Benchmark: B.M. 50: Set box cut on the west face of concrete base for light pole at the southeast corner of 47th Street & Central Ave. Sta. 4+591 17m Rt. El. 181.193.

Existing Structure: Structure Number 016-3241 built in 1964. Sec. 207-1011.1-C.F. Reinforced concrete cantilever retaining wall, supported on timber pile footing, adjacent to east side of Central Avenue, south of south approach structure which carries Central Avenue from grade at 47th Street over the Illinois Central (IC) Railroad, south of Interstate 55. Total length 159.9m.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	PROJ. NO.	SHEET NO.
F.A.I.	0711.2R & 1011.1BR	COOK		

SHEET NO. S-1
S-2 SHEETS

HIGHWAY CLASSIFICATION

Central Ave. (S. of Interchange)
FAP 366
Functional Class: Principal/Arterial
A.D.T.: 32,200 (1996) 35,000 (2020)
D.H.V.: 2,690 (1996) 3,150 (2020)
[illegible] 70 km/hr
[illegible] 55 km/hr

APPROVED

MAR 13 2002

AS A BA[illegible]
PREPARATION OF DETAILED PLANS

DESIGN STRESSES

FIELD UNITS

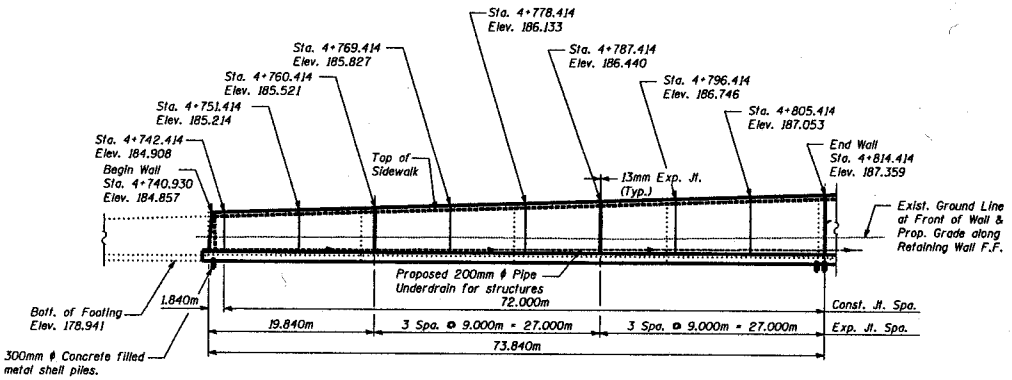
f'c = 24 MPa
fy = 400 MPa (Reinforcement)

DESIGN SPECIFICATION

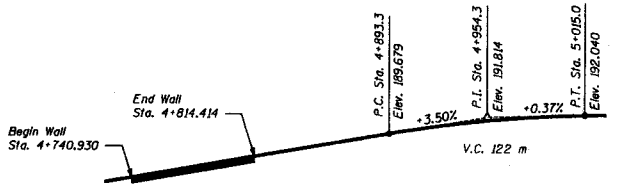
1996 AASHTO Standard Specifications for Highway Bridges with 1997 through 2000 interims

LOADING HS20-44

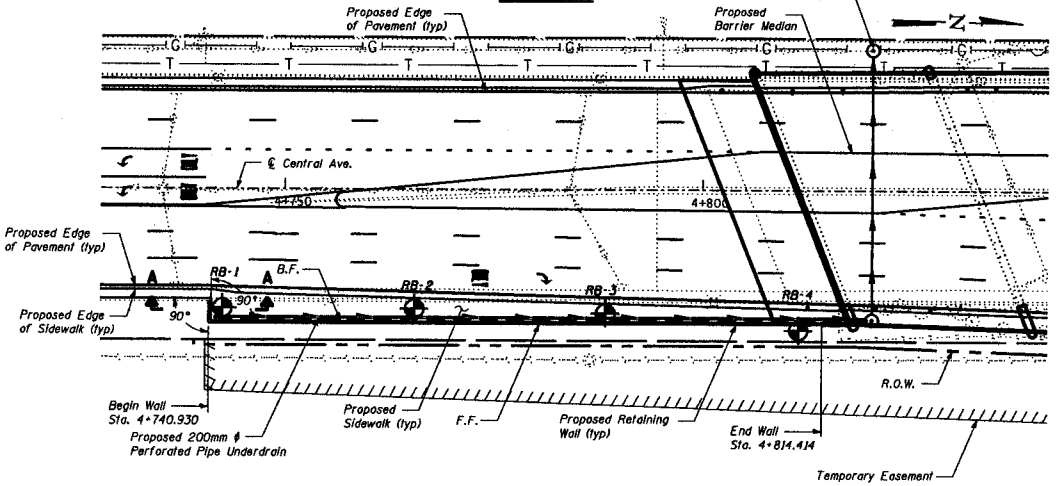
610 mm Live Load Surcharge
Equivalent Lateral Fluid Soil Pressure = 6.3 kN/m³



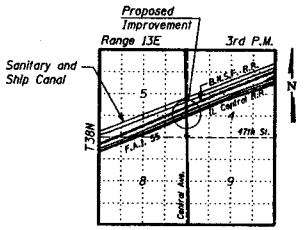
ELEVATION



PROFILE GRADE CENTRAL AVE.



GENERAL PLAN



LOCATION SKETCH

LEGEND

F.F. Indicates Front Face
B.F. Indicates Back Face
Boring Location

NOTES:

All dimensions are in millimeters (mm) except as noted.

DESIGNED	MI. PL
CHECKED	TD
DRAWN	PL
CHECKED	MI. TD
DATE	11-30-01
	Rev.

GENERAL PLAN AND ELEVATION

RETAINING WALL ALONG
CENTRAL AVENUE
FAI RTE 55 SECTION 0711.2R & 1011.1R
COOK COUNTY
STA. 4+740.930 TO 4+814.414
S.N. 016-W821

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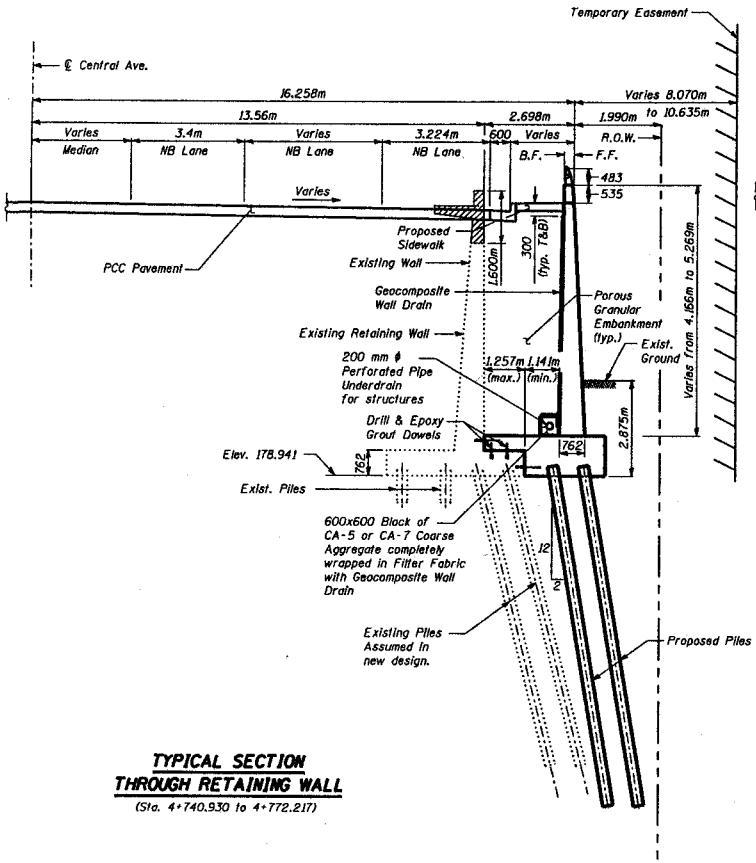
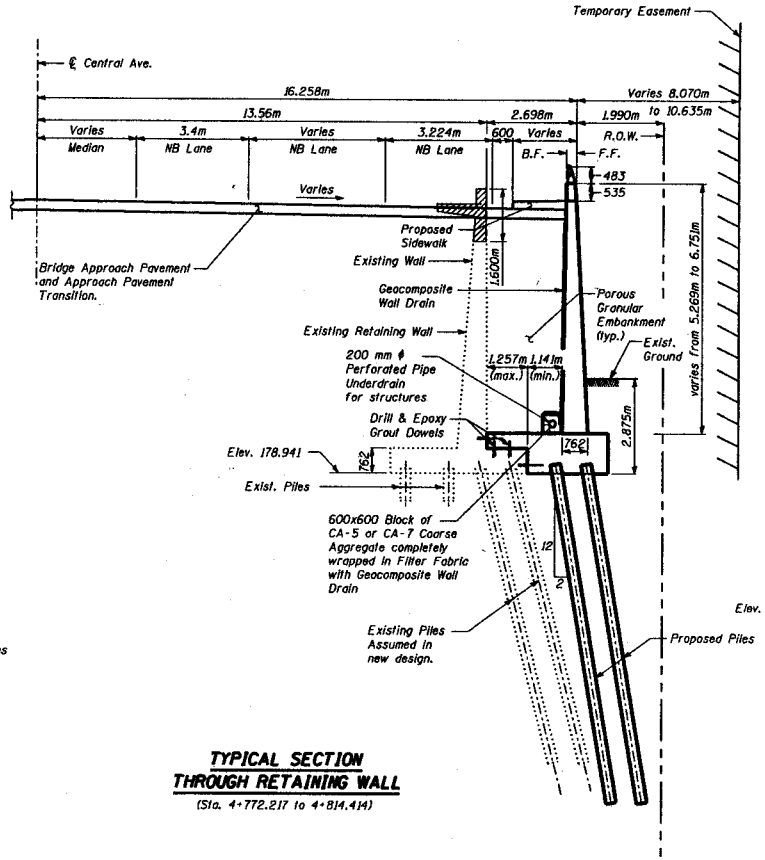
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	0711.2R & 1011.1R	COOK		

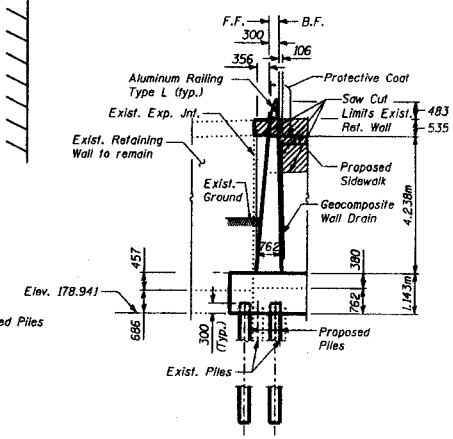
SHEET NO. S-2
S-2 SHEETS



TYPICAL SECTION THROUGH RETAINING WALL
(Sta. 4+740.930 to 4+772.217)



TYPICAL SECTION THROUGH RETAINING WALL
(Sta. 4+772.217 to 4+814.414)



SECTION A-A

DESIGNED	MI
CHECKED	TD
DRAWN	PL
CHECKED	MI, TD
DATE	11-30-01
	Rev.

LEGEND

F.F. - denotes Front Face
B.F. - denotes Back Face
E.F. - denotes Each Face
Concrete Removal

PILE DATA

Pile Type: 300mm ϕ Concrete filled metal shell piles w/ 6.34mm wall
Capacity: 400 kN
Est. Length: 11.0m

WALL CROSS SECTIONS

CRETAINING WALL ALONG
CENTRAL AVENUE
FAI RTE 55 SECTION 0711.2R & 1011.1R
COOK COUNTY
STA. 4+740.930 TO 4+814.414
S.N. 016-W821

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