

Bench Mark: Chiseled square on top of crashwall at south end of east-most pier of S.N. 049-0058. Elevation 742.33.  
Existing Structure: None

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications with 2012 Interims

**DESIGN STRESSES**

**FIELD UNITS**

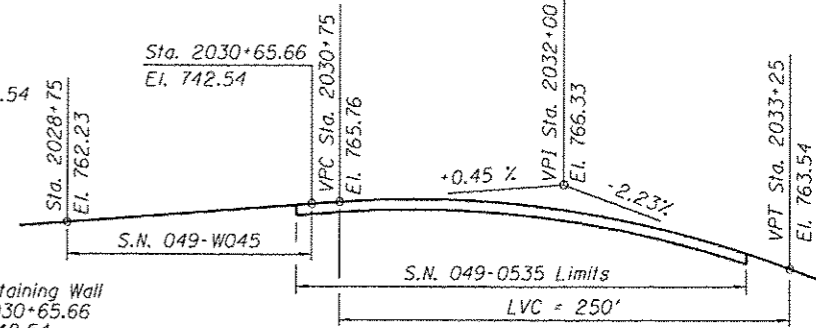
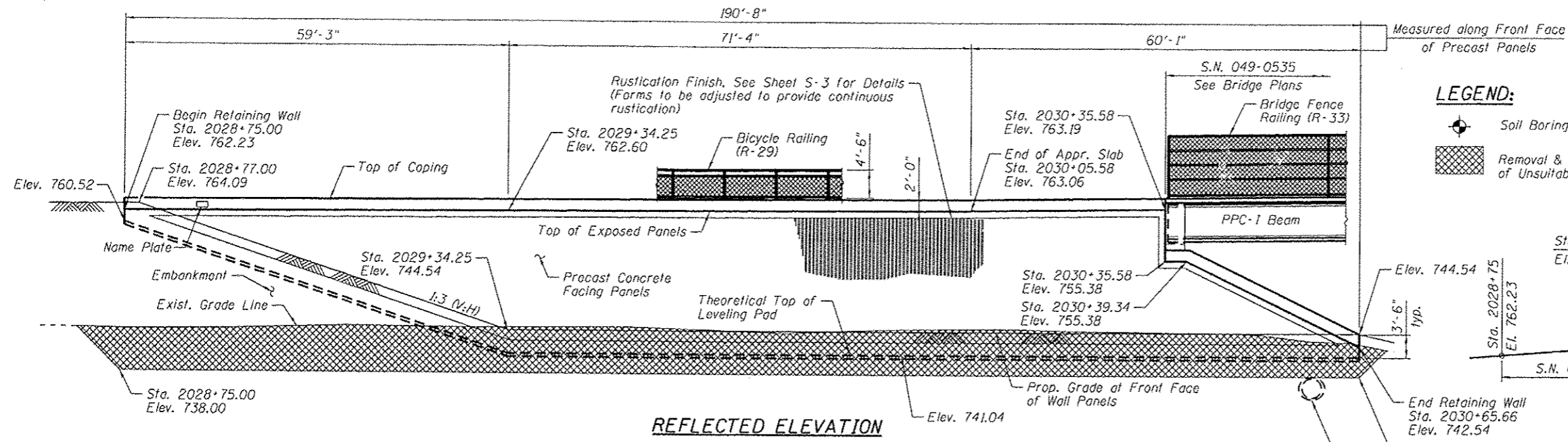
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**PRECAST UNITS**

f'c = 4,500 psi (Precast Panels)  
fy = 60,000 psi (Reinforcement)

**LEGEND:**

- Soil Boring
- Removal & Disposal of Unsuitable Materials



**PROFILE GRADE**

EB & WB IL RTE. 173  
(O.S. 15'-0" Rt./Lt. from C.Rdwy.)

**NOTES:**

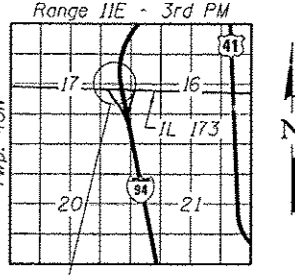
1. Horizontal dimensions measured along front face of precast panels.
2. Stations & offsets are given to front face of precast panels relative to C IL RTE 173.
3. See Sheet S-2 for Sections A-A, B-B & C-C.



SIGNED: *Brian L. Umbright*  
DATE: June 19, 2012  
EXPIRES: November 30, 2012

**APPROVE**  
For Structural Adequacy Only

*Carl Rungger*  
Engineer of Bridges & Structures



**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Removal and Disposal of Unsuitable Material	Cu. Yd.	1,200
Structure Excavation	Cu. Yd.	700
Concrete Superstructure	Cu. Yd.	41.0
Reinforcement Bars, Epoxy Coated	Pound	5,320
Bicycle Railing	Foot	132
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,200

**GENERAL PLAN & ELEVATION**  
IL RTE. 173 (ROSECRANS ROAD) OVER I-94  
F.A.P. RTE. 0303 - SEC. 49-1-R-1  
LAKE COUNTY  
STATION 2028+75.00 TO STA. 2030+65.66  
STRUCTURE NO. 049-W045

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<b>BOWMAN, BARRETT &amp; ASSOCIATES INC.</b> CONSULTING ENGINEERS Chicago, Illinois 312.228.0199 www.bbainc.com	USER NAME =	DESIGNED - JYL	DATE - JUNE 27, 2012
	PLOT SCALE =	CHECKED - BLU	REVISED -
	PLOT DATE =	DRAWN - MTR	REVISED -
		CHECKED - JYL	REVISED -

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

F.A.P. RTE. 94	SECTION 49-1-R-1	COUNTY LAKE	TOTAL SHEETS 677	SHEET NO. 475
SHEET NO. S-1 OF S-6 SHEETS				CONTRACT NO. 601.77
ILLINOIS FED. AID PROJECT				