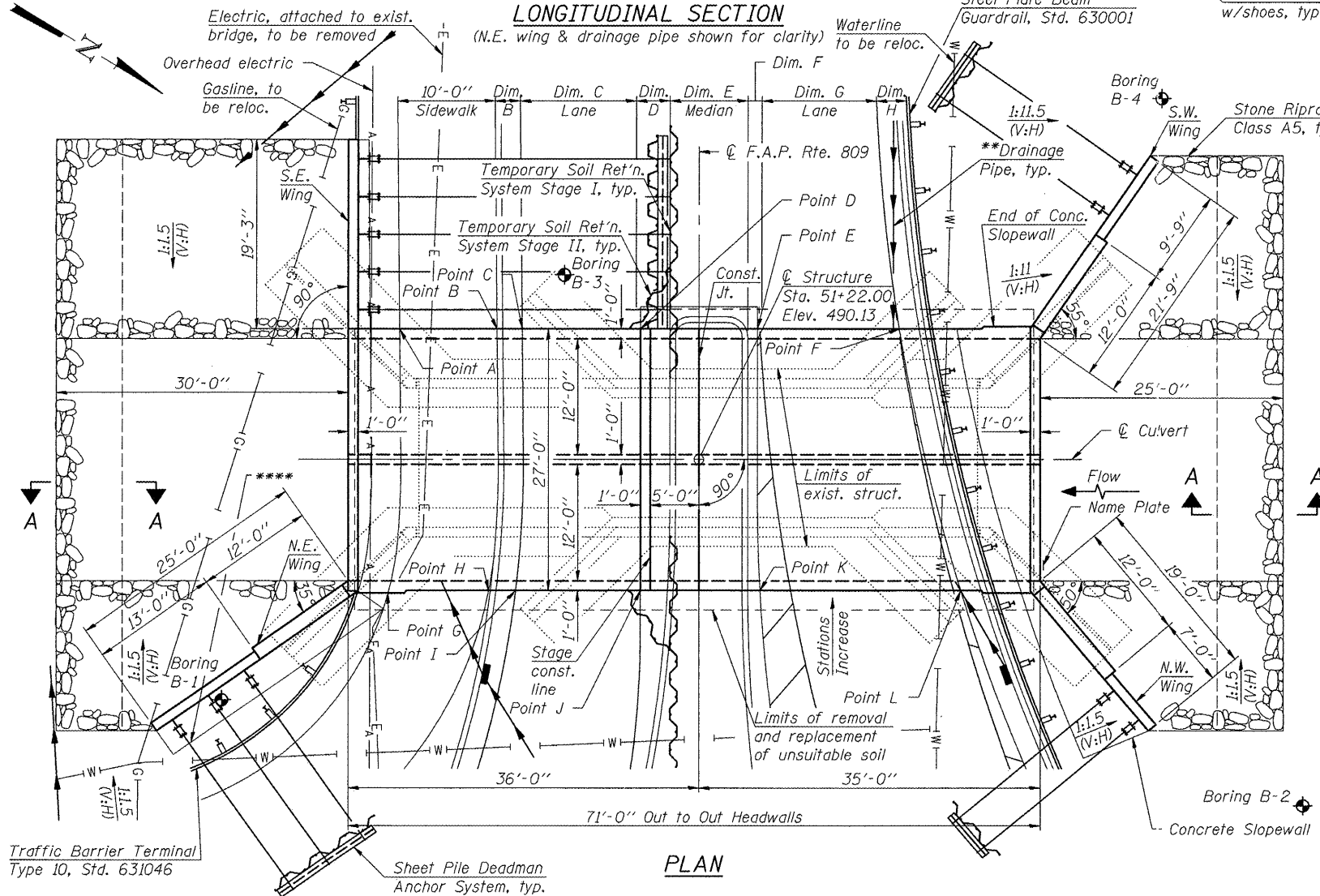
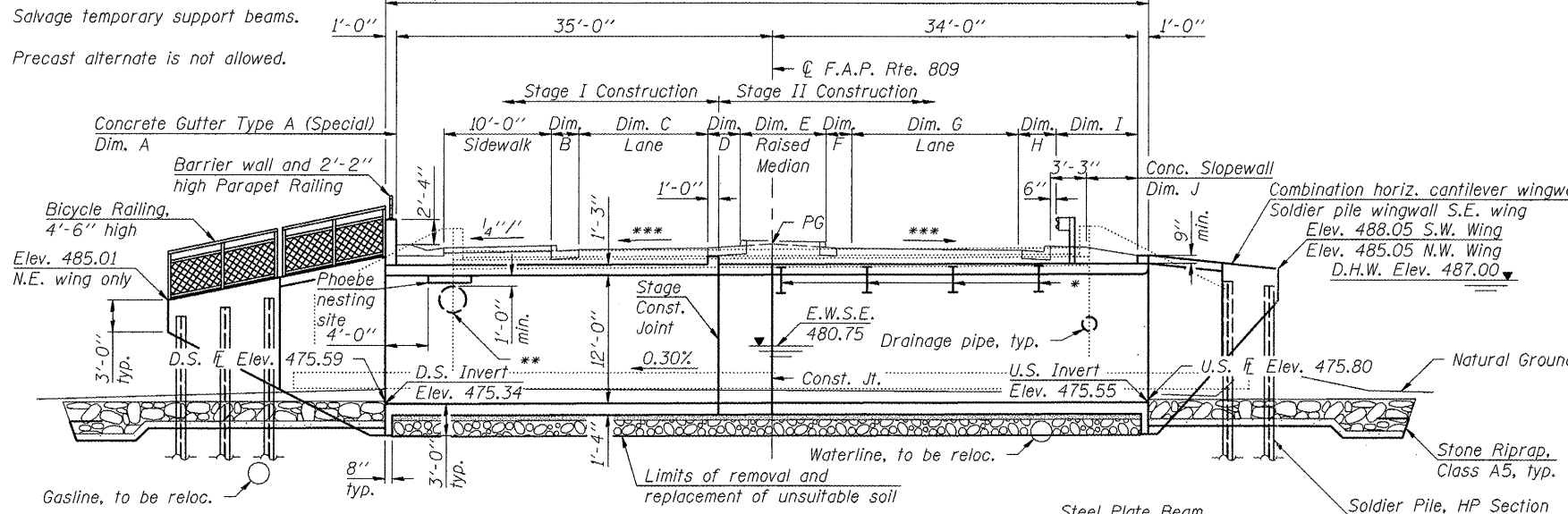


Bench Mark: RR spike in Northwest side of power pole on the East corner of IL Rte. 158 and Whiskey Road, just Southwest of IL Rte. 15. Elev. 490.27.

Existing Structure: S.N. 082-0400 was built around 1900 as S.B.I. Route 158 Section 135BY, and widened in 1958 as S.B.I. Route 158 Section 135BY. The existing structure consists of one span, 16' long, 57'-4" wide out-to-out reinforced concrete slab with bituminous overlay, and no skew. The substructure consists of closed reinforced concrete abutments founded on spread footings with attached wingwalls. Structure carries IL 158 over an Unnamed tributary to Richland Creek. The existing pavement is 26'-4" wide with a 7'-10" right shoulder and a 16'-10" left shoulder. Staged construction shall be used during construction.



**TABLE OF VARIABLE DIMENSIONS**

	Maximum	Minimum
Dim. A	4'-5"	3'-0"
Dim. B	2'-9 1/4"	2'-7"
Dim. C	12'-9 3/4"	12'-1 1/2"
Dim. D	3'-0"	2'-9 1/4"
Dim. E	8'-2 3/4"	8'-0"
Dim. F	4'-4 3/4"	1'-3"
Dim. G	16'-8 3/4"	14'-2 3/4"
Dim. H	3'-11 3/4"	3'-2 1/2"
Dim. I	10'-3 3/4"	3'-10 5/8"
Dim. J	7'-6 3/4"	1'-1 5/8"

Note: Dim. B & Dim. H include Standard B-6.24 Curb and Gutter.

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data
3. Temporary Support System
4. Temporary Soil Retention System
5. Stage Construction Details
- 6-7. Stage Construction Sequence
8. Temporary Concrete Barrier
9. Culvert Plan
- 10-11. Culvert Elevation and Details
- 12-14. Wingwall Details
15. Bicycle Railing Details
16. Steel H-Pile Details
17. Bar Splicer Details
- 18-20. Boring Logs

**LOADING HL-93**

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

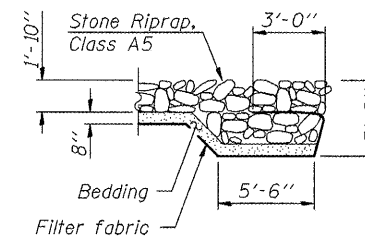
**DESIGN SPECIFICATIONS**

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50, Soldier Piles, Deadman Wale, Deadman Sheet Piles, and Tie Rod Assemblies)

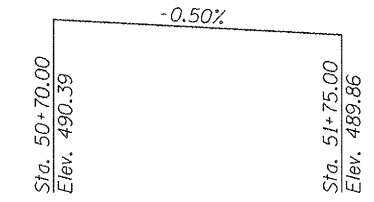


**SECTION A-A**

- \* Temporary Support Beams
- \*\* See roadway plans for drainage pipe size, location, and invert elevations.
- \*\*\* See roadway warping plans.
- \*\*\*\* Type A Gutter, see Highway Standard 606101.

**Notes:**

S.E. Wingwall is designed for vehicle impact, TL-2.  
 For soldier pile and deadman layout, see sheet 13 of 20.  
 It shall be noted that the Sheet Pile Anchor System for the S.E. Wing may coincide with the Stage II Temporary Soil Retention System. At the Contractor's option, the Sheet Pile Anchor System for the S.E. Wing may be incorporated into the Stage II Temporary Soil Retention System. The elevations and minimum section modulus shown may be adjusted to suit the design of the Temporary Soil Retention System, but shall meet the design requirements of the Sheet Pile Anchor System as a minimum. Additional materials required shall be included with Temporary Soil Retention System.



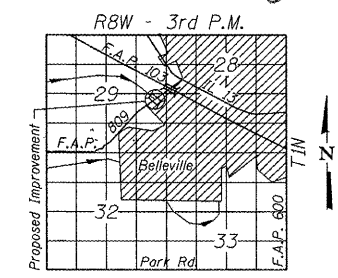
**TABLE OF ROADWAY STATIONS AND OFFSETS**

Point	Station	Offset
A	51+35.50	30'-8 1/2"
B	51+35.50	20'-8 1/2"
C	51+35.50	18'-1 1/2"
D	51+35.50	6'-0"
E	51+35.50	6'-0"
F	51+35.50	20'-6 3/4"
G	51+08.25	31'-10 5/8"
H	51+08.50	21'-7"
I	51+08.50	18'-9 3/4"
J	51+08.50	6'-0"
K	51+08.50	6'-3 1/8"
L	51+08.50	26'-10 3/8"

**APPROVED**  
 For Structural Adequacy Only  
*J. Carl Peyer (R.P.)*  
 Engineer of Bridges & Structures



*Eric Lagemann* 5/10/12  
 Expires 11/30/2012 Date



**GENERAL PLAN & ELEVATION**  
**IL 158 OVER UNNAMED CREEK**  
**F.A.P. RTE. 809 - SECTION 135-N**  
**ST. CLAIR COUNTY**  
**STATION 51+22.00**  
**STRUCTURE NO. 082-2045**

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 USER NAME = kakluus  
 PLOT SCALE =  
 PLOT DATE = 5/10/2012

DESIGNED - K.A. Klues  
 CHECKED - E.M. Lagemann  
 DRAWN - I. KrInitskly  
 CHECKED - K.A. Klues

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	144
			CONTRACT NO. 76006	
ILLINOIS FED. AID PROJECT				