

Benchmark: Chiseled "x" on sign bolt (SW). Sign reads "Calumet City Lansing Exit 161" westbound I-80 across from mile marker 163.01. Elev. = 182.212

Existing Structure: None  
All dimensions in millimeters (mm) except as noted.

**DESIGN STRESSES**

**FIELD UNITS**  
f'c = 24 MPa  
fy = 400 MPa (Reinf.)  
Maximum Applied Soil Bearing Pressure = 140 kPa

**DESIGN SPECIFICATIONS**

AASHTO 2002 Standard Specifications for Highway Bridges

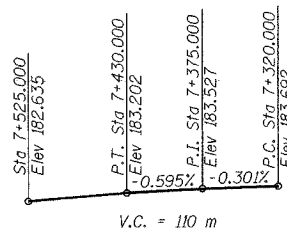
AASHTO 1989 Guide Specifications for Structural Design of Sound Barriers and 1992 Interims

**CURVE DATA I-80/94**

$\Delta = 20^\circ 11' 25"$   
D = 2.979°  
R = 1923.6  
T = 342.476  
L = 677.849  
E = 30.249  
P.C. = 7+380.276  
P.I. = 7+722.751  
P.T. = 8+058.125  
S.E. = 2.9%

**LOADING**

Wind Load on Future Noise Wall = 1.7 kPa

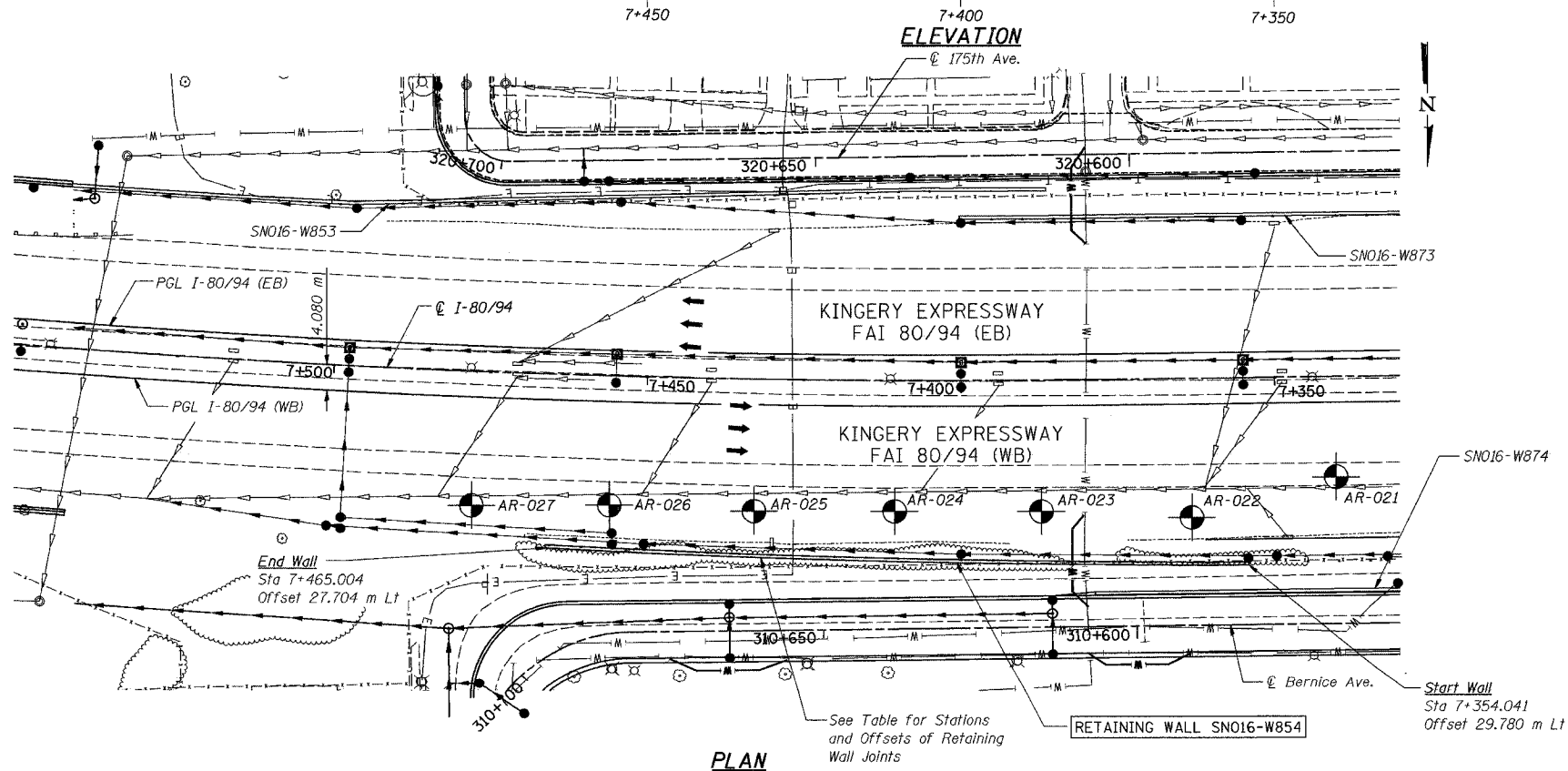
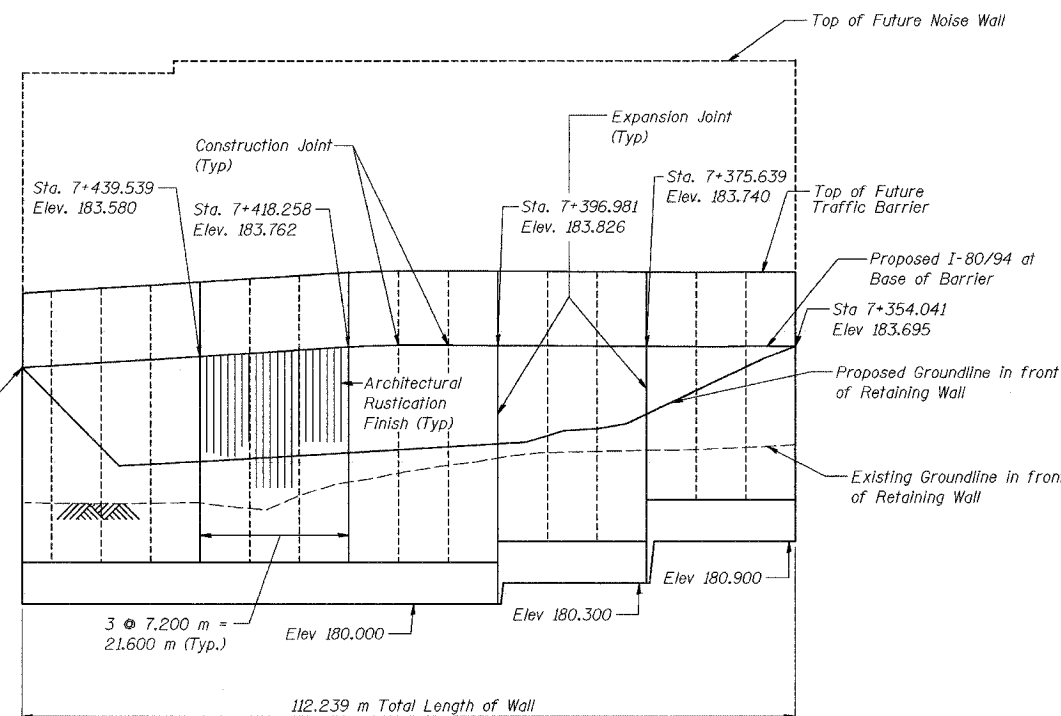


**PROFILE GRADE  
FUTURE I-80/94 WESTBOUND**

**TABLE**

EXPANSION OR CONSTRUCTION JOINT STATION	OFFSET TO FRONT FACE OF WALL
7+354.041	29.780 Lt
7+361.242	29.780 Lt
7+368.441	29.636 Lt
7+375.639	29.492 Lt
7+382.799	29.348 Lt
7+389.890	29.207 Lt
7+396.981	29.065 Lt
7+404.073	28.923 Lt
7+411.165	28.782 Lt
7+418.258	28.639 Lt
7+425.351	28.498 Lt
7+432.445	28.356 Lt
7+439.539	28.214 Lt
7+446.634	28.072 Lt
7+453.730	27.930 Lt
7+460.825	27.787 Lt
7+465.004	27.704 Lt

DESIGNED	KFA
CHECKED	MJW
DRAWN	MJW
CHECKED	GSP



ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. S-1
F.A.I. 80/94	307R	COOK	1207	797	12 SHEETS

CONTRACT No. 62114

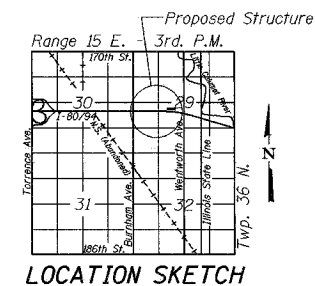
**LEGEND**

- Soil Boring Location
- Existing Roadway/Structure
- Proposed Roadway/Structure
- Tree
- Shrubs/Brush
- Proposed Storm Sewer
- Existing Storm Sewer
- Existing Water Main
- Existing Electricity Line
- Existing Telephone Line
- Storm Sewer by Others



GARY S. POWELL, S.E.  
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EXP \_\_\_\_\_  
DATE \_\_\_\_\_



ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 80/94 AND U.S. ROUTE 6  
LOCAL ROAD RECONSTRUCTION

GENERAL PLAN  
SECTION 2001-167R  
COOK COUNTY  
STATION 7+354.041 to STATION 7+465.004  
STRUCTURE NO. 016-W854

DATE 07/05



FOR INFORMATION ONLY