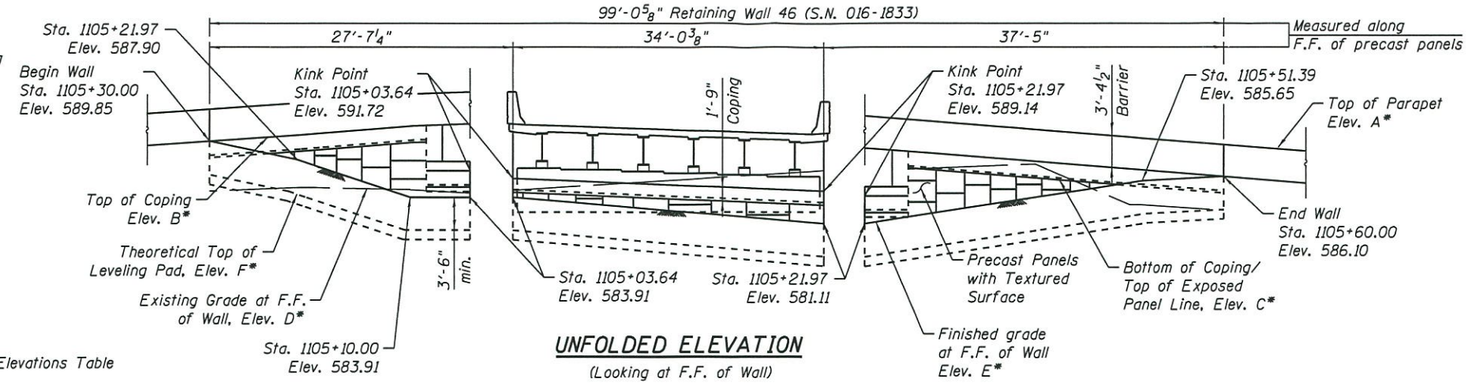
'ench Mark: Square cut at center of door entrance to 707 W. Harrison St; South side of Harrison St. ±90' west of west line of Des Plaines. Elev. 597.47.

'isting Structure: None.

'rffic Control: Exist. Ramp WN & Ramp WS will be closed and traffic will be detoured during construction. Traffic on Ramp EN, I-290 and I-90/94 will be maintained with stage construction.

No Salvage.



* For Elevations, see Elevations Table on Sheet 2 of 2.

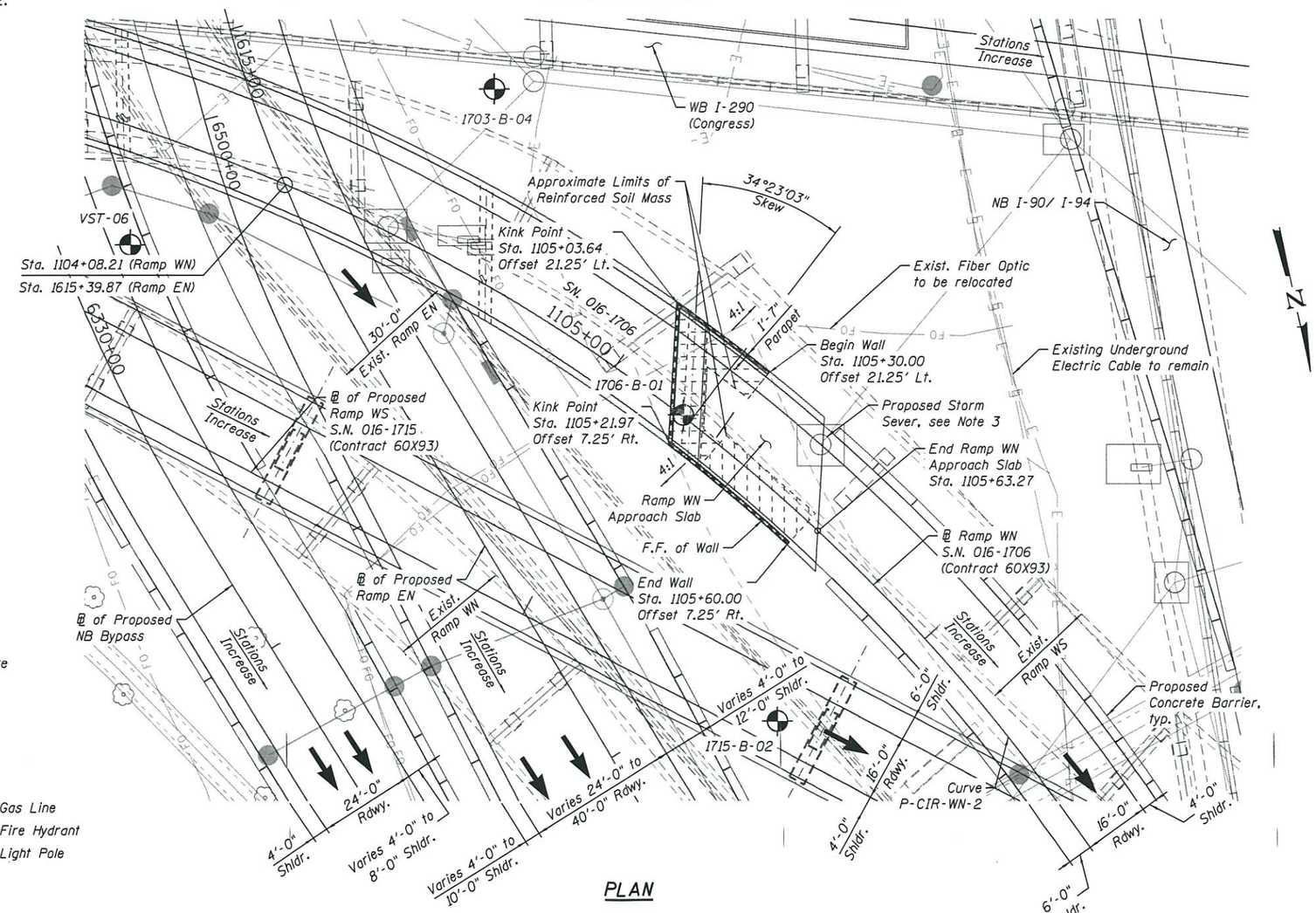
UNFOLDED ELEVATION

(Looking at F.F. of Wall)

APPROVED

NOV 1 2017

AS A BASIS FOR PREPARATION OF DETAILED PLANS



PLAN

NOTES:

1. Stations and offsets are measured along @ Ramp WN to the front face of precast panels.
2. F.F. denotes Front Face.
3. Conceptual proposed drainage information is shown. Proposed drainage will be redesigned to avoid any conflict with the proposed structure during final design.

LEGEND:

- Soil Boring Location
- Storm Sewer
- Electric
- Fiber Optic
- Gas Line
- Fire Hydrant
- Light Pole

HIGHWAY CLASSIFICATION

Ramp WN
Functional Class: Interstate
ADT: 7,200 (2012); 9,000 (2040)
ADTT: 204 (2012); 255 (2040)
DHV: 790 (2040)
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.
One-Way Traffic
Directional Distribution: 100%

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

f'c = 4,500 psi

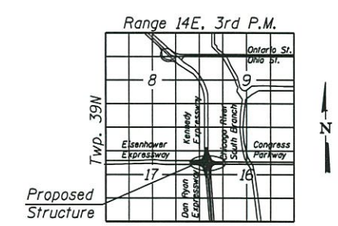
DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interim Revisions

CURVE DATA

(Ramp WN)

PROP. CURVE P-CIR-WN-2
P.I. Sta. = 1105+88.67
Δ = 69° 00' 44" (Rt.)
D = 12° 43' 57"
R = 450.00'
T = 309.35'
L = 542.02'
E = 96.07'
e = 5.20%
T.R. = NA
S.E. Run = 46'
P.C. Sta. = 1102+79.32
P.T. Sta. = 1108+21.34
DS = 30



LOCATION SKETCH

GENERAL PLAN & ELEVATION
RETAINING WALL 46
ALONG RAMP WN
F.A.I. RTE. 90/94/290
SECTION 2014-013R&B-R
COOK COUNTY
STA. 1105+30.00 TO STA. 1105+60.00
STRUCTURE NO. 016-1833

016-1833-CIRCLE100-SHT-ACM-ST-TSL-001.dgn

AECOM

USER NAME = keserovlcm	DESIGNED - MK	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	
PLOT DATE = 10/13/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

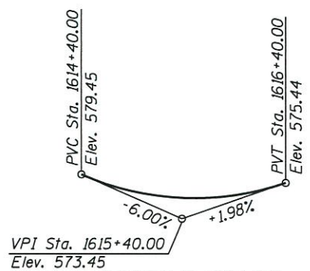
SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	2	1
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

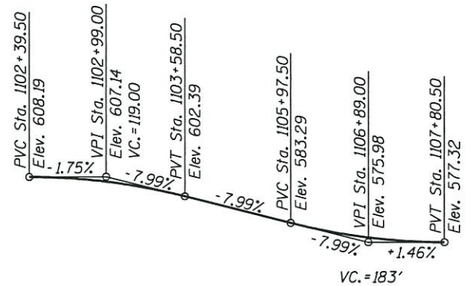
ELEVATIONS TABLE

STATION	OFFSET	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D	ELEVATION E	ELEVATION F
1105+03.64	21'-3" Lt.	595.09	591.72	589.97	584.63	583.91	580.41
1105+10.00	21'-3" Lt.	594.83	591.45	589.70	584.71	583.91	580.41
1105+20.00	21'-3" Lt.	594.03	590.65	588.90	584.92	587.24	583.74
1105+21.97	21'-3" Lt.	593.87	590.49	588.74	584.95	587.90	584.40
1105+30.00	21'-3" Lt.	593.23	589.85	588.10	584.55	590.57	587.07
1105+21.97	7'-3" Rt.	592.52	589.14	587.39	586.71	581.11	577.61
1105+30.00	7'-3" Rt.	591.88	588.50	586.75	587.01	582.35	578.85
1105+40.00	7'-3" Rt.	591.08	587.70	585.95	587.41	583.89	580.39
1105+50.00	7'-3" Rt.	590.28	586.90	585.15	583.12	585.43	581.93
1105+51.39	7'-3" Rt.	590.17	586.79	585.04	583.08	585.65	582.15
1105+60.00	7'-3" Rt.	589.48	586.10	584.35	582.52	586.98	583.48

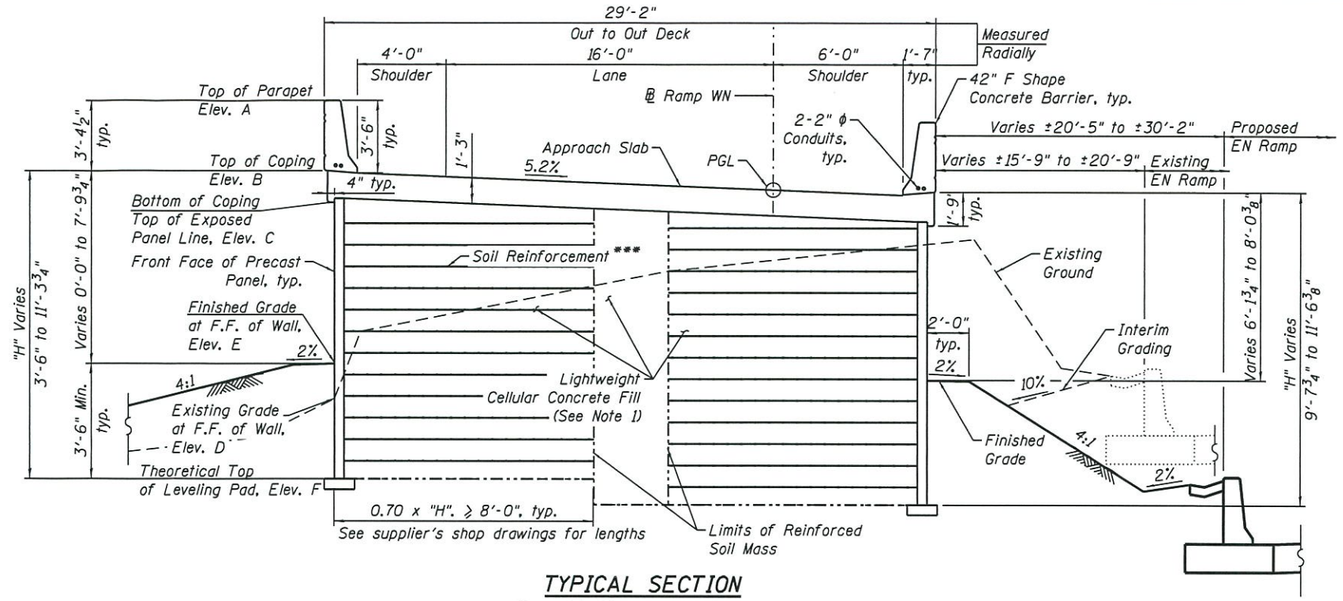
Elevation A: Top of Parapet
Elevation B: Top of Coping
Elevation C: Bottom of Coping / Top of Exposed Panel Line
Elevation D: Existing Grade at F.F. of Wall
Elevation E: Finished Grade at F.F. of Wall
Elevation F: Theoretical Top of Leveling Pad



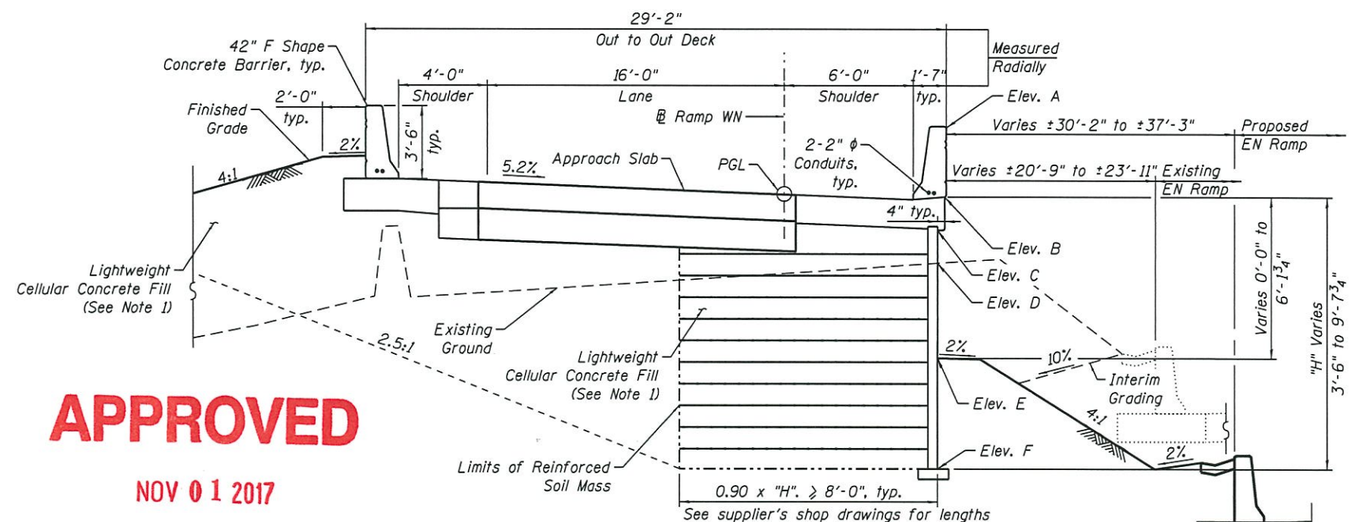
PROFILE GRADE
(Along ℄ Ramp EN)



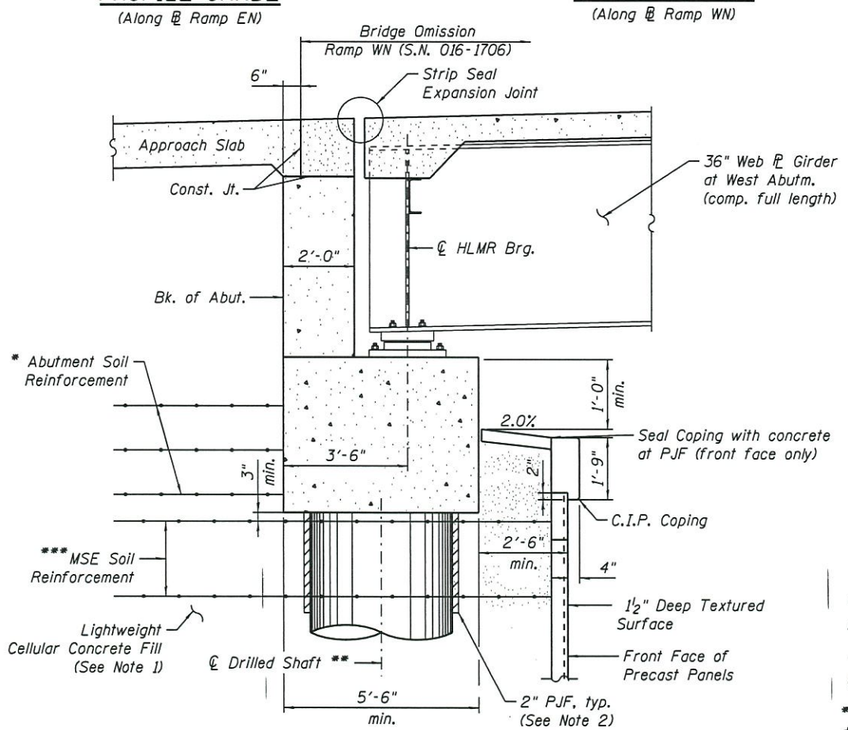
PROFILE GRADE
(Along ℄ Ramp WN)



TYPICAL SECTION
(Sta. 1105+03.64 to Sta. 1105+30.00)



TYPICAL SECTION
(Sta. 1105+30.00 to Sta. 1105+60.00)



SECTION THROUGH ABUTMENT
(Horiz. Dim. @ Rt. L's)

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AS A BASIS FOR PREPARATION OF DETAILED PLANS

* Abutment Soil Reinforcement to resist lateral loads in lieu of drilled shafts.

** Size, spacing and number to be determined in design.

*** The MSE Wall supplier's internal stability design shall account for the approach slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.83 kips/ft of wall.

NOTES:

1. Lightweight Cellular Concrete fill shall be either Class III Lightweight Cellular Concrete Fill or Class IV (District I) Lightweight Cellular Concrete Fill.
2. Install 2" PJF from bottom of abutment to top of leveling pad. Cost is included with Lightweight Cellular Concrete Fill.

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AECOM

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PLOT DATE = 10/13/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	2	2
		CONTRACT NO. 60X93		
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