

Bench Mark: BM #6 Set at Sta. 28+97.8, Elev 922.00. Square cut on light pole foundation +35' north of the north gas pump of "BP" gas station at the southwest corner of U.S. route 20 and IL Route 72.

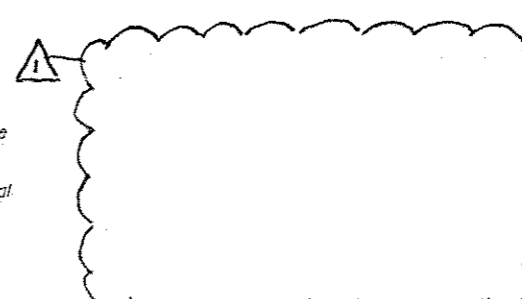
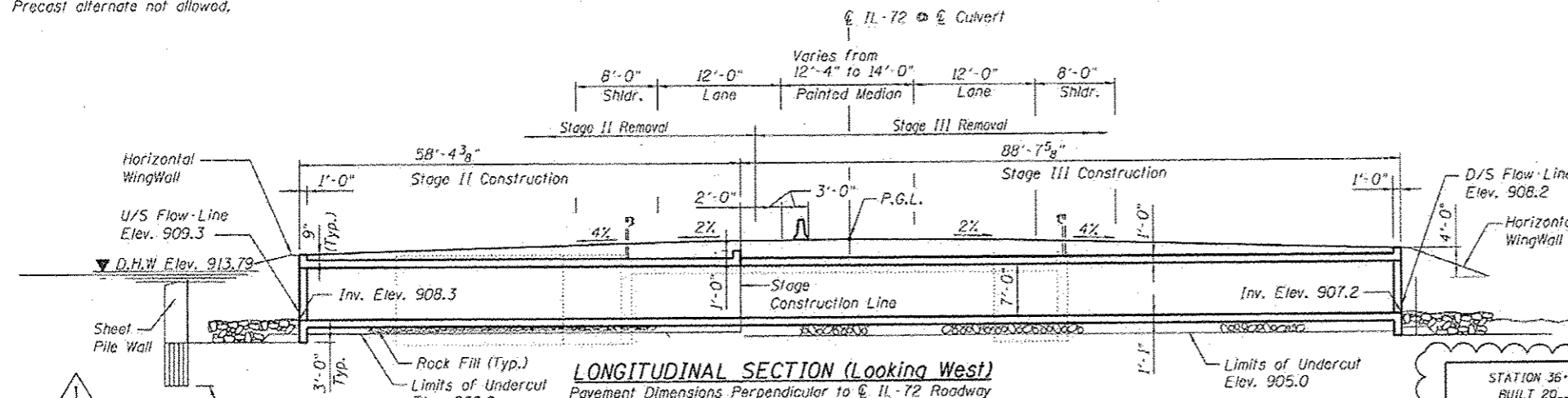
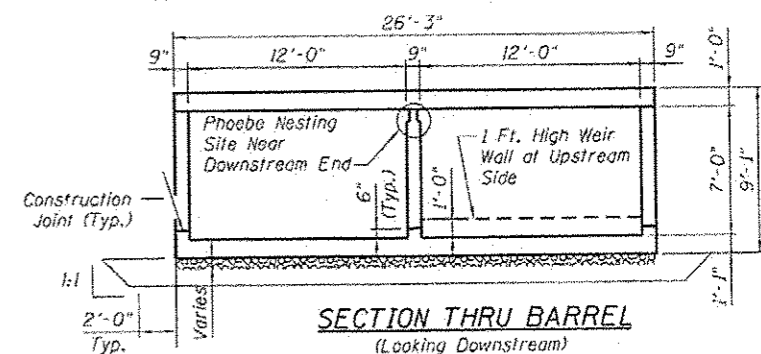
Existing Structure: SN 045-2028 was built in 1935 as part of S.B.I. Illinois Route 72. Section 109-NRS. A low flow profile was cut into the West barrel. The structure is a 2-cell cast-in-place concrete box culvert approximately 26.9 feet in width and 43 feet in length. The structure is skewed 42 degrees 15 minutes from the roadway centerline and carries two 13-foot traffic lanes (one Eastbound and Westbound) and two variable width shoulders. Traffic to be maintained utilizing stage construction. Structure to be removed and replaced with a double-cell cast-in-place concrete box culvert.

No Salvage.

Precast alternate not allowed.

WATERWAY INFORMATION

Drainage Area = 0.95 Sq. Mi.		Existing Low Grade Elev. = 917.78 ft. @ Sta. 37+37		Proposed Low Grade Elev. = 917.78 ft. @ Sta. 37.78					
Flood	Freq. Yr.	O.C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater E.I.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	10	127	58.14	65.50	912.56	0	0	912.56	912.56
Base	50	245	80.28	95.00	913.79	0	0	913.79	913.79
Overlapping	100	335	90.72	109.2	914.38	0	0	914.38	914.38
Max. Calc.	500	498	98.10	118.56	914.77	0.44	0.49	915.21	915.26



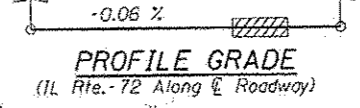
LOADING HL-93
Allow 50#/Sq ft. Future Wearing Surface

DESIGN SPECIFICATIONS
IDOT Bridge Manual January 2012, IDOT Culvert Manual, All Bridge Design Memoranda, and 2012 AASHTO LFRD Bridge Design Specifications, 6th Edition with 2013 Interims

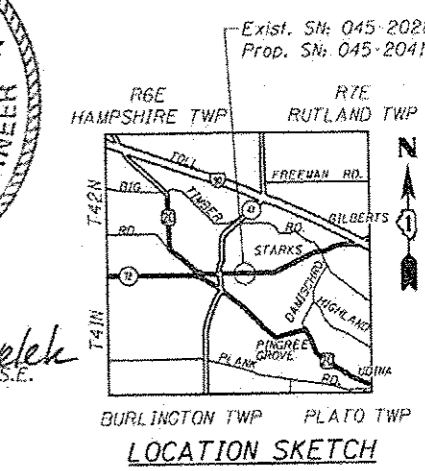
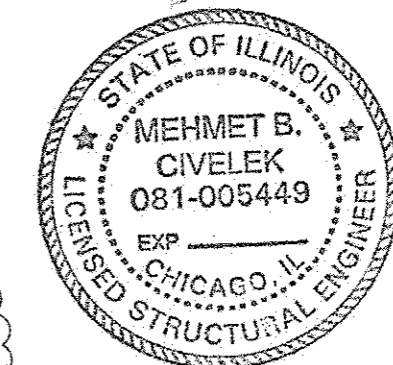
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

STATION 36+05.46
BUILT 20... BY
STATE OF ILLINOIS
F.A. RT. 345 SEC. 106-S-N-1
LOADING HL-93
STRUCTURE NO. 045-2041

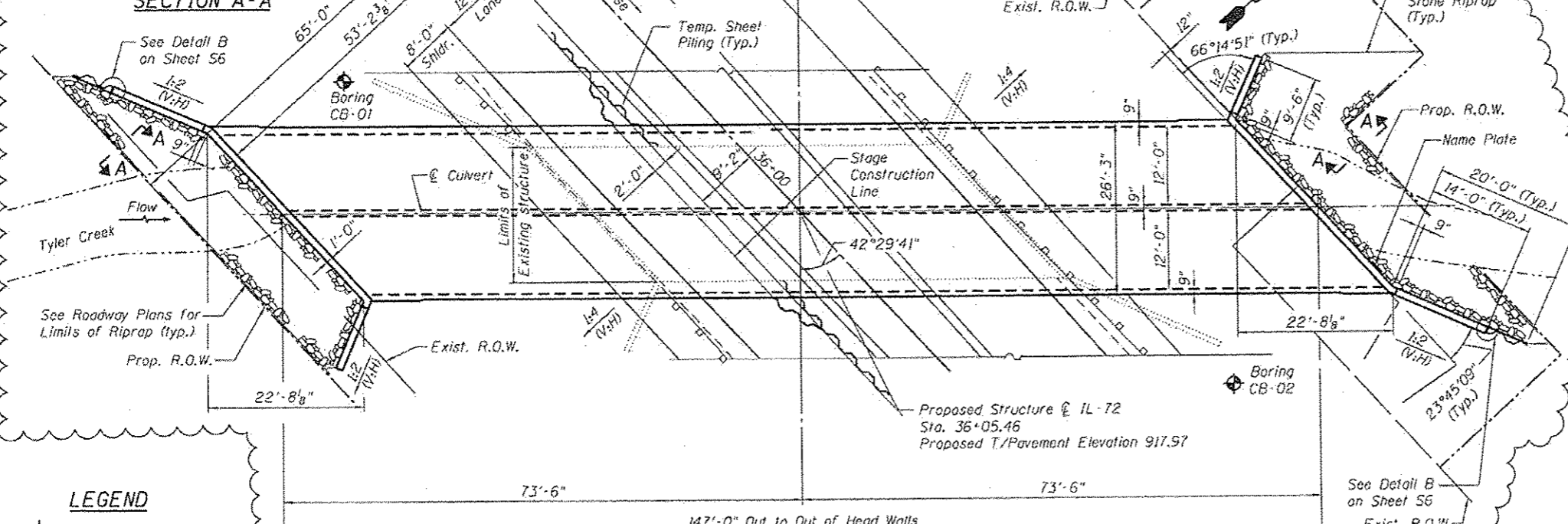
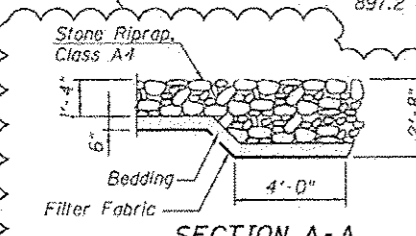
NAME PLATE
See Std. 515001



APPROVED
For Structural Adequacy Only
Mehmet B. Civelek
Engineer of Bridges & Structures



GENERAL PLAN
ILLINOIS ROUTE 72 OVER TYLER CREEK
F.A.P. ROUTE 345 - SECTION 106-S-N-1
KANE COUNTY
STATION 36+05.46
STRUCTURE NO. 045-2041



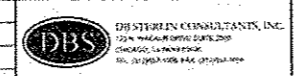
LEGEND
Soil Boring
Sheet Piling

Notes:
1. For Index of Sheets, See Sheet S2.
2. For Total Bill of Materials, See Sheet S2.

ADDENDUM 1 7-18-14

PLOT DATE = 5/24/14
FILE NAME = 9FILE13

DESIGNED - MBC	REVISIONS - 6/12/14 BA
DRAWN - SSR	REVISIONS -
CHECKED - WPR	REVISIONS -
DATE - 7/7/14	REVISIONS -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 045-2041
SHEET NO. 51 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
345	106-S-N-1	KANE	167 95
			CONTRACT NO. 60110
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			