

Shldr.

Temporary soil

Retention system

MAY 11, 2017

40'-0"

Lane

8'-0"

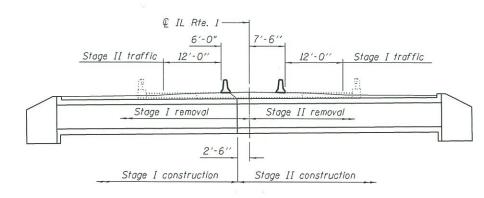
Shldr.

40'-0"

Lane

out-to-out headwalls

PLAN



STAGE CONSTRUCTION SKETCH

The condition of the existing slab for the duration of Stage I Traffic should be verified during final design. If the condition changes, the proposed staging sequence shall be re-evaluated.

Excavate behind the existing abutments prior to superstructure removal.

WATERWAY INFORMATION

Existing Overtopping Elev. 438.16 © Sta. 304+28 Drainage Area = 0.53 Sq. Miles Proposed Overtopping Elev. 438.28 © Sta. 301+9									
Flood	Freq.	Discharge	Opening Sq. Ft. Nat. H		Head - Ft.		Headwater El.		
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	507	82	113	436.9	0.7	0.3	437.6	437.2
OVT (E)	20	687	82	113	437.0	1.6	0.4	438.6	437.4
Design	50	877	82	113	437.1	1.7	0.9	438.8	438.1
OVT (P)	60	948	82	113	437.2	1.7	1.4	438.9	438.6
Base	100	1050	82	113	437.3	1.7	1.4	438.9	438.7
Max. Calc.	200	1235	82	113	437.4	1.6	1.4	439.0	438.8

10-Year Outlet Velocity from Existing Structure = 6.2 fps 10-Year Outlet Velocity from Proposed Structure = 4.5 fps

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 and 2016 Interims

DESIGN STRESSES FIELD UNITS

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

HIGHWAY CLASSIFICATION

F.A.P. Rte. 332 - IL Rte. I Functional Class: Other Principal Arterial ADT: 4100 (2018); 5000 (2038) ADTT: 20% DHV: 439 (2018) Design Speed: 60 m.p.h. Posted Speed: 55 m.p.h. Two-Way Traffic

LOADING HL-93

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

GENERAL PLAN & ELEVATION ILLINOIS ROUTE 1 OVER UNNAMED CREEK F.A.P. RTE. 332 - SEC. 18B LAWRENCE COUNTY STATION 304+33.80 STRUCTURE NO. 051-2009

Proposed Structure LOCATION SKETCH

SECTION A-A

Stone Riprap

Class A5

Redding

Filter fabric

DESIGNED - AL-BARRAE R. SHEBIB CHECKED - JERRY M. BISHOFF DRAWN - IAN J. ANDREWS CHECKED - RICHARD J. CHAPUT

(Typ.)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY 332 LAWRENCE 1 1 18B CONTRACT NO. 74619 ILLINOIS FED. AID PROJECT

10'-0"

typ.

SHEET NO. 1 OF 1 SHEETS