Benchmark: Chiseled ☐ on southeast corner of concrete base of Illinois Department of Transportation System Control Box, located south side of I-80 ± 200 m west of Wentworth Avenue. Elev = 182.074

Existing Structure: None

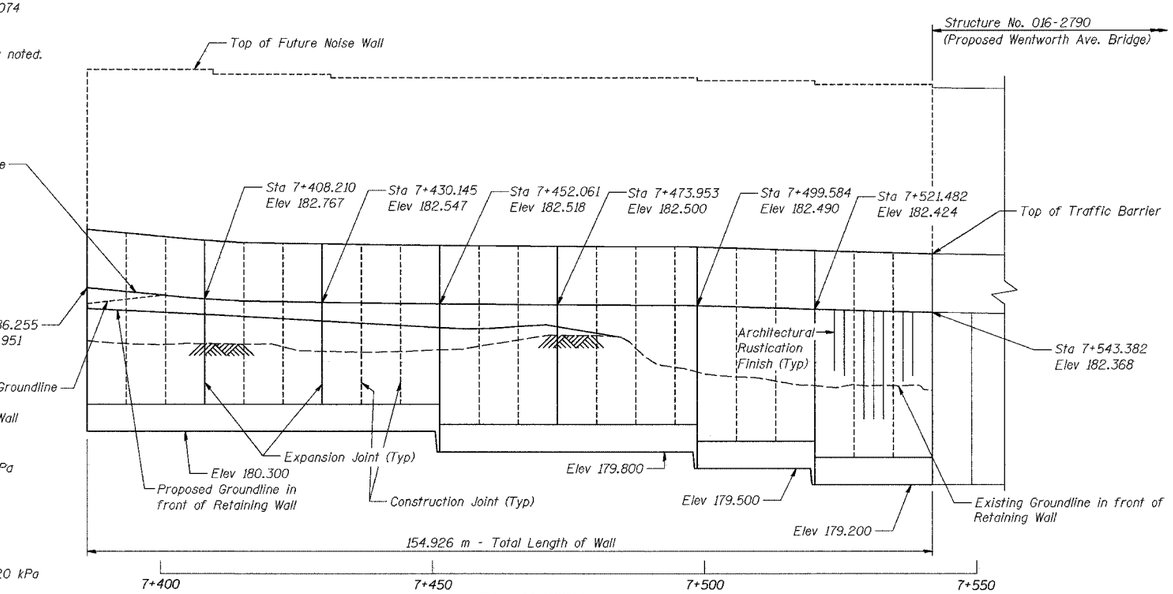
All dimensions in millimeters (mm) except as noted.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94	2001-167R	COOK	1207	783
		ILLINOIS	FED. AID PROJECT-	D-95-081-89

SHEET NO. S-1

14 SHEETS

CONTRACT No. 62114



ELEVATION

CURVE DATA I-80/94

Δ= 20° 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

DESIGN STRESSES

FIELD UNITS

f'c = 24 MPa

fy = 400 MPa (Reinf.)

Maximum Applied Soil Bearing Pressure = 120 kPa

DESIGN SPECIFICATIONS

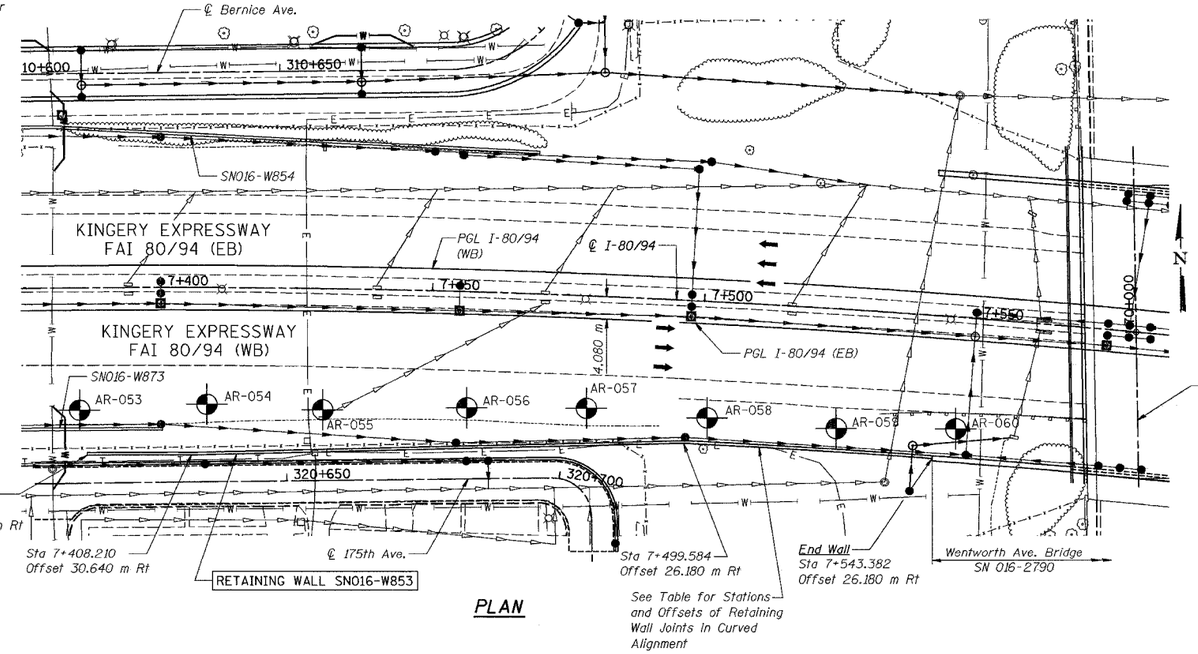
AASHTO 2002 Standard Specifications for Highway Bridges

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

TABLE

EXPANSION OR CONSTRUCTION JOINT STATION	OFFSET TO FRONT FACE OF WALL
7+499.584	26.180 Rt
7+506.883	26.180 Rt
7+514.183	26.180 Rt
7+521.482	26.180 Rt
7+528.781	26.180 Rt
7+536.082	26.180 Rt

DESIGNED	KFA
CHECKED	MJW
DRAWN	MJW
CHECKED	GSP



PLAN

LEGEND

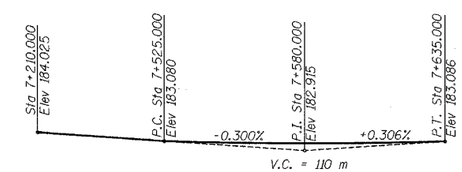
- Soil Boring Location
- Existing Roadway/Structure
- Proposed Roadway/Structure
- Tree
- Shrubs/Brush
- Proposed Storm Sewer
- Existing Storm Sewer
- W — Existing Water Main
- E — Existing Electricity Line
- T — Existing Telephone Line
- Storm Sewer by Others

LICENSED STRUCTURAL ENGINEER
GARY S. POWELL
081-004771
CHICAGO
ILLINOIS
STATE OF ILLINOIS

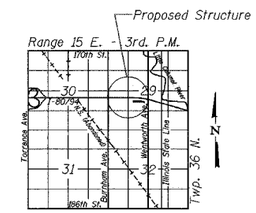
GARY S. POWELL, S.E.
IL. LIC. NO. 081-004771

EXP _____

DATE _____



PROFILE GRADE
FUTURE I-80/94 EASTBOUND



LOCATION SKETCH

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+386.260 to STATION 7+543.382
STRUCTURE NO. 016-W853

DATE 07/05

AMERICAN CONSULTING ENGINEERS

FOR INFORMATION ONLY