
Technical Memorandum

To: Amish Bhatt, AECOM Technology Corporation
From: Cornelia L. Marin; Corina T. Farez, Project Manager
Date: September 20, 2018
Subject: EB Taylor Exit Ramp
Project: Jane Byrne Interchange Reconstruction
PTB 163, Item 001, Contract 60X93
EB Taylor Exit Ramp
Wang Project No. 1100-04-01

Wang Engineering, Inc. (Wang) was requested by AECOM to provide geotechnical recommendations for the Construction of the EB Taylor Exit Ramp proposed along the southwest side of the Interchange, south from Harrison Street. The ramp extends to the merge with southbound Taylor Exit Ramp, and is bordered on its west side by retaining wall 10 (SN 016-1729). A *Site Location Plan* is attached (Exhibit 1) Boring locations plan and soil profile are shown in Appendix C.

The portion of the new EB Taylor Exit Ramp covered by this memo extends between Stations 7309+40 and 7319+90. Within these limits, the roadway pavement will be placed over existing roadway and in cut into existing slopes and/or retaining wall where new retaining wall 10 is proposed. When finished, the ramp including one lane and shoulders on both sides will have a total variable width of 23 to 30 feet. The typical pavement section from the cross sections provided by TranSystems Corporation (TranSystems) on January 30, 2018 indicate the proposed roadway pavement section will be about 27 inch thick including 12 inches of improved aggregate subgrade. Slope stability of the walls was addressed in structure geotechnical reports and recommendations for the design and construction of the new roadway.

The exposed subgrade throughout the extent of the exit ramp will be soft clay to silty clay, stiff to very stiff silty clay, and granular and cohesive fill. It should be anticipated that soft clay will fail attempts at proofrolling due to excessive deflection and rutting; therefore, the **proofrolling of this soil is not recommended** and additional subgrade treatment should be provided, as discussed in the following section.

Subgrade Condition

Based on the result of our subsurface investigation and the elevations shown in plans, profiles, and cross sections we expect the subgrade will consist of the soil conditions summarized in Table 1.

Table 1: Subgrade Soil Condition Summary

Subgrade Type	Stations	Width	Subgrade Soil Type and Properties	Recommended Treatment Depth (inches)
A	7309+40 to 7314+25	full width	Very soft to soft clay (Unit 3) Qu=0.1-0.9 tsf ; MC=28-31%	24
B	7314+25 to 7314+75	10 LT to 20 LT*	Underground pipes fill; stiff to very stiff silty clay fill and medium dense gravelly sand fill	none
		10 LT to 4 RT*	Very soft to soft clay (Unit 3) Qu=0.1-0.9 tsf ; MC=28-31%	24
C	7314+75 to 7316+25	full width	Underground pipes fill, existing wall foundation footing, and existing exit ramp pavement structure.	none
D	7316+25 to 7319+90	full width	Existing exit ramp pavement structure	none

*Offset from proposed EB Taylor Exit Ramp alignment.

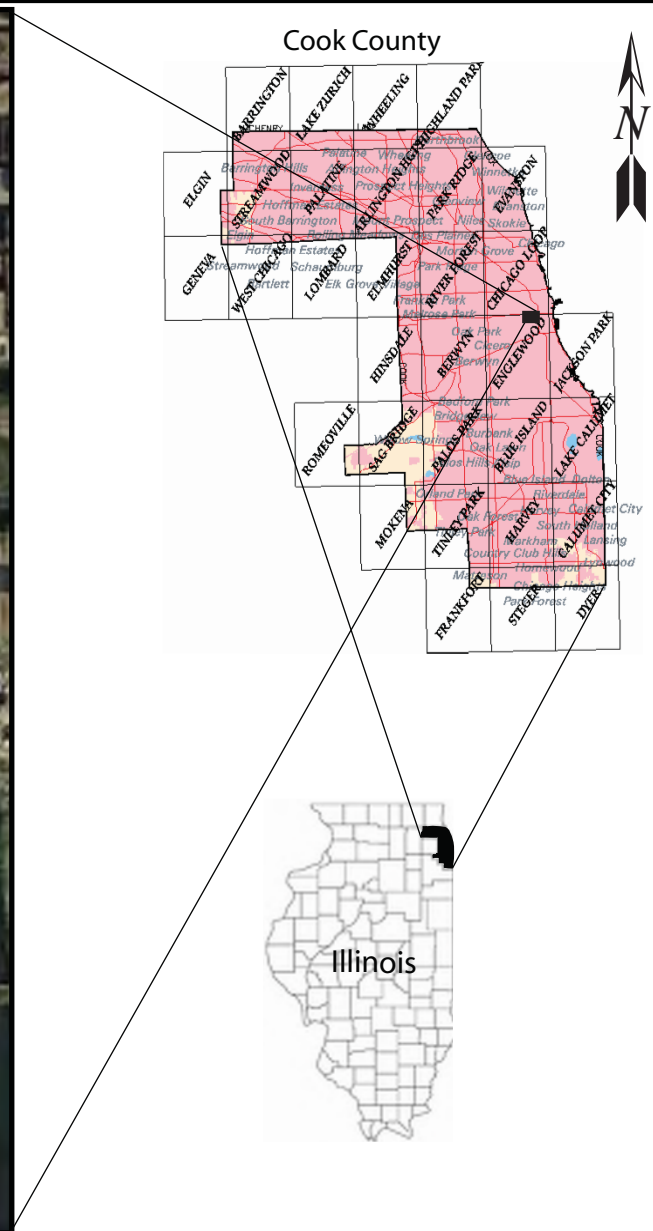
Recommendations

1. A geotextile fabric should be place at the base of the undercut;
2. The 24 inches of undercut treatment, could be reduced to 12 inches of undercut below the traffic lanes and to 9 inches of undercut below shoulders near the walls by using bi-axial or tri-axial geogrid. **The geogrid could be used within wall limits and reduce the undercut thickness to not interfere with the walls structural design.** The geogrid is designed specifically for the proposed average daily traffic volume, design life of the pavement, number of proposed axels, and axel loads and should follow the Contract Special Provisions.

Please contact us if you have any questions.

Attachments:

1. Exhibit 1: Site Location Plan
2. Appendix A: Boring Logs
3. Appendix B: Laboratory Test Results
4. Appendix C: Boring Location Plan and Soil Profile
(Based on drawings dated Jan.10, 2017)



0 0.25 0.5 Mile

SITE LOCATION MAP: CIRCLE INTERCHANGE RECONSTRUCTION,
EB TAYLOR EXIT RAMP, CHICAGO, IL

SCALE: GRAPHICAL	EXHIBIT 1	DRAWN BY: RKC CHECKED BY: C. Marin
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FOR AECOM	1100-04-01
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APPENDIX A



BORING LOG 10-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.61 ft
 North: 1897453.61 ft
 East: 1171289.67 ft
 Station: 7310+10.47
 Offset: 64.4358 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.34	inch thick, dark brown SILTY LOAM															
	592.4	--TOPSOIL-- Hard, brown SILTY CLAY LOAM, trace gravel and brick fragments			1	9 4 7	NP	13						9	2 3 3	0.66 B	15
	590.6	Medium dense, brown SILTY LOAM, trace gravel and brick fragments			2	5 5 5	NP	12						10	0 1 2	0.50 N/6	
		Loose to medium dense, brown, fine SAND	5									25					
		--FILL--			3	3 3 2	NP	14						11	1 1 1	0.16 B	26
		--FILL--			4	3 2 2	NP	19						12	0 1 1	0.16 B	25
	583.9	Stiff to hard, gray brown and gray SILTY CLAY, trace gravel	10		5	3 4 5	2.54 B	18									
					6	3 3 3	1.07 B	20						13	0 0 0	0.16 B	25
	578.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	15		7	0 0 1	0.41 B	27									
					8	1 2 1	0.33 B	18						14	0 0 0	0.25 B	25
			20									40					

--L_L(%)=33, P_L(%)=17--
 --%Gravel=3.4--
 --%Sand=14.9--
 --%Silt=48.7--
 --%Clay=32.9--
 --A-6 (12)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-26-2014** Complete Drilling **03-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **8.00 ft**
 At Completion of Drilling **90.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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 Offset: 64.4358 RT

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			45	X	15	0 2 2	0.25 B	26				65	X	19	10 14 24	5.74 B	19
			50	X	16	0 0 2	0.33 B	26				70	X	20	11 11 15	4.50	21
	541.9	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel								521.9	Loose, gray SILTY LOAM, trace gravel						
			55	X	17	6 8 12	5.08 B	21			--Saturated--	75	X	21	4 4 5	NP	21
										516.9	Hard, gray SILTY CLAY LOAM, trace gravel						
			60	O	18	14 15 24	6.50 N/6					80	X	22	17 19 29	9.84 S	13

GENERAL NOTES

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 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **90.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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	506.9	Very dense, gray GRAVELLY SILTY LOAM --Saturated--	85	X	23	17 22 40	9.76 S	14		492.1	Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 10-inch beds, 1- to 8-inch spaced joints, horizontal and vertical joints with none to more than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. --Run 1 - RECOVERY=100%-- --RQD=53%--	105		1			
	501.9	Very dense, gray GRAVELLY SAND --Saturated--	90	X	24	15 21 50/3	NP	23		482.1	Boring terminated at 111.50 ft	110					
	496.9	Very dense, gray SILTY LOAM, trace gravel	95	X	25	50/4	NP	15				115					
			100	X	26	50/5	NP	13				120					

GENERAL NOTES

WATER LEVEL DATA

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 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **90.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1897333.82 ft
 East: 1171374.94 ft
 Station: 7311+57.22
 Offset: 11.9525 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	593.0	6-inch thick, black and brown SILTY LOAM --TOPSOIL-- Loose to medium dense, brown, fine SAND --FILL--			1	3 5 6	NP	8						9	1 3 3	1.07 B	23	
			5		2	3 4 7	NP	11				25		10	2 2 2	0.49 B	28	
					3	8 7 6	NP	14						11	1 2 2	0.41 B	24	
			10		4	4 4 4	NP	21				30		12	1 2 2	0.67 N/6		
	583.0	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			5	3 5 8	3.69 B	25										
			15		6	4 6 5	2.30 B	16				35		13	0 1 2	0.33 B	26	
					7	3 3 5	1.48 B	21										
	575.5	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			8	2 2 3	0.66 B	28				40		14	1 2 2	0.49 B	23	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-26-2014** Complete Drilling **03-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig _____
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **mud at 7 ft**
 Time After Drilling **144 hours**
 Depth to Water ∇ **16.00 ft**

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Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1897333.82 ft
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 Station: 7311+57.22
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Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											--%Silt=49.7-- --%Clay=16.7-- --A-4 (3)--						
		--disturbed sample--	45		15	1 1 2	0.25 P	21				65		19	11 19 23	8.12 B	15
		--disturbed sample--	50		16	2 2 3	0.25 P	26		526.8	Dense to very dense, gray SILTY LOAM, trace gravel --Moist--	70		20	14 16 20	NP	18
	541.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	55		17	11 11 17	5.66 B	15				75		21	23 25 39	NP	12
		--L _L (%)=23, P _L (%)=15-- --%Gravel=6.7-- --%Sand=26.9--	60		18	14 24 29	4.50 P	12		516.8	Hard, gray SILTY CLAY LOAM, trace gravel	80		22	16 26 31	9.68 B	15

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-26-2014** Complete Drilling **03-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling **8.00 ft**
 At Completion of Drilling **mud at 7 ft**
 Time After Drilling **144 hours**
 Depth to Water **16.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1897333.82 ft
 East: 1171374.94 ft
 Station: 7311+57.22
 Offset: 11.9525 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	493.0	--DIFFICULT DRILLING-- --WEATHERED BEDROCK--								493.0							
	491.5	Strong, light gray, very poor rock mass quality, bedded fresh DOLOSTONE, up to 8-inch beds, up to 4-inch spaced joints, horizontal and vertical joints with none to more than 0.2-inch greenish gray infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.								491.5	C O R E						
	85		23	12 19 26	NP	18				105		1					
	506.8	Very dense, gray SILT --Moist--									C O R E						
	90	24	40 36 40	NP	19				110	2							
	501.8	Hard, gray SILTY CLAY LOAM, trace gravel															
	95	25	20 28 50/5	9.18 B	14				115								
	496.5	Very dense, gray GRAVELLY SILTY LOAM --Dry--															
	100	26	60/4	NP	10				120								
										481.5	Boring terminated at 68.50 ft						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-26-2014** Complete Drilling **03-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **mud at 7 ft**
 Time After Drilling **144 hours**
 Depth to Water ∇ **16.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Circle Interchange Reconstruction**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.09 ft
 North: 1897135.88 ft
 East: 1171421.19 ft
 Station: 7313+60.04
 Offset: 3.9003 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.2	11-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		Medium dense, black and reddish brown SILTY LOAM, trace gravel --FILL--			1	16 9 10	NP	25						9	1 1 1	0.16 B	31
	589.1	Loose to medium dense, brown SAND, trace gravel --FILL--			2	5 7 10	NP	6				25		10	1 2 2	0.16 B	29
					3	2 2 2	NP	22						11	2 2 2	0.16 B	27
	584.3	Stiff to very stiff, gray CLAY, trace gravel			4	2 4 8	2.46 B	24						12	2 2 2	0.16 B	22
					5	4 4 5	2.46 B	28									
		--L _I (%)=37, P _I (%)=19-- --%Gravel=2.0-- --%Sand=15.8-- --%Silt= 39.6-- --%Clay=42.5-- --A-6 (14)--			6	2 3 4	2.21 B	22						13	2 1 3	0.16 B	26
					7	3 4 5	1.72 B	29									
	575.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			8	2 1 2	0.33 B	28						14	2 2 2	0.25 B	25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-21-2014** Complete Drilling **02-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling Rotary wash
 At Completion of Drilling unable to measure
 Time After Drilling **NA**
 Depth to Water **NA**

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											--Moist to wet--							
			45		15	2 3 4	0.16 B	24				65		19	12 21 27	NP		22
	543.8	Hard, gray SILTY CLAY, trace gravel	50		16	3 5 6	0.90 B	26			--L _L (%)=NP, P _L (%)=NP-- --%Gravel=0.1-- --%Sand=44.4-- --%Silt=51.6-- --%Clay=4.0-- --A-4 (0)--	70		20	16 21 31	NP		21
			55		17	10 17 25	6.15 B	17				75		21	21 20 25	NP		22
	534.1	Dense to very dense, gray, fine SAND and SILT laminations	60		18	16 28 34	NP	17				80		22	18 27 31	4.50 P		14
										514.4	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel							

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-21-2014** Complete Drilling **02-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

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	506.3	Very dense, gray SILTY LOAM, trace to little gravel --Damp to dry--	85	23	20 27 46	4.92 S	14			490.1	--DIFFICULT DRILLING-- --AUGER REFUSAL-- Boring terminated at 103.00 ft	105					
			90	24	50/5	NP	12					110					
			95	25	50/5	NP	14					115					
	495.6	--HARD DRILLING-- Very dense, gray DOLOSTONE fragments -- WEATHERED BEDROCK--	100	26	50/1	NP	11					120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-21-2014** Complete Drilling **02-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.40 ft
 North: 1896930.29 ft
 East: 1171484.09 ft
 Station: 7315+74.84
 Offset: 0.8034' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.9	6-inch thick ASPHALT --PAVEMENT--									gravel						
		Dense, brown GRAVELLY LOAM --BASE COURSE--			1	29 29 20	NP	16						9	0 0 1	0.08 B	36
	590.4	Very loose to medium dense, brown, coarse SAND --Dry to saturated-- --FILL--			2	6 9 7	NP	4				25		10	1 1 2	0.25 P	17
					3	3 3 4	NP	16						11	0 0 2	0.33 N/6	
					4	4 8 6	NP	6						12	1 1 1	0.16 B	27
					5	3 2 3	NP	7									
					6	2 2 1	NP	15						13	0 0 2	< 0.25 P	26
	577.9	Medium dense, gray GRAVELLY SAND --Wet--			7	3 7 9	NP	8									
	574.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace			8	10 3 2	0.33 B	22						14	1 2 3	< 0.25 P	27

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-10-2014** Complete Drilling **03-13-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 15', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **13.00 ft**
 At Completion of Drilling ∇ **unable to measure**
 Time After Drilling **72 hours**
 Depth to Water ∇ **35.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.40 ft
 North: 1896930.29 ft
 East: 1171484.09 ft
 Station: 7315+74.84
 Offset: 0.8034' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	511.7	--HARD DRILLING-- --Possible Cobbles--								492.4							
		Very dense, gray GRAVELLY SAND									Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 19-inch beds, 11-inch joint spacing, horizontal and vertical joints with none to more than 0.2-inch greenish gray infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.						
		--Wet--	85	X	23	45 50/5	NP	10			--Run 1 - RECOVERY=96%-- --RQD=71%--	105		1			
		-HARD DRILLING up to 89.5 ft-- --Possible Cobbles--															
	503.9	Hard, gray SILTY LOAM, trace to little gravel	90		24	50/2	NP										
		--Dry--								482.4	Boring terminated at 111.00 ft						
			95	X	25	70/5	4.50 P	9				115					
		--HARD DRILLING at 97 ft-- --Possible Cobbles--															
	496.4	--WEATHERED BEDROCK--															
		--HARD DRILLING--															
			100		26	75/3	NP					120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-10-2014** Complete Drilling **03-13-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **13.00 ft**
 At Completion of Drilling ∇ **unable to measure**
 Time After Drilling **72 hours**
 Depth to Water ∇ **35.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-05

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Circle Interchange Reconstruction**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.22 ft
 North: 1896756.05 ft
 East: 1171508.19 ft
 Station: 6236+85.54
 Offset: 115.5731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.94	4-inch thick ASPHALT --PAVEMENT--															
	578.7	14-inch thick CONCRETE --PAVEMENT--															
	576.2	Very dense, grayish white SANDY GRAVEL --FILL--			1	12 28 33	NP	5						9	0 0 0	0.33 B	27
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	4 2 2	0.74 B	24				25		10	0 1 1	0.25 B	27
					3	1 2 2	0.60 P	20						11	0 1 2	< 0.25 P	26
					4	0 1 2	0.41 B	23						12	0 0 2	0.41 B	27
					5	0 0 0	0.25 B	26									
					6	0 0 0	0.25 B	26						13	1 2 2	< 0.25 P	32
					7	0 0 2	< 0.25 P	29		543.5	Medium dense, SILTY LOAM, trace gravel						
					8	0 0 1	< 0.25 P	31						14	5 7 14	NP	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling Rotary wash
 At Completion of Drilling unable to measure
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.22 ft
 North: 1896756.05 ft
 East: 1171508.19 ft
 Station: 6236+85.54
 Offset: 115.5731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	538.5	Hard, gray SILTY CLAY, trace gravel							[Pattern]		Dense, gray SILTY LOAM, trace gravel Boring terminated at 65.00 ft						
	45		15	6 13 29	7.13 B	18				515.7 515.2		65	19 25 18	NP	12		
	533.5	Very dense, gray SILTY LOAM, trace gravel							[Pattern]								
	50		16	11 27 39	NP	11				70							
	525.7	Medium dense to dense, gray, fine SAND, trace gravel							[Pattern]								
	55		17	12 18 24	NP	15				75							
									[Pattern]								
	60	18	10 11 14	NP	23			80									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-06

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Circle Interchange Reconstruction**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.32 ft
 North: 1896599.90 ft
 East: 1171526.13 ft
 Station: 7319+07.86
 Offset: 10.6588 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		24-inch thick, CONCRETE --PAVEMENT--															
	576.3	Dense, white CRUSHED STONE --BASE COURSE--			1	28 27 12	NP	4						9	0 0 1	0.25 B	25
	574.9	Stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	2 3 4	1.23 B	23				25		10	0 0 1	0.25 B	22
	572.8	Soft, gray SILTY CLAY LOAM, trace gravel			3	0 1 2	0.41 B	18						11	0 0 2	0.41 B	23
	570.3	Very soft to soft, gray CLAY			4	1 1 2	0.25 B	25						12	0 1 3	0.57 B	25
					5	0 0 2	0.25 B	26		549.3	Medium stiff, gray SILTY CLAY	30		13	3 6 6	3.00 P	14
					6	0 0 0	NR			546.3	Very stiff to hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	35		14	9 14 13	4.92 S	14
					7	0 0 0	0.16 B	24									
					8	0 0 2	0.16 B	24				40					

GENERAL NOTES

Begin Drilling **07-15-2014** Complete Drilling **07-15-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig _____
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 14-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.85 ft
 North: 1897238.90 ft
 East: 1171475.76 ft
 Station: 6232+11.89
 Offset: 63.2525 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick CONCRETE --PAVEMENT--															
	579.6																
	579.3	3-inch thick ASPHALT															
		Medium dense, brownish white CRUSHED STONE --BASE COURSE--			1	15 17 9	NP	15						9	1 2 1	0.16 B	23
	577.6				2	3 2 3	0.49 B	22				25		10	1 2 1	0.25 B	25
		Soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.57 B	28						11	0 2 2	0.33 B	26
					4	1 2 1	0.41 B	27				30		12	2 3 3	0.49 B	25
					5	2 1 2	0.41 B	23									
					6	2 2 2	0.25 B	27				35		13	2 3 4	0.25 B	21
					7	2 1 3	0.25 B	26		544.1	Very stiff to hard, gray SILTY CLAY, trace gravel						
					8	1 1 1	0.25 B	28				40		14	3 4 5	3.00 P	19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **52.00 ft**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 1/13/17



BORING LOG 14-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.85 ft
 North: 1897238.90 ft
 East: 1171475.76 ft
 Station: 6232+11.89
 Offset: 63.2525 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.1	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	45	X	15	12 18 47	5.17 B	17		515.8		65	X	19	14 23 33	NP	17
											Boring terminated at 65.00 ft						
	529.1	Very dense, gray SAND to SANDY LOAM, trace gravel	50	X	16	33 45 32 4	3.28 S	15				70					
			55	X	17	17 23 36	NP	18				75					
			60	X	18	13 30 22	NP	19				80					

GENERAL NOTES

Begin Drilling **07-28-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **unable to measure**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 14-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.96 ft
 North: 1896992.53 ft
 East: 1171501.15 ft
 Station: 6234+52.32
 Offset: 75.7462 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick CONCRETE --PAVEMENT--															
	581.6																
	581.34	1/2-inch thick ASPHALT --PAVEMENT--															
		Dense, grayish white SANDY GRAVEL --FILL--		X	1	22 22 13	NP	3					X	9	0 0 0	0.16 B	27
	579.0			X	2	4 3 5	1.64 B	23					X	10	0 0 0	0.25 B	26
		Stiff, gray SILTY CLAY, trace gravel		X	3	2 2 3	1.07 B	24					X	11	0 1 1	0.33 B	24
	575.0			X	4	1 2 2	0.41 B	32					X	12	1 1 2	< 0.25 P	26
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	5	0 0 0	0.16 B	39					X	13	1 2 2	0.82 B	24
				X	6	0 0 1	0.41 B	26					X	14	1 1 2	0.57 B	27
				X	7	0 0 0	0.25 B	25									
				X	8	0 0 0	0.25 B	25									

GENERAL NOTES

Begin Drilling **07-20-2014** Complete Drilling **07-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 1/13/17



BORING LOG 14-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.96 ft
 North: 1896992.53 ft
 East: 1171501.15 ft
 Station: 6234+52.32
 Offset: 75.7462 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.2	Dense to very dense, gray CLAY LOAM to SILTY LOAM, trace gravel															
		--Dry--	45		15	8 12 20	5.74 B	13		518.0		65		19	16 20 22	NP	22
											Boring terminated at 65.00 ft						
		--L _L (%)=26, P _L (%)=15-- --%Gravel=5.1-- --%Sand=25.2-- --%Silt=47.0-- --%Clay=22.7-- --A-6 (5)--	50		16	13 20 20	NP	12				70					
	528.5	--5-inch, brown, coarse SAND--	55		17	9 18 47	NP	12				75					
	526.2	Dense to very dense, brown, fine SAND															
		--Moist--	60		18	15 21 37	NP	22				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2014** Complete Drilling **07-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 1/13/17



BORING LOG 15-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1897200.61 ft
 East: 1171415.26 ft
 Station: 7312+95.51
 Offset: 3.9204 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	531.8									531.8	Dense, gray, medium SAND, trace gravel							
		--L _L (%)=34, P _L (%)= 18-- --%Gravel=4.4-- --%Sand=14.5-- --%Silt=47.7-- --%Clay=33.3-- --A-6 (12)--	45	X	15	3 4 5	0.50 P	25			--Moist to wet--	65	X	19	13 20 25		NP	24
			50	X	16	2 2 2	0.82 B	27			--HARD DRILLING-- --Possible Cobbles--	70	X	20	22 16 24		NP	24
	541.8	Hard, gray SILTY CLAY LOAM, trace gravel	55	X	17	14 18 30	5.33 S	13				75	X	21	14 18 21		NP	19
			60	X	18	14 22 26	6.72 S	13				80	X	22	18 39 50	4.50 P		13
	516.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel								516.8								

GENERAL NOTES

Begin Drilling **02-25-2014** Complete Drilling **02-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 15-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1897200.61 ft
 East: 1171415.26 ft
 Station: 7312+95.51
 Offset: 3.9204 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	503.5		85		23	22 32 50	9.02 S	13									
		--L _L (%)=26, P _L (%)=16-- --%Gravel=0.1-- --%Sand=11.7-- --%Silt=62.6-- --%Clay=25.6-- --A-4 (7)--			24	25 33 48	10.25 S	13									
		Boring terminated at 90.00 ft	90														
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-25-2014** Complete Drilling **02-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 15-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 592.37 ft
 North: 1897034.79 ft
 East: 1171464.06 ft
 Station: 7314+68.92
 Offset: 10.2077' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.4	12-inch thick, brown SANDY LOAM															
		--FILL--															
		Very stiff, gray SILTY CLAY LOAM, trace gravel and roots			1	3 6 7	2.05 S	17						9	0 0 2	0.41 B	24
	589.4	--FILL--															
		Medium dense, SILTY LOAM to SILTY CLAY LOAM, trace gravel, sand and brick			2	6 5 5	NP	17				25		10	0 0 0	0.74 B	30
	586.9	--FILL--															
		Very loose to loose, brown, fine SAND			3	3 4 4	NP	18						11	1 1 1	0.74 B	22
		--Wet--															
	582.9				4	2 3 2	NP	17						12	0 2 2	0.57 B	23
		Stiff, brown and gray SILTY CLAY, trace gravel	10														
					5	2 2 3	1.00 P	29									
					6	0 2 2	1.23 B	24						13	0 0 1	0.41 B	25
	576.9		15														
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 2 2	0.82 B	24									
					8	0 1 2	0.57 B	24						14	0 1 2	0.41 B	25
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-03-2014** Complete Drilling **04-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 11', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **unable to measure**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 1/13/17



BORING LOG 15-RWB-02

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 592.37 ft
 North: 1897034.79 ft
 East: 1171464.06 ft
 Station: 7314+68.92
 Offset: 10.2077' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	530.6									530.6	Very dense, gray SILT						
											--Wet--			19	55/5		NP
			45		15	0 2 3	0.82 B	25									
										527.4	Boring terminated at 65.00 ft	65					
			50		16	0 1 2	0.41 B	28				70					
	540.6	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel															
			55		17	7 7 14	4.10 B	20				75					
		--HARD DRILLING-- --Possible Cobbles--															
			60		18	10 25 50/5	3.28 S	14				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-03-2014** Complete Drilling **04-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **unable to measure**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 1/13/17



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 Fax: 630 953-9938

BORING LOG 15-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.75 ft
 North: 1896801.76 ft
 East: 1171517.06 ft
 Station: 6236+42.48
 Offset: 97.8444 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.0	Very dense, gray SILTY LOAM, trace gravel --Dry--	45	X	6	8 14 25	7.46 B	17		515.7		65	X	10	9 11 11	NP	23
											Boring terminated at 65.00 ft						
	529.0	Medium dense to dense, brown fine SAND --Moist--	50	X	7	13 28 38	NP	12				70					
			55	X	8	13 14 18	NP	21				75					
			60	X	9	9 13 14	NP	23				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-08-2014** Complete Drilling **08-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25 SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **unable to measure**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 1/13/17



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BORING LOG SB90-SGB-24

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Circle Interchange Reconstruction**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.24 ft
 North: 1897470.25 ft
 East: 1171446.01 ft
 Station: 1512+28.05
 Offset: 14.8803 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.0	15-inch thick, CONCRETE --PAVEMENT--															
	574.5	Medium dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	13 14 13 6	NP	5									
		Soft to medium stiff, gray CLAY to CLAY LOAM, trace gravel --L _L (%)=28, P _L (%)=16-- --%Gravel=2.8-- --%Sand=13.3-- --%Silt=64.3-- --%Clay=19.6-- --A-6 (8)--	5		2	2 2 2 3	0.74 B	23									
					3	1 1 2 2	0.66 B	19									
					4	1 1 2 2	0.41 B	20									
			10		5	0 1 2 2	0.25 B	24									
	566.7	Boring terminated at 11.50 ft															
			15														
			20														

GENERAL NOTES

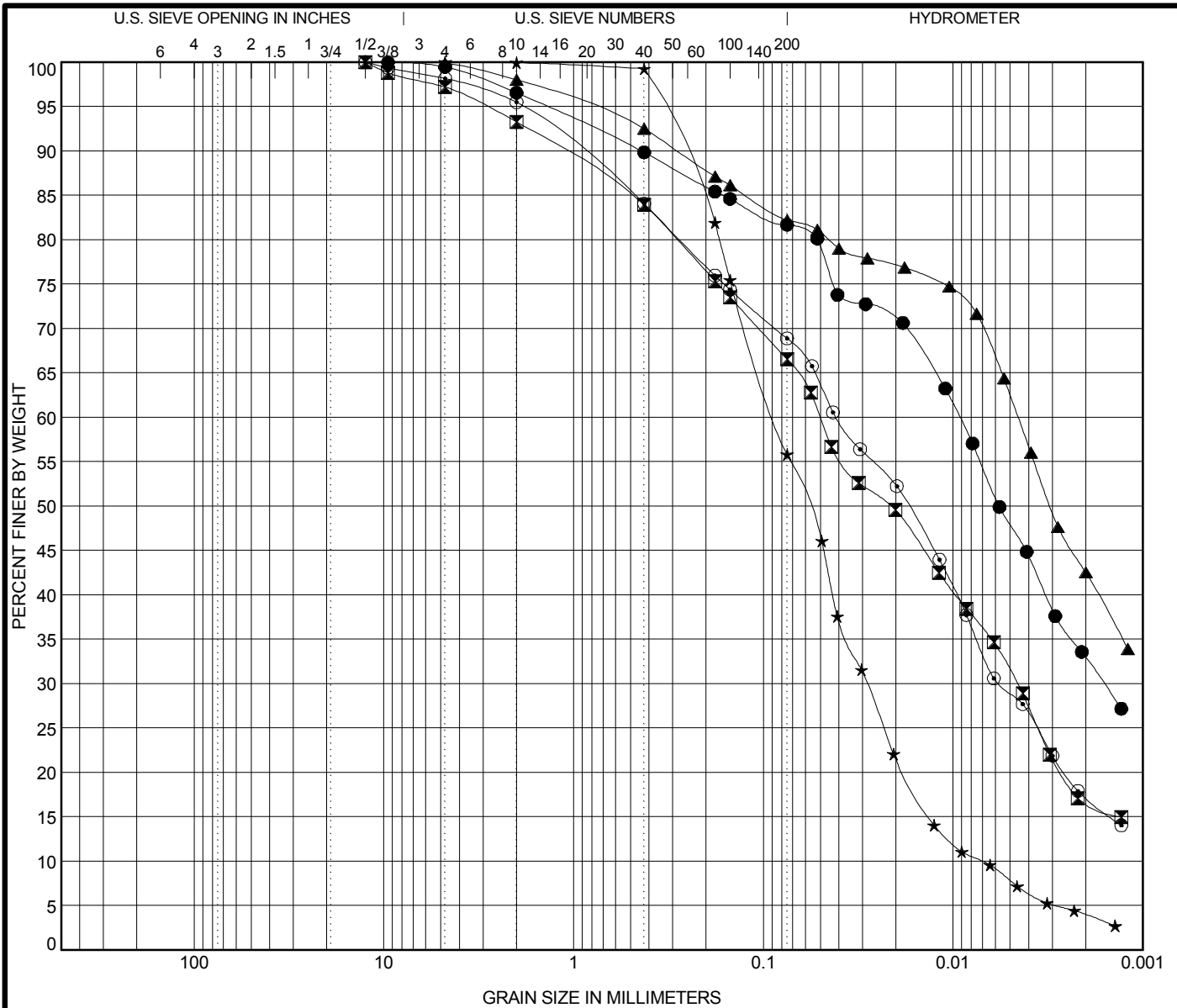
WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

APPENDIX B



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	10-RWB-01#12	28.5 ft	Silty Clay					33	17	16		
☒	10-RWB-02#18	58.5 ft	Silty Loam					23	15	8		
▲	10-RWB-03#6	13.5 ft	Clay					37	19	18		
★	10-RWB-03#20	68.5 ft	Silty Loam					NP	NP	NP	1.33	12.36
⊙	10-RWB-04#18	58.5 ft	Silty Loam					24	14	10		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	10-RWB-01#12	28.5 ft	9.5	0.009	0.002		3.4	14.9	48.7	32.9		
☒	10-RWB-02#18	58.5 ft	12.5	0.05	0.005		6.7	26.9	49.7	16.7		
▲	10-RWB-03#6	13.5 ft	9.5	0.005			2.0	15.8	39.6	42.5		
★	10-RWB-03#20	68.5 ft	4.75	0.087	0.029	0.007	0.1	44.4	51.6	4.0		
⊙	10-RWB-04#18	58.5 ft	12.5	0.041	0.006		4.5	26.8	51.5	17.2		

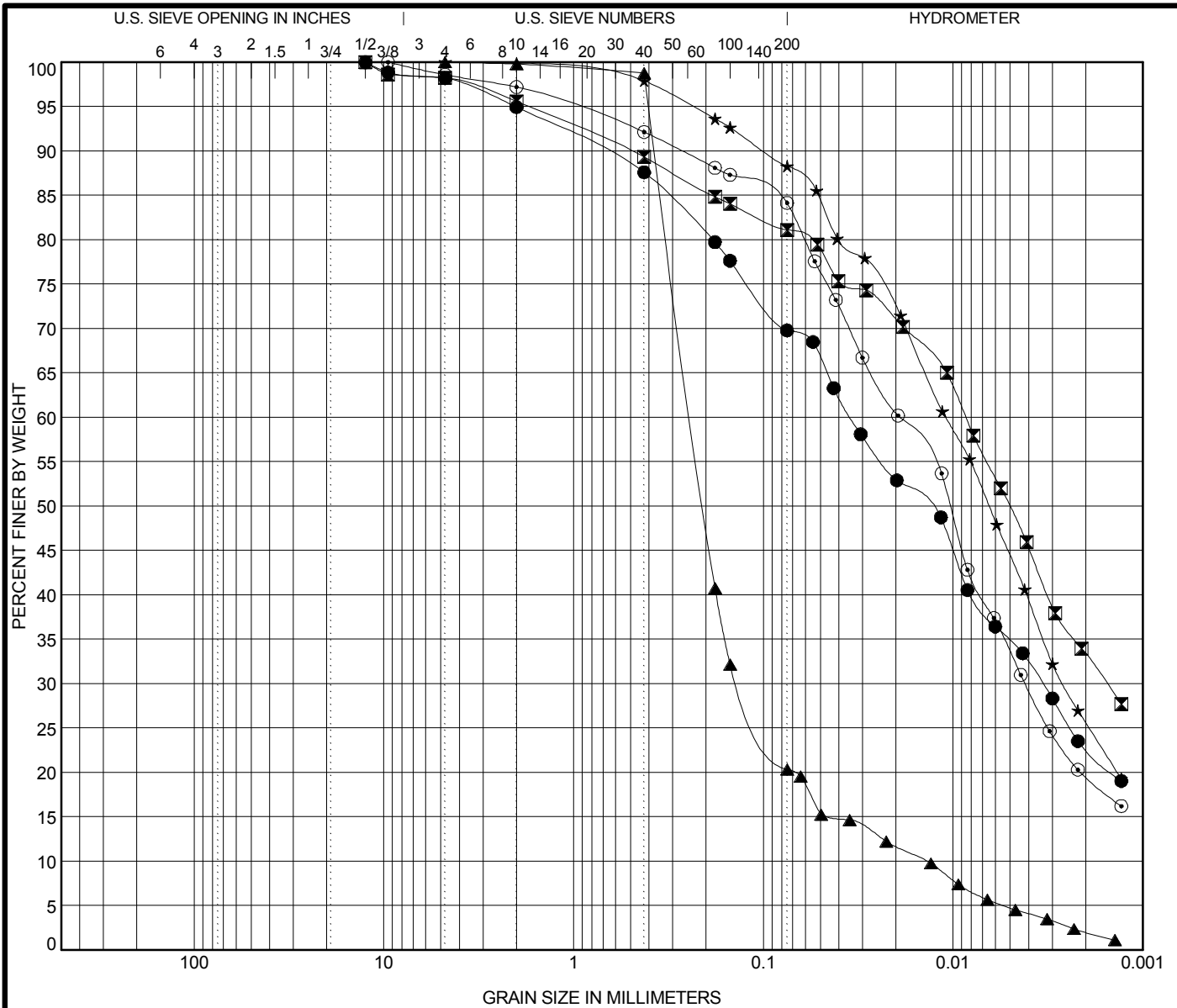
WEI GRAIN SIZE IDH 11000401.GPJ US LAB.GDT 1/13/17



Wang Engineering
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

GRAIN SIZE DISTRIBUTION

Project: Circle Interchange Reconstruction
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● 14-RWB-03#16 48.5 ft	Clay Loam	26	15	11		
☒ 15-RWB-01#15 43.5 ft	Clay	34	18	16		
▲ 15-RWB-01#20 68.5 ft	Sandy Loam	NP	NP	NP	5.29	17.33
★ 15-RWB-01#24 88.5 ft	Silty Clay Loam	26	16	10		
⊙ SB90-SGB-24#2 3.5 ft	Silty Clay Loam	28	16	12		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 14-RWB-03#16 48.5 ft	12.5	0.035	0.003		5.1	25.2	47.0	22.7
☒ 15-RWB-01#15 43.5 ft	12.5	0.009	0.002		4.4	14.5	47.7	33.3
▲ 15-RWB-01#20 68.5 ft	4.75	0.239	0.132	0.014	0.2	79.5	18.3	2.0
★ 15-RWB-01#24 88.5 ft	4.75	0.011	0.003		0.1	11.7	62.6	25.6
⊙ SB90-SGB-24#2 3.5 ft	9.5	0.019	0.004		2.8	13.3	64.3	19.6



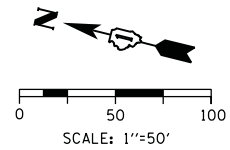
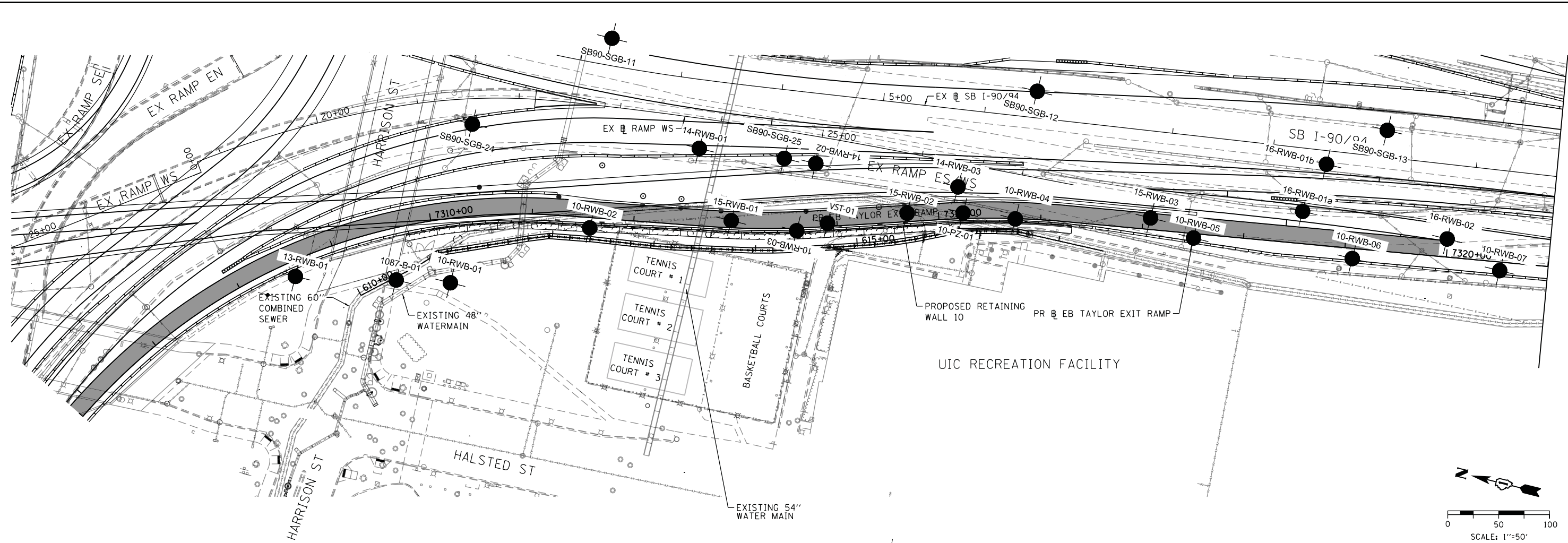
Wang Engineering
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

GRAIN SIZE DISTRIBUTION
 Project: Circle Interchange Reconstruction
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

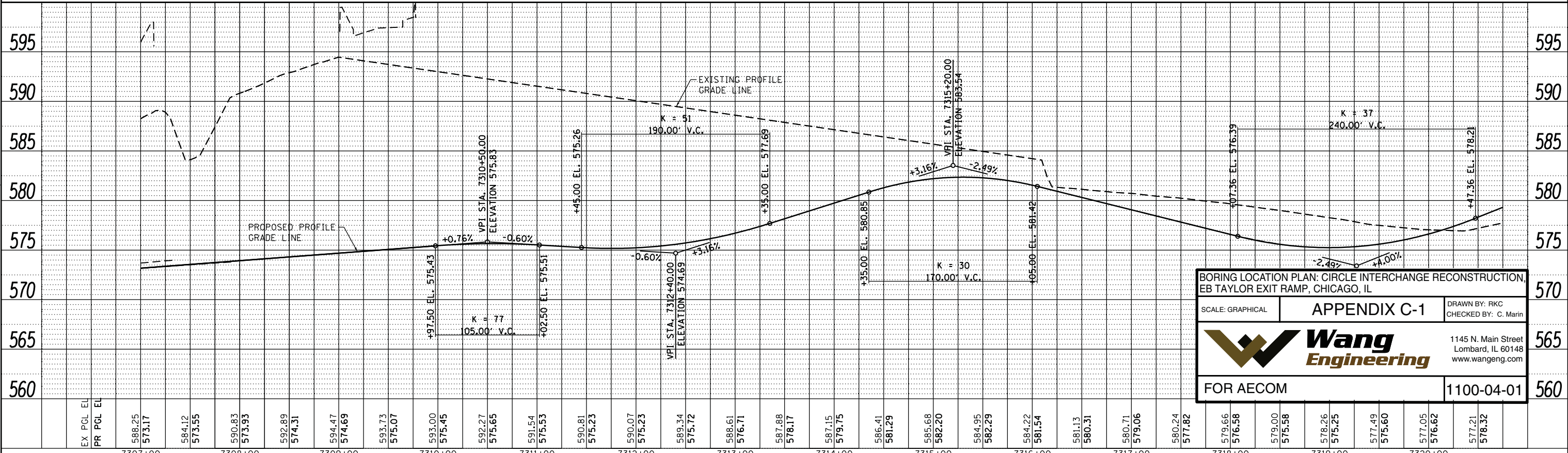
WEI GRAIN SIZE IDH 11000401.GPJ US_LAB.GDT 1/13/17

APPENDIX C

PLAN	SUBMITTED	DATE
NOTE BOOK	ALIGNED	
NO.	CHECKED	
	FILE NAME	



PROFILE	SUBMITTED	DATE
GRADES CHECKED	PLOTTED	
STRUCTURE	NOT AT THIS OFFICE	
NO.		



BORING LOCATION PLAN: CIRCLE INTERCHANGE RECONSTRUCTION, EB TAYLOR EXIT RAMP, CHICAGO, IL

SCALE: GRAPHICAL **APPENDIX C-1** DRAWN BY: RKC
 CHECKED BY: C. Marin

Wang Engineering
 1145 N. Main Street
 Lombard, IL 60148
 www.wangeng.com

FOR AECOM 1100-04-01



D162474-SHT-PP-01
 USER NAME = chluA
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 1/10/2017

DESIGNED - OPS
 DRAWN - PHP
 CHECKED - AFC
 DATE - \$DATE

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN AND PROFILE
 RETAINING WALL 10**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 7309+74.23 TO STA. 7316+35.28

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	\$TOTAL	\$RDO1
CONTRACT NO. 62A74				
ILLINOIS FED. AID PROJECT				

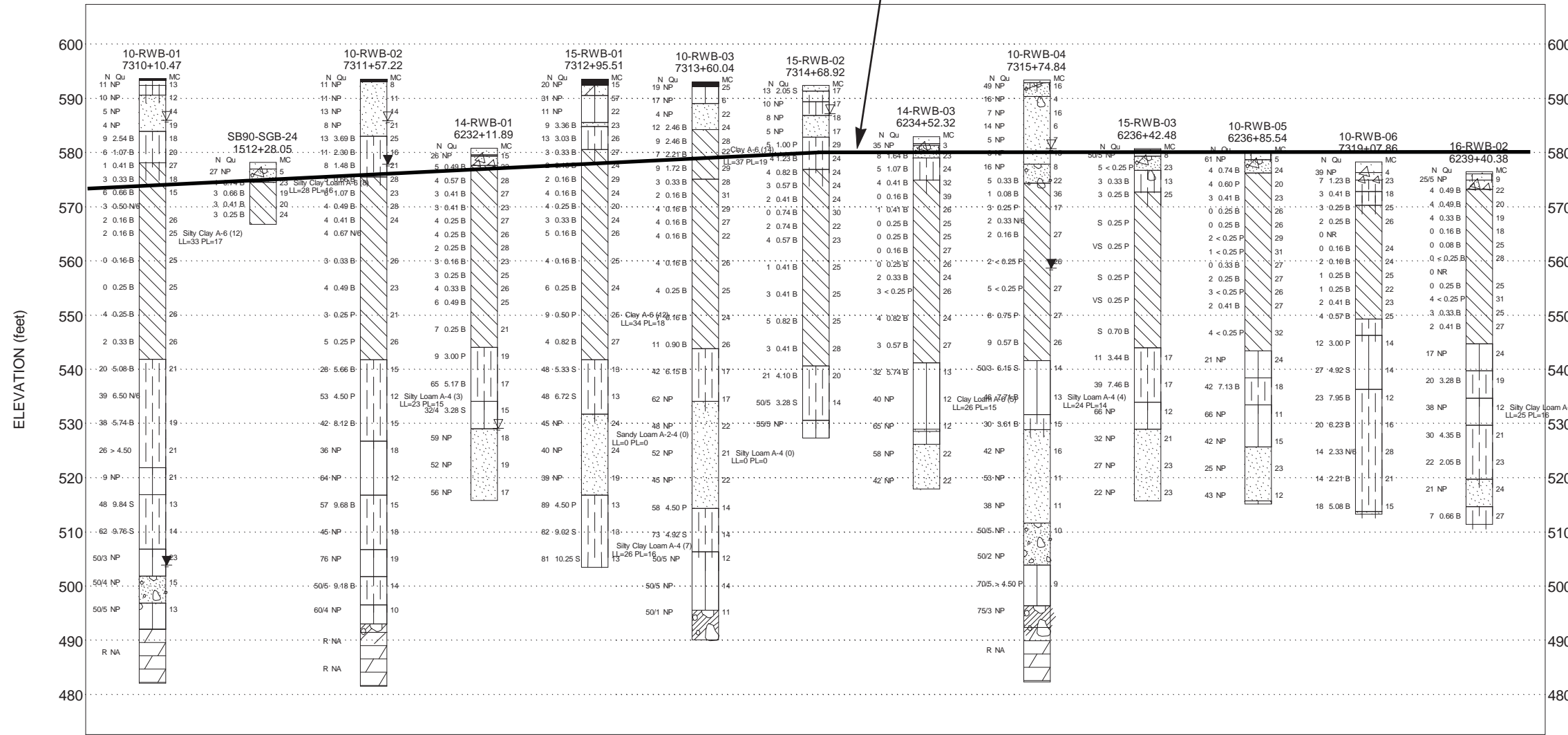


N



N

Proposed Subgrade Elevation



DISTANCE ALONG PROFILE (feet)

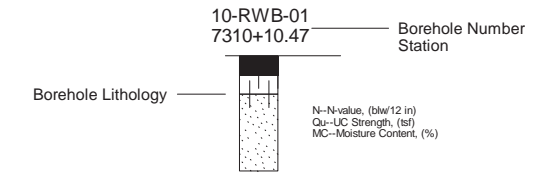
Lithology Graphics

- Topsoil
- IDH Silty Clay, Silty Clay Loam
- IDH Silt, Silty Loam
- IDH Sand, Sandy Loam
- IDH Clay
- Gravelly sand, sandy gravel
- Dolomite or Dolomitic Limestone
- Weathered bedrock
- Pavement
- Concrete
- Crushed stone
- IDH Loam

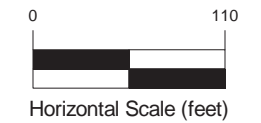


Site Map Scale 1 inch equals 405 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 4.5x

Wang Engineering
 1145 N Main Street
 Lombard, IL 60148

SOIL PROFILE



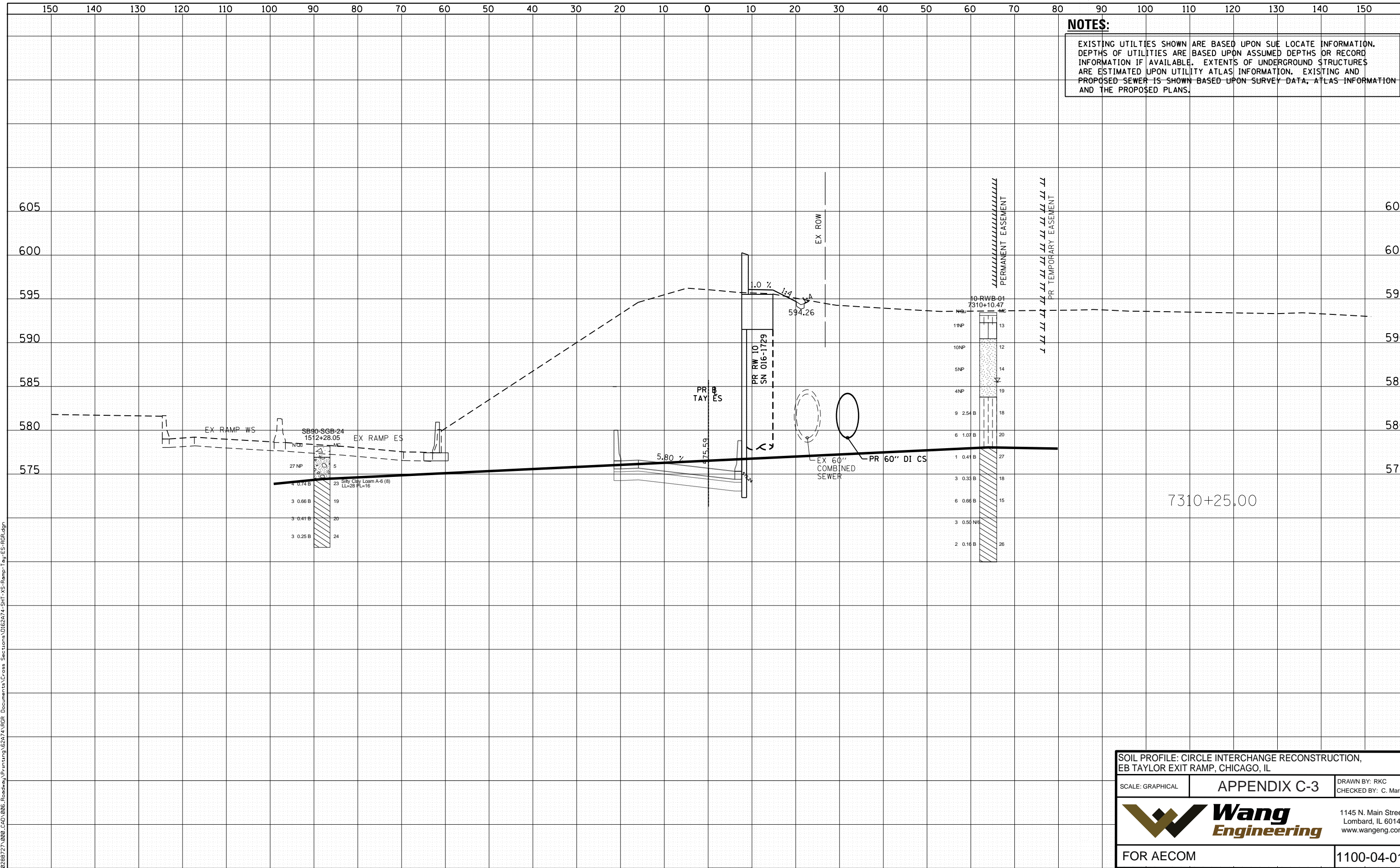
Circle Interchange Reconstruction
 Section 17, T39N, R14E of 3rd PM

JOB NUMBER	PLATE NUMBER
1100-04-01	APPENDIX C-2

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION, DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
NO.	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS
	CHECKED



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SOIL PROFILE: CIRCLE INTERCHANGE RECONSTRUCTION,
 EB TAYLOR EXIT RAMP, CHICAGO, IL

SCALE: GRAPHICAL **APPENDIX C-3** DRAWN BY: RKC
 CHECKED BY: C. Marin

Wang Engineering
 1145 N. Main Street
 Lombard, IL 60148
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FOR AECOM 1100-04-01



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PLOT DATE = 1/10/2017	DATE - 8/11/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
90/94/290	2014-004R&B	COOK	274
SHEET 04 OF 04 STLS SHEETS			STA. 7310+25.00 TO STA. 7310+50.00

CONTRACT NO.	SHEET NO.
62A74	274
ILLINOIS FED. AID PROJECT	

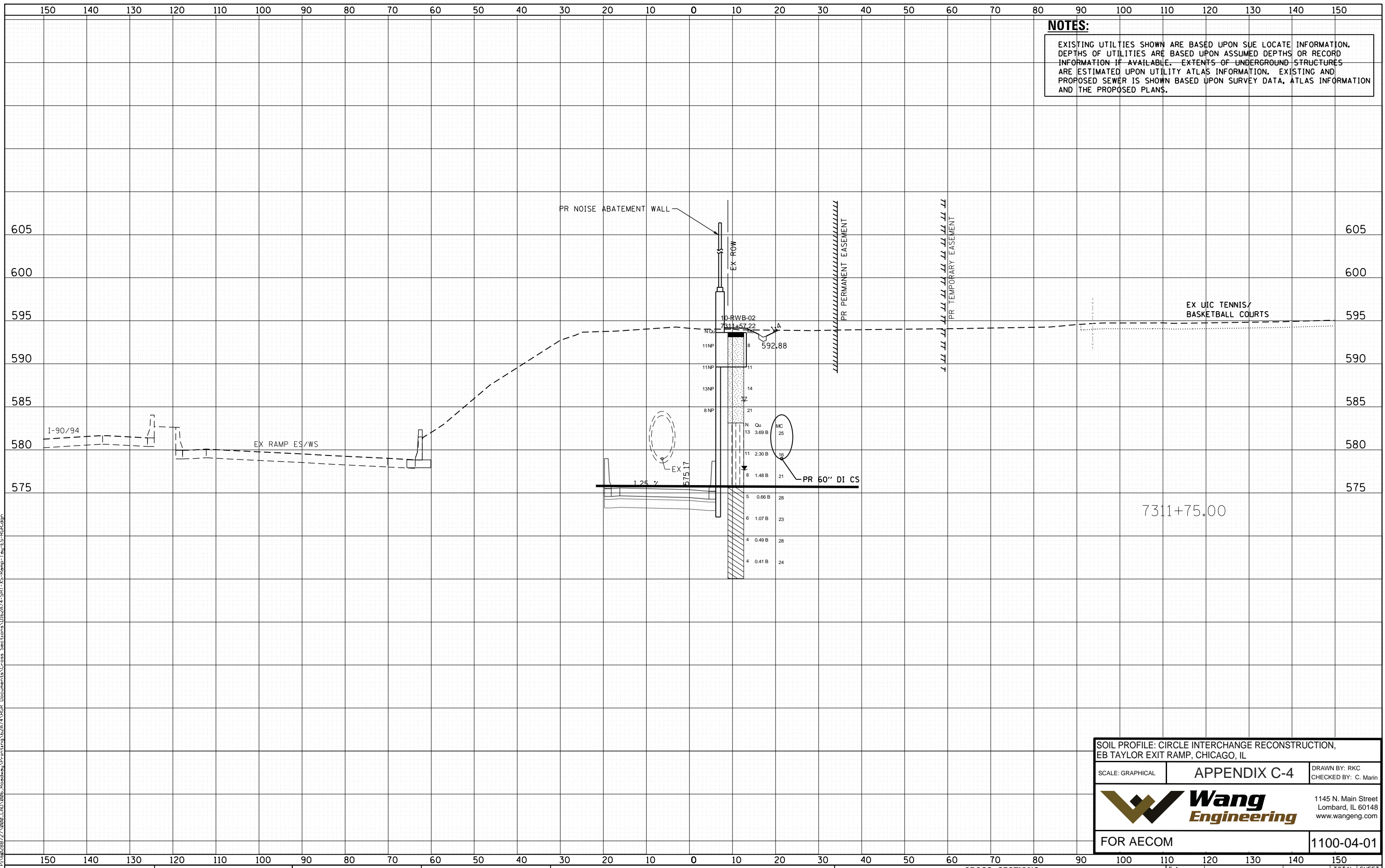
NOTES:

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

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SOIL PROFILE: CIRCLE INTERCHANGE RECONSTRUCTION, EB TAYLOR EXIT RAMP, CHICAGO, IL			
SCALE: GRAPHICAL	APPENDIX C-4	DRAWN BY: RKC	CHECKED BY: C. Marin
		1145 N. Main Street Lombard, IL 60148 www.wangeng.com	
		FOR AECOM	
		1100-04-01	



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PLOT DATE = 1/10/2017	DATE - 8/11/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
EB TAYLOR EXIT RAMP/
RETAINING WALL 10 (SN 016-1729)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	274	ESTAY07
CONTRACT NO. 62A74				
ILLINOIS FED. AID PROJECT				

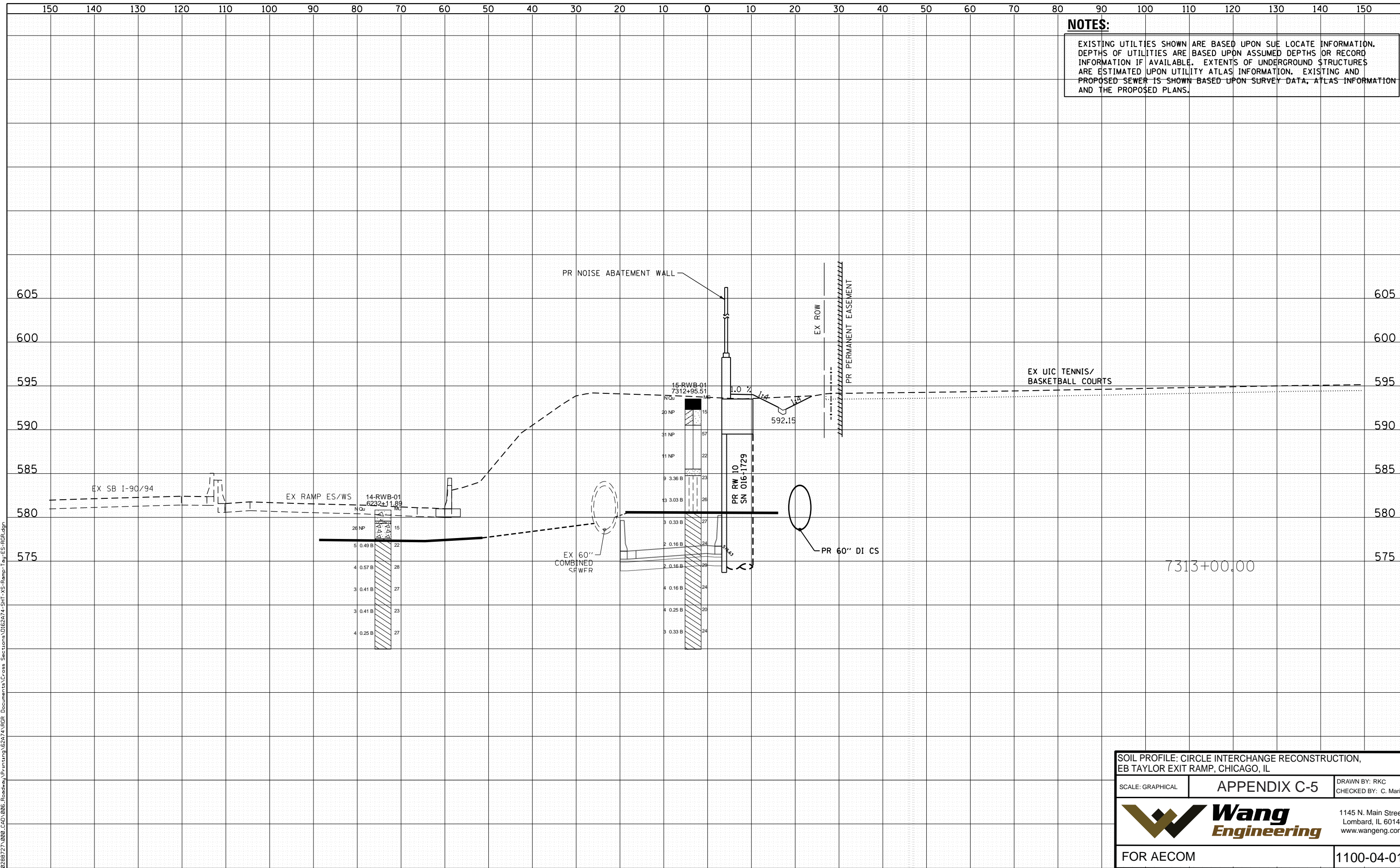
SHEET 07 OF 8XSTL SHEETS STA. 7311+75.00 TO STA. 7312+00.00

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
NO.	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
NO.	
ORIGINAL SURVEY	SURVEYED
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SOIL PROFILE: CIRCLE INTERCHANGE RECONSTRUCTION, EB TAYLOR EXIT RAMP, CHICAGO, IL			
SCALE: GRAPHICAL	APPENDIX C-5	DRAWN BY: RKC CHECKED BY: C. Marin	
		1145 N. Main Street Lombard, IL 60148 www.wangeng.com	
		CONTRACT NO. 62A74	
FOR AECOM		1100-04-01	



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

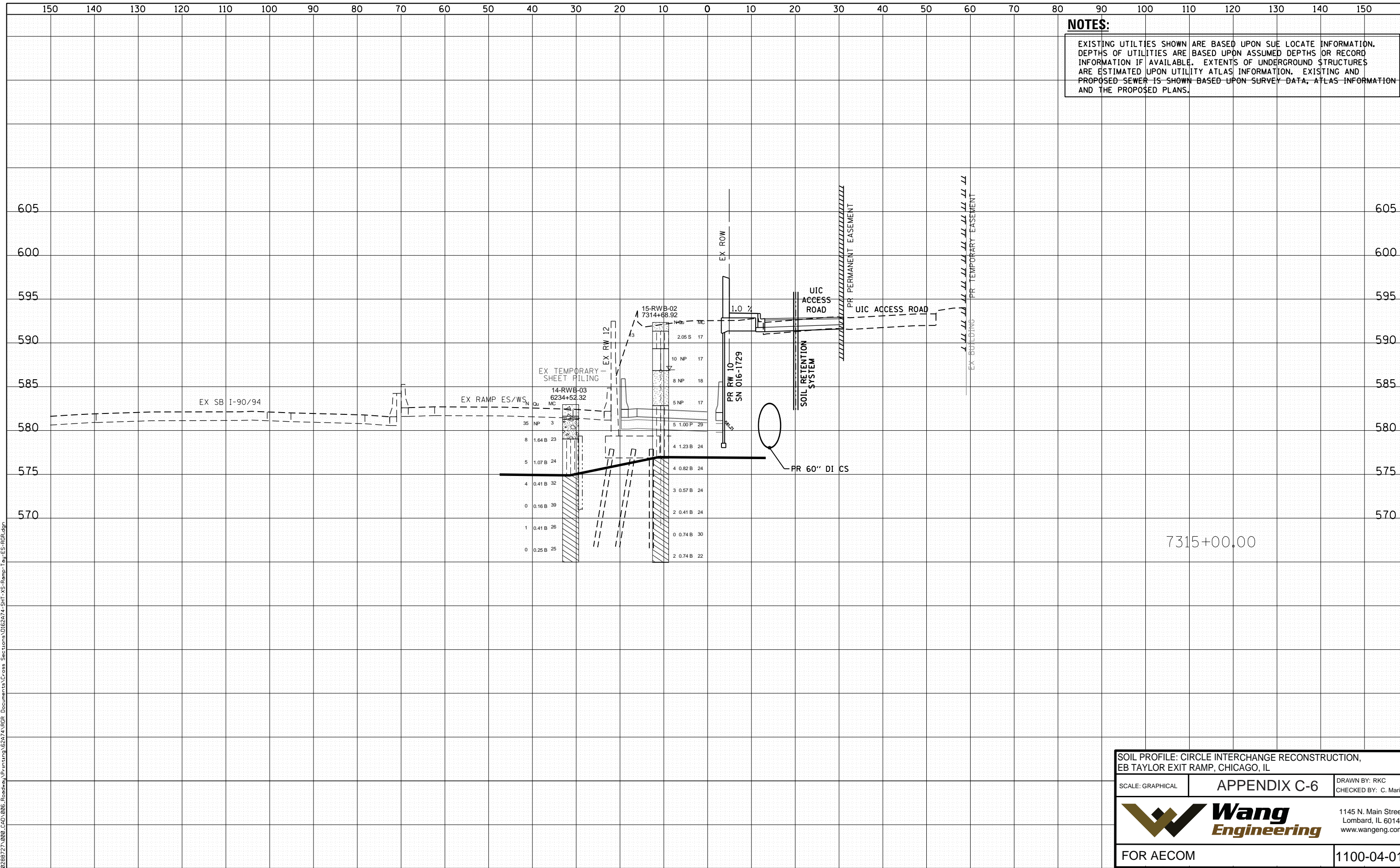
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EB TAYLOR EXIT RAMP/ RETAINING WALL 10 (SN 016-1729)			
SHEET	OF #XSTL SHEETS	STA. 7312+75.00	TO STA. 7313+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	274	274
ILLINOIS FED. AID PROJECT				

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
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ORIGINAL SURVEY	
NOTE BOOK	
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SOIL PROFILE: CIRCLE INTERCHANGE RECONSTRUCTION,
 EB TAYLOR EXIT RAMP, CHICAGO, IL

SCALE: GRAPHICAL APPENDIX C-6 DRAWN BY: RKC
 CHECKED BY: C. Marin

Wang Engineering
 1145 N. Main Street
 Lombard, IL 60148
 www.wangeng.com

FOR AECOM 1100-04-01



D16274-SHT-XS-Ramp-Tay-ES-RGR.dgn	DESIGNED - PHP	REVISED -
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PLOT DATE = 1/10/2017	DATE - 8/11/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 EB TAYLOR EXIT RAMP/
 RETAINING WALL 10 (SN 016-1729)

SHEET	OF \$XSTL SHEETS	STA. 7315+00.00	TO STA. 7315+00.00
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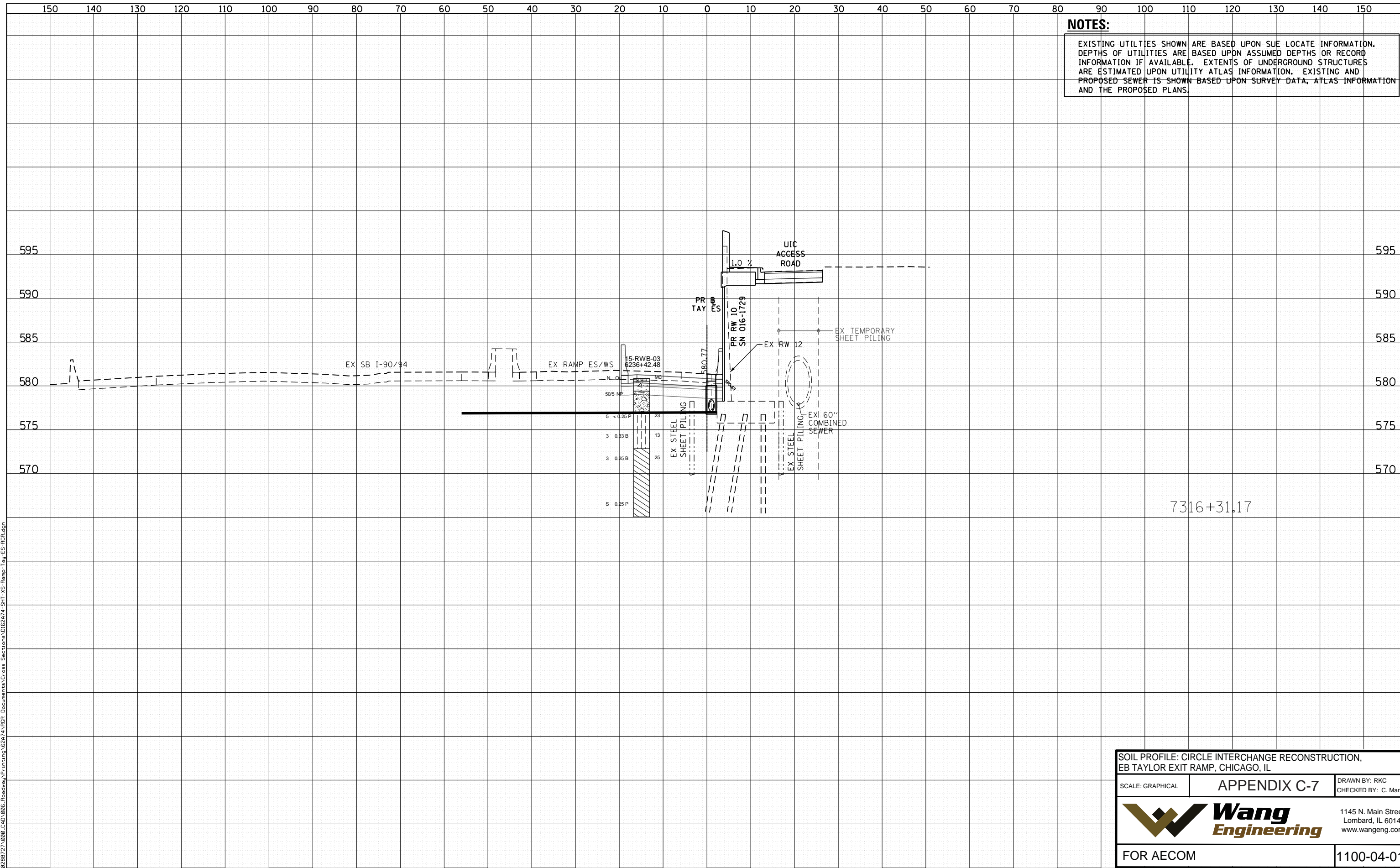
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90/94/290	2014-004R&B	COOK	274	274
CONTRACT NO. 62A74				ESTAY18
ILLINOIS FED. AID PROJECT				

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
NO.	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS CHECKED

DATE	
BY	
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS CHECKED

FILE PATH = P:\028827\000_CAD\006_Roadway\Printing\267\AUG Documents\Cross Sections\0162474-SHT-XS-Ramp-Tay-ES-RGR.dgn



SOIL PROFILE: CIRCLE INTERCHANGE RECONSTRUCTION, EB TAYLOR EXIT RAMP, CHICAGO, IL			
SCALE: GRAPHICAL	APPENDIX C-7	DRAWN BY: RKC CHECKED BY: C. Marin	
		1145 N. Main Street Lombard, IL 60148 www.wangeng.com	
		FOR AECOM	
		1100-04-01	



D162474-SHT-XS-Ramp-Tay-ES-RGR.dgn	DESIGNED - PHP	REVISED -
USER NAME = ChiuA	DRAWN - PHP	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 1/10/2017	DATE - 8/11/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 EB TAYLOR EXIT RAMP/
 RETAINING WALL 10 (SN 016-1729)
 SHEET OF *XSTL SHEETS STA. 7316+25.00 TO STA. 7316+31.17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	274	#ESTAY25
CONTRACT NO. 62A74				
ILLINOIS FED. AID PROJECT				