

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK	1207	526
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				

BENCHMARK:

BM "M" Chiseled square cut in southwest wingwall of existing IL Rte 83 (Torrence Avenue) bridge over I-80. El. 188.209

DESIGN SPECIFICATIONS:

1996 AASHTO Standard Specifications for Highway Bridges, with 1997 thru 2000 & 2002 Interims.
1989 AASHTO Guide Specifications for Structural Design of Sound Barriers with 1992 Interims.

DESIGN STRESSES:

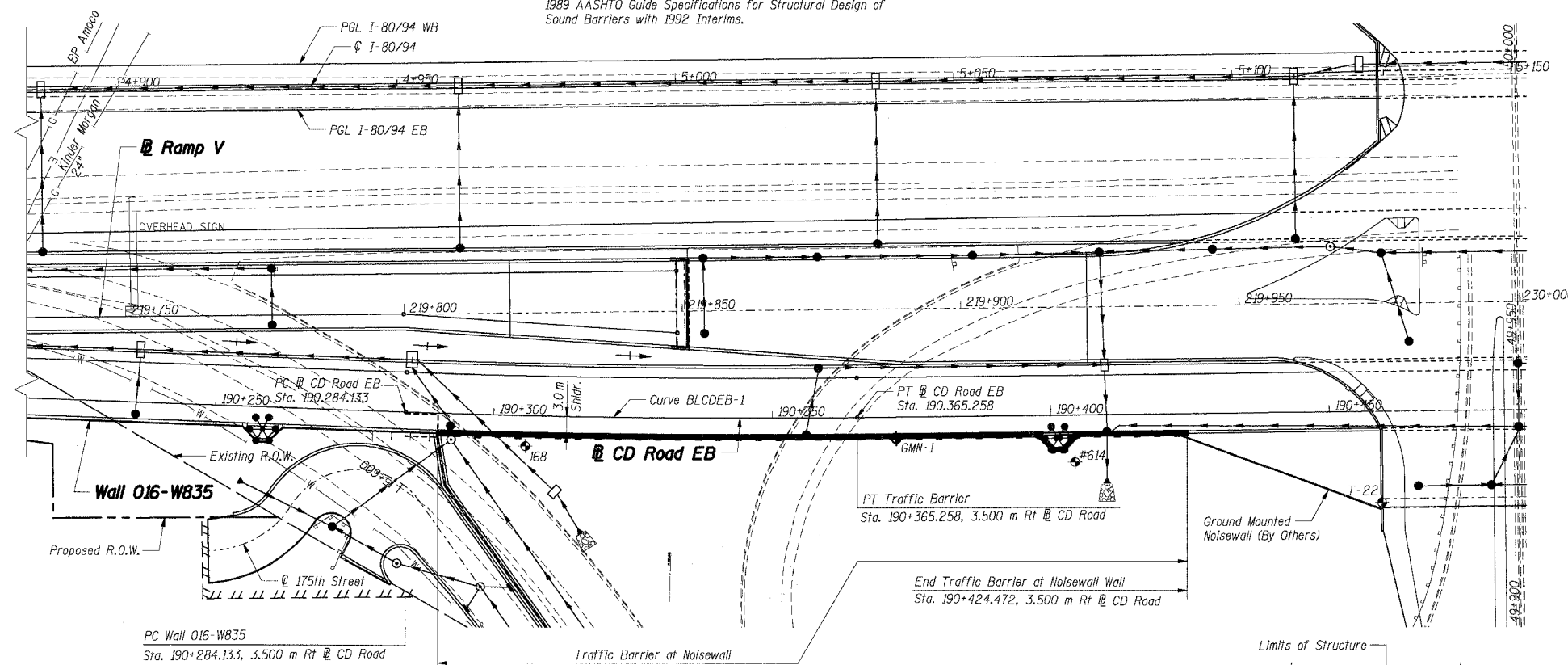
Concrete, $f'_c = 24 \text{ MPa}$
Reinforcement, $f_y = 400 \text{ MPa}$

DESIGN LOADINGS:

Wind Load on Noise Abatement Wall: 1.7 kPa
Design height of Noise Abatement Wall: 4.71 m

EXISTING STRUCTURE:

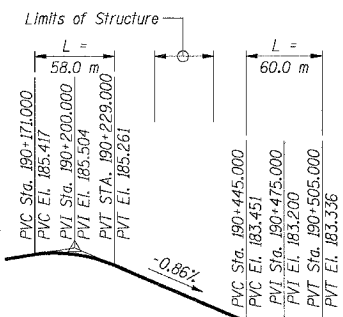
None



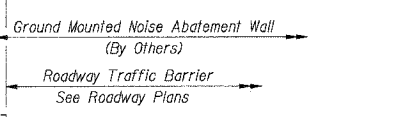
PLAN

PROP. CURVE BLCDEB-1

PI STA = 190+324.703
 $\Delta = 2^\circ 39' 22''$ (LT)
R = 1,750.000 m
T = 40.570 m
L = 81.125 m
E = 0.470 m
e = 3.1 %
P.C. STA = 190+284.133
P.T. STA = 190+365.258



PGL CD ROAD EB



ELEVATION

LEGEND:

- #5 Soil Boring
- High Mast Light Tower (See Lighting Plans)
- Existing Storm Sewer
- Proposed Storm Sewer
- Proposed Catch Basin
- Drainage Structure
- Rip Rap
- Proposed Retaining Wall
- Proposed Pavement
- G- Exist. Gas Main (to remain)
- W- Water Main (to be relocated)
- E- Electric (to be relocated)
- T- Telephone (to be relocated)
- CTV- Cable Television

TOTAL BILL OF MATERIAL

Item	Unit	Total
Concrete Structures	Cu m	129.0
Reinforcement Bars	kg	9,430
Reinforcement Bars, Epoxy Coated	kg	15,420
Protective Coat *	Sq m	213
Furnishing and Erecting Structural Steel	kg	1,225
Drilled Shaft in Soil 915 mm	m	23.0
Drilled Shaft in Soil 760 mm	m	116.0

* To be applied to top and inside face of traffic barrier.

GENERAL NOTES

- Traffic Barrier alignment offsets are referenced to Outside Face (O.F.) of Traffic Barrier.
- Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M, Grade 400.
- All dimensions are in millimeters (mm) except as noted.
- Conduits and Junction Boxes are shown in traffic barrier plans for locations and installation purposes only. Refer to Electrical Raceway plans for details, pay items and quantities.

INDEX OF SHEETS

- GENERAL PLAN & ELEVATION
- BARRIER PLAN & ELEVATION - 1
- BARRIER PLAN & ELEVATION - 2
- BARRIER DETAILS SEGMENTS A, B, C, D AND F
- BARRIER DETAILS SEGMENT E
- SECTIONS & DETAILS - 1
- SECTIONS & DETAILS - 2
- DRILLED SHAFT FOUNDATION DETAILS
- BORING LOGS

Notes:

- All dimensions are measured along outside face of traffic barrier.
- Traffic Barrier alignment offsets are referenced to outside face of traffic barrier.
- Noise abatement wall will be furnished and installed by others as part of future mainline construction contract.

THIS SHEET FOR INFORMATION ONLY

SHT. 1 OF 9

REVISIONS	
NAME	DATE
NK	06/09/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
IL ROUTE 83 RECONSTRUCTION
COOK COUNTY

**TRAFFIC BARRIER AT NOISEWALL
GENERAL PLAN & ELEVATION**

SCALE: DATE: 02/20/2004
DRAWN BY: NK
CHECKED BY: VCP

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

7-11-2005, 13:31:42
 T:\DOCUMENT\83750\STRUCT\CONSTR\83752AD\DN
 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100