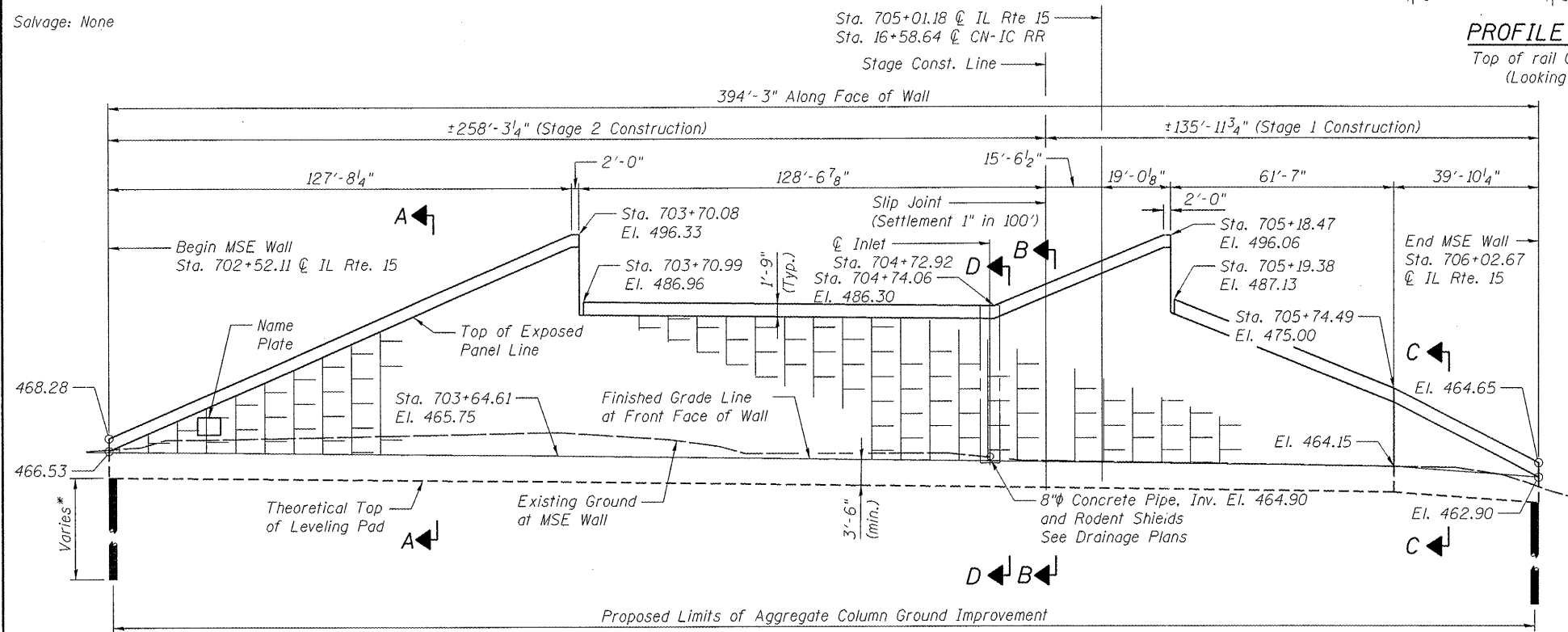


BENCHMARK: Existing chiseled square on south end of northwest wingwall on Structure No. 082-0051, El. 493.11.

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 is 35'-8" out-to-out of deck, with 30 feet 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



STATION 702+52.11
BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 103 SEC. 27-1-VHB-1
STRUCTURE NO. 082-W311

CURVE DATA
(IL Rte. 15)
 $\Delta = 37^\circ 55' 48''$ (RT)
 $D = 1^\circ 36' 00''$
 $T = 1,230.59'$
 $L = 2,370.64'$
 $E = 205.54'$
 $R = 3,581.00'$
 $S.E. = 3.9\%$
 $P.C. = Sta. 709+26.15$
 $P.T. = Sta. 732+96.79$
 $P.I. = Sta. 721+56.75$

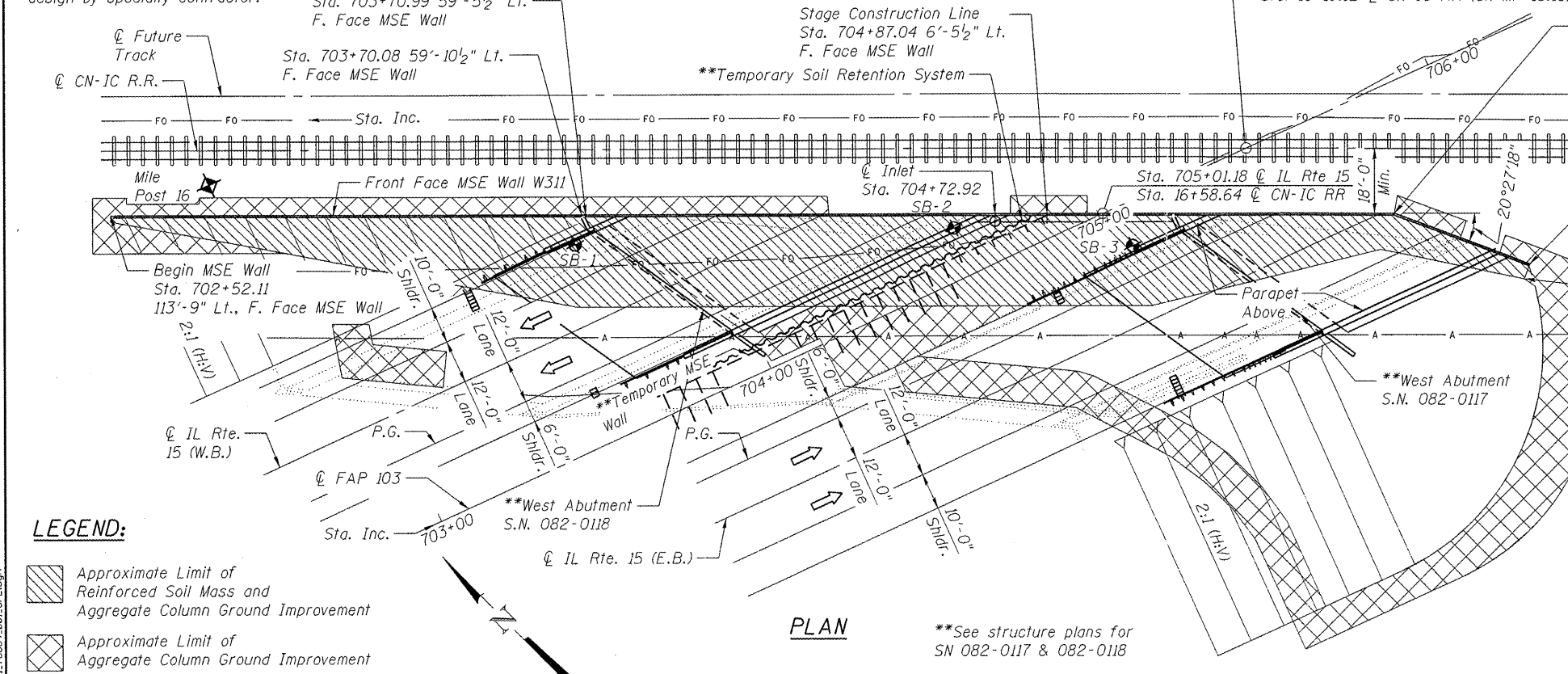
INDEX OF SHEETS

- General Plan
- Typical Sections & Bill of Material
- Sections at Inlet
- Boring Logs 1
- Boring Logs 2

NOTES ON GROUND IMPROVEMENT:

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

ELEVATION (REFLECTED VIEW)



APPROVED
For Structural Adequacy Only
De Carl Perry
Engineer of Bridges & Structures

STATE OF ILLINOIS
SEBASTIAN A. JORDAN
081-005152
Professional Engineer
Dash Jordan 12-8-11
November 30, 2012
Expires

DESIGN SPECIFICATIONS

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

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)
PRECAST CONCRETE UNITS
 $f'_c = 4,500$ psi (Panels)

GENERAL PLAN
ILLINOIS ROUTE 15 OVER CN-IC RR
FAP 103 - SEC.27-1-VHB-1
ST. CLAIR COUNTY
STA. 702+52.11 TO STA. 706+02.67
STRUCTURE NO. 082-W311

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

USER NAME = Scott Whitney	DESIGNED - PMM	REVISIONS -
PLOT SCALE = 428.0000 1" = 100'	CHECKED - DAZ	REVISIONS -
PLOT DATE = 12/7/2011	DRAWN - SAW	REVISIONS -
	CHECKED - PMM	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 082-W311
SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	229
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				