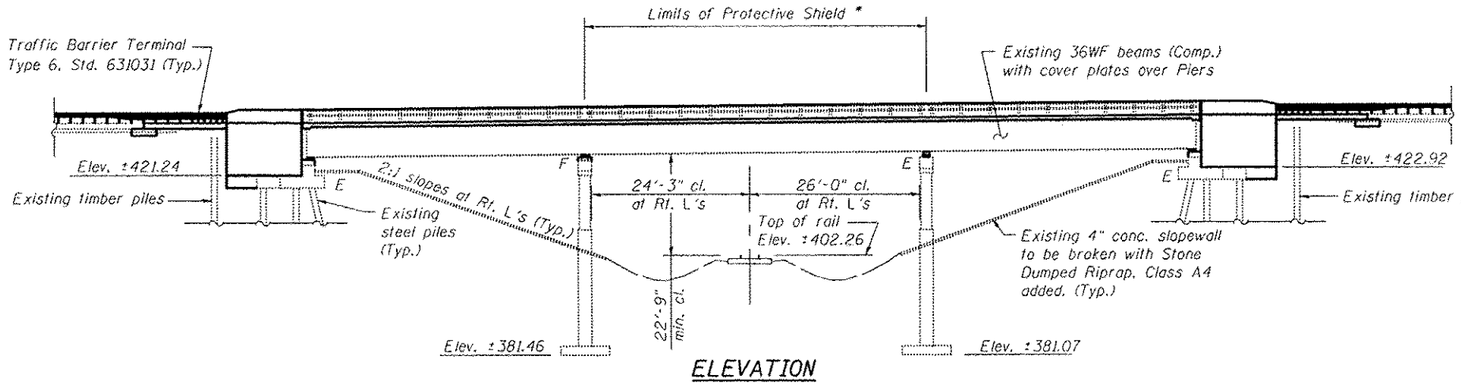
Bench Mark: Cut "□" on bridge curb at N.W. corner of S.N. 079-0020 Elev. 429.14

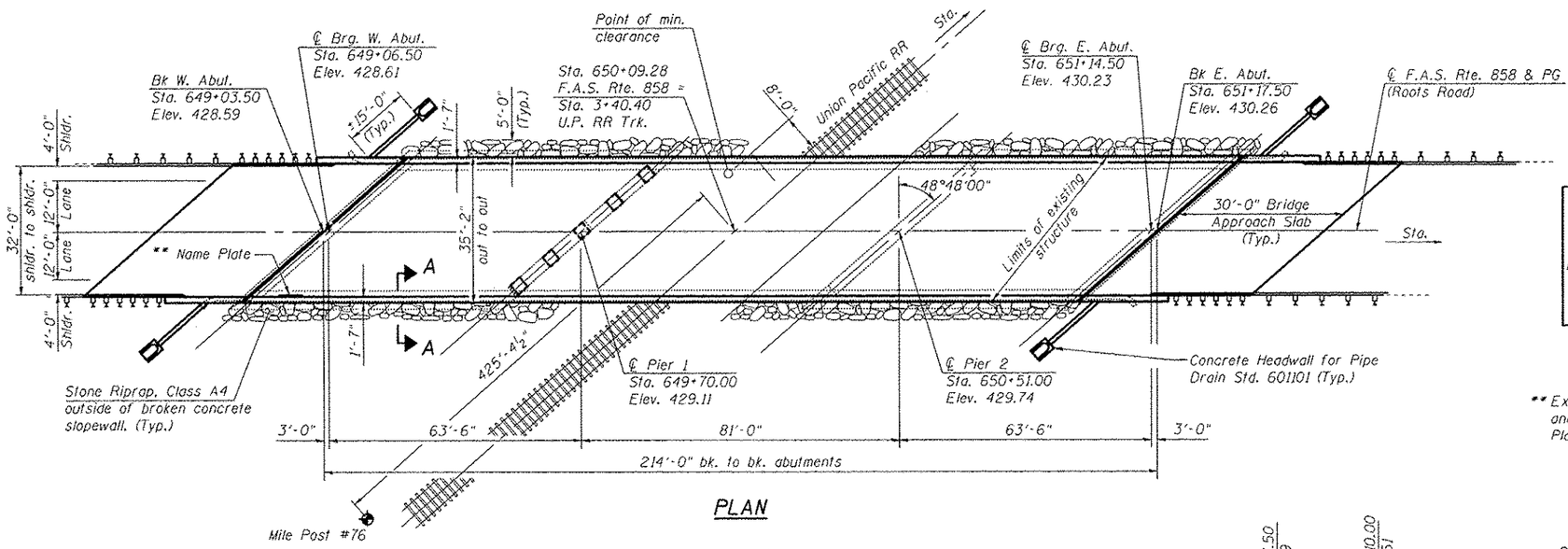
Existing Structure: #079-0020 was constructed in 1960 under F.A. 182 Section 12VB at Sta. 650+10.50. The structure consists of a three span non-composite reinforcement concrete deck on steel stringers. The spans measure 63'-6", 81'-0" and 63'-6" respectively. The out-to-out width is 33'-8" with a roadway width of 28'-0" and back-to-back of abutment length of 214'-0". The structure is supported on steel piles at the abutments and spread footings at the piers. Traffic to be detoured during construction.

No Salvage

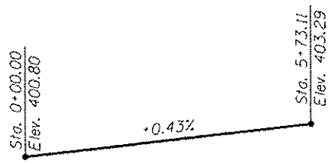
* See Sheet 2 of 26 for limits of Protective Shield



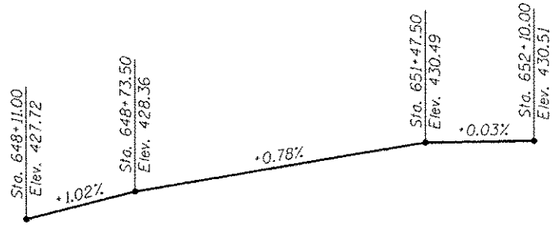
ELEVATION



PLAN



PROFILE GRADE
(Union Pacific RR)



PROFILE GRADE
(F.A.S. 858)

IDEX OF SHEETS

Note:
For Section A-A see sheet 23 of 26.

LOADING HS20-44

No future wearing surface allowed.

DESIGN SPECIFICATIONS

SUPERSTRUCTURE

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

EXISTING STRUCTURE

f'c = 3,500 psi
fy = 40,000 psi (Reinforcement)
fy = 33,000 psi (Structural Steel)

NEW CONSTRUCTION

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

STATION 650+10.50
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 858 SEC. 12VB-II
LOADING HS20-44
STRUCTURE NO. 079-0020

NAME PLATE

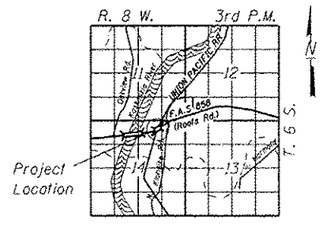
See Std. 515001

** Existing Name Plates to be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

SEISMIC DATA

Seismic Performance Category (SPC) = B
Horizontal Bedrock Acceleration Coefficient (A) = 0.13g
Site Coefficient (S) = 1.2

APPROVED
For Structural Adequacy Only
P. Carl Puzey 12/13/12
Engineer of Bridges & Structures



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ROOTS RD. OVER UNION PACIFIC R.R.
F.A.S. RTE. 858 - SEC. 12VB-II
RANDOLPH COUNTY
STATION 650+10.50
STRUCTURE NUMBER 079-0020

LICENSED STRUCTURAL ENGINEER — CHADWICK J. FUESTING 081-005834 — STATE OF ILLINOIS
EXP. 11-30-2014
Chadwick Justin Fuesting 12/13/12

FILE NAME = \sheet 01 (cover)\dgn	USER NAME = adam	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
BERNARDINI LOOSMILLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4000 FAX (618) 288-4004	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 1 OF 26 SHEETS		
	PLOT SCALE =	DRAWN - WJS	REVISED -				
	PLOT DATE = 1:53:39 PM 12/13/2012	CHECKED - CJF	REVISED -				

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
858	12VB-11	RANDOLPH	72	47
		CONTRACT NO. 76409		
		ILLINOIS FED. AID PROJECT		