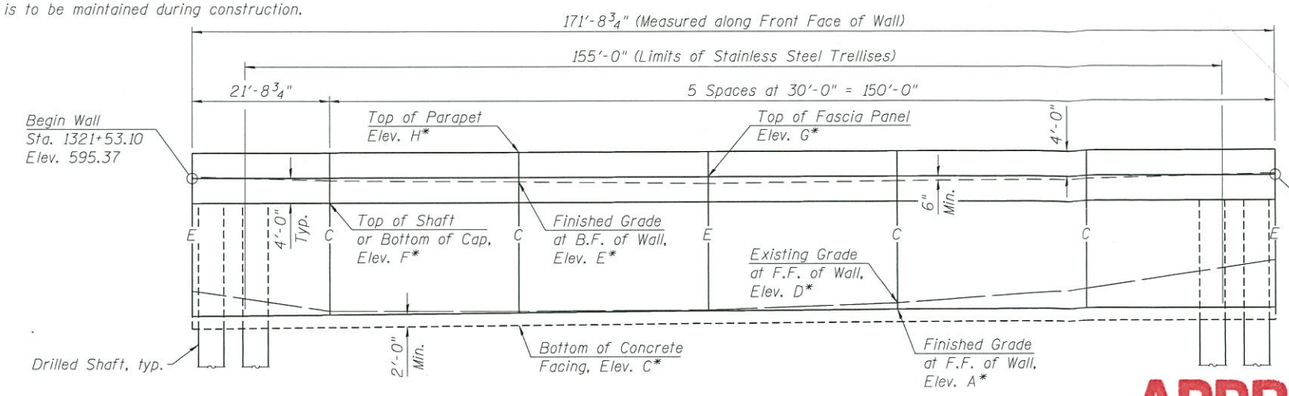
Bench Mark: Cut "X" at SE Corner of Van Buren and Halsted Streets. Elev. 593.24.

Existing Structure: None.

Traffic is to be maintained during construction.



* For elevations, see Table 1 on Sheet 2 of 2.

ELEVATION

(Looking Northwest at F.F. of Wall, Proposed Concrete Barrier not shown for clarity.)

LEGEND:

- Ex. Chain Link Fence — X — X — X —
- Electric ——E——E——
- Ex. Storm Sewer
- Prop. Storm Sewer
- Soil Boring

CURVE DATA

(Ramp SW)

Prop. Curve P-CIR-SW-3
P.I. Sta. = 1322+16.98
Δ = 83° 35' 08" (RT)
D = 10° 03' 07"
R = 570.00'
T = 509.51'
L = 831.54'
E = 194.53'
e = 5.40%
T.R. = NA
S.E. Run = 101'
P.C. Sta. = 1317+07.47
P.T. Sta. = 1325+39.01

HIGHWAY CLASSIFICATION

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

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications 7th Edition with 2015 Interim

DESIGN STRESSES

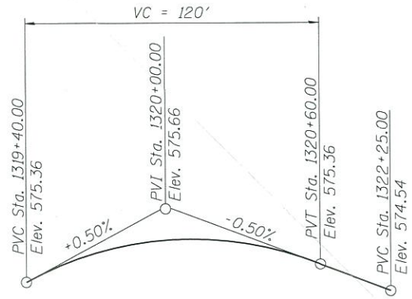
FIELD UNITS

f'c = 7,000 psi (Drilled Shafts)
f'c = 3,500 psi (All other concrete)
fy = 60,000 psi (Reinforcement)

APPROVED

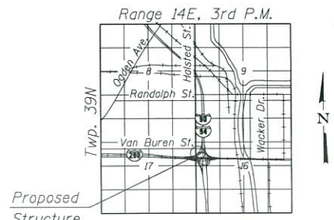
JAN 0 6 2016

AS A BASIS FOR PREPARATION OF DETAILED PLANS

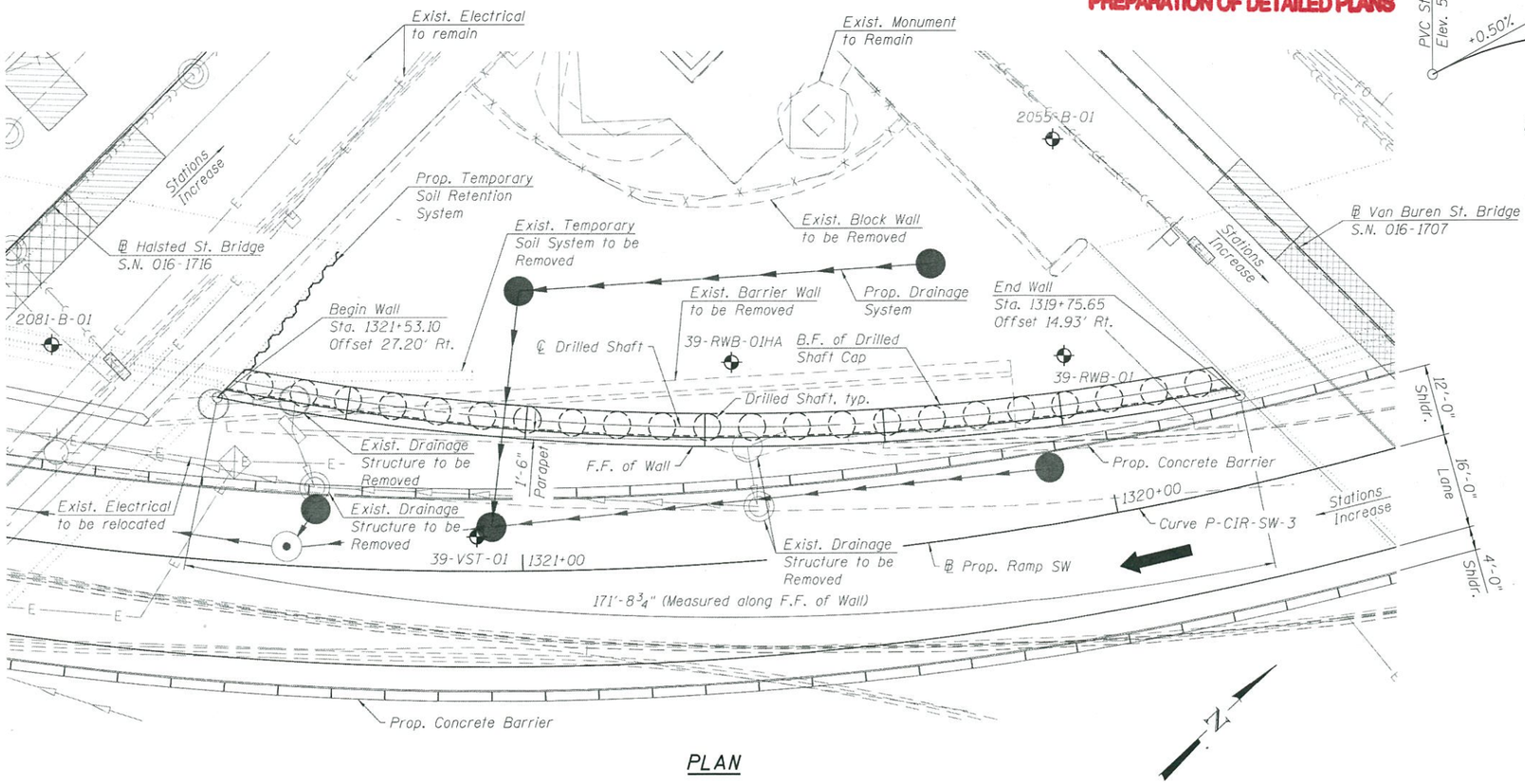


PROFILE GRADE

(Along ℄ Ramp SW)



LOCATION SKETCH



PLAN

Notes:

1.) Wall offsets are measured from the ℄ of F.A.I. Rte. 90/94 (Ramp SW) to the front face of precast panels.
2.) C denotes Construction Joint
3.) E denotes Expansion Joint
4.) F.F. denotes Front Face.
5.) B.F. denotes Back Face.
6.) Wall to be built along straight chords between construction joints.
7.) Shaft diameter, spacing and top elevation to be determined during final design.
8.) Stainless Steel Trellises to be installed on the face of the wall. For limits, see Elevation View. For details, see Typical Cross Section and SS Cable Wall Mount Unit Detail on Sheet 2 of 2.

GENERAL PLAN AND ELEVATION
RETAINING WALL 39 ALONG RAMP SW
F.A.I. RTE. 290 (EISENHOWER EXPRESSWAY)
SECTION xxxx-xxxx
COOK COUNTY
STATION 1319+75.65 TO STATION 1321+53.10
STRUCTURE NO. 016-1808

TranSystems

USER NAME = wjcolletti	DESIGNED - WJC	REVISED -
	CHECKED - DL	REVISED -
PLOT SCALE = 24.00 ' / in.	DRAWN - WJC	REVISED -
PLOT DATE = 12/21/2015	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	xxxx-xxxx	COOK	2	1
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

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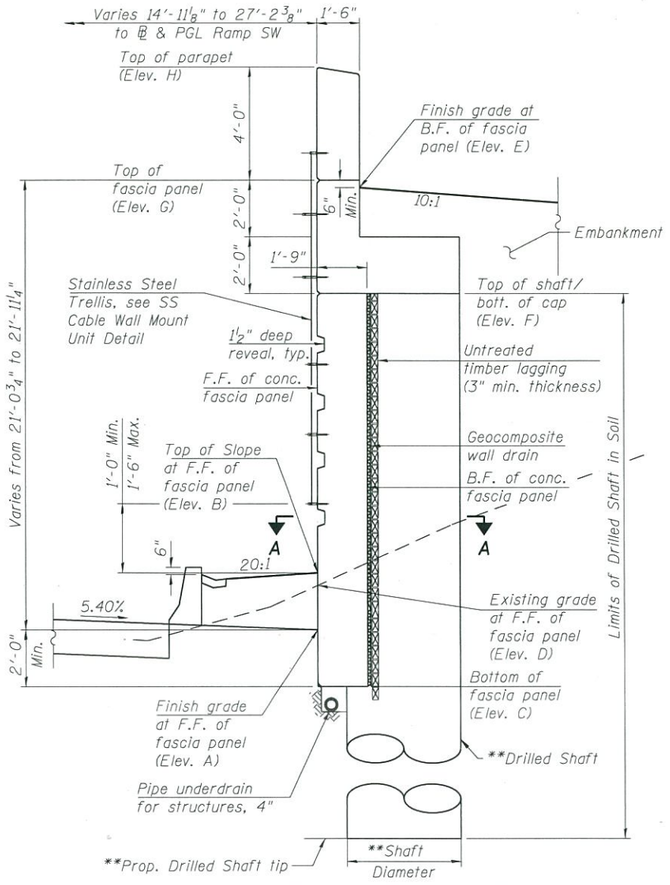
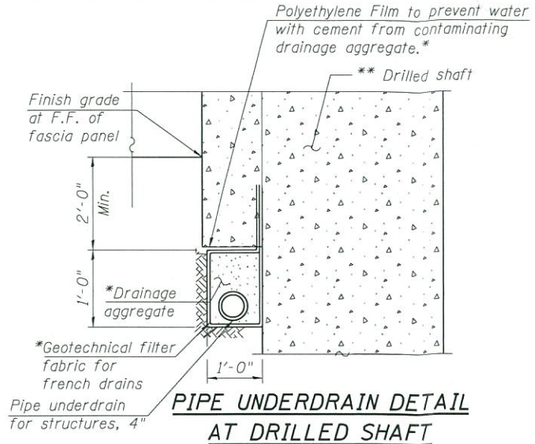
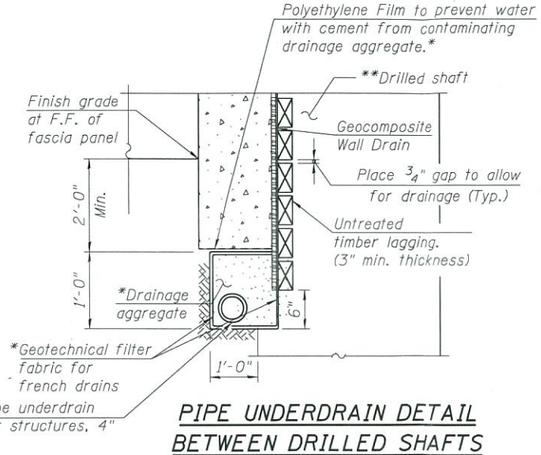


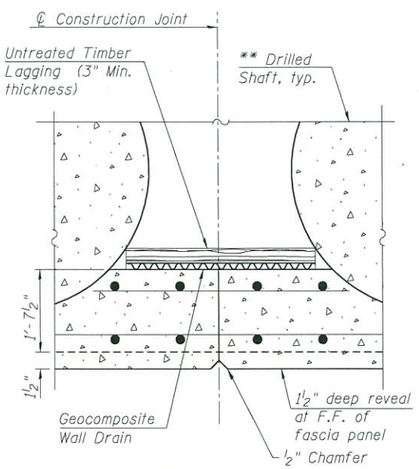
TYPICAL CROSS SECTION
(Looking Upstation)



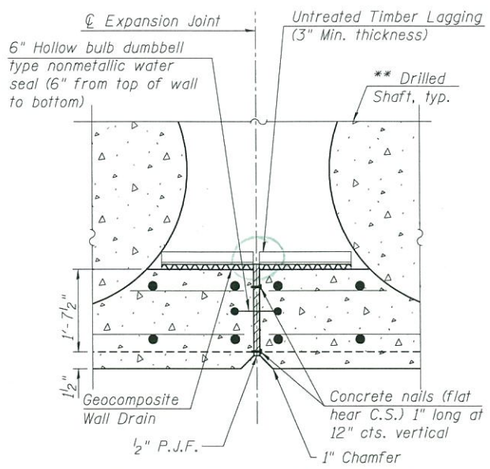
PIPE UNDERDRAIN DETAIL AT DRILLED SHAFT



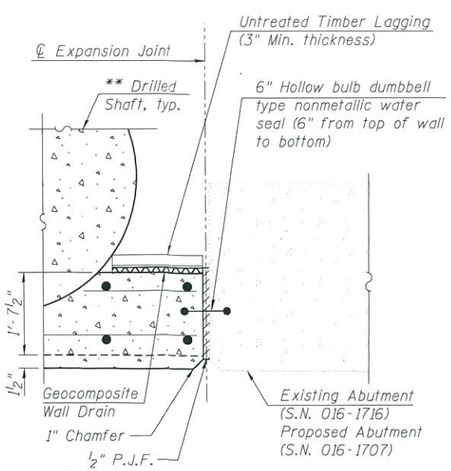
PIPE UNDERDRAIN DETAIL BETWEEN DRILLED SHAFTS



CONSTRUCTION JOINT DETAILS



EXPANSION JOINT DETAILS



EXPANSION JOINT DETAILS

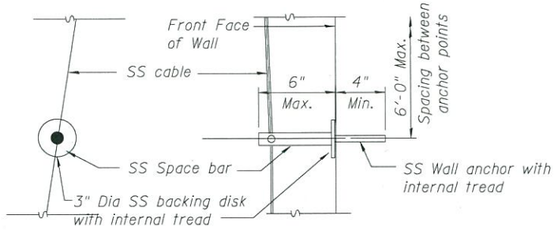
TABLE 1 - WALL ELEVATIONS

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H
1319+75.65	14'-11 1/8"	574.68	577.84	572.68	582.21	596.03	591.78	595.78	599.78
1320+06.46	16'-1 1/8"	574.64	577.67	572.64	577.50	595.20	591.71	595.71	599.71
1320+37.33	17'-8"	574.50	577.70	572.50	575.35	594.91	591.64	595.64	599.64
1320+68.28	19'-8"	574.26	577.66	572.26	574.39	594.51	591.56	595.56	599.56
1320+99.31	22'-1"	573.97	577.63	571.97	574.26	594.80	591.49	595.49	599.49
1321+30.46	24'-10 7/8"	573.67	577.61	571.67	577.60	594.99	591.42	595.42	599.42
1321+53.10	27'-2 3/8"	573.43	577.61	571.43	577.47	595.62	591.37	595.37	599.37

Elevation A- Finish Grade at Front Face of Fascia Panel
Elevation B- Top of Slope at Front Face of Fascia Panel
Elevation C- Bottom of Fascia Panel / Top of Encasement Concrete
Elevation D- Existing Grade at Front Face of Fascia Panel
Elevation E- Finish Grade at Back Face of Fascia Panel
Elevation F- Top of Shaft / Bottom of Cap
Elevation G- Top of Fascia Panel
Elevation H- Top of Parapet

*Cost included with "Pipe Underdrains for Structures, 4".

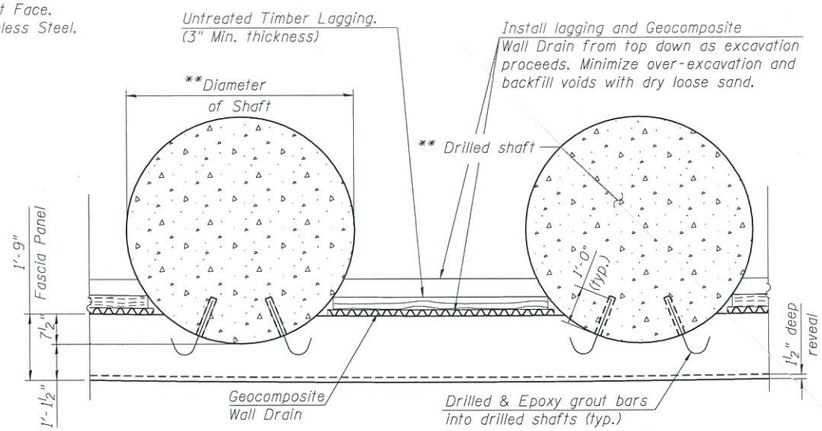
**Drilled shaft diameter, spacing and tip elevation to be determined during final design.



SS CABLE WALL MOUNT UNIT DETAIL

LEGEND:

B.F. - denotes Back Face.
E.F. - denotes Each Face.
F.F. - denotes Front Face.
SS - denotes Stainless Steel.



SECTION A-A
(Shaft Reinforcement not shown for clarity)

Note:
1. Type, size and location of SS Wall Anchor shall be determined in final design.

APPROVED
JAN 0 6 2016
AS A BASIS FOR PREPARATION OF DETAILED PLANS

CROSS SECTION AND DETAILS
RETAINING WALL 39 ALONG RAMP SW
F.A.I. RTE. 290 (EISENHOWER EXPRESSWAY)
SECTION xxxx-xxxx
COOK COUNTY
STATION 1319+75.65 TO STATION 1321+53.10
STRUCTURE NO. 016-1808

USER NAME = wjcalletti	DESIGNED - WJC	REVISED -	
	CHECKED - DL	REVISED -	
PLOT SCALE = Ø.17 ' / in.	DRAWN - WJC	REVISED -	
PLOT DATE = 12/21/2015	CHECKED - DL	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	xxxx-xxxx	COOK	2	2
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

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