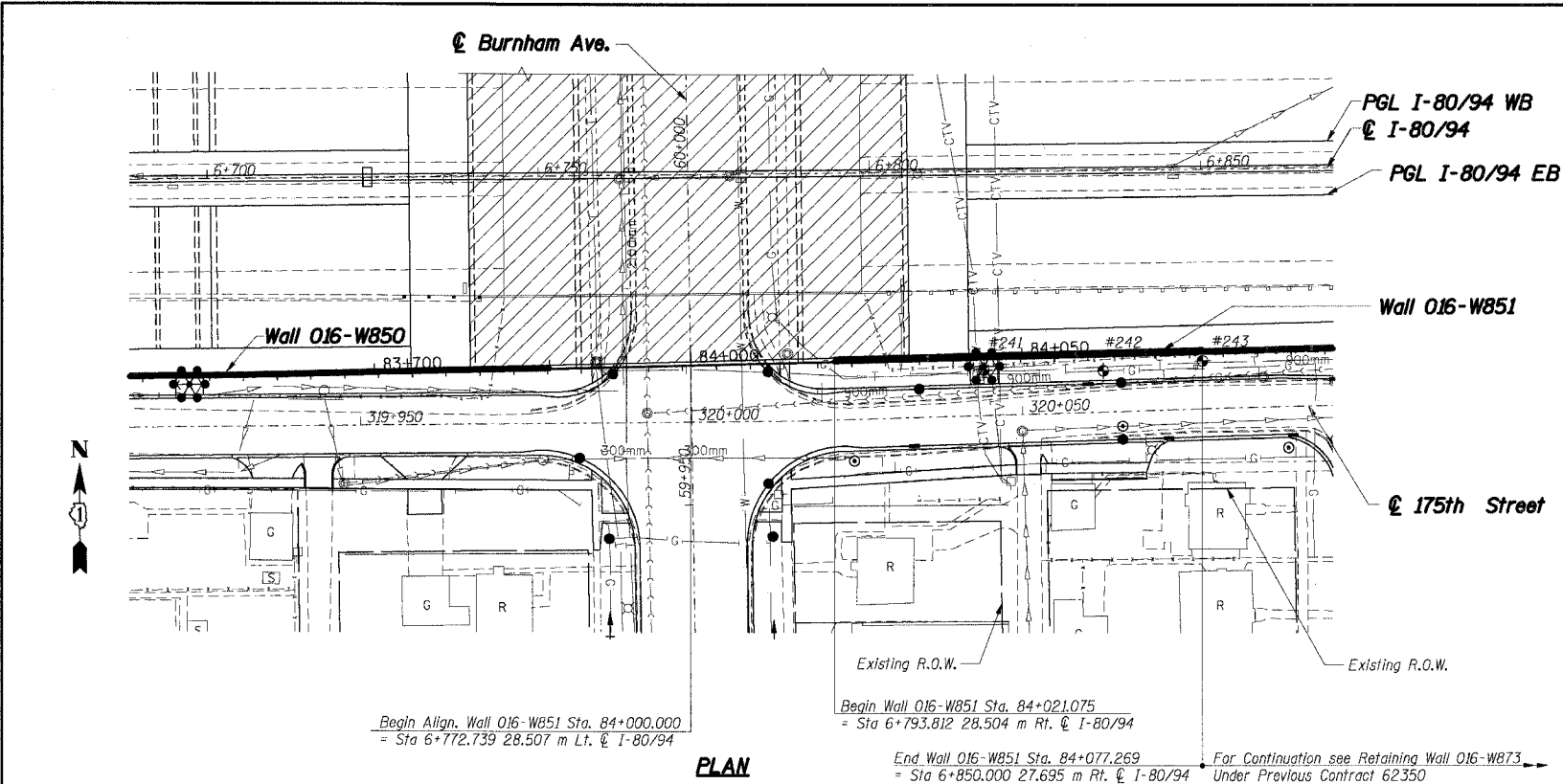


| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 80/94 | | COOK | 631 | 359 |

| STA. | TO STA. |
|------|---------|
| | |

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
• (2425 & 2626) R-2 CONTRACT NO. 62111



LEGEND

- * High Mast Light Tower (By others, Contract No. 62664)
- Existing Storm Sewer
- Proposed Storm Sewer
- Existing Combined Sewer, see Drainage Plans
- #5 Soil Boring
- Proposed Manhole
- Proposed Manhole
- Proposed Catch Basin
- Proposed Inlet
- Proposed Retaining Wall
- Proposed Pavement
- W - Existing Water Main
- T - Existing Telephone
- G - Existing Gas
- CTV - Existing Cable Television
- - - Proposed R.O.W.
- - - Existing R.O.W.
- ▨ Proposed Bridge Structure
S.N. 016-2791

DESIGN SPECIFICATIONS:
1996 AASHTO Standard Specifications for Highway Bridges with 1997 thru 2000 and 2002 Interims.
1989 AASHTO Guide Specifications for Structural Design of Sound Barriers with 1992 Interims.

DESIGN LOADING:
Noise Abatement Wall:
Wind Load: 1.7 kPa
Limits: Sta. 84+032.985 to Sta. 84+077.269
Design Height: 3.36m measured from Top of Retaining Wall

DESIGN STRESSES:
Concrete, f'c: 24 MPa
Reinforcement, fy: 400 MPa

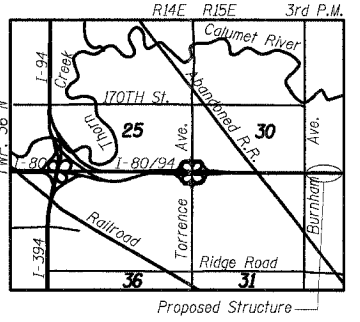
BENCHMARK:
BM "6E" Square cut in northwest corner of the southwest handrail (J-Wall) at the southwest abutment of existing I-80 bridge over Burnham Ave. El. 187.309

EXISTING STRUCTURE:
None

TOTAL BILL OF MATERIAL

| Item | Unit | Total |
|--|-------|--------|
| Structure Excavation | Cu m | 1,011 |
| Test Pile Metal Shells | Each | 1 |
| Furnishing Metal Pile Shells 356mm | meter | 2179.5 |
| Driving and Filling Shells | meter | 2179.5 |
| Concrete Structures | Cu m | 516.0 |
| Reinforcement Bars, Epoxy Coated | kg | 47,490 |
| Protective Coat ** | Sq m | 488 |
| Rustication Finish | Sq m | 365 |
| Geocomposite Wall Drain | Sq m | 290 |
| Pipe Underdrains for Structures 150mm | meter | 56.5 |
| Noise Abatement Wall Anchor Rod Assembly | Each | 13 |

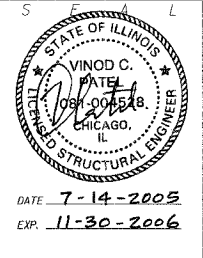
**Note: See Sht. RW851-11 for limits of Protective Coat.



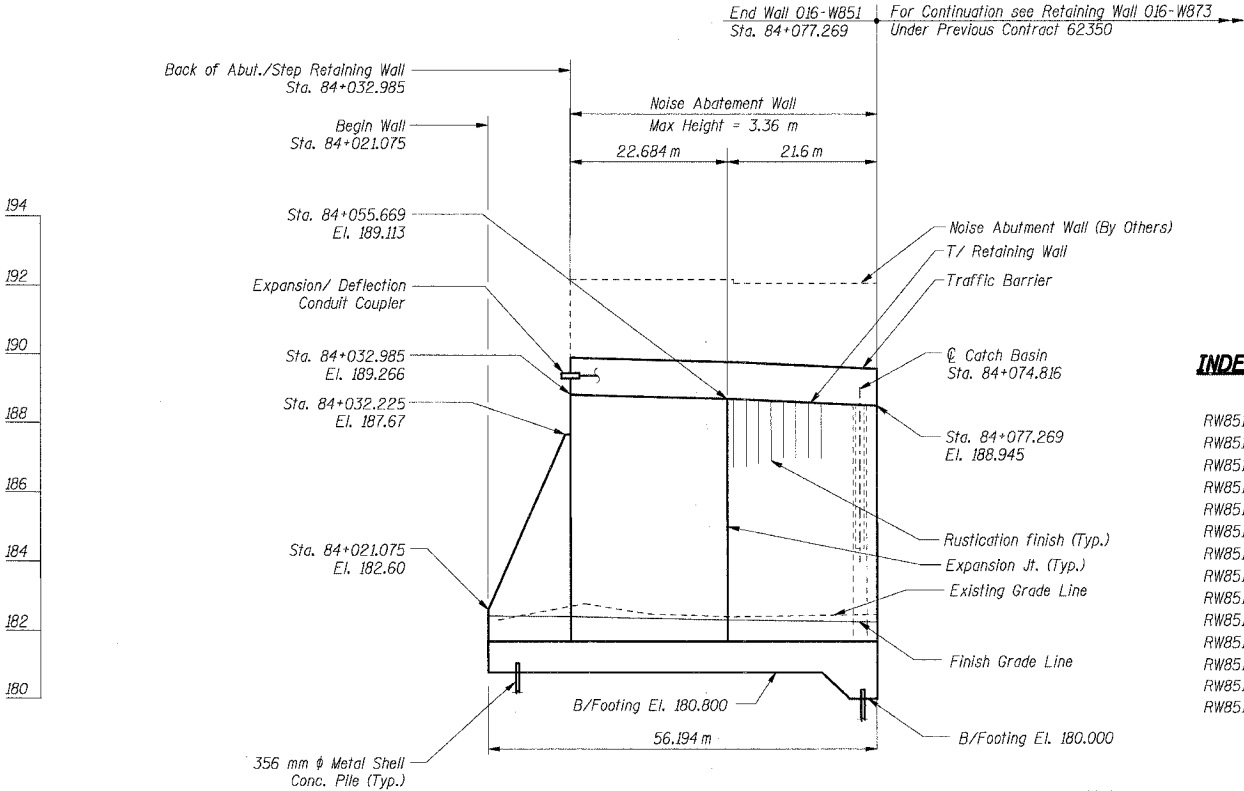
INDEX OF SHEETS

- RW851-1 GENERAL PLAN & ELEVATION INDEX OF SHEETS & TOTAL BILL OF MATERIAL
- RW851-2 TYPICAL WALL SECTION & GENERAL NOTES
- RW851-3 FOOTING PLAN & WALL ELEVATION 1
- RW851-4 FOOTING PLAN & WALL ELEVATION 2
- RW851-5 FOOTING PLAN & WALL ELEVATION 3
- RW851-6 TRAFFIC BARRIER ELEVATION
- RW851-7 WALL SECTIONS & DETAILS I
- RW851-8 WALL SECTIONS & DETAILS II
- RW851-9 WALL SECTIONS & DETAILS III
- RW851-10 TRAFFIC BARRIER SECTIONS & DETAILS
- RW851-11 DRAINAGE DETAILS & WALL REINFORCEMENT DETAILS
- RW851-12 RUSTICATION FINISH & JOINT DETAILS
- RW851-13 PILE DETAILS
- RW851-14 BORING LOGS

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Audemus (TSD)
ENGINEER OF BRIDGES AND STRUCTURES



DATE 7-14-2005
EXP. 11-30-2006



Notes:

1. All dimensions are measured along front face of retaining wall.
2. Wall alignment offsets are referenced to front face of wall.

SHT. RW851-1 OF 14

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
RETAINING WALL - STRUCTURE NO. 016-W851
SECTION (2425 & 2626) R-2
COOK COUNTY

GENERAL PLAN & ELEVATION INDEX OF SHEETS & TOTAL BILL OF MATERIAL

DATE: 7/18/2005
DRAWN BY: LS
CHECKED BY: MJK

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



V:\PROJ\80-94\DRAWING\80-94\RW851-1.dgn
 PLOT DATE: 7/18/05 10:12:11 AM
 PLOT BY: 10357
 PLOT SCALE: 1:1
 PLOT RANGE: 0,0 to 56.194, 180.000 to 194.000
 PLOT SHEETS: 1 of 14
 PLOT SHEET NO.: 1
 PLOT SHEET TITLE: ELEVATION - LOOKING NORTH
 PLOT SHEET SCALE: 1:1
 PLOT SHEET ORIENTATION: Landscape
 PLOT SHEET POSITION: Top Left
 PLOT SHEET STATUS: Plotted
 PLOT SHEET COMMENTS: