

Benchmark: Chiseled "□" top of Northwest wingwall of SN 006-0009 Sta. 422+56.68, 24.27' Rt. Elev. = 645.90

Existing Structures: SN 006-0009 (EB) and SN 006-0010 (WB) Built in 1963 as F.A.I. 80, Section 06-2B, at Sta. 423+15. Existing Superstructure consists of concrete deck on steel beams with a bituminous overlay. The Substructure consists of reinforced concrete spill-thru abutments supported by concrete piles and reinforced concrete solid shaft piers supported by a spread footing and timber piles. 109'-0" Bk. to Bk. abutments. 43'-8" out-to-out deck. Concrete deck to be removed and replaced using stage construction.

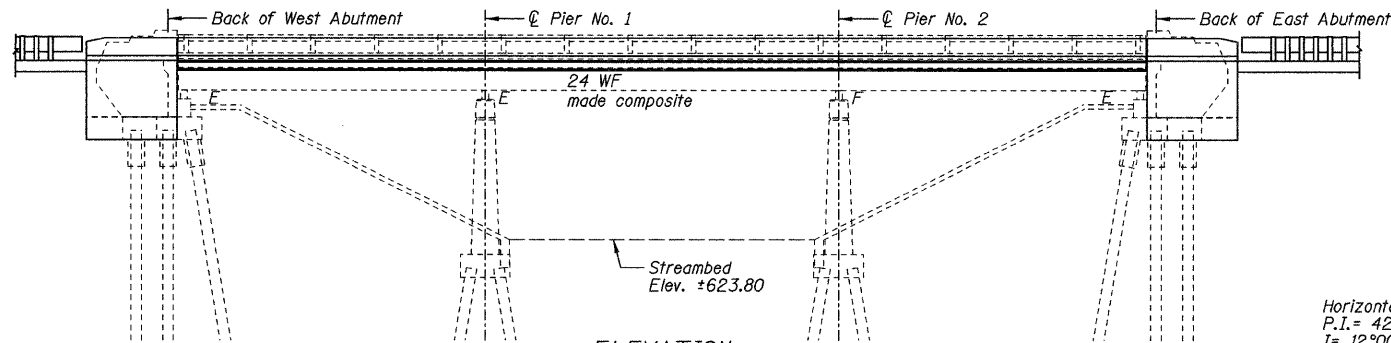
No Salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

See Sheet 2 of 25 for Index of Bridge Plans, Total Bill of Materials and General Notes

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 29 SHEETS
F.A.I. 80	*	BUREAU	116	79	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #66623  
\* (06-1, 2)RS-3, I

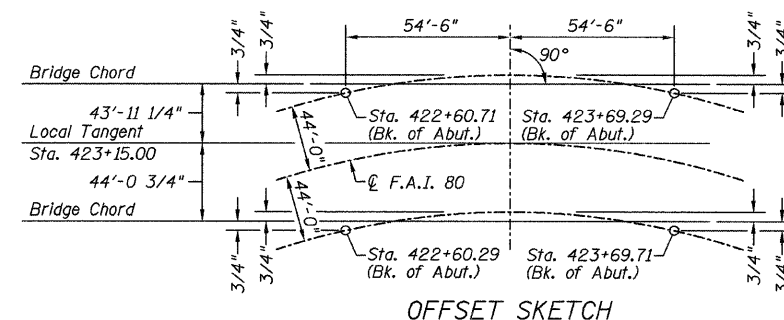


ELEVATION

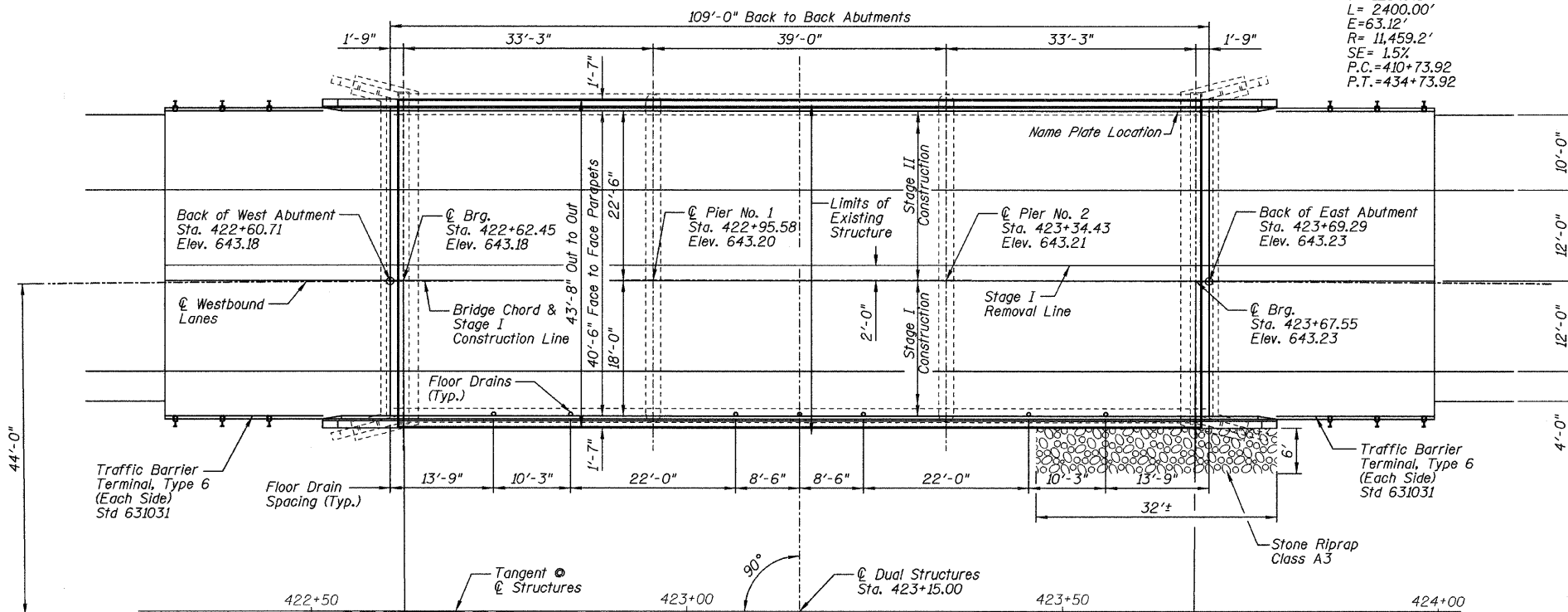
STATION 423+15  
RE-BUILT BY  
STATE OF ILLINOIS  
F.A.I. 80 SEC. (06-1, 2)RS-3, I  
LOADING HS-20-44  
STR. NO. 006-\_\_\_\_\_

NAME PLATE  
See Std. 515001

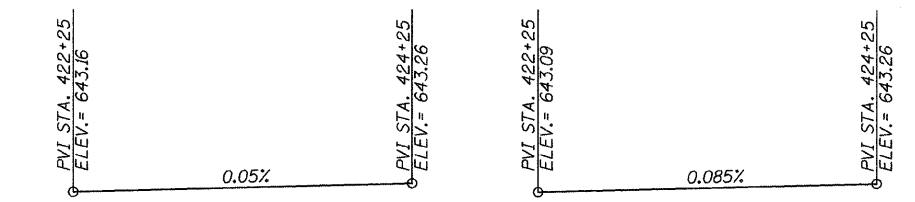
Horizontal Curve Data  
P.I. = 422+78.33  
I = 12°00'00"  
D = 0°30'00"  
T = 1204.41'  
L = 2400.00'  
E = 63.12'  
R = 11,459.2'  
SE = 1.5%  
P.C. = 410+73.92  
P.T. = 434+73.92



OFFSET SKETCH



PLAN



PROPOSED PROFILE SN 006-0010  
(I-80 WBL)

PROPOSED PROFILE SN 006-0009  
(I-80 EBL)

SCOPE OF WORK

1. Remove and replace existing concrete deck.
2. Jack and remove existing bearings at the abutments and install new elastomeric bearings.
3. Slope wall repair.
4. Epoxy crack injection of cracks on the abutments, and piers.
5. Structural repair of concrete at all appropriate areas on the abutments, piers, and slopewalls.
6. Place Class A3 riprap at the southeast wingwall of SN 006-0010.
7. Remove and replace existing preformed expansion joints with strip seal joints.
8. Remove and replace wingwalls.
9. Beams are to be composite in positive moment regions.

LOADING HS20-44 & ALT. MIL. LOAD (New Const.)

Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS (New Const.)

2002 AASHTO

DESIGN STRESSES

FIELD UNITS (New construction)

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

FIELD UNITS (Exist. construction)

$f'_c = 3,500$  psi  
 $f_y = 40,000$  psi (reinforcement)  
 $f_y = 36,000$  psi (structural steel)

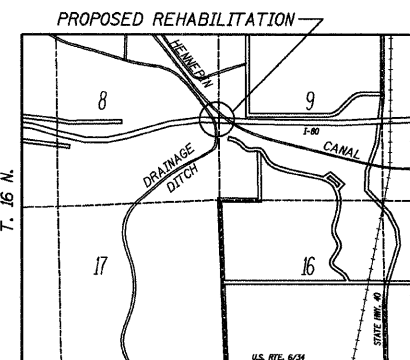
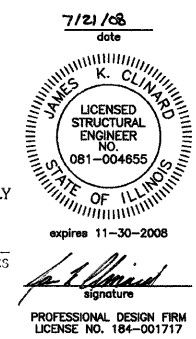
SEISMIC DATA

S.P.C. A  
A = 0.04  
S = 1.0

CHAMLIN & ASSOCIATES  
PERU ILLINOIS MORRIS

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

DESIGNED	JKC
CHECKED	JLS
DRAWN	LAG/NOE
CHECKED	JKC