Bench Mark: Mark on top of wingwall of existing EB structure. Elev. 751.95
Mark on top of wingwall of existing WB structure. Elev. 751.70

Existing Structure: S.N. 101-0065 (EB) and 101-0066 (WB) built in 1960 as F.A.P. Route 194, Section 3HB-2. Each dual structure consists of a four span reinforced concrete deck on wide flange steel beams supported by pile bent split thru abutments and multi-column piers. 234'-2" back-to-back abutments. Varies 49'-8 3/8" to 53'-7 1/4" out-to-out deck. Existing superstructures to be removed and replaced using stage construction.

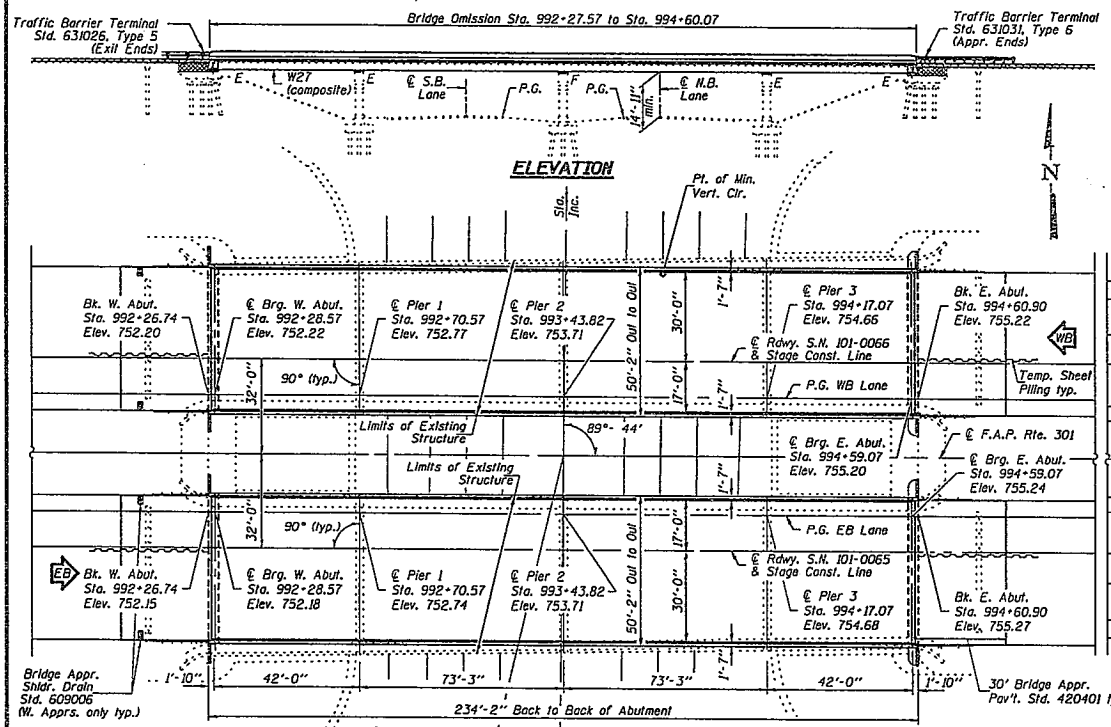
No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

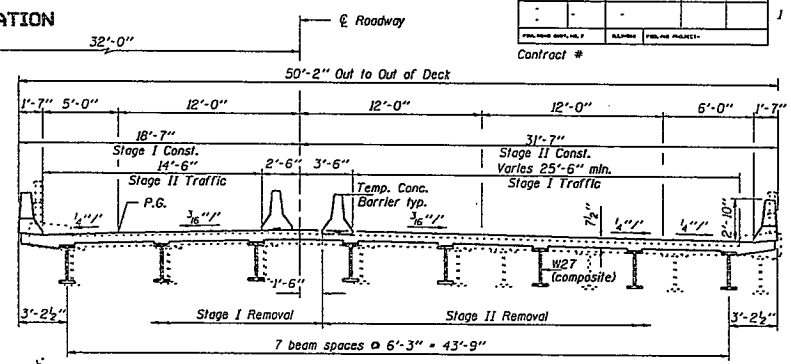
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	-		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
1 SHEETS

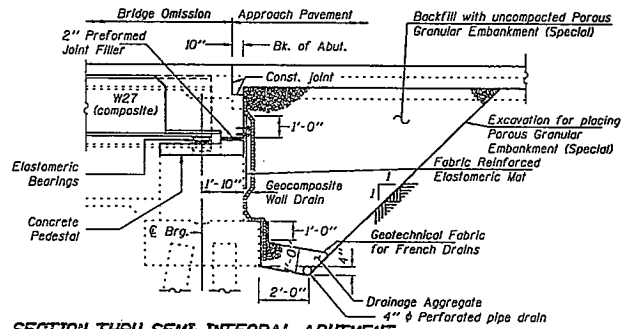
Contract #



PLAN



CROSS SECTION
(101-0065 - Looking East)
(101-0066 - Looking West)

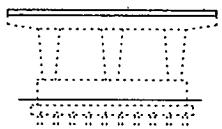


SECTION THRU SEMI-INTEGRAL ABUTMENT
(Horiz. Dimensions @ Rt. L's)

APPROVED

AUG 11 2006

AS A BASIS FOR PREPARATION OF DETAILED PLAN



PIER SKETCH

+1.33% (EB)
+1.29% (WB)

Sta. 991+96.41	Sta. 994+91.24
Elev. 751.75 (EB)	Elev. 755.67 (EB)
Elev. 751.81 (WB)	Elev. 755.61 (WB)

U.S. RTE. 20 PROFILE GRADE
(along P.G.)

HIGHWAY CLASSIFICATION

F.A.P. Rte. 301 - U.S. Rte. 20
Functional Class: Freeway and Expressway
ADT: 44,000 (2008); 64,000 (2028) 2-way
ADTT: 12%
Posted Speed: 65 m.p.h.
Design Speed: 65 m.p.h.

F.A.U. Rte. 5128 - IL. Rte. 251 (Illh. Street)
Functional Class: Minor Arterial (Urban)
ADT: 23,400 (2008); 26,600 (2028) 2-way
ADTT: 9%
Posted Speed: 55 m.p.h.
Design Speed: 55 m.p.h.

Sta. 251+00.00	Sta. 252+00.00	Sta. 253+00.00	Sta. 254+00.00	Sta. 255+00.00
Elev. 734.43 (SB)	Elev. 734.44 (SB)	Elev. 734.59 (SB)	Elev. 734.66 (SB)	Elev. 734.72 (SB)
Elev. 735.36 (NB)	Elev. 735.44 (NB)	Elev. 735.53 (NB)	Elev. 735.49 (NB)	Elev. 735.41 (NB)

IL. RTE. 251 EXISTING PROFILE GRADE
(along P.G.)

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

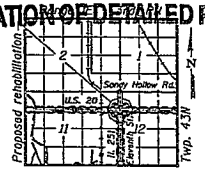
DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

New Construction
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (structural steel M270 Gr. 50)

Existing Structure
f'_c = 1,400 psi
f_s = 20,000 psi (reinforcement)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.032g
Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN
U.S. ROUTE 20 OVER
ILLINOIS ROUTE 251
F.A.P. ROUTE 301 - SECTION 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (EB)
STRUCTURE NO. 101-0066 (WB)

DESIGNED	J.A. Uehle G.G. Fischer
CHECKED	T.A. Craven
DRAWN	W.D. Collins
CHECKED	T.A. Craven

- 200

EXAMINED
ENGINEER OF BRIDGE DESIGN

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

8-11-06

D-92-032-98

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