

B.M. - Chiseled "□" on N.W. wingwall of bridge north of T.R. 700 N and 2450 E at sta. 939+75, 21.6' Rt. Elev. 573.34

Existing Structure S.N. 026-0070 constructed in 1932 is a single span 21.5" reinforced concrete slab structure with a 4" wearing surface. The structure is 30'-0" Bk to Bk of abutments and provided 42'-2" roadway width. The structure was constructed with a 30° skew. The abutments are closed abutments on spread footings. Traffic shall be maintained using stage construction.

No Salvage.

Precast Culvert Option not allowed.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

WATERWAY INFORMATION

Drainage Area = 2.27 SQ MI Low Grade Elev. 573.78 @ Sta. 936+70									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	10	488	112	126	570.4	0.1	0.1	570.5	570.5
Base	50	770	129	143	571.1	0.9	0.4	572.0	571.5
Overlapping	100	895	133	150	571.4	0.9	0.5	572.3	571.9
Max. Calc.	500	1195	133	162	571.9	1.4	0.9	573.3	572.8

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	245
Porous Granular Embankment	Cu. Yd.	222
Removal of Existing Structures No. 1	Each	1
Reinforcement Bars	Pound	26,570
Reinforcement Bars, Epoxy Coated	Pound	570
Bar Splicers	Each	178
Concrete Box Culverts	Cu. Yd.	177.8
Temporary Sheet Piling	Sq. Ft.	690
Steel Railing, Type 2399	Foot	56
Stone Riprap, Class A5	Sq. Yd.	346
Filter Fabric	Sq. Yd.	346
Removal & Disposal of Unsuitable Material	Cu. Yd.	52
Rockfill - Replacement	Ton	106
Name Plates	Each	1

INDEX OF SHEETS

1. GENERAL PLAN & ELEVATION
2. STAGE CONSTRUCTION DETAILS & TEMPORARY SHEET PILING
3. STAGE CONSTRUCTION DETAILS
4. STAGE 1 CULVERT DETAILS
5. STAGE 2 CULVERT DETAILS
6. STEEL RAILING, TYPE 2399
7. BAR SPLICER ASSEMBLY DETAILS
8. TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
9. SOIL BORING LOGS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS-20-44

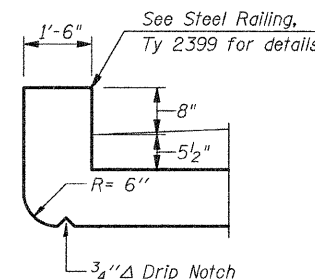
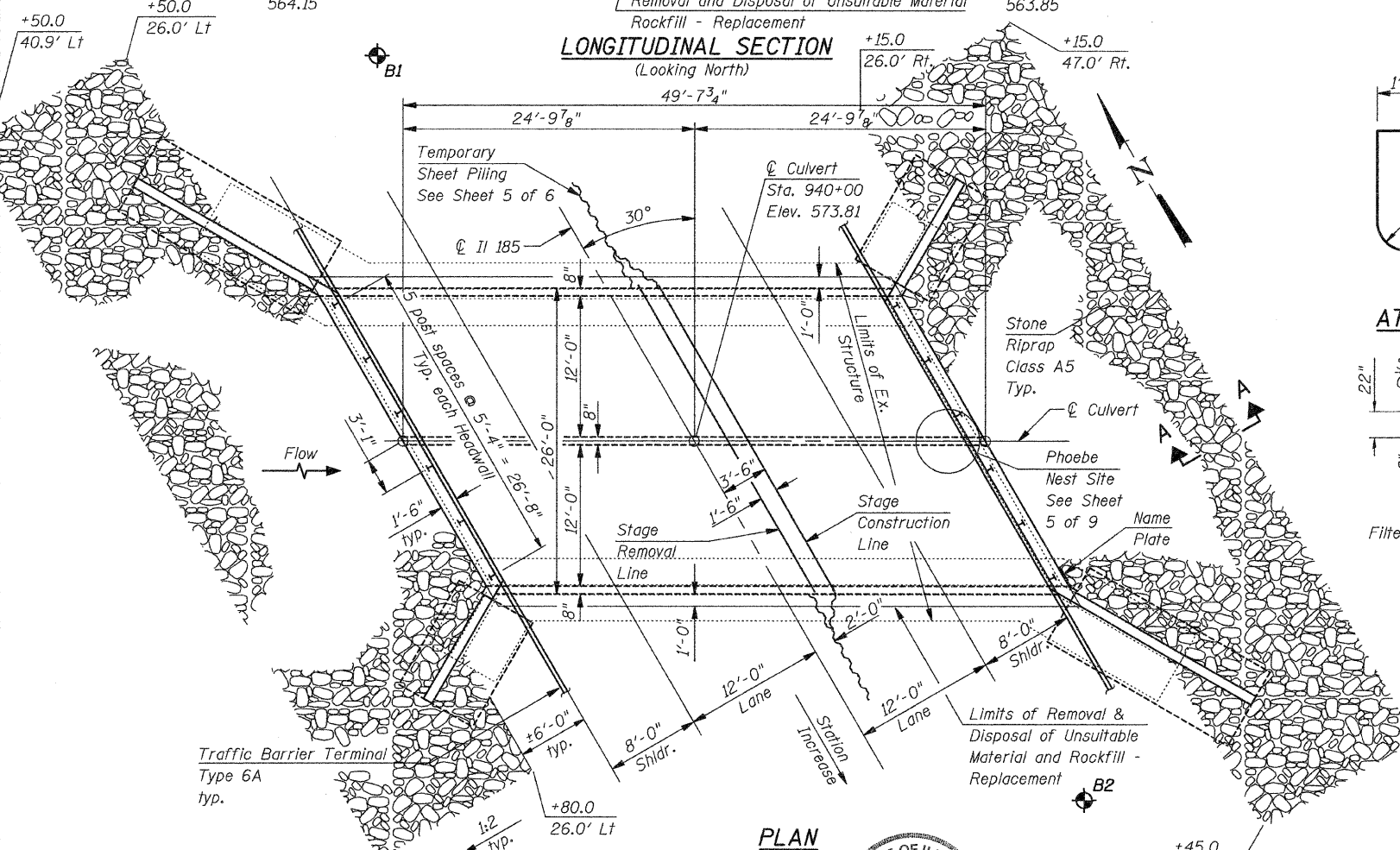
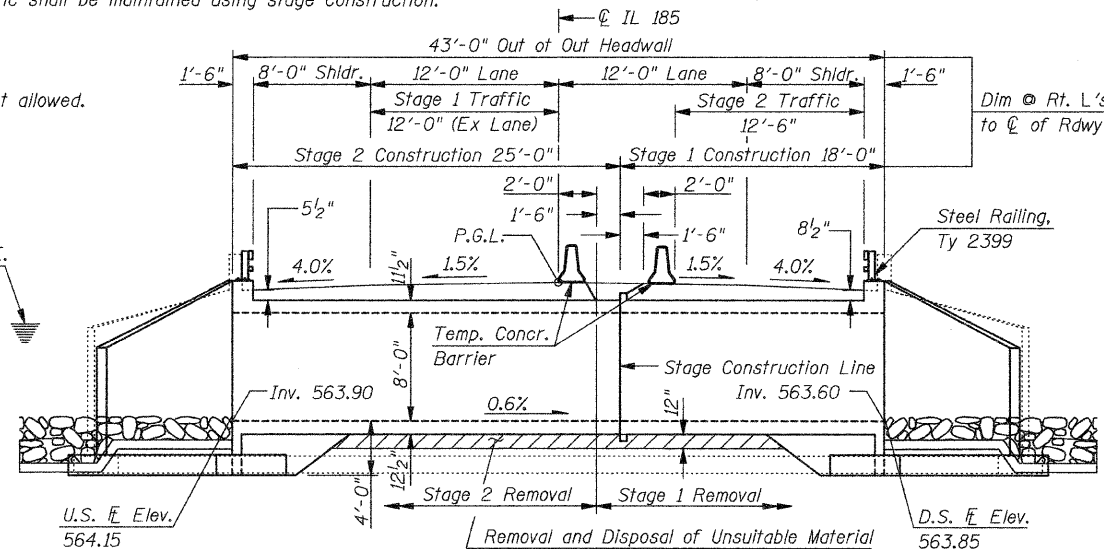
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

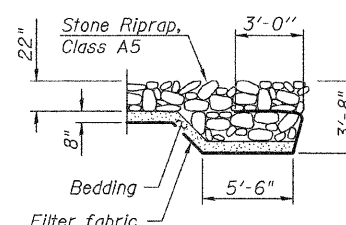
FIELD UNITS

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

GENERAL PLAN
IL ROUTE 185 OVER
EAST FORK KASKASKIA RIVER
F.A.P. RTE. 750 - SECTION 114B-1(1)
FAYETTE COUNTY
STA. 940+00
S.N. 026-2020



AT UPSTREAM END



DESIGN SCOUR ELEVATION TABLE

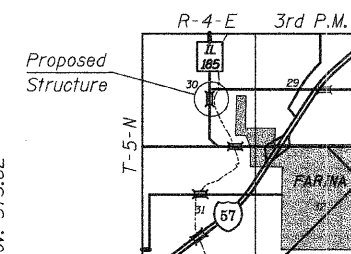
Design Scour Elevation (ft.)	Upstream	Downstream
	559.90	559.60

STATION 940+00.00
BUILT 2010 BY
STATE OF ILLINOIS
FAP ROUTE 750 - SECTION 114B-1(1)
LOADING HS20
STRUCTURE NO. 026-2020

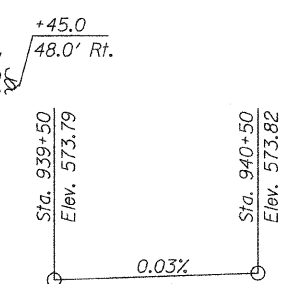
NAME PLATE

See Std. 515001

SECTION A-A



PROFILE GRADE LINE
IL RTE 185

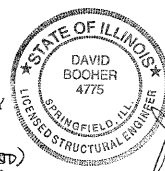


DESIGNED DRB
CHECKED -
DRAWN THW
CHECKED SCD

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APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSP)
ENGINEER OF BRIDGES AND STRUCTURES



David Booher, Illinois S.E. 081-004775
Expires 11-30-2010

11-20-09
Date

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	*	114B-1(1) & 114B-1(2)	FAYETTE	54	19
OF 9 SHEETS		* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110	
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	