

Benchmark: Control Point No. 4: PK nail in the north shoulder of the westbound lanes. Sta. 712+56.42 64.14 Left, Elev. 679.16

Existing Structure: Structure No. 037-2008 was constructed in 1962/1963 at Station 944+50 under FAI 74, Section 37-2-1 as a twin 14-foot diameter corrugated metal pipe culvert. During the 1963 construction season, a section of the culvert pipe failed and approximately 92-foot sections of 15-foot diameter tunnel liners were added to each pipe culvert at the failed location approximately 78 feet in from the downstream end. The pipe culverts will be relined at this same location with 12-foot ID reline pipes for approximately 180 feet each culvert.

SCOPE OF WORK: The existing twin culverts will be partially relined with 12-foot ID reline pipes approximately 180 feet in length. The reline pipe will conform to the hydraulic and structural requirements outlined in the special provision "Insertion Culvert Liner (Special)".

Traffic will be maintained during construction.

Salvage: None

**DESIGN SPECIFICATIONS**

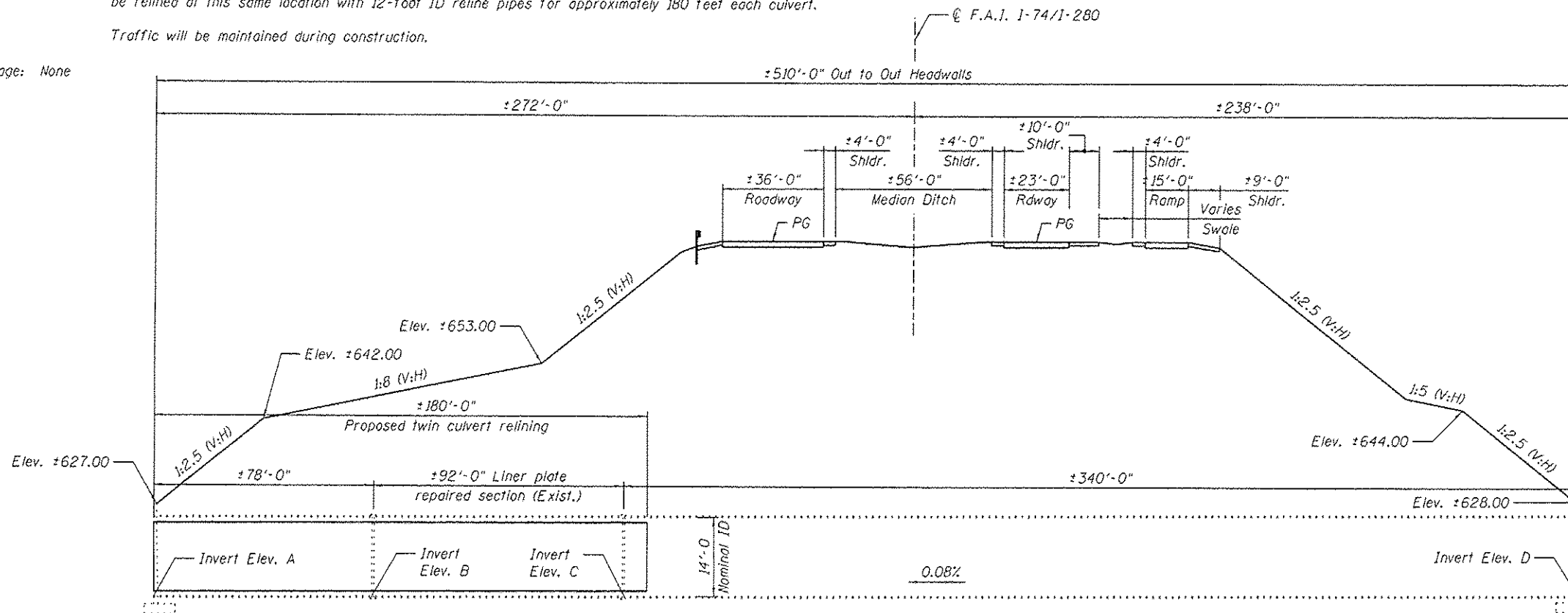
2012 AASHTO LRFD Bridge Design Specifications

**LOADING HL-93**

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

**GENERAL NOTES**

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Relining of the existing CMP pipe culverts shall adhere to the special provision "Insertion Culvert Liner (Special)".



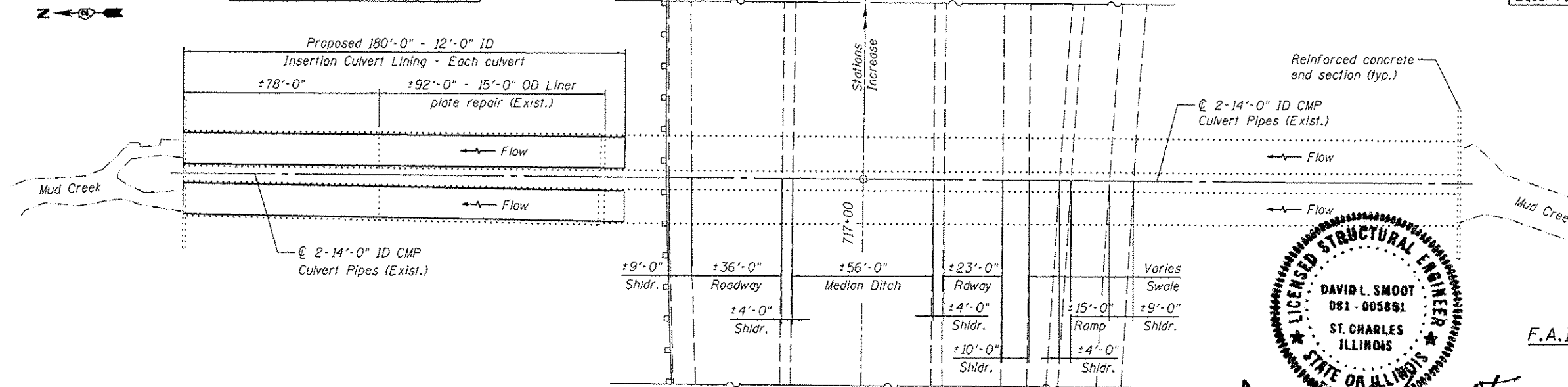
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Insertion Culvert Liner (Special)	Foot	360
Epoxy Crack Injection	Foot	170
Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	20

Invert Elevations	East	West
Invert Elev. A	611.95	611.96
Invert Elev. B	612.01	612.02
Invert Elev. C	612.08	612.09
Invert Elev. D	612.33	612.36

**INDEX OF SHEETS**

1. General Plan & Elevation
2. Existing Culvert Pipes - Details
3. Insertion Culvert Lining Details
4. Repair Details - North End Section
5. Repair Details - South End Section



DAVID L. SMOOT  
 081-005861  
 ST. CHARLES ILLINOIS  
 LICENSED STRUCTURAL ENGINEER  
 STATE OF ILLINOIS

David L. Smoot  
 Date: November 30, 2012  
 License Expires: 11/30/2014

**GENERAL PLAN & ELEVATION**  
 F.A.I. RTE I-74/I-280 OVER MUD CREEK  
 SEC. (37-2-1)M  
 HENRY COUNTY  
 STA. 717+18.00  
 STRUCTURE NO. 037-2008

FILE NAME: \\P:\projects\2012\10\100120\_P18\_157\_25\asdb\Structure\1\0\plan\1\1-280 over Mud Creek\Profile\Plan\0372008-64680-001-03A.dgn

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 116 West Main Street, Suite 201  
 St. Charles, Illinois 60174

USER NAME: nborris	DESIGNED: DLS	REVISED:
PLOT SCALE:	CHECKED: AEU	REVISED:
PLOT DATE: 1/10/2013	DRAWN: DLS	REVISED:
	CHECKED: AEU	REVISED:

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A.I. RTE. 74/280	SECTION (37-2-1)M	COUNTY HENRY	TOTAL SHEETS 27	SHEET NO. 10
SHEET NO. 1 OF 5 SHEETS			CONTRACT NO. 64680	
ILLINOIS FED. AID PROJECT				