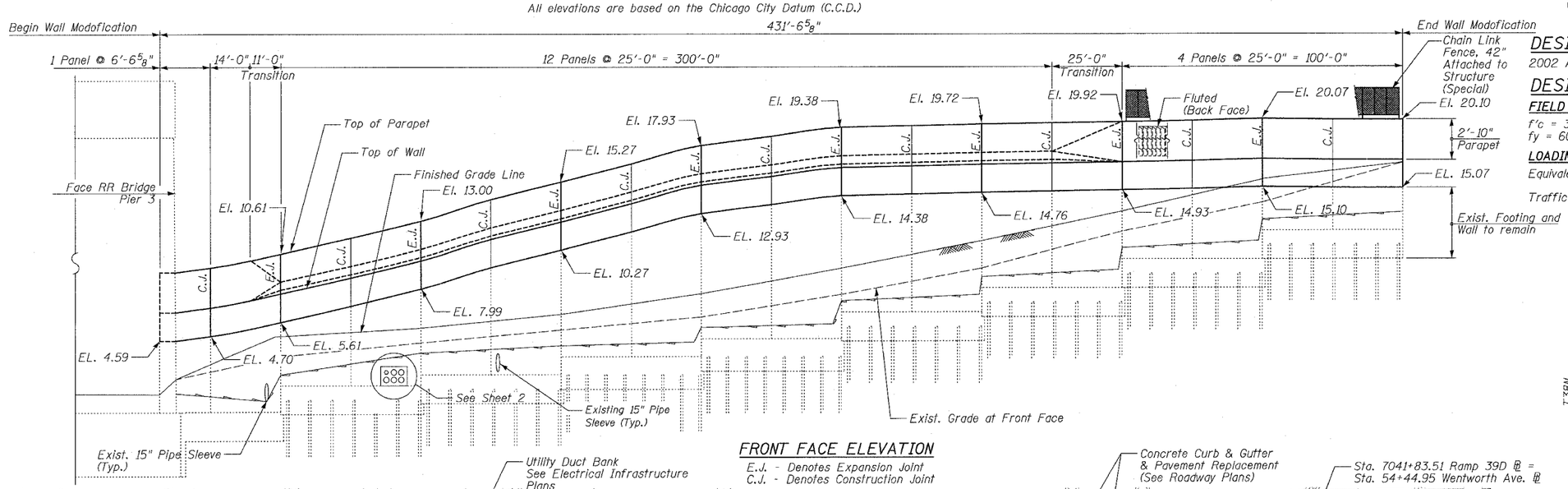
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	445
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62303 *(2021-922 PT2 ETC 2324.6-1PJ R-11

Benchmark: BM No. 3540
"□" Cut on Southwest corner of the traffic control box at the Northeast corner of 39th St. and La Salle St.
El. 12.33

Existing Structure: The existing wall was built in 1961 as part of Section 2122-92 Part II and designated wall "W-4". It consists of a cast-in-place "T" type cantilever wall on a concrete pile supported footing. The existing wall is 432'-0"± long, has a 1/4"/' front face batter and has a chain link fence and three cable guard rail on top.

All elevations are based on the Chicago City Datum (C.C.D.)



FRONT FACE ELEVATION

E.J. - Denotes Expansion Joint
C.J. - Denotes Construction Joint

DESIGN SPECIFICATIONS

2002 AASHTO

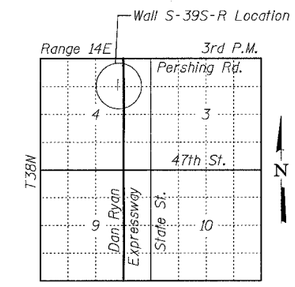
DESIGN STRESSES

FIELD UNITS

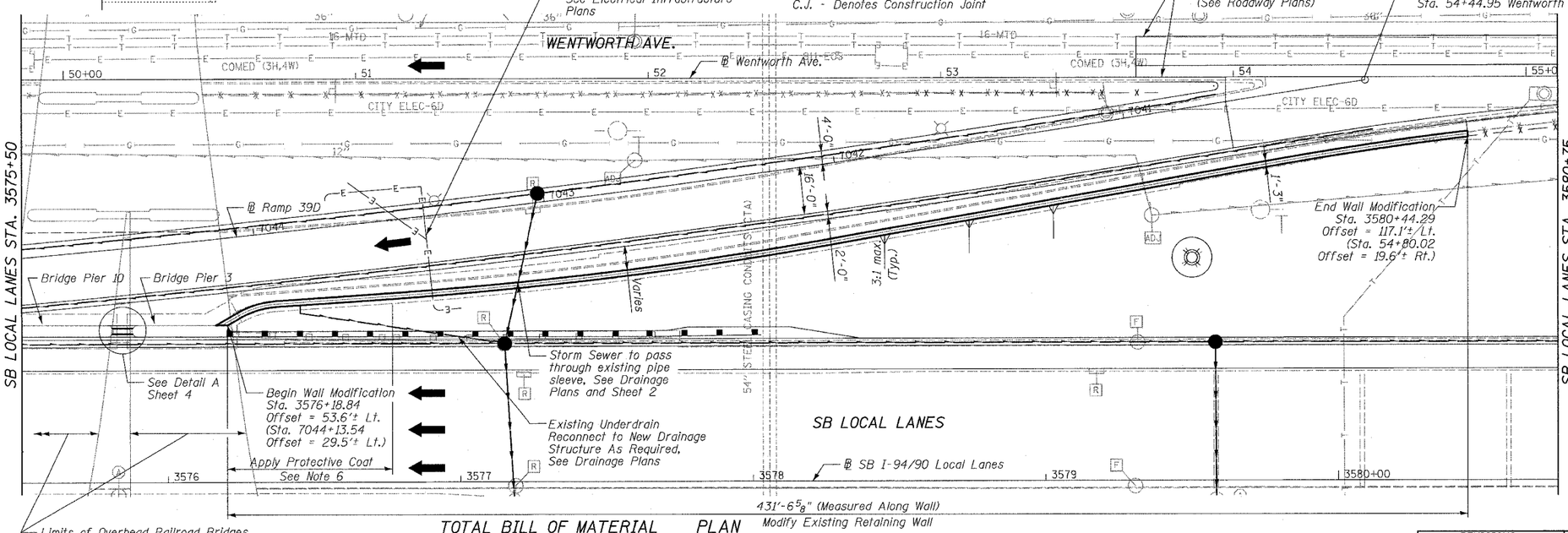
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING

Equivalent Fluid Pressure = 40 pcf (Drained Condition)
Traffic Surcharge = 250 psf



LOCATION SKETCH



PLAN

Modify Existing Retaining Wall

LEGEND

- Soil Boring Location
- Proposed Drainage Structure
- High Mast Lighting Foundation and Tower (See Notes)
- Proposed Underdrain
- Proposed Storm Sewer

NOTES:

1. Offsets given to Front Face of Wall. Station and offsets in parentheses are along Frontage Road or ramp.
2. For HMLT foundations, See Electrical Infrastructure Plans. Towers by others. See Structural Details for HMLT service pads and walls as required.
3. For As-Built Plans of Exist. Wall, See Sheet S7 thru 8A.
4. Take notice of exist. utilities. See Drainage & Utility Plans & Special Provisions for Status of Utilities to be adjusted.
5. See Roadway Plans for all required removals and civil works.
6. Apply Protective Coat to front face of wall within 25' of edge of pavement.

SHEET 1 OF 8

TOTAL BILL OF MATERIAL

WALL S-39S-R

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	70
Concrete Removal	Cu. Yd.	46
Concrete Structures	Cu. Yd.	46.2
Concrete Superstructures	Cu. Yd.	43.7
Rustication Finish	Sq. Ft.	184
Protective Coat	Sq. Yd.	224
Porous Granular Embank (Special)	Cu. Yd.	75

ITEM	UNIT	TOTAL
Reinforcement Bars, Epoxy Coated	Pounds	16,350
Chain Link Fence, 42" Attached to Structure (Special)	Foot	101
Concrete Coring	Foot	8

REVISIONS	
NAME	DATE
REVISED	6/20/06
REVISED	7/11/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-39S-R
GENERAL PLAN AND ELEVATION

SCALE: NTS — DRAWN BY: PAH
DATE: JUNE 9, 2006 — CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

N:\660code\civil\S-RET WALL\660_DSSP\S-39SR.dgn
07/12/2006 12:32:05 PM