Benchmarks: #1, Chiseled " □ " in SW wingwall at Southwest corner of SN 046-0063. Elevation = 701.18, Sta. 147+56.70, 34.19' RT.
#5, Railroad spike in face of utility pole. Elevation = 675.27, Sta. 145+39.41, 148.57' RT.

Existing Structure: Structure No. 046-0063 was originally constructed in 1962 as Section 79R-VB and 79R-VF. In 2001, the bridge was rehabilitated with replacement of the abutment bearings, and reconstruction of the abutment back walls and approach slabs. In 2009, a Type 2399 steel railing was installed in front of the original barriers. The superstructure consists of three-span continuous, non-composite rolled steel beams with a 7" cast-in-place concrete deck. A 1¼" microsilica concrete overlay was added in 2001. The substructure consists of stub abutments supported by steel H-piles, multi-column piers with crash walls supported by spread footings bearing on bedrock. Wood piles are present at the original approach slab bents. The back-to-back of abutments length measures 178'-0" and the out-to-out of deck width measures 64'-0". The span lengths are 52'-9", 68'-9", and 52'-9". The structure is skewed 8°17'00" left forward. One lane of traffic in each direction will be maintained utilizing stage construction.

No salvage.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 8th Edition

DESIGN STRESSES

FIELD UNITS:

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Grade 50W)

HIGHWAY CLASSIFICATION

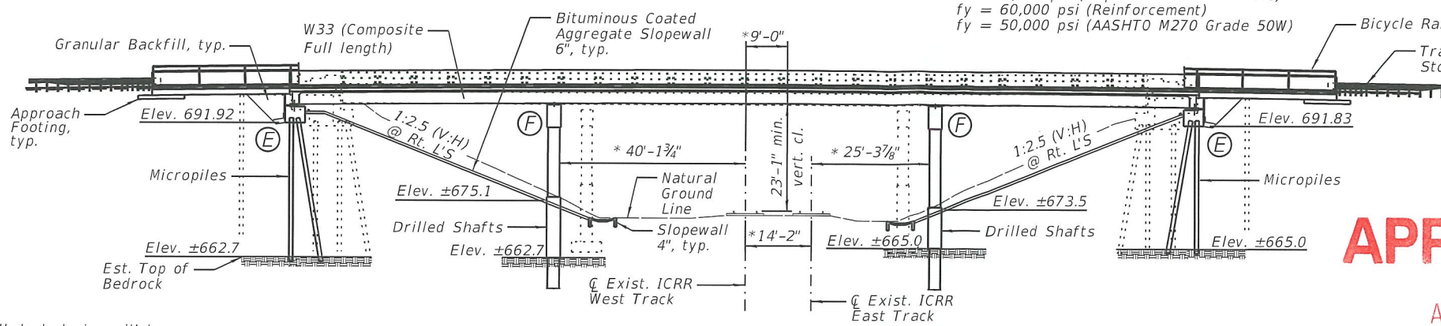
F.A.U. Route 6176 (Armour Road)
Functional Class: Minor Arterial
A.D.T.: 18,600 (2015), 23,436 (2041)
D.H.V.: 2,835 (2041)
A.D.T.T.: 1,674 (2015), 2,109 (2041)
Design Speed: 40 M.P.H.
Posted Speed: 40 M.P.H.
Two Way Traffic
Directional Distribution: 50/50

LOADING HL-93

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

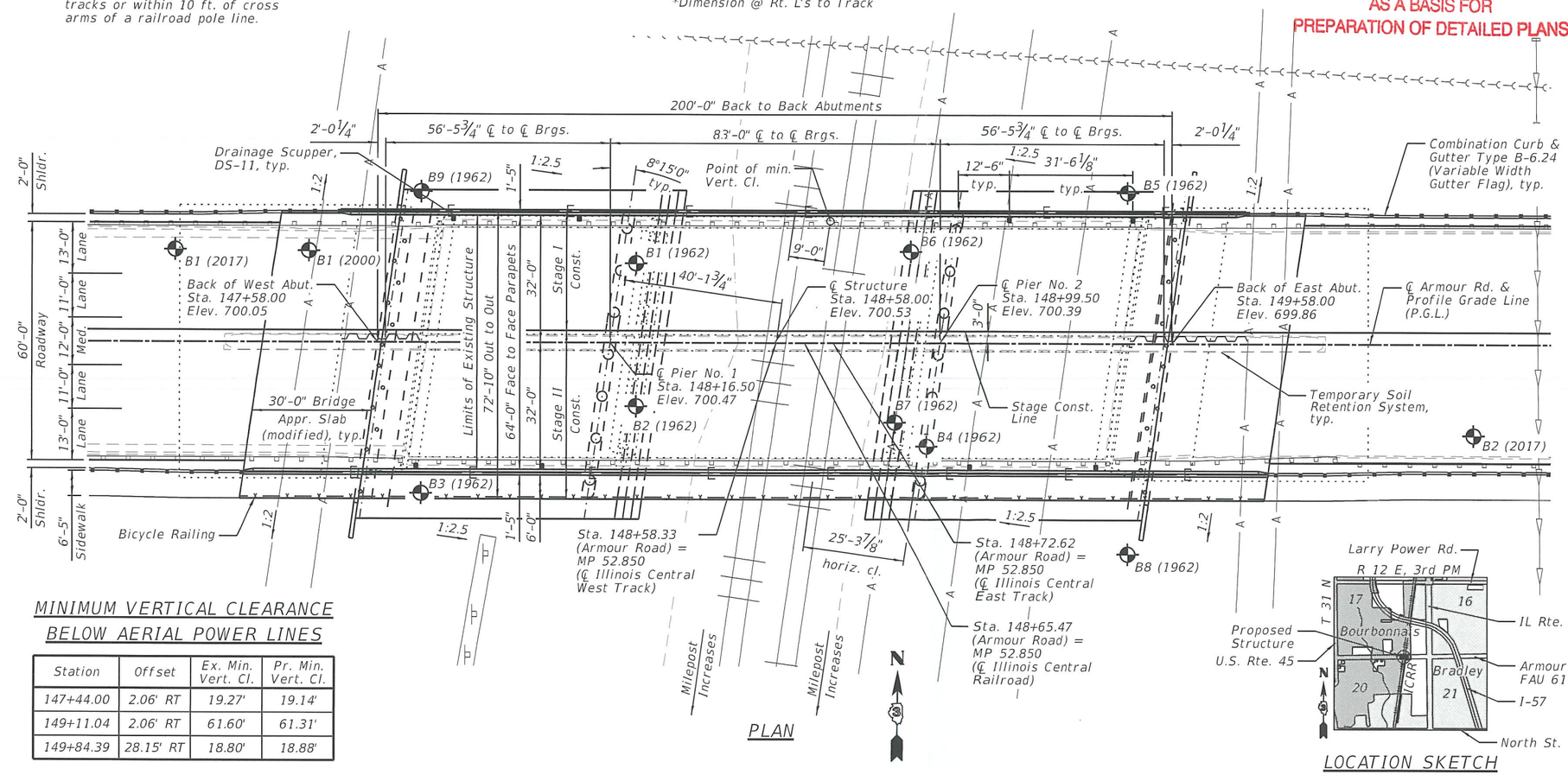
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.072g
Design Spectral Acceleration at 0.2 sec. (SDs) = 0.125g
Soil Site Class = C



ELEVATION

*Dimension @ Rt. L's to Track



PLAN

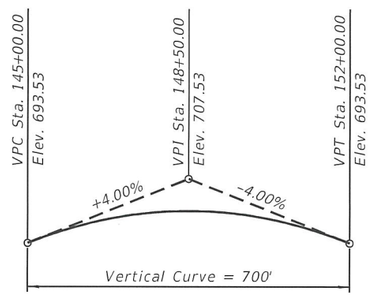
NOTE:

No freefall deck drains will be permitted in the span over the tracks or within 10 ft. of cross arms of a railroad pole line.

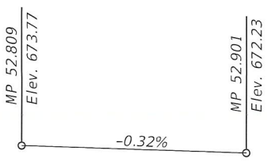
MINIMUM VERTICAL CLEARANCE BELOW AERIAL POWER LINES

Station	Offset	Ex. Min. Vert. Cl.	Pr. Min. Vert. Cl.
147+44.00	2.06' RT	19.27'	19.14'
149+11.04	2.06' RT	61.60'	61.31'
149+84.39	28.15' RT	18.80'	18.88'

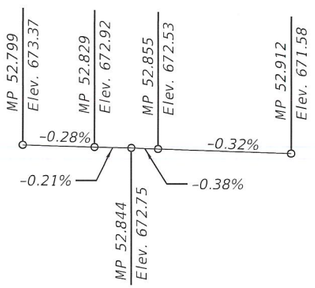
APPROVED
APR 02 2019
AS A BASIS FOR PREPARATION OF DETAILED PLANS



PROFILE GRADE
(Along ℄ Roadway)



ICRR WEST TRACK PROFILE GRADE
(Top of rail along East rail)



ICRR EAST TRACK PROFILE GRADE
(Top of rail along West rail)

LOCATION SKETCH

ARMOUR ROAD OVER ILLINOIS CENTRAL RAILROAD
F.A.U. 6176 - SECTION (79R-VB)R
KANKAKEE COUNTY
STATION 148+58.00
STRUCTURE NO. 046-0155

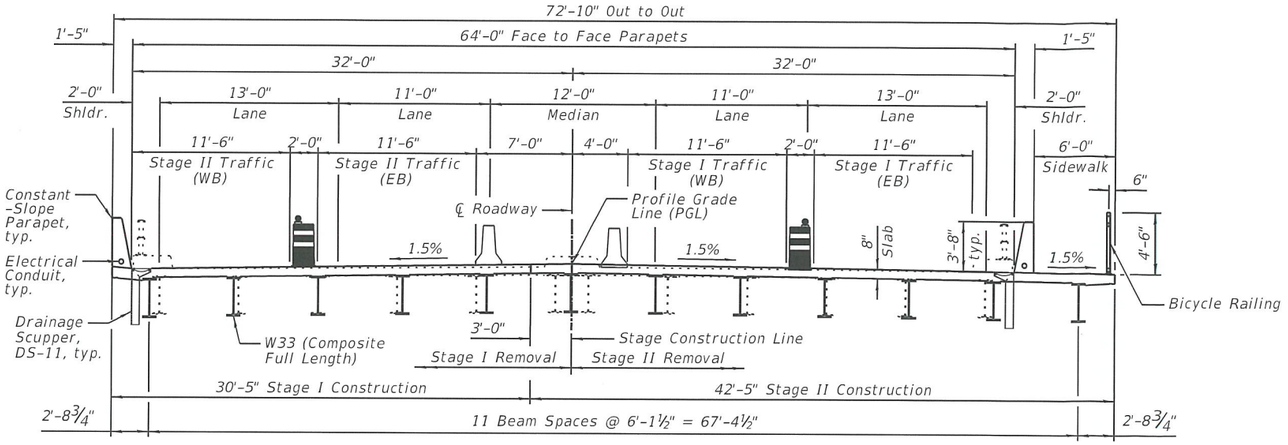
Farnsworth GROUP
2709 McGRAW DRIVE
BLOOMINGTON, ILLINOIS 61704
(309) 663-8435 / info@f-w.com

	DESIGNED - IIP	REVISED
	CHECKED - JCZ	REVISED
	DRAWN - DJM/IIP	REVISED
DATE - 03/15/19	CHECKED - JML	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

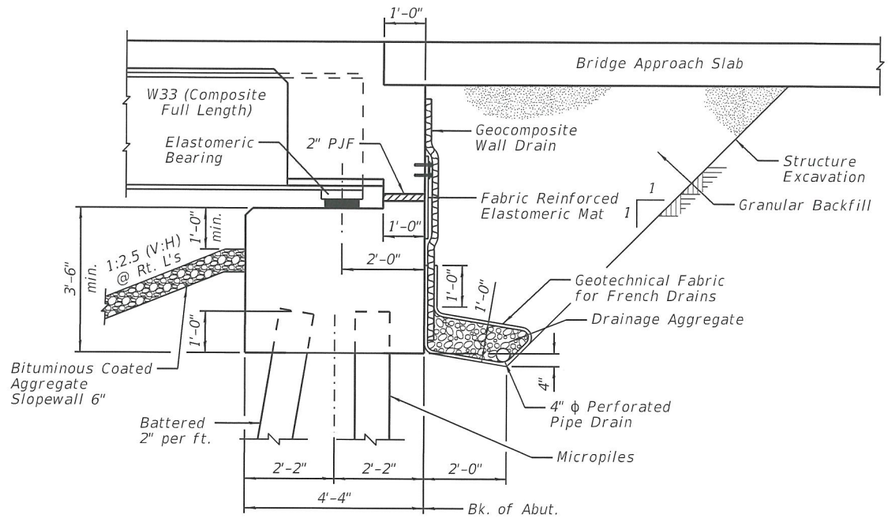
GENERAL PLAN
STRUCTURE NO. 046-0155
SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6176	(79R-VB)R	KANKAKEE	2	1
		CONTRACT NO. 66F11		
	ILLINOIS FED. AID PROJECT			



CROSS SECTION

(Looking East)



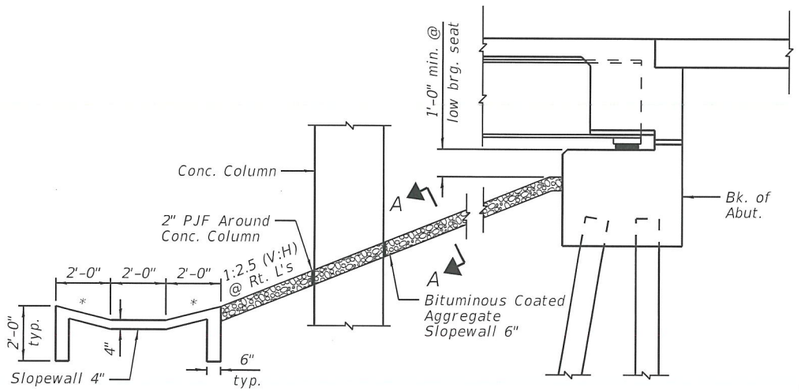
SECTION THRU ABUTMENT

(Horizontal dimensions @ Rt. L's)

APPROVED

APR 02 2019

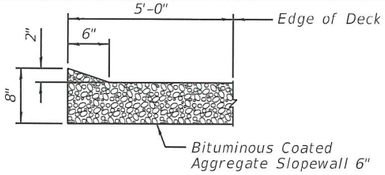
AS A BASIS FOR PREPARATION OF DETAILED PLANS



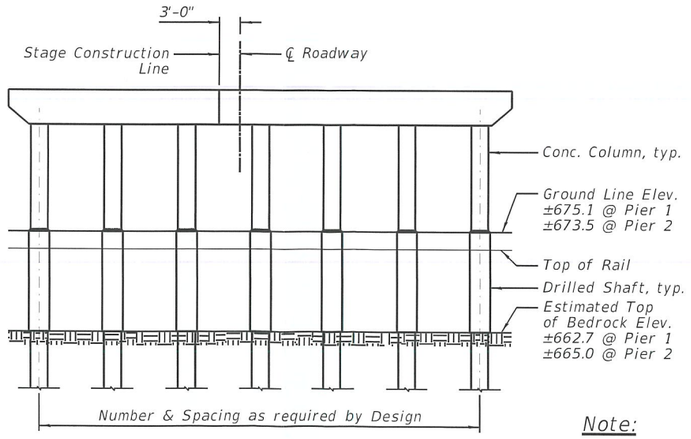
SECTION THRU SLOPEWALL

*1:4 (V:H)

(Horizontal dimensions @ Rt. L's)



SECTION A-A

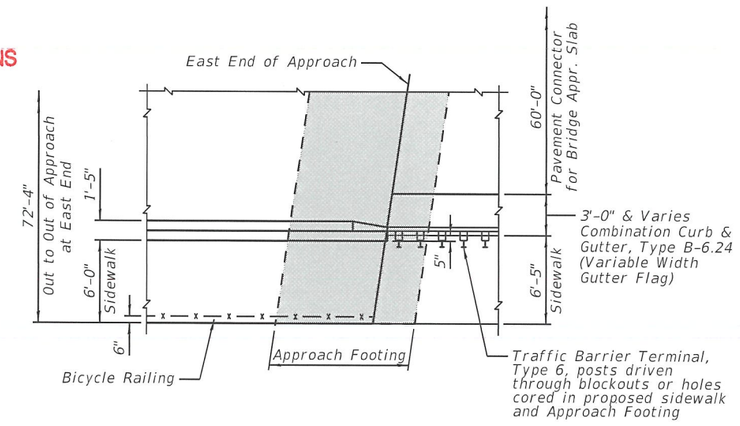


PIER SKETCH

(Looking East)

Note:

The existing Piers shall be removed during Stage II Construction.



PARTIAL PLAN

MODIFIED BRIDGE APPROACH SLAB

South edge of East Approach shown, South edge of West Approach similar

ARMOUR ROAD OVER
ILLINOIS CENTRAL RAILROAD
F.A.U. 6176 - SECTION (79R-VB)R
KANKAKEE COUNTY
STATION 148+58.00
STRUCTURE NO. 046-0155

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	DRAWN - DJM/IIP	REVISED
DATE - 03/15/19	CHECKED - JML	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
STRUCTURE NO. 046-0155
SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6176	(79R-VB)R	KANKAKEE	2	2
		CONTRACT NO. 66F11		
	ILLINOIS	FED. AID PROJECT		