Bench Mark: Chiseled □ top of wingwall at S.E. corner of bridge Elev. 554.80.

Existing Structure: S.N. 087-3012 built in 1934 as S.A. Rte. 6, Sec. S-I-B-I-M.F.T. This structure is a 3-simple span reinforced concrete "T" girder on closed abutments. The back to back length is 108'-0" and face to face of curb is 21'-10". The proposed structure consists of a 3-span, 27" PPC deck beams on pile bent abutments. The new structure is to be built on the new alignment. Traffic shall be maintained on existing structure during construction of the proposed bridge. The existing structure is to be removed after completion of the new bridge and after traffic is moved to the new alignment.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

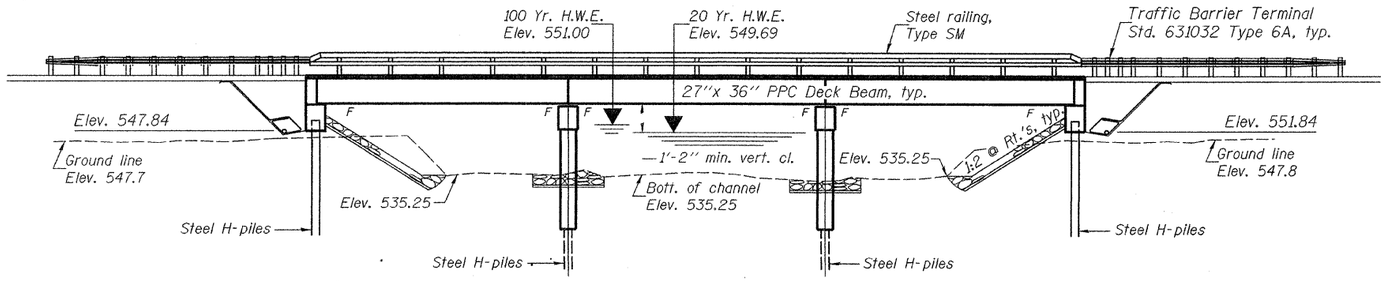
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 653	04-00256 -00-BR	SHELBY	40	27
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
14 SHEETS

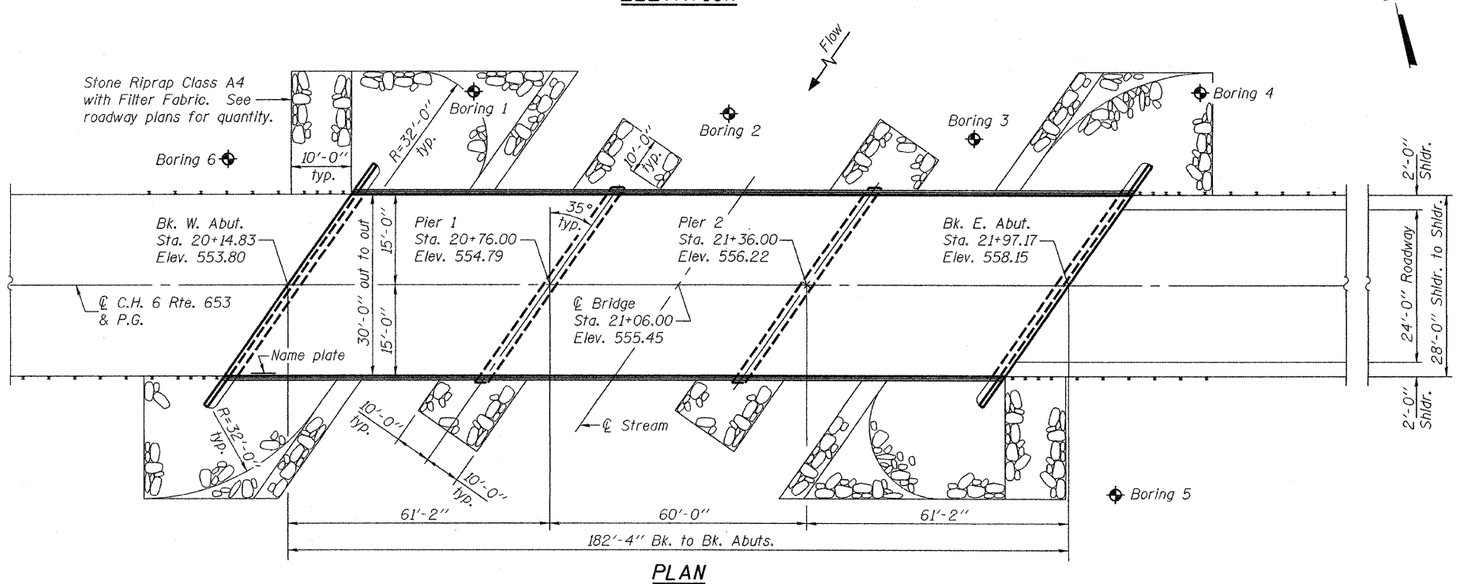
Contract No. 95555

INDEX OF SHEETS

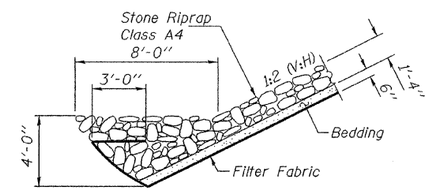
1	General Plan & Elevation
2	General Data
3	Superstructure
4	Steel Railing, Type SM
5-6	27"x 36" PPC Deck Beam Details
7	West Abutment
8	East Abutment
9	Pier 1
10	Pier 2
11	Steel H-Pile Details
12-14	Boring Logs



ELEVATION



PLAN



STONE RIPRAP ANCHOR DETAILS

LOADING HL93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD

DESIGN STRESSES

FIELD UNITS

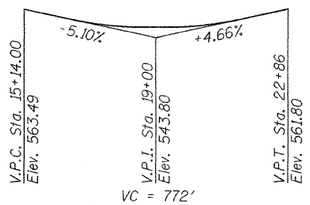
$f'c$ = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f'_s = 270,000 psi (½" low relax. strands)
f_{si} = 201,960 psi (½" low relax. strands)

SEISMIC DATA

Seismic Performance Zone (SPC) = A
Bedrock Acceleration Coefficient (A) = 6.3%g
Site Coefficient (S) = 1.5



PROFILE GRADE

(Along ℄ Rdwy.)

STATION 21+06.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 653 SEC. 04-00256-00-BR
LOADING HL93
STRUCTURE NO. 087-3563

NAME PLATE

See Std. 515001

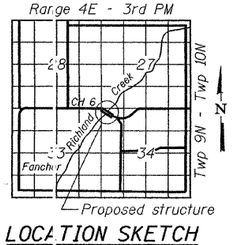
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	547.84	527.4	529.6	551.84

WATERWAY INFORMATION

Drainage Area = 44.53 mi² Low Grade Elev. 553.22 @ Sta. 19+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10								
Design	20	4747	1155	1798	549.7	0.2	0.1	549.9	549.8
Base	100	6874	1155	1991	551.0	0.5	0.1	551.5	551.1
Overtopping									
Max. Calc.	500	8884			551.9	0.8	0.2	552.7	552.1



LOCATION SKETCH

GENERAL PLAN & ELEVATION
COUNTY HIGHWAY 6 OVER
RICHLAND CREEK
F.A.S. RTE. 653 - SEC. 04-00256-00-BR
SHELBY COUNTY
STATION 21+06.00
STRUCTURE NO. 087-3563

DESIGNED	Jay D. Edwards
CHECKED	Nicholas R. Burns
DRAWN	h.t. duong
CHECKED	JDE/NRB/GRA

EXAMINED Thomas J. Domagalski Sep. 4, 2008
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
RALPH E. ANDERSON
081-004625
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2008

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