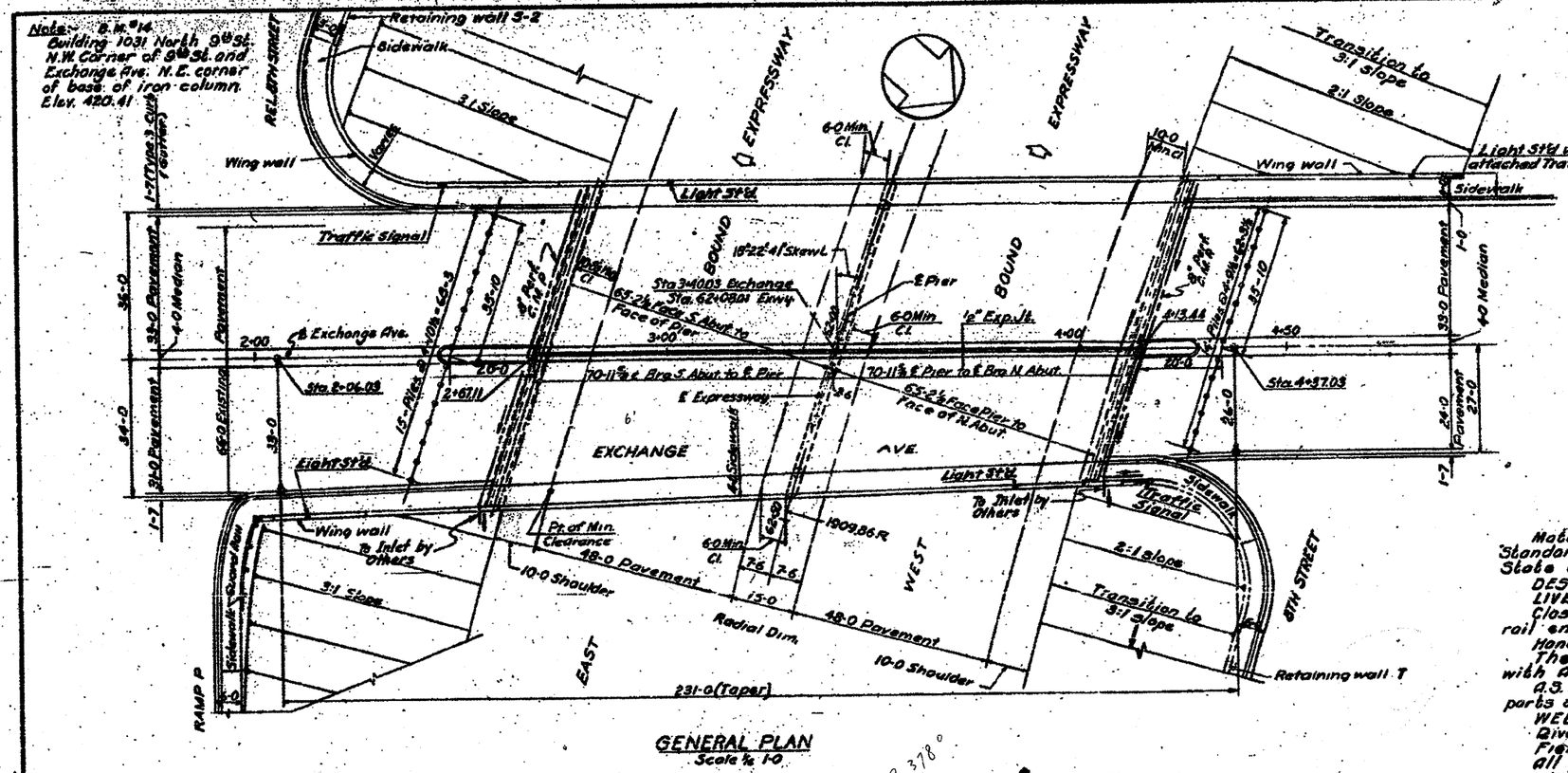
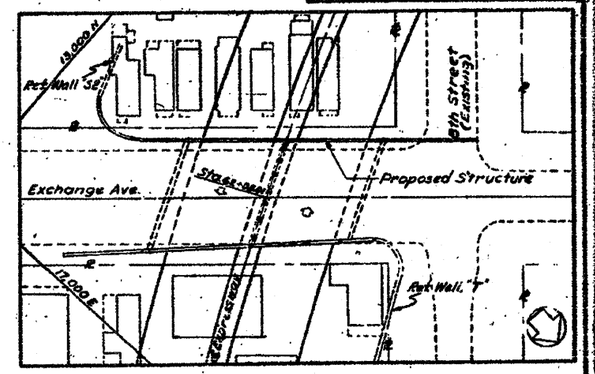
FEDERAL AID SERIES NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-2HB-3	ST. CLAIR	79	25

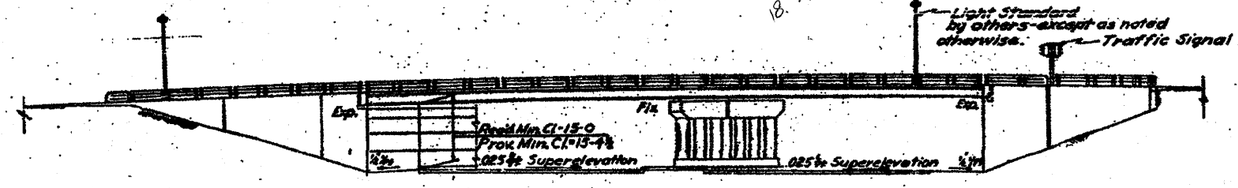
Note:- B.M. #14
Building 1031 North 9th St.
N.W. Corner of 9th St. and Exchange Ave. N.E. corner of base of iron column.
Elev. 420.41



GENERAL PLAN
Scale ⅛ 1-0



LOCATION PLAN
SCALE 1" = 50'-0"



ELEVATION
Scale ⅛"-1-0"

TOTAL BILL OF MATERIAL FOR BRIDGE NO. 8 & WALLS (S2,T,U,V)

UNIT	DESCRIPTION	SEC. 82-2-HB3 SUPER STRUCTURE	SUB STRUCTURE	TOTAL
CY	CLASS A EXCAVATION FOR STRUCTURES		3836	3836
CY	CLASS X CONCRETE	284.1	2091.2	2375.3
CY	HANDRAIL CONCRETE	1.7	-	1.7
LB	REINFORCEMENT BARS	58,220	157,290	215,510
LB	STRUCTURAL STEEL	389,350		389,350
LF	METAL HANDRAIL	483	113	596
Ea.	TEST PILES (CONCRETE)		3	3
LF	FURNISHING CONCRETE PILES		6570	6570
LF	DRIVING CONCRETE PILES		6570	6570
EA.	NAME PLATE	2		2
L.F.	Driving Timber Piles.		14,737	14,737
L.F.	Furnishing Creosoted Piles. (20.1' to 38')		7,377	7,377
L.F.	Furnishing Creosoted Piles (up to 21')		7360	7360
EA.	Test Piles (Timber)		6	6
L.F.	8"ø Perf. C.M.P.		1,295	1,295
C.Y.	Special Excavation		14,792	14,792
L.F.	Chain Link Fence		210	210

GENERAL NOTES

Material and workmanship shall be in accordance with "Standard Specification for Road and Bridge Construction" State of Illinois, adopted Jan. 2, 1958.

DESIGN:- AASHO 1953 Specifications, except as noted below.

LIVE LOAD:- M 20-S16-44

Class X Concrete shall be used throughout except in handrail endposts.

Handrail concrete shall be used in handrail endposts.

The concrete floor slab shall be finished in accordance with Article 31.19 of the Standard Specifications.

A.S.T.M. designation A373 steel shall be used in all welded parts designed to carry stress.

WELDING and DAINTING: See specifications.

Rivets ⅞"ø; open holes 15/16" unless noted.

Field connections riveted unless noted.

All girder splices shall be punched 1/16" and reamed to size while shop assembled.

All rockers, bolsters, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 51.13 of the Standard Specifications and are included for payment as Structural Steel. Est. Wt. 12350 lb.

Anchor bolts shall be set before riveting diaphragms over supports.

The roadway expansion guards shall be fabricated and erected to fit the crown of roadway.

The following surfaces of expansion guards shall be given two shop coats of red lead paint: the backs of the vertical legs of the angles.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 36.1 to 36.5 inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor.

EARTH PRESSURE: The horizontal pressure shall be that of fluid weighing 40 p.c.f. and the vertical pressure in such instance that at a fill weighing 120 p.c.f.

PILES:- They shall be concrete and timber piles with a min. load capacity as shown on plans. Test Piles (Concrete & Timber) shall be driven in permanent locations shown on the plans as directed by the Engineer before ordering remainder of piles.

PILE DATA
(Approach Slab Bents)

No. Req'd. { 14 @ North Abutment. / 15 @ South Abutment.

Min. Capacity = 15 Ton

Type = Creosoted Piles

Estimated Length = 30'

870 l/n. ft. (20.1 to 38') piles

The back of abutment walls, wing walls and retaining walls shall be waterproofed from top of footing to ground surface in accordance with Article 8.2.1 of the Standard Specifications.

DESIGN-STRESSES

fc = 1,400 p.s.i. (Superstructure)
fc = 1,000 p.s.i (Substructure - with earth pressure)
fs = 20,000 p.s.i. (Reinforcement)
fs = 18,000 p.s.i. (Structural Steel)
n = 10
v = 75 p.s.i. (Footings)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

EXCHANGE AVE. OVER EXPRESSWAY (SR 9)

GENERAL PLAN & BILL OF MATERIAL

H. W. LOCHNER, INC.
ENGINEERS
DATE JANUARY 1958 CHICAGO, ILLINOIS SHEET NO. 1