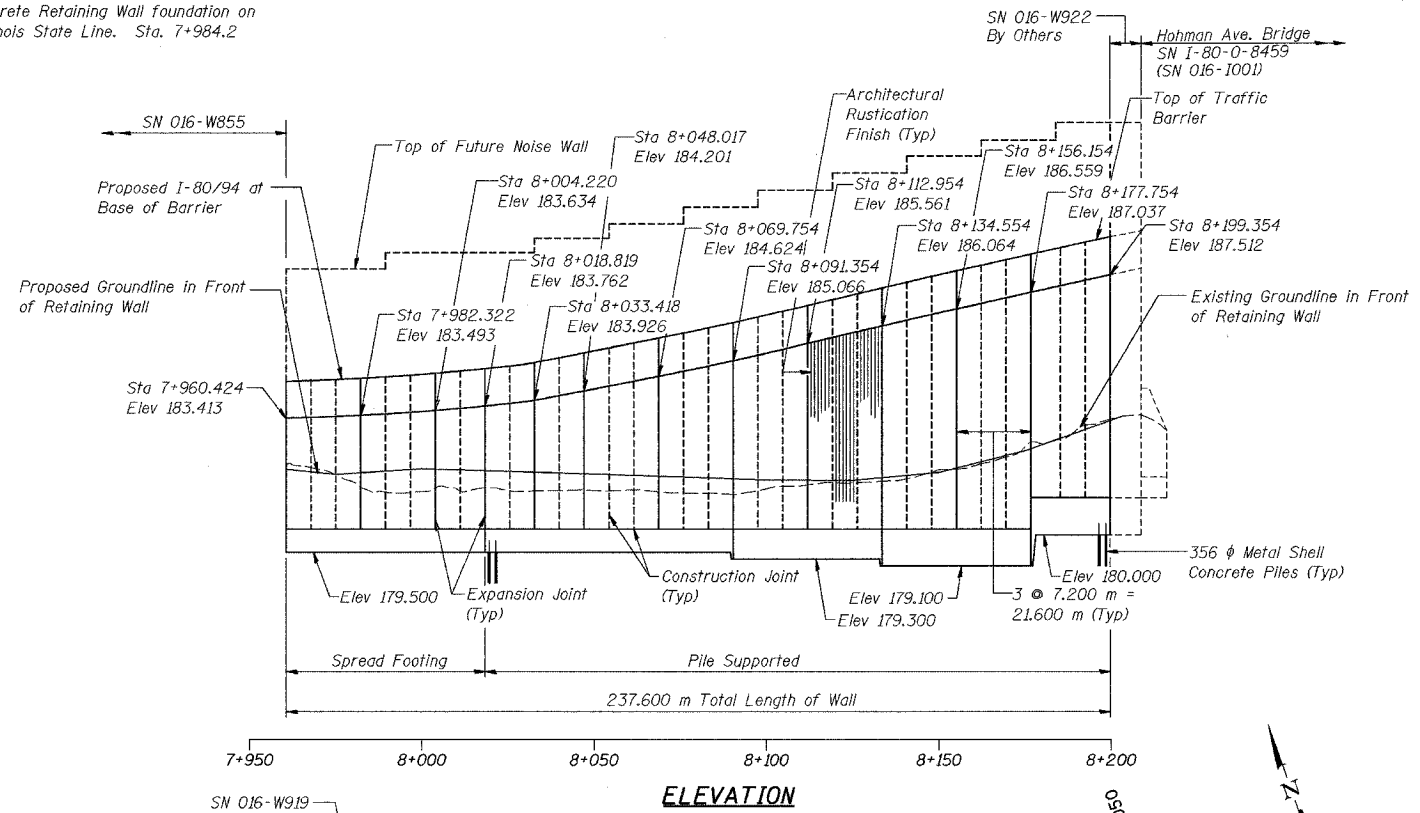


Benchmark: Chiseled box on Northeast corner of concrete Retaining Wall foundation on South side of I-80 +/- 50M East of Illinois State Line. Sta. 7+984.2  
Offset 22.2 Rt. Elevation = 182.386  
Existing Structure: None  
All dimensions in millimeters (mm) except as noted.

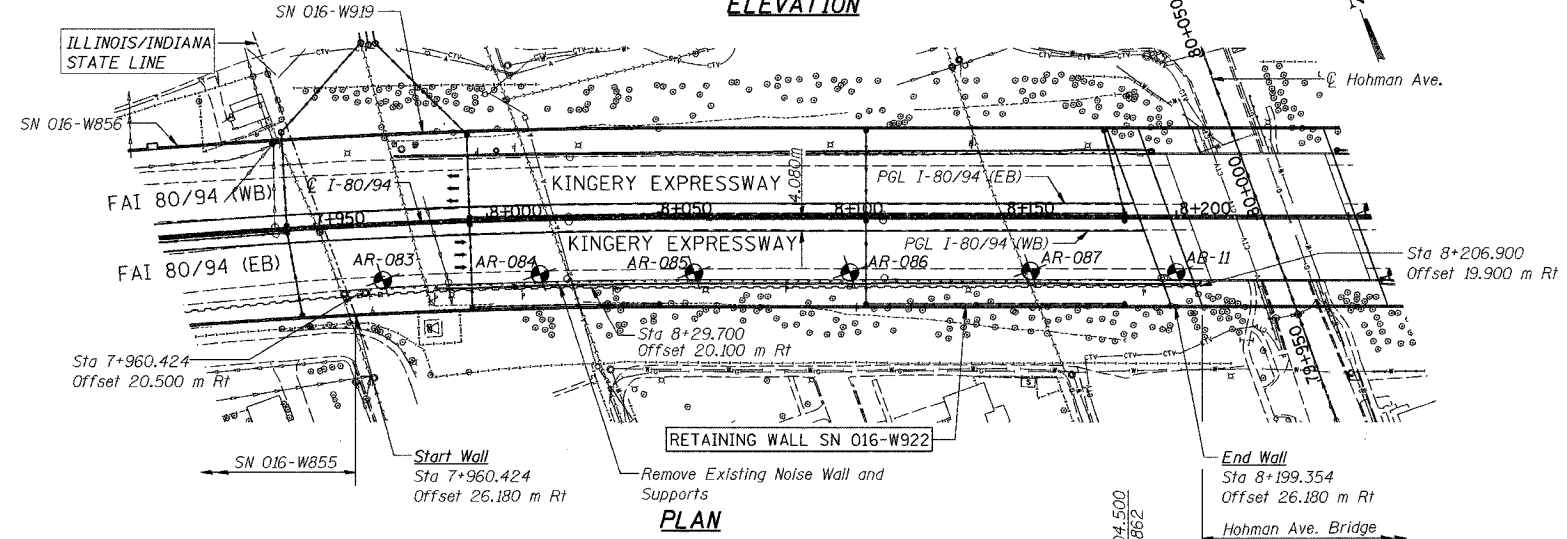
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO. S-1
I-80/94	2626.2-R-1	LAKE COUNTY, INDIANA	452 177	19 SHEETS
CONTRACT NO. 62113 INDOT DES. NO. 0100987				



**LOADING**  
Wind Load on Future Noise Wall = 1.7 kPa

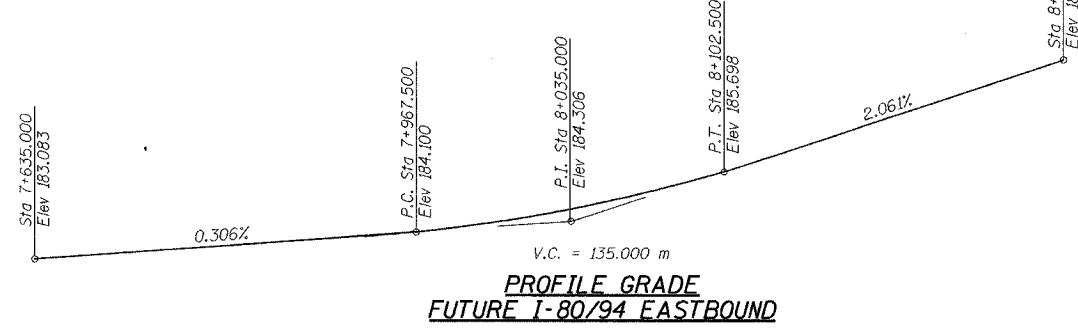
**DESIGN STRESSES**  
FIELD UNITS  
f'c = 24 MPa  
fy = 400 MPa (Reinf.)  
Maximum Applied Soil Bearing Pressure = 170 kPa

**DESIGN SPECIFICATIONS**  
AASHTO 2002 Standard Specifications for Highway Bridges  
AASHTO 1989 Guide Specifications for Structural Design of Sound Barriers and 1992 Interims



- LEGEND**
- ⊕ - Soil Boring Location
  - - - Existing Roadway/Structure
  - Proposed Roadway/Structure
  - ⊙ - Tree
  - ⊙ - Shrubs/Brush
  - Proposed Storm Sewer
  - - - Existing Sanitary Sewer
  - Existing Storm Sewer
  - CTV - Existing Cable TV
  - Existing Gas Line
  - Existing Water Main
  - Electrical Aerial Cable
  - Temporary Sheet Piling

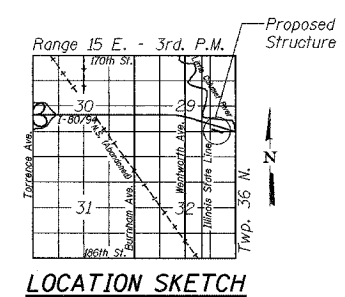
DESIGNED	MJW
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP



Gary S. Powell  
GARY S. POWELL, S.E.  
IL. LIC. NO. 081-004771  
EXP 11-30-2004  
DATE 9-16-2004

Gary S. Powell  
GARY S. POWELL, P. E.  
IN. LIC. NO. 10403944  
EXP 7-31-2006  
DATE 9-16-2004

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES



**CURVE DATA I-80/94**  
Δ = 20°-11'-25"  
R = 1,923.600 m  
T = 342.476 m  
L = 677.849 m  
E = 30.249 m  
P.C. Sta = 7+380.276  
P.I. Sta = 7+722.751  
P.T. Sta = 8+058.125  
S.E. = 2.9%

Note: Retaining Wall is built in straight line segments between Expansion and Construction Joints. Back Face of the Retaining Wall is aligned with the outside edge of shoulder at joints.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORNHAM EXPRESSWAY  
BURNHAM ROAD TO US 41

**GENERAL PLAN**  
SECTION 2626.2-R-1  
LAKE COUNTY, INDIANA  
STATION 7+960.424 TO STATION 8+199.354  
STRUCTURE NO. 016-W922  
DATE 07/04

**AMERICAN**  
CONSULTING ENGINEERS