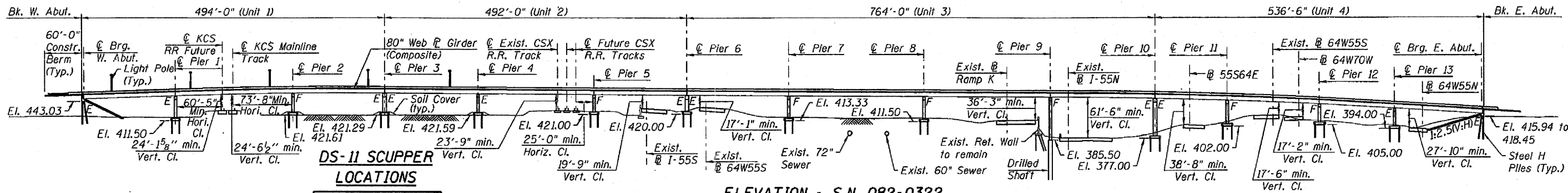
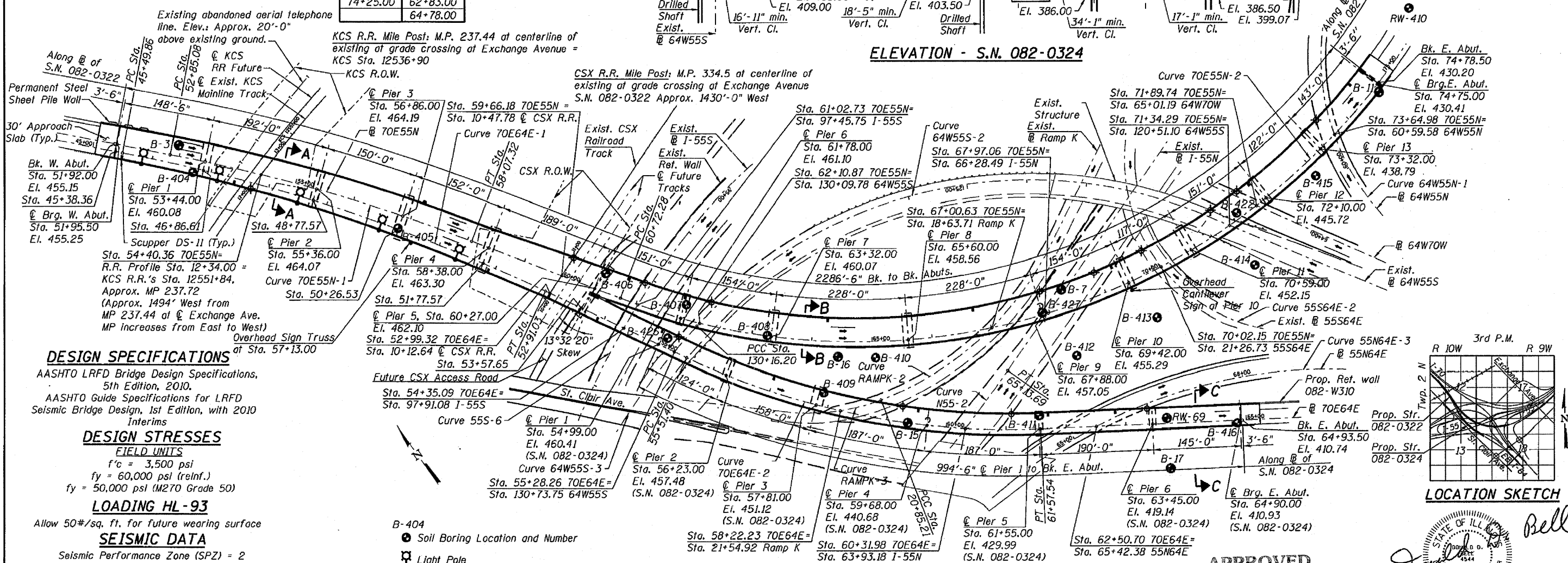
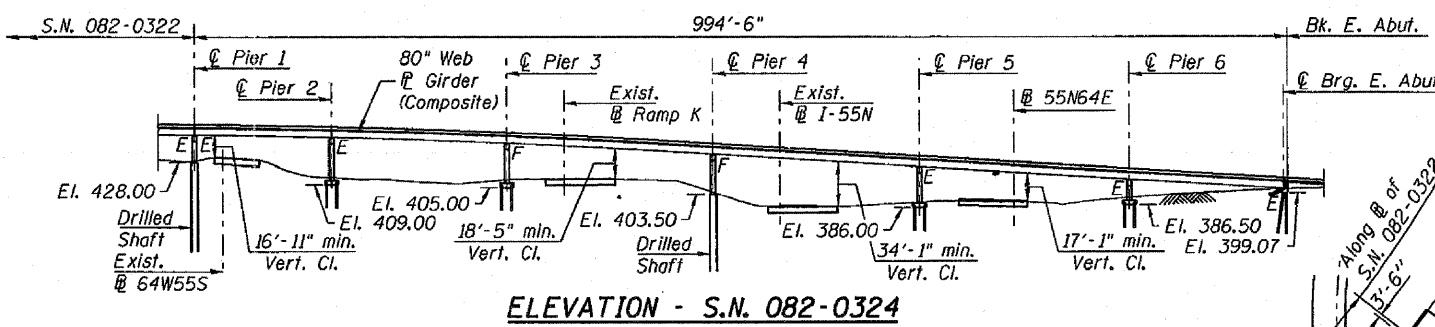


BENCH MARK BM 25: Chiseled square in concrete foundation of manhole structure between I-55/70 WB & CSX RR, northeasterly of St. Clair Avenue. 70E55N Sta. 60+32, 65' Rt. Elevation 419.77
Existing Structure: None.



DS-II SCUPPER LOCATIONS

Station along @	
70E55N	70E64E
52+07.00	51+90.00
54+00.00	53+00.00
60+75.00	53+54.00
61+72.00	53+90.00
64+25.00	54+93.00
66+75.00	57+00.00
69+25.00	59+50.00
72+00.00	61+70.00
74+25.00	62+83.00
	64+78.00



DESIGN SPECIFICATIONS
AASHTO LRFD Bridge Design Specifications, 5th Edition, 2010.
AASHTO Guide Specifications for LRFD Seismic Bridge Design, 1st Edition, with 2010 Interims

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinf.)
fy = 50,000 psi (M270 Grade 50)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface

SEISMIC DATA
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.24g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.54g
Soil Site Class = D

- B-404 ● Soil Boring Location and Number
- ⊕ Light Pole
- ⊕ Point of minimum vertical clearance

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
[Signature]
ENGINEER OF BRIDGES AND STRUCTURES

LOCATION SKETCH
TWP. 2 N R 10 W 3rd P.M. R 9 W
Prop. Str. 082-0322
Prop. Str. 082-0324
License Expires: 11/30/12
Date Signed: 8-8-11