

Bench Mark: Chiseled square on bridge abutment @ NW corner of structure 095-0007
Sta. 1510+84.7, 18.4 ft. Left, Elev. 445.40

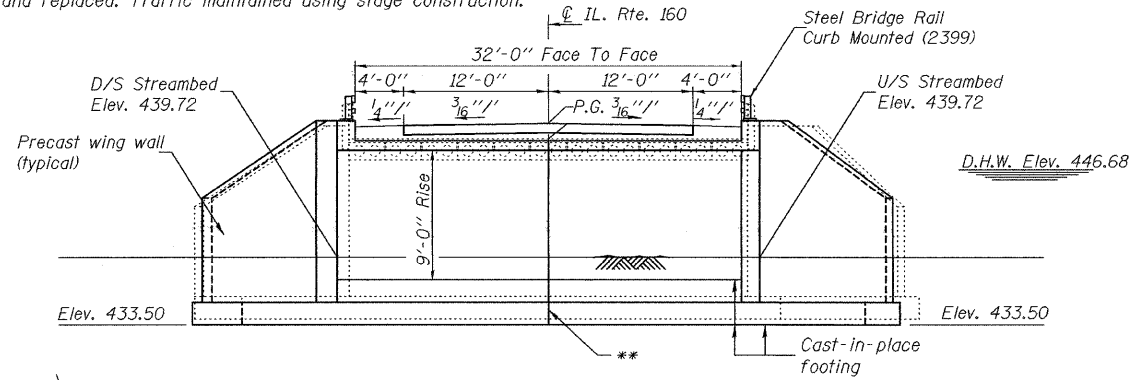
Existing Structure: S.N. 095-0007 Built in 1921 as S.B.I. Route 15, Section 5B at Station 1510+80 as a 1 span RC slab bridge. Closed abutments on spread footings. 1971 superstructure replacement, and widening, with PPC deck beams. Existing bridge to be removed and replaced. Traffic maintained using stage construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

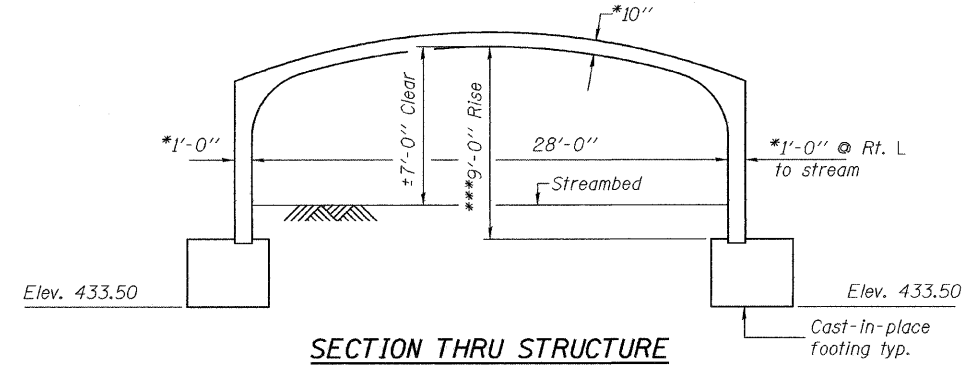
ROUTE NO.	SECTION	COUNTY	DISTRICT	SHEET NO.	SHEET NO. 1
F.A.S. 1832	5BR-2	WASHINGTON	97	71	12 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #76949

No salvage



LONGITUDINAL SECTION



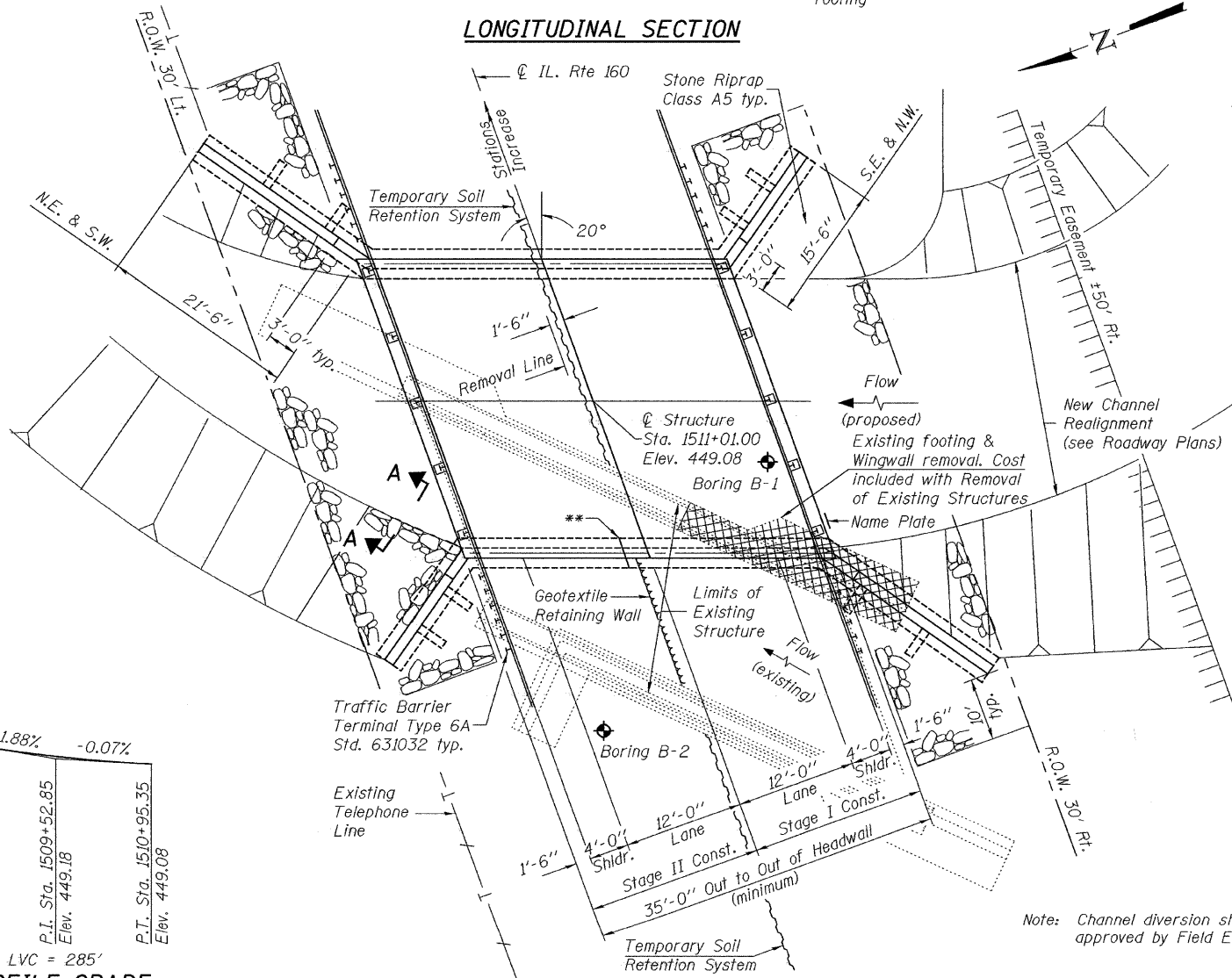
SECTION THRU STRUCTURE

*Slab and wall thickness and shape may vary as per manufacturer's design.
**Stage I west footing to be constructed $\pm 2'$ into Stage II Construction
***Based on Con Span sections that have a minimum rise of 9'-0".

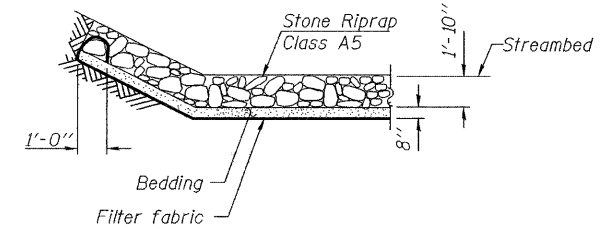
Note: The selected structure by the contractor shall provide a hydraulically equivalent waterway opening specified in the waterway information table.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Stage Construction Details
- 3 Temporary Soil Retention System
- 4 Geotextile Retaining Wall
- 5 Temporary Concrete Barrier
- 6-7 Footing Details
- 8 Wingwall Details
- 9 Headwall Details
- 10 Bar Splicer Details
- 11 Steel Bridge Rail Details
- 12 Soil Boring Logs



PLAN



SECTION A-A

DESIGN SCOUR
ELEVATION TABLE

Design Scour Elev. (ft.)	D.S. 437.72	U.S. 437.72
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SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = .11g
Site Coefficient (S) = 1.5

LOADING HS20

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 65,000$ psi (welded wire fabric)

STATION 1511+01.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE 1832 - SEC. 5BR-2
LOADING HS20
STRUCTURE NO. 095-0078

NAME PLATE

See Std. 515001

P.C. Sta. 1508+10.35 Elev. 451.86	P.I. Sta. 1509+52.85 Elev. 449.18	P.T. Sta. 1510+95.35 Elev. 449.08
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LVC = 285'
PROFILE GRADE
(F.A.S. Rte. 1832)

DESIGNED	January 29, 2007
CHECKED	
DRAWN	
CHECKED	

EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

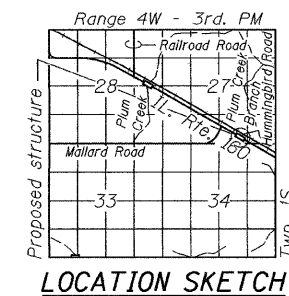


EXPIRES 11-30-2008

WATERWAY INFORMATION

Drainage Area = 0.87 sq. mi. Low Grade Elev. 447.49 ft. @ Sta. 1510+95

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	741	79.84	139.00	446.68	1.54	1.16	448.22	447.84
Base	100	860	79.84	139.00	446.85	1.58	1.52	448.43	448.37
Exist. Overtop.	15	516	79.84	N/A	446.17	1.32	N/A	447.49	N/A
Prop. Overtop.	35	670	N/A	139.00	446.54	N/A	0.95	N/A	447.49
Scour	10	466	79.84	139.00	446.03	1.08	0.48	447.11	446.51



GENERAL PLAN AND ELEVATION
IL. RTE. 160 OVER
PLUM CREEK BRANCH
F.A.S. RTE. 1832 - SEC. 5BR-2
WASHINGTON CO.
STATION 1511+01.00
STRUCTURE NO. 095-0078