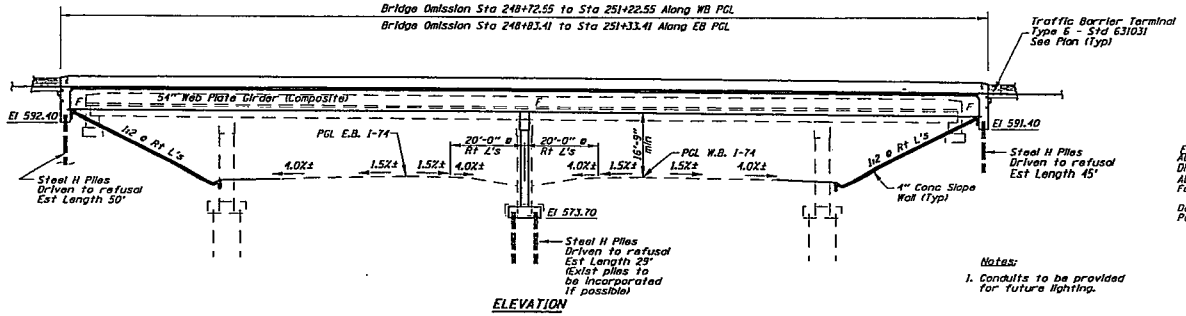
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	142-R	ROCK ISLAND	2	1
STA. 250+02.98		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCH MARK:
Iron pin 25'± east of existing east abutment, 1'± Lt of ℄ of median. Sta 251+50. El 596.90

EXISTING STRUCTURES:
E.B. Structure 081-0098
out to out varies 53'-0" to 49'-0"
W.B. Structure 081-0097
out to out varies 49'-0" to 53'-0"
both structures are composite 4 span steel multi-beam bridges 216'-6"
Bk to Bk of abutments on multi column piers and pile bent split-thru abutments. There are pin and link ring connections within the beam lines in each end span for both structures. Both structures were constructed in 1970 as FAI Route 74 Section 81-2HB-1.

Structures to be removed & replaced using cross-overs. No salvage.



ELEVATION

Notes:
1. Conduits to be provided for future lighting.

HIGHWAY CLASSIFICATION

FAP RTE 595 - IL RTE 5
ADT: 35,600 (2006), 48,000 (2026)
DHV: 3,560 (2006), 4,800 (2026)
ADTT: 32
Functional Class: Other Principal Arterial
Design Speed: 60 mph
Posted Speed: 55 mph

FAI RTE 74 - I-74
ADT: 43,000 (2006), 57,950 (2026)
DHV: 4,300 (2006), 5,795 (2026)
ADTT: 42
Functional Class: Interstate
Design Speed: 60 mph
Posted Speed: 55 mph

DESIGN STRESSES

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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

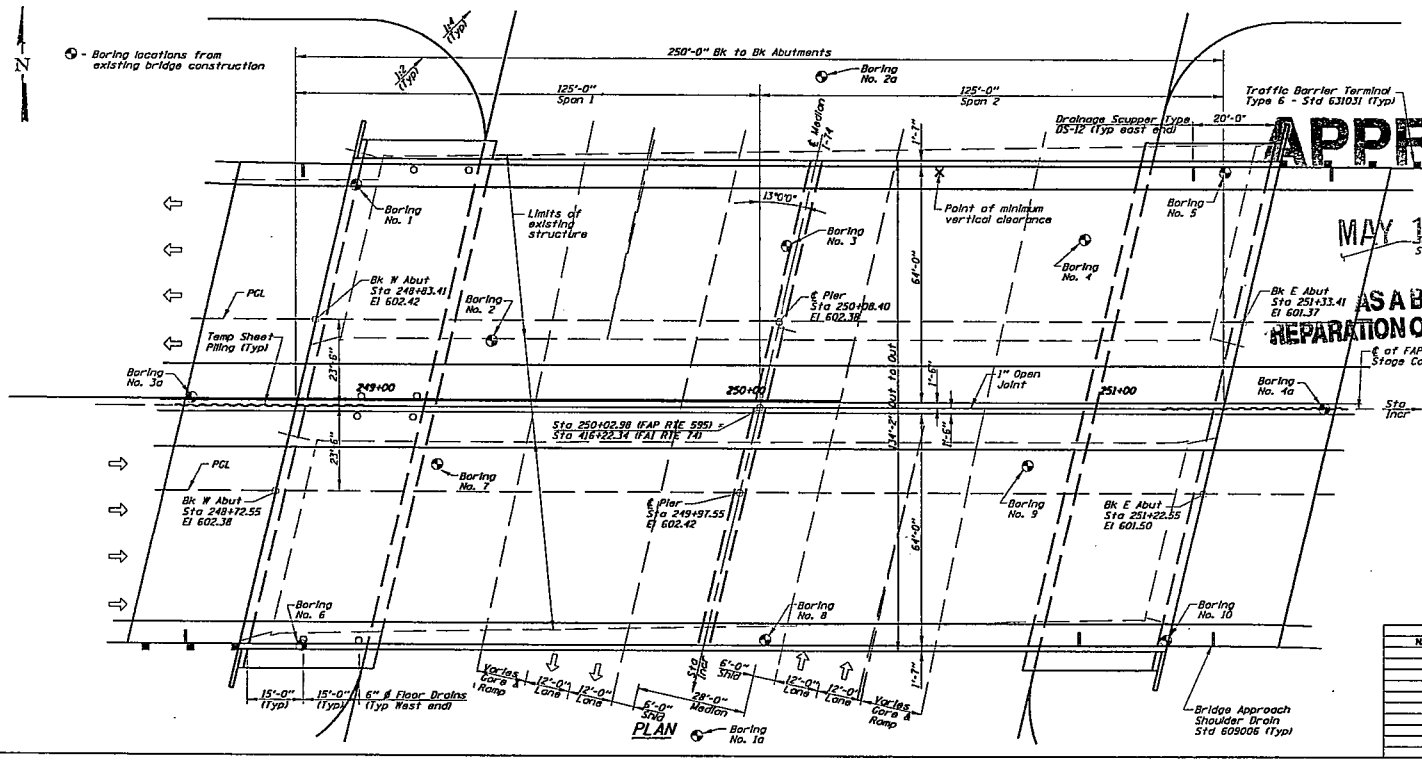
HS 20-44 LOADING

Allow 50 lb/ft² for Future Wearing Surface.

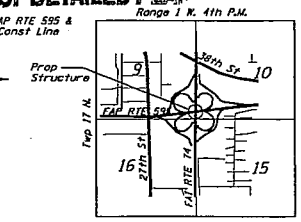
SEISMIC DATA

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

APPROVED
MAY 18 2006
AS A BASIS FOR
PREPARATION OF DETAILED PLAN



PLAN



LOCATION SKETCH

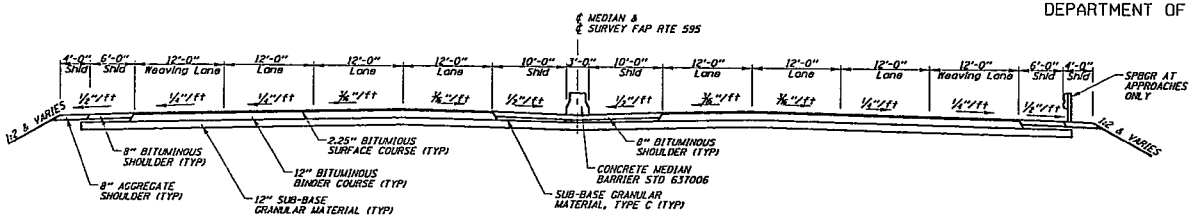
REVISIONS	
NAME	DATE

GENERAL PLAN & ELEVATION
IL ROUTE 5 (FAP ROUTE 595) OVER I-74 (FAI ROUTE 74) – SECTION 142-R
ROCK ISLAND COUNTY STA 250+02.98
SN 081-0175

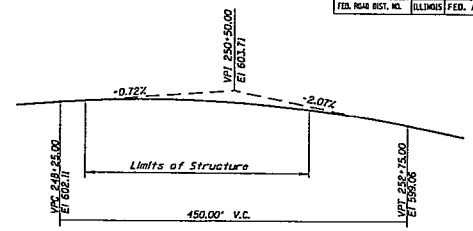
DATE: 02-22-05 DRAWN BY: LJJ CHECKED BY: J.G

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

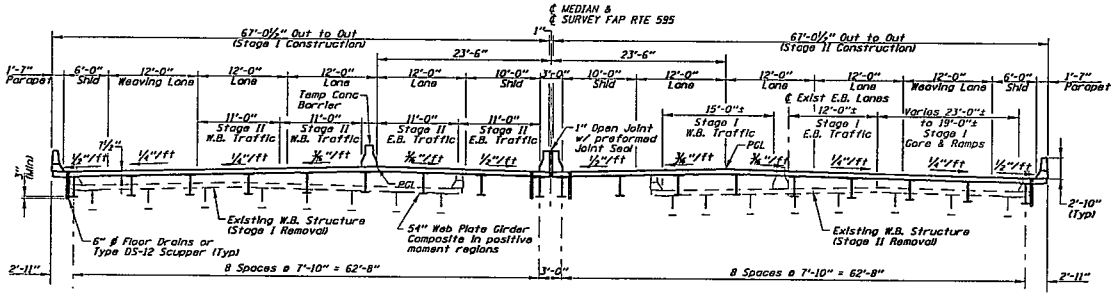
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	142-R	ROCK ISLAND	2	2
STA. 250+02.98		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



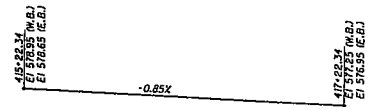
APPROACH ROADWAY CROSS SECTION



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



STAGE II CROSS SECTION
(Looking East)

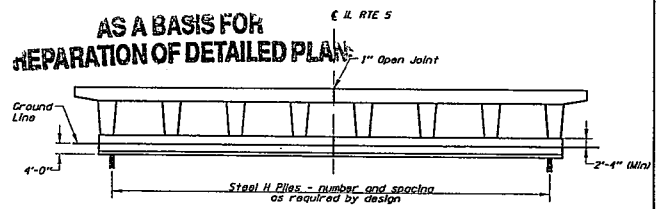


PROFILE GRADE I-74
(Applies at edge of existing thru lanes)

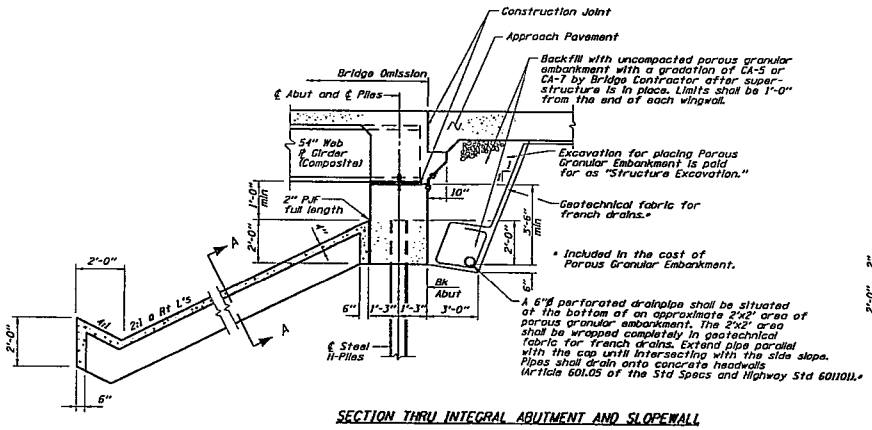
APPROVED

MAY 18 2006

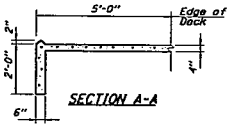
AS A BASIS FOR PREPARATION OF DETAILED PLANS



TYPICAL PIER SKETCH
(Looking East)



SECTION THRU INTEGRAL ABUTMENT AND SLOPEWALL



SECTION A-A

REVISIONS	
NAME	DATE

DETAILS
IL ROUTE 5 (FAP ROUTE 595) OVER
I-74 (FAI ROUTE 74) – SECTION 142-R
ROCK ISLAND COUNTY STA 250+02.98
SN 081-0175

DATE: 02-22-05 DRAWN BY: UJ CHECKED BY: JCG