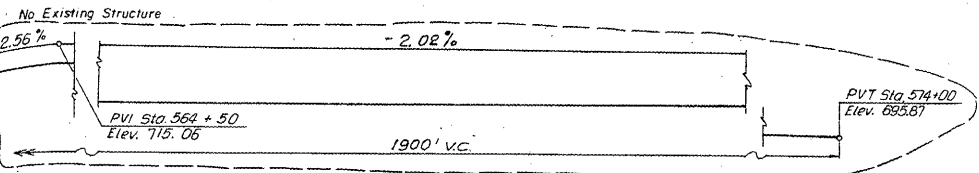
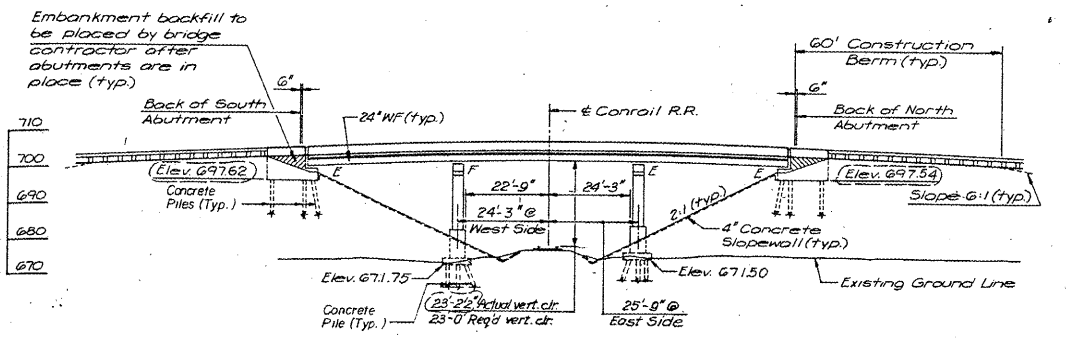


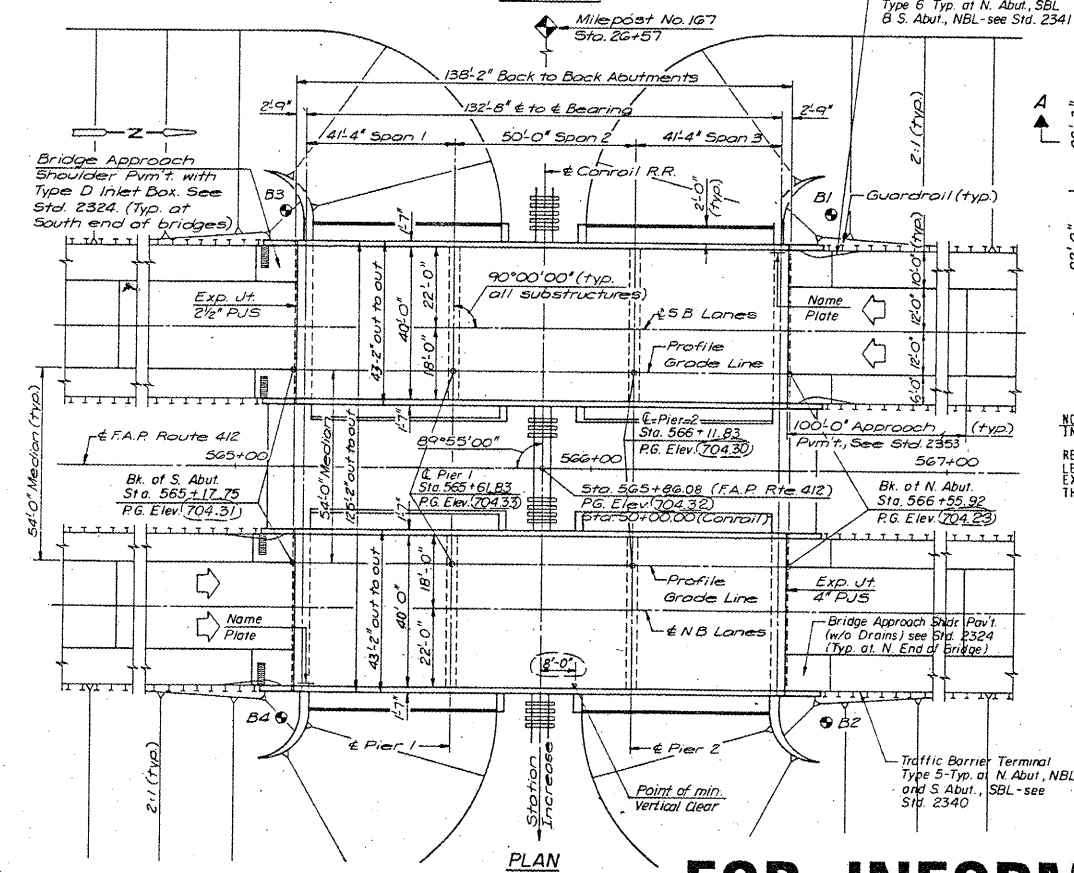
B.M. Data = 18A-Railroad Spike in the Power Pole at Sta. 566+35, 164' Left, Elev. 677.197



F.A.P. ROUTE 412 PROFILE GRADE LINE



ELEVATION



PLAN

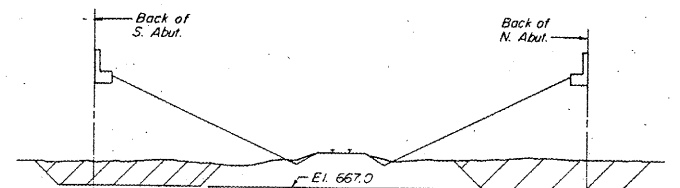
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

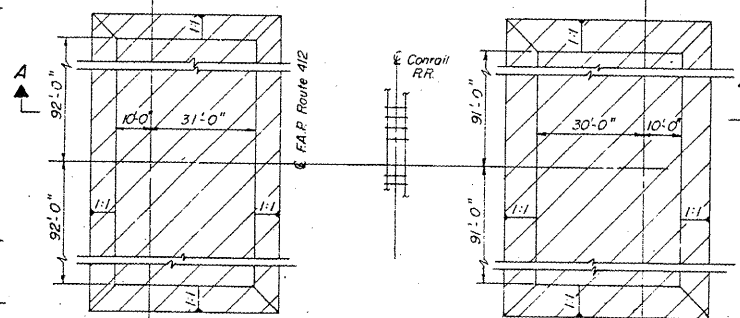
DESIGN SPECIFICATIONS: American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Highway Bridges, 1983, with 1984 Interim Provisions.

DESIGN LOADING: Live load is AASHTO HS 20-44. Allowance for future wearing surface is 25 psf.

UNIT STRESSES: Concrete:  $f'_c = 3,500$  psi  
Reinforcing Steel:  $f_y = 60,000$  psi  
Structural Steel:  $f_y = 50,000$  psi M223 Gr. 50  
 $f_y = 36,000$  psi M183



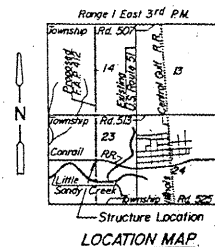
ELEVATION A-A



PLAN

NOTES: HATCHED AREA INDICATES REMOVAL WHICH HAS BEEN INCLUDED IN THE EARTHWORK TABLE AND PAID FOR AS EARTH EXCAVATION.  
REPLACE WITH POROUS GRANULAR MATERIAL TO 2'-0" ABOVE WATER LEVEL. IF ANY WATER IS IN THE EXCAVATION AT TIME OF REPLACEMENT, THIS ALSO IS REFLECTED IN THE EARTHWORK TABLE.

REMOVAL & REPLACEMENT  
OF UNSUITABLE SOILS



LOCATION MAP

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

*James J. Fausch*  
Engineer of Bridges and Structures

TOP OF TRACK ELEVATIONS

STATION	NO. RAIL ELEVATION	SO RAIL ELEVATION
45+00	676.76	676.76
46+00	676.99	677.00
47+00	677.26	677.26
48+00	677.51	677.51
49+00	677.73	677.73
50+00	677.98	677.97
51+00	678.25	678.24
52+00	678.58	678.57
53+00	679.02	678.90
54+00	679.37	679.18
55+00	679.79	679.60

FAP ROUTE NO.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
412	50-IVB	LASALLE		28A

GENERAL NOTES

- REINFORCEMENT: Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60. Bars shown thus  $\square$  #4 etc. indicate 8 lines of bars with 7 lengths per line. Reinforcement bars designated (E) shall be epoxy coated. All dimensions relating to reinforcing bars are to center of bars unless otherwise shown. Dimensions relating to bending of bars are out to out of the bar.
- STRUCTURAL STEEL: Fasteners shall be high strength bolts having 7/8" diameter with 15/16" diameter open holes unless otherwise noted. Calculated weight of structural steel = 123,760 pounds (M223, Gr. 50) 30,650 pounds (M183). The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material for the wide flange beams.
- PAINTING: The zinc-silicate and vinyl paint system shall be used for shop and field painting of structural steel except where otherwise noted.
- FIELD WELDING: Field welding of construction accessories will not be permitted. The flange of stringer near to the top flange for a distance equal to 1/4 span length each way from supports. Field welding in other areas will be permitted only when approved by the Engineer.
- BORING DATA: See proposal for boring data.
- CONCRETE: Exposed edges of concrete shall be chamfered 3/4 inch unless otherwise shown.
- BEARING SEATS: Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Any necessary adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims of the dimension of the bottom bearing plate shall be provided for each bearing in addition to all other plates or shims. (For Type I Elastomeric Bearings, shims of the dimensions of top plate shall be provided and placed as detailed).
- ANCHOR BOLTS: Anchor bolts shall be set before bolting diaphragms over supports.
- EMBANKMENT: The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- CONCRETE PILES: Concrete piles at abutments shall be driven in holes placed through the embankment in accordance with Article 53(D)(a) of the Standard Specifications. For concrete test pile notes and locations, see dwgs C9 and C11.

Tightening and inspection of all high strength bolt connections shall conform to the requirements of the latest issue of the Specification for Structural Joints using ASTM A325 (M16) or A490 (M253) bolts for slip-critical connections, except tightening methods using either the load indicating washers or the calibrated wrench are not allowed.

LEGEND

- ☐ Direction of traffic flow
- F Fixed bearing
- E Expansion bearing
- ⊕ 6" Tubular Floor Drain
- ⊙ Boring Location

GENERAL PLAN, ELEVATION AND NOTES

F.A.P. ROUTE 412 OVER CONRAIL RAILROAD  
F.A.P. ROUTE 412-SECTION 50-IVB  
LASALLE COUNTY  
STA. 565+86.08  
STRUCTURE NUMBERS 050-0210(SB)/050-0211(NB)

DESIGNED BY	DRAWN BY	CHECKED BY	DATE	DRAWING NO.
JMG	JMG	JMG	June 26, 1987	C1

Rev. 3-16-89

FOR INFORMATION ONLY

FILE NAME	USER NAME	DESIGNED	REVISED
c:\pwwork\KPH\DOT\WOODSHANK\KRL\dms51813	woodshank-1	RON WOODSHANK	
		DRAWN	REVISED
		RON WOODSHANK	
		CHECKED	REVISED
		DATE	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
SCALE: SHEET NO. 1 OF 5 SHEETS STA. 565+17.75 TO STA. 566+55.92

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	50-IVB/BP	LASALLE	11	7

CONTRACT NO. 66878