APPROVED

MAR 07 2003

AS A BASIS FOR PREPARATION OF DETAILED PLANS

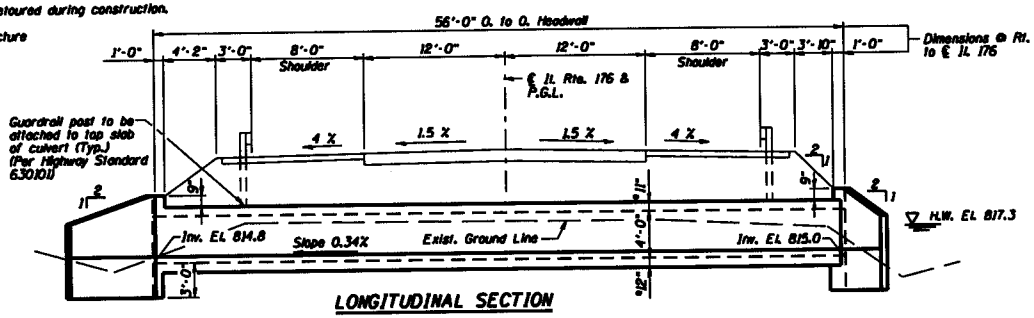
					SHEET NO. 1 OF 1 SHEETS
XXXXXXX	XXXXXX	XXXX			

B.M. - PK Nail at Centerline of Roadway at Sta. 72+18.32, Elev. 828.07

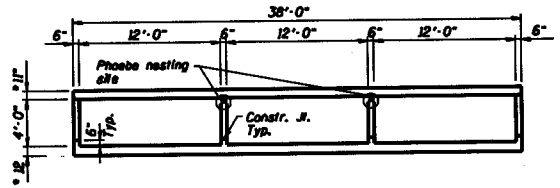
Traffic will be detoured during construction.

No Existing Structure

No Salvage

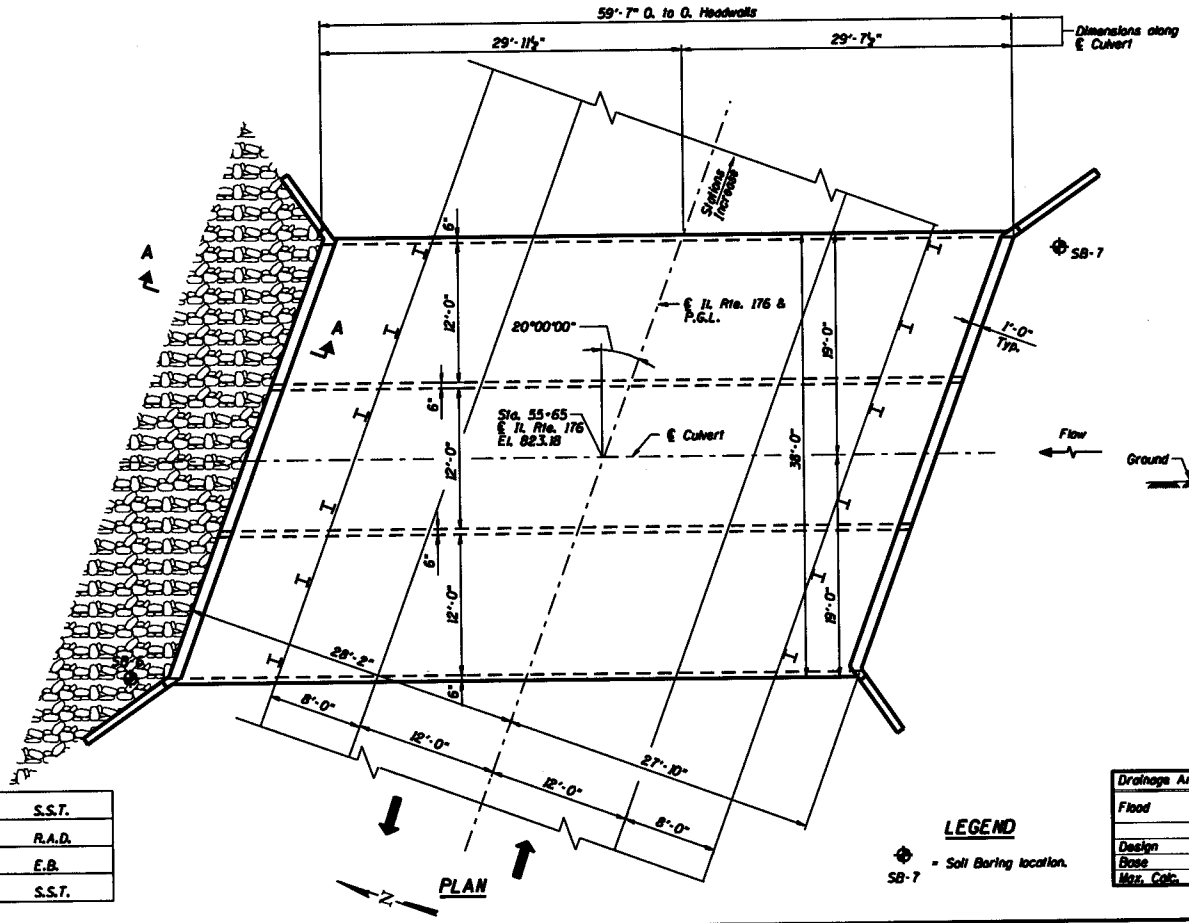


LONGITUDINAL SECTION

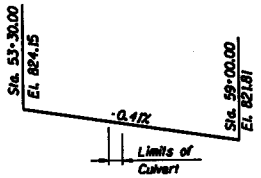


SECTION THRU BARREL

* Slab thickness may be refined in final design.



PLAN



PROFILE GRADE LINE

along ℄ Jl. Rte. 176

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999, 2000 and 2002 Interims

DESIGN SRESSES

FIELD UNITS

f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

HIGHWAY CLASSIFICATION

F.A.P. Route 533

Class: Other Principal Arterial

A.D.T.: 8,300 (1999)
9,960 (2019)

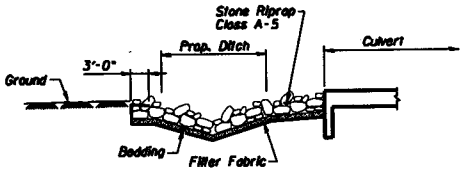
A.D.T.T.: 822 (1999)

Posted Speed: 55m.p.h.

Design Speed: 65m.p.h.

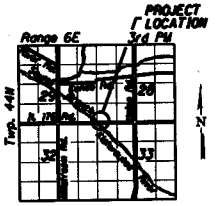
LOADING HS20-44

Allow 50 #/ sq. ft. for Future Wearing Surface



SECTION A-A

(Stone Riprap at downstream side of culvert only)



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 72.7 mi² Low Grade Elev. 822.5 ft @ Sta. 55+00 - 56+00

Flood	Freq. Yr.	Q ft³/s	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Hd. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	60		43	815.7		0.3		817.0
Design	50	65		65	817.3		0.4		817.7
Base	100	70		83	817.8		0.5		818.3
Max. Calc.	500	81		112	818.6		0.6		819.2

LEGEND

SB-7 = Soil Boring location.

DESIGNED	S.S.T.
CHECKED	R.A.D.
DRAWN	E.B.
CHECKED	S.S.T.

GENERAL PLAN
Jl Route 176 over South Branch of the Kishwaukee River (overflow site)
F.A.P. RTE 533, SECTION 11BR-1-B
McHENRY COUNTY
STATION 55+65.00
S.N. 056-0073

Date: 02-27-03

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