F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	142-R	ROCK ISLAND	2	1
STA. 268+14.62		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCH MARK:
Iron pin 500'± west of prop structure, 7'± Rt of ℄ of median, Sta 262+90, El 576.49

Existing Structure:
None

STAGING:
None

SALVAGE:
None

HIGHWAY CLASSIFICATION

41st Drive Connector
ADT: 10,000 (2006), 13,550 (2026)
DHV: 1,000 (2006), 1,355 (2026)
ADTT: 3.5%
Functional Class: Minor Collector
Design Speed: 35 mph
Posted Speed: 35 mph

FAP 595
ADT: 42,100 (2006), 56,750 (2026)
DHV: 4,210 (2006), 5,675 (2026)
ADTT: 5.5%
Functional Class: Expressway
Design Speed: 60 mph
Posted Speed: 55 mph

DESIGN STRESSES

f'_c = 3,500 psi (Concrete)
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M-270, Grade 50 Structural Steel)

DESIGN SPECIFICATIONS

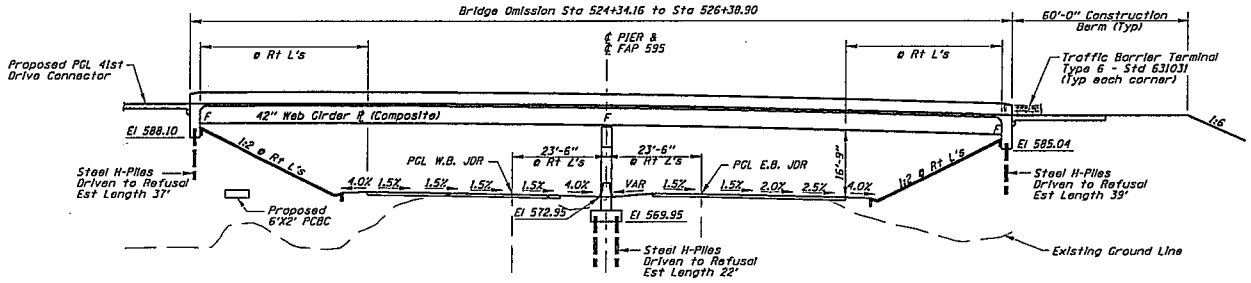
2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

HS 20-44 LOADING

Allow 50 lb/sf for Future Wearing Surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0



ELEVATION
(Looking East)

NOTE:
Conduits to be provided for future lighting.

APPROVED

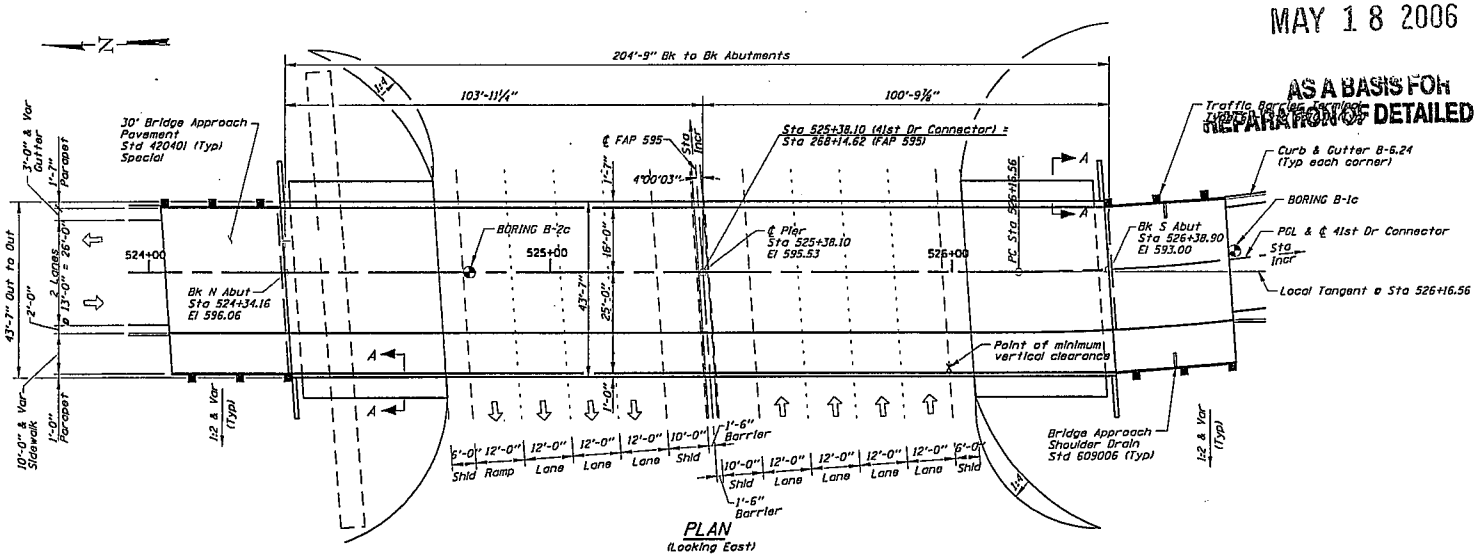
MAY 18 2006

AS A BASIS FOR PREPARATION OF DETAILED PLAN

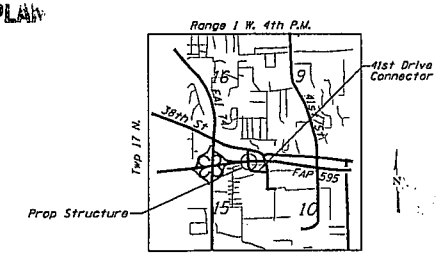
CURVE DATA

41st Drive Connector
P.I. STA. 531+37.60
D = 96°59'51"
R = 461.00'
L = 780.44'
T = 521.04'
E = 234.71'
P.C. STA. 526+16.56
P.T. STA. 533+97.00

FAP 595
P.I. STA. 271+73.85
D = 0°36'00"
R = 9,549.34'
L = 2,905.15'
T = 1,463.88'
E = 111.55'
P.C. STA. 257+09.97
P.T. STA. 286+15.12



PLAN
(Looking East)



LOCATION SKETCH

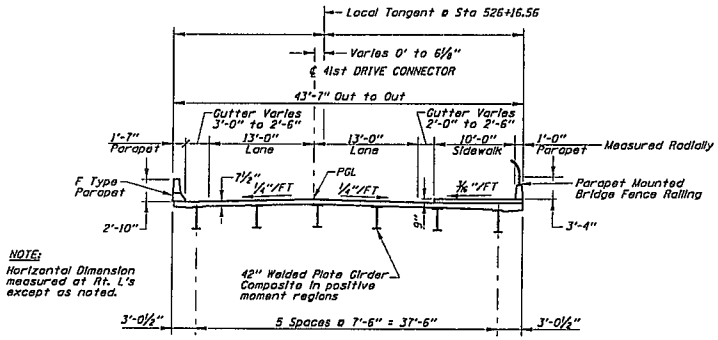
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

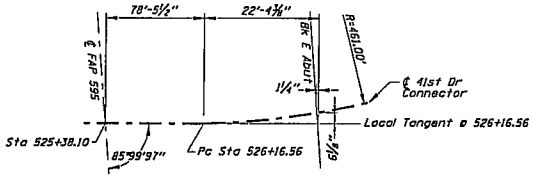
GENERAL PLAN & ELEVATION
41st DRIVE CONNECTOR OVER FAP 595 (IL 5)
SECTION 142-R
ROCK ISLAND COUNTY STA 525+38.10
SN 081-0176

DATE: 02-25-05 DRAWN BY: UJ CHECKED BY: JLG

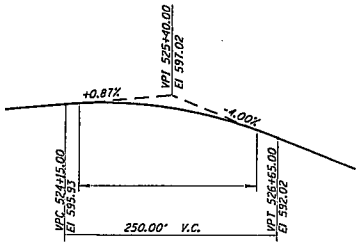
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	142-R	ROCK ISLAND	2	2
STA. 268+14.62		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



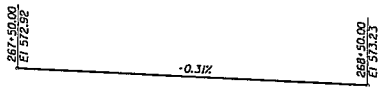
BRIDGE CROSS SECTION
(Looking South)



OFFSET SKETCH



PROPOSED PROFILE GRADE 41st Drive Connector
(Applies @ ℄ of roadway of 41st Drive Connector)

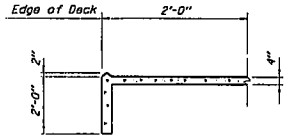


PROFILE GRADE FAP 595
(Applies 23'-6" from ℄ of median along edge of thru lane)

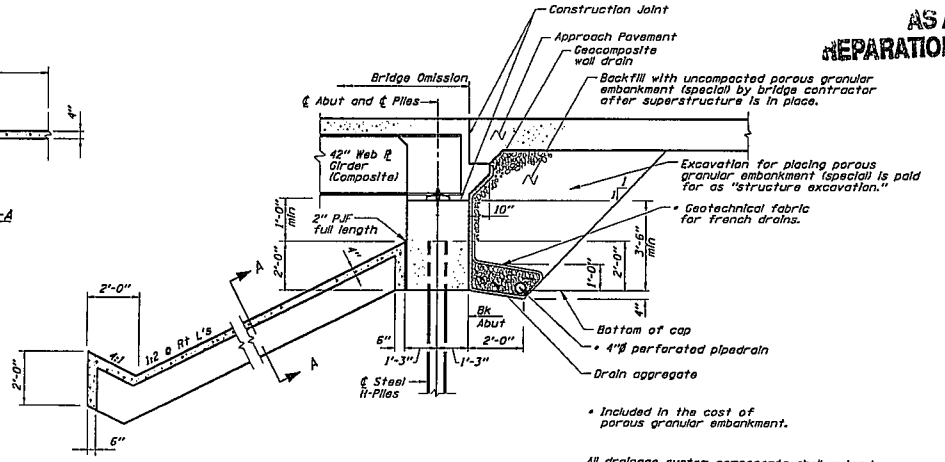
APPROVED

MAY 18 2006

AS A BASIS FOR PREPARATION OF DETAILED PLANS

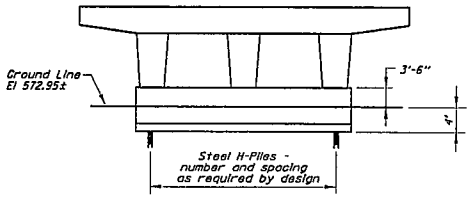


SECTION A-A



All drainage system components shall extend to 2'-0" from the end wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Std Specs and Highway Std 601101).

SECTION THRU INTEGRAL ABUTMENT AND SLOPEWALL



TYPICAL PIER SKETCH
(Looking South)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
41st DRIVE CONNECTOR OVER FAP 595 (IL 5)
SECTION 142-R
ROCK ISLAND COUNTY STA 525+38.10
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