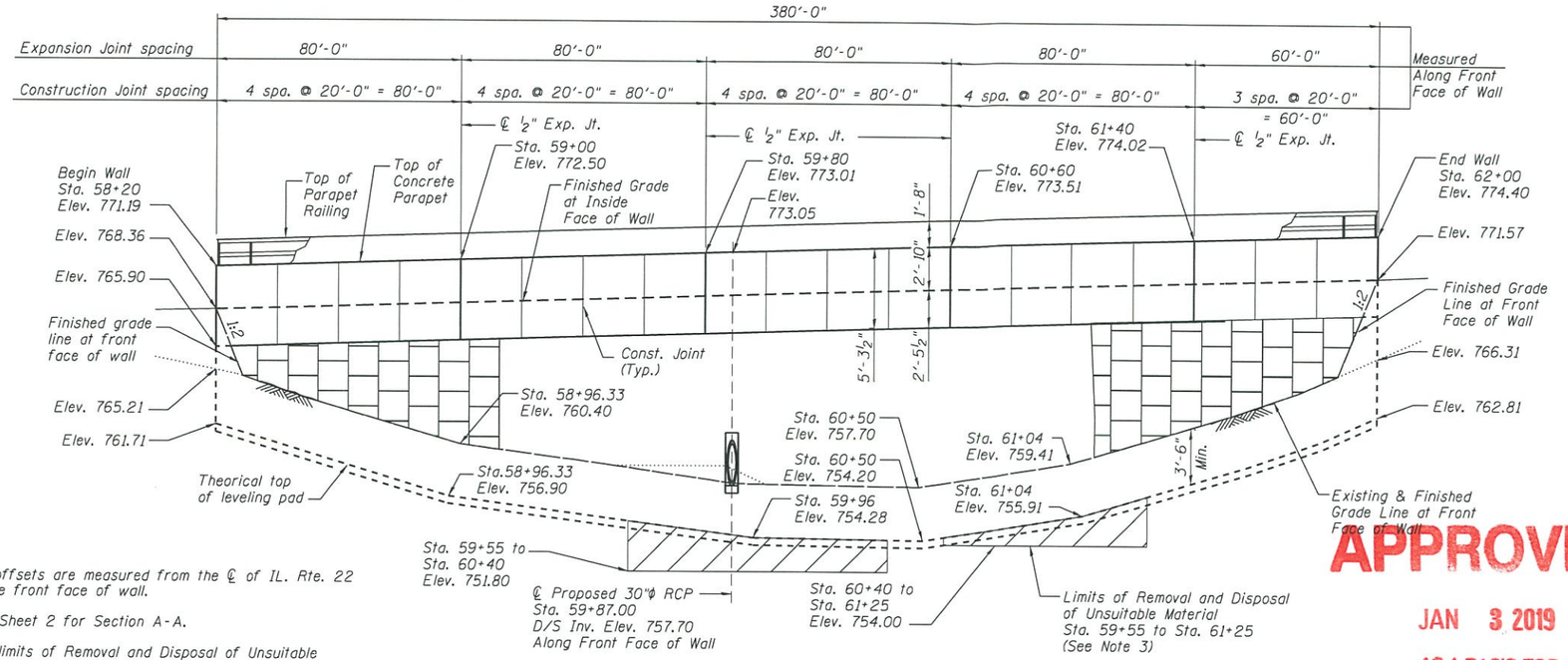
Bench Mark: P.K. Nail at Entrance to Salem Lake Drive (Elev. 771.91)

Existing Structure: None

Traffic to be maintained using staged construction and temporary sheet piling.



ELEVATION

(Looking North at Front Face of Wall)

Notes:

1. Wall offsets are measured from the ℄ of IL. Rte. 22 to the front face of wall.
2. See Sheet 2 for Section A-A.
3. The limits of Removal and Disposal of Unsuitable Material are based on soil boring data and shall be verified in the field. Removal areas shall be backfilled with Rockfill in accordance with Section 1005 of the Standard Specifications.

APPROVED

JAN 3 2019

AS A BASIS FOR PREPARATION OF DETAILED PLANS

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017

DESIGN STRESSES

FIELD UNITS

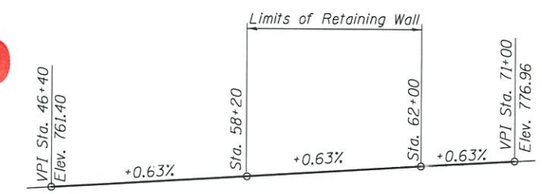
f'c = 3,500 psi (Reinforced Concrete)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panel)

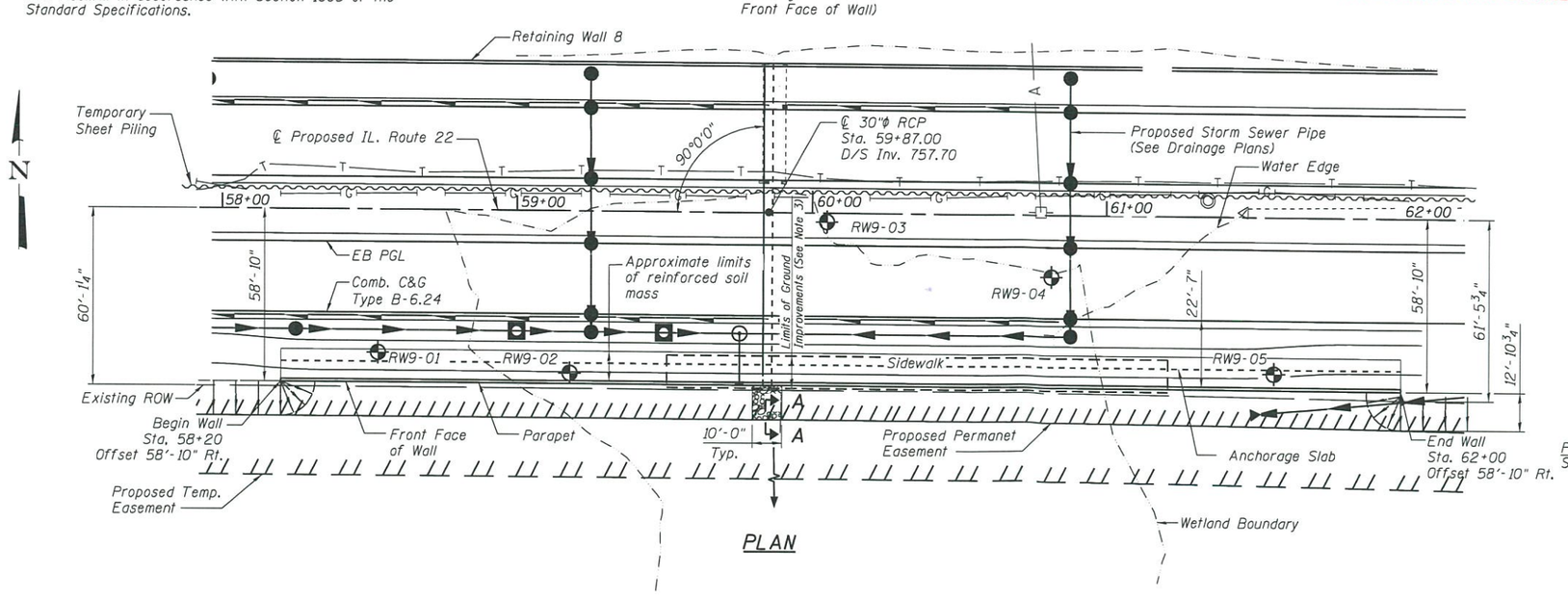
HIGHWAY CLASSIFICATION

F.A.P. Rte. 337 - IL Route 22
Functional Class: Other Principal Arterial
ADT: 14,800 (2015), 35,000 (2040)
ADTT: 1,190 (2015), 2,814 (2040)
DHV: 3,185 (2040)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.
2-Way Traffic
Directional Distribution: 75:50



PROFILE GRADE

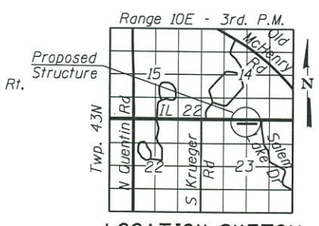
(Along IL 22)



PLAN

LEGEND

- Existing Telephone Line
- Underground Gas Line
- Underground Storm Sewer Line
- Catch Basin
- Existing Manhole
- Inlet
- Exist. Utility Power Pole
- Soil Boring Location



LOCATION SKETCH

GENERAL PLAN & ELEVATION
RETAINING WALL NO. 9
ILLINOIS ROUTE 22
F.A.P. RTE. 337 - SEC 20-Y
LAKE COUNTY
STA. 58+20 TO STA. 62+00
STRUCTURE No. 049-W057

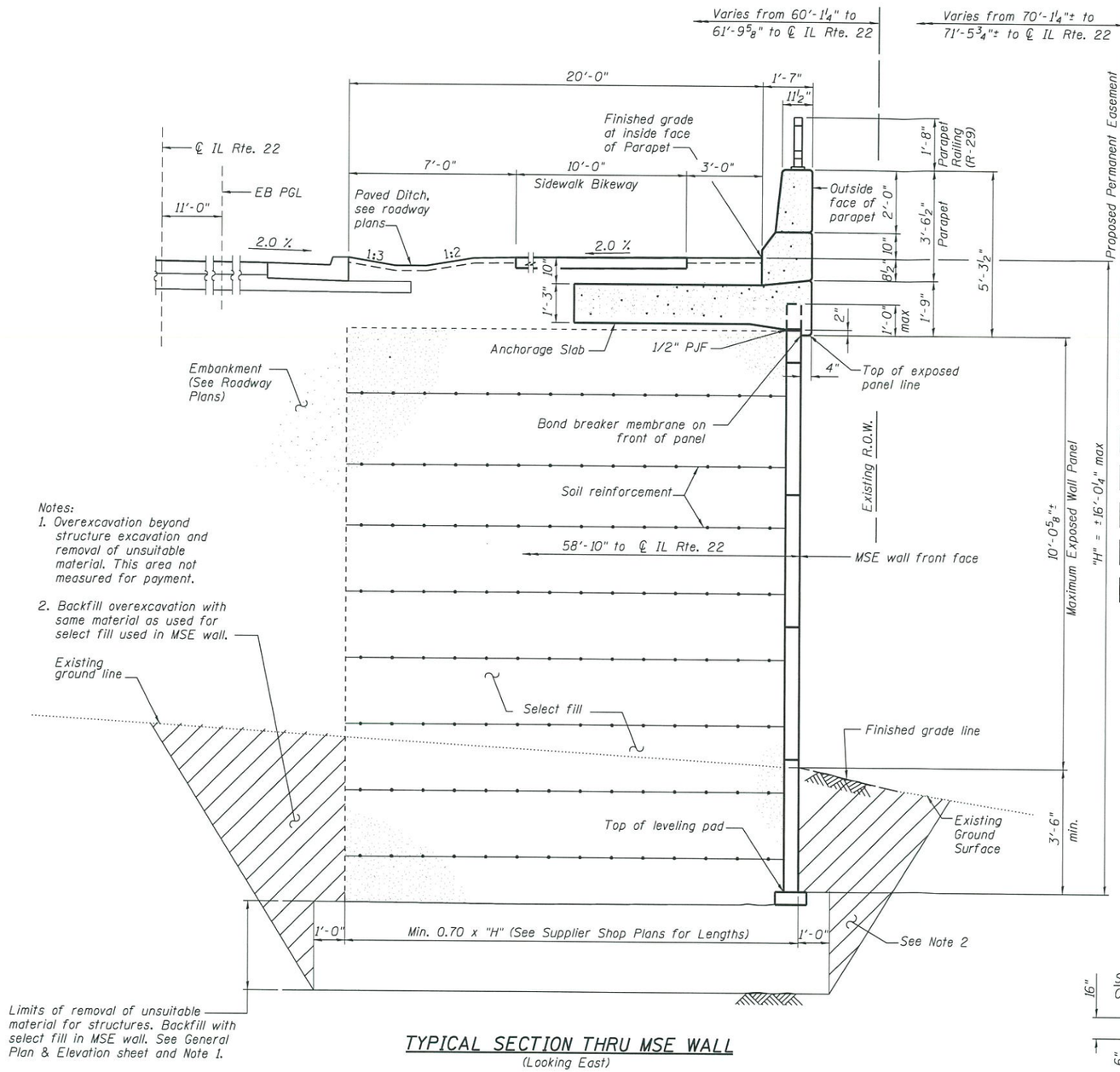
Primera
100 S. WACKER DRIVE SUITE 700 CHICAGO IL 60606 P.312-586-9700 F.312-586-9455

USER NAME =	DESIGNED - MMZ	REVISED	
	CHECKED - MMH	REVISED -	
PLOT SCALE =	DRAWN - MPS	REVISED -	
PLOT DATE = $DATE$	CHECKED - MMH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

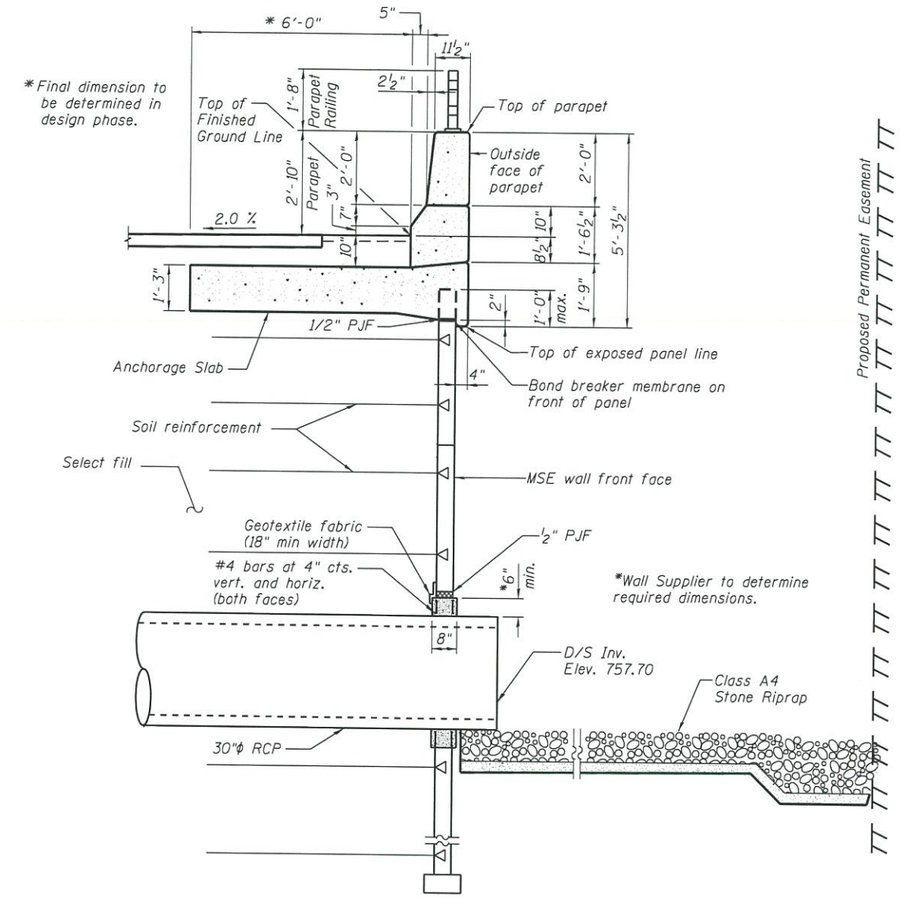
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20-Y	LAKE		
		CONTRACT NO. 60N10		
		ILLINOIS FED. AID PROJECT		



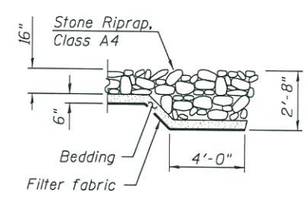
TYPICAL SECTION THRU MSE WALL

(Looking East)



SECTION THRU CULVERT RCP AND ANCHORAGE SLAB PARAPET

The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal bearing pressure of 0.5 kips/ft. of wall.



SECTION A-A

APPROVED

JAN 3 2019

AS A BASIS FOR PREPARATION OF DETAILED PLANS

DETAILS
RETAINING WALL NO. 9
ILLINOIS ROUTE 22
F.A.P. RTE. 337 - SEC 20-Y
LAKE COUNTY
STA. 58+20 TO STA. 62+00
STRUCTURE No. 049-W057

Primera 188 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P.312-580-9110 F.312-580-9143	USER NAME =	DESIGNED - MMZ	REVISED
		CHECKED - MMH	REVISED -
	PLOT SCALE =	DRAWN - MPS	REVISED -
	PLOT DATE = ⊕DATE⊕	CHECKED - MMH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL DETAILS
STRUCTURE NO. 049-W057

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20-Y	LAKE		
		CONTRACT NO. 60N10		
		ILLINOIS FED. AID PROJECT		