Bench Mark: Cook County Hwy disk in 43' headwall north side of IL 68 over Spring Creek, Elev. 800.46

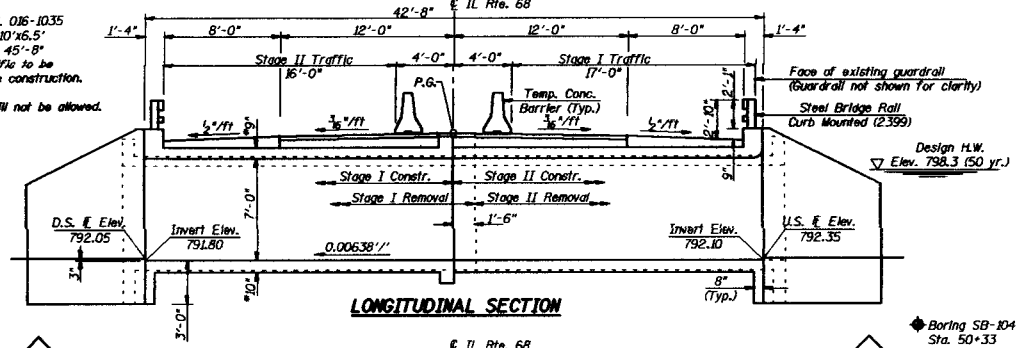
Existing Structure: S.N. 016-1035 built in 1928 as double 10'x6.5' R.C. box culvert, with a 45'-8" out-to-out length. Traffic to be maintained utilizing stage construction.

The precast alternate will not be allowed.

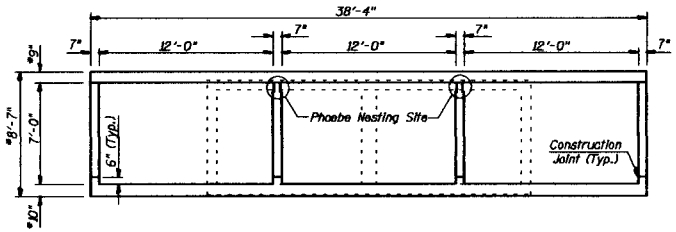
No salvage

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	631-A	COOK		1 of 1

Contract No.: 62T10

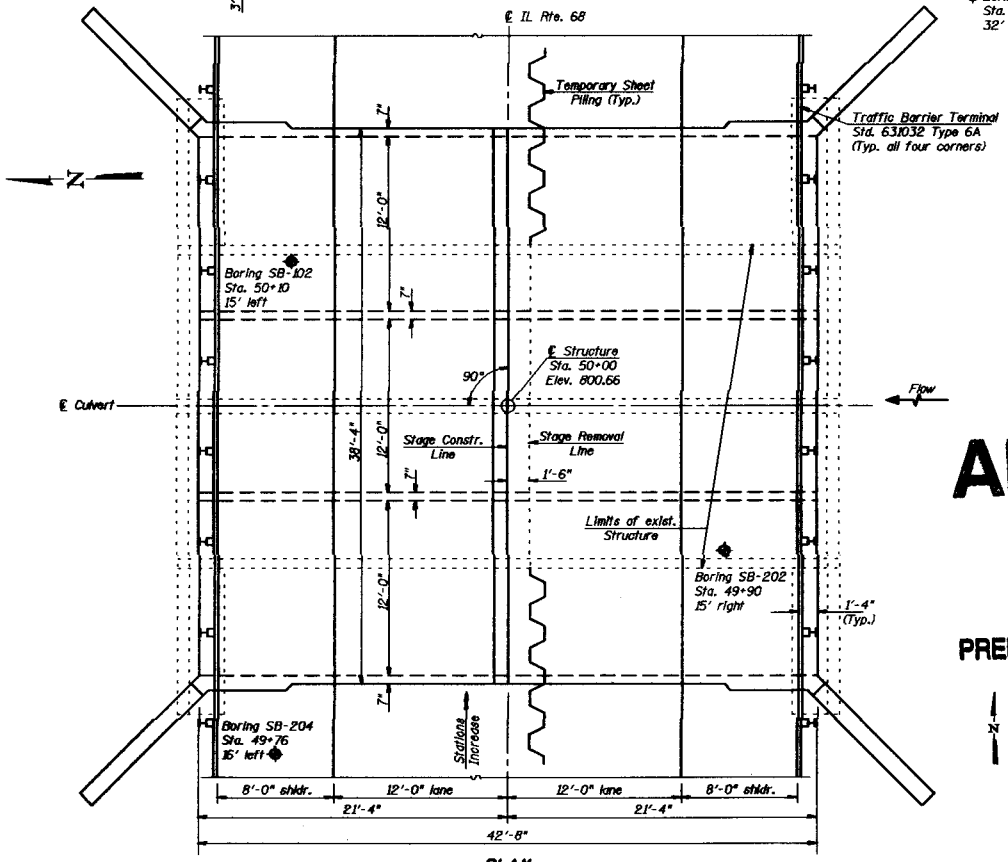


LONGITUDINAL SECTION

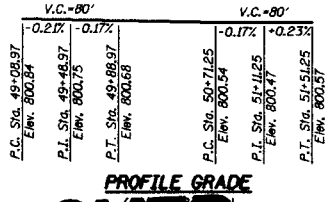


SECTION THRU BARREL

*Slab thickness may be refined in final design



PLAN



PROFILE GRADE

LOADING HS20-44

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

DESIGN SPECIFICATIONS

AASHTO 17th Ed. - 2002

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi

f_y = 60,000 psi (reinforcement)

HIGHWAY CLASSIFICATION

F.A.P. Rte. 343 - IL Rte. 68 (Dundee Rd)

Functional Class: Other Principal Arterial

ADT: 8,082 (2000); 9,698 (2020)

DHV: 970 (2020) ADTT: 4%

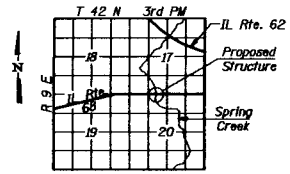
Design Speed: 65 m.p.h.

Posted Speed: 55 m.p.h.

APPROVED

JUN 3 0 2004

AS A BASIS FOR PREPARATION OF DETAILED PLANS



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 7.85 sq. mi. Low Grade Elev. 800.38 @ Sta. 51+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	326	90.0	162.0	796.5	0.0	0.0	796.4	796.3
Design	50	884	126.0	226.8	798.3	0.8	0.0	799.1	798.3
Base	100	1208	130.0	237.6	798.6	1.8	0.5	800.4	799.1
Overtopping									
Max. Calc.	500	2054	130.0	252.0	799.3	2.0	1.3	801.3	800.6

* Elevations taken 50 ft. upstream

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
IL RTE. 68 OVER SPRING CREEK
FAP RTE 343 - SECTION 631-A
COOK COUNTY
STATION 50+00
STRUCTURE NO. 016-2811

DRAWN BY WJV

DATE 6/24/04 CHECKED BY BLB