BENCHMARK: Existing chiseled square on south end of northwest wingwall, on SN 082-0051, El. 493.11.

EXISTING STRUCTURE: Structure numbers 082-0051 and 082-0052 were constructed in 1956. These structures consist of dual 8 span built-up steel girder spans: one three-span continuous, one simple span and two, two-span continuous. The riveted girders are supported on pile supported abutments and piers. The overall length of SN 082-0051 (Westbound) is 808 feet and SN 082-0052 (Eastbound) is 746 feet. Each structure provides 35'-8" out-to-out of deck with 30' of roadway width. Both structures were rehabilitated in 1985. Traffic will be maintained on SN 082-0051 while the new eastbound structures are constructed: traffic will then be moved to the new eastbound structures until the westbound structures are complete.

Salvage: None

DESIGN STRESSES

FIELD UNITS

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

PRECAST CONCRETE UNITS

f'c = 4,500 psi (Panels)

DESIGN SPECIFICATIONS

2002 AASHTO Std. Specifications for Highway Bridges, 17th Edition

STATION 10+35.89
BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 103 SEC. 27-1-VHB-1
STRUCTURE NO. 082-W313

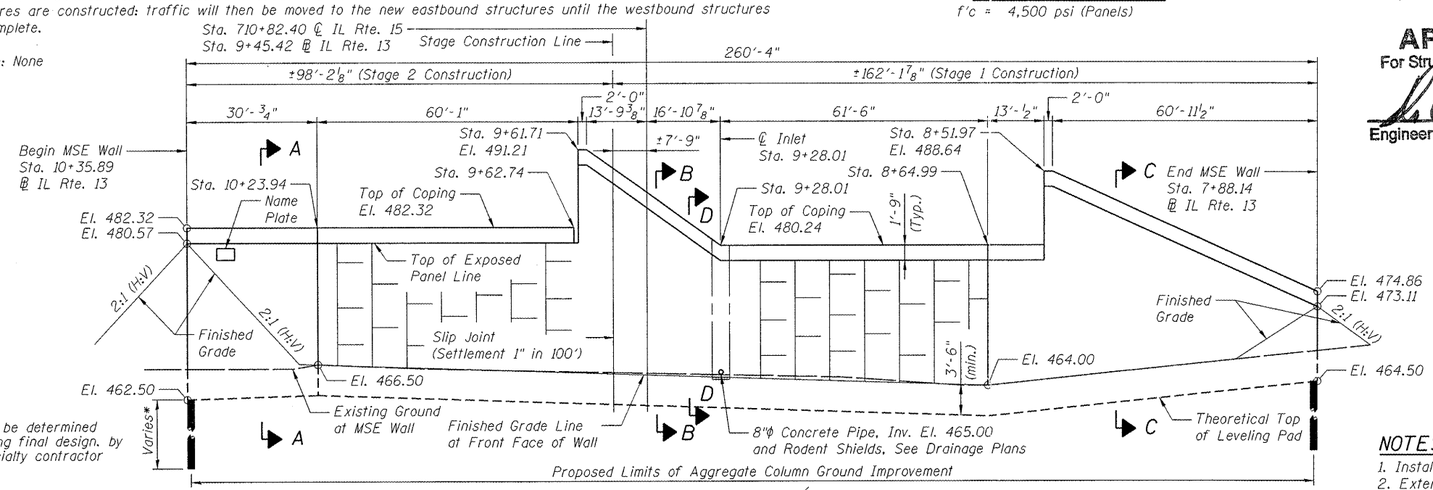
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

INDEX OF SHEETS

1. General Plan
2. Typical Sections & Bill of Material
3. Sections at Inlet
4. Boring Logs 1
5. Boring Logs 2

NAME PLATE

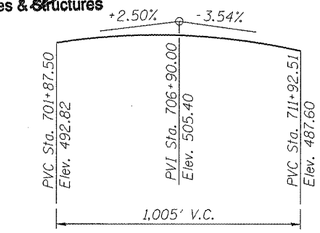
See Std. 515001



*To be determined during final design, by specialty contractor

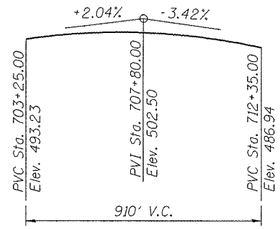
PROFILE GRADE

FAP 103 (IL 15 W.B.)



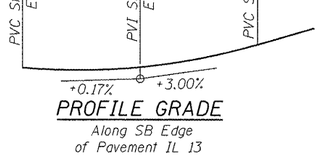
PROFILE GRADE

FAP 103 (IL 15 E.B.)



NOTES ON GROUND IMPROVEMENT:

1. Install anywhere with 10 feet or more of new fill.
2. Extend 5 feet beyond toes of fill slopes taller than 10 feet.
3. Extend 5 feet in front of face of MSE walls, except within 5 feet of existing deep foundations.
4. Ground improvement elements need to be maintained a minimum of 3 feet away from any new pile locations.



PROFILE GRADE

Along SB Edge of Pavement IL 13

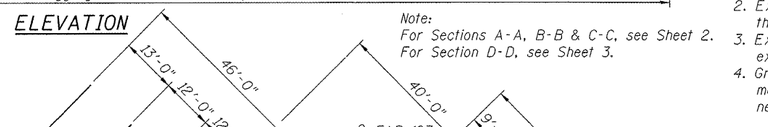
STATE OF ILLINOIS · DEBORAH A. BRUSH · 081-005152 · LICENSED STRUCTURAL ENGINEER

Signature 12-8-11 Date

November 30, 2012 Expires

ELEVATION

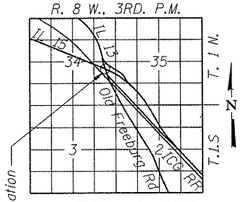
Note:
For Sections A-A, B-B & C-C, see Sheet 2.
For Section D-D, see Sheet 3.



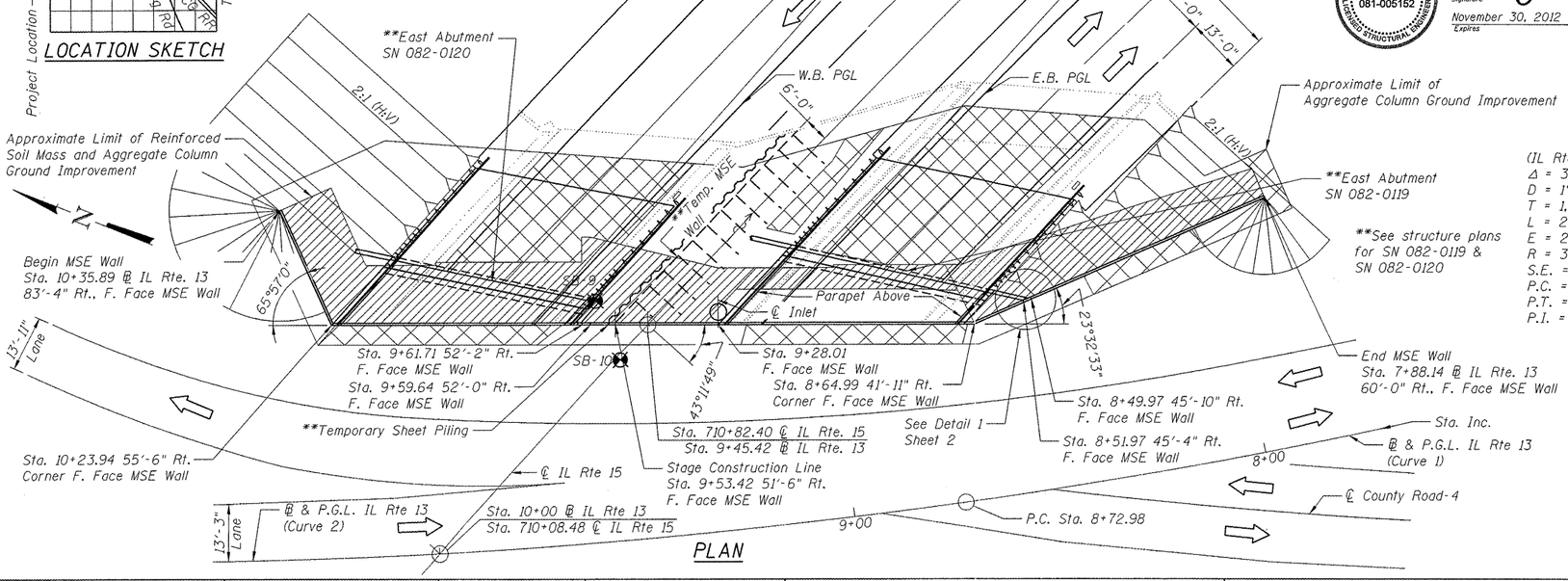
LEGEND:

Approximate Limit of Reinforced Soil Mass and Aggregate Column Ground Improvement

Approximate Limit of Aggregate Column Ground Improvement



LOCATION SKETCH



PLAN

CURVE DATA

(IL Rte. 15)	(IL Rte. 13-Curve 1)	(IL Rte. 13-Curve 2)
Δ = 37° 55' 48" (RT)	Δ = 16° 53' 45" (RT)	Δ = 17° 42' 18" (RT)
D = 1° 36' 00"	D = 4° 24' 27"	D = 3° 49' 11"
T = 1,230.59'	T = 193.08'	T = 233.62'
L = 2,370.64'	L = 383.36'	L = 463.52'
E = 205.54'	E = 14.26'	E = 18.08'
R = 3,581.00'	R = 1,300.00'	R = 1,500.00'
S.E. = 3.9%	S.E. = 3.0%	S.E. = 3.0%
P.C. = Sta. 709+26.15	P.C. = Sta. 4+89.63	P.C. = Sta. 8+72.98
P.T. = Sta. 732+96.79	P.T. = Sta. 8+72.98	P.T. = Sta. 13+36.50
P.I. = Sta. 721+56.75	P.I. = Sta. 6+82.71	P.I. = Sta. 11+06.60

GENERAL PLAN
ILLINOIS ROUTE 15 OVER ILLINOIS ROUTE 13
F.A.P. RTE. 103 - SEC. 27-1-VHB-1
ST. CLAIR COUNTY
STA. 10+35.89 TO STA. 7+88.14
STRUCTURE NO. 082-W313

USER NAME = Scott Whitney	DESIGNED - PMM	REVISED -	---
	CHECKED - DAZ	REVISED -	---
PLOT SCALE = 32:0.0000 ' / IN.	DRAWN - SAW	REVISED -	---
PLOT DATE = 12/7/2011	CHECKED - PMM	REVISED -	---

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 082-W313
SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	241
		CONTRACT NO. 76884		
		ILLINOIS FED. AID PROJECT		

FILE NAME = 082w313_76884_001_GPE.dgn