Bench Mark: Chiseled "X" on S. flange bolt of F.H. on W. side of Peoria St. First F.H. S. of Van Buren St. Elev. = 594.37

Existing Structure: None.

Traffic Control: Traffic to be maintained on existing SN 016-2449 (NB I-90/94 to WB I-290) during construction.

NOTES:

1. See Sheet 2 for Table 1.
2. Horizontal dimensions and length measured along Front Face of Precast Panels.
3. Stations and offsets are given to Front Face of Precast Panels relative to ℄ Ramp NW.
4. Aggregate columns must be spaced to avoid interference with existing utilities to remain, proposed utilities to be installed, and proposed abutment foundation.
5. See Sheet 3 for East End Elevation.
6. Proposed Siphon reconstruction to occur prior to Ramp NW construction.

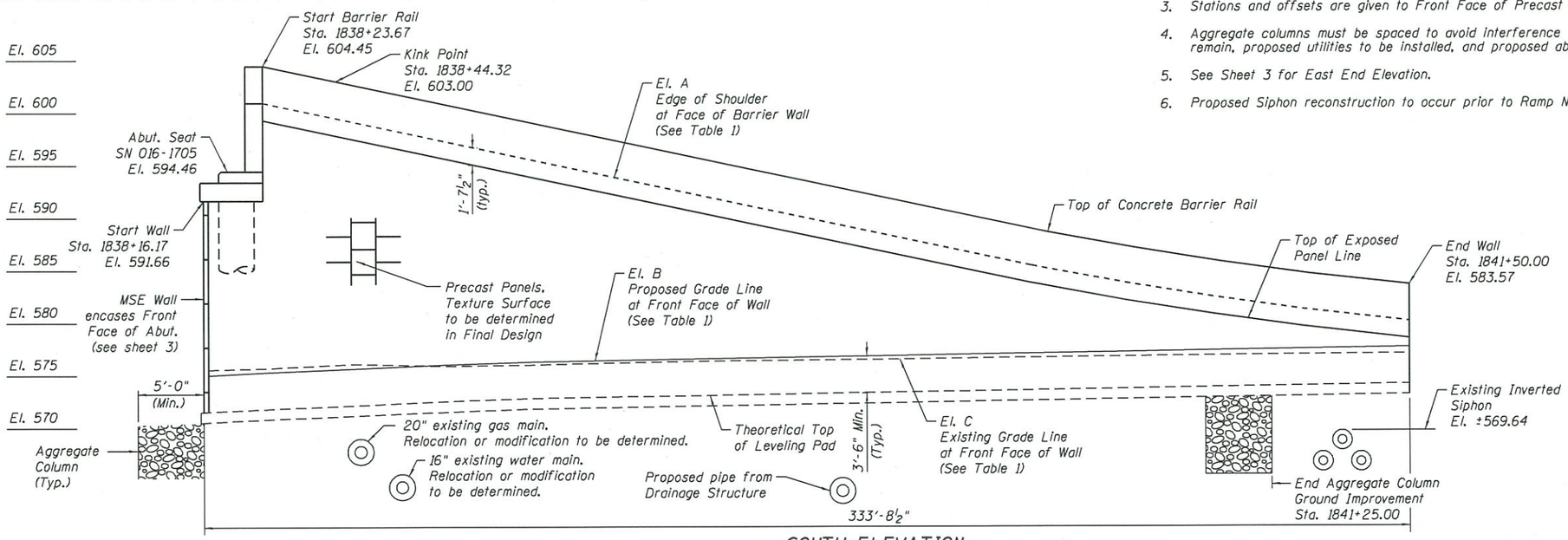
HIGHWAY CLASSIFICATION

Ramp NW
Functional Class: Interstate
ADT: 32,500 (2012); 39,000 (2040)
ADTT: 2,600 (2012); 2,730 (2040)
DHV: 2,790 (2040)
Design Speed: 35 m.p.h.
Posted Speed: 35 m.p.h.
One-Way Traffic
Directional Distribution: NA

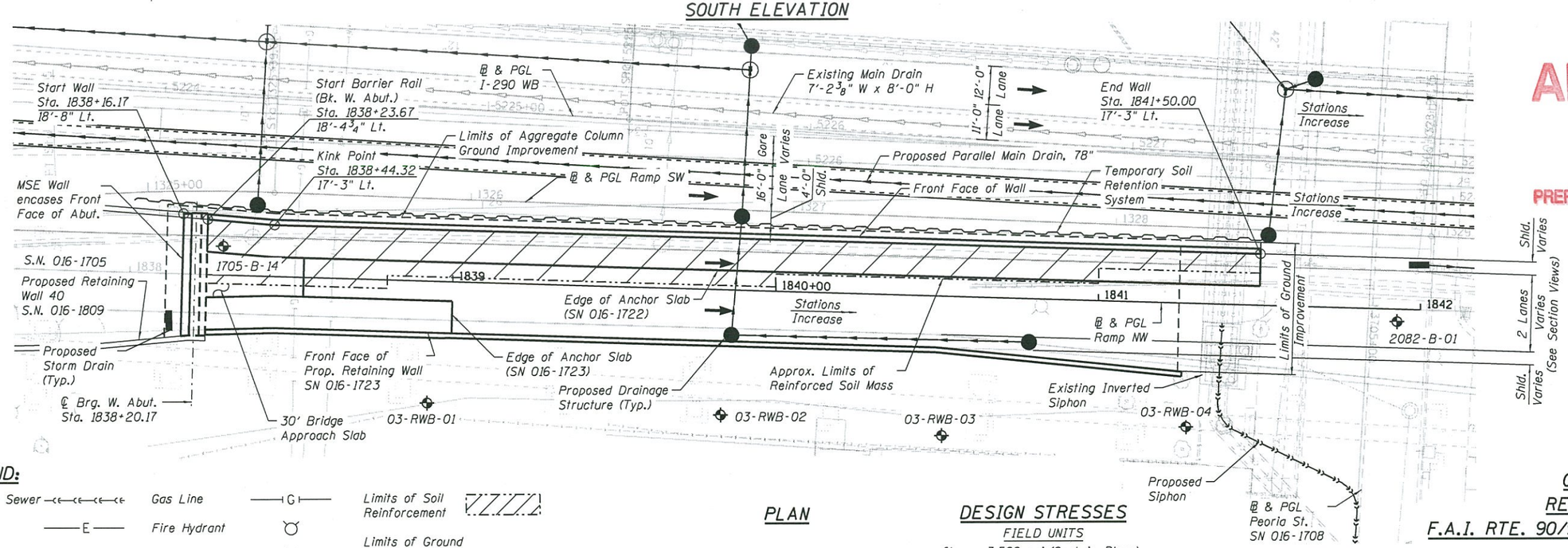
MUN 2090 (Peoria St.)
Functional Class: Local Road
ADT: 750 (2010); 773 (2032)
ADTT: 10% (2032)
DHV: 74 (2040)
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.
Two-Way Traffic
Directional Distribution: 50:50

Ramp SW
Functional Class: Interstate
ADT: 24,500 (2012); 23,000 (2040)
ADTT: 907 (2012); 851 (2040)
DHV: 1,720 (2040)
Design Speed: 35 m.p.h.
Posted Speed: 35 m.p.h.
One-Way Traffic
Directional Distribution: NA

F.A.I. Rte. WB I-290
Functional Class: Interstate
ADT: 29,700 (2012); 31,000 (2040)
ADTT: 461 (2012); 481 (2040)
DHV: 2,130 (2040)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.
One-Way Traffic
Directional Distribution: NA



SOUTH ELEVATION



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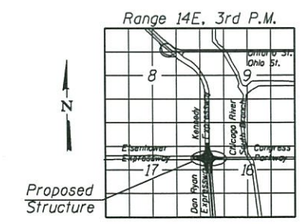


LOCATION SKETCH

LEGEND:

Combined Sewer		Gas Line	—G—	Limits of Soil Reinforcement	
Electric	—E—	Fire Hydrant		Limits of Ground Improvement	
Fiber Optic	—FO—	Light Pole			
Existing Storm Sewer		Soil Boring Location			
Water Line	—W—	Proposed Storm Sewer			

PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition with 2013 Interim Revisions

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Cast-in-Place)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)
fy = 60,000 psi (Reinforcement)

GENERAL PLAN
RETAINING WALL 3
F.A.I. RTE. 90/94/290 - SECTION 2013-010R
COOK COUNTY
STATION 1838+16.17 TO 1841+50.00
STRUCTURE NO. 016-1722

016-1722-CIRCLE100-SHT-ACM-ST-TSL-001

AECOM

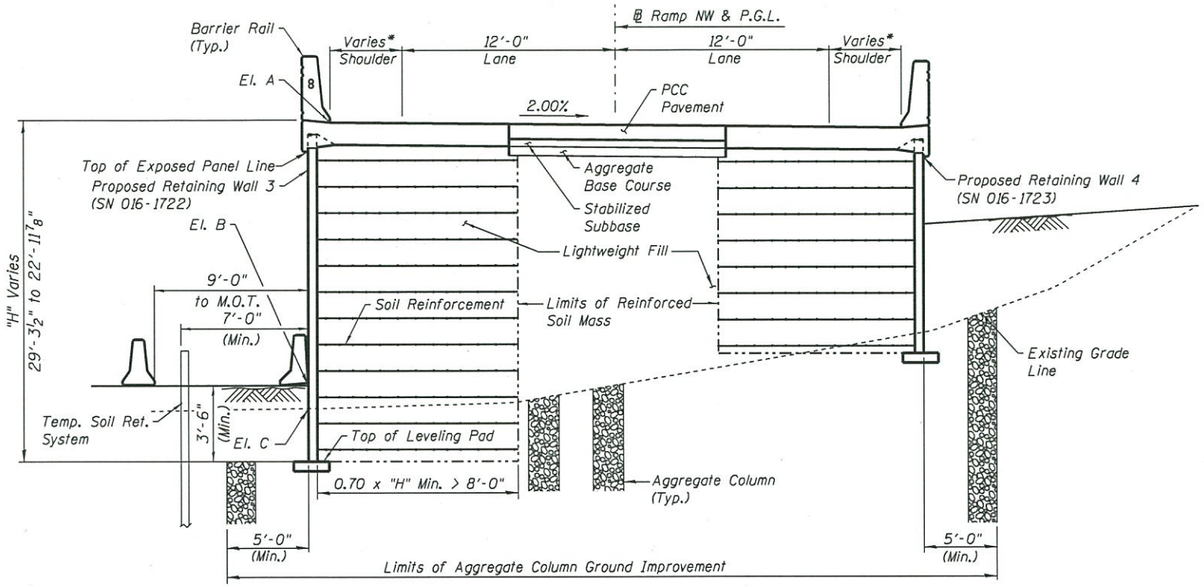
USER NAME = dunkerleyb	DESIGNED - DEV	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - DLC	REVISED	
PLOT DATE = 1/20/2014	CHECKED - EJO	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 016-1722

SHEET NO. 1 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	3	1
		CONTRACT NO. 60W28		
		ILLINOIS FED. AID PROJECT		



TYPICAL SECTION 1

(Sta. 1838+23.67 to Sta. 1838+98.00)
(Facing West)
NTS

* Shoulder widths vary from 5'-1¾" at Sta. 1838+23.67 to 4'-0" at Sta. 1838+44.32

TABLE 1

Station	Offset	Elevation A	Elevation B	Elevation C
1838+23.67	18'-4 3/4" Lt.	600.95	575.28	575.67
1838+25.00	18'-4" Lt.	600.87	575.30	575.68
1838+44.32	17'-3" Lt.	599.50	575.56	575.99
1838+50.00	17'-3" Lt.	599.11	575.63	576.08
1838+75.00	17'-3" Lt.	597.38	575.99	575.88
1839+00.00	17'-3" Lt.	595.64	576.28	575.98
1839+25.00	17'-3" Lt.	593.91	576.42	576.15
1839+50.00	17'-3" Lt.	592.17	576.55	576.33
1839+75.00	17'-3" Lt.	590.43	576.68	576.40
1840+00.00	17'-3" Lt.	588.70	576.82	576.46
1840+25.00	17'-3" Lt.	586.96	576.95	576.58
1840+50.00	17'-3" Lt.	585.24	577.08	576.69
1840+75.00	17'-3" Lt.	583.66	577.21	576.78
1841+00.00	17'-3" Lt.	582.27	577.35	576.87
1841+25.00	17'-3" Lt.	581.07	577.48	576.93
1841+50.00	17'-3" Lt.	580.07	577.61	577.00

Elevation A - Edge of Shoulder at Face of Barrier Wall
Elevation B - Proposed Grade Line at Front Face of Wall
Elevation C - Existing Grade Line at Front Face of Wall

NOTES:

1. Stations and offsets are measured from the Baseline Ramp NW to the Front Face of the respective MSE Wall Panels.
2. MSE Supplier to design load transfer system within reinforced soil mass to accomodate drainage structures and pipes where applicable.
3. Contractor shall coordinate construction of Retaining Wall 3 (SN 016-1722) with Retaining Wall 4 (SN 016-1723), Retaining Wall 40 (SN 016-1809), and abutment of Ramp NW (SN 016-1705).

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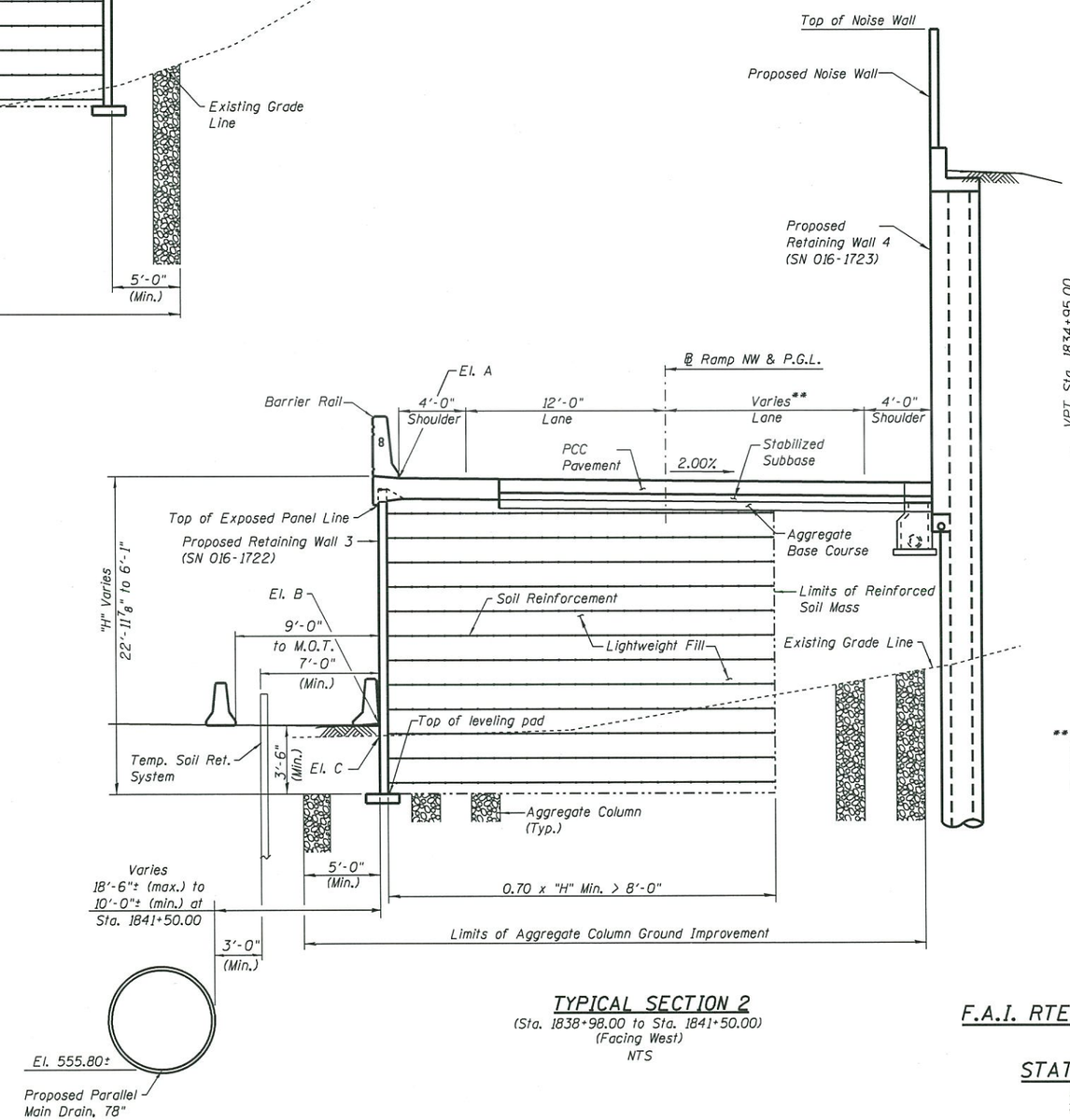
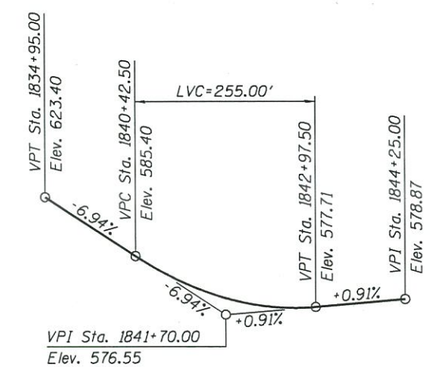


TYPICAL SECTION 2

(Sta. 1838+98.00 to Sta. 1841+50.00)
(Facing West)
NTS



PROFILE GRADE

(along ℄ Ramp NW)

** Lane width is 12'-0" from Sta. 1838+98.00 to Sta. 1840+50.27.
Width Varies 12'-0" to 17'-3¾" from Sta. 1840+50.27 to Sta. 1841+26.31.

SECTION & DETAILS
RETAINING WALL 3
F.A.I. RTE. 90/94/290 - SECTION 2013-010R
COOK COUNTY
STATION 1838+16.17 TO 1841+50.00
STRUCTURE NO. 016-1722

016-1722-CIRCLE100-SHT-ACM-ST-TSL-002

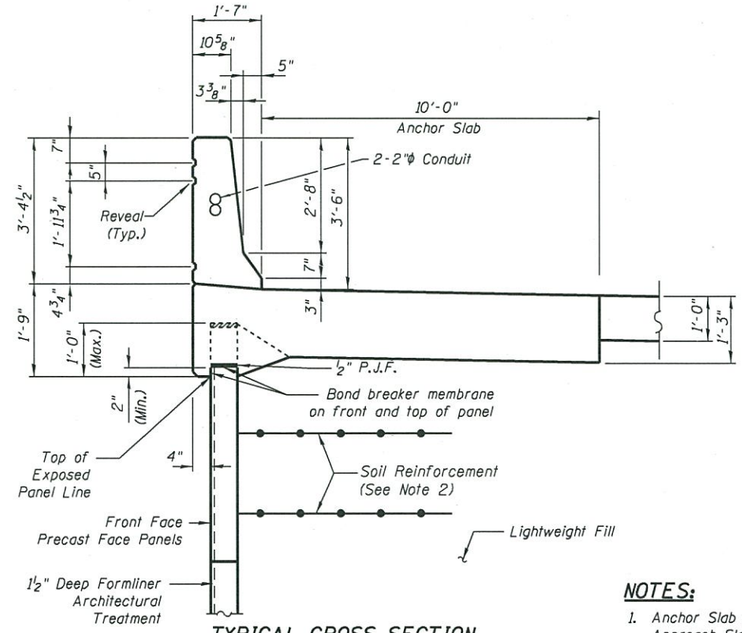
AECOM

USER NAME = dunkerleyb	DESIGNED - DEV	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - DLC	REVISED	
PLOT DATE = 1/20/2014	CHECKED - EJO	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 016-1722
SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	3	2
		CONTRACT NO. 60W28		
		ILLINOIS FED. AID PROJECT		

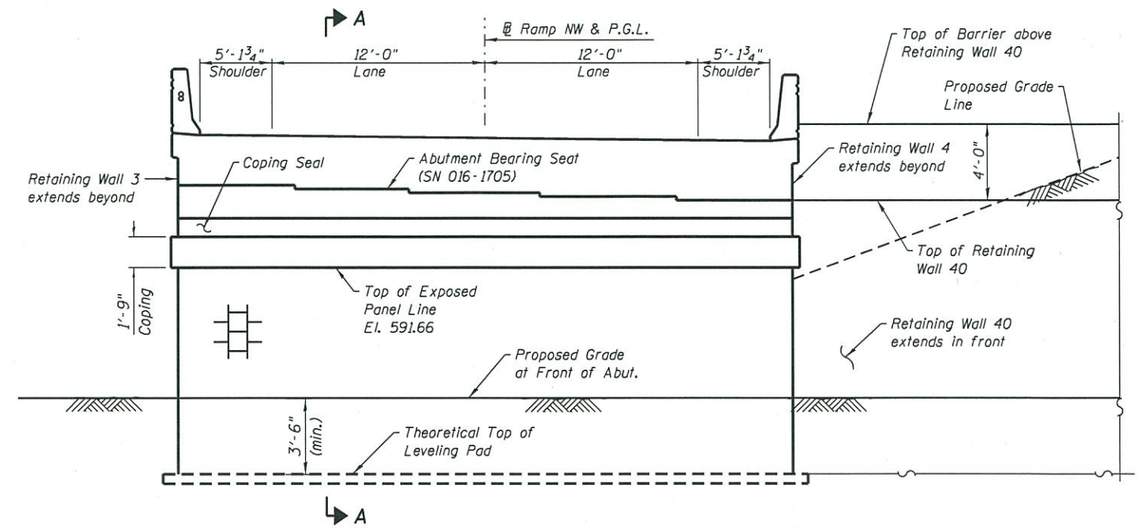


TYPICAL CROSS SECTION

(Facing West)
NTS

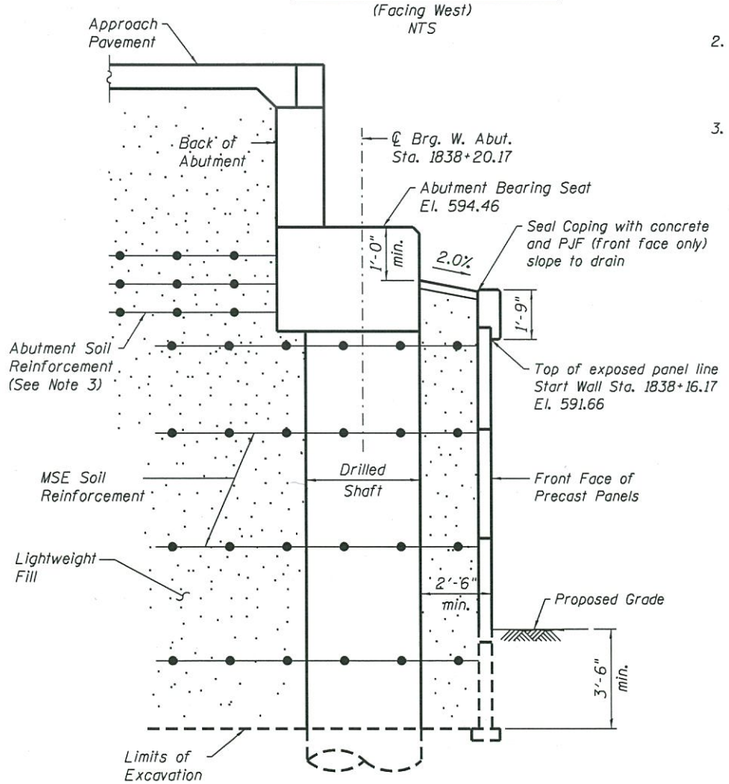
NOTES:

1. Anchor Slab continues to Back of West Abutment. Approach Slab lies in between Retaining Wall 3 and Retaining Wall 4 Anchor Slabs.
2. 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 sliding force of 0.83 kips/ft of wall.
3. Abutment Soil Reinforcement to resist lateral loads in lieu of drilled shafts.



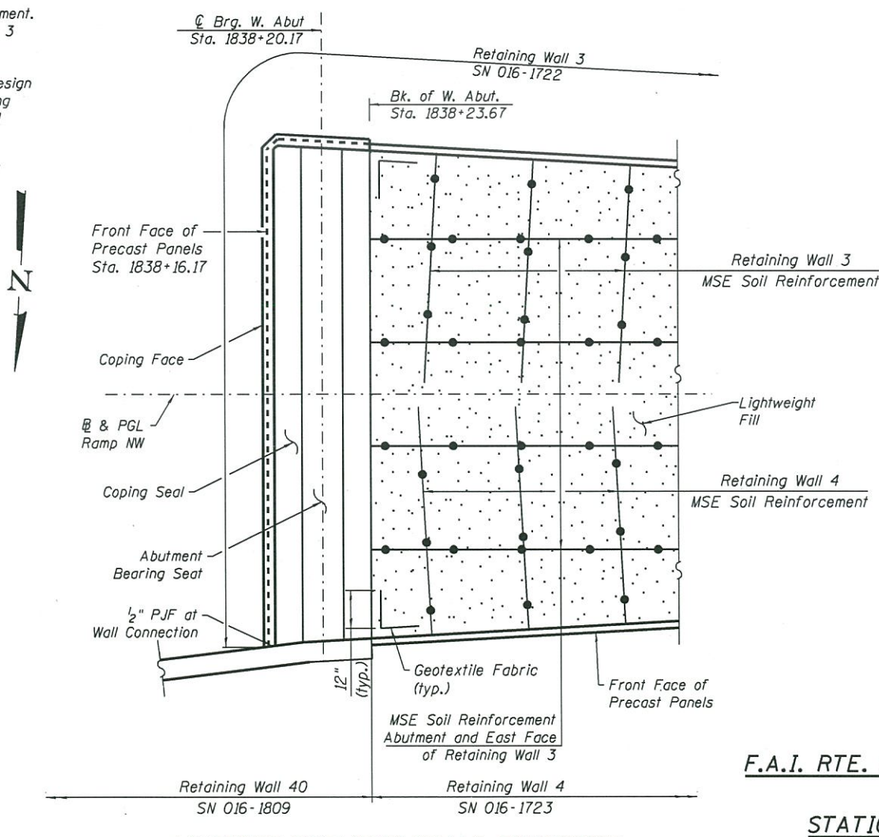
EAST END ELEVATION

(Facing West)



SECTION A-A

(Facing North)
NTS



ABUTMENT-RETAINING WALLS CONNECTION

NTS

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SECTION & DETAILS
RETAINING WALL 3
F.A.I. RTE. 90/94/290 - SECTION 2013-010R
COOK COUNTY
STATION 1838+16.17 TO 1841+50.00
STRUCTURE NO. 016-1722

016-1722-CIRCLE100-SHT-ACM-ST-TSL-003

AECOM	USER NAME = dunkerleyb	DESIGNED - DEV	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-1722
		CHECKED - ATB	REVISED		
	PLOT SCALE = N.T.S.	DRAWN - DLC	REVISED		
	PLOT DATE = 1/20/2014	CHECKED - EJO	REVISED		SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	3	3
		CONTRACT NO. 60W28		
	ILLINOIS FED. AID PROJECT			