I-80 Noise Walls IDOT Job No. D-91-205-19 New Lenox, Will County, IL

Prepared for:

EXP US Services Inc. 205 North Michigan Avenue Suite 3600 Chicago, Illinois 60601

Prepared by:

Geo Services, Inc. 805 Amherst Court Suite 204 Naperville, Illinois 60565 (630) 305-9186



January 3, 2023 Revised: January 13, 2023 March 22, 2023





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Revised: March 22, 2023

EXP US Services Inc. 205 North Michigan Avenue, Suite 3600 Chicago, Illinois 60601-5924

Attn: Mr. Thomas Hough, P.E.,

Email: Thomas.Hough@exp.com

Job No. 20012

Re:

Noise Wall Geotechnical Report I-80

Contract No.: 62R29

IDOT Job Number D-91-205-19 New Lenox, Will County, Illinois

Dear Mr. Hough:

The following report presents the Phase II geotechnical analysis and recommendations for the construction of the proposed noise walls along I-80 corridor from Chicago St. to Route 30. Borings associated with the noise walls include a total of ninety-two (92) structure borings (NWB-001 through NWB-079 and alternate "A" boring locations). Borings were completed at the site by Geo Services, Inc. (GEO). Copies of these boring logs, along with soil profiles, are included in this report.

If there are any questions regarding the information submitted herein, please do not hesitate to contact us.

Very truly yours,

GEO SERVICES, Inc.

Nawras Alhadab Project Manager

enc.

Andrew J. Ptak, P.E.

Principal Engineer

2 (1/30/23

TABLE OF CONTENTS

SECTION 01: INTRODUCTION	2
SECTION 02: PROJECT DESCRIPTION	2
SECTION 03: SUBSURFACE INVESTIGATION PROCEDURES	<i></i> 3
SECTION 04: LAB TESTING PROGRAM	3
SECTION 05: SUBSURFACE & WATER TABLE CONDITIONS	4
SECTION 06: SEISMIC DATA	7
SECTION 07: GENERAL WALL RECOMMENDATIONS	7
SECTION 08: ANALYSIS & RECOMMENDATIONS	8
8.1 Bearing Capacity	8
8.2 Settlement	9
8.3 Lateral Soil Properties	9
SECTION 9: GENERAL CONSTRUCTION CONSIDERATIONS	12
SECTION 10: GENERAL QUALIFICATIONS	12

APPENDIX A - General Notes

APPENDIX B - Site Location Map

APPENDIX C – Boring Location Plan & Profile APPENDIX D – Boring Logs APPENDIX E – Laboratory Data

SECTION 01: INTRODUCTION

This report presents the results of the geotechnical investigation for the proposed Phase II noise walls along interstate highway I-80 as part of the I-80 from Chicago St. to Route 30 improvements, in Will County, IL. The results of associated noise wall borings completed by Geo Services Inc., along with general notes in Appendix A, site location map found in Appendix B, boring location plans and profiles found in Appendix C, boring logs found in Appendix D, lab data found in Appendix E, and TS&L drawings found in Appendix F are included in this report.

Proposed boring locations were selected by Geo Services, Inc. (GEO) and were reviewed and approved by EXP US Services, Inc. (EXP). Boring locations were laid out in the field by GEO personnel at the proposed locations. After review of utilities, the asdrilled locations are shown on the boring location plans found in Appendix C and on the boring logs located in Appendix D.

This report includes recommendations pertaining to the design and construction of the noise walls, a description of soil and groundwater conditions, general construction considerations for the site, site location map, boring location diagram, profiles and boring logs.

SECTION 02: PROJECT DESCRIPTION

The scope of work consists of providing Phase II engineering services for the proposed improvements include reconstruction and widening of I-80 from Chicago Street to US Route 30. This section of roadway begins in Joliet, IL and runs through unincorporated Will County and ends in New Lenox, IL.

As part of the I-80 reconstruction and widening project, (Job No. D-91-205-19), improvement includes proposed noise walls, retaining walls and bridge work. This report provides recommendations for the new noise walls along the widened I-80 corridor.

SECTION 03: SUBSURFACE INVESTIGATION PROCEDURES

The borings were performed during the time period from February 2022 to March 2022, with either an ATV-mounted drilling rig or truck-mounted drilling rig. Borings were advanced using hollow stem augers to completion, or using solid flight auger to 10-ft and using rotary methods to completion. Representative soil samples were obtained employing split spoon sampling procedures in accordance with AASHTO Method T-206 for the drilling rigs. Samples obtained in the field were returned to our laboratory for further examination and testing.

Split spoon sampling involves driving a 2.0-inch outside diameter split-barrel sampler into the soil with a 140-pound weight falling freely through a distance of 30 inches. Blow counts are recorded at 6" intervals and the blow counts are shown on the boring logs. The number of blows required to advance the sampler the last 12 inches is termed the Standard Penetration Resistance (N). The N value is an indication of the relative density of the soil.

Bedrock coring was performed by the dual tube method using NX size, 10 feet length core barrel seated approximately 2 feet into bedrock for the twenty (20) retaining wall soil borings chosen for rock core sampling. The full length of the boring was cased using 3-inch diameter casing which was seated approximately 6-in into bedrock to prevent cave-in of the boring while coring. Twenty (20) bedrock cores were obtained in 10 feet runs out of the ninety-two (92) borings at various noise wall locations along the I-80 corridor.

SECTION 04: LAB TESTING PROGRAM

The test procedures were performed in accordance with test procedures discussed in the IDOT Geotechnical Manual. All split-spoon samples obtained from the drilling operation were visually classified in the field. Cohesive samples were tested for unconfined compressive strength using an IDOT modified RIMAC test device and/or calibrated penetrometer in the field.

The soil testing program included performing water content, density and either unconfined compression and/or calibrated penetrometer tests on the cohesive samples recovered. These tests were performed upon representative portions of the samples obtained in the field. The results of the above testing, along with a visual classification of the material based upon both the Illinois textural classification and the AASHTO Soil Classification System, are indicated on the boring logs.

In addition to the regular lab testing program, Atterberg Limits (AASHTO T-89/90), Organic Content (AASHTO T267) and Particle Size Analysis (AASHTO T-88) or Grain Size Analysis (AASHTO T-311) tests were performed on select samples from the borings. The tests were performed upon a representative portion of the samples obtained in the field. The data obtained from testing can be found in Appendix E.

SECTION 05: SUBSURFACE & WATER TABLE CONDITIONS

Specific soil conditions encountered in the borings are shown on the boring logs in Appendix D. The following are descriptions for general soil and water table conditions for each noise wall.

Noise Wall B31

The borings associated with Noise Wall B31 include NWB-001 through NWB-011. Surficial soils consisted of approximately 12" of clayey topsoil or crushed stone. Below the surficial soils a thin layer of stiff silty clay was encountered to depths ranging from 1-5-ft. A layer of sand & gravel was encountered below the silty clay to depths of up to 9-ft. All borings encountered bedrock causing termination of boring at depths ranging from 3 to 10-ft below existing grade. All rock cores consist of Niagaran series dolomite with large amounts of fracturing and some rust staining.

The clay loam layer had moisture contents ranging from 17%-25% with an average of 21%, an SPT blow count ranging from 3-71 blows/ft with an average of 18 blows/ft, and a cohesion ranging from 1-2.75 tsf with an average of 1.7 tsf.

Ground water was not encountered during or after drilling above 10 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B30

The borings associated with Noise Wall B30 include NWB-012 through NWB-017. Surficial conditions consisted of approximately 10"-16" of asphalt. Below the surficial layer a layer of crushed stone was encountered to termination of boring at 2-7 feet depth. Bedrock was encountered at all borings from depths ranging from 2-7 feet below existing grade surface. All rock cores consist of Niagaran series dolomite with some amounts of fracturing and some rust staining.

Ground water was not encountered during or after drilling above 10 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B34

The borings associated with Noise Wall B34 include NWB-018A through NWB-037. Surficial soils consisted of approximately 12" of black topsoil or asphalt road. Below the surficial soils a layer of medium stiff to hard clay loam was encountered to depths of 20 to 25 feet below existing grade. Borings NWB-018 through NWB-026 had a pocket of

sand from depths of 20-25 feet. Borings NWB-027 through NWB-037 encountered bedrock at depths ranging from 16-20 feet below existing grade.

The clay loam layer had moisture contents ranging from 5%-50% with an average of 19%, an SPT blow count ranging from 4-50 blows/ft with an average of 18 blows/ft, and a cohesion ranging from 0.5-6.1 tsf with an average of 2.8 tsf.

Ground water was encountered during or directly after drilling at depths ranging from 5-20 feet below existing grade. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B35

The borings associated with Noise Wall B35 include NWB-038 through NWB-045. Surficial soils consisted of approximately 12-24 inches of topsoil. Below the surficial soils, interspersed layers of silty clay, silt, silty loam, clay loam and silty sand were encountered to termination of boring at 25 feet depth.

The cohesive clay layers had moisture contents ranging from 14%-30% with an average of 20%, an SPT blow count ranging from 5-16 blows/ft with an average of 10 blows/ft, and a cohesion ranging from 0.5-3.25 tsf with an average of 1.7 tsf.

Ground water was encountered during or directly after drilling at depths ranging from 7-8 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used below a depth of 10 feet. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B36

The borings associated with Noise Wall B36 include NWB-046 through NWB-050. Surficial soils consisted of approximately 5-30 inches of topsoil. Below the surficial soils a layer of stiff to hard clay loam was encountered to a depth of 23 feet below existing grade, and a layer of silty clay/silt from a depth of 23 feet to termination of boring at 25 feet depth.

The clay loam layer had moisture contents ranging from 17%-35% with an average of 23%, an SPT blow count ranging from 6-22 blows/ft with an average of 13 blows/ft, and a cohesion ranging from 1-4 tsf with an average of 2.3 tsf. The silt layer from depths of 23-25 feet had moisture contents ranging from 17%-25% with an average of 20% and an SPT blow count ranging from 6-18 blows/ft with an average of 10 blows/ft.

Ground water was encountered during or after drilling at depths ranging from 6-8 feet depth. Ground water levels cannot be determined directly due to wash-rotary drilling methods used below 10 feet depth. Coloration changes in the samples from brown and

gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B37

The borings associated with Noise Wall B37 include NWB-051 through NWB-065. Surficial soils consisted of approximately 12" of topsoil. Below the surficial soils a layer of stiff to hard clay loam was encountered to termination of boring at 25 feet depth.

The clay loam layer had moisture contents ranging from 12%-37% with an average of 20%, an SPT blow count ranging from 4-55 blows/ft with an average of 12 blows/ft, and a cohesion ranging from 0.5-6.4 tsf with an average of 2.5 tsf.

At the East end of the noise wall near borings NWB-063 through NWB-065 there was a layer of silty clay with a small pocket of organic silty clay from depths of 1-5 feet below existing grade after which the aforementioned clay loam was encountered to termination of boring at 25 feet depth. The silty clay had moisture contents ranging from 28%-37% with an average of 32%, and SPT blow count ranging from 4-11 blows/ft with an average of 7 blows/ft, and a cohesion ranging from 0.7-1.8 tsf with an average of 1.1 tsf.

Ground water was encountered during or after drilling at depths ranging from 7-12 feet. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-12 feet from the existing ground surface.

Noise Wall B38

The borings associated with Noise Wall B38 include NWB-066 through NWB-079. Surficial soils consisted of approximately 3"-12" of topsoil or 10-14 inches of concrete. Below the surficial soils a layer of stiff to hard clay loam was encountered to termination of boring at 15 feet depth or until termination at bedrock. Borings NWB-075A, NWB-076A, NWB-077A, NWB-078A, and NWB-079A encountered bedrock consisting of Niagaran series dolomite with some weathering, cracking, and rust staining.

The clay loam layer had moisture contents ranging from 4%-38% with an average of 18%, an SPT blow count ranging from 1-85 blows/ft with an average of 17 blows/ft, and a cohesion ranging from 0.5-4.5 tsf with an average of 2.4 tsf.

Ground water was not encountered during or after drilling above 10 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Bedrock

Bedrock cores were recovered from twenty (20) borings. Bedrock appeared to be of similar consistency throughout the borings which is classified as light gray to gray Silurian System, Niagaran Series Dolomite in all twenty (20) core runs. Furthermore,

rock core recovery ranged from 84% to 100%, with an average of 96.5%. Upon further analysis in our laboratory, RQD values varied greatly ranging from 5% to 94% (average RQD of 64%) see Table 2 in section 8.3. This is a poor rating of RQD, making this weathered rock with numerous weathered jointing.

SECTION 06: SEISMIC DATA

According to the AASHTO LRFD Bridge Design Specification 2020, the project site has a horizontal Response Spectral Acceleration Coefficient of 0.040 (S₁, AASHTO Figure: 3.10.2.1-3) at a period of 1.0 second and 5% critical dampening and 0.104 (S_s, AASHTO Figure: 3.10.2.1-2) at a period of 0.2 seconds and 5% critical dampening and a Site Class: C according to the soil conditions. The project site is considered to be in a low seismic area. Liquefiable layers and scour are not expected to impact the design of the new retaining walls. The following table contains a summary of the seismic data to be used for design:

Table 1 - Seismic Data

Description	Туре	Value
Long Term Horizontal Response Spectral Acceleration Coefficient (1.0 second period)	S ₁	0.040 g
Short Term Horizontal Response Spectral Acceleration Coefficient (0.2 second period)	Ss	0.104 g
Design seismic value at 1 second	S_{D1}	0.068 g
Design seismic value at 0.2 second	S _{Ds}	0.125 g
Seismic Performance Zone	-	1
Site Class	-	С

SECTION 07: GENERAL WALL RECOMMENDATIONS

For noise walls drill-in pile foundations are typically used and recommended at this site. Economic, construction and scheduling factors should be evaluated for the decision of retaining wall design. The following sections provide a discussion of wall types and recommendations as they relate to the noise wall construction.

SECTION 08: ANALYSIS & RECOMMENDATIONS

8.1 Bearing Capacity

Noise walls are to be supported by drill-in pile foundations. There should be no bearing capacity concerns. The following table and the tables found in section 8.3 can be used for design of the drill-in foundations. At each of the following borings a 10-ft rock core was taken the depths and elevations listed in Table 2.

Table 2- BEDROCK CORE SUMMARY

Boring	Top of Bedrock Elevation (ft)	Recovery (%)	RQD (%)	Compressive Strength (tsf)
NWB-001	532.10	99	51	624
NWB-003	560.70	95	70	698
NWB-004	560.80	97	47	523
NWB-005	561.20	96	44	608
NWB-006	557.40	100	49	596
NWB-007	558.40	99	73	501
NWB-008	562.20	84	60	629
NWB-009	570.90	93	68	616
NWB-010	565.60	98	62	427
NWB-012	553.00	100	82	655
NWB-013	545.50	99	91	691
NWB-014	546.70	97	80	652
NWB-015	552.70	99	89	552
NWB-016	555.60	94	70	634
NWB-017	557.80	98	77	278
NWB-075A	640.30	100	4	320
NWB-076A	636.60	84	33	543

NWB-077A	632.80	100	94	418
NWB-078A	627.50	99	81	468
NWB-079A	629.3	100	59	598

8.2 Settlement

Noise walls are typically lightly loaded vertically. As such, settlement should be negligible regardless of the foundation type chosen to support the noise walls.

8.3 Lateral Soil Properties

In the following tables are summaries of lateral soil parameters to be used for design of the noise walls.

Table 3 – Soil Parameters for Lateral Resistance (NW-B31, NWB-001 through NWB-011)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Hard CLAY LOAM & SILTY CLAY	125	28	1667	0	0
SAND & GRAVEL	130	32	-	32	0
CRUSHED STONE	130	33	-	33	0

Table 4 – Soil Parameters for Lateral Resistance (NW-B30, NWB-0012 through NWB-017)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Very Stiff CLAY LOAM	125	28	2,000	0	0
CRUSHED STONE	130	33	-	33	0

Table 5 – Soil Parameters for Lateral Resistance (NW-B34, NWB-018A through NWB-037)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Medium Stiff to Hard CLAY LOAM & SILTY CLAY	125	28	2800	0	0
SILTY SAND	130	31	-	31	0

Table 6 – Soil Parameters for Lateral Resistance (NW-B35, NWB-038 through NWB-045)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff SILTY CLAY	125	27	1,300	0	0
Stiff CLAY LOAM	125	27	3,300	0	0
SILTY SAND	130	31	-	31	0
SAND	130	32	-	32	0
SANDY LOAM	130	30	-	30	0

Table 7 – Soil Parameters for Lateral Resistance (NW-B36, NWB-046 through NWB-050)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Very Stiff CLAY LOAM & SILTY CLAY	125	28	2300	0	0
Loose to Medium Dense SILT	130	30	-	30	0

Table 8 – Soil Parameters for Lateral Resistance (NW-B37, NWB-051 through NWB-065)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Very Stiff CLAY LOAM	125	28	2500	0	0
Medium Stiff SILTY CLAY	125	27	1300	27	0

Table 9 – Soil Parameters for Lateral Resistance (NW-B38, NWB-066 through NWB-079)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Hard CLAY LOAM	125	29	2500	0	0.
Medium Stiff to Stiff SILTY CLAY LOAM	125	27	1250	0	0
CRUSHED STONE	130	33	-	33	0
SILTY& SILTY SAND	130	31	-	31	0

Allowances should be made for any surcharge loads adjacent to the retaining structure. Proper drainage should be provided behind the walls. For the long-term active case (permanent case), cohesion in the clay layers should be ignored and the effective stress condition (drained friction angle) should be used. For the long-term passive case, the undrained cohesion should be used at undisturbed depths below the frost line (greater than 4 feet below the ground line).

SECTION 9: GENERAL CONSTRUCTION CONSIDERATIONS

If excavation for the proposed improvements are in excess of 4 feet, we recommend slopes be in accordance with OSHA safety standards and requirements for temporary side slopes. Movement of adjacent soils near the edge of and into excavation areas should be prevented. All excavations should be performed in accordance with the latest Occupational Safety and Health Administration (OSHA) requirements. Allowances should be made for any surcharge loads adjacent to the excavation areas.

Borings indicate that the water table will be located within clay soils and it is expected that ground water can be controlled with sump pump and pit procedures for most of the walls. Due to excavation above the water table, dewatering will likely be unneeded. In the event of any water, sump pump and pit procedures are likely to control water infiltration, and are recommended to keep the construction site dry.

SECTION 10: GENERAL QUALIFICATIONS

The analysis and recommendations presented in this report are based upon the data obtained from the soil borings performed at the indicated locations and from any other information discussed in this report. This report does not reflect any variations that may occur between borings or across the site. In addition, the soil samples cannot be relied on to accurately reflect the strata variations that usually exist between sampling locations. The nature and extent of such variations may not become evident until construction. If variations appear evident, it will be necessary to reevaluate the recommendations of the report. In addition, it is recommended that Geo Services Inc. be retained to perform construction observation and thereby provide a complete professional geotechnical engineering service through the observational method.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No other warranties, either expressed or implied, are intended or made. In the event that any changes in the nature, design or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report modified or verified in writing by the geotechnical engineer. Also note that Geo Services Inc. is not responsible for any claims, damages, or liability associated with any other party's interpretation of this report's subsurface data or reuse of the report's subsurface data or engineering analyses without the express written authorization of Geo Services Inc.

APPENDIX A GENERAL NOTES

GENERAL NOTES

CLASSIFICATION

American Association of State Highway & Transportation Officials (AASHTO) System used for soil classification.

\sim 1		1	O - 11 -
Cor	nesion	1229	Solis
001	1001011		

Relative	No. of Blows	<u>TERMINOLOGY</u>
<u>Density</u>	per foot N	
		Streaks are considered to be paper thick.
Very Loose	0 to 4	Lenses are considered to be less than 2
Loose	4 to 10	inches thick. Layers are considered to
Medium Dense	10 to 30	be less than 6 inches thick. Stratum are
Dense	30 to 50	considered to be greater than 6 inches thick.
Very Dense	Over 50	•

Cohesive Soils

Very Stiff

Hard

Consistency	Unconfined Compressive Strength - qu (tsf)
Very Soft Soft	Less than 0.25 0.25 - 0.5
Medium Stiff	0.5 - 1.0
Stiff	10 - 20

2.0 - 4.0

Over 4.0

DRILLING AND SAMPLING SYMBOLS

SS:	Split Spoon 1-3/8" I.D., 2" O.D.	HS:	Housel Sampler
ST:	Shelby Tube 2" O.D., except where noted	WS:	Wash Sample
AS:	Auger Sample	FT:	Fish Tail
DB:	Diamond Bit - NX: BX: AX	RB:	Rock Bit
CB:	Carboloy Bit - NX: BX: AX	WO:	Wash Out
OS:	Osterberg Sampler		

Standard "N" Penetration: Blows per foot of a 140 lb. hammer falling 30" on a 2" O.D. Split Spoon

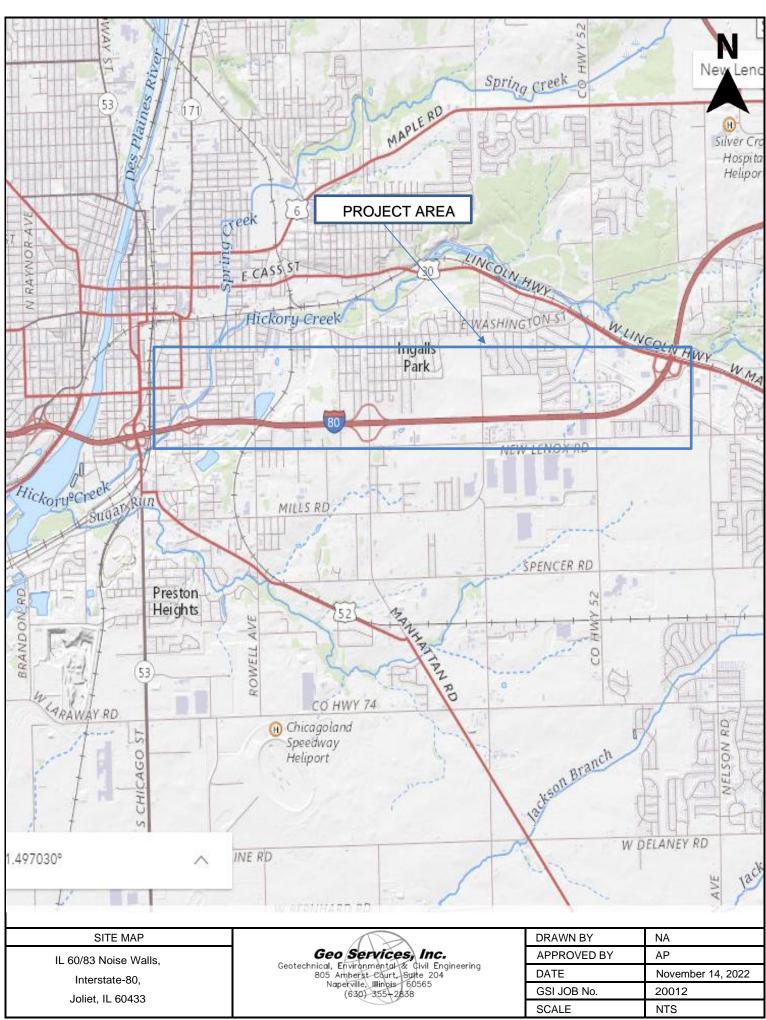
WATER LEVEL MEASUREMENT SYMBOLS

VVL:	vvater	WD:	while Drilling
WCI:	Wet Cave In	BCR:	Before Casing Removal
DCI:	Dry Cave In	ACR:	After Casing Removal
WS:	While sampling	AB:	After Boring

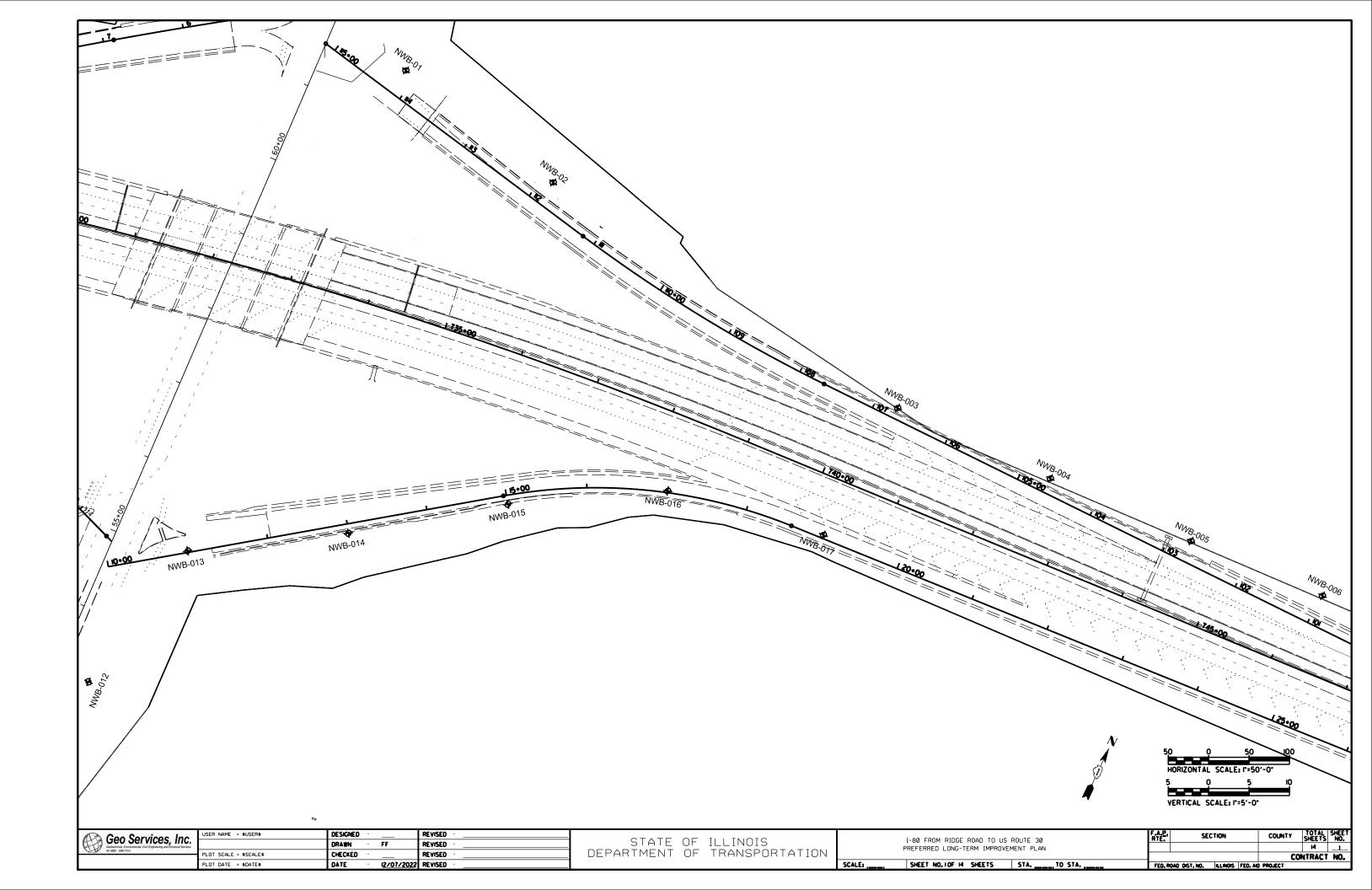
Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable ground water levels. In impervious soils, the accurate determination of ground water elevations is not possible in even several days observation, and additional evidence on ground water elevations must be sought.

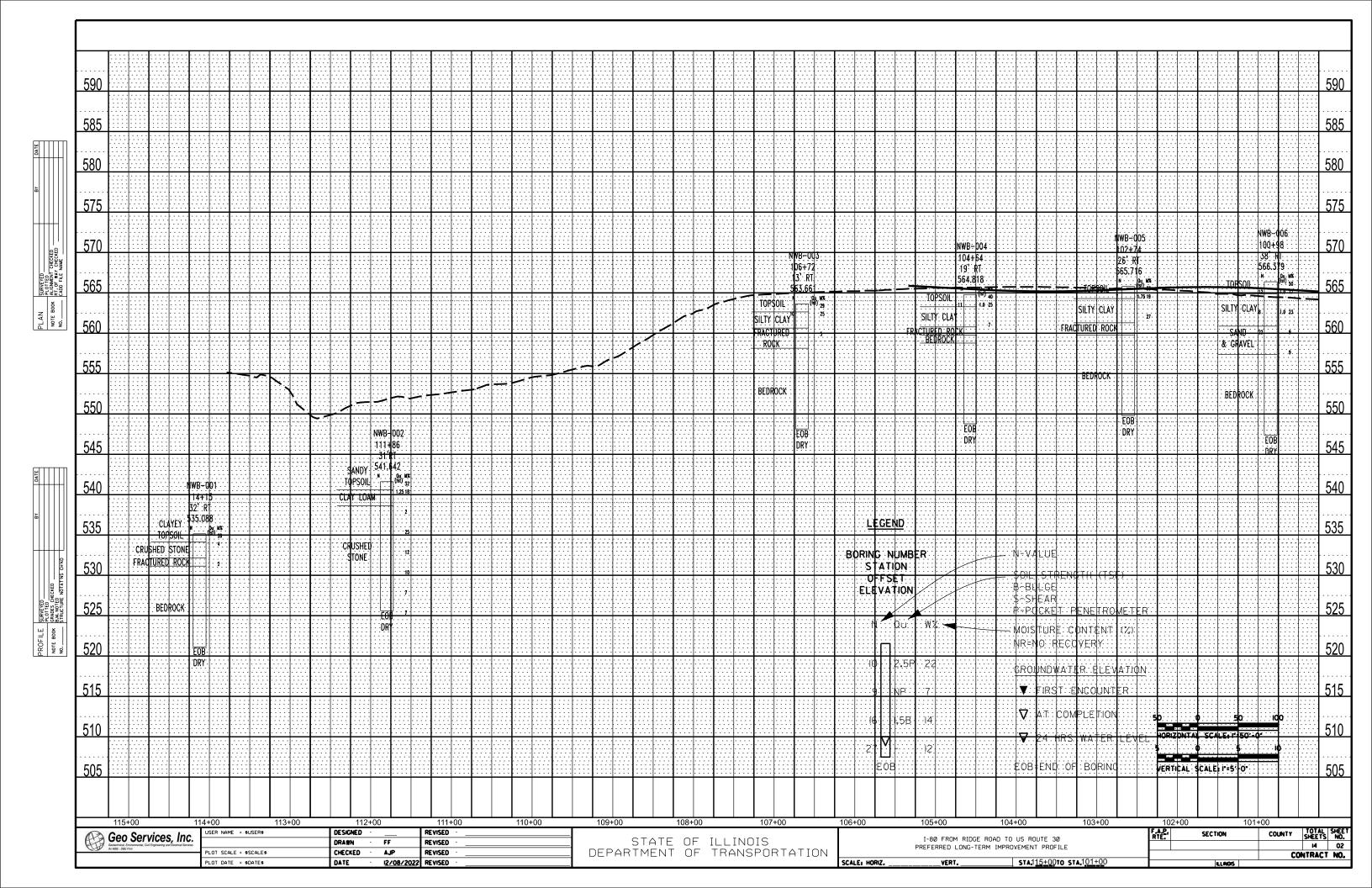
APPENDIX "

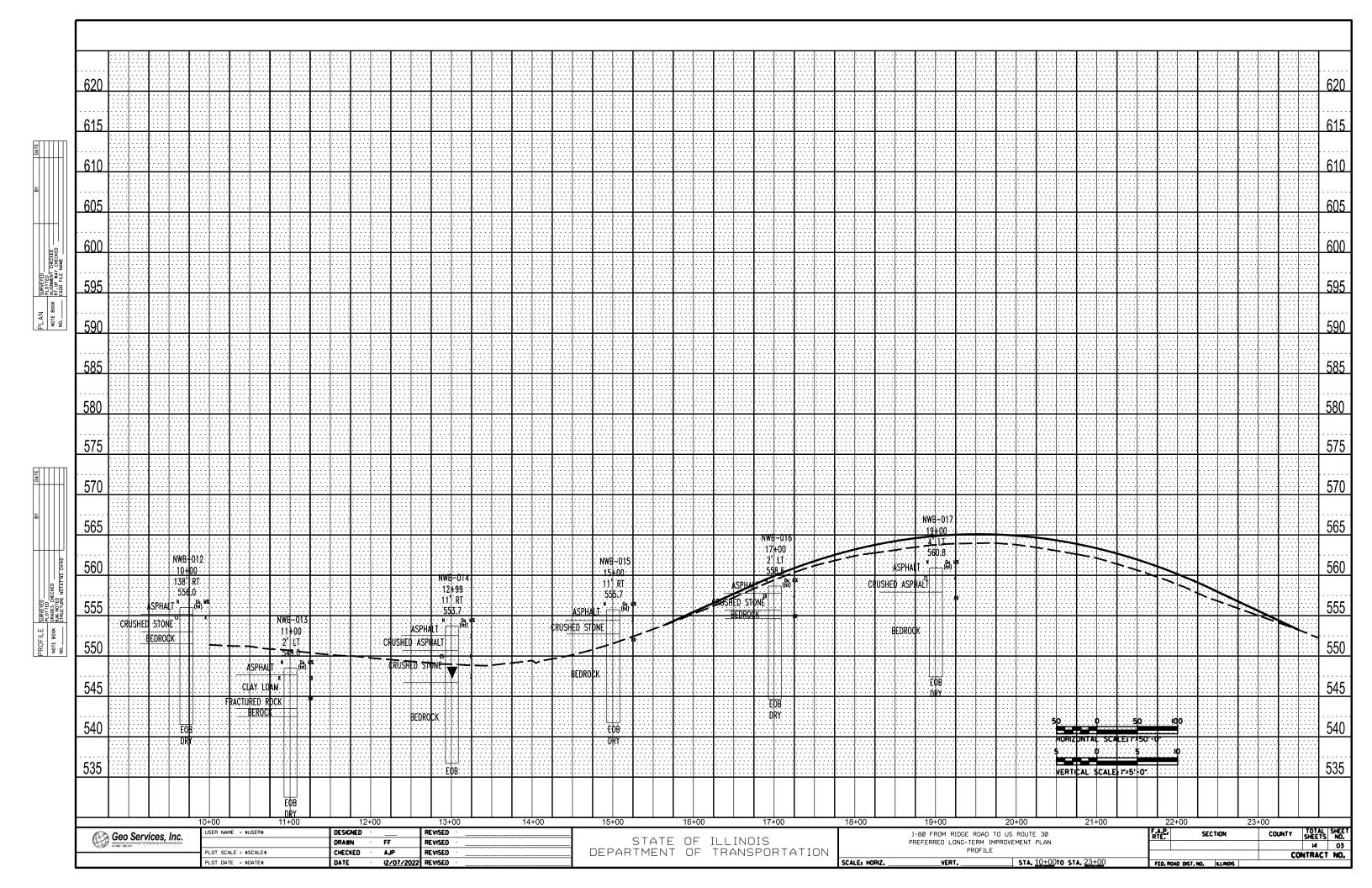
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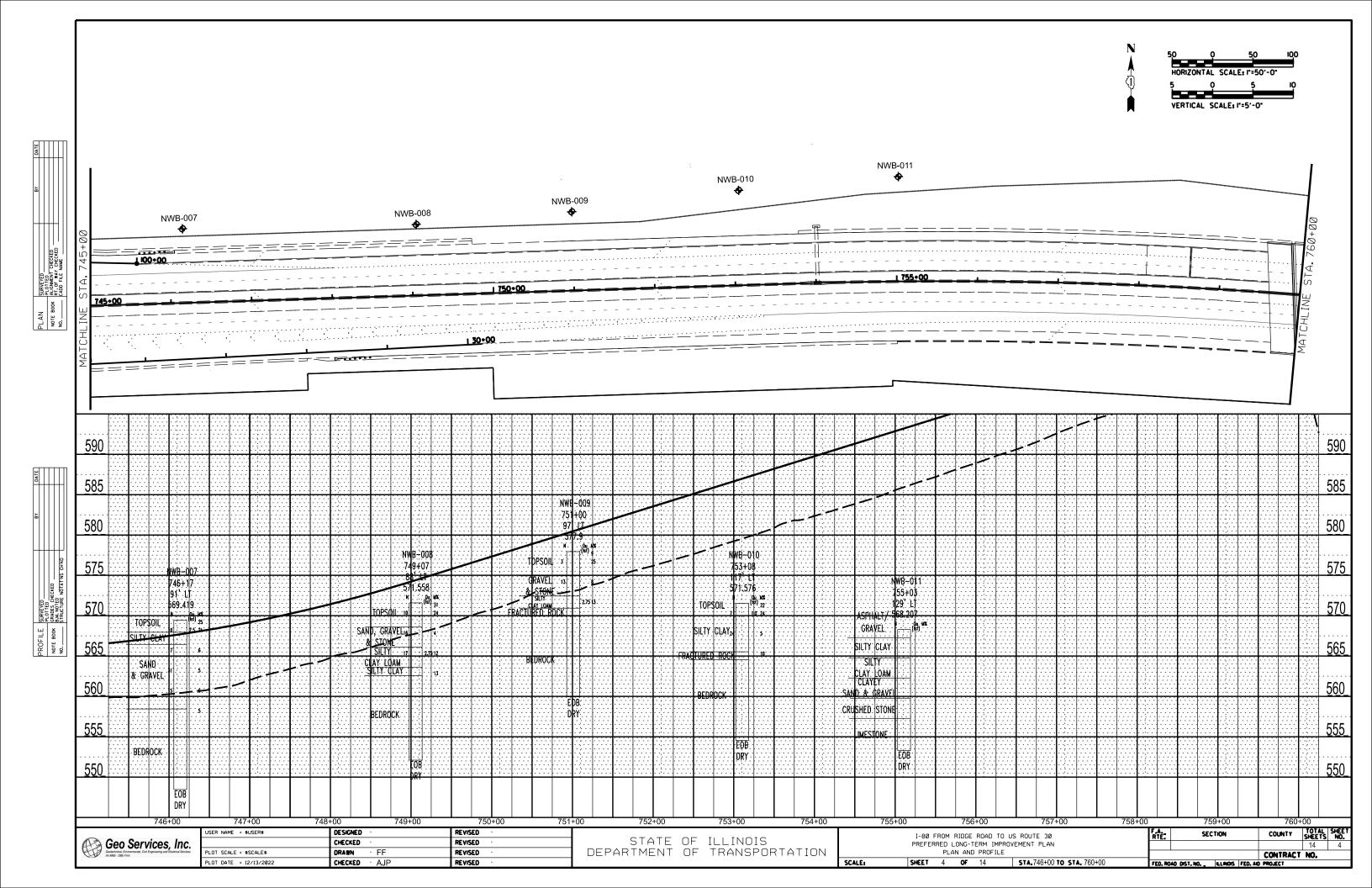


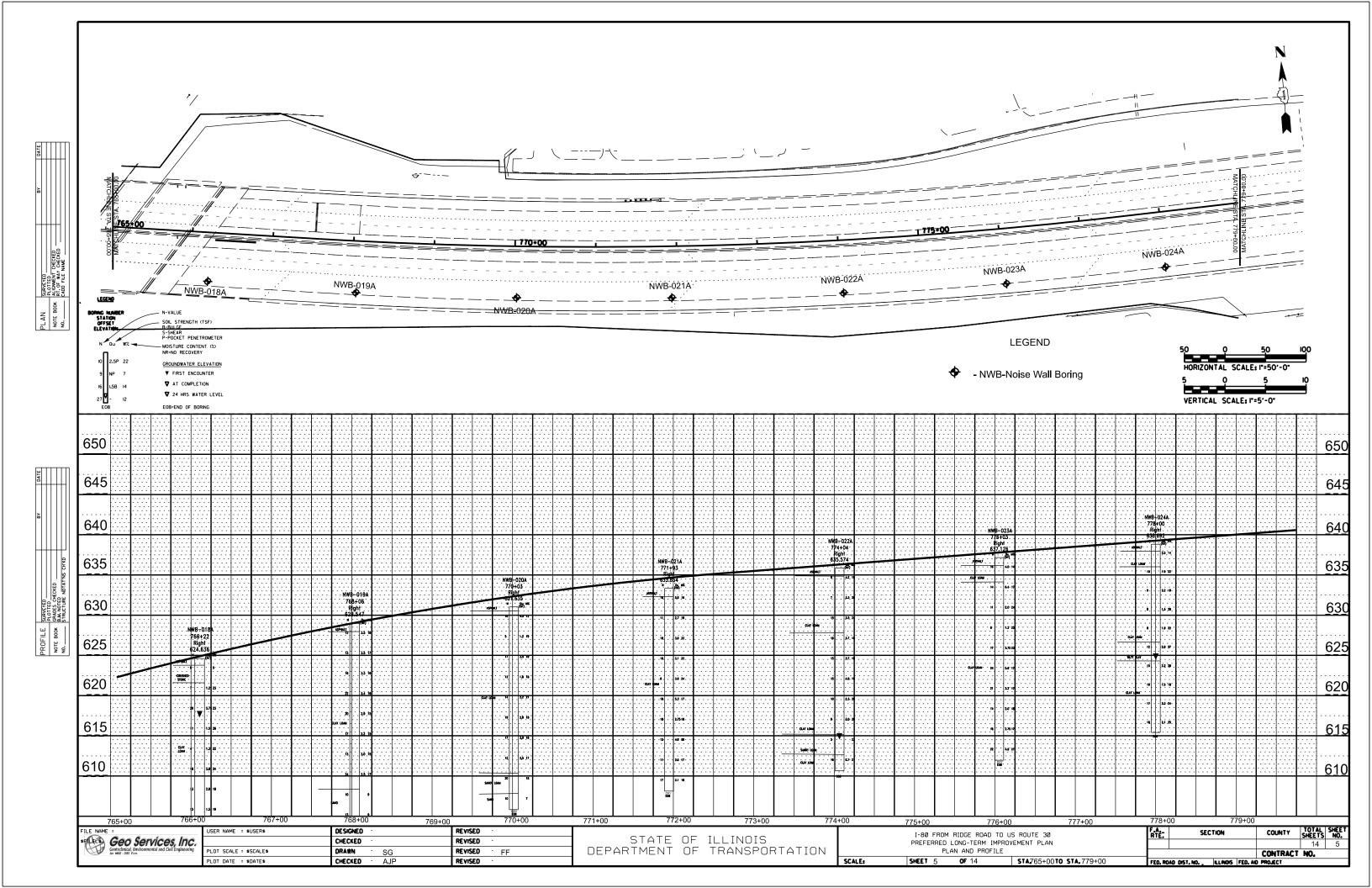
APPENDIX C PLAN & PROFILE

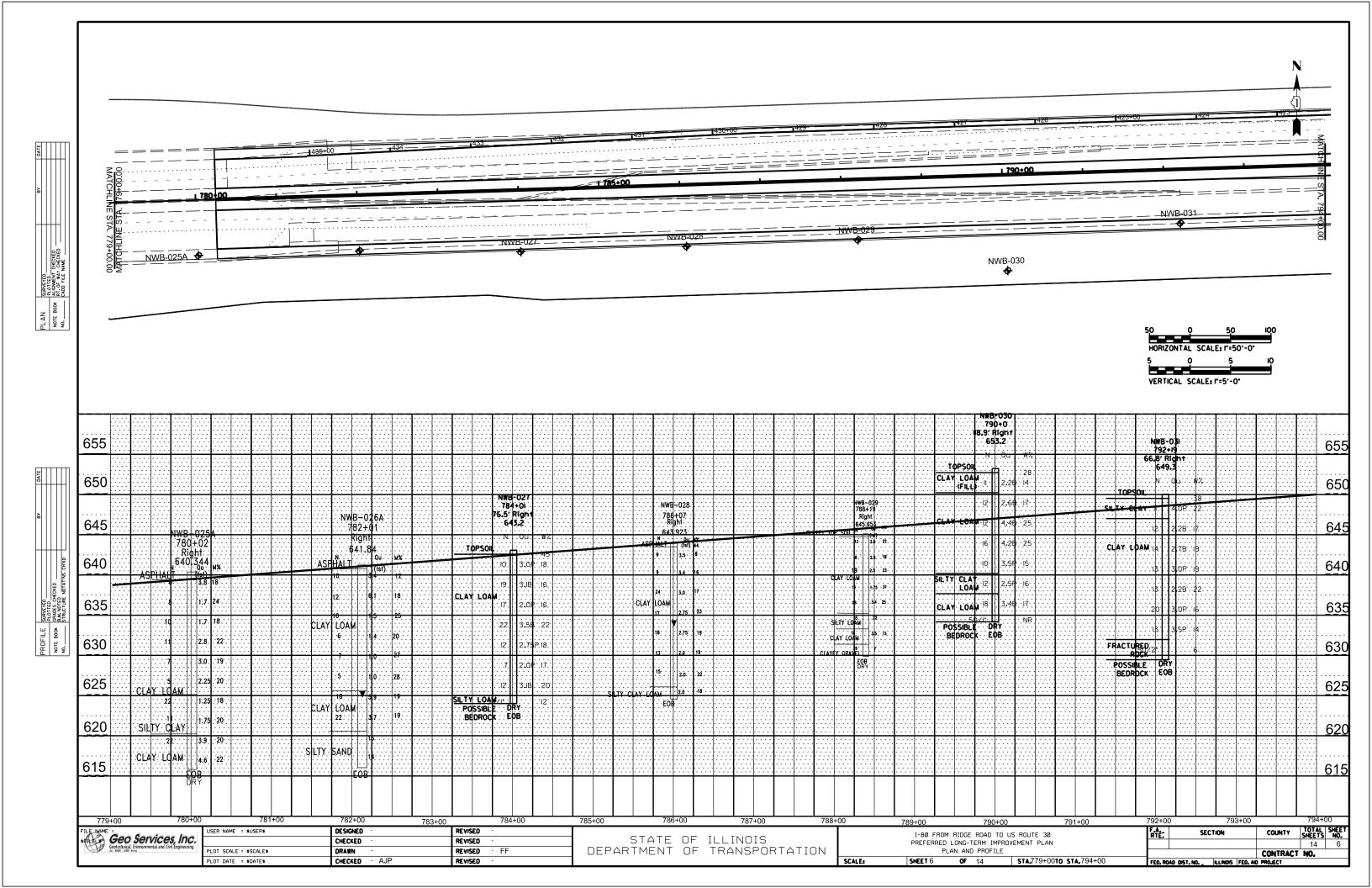


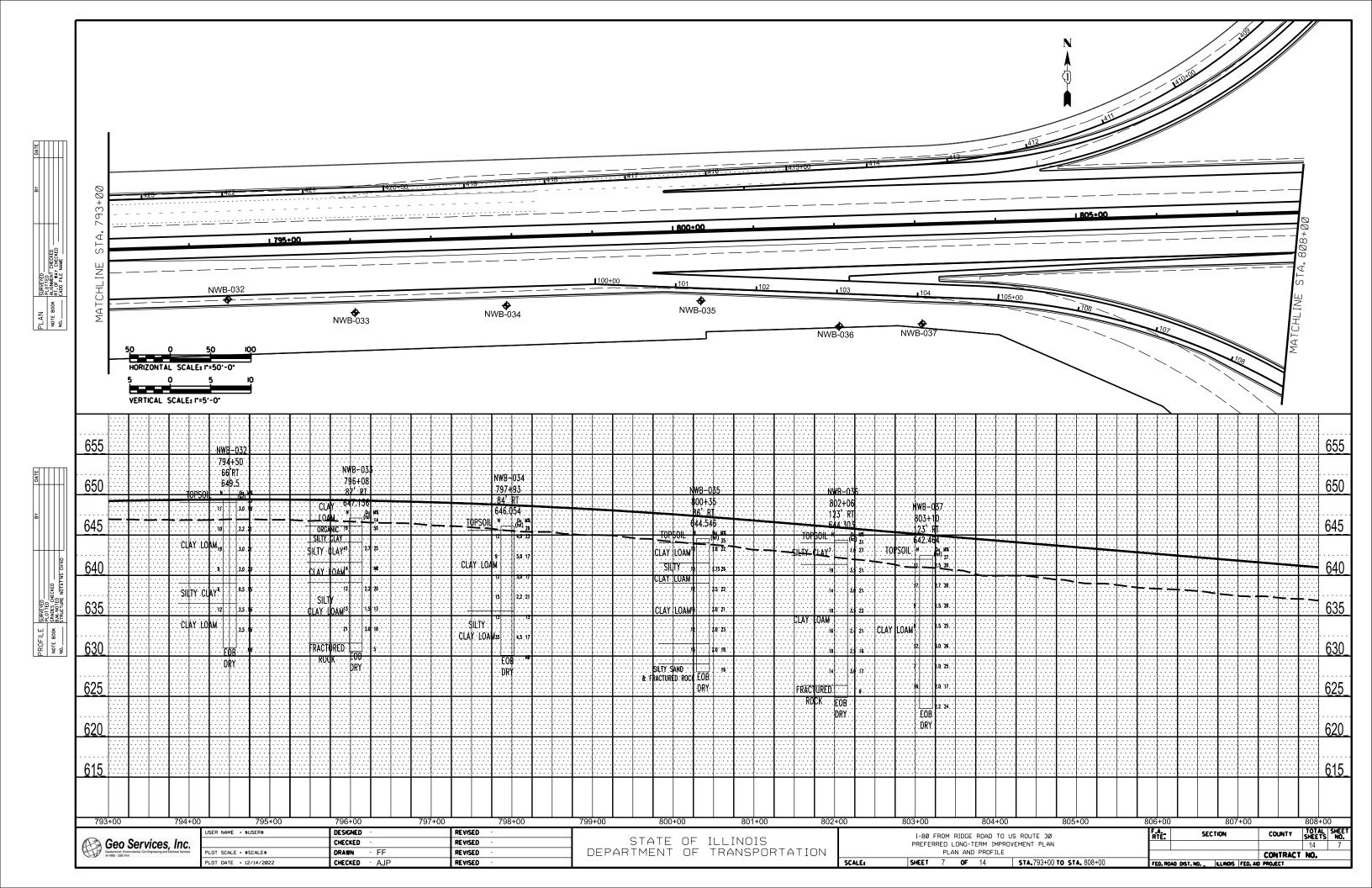


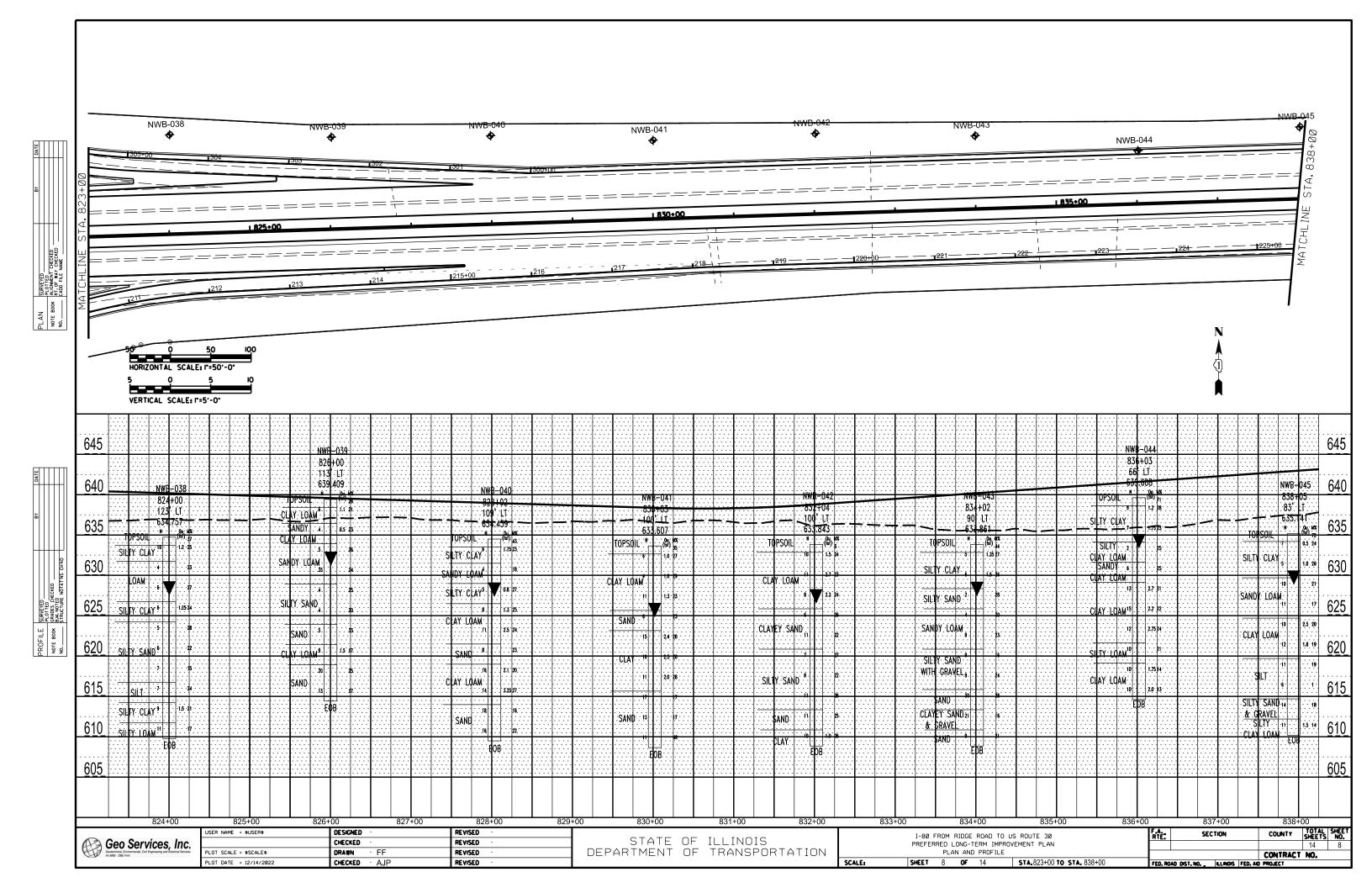


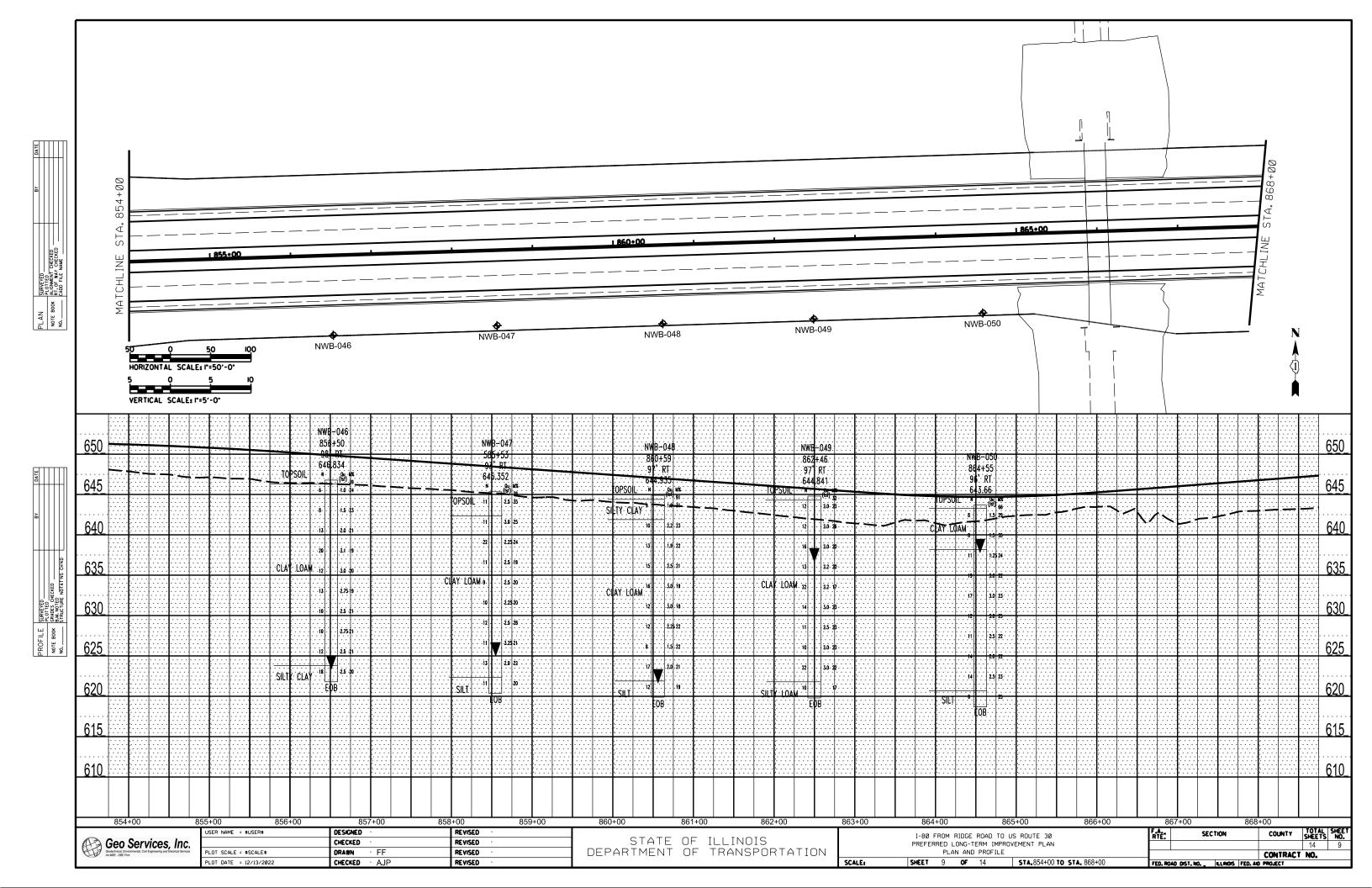


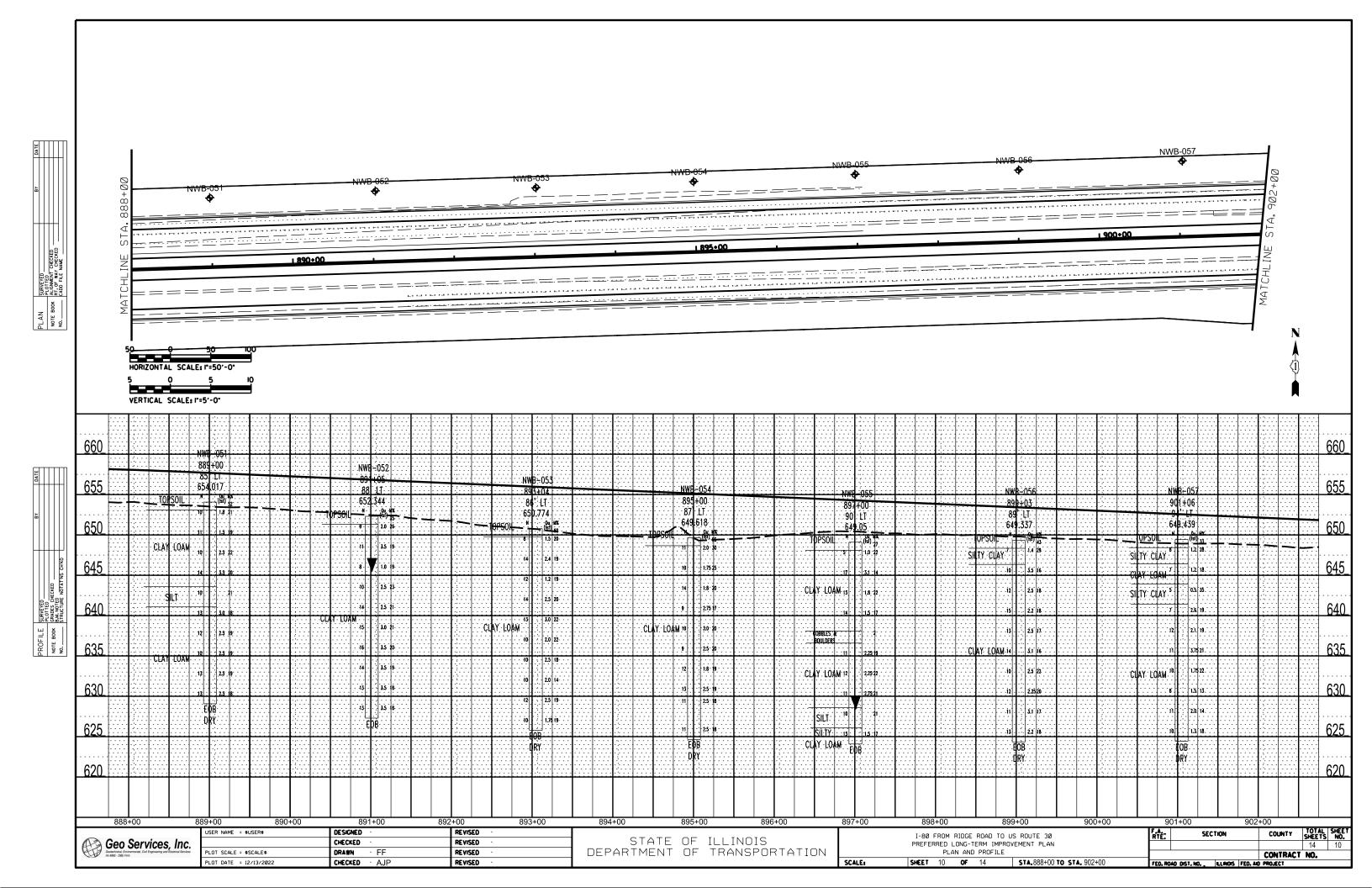


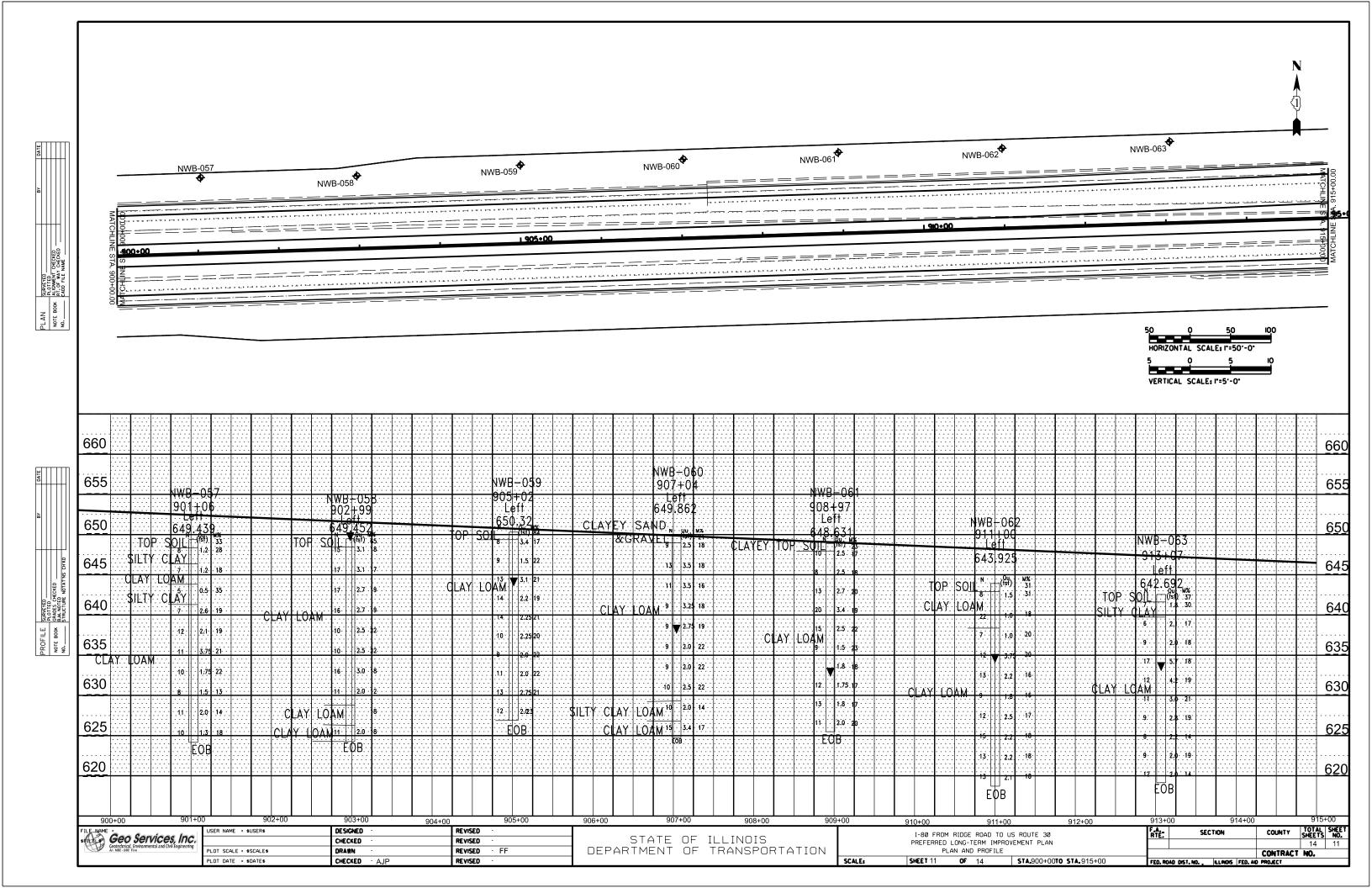


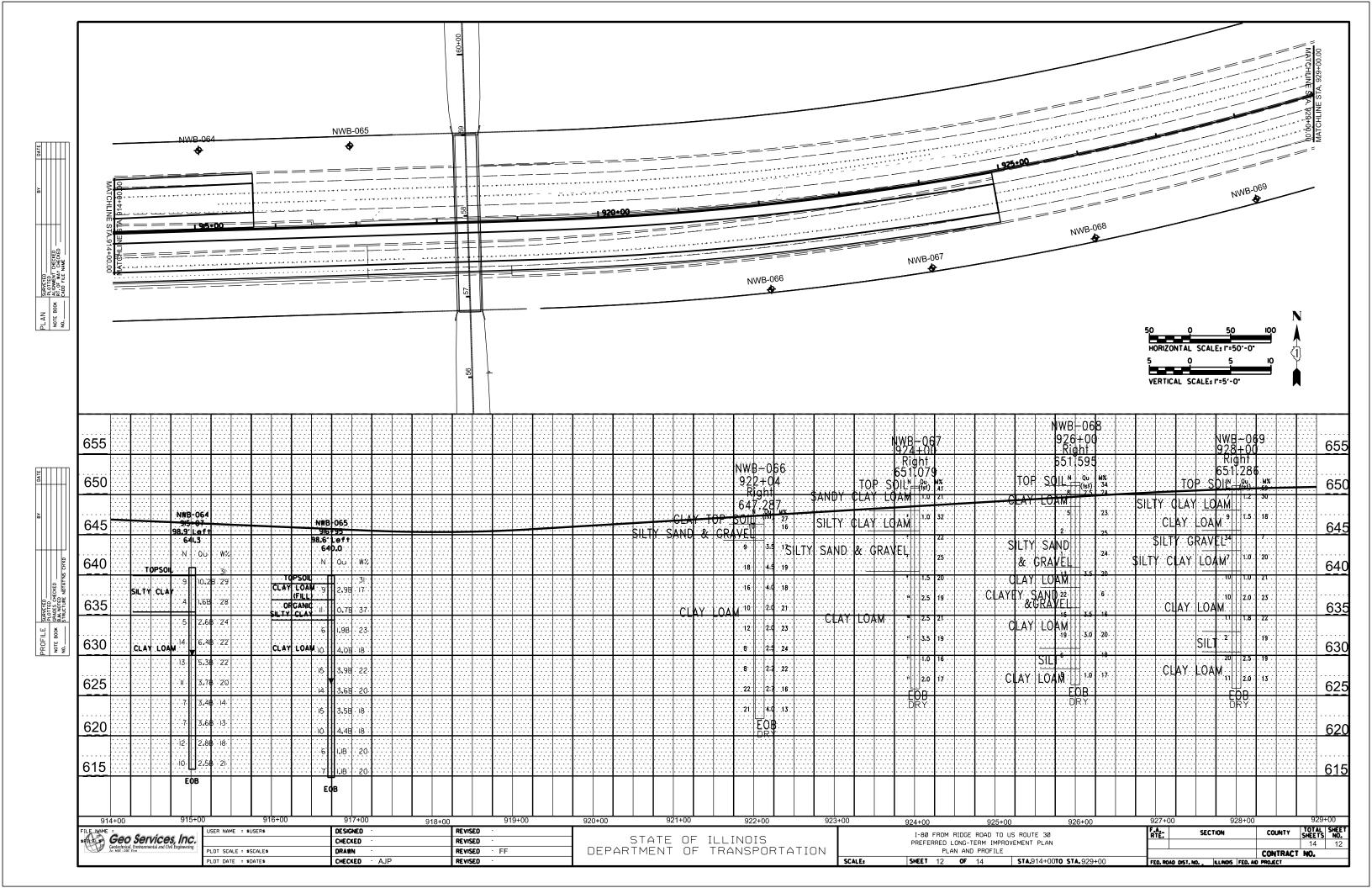


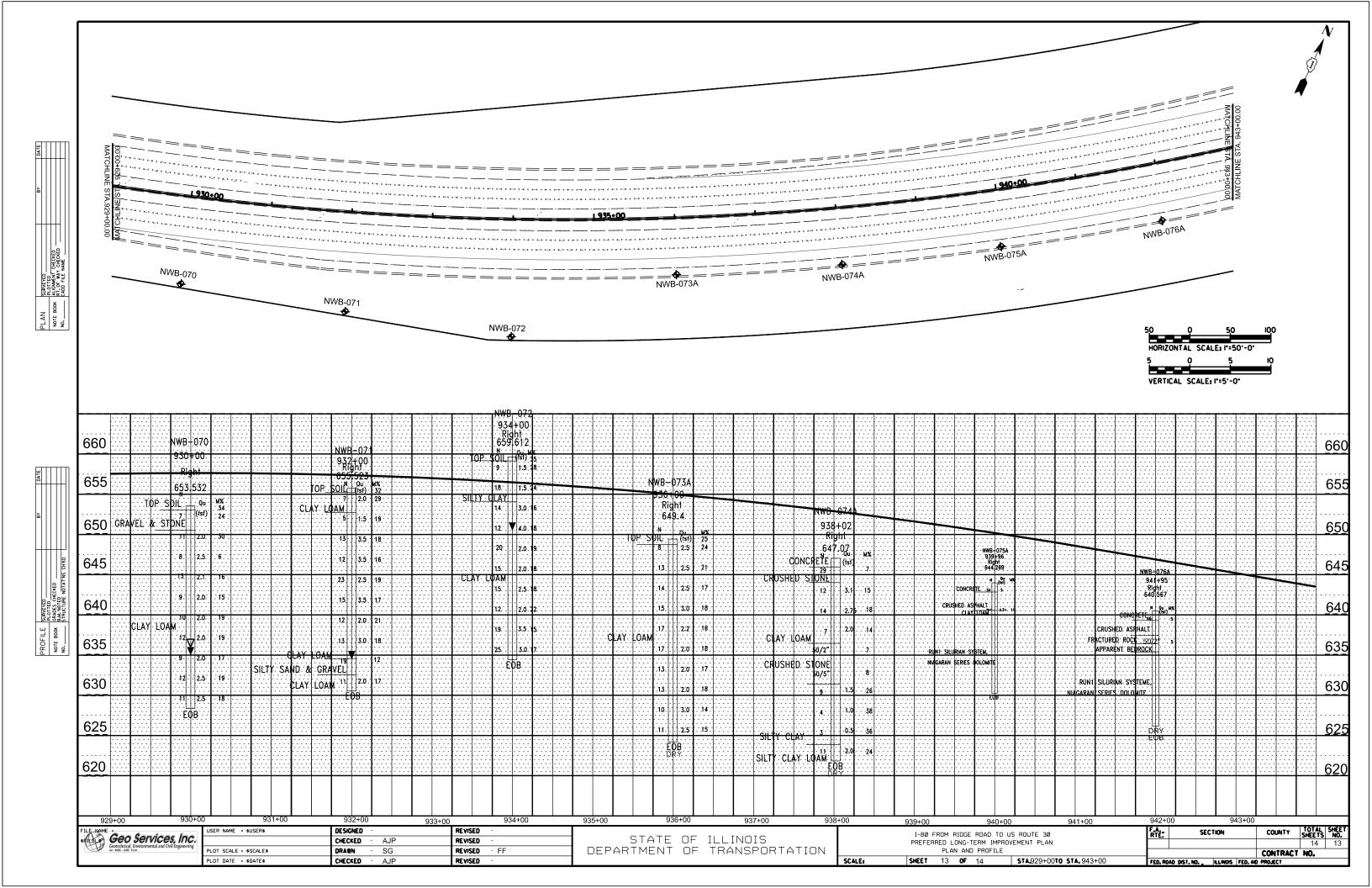


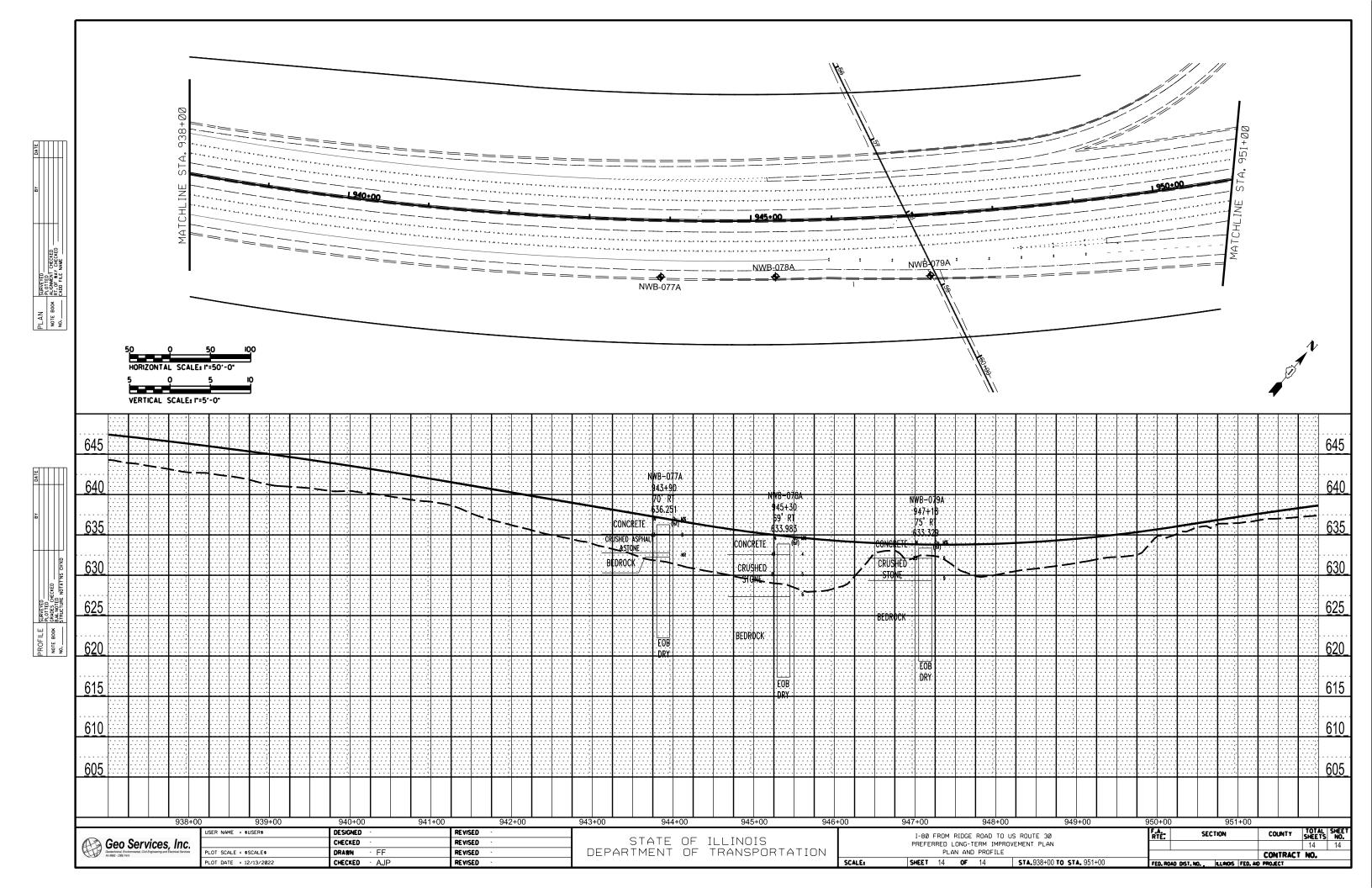












<u>APPENDIX)</u>



SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

	Route 30			١	I-80 Phase II			LOGGED BY _	DJ	
SECTION _	15	LOCATION S			ION _	SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3 Northing 1765542.465, Easting 1055645.4			РМ,	
COUNTY _	Will D	RILLING	ME	THOD			Stem Auger/Rotary			matic
). <u>-</u>		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft		
Station Offset	NWB-001 114+15 32.9 ft Right face Elev. 535.09		T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Upon Completion _	Dryft ft ft		
	PSOIL-brown & blac	K				28				
CRUSHED S	STONE-very dense	534.09	_	6 21 50/4"		4				
FRACTURE	D ROCK-very dense	532.09	_	50/1"		2				
Borehole corcoring.	ntinued with rock		-10 -15 -15 -15							

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

ROUTE	Chicago Street to US Route 30	DESCRIPTION		I-80 Phase	e II		1.0	GGFF) BY	DJ
SECTION _	15	LOCATION	SW 1/4, SEC Northing 17	. 15, 144P. 65542.465,	Easting 1	055645.	475	,		
COUNTY _	Will COR	ING METHOD Rot	ary Wash				R	R	CORE	S
STRUCT NO	n -	CORING BARRE	I TYPE & SIZI		ouble	_ _	С		T	R
Station _	O			_	<u> </u>	D C E O	0 V	Q	I M	E N
BODING NO)NWB-001	Core Diameter Top of Rock Ele		in 9 ft		P R	E	D	E	G
Station	114+15	Begin Core Ele				T E	R			T H
Offset	32.9 ft Right	- 44				(ft) (#)		(%)	(min/ft)	
RUN 1 (-4.0	rface Elev. 535.09	_ π			531.09	1	99	51	(111111/11)	624.00
Light gray & horizontal fr	porous with horizontal be actures throughout with la	edding.Some rust stai arge chert nodules.	ining to -9.2'. N	Numerous	- - -	-5 —				
					-	-10				
					-					
					_					
					521.09					
End Of Bori End of Borir	ng @ -14.0'. Boring backf	illed with cuttings.				45				
End of Born	·9				-	-15				
					_					
					-					
					_					
					_					
					-	-20				
					_					
						\dashv				
					-					
					_					

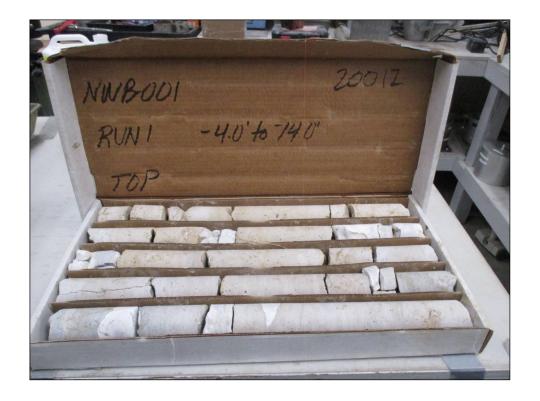
Color pictures of the cores	Yes	
Cores will be stored for exam	nination until 5 v	rs after const

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

ROUTE _	Chicago Street to US Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY _	DJ
SECTION	15	LOCATION	SW 1/4, SEC. 15, TWP. T35N, RNG. R308 Northing 1765542.465, Easting 105564		
COUNTY	Will COR	ING METHOD Rot	ary Wash		
OTPLICT N	10		NX Double		
STRUCT. N Station	IO. <u>-</u>	_ CORING BARREI			
_		Core Diameter	2 in		
BORING NO	O. NWB-001	Top of Rock Ele	ev. <u>531.09</u> ft		
Station	114+15	Begin Core Ele	v. <u>531.09</u> ft		
Offset	32.9 ft Right	_			
Ground S	urface Elev. 535.09	_ ft			





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

ROUTE Chicago Street to U	JS D I	ESCR	RIPTIO	N		I-80 Phase II		LOGGED BY _	DJ
SECTION15			LOCA	TION	SW 1/	4, SEC. 15, TWP. T35N ing 1765493.879, Eas	I, RNG. R30E, 3 rd I	PM,	
COUNTY Will	DRILLIN	G ME	THOD			Stem Auger/Rotary			matic
STRUCT. NO		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a n/a ft		
BORING NO. NWB-002 Station 111+86 Offset 31 ft Right Ground Surface Elev. 541		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.			
SANDY TOPSOIL-black									
CLAY LOAM-brown spotted black-stiff (Fill)	540.6	4 	50/1'	1.25	18				
	538.6	4 _		Р					
CRUSHED STONE-very dense			50/3'	•					
		-5	5		2				
		_	5 50/2'	•	25				
					20				
		_	21 50/1'	•	12				
		10	_						
		_	18 50/2'	<u> </u>	10				
		_							
		-15	50/3'		7				
Auger Refusal @ -16.0'. Possib	525.6	4	50/1'	•	7				
Bedrock. End Of Boring. Boring backfilled with cuttings.									



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

DES	CRI	PTION	ı		I-80 Phase II	L0	OGGED BY _	DJ
	_ L	OCAT	ION _	SE 1/4	, SEC. 15, TWP. T35N	l, RNG. R30E, 3 rd PM	,	
DRILLING	MET	ГНОD					CME Auto	matic
	D E P	B L O	U C S	M O I		n/a ft n/a ft		
<u>t</u>	Н	S	Qu	Т	First Encounter Upon Completion	<u>n/a</u> ft		
66 ft	(ft) ((/6")	(tsf)	(%)	After Hrs.	ft		
562.66	-			29				
		2						
	\dashv	4		25				
_		6						
560.66	\dashv							
		50/4"						
-				5				
	-5							
558.16			_					
558.16								
	DRILLING	DRILLING MET DEPTH It .666 ft (ft) 562.66 560.66 See	DRILLING METHOD	LOCATION	LOCATION SE 1/4 North Hollow	DRILLING METHOD	LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3" PM Northing 1765421.208, Easting 1056372.897 Hollow Stem Auger/Rotary HAMMER TYPE	LOCATION SE 1/4, SEC. 15, TWP, T35N, RNG. R30E, 3" PM, Northing 1765421.208, Easting 1056372.897 Hollow Stem Auger/Rotary HAMMER TYPE CME Auto Stem Auger/Rotary HAMER TYPE CME Auto Stem Auger/Rotary HAMMER TYPE CME Auto Stem Auger/Rotary HAMMER TYPE CME Auto Stem Auger/Rotary HAMER TYPE CME Auto Stem Auger/Rotary HAMER TYPE CME Auto Stem

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	Chicago Street to US Route 30	DESCRIPTION	I-	80 Phase II		10	GGF) BY	DJ
								, -	
SECTION _	15	LOCATION	Northing 1765	5, TWP. T35N, RN 421.208, Easting	6. R30E 105637	, 3°° РМ , 2.8 <u>97</u>			
COUNTY _	Will COR	RING METHOD Rot	tary Wash			R E	R	CORE	S
STRUCT N	0 -	CORING BARRE	I TYPE & SIZE	NX Double		— с		Т	R
Station _	O				- D C		Q	l M	E N
BODING NO	D. NWB-003	Core Diameter Top of Rock El			PF	R E	D	E	G
Station _	106+72	Begin Core Ele			H	E R			T H
Offset	13.7 ft Right				(ft) (i		(%)	(min/ft)	
RUN 1 (-5.5	urface Elev563.66	_ π		558.16		95	70	(1111111111)	698.00
SILURIÁN	SYSTEM, NIAGARAN SE				' 	95	10		090.00
Light gray &	fine grained with horizor Some rust staining to -9.	ntal bedding. Numeroเ 2'.	us horizontal frac	tures					
anougnous	come ruet etaining to c.				_				
					-10				
					-10				
					-				
					_				
					-15				
End Of Bori	ng @ -15.5'. Boring back	filled with cuttings.		548.16	-				
End of Borir		· ·							
					-20				
					-25				
					-25				

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY	DJ
KOUIE _	Noute 30	DESCRIPTION	I-OU FIIASE II	LOGGED BY _	
SECTION	15		E 1/4, SEC. 15, TWP. T35N, RNG. R lorthing 1765421.208, Easting 105		
COUNTY _	Will COR		/ Wash		
			NX Double		
STRUCT. N	O	CORING BARREL 1	TYPE & SIZE Swivel-10 ft		
Station	-	_			
		Core Diameter	2 in		
BORING NO	o. NWB-003	Top of Rock Elev	<u> </u>		
Station	106+72	Begin Core Elev.	558.16 ft		
Offset	13.7 ft Right	-			
Ground St	urface Elev. 563.66	ft			





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	Route 30	DES	SCR	IPTIO	ا		I-80 Phase II		LO	GGED BY $_$	DJ
SECTION	15		_ I	LOCA	TION _	SE 1/4	, SEC . 15, TWP . T35N	I, RNG. R30E,	3 rd PM ,		
COUNTY	Will D	RILLING	ME	THOD			ing 1765421.961, Eas Stem Auger/Rotary	-		CME Auto	matic
STRUCT. NO Station	-		D E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.	n/a n/a	ft ft		
Station Offset	NWB-004 104+64 19 ft Right e Elev. 564.82		T H	W S (/6")	Qu (tsf)	S T	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry n/a	ft		
TOPSOIL-black					, ,						
			_			40					
		563.32		2							
SILTY CLAY-dar black-stiff (Fill)	k brown &			6 5	1.00 P	25					
		560.82	_	26							
FRACTURED R	OCK-very dense	559.82	-5	50/1"		7					
Drillers Observat Bedrock	tion: Apparent	558.82									
Borehole continucoring.			-10 -10 -15 -15								

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	hicago Street to US Route 30	DESCRIPTION	1_8	t∩ Phase II		10	GGED	BY	DJ
							OOLD	, D	
SECTION	15	LOCATION	SE 1/4, SEC . 15 Northing 17654	, TWP. T35N, RN 0 121.961, Easting	3. R30E, 3 1056580.	3 ^{ra} PM , 857			
COUNTY	Will COR	ING METHOD Rot				R		CORE	S
				NX Double		E	R	Т	T R
STRUCT. NO.	-	_ CORING BARRE	L TYPE & SIZE _	Swivel-10 ft	D C	0	Q	ı	E
		Core Diameter			E O	V E	D D	M E	N G
BORING NO.	NWB-004 104+64	Top of Rock El Begin Core Ele			TE	R		_	Т
Offset	19 ft Right				Н	Υ			Н
	ace Elev. 564.82	_ _ ft			(ft) (#)	(%)	(%)	(min/ft)	(tsf)
Light gray & fir throughout.	o -16.0') STEM, NIAGARAN SEne grained with horizon	tal bedding. Numero	us horizontal fract	558.82 ures 548.82		97	47		523.00
					-25				

Color pictures of the cores	Yes	
Cores will be stored for exam	nination until 5 v	rs after const

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

	Chicago Street to US					
ROUTE	Route 30	DESCRIPTION	I-8	0 Phase II	LOGGED BY	DJ
SECTION	15	LOCATION S	SE 1/4, SEC. 15,	TWP. T35N, RNG	. R30E, 3 rd PM ,	
_			Northing 17654	21.961, Easting 1	056580.8 <u>57</u>	
COUNTY _	Will COR	ING METHOD Rotar	ry Wash			
				NX Double		
STRUCT. N	O	CORING BARREL	TYPE & SIZE _	Swivel-10 ft		
Station	-		_	_		
_		Core Diameter	2	in		
BORING NO	o. NWB-004	Top of Rock Elev		ft		
Station	104+64	Begin Core Elev.	558.82	ft		
Offset	19 ft Right	-				
Ground St	urface Elev. 564.82	ft				





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	Route 30	DE	SCR	IPTION	ا		I-80 Phase II		LO	GGED BY _	DJ
SECTION	15			LOCAT	TION _	SE 1/4	, SEC . 15, TWP . T35N	I, RNG . R30E,	3 rd PM ,		
COUNTY	Will D	RILLING	ME	THOD			ing 1765425.304, Eas Stem Auger/Rotary	-		CME Auto	matic
STRUCT. NO Station	<u>-</u>		D E P	B L O	UCS	M 0 -	Surface Water Elev. Stream Bed Elev.	n/a n/a	ft ft		
Station Offset	NWB-005 102+74 26.5 ft Right se Elev. 565.72		T H (ft)	W S (/6")	Qu (tsf)	S T	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry n/a 	ft		
TOPSOIL-black	<u> </u>										
		564.22		3		33					
SILTY CLAY-da black-stiff (Fill)	rk brown spotted			3	1.75 P	19					
				2							
	OCK very dense	561.22	-5	2 50/4"		27					
FRACTURED R	OCK-very dense			00/1							
Borehole continu	and with mank	559.72		1							
coring.											
			 -20	_							

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

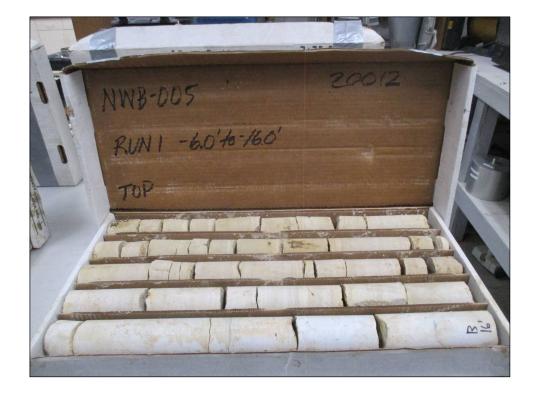
ROUTE	Chicago Street to US Route 30	DESCRIPTION	1_8	t∩ Phase II		10	GGF) BY	DJ
							OOLL		
SECTION _	15	LOCATION	Northing 17654	, TWP. T35N, RN 0 125.304, Easting	, R30 <u>E</u> 1056771	3° PM , .242			
COUNTY _	Will COR	RING METHOD Rot	ary Wash			R	R	CORE	S
STRUCT N	0 -	CORING BARRE	I TVDF & SIZE	NX Double		С		Т	R
Station _	O				D C E O	O V	Q	l M	E N
BORING NO	D. NWB-005	Core Diameter Top of Rock Ele			PR	E	D	E	G
Station _	102+74	Begin Core Ele		ft	T E	R			T H
Offset	26.5 ft Right urface Elev. 565.72	_ 			(ft) (#)		(%)	(min/ft)	
RUN 1 (-6.0	<u> </u>	_ "\		559.72		96	44	(608.00
SILURIÁN	SYSTEM, NIAGARAN SE				⊢ '				000.00
Light gray &	fine grained with horizor Some rust staining to -12	ital bedding. Numerou ? 0'	ıs horizontal fract	ures					
unougnout	come ruet etailing to 12								
					-10				
					-				
					-15				
End Of Bori	ng @ -16.0'. Boring back	filled with cuttings		549.72					
End of Borir		illiod With oditingo.							
					-20				
					_				
					-25				
					\dashv				
							1		l

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE _	Chicago Street to US Route 30	DESCRIPTION	I-80 Phase	e II	LOGGED BY	DJ
SECTION	15		E 1/4, SEC. 15, TWP. 7 orthing 1765425.304,			
COUNTY	Will CORI	NG METHOD Rotary	Wash			
STRUCT. N	NO. <u>-</u>	CORING BARREL T		ouble el-10 ft		
BORING N Station Offset Ground S	NWB-005 102+74 26.5 ft Right Surface Elev. 565.72	Top of Rock Elev. Begin Core Elev.	559.72 ft ft ft			





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE _	Chicago Street to US Route 30	DE	SCR	IPTIOI	N		I-80 Phase II		LOGGED BY	DJ
SECTION	15		_ [OCA	TION	SE 1/4	I, SEC. 15, TWP. T35N	I, RNG. R30E, 3 rd P	M,	
	Will D						Stem Auger/Rotary			matic
STRUCT. N Station	O		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a ft n/a ft		
Station	O. NWB-006 100+98 37.9 ft Right		H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	Dryft		
Ground S	urface Elev. 566.38	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	ft		
TOPSOIL-	black		_			50				
CII TV CI A	V block stiff (Fill)	564.88		3 8	1.00	17				
SILTY CLA	Y-black-stiff (Fill)		_	4	P	''	-			
becoming of	lark brown & -3.0'			2						
			-5	3 5	1.00 P	23				
SAND & G	RAVEL-brown-medium	560.88	-							
dense to ve			_	5						
				8 14		9				
		557.38	_	50/5'						
Borehole coring.	ontinued with rock	337.36	-10							
				-						
				_						
			_							
			_							
			-15	_						
				_						
			_	-						
			20	†						

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

Chicago Street to US ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED E	BY DJ
	,, <u> </u>
SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3 rd PM, Northing 1765432.783, Easting 1056946.97	
COUNTY Will CORING METHOD Rotary Wash R E R	CORE S
NX Double c	T R
Station -	I E M N
POPING NO. NIMP OOF Top of Rock Flev 557.38 ft P R E D	E G
Station 100+98 Begin Core Elev. 557.38 ft T E R .	T H
Offset 37.9 ft Right	min/ft) (tsf)
Ground Surface Elev. 566.38 ft (ft) (#) (%) (%) (%) RUN 1 (-9.0' to -19.0') 557.38 1 100 49	596.00
SILURIÀN SYSTEM, NIAGARAN SERIES DOLOMITE	390.00
Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining to -10.9'.	
15	
End Of Boring @ -19.0'. Boring backfilled with cuttings.	
End of Boring	
-25	

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE	Route		DESCRIPTION	I-8) Phase II	LOGGED BY	DJ
SECTION _		15			TWP. T35N, RN 32.783, Easting	IG. R30E, 3 rd PM , 1056946.97	
COUNTY _	Will	COR	ING METHOD Rotary	y Wash			
STRUCT. No	0	<u>-</u>	CORING BARREL 1	TYPE & SIZE _	NX Double Swivel-10 ft	_	
			Core Diameter	<u>2</u> 557.38	_ in ft		
BORING NO) NWE	3-006	Top of Rock Elev.				
Station	100)+98	Begin Core Elev.	557.38	ft		
Offset	37.9 f	t Right	-				
Ground St	ırface Elev	566.38	ft				





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE _	Chicago Street to US Route 30	Route 30 DESC			N		I-80 Phase II	LOGGED BY DJ			
SECTION	15		_	LOCA	TION _	SE 1/4	, SEC. 15, TWP. T35N,	RNG. R30E, 3 rd PM,			
COUNTY	Will DF	RILLING	ME	THOD		Hollow	Stem Auger/Rotary	_ HAMMER TYPE _	CME Automatic		
STRUCT. N Station	O	_	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft			
Station _ Offset _	O. NWB-007 746+17 91.9 ft Left		H		Qu	S T	Upon Completion _	Dry ft n/a ft			
Ground S TOPSOIL-I	urface Elev. 569.42	ft	(π)	(/6")	(tsf)	(%)	After Hrs	ft			
TOF SOIL-	ласк					25					
011 T) (01 A	\(\frac{1}{2}\)	567.92		3	2.50	04					
(Fill)	Y-dark brown-very stiff			6	2.50 P	21					
SAND & G	RAVEL-brown-medium	566.42		6							
doneo to de	31100			7		6					
			<u>-5</u>	10							
				7							
				14 17		5					
				2							
			-10	4		6					
		558.42	_								
Borehole coring.	ontinued with rock										
			_								
			_								
			-15								
			_								
				1							
				-							
]							
				1							
			20	-							

Color pictures of the cores

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

POLITE	Chicago Stre Route 3	et to US	DESCRIPTION		10	BY	DJ				
								_	OOLD	, Б	
SECTION		15	LOCATION	SE 1/4, SEC. Northing 176	15, TWP. T35N 35435.955, Eas	l, RNG . R30 sting 1057	DE, 3 ^r 100.9	^d PM , 37			
COUNTY	Will	COR	ING METHOD Ro		·			R	(CORE	S
					NX Doub	le		E C	R	Т	T R
STRUCT. N	O	-	_ CORING BARRE	EL TYPE & SIZE	Swivel-10	0	С	0	Q	ı	E
			Core Diameter		in	E P	O R	V E	D	M E	N G
BORING NO	O. NWI	B-007	Top of Rock E Begin Core El				E	R		_	T
Station _ Offset	746 91.9	ftleft	Begin Core Er	ev	<u> </u>	H		Y			Н
	urface Elev		_ _ ft			(ft)	(#)	(%)	(%)	(min/ft)	(tsf)
RUN 1 (-11	.0' to -21.0')					558.42	1	99	73		501.00
			RIES DOLOMITE tal bedding. Numero	us borizontal fra	ecturos						
throughout.	Some rust sta	with honzon aining.	tal bedding. Numero	ius nonzoniai na	iciuies	_					
						-					
						<u> </u>					
						-15					
						_					
						_					
						_					
						-20					
						_					
End Of Bor	ing @ -21 0' F	Roring hackf	filled with cuttings.			548.42					
End of Bori		John g Daoiti	med with outtings.								
						_					
						-25					
						_					
						_					
						-30					

Yes

ROCK CORE LOG

Page	1	of	1
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Date 2/28/22

ROUTE _	Route 30	DESCRIPTION	<u></u>	0 Phase II	LOGGED BY	DJ
SECTION	15	LOCATI		, TWP. T35N, RNG. R:		
COUNTY	Will	CORING METHOD	Rotary Wash			
STRUCT. N	O. <u>-</u>		RREL TYPE & SIZE	NX Double Swivel-10 ft		
BORING No	O. NWB-007 746+17	Core Diam Top of Roo Begin Core	ck Elev. 558.42	in ft ft		
Offset Ground S	91.9 ft Left urface Elev. 569	<u>- </u>				





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE _	Route 3	0	_ DES	DESCRIPTION			I-80 Phase II			LOGGED BY DJ		
SECTION		15		_ ι	OCA	TION _	SE 1/4	, SEC. 15, TWP. T35N ing 1765441.336, Eas	N, RNG. R30E, 3	3 rd PM ,		
COUNTY	Will	DRI	ILLING	ME	THOD			Stem Auger/Rotary	•		CME Auto	matic
	NO		_	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a n/a	ft ft		
Station Offset _	NO. NWB 749 88.1 f Surface Elev	+07 ft Left	_ _ _ _{ft}	T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry_ n/a	ft		
TOPSOIL		37 1.30	_ "	(1.1)	,,,	(101)	(70)	Aitei nis.		11		
	ck-medium dens	se (Fill)	-	_	3		31					
		Ę	568.56	_	6							
SAND, GF STONE-b (Fill)	RAVEL & rown-medium de	ense	-	_	6		4					
(')		F	566.06	-5	9		4					
SILTY CL stiff (Fill)	AY LOAM-browr		-	_	6	2.75	12					
		5	- 563.56	_	9	P P	12					
SILTY CL brown & b	AY with Stone-d lack (Fill)	ark	562.56	_	50/5"							
Bedrock	oservation: Appa		562.06	-10			13					
Borehole coring.	continued with ro	ock	-	_								
			-	_								
			-	_								
			-	-15								
			-	_								
			-	_								
			-	_								
			-	-20								

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE	Chicago Street to US Route 30	DESCRIPTION	10	LOGGED BY					
							OOLD	, D	DJ
SECTION _	15	LOCATION	SE 1/4, SEC. 1	5, TWP. T35N, RI 5441.336, Eastin g	NG. R30E, 1057390	3 rd PM , .7			
COUNTY _	Will COR	ING METHOD Rot				R		CORE	S
				NX Double		E C	R	Т	T R
STRUCT. NO). <u>-</u>	CORING BARRE	EL TYPE & SIZE	Swivel-10 ft	- D C	0	Q	ı	E
		Core Diameter			E O		D.	M E	N G
BORING NO	. <u>NWB-008</u> 749+07	Top of Rock El Begin Core Ele			TE	R	.	_	Т
Offset	88.1 ft Left				H	Y			Н
	rface Elev. 571.56	ft			(ft) (#	(%)	(%)	(min/ft)	(tsf)
Light gray & throughout.	YSTEM, NIAGARAN SE fine grained with horizon Some rust staining.	RIES DOLOMITE tal bedding. Numerou		562.0	06 -10 1 -15 -15	84	60		629.00

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY _	DJ
SECTION _	15		E 1/4, SEC. 15, TWP. T35N, RNG. R301 Northing 1765441.336, Easting 105739		
COUNTY _	Will CO		y Wash		
STRUCT. N	O	CORING BARREL	NX Double TYPE & SIZE Swivel-10 ft		
BORING NO	749+07	Core Diameter Top of Rock Elev Begin Core Elev.			
Offset Ground Su	88.1 ft Left urface Elev. 571.56	ft			





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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE Chicago Street to US Route 30	_ DES	DESCRIPTION				I-80 Phase II	LO	LOGGED BY DJ		
SECTION 15		_ [_OCA1	TION _	SE 1/4	E 1/4, SEC. 15, TWP. T35N, RNG. R30 lorthing 1057583.5, Easting 1765457				
COUNTY Will DR	ILLING	ME	THOD			Stem Auger/Rotary		CME Automatic		
STRUCT. NO	<u> </u>	D E P	B L O	U C S	М О І	Surface Water Elev Stream Bed Elev	n/a n/a ft			
BORING NO. NWB-009 Station 751+00 Offset 97.7 ft Left Ground Surface Elev. 577.90	 ft	T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	<u>Dry</u> ft n/a ft <u>-</u> ft			
TOPSOIL with Stone-black-very loose (Fill)		_			9					
10030 (1 111)			3							
			2		25					
	574.90									
GRAVEL & STONE-brown-very loose (Fill)		_	4							
		-5	6 7		8					
	572.40									
SILTY CLAY LOAM-brown-very stiff (Fill)			4	0.75	10					
Drillers Observation:	570.90		30/4	2.75 P	13					
	569.90									
Borehole continued with rock coring.		_								
		-10								
		_								
		_								
		-15								
		_								
		_								

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805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838
FAI Route 80 from

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE _	Chicago Street Route 30	t to US DESCRIE	PTION	1-8	0 Phase II			LOGG	ED BY	DJ
SECTION	1	15 L	OCATION SE	1/4, SEC. 15	, TWP. T35N, RN 583.5, Easting 17	G . R301	Ξ, 3 rd Ι	PM,		
COUNTY	Will	CORING METH						R E I	CORE	S T
STRUCT. N Station	10. <u>-</u>		NG BARREL T	2		E	C O	C O V	. T Q I . M	R E N
Station	O. NWB-751+97.7 ft	-00 Beg	of Rock Elev. in Core Elev.				R E	_	D E	G T H
Ground S	Surface Elev.	577 90 ft				(ft)	(#) ((%)	%) (min/ft)	(tsf)
SILURIÁN Light gray a throughout	& fine grained wi	SARAN SERIES DOL ith horizontal bedding	LOMITE g. Numerous h		569.90		1	93 6	68	616.00
End of Bori	ing					-20 				

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

ROUTE _	Route 30	DESCRIPTION	I-80 Phase II	_ LOGGED BY _	DJ
SECTION	15	LOCATION	SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3 Northing 1057583.5, Easting 1765457	rd PM,	
COUNTY	Will C	CORING METHOD Rot	ary Wash	-	
STRUCT. N	IO	CORING BARRE			
BORING No	751+00	Core Diameter Top of Rock El Begin Core Ele	ev. 569.90 ft		
Offset Ground S	97.7 ft Left urface Elev. 577.9	0 ft			





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Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

ROUTE	Route 30	DE	SCR	IPTIOI	N		I-80 Phase II		_ LOG	GED BY _	DJ
SECTION	15			LOCA	ΓΙΟΝ _	SE 1/4	I, SEC . 15, TWP . T35N	I, RNG . R30E, 3	rd PM,		
COUNTY	Will D	RILLING	ME	THOD			ing 1765483.551, Eas Stem Auger/Rotary			CME Auto	matic
STRUCT. NO Station	-	_	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a n/a	ft ft		
Station Offset	NWB-010 753+08 117.7 ft Left		H	W	Qu (tsf)	S T (%)	Upon Completion	Dry1 n/a1	ft		
	e Elev. 571.58	π	(11)	(10)	(ເວເ)	(/0)	After Hrs.		π		
TOPSOIL-black			_			22					
		E70 00		3							
SILTY CLAY-da black-stiff (Fill)	rk brown &	570.08		4 3	1.00 P	24					
				4 9							
			<u> </u>			5					
		565.58]							
FRACTURED R	OCK-very dense		_	50/1'							
D 1 1 "	1 '0 1	564.58		1		10					
Borehole continuction	ued with rock		_								
			_	-							
				1							
			-10	1							
				1							
			_	1							
			_	1							
				1							
			<u> </u>	1							
			-13	1							
			_	1							
				_							
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				1							
			_	1							
				1							
			-20								

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

Ch ROUTE	nicago Street to US Route 30	DESCRIPTION	1_8	R0 Phase II		10	GGED	BY	DJ
							OOLD	, D	
SECTION	15	LOCATION	SE 1/4, SEC. 15 Northing 17654	, TWP. T35N, RN 483.551, Easting	G. R30E, 3 1057790.	3 ^{ra} PM , 284			
COUNTY	Will COR	ING METHOD Rot	_			R	_	CORE	S
				NX Double		E	R	Т	T R
STRUCT. NO.	<u>-</u>	CORING BARRE	L TYPE & SIZE _	Swivel-10 ft	D C	0	Q	ı	E
		Core Diameter			E O P R	V E	D D	M E	N G
BORING NO.	NWB-010 753+08	Top of Rock El Begin Core Ele			TE	R		_	Т
Offset	117.7 ft Left				Н	Y			Н
	ice Elev. 571.58	ft			(ft) (#)	(%)	(%)	(min/ft)	(tsf)
Light gray & fin throughout. So	(a-17.0') STEM, NIAGARAN SE the grained with horizon me rust staining to -11 (a) -17.0'. Boring backf	RIES DOLOMITE tal bedding. Numerou .7'. 1/4" clay parting (us horizontal fract	564.58		98	62		427.00
					-25				

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

ROUTE _	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY _	DJ
SECTION	15		SE 1/4, SEC. 15, TWP. T35N, RNG. R30E Northing 1765483.551, Easting 105779		
COUNTY _	Will COR		y Wash		
STRUCT. N	0	CORING BARREL	NX Double TYPE & SIZE Swivel-10 ft		
BORING NO		Core Diameter Top of Rock Elev Begin Core Elev.			
Station _ Offset _ Ground S	753+08 117.7 ft Left urface Elev. 571.58	Begiii Core Elev. _ _ ft			





Z./PROJECTS\2020\20012 EXP, I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012 LOG.GPJ 3/9\23

SOIL BORING LOG

GEO Job No. 20012

Page <u>1</u> of <u>1</u>

Date 2/16/22

	FAI Route									Date _	2/16/22
ROUTE _	Chicago Stro Route	eet to US	DE	SCRI	IPTION	ı		I-80 Phase II	LC	GGED BY _	
								1, SEC. 15, TWP. T35N,			
								Stem Auger/Rotary			matic
COON11 _	VVIII		VILLING	, IVIL	11100	'	IOIIOW	J. J		CIVIL AUIC	matic
STRUCT. N Station	O	-		D E P	B L O	U C S	М О І	Surface Water Elev Stream Bed Elev			
Station _ Offset	O. NW 75 129.8 urface Elev.	55+03 80ft Left		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.			
ASPHALT/	_										
	Y with Grave	l-brown &	567.21		4 6 7	2.00 P	38				
SANDY CL gray-Mediu	AY LOAM-brom Dense	own &	564.71		6 10 8		13				
	AND &GRAV ay-Medium [562.21		6 7 9		13				
CRUSHED -gray-Mediu	STONE with um Dense	Sand	559.71		6 15 10		11				
LIMESTON -gray-Dens	E with Sand e		557.21		20 20 23		5				
			553.21	-15							
End Of Bor backfilled w	ing @ -15.0'. vith cuttings.	Boring	000.21								



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/4/22

	Route			SCR	IPTIO	N		I-80 Phase II		LOGGE) BY	TC
SECTION		15		_ ι	OCA	TION _	SW 1/	4, SEC. 15, TWP. T35N ing 1764691.5, East in	N, RNG . R30E, 3	B rd PM,		
COUNTY	Will	D	RILLING	ME	THOD	ı		Stem Auger/Rotary		PE CN	⁄IE Autor	natic
			ſ		l	I						
STRUCT. I	NO	-		D E	B L	C	M	Surface Water Elev. Stream Bed Elev.	n/a	ft ••		
Station		-		Р	ō	S	ı	Stream Bed Elev.		π		
BORING N	ION	VB-012		T H	W S	~	S	Groundwater Elev.:				
Station _	5 42	3+16 ft Right		п	3	Qu	Т	First Encounter	Dry_	ft #		
Ground S	Surface Elev.	556.00	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs.	<u>II/a_</u> 	ft		
10.0" ASP												
CRUSHE	STONE-me	dium	555.17		8							
dense	O TONE-IIIO	alam		_	8		4					
			-	_	5		ļ .					
			553.00									
Drillers Ob Bedrock	servation: Ap	parent		_	1							
Bourook			551.50		-							
	continued with	rock		-5								
coring.				_	-							
			-		-							
				_								
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				-10	-							
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				-20	-							

ROCK CORE LOG

Page $\underline{1}$ of $\underline{8}$

Date 3/4/22

ROUTE Route	e 30 DE	SCRIPTION	I-80) Phase II			_ LO	GGED	BY	TC
SECTION	15	LOCATION SW	1/4, SEC. 15,	TWP. T35N, RN	G . R3	0E, 3	B rd PM,			
COUNTY Will	CORING	METHOD Rotary W	_	91.5, Easting 10	33608	9.2	R		CORE	S
STRUCT. NO	- - VB-012 3+16 ft Right	CORING BARREL TYPE Core Diameter Top of Rock Elev. Begin Core Elev.			D E P T H (ft)	C O R E (#)	ECOVERY	R Q D	T I M E (min/ft)	T R E N G T H (tsf)
RUN 1 (-4.5' to -14.5') SILURIAN SYSTEM, NI Light gray & fine grained throughout.	d with horizontal b	edding. Some horizon	tal fractures	551.50 541.50	-10	1	100	82		655.00
End Of Boring @ -16.0'. End of Boring	Boring backfilled	I with cuttings.			-20 -20					

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/4/22

	Chicago Street to US				
ROUTE	Route 30	DESCRIPTION	I-80 Phase II	_ LOGGED BY _	TC
SECTION	15	LOCATION	SW 1/4, SEC. 15, TWP. T35N, RNG. R30E,	3 rd PM.	
			Northing 1764691.5, Easting 1055609.2		
COUNTY _	Will COR		ry Wash	_	
			NX Double		
STRUCT. NO	O	CORING BARREL	TYPE & SIZE Swivel-10 ft		
Station	-	_			
_		Core Diameter	2 in		
BORING NO). NWB-012	Top of Rock Ele	v. <u>553.00</u> ft		
Station	53+16	Begin Core Elev	<u>. 551.50</u> ft		
Offset	42 ft Right	-			
	ırface Elev. 556.00	_ _ ft			





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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/4/22

ROUTE	Route 30	DE	SCR	IPTION	١		I-80 Phase II		LOGGED BY _	TC
						North	4, SEC. 15, TWP. T35N, ing 1764890.1, Easting	1055651.9		
COUNTY _	Will D	RILLING	ME	THOD		Hollow	Stem Auger/Rotary	HAMMER TYPE	CME Auto	matic
STRUCT. No Station	O		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft		
Station Offset	NWB-013 11+00 2 ft Right Irface Elev. 549.00		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.			
10.0" ASPH	ALT	548.17	_							
CLAY LOAN	//d-brown-very stiff (Fill))		21 3 5		18				
Drillers Obs Fractured/W	ervation: /eathered Rock	545.50		50/0"		NR				
Drillers Obs Bedrock	ervation: Apparent	544.00 543.00	<u>-5</u>							
coring.	entinued with rock		-10 -10 -15 -15 							

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/4/22

ROUTE	Chicago Street to US Route 30	DESCRIPTION	I_8	∩ Phase II		10	GGEL	BY	TC
								, D	10
SECTION _	15	LOCATION	SW 1/4, SEC. 15	, TWP. T35N, RN 90.1, Easting 10	G. R30E, 55651.9	3 ^{ra} PM	,		
COUNTY _	Will COR	ING METHOD Rot				R		CORE	S
				NX Double		E	R	Т	T R
STRUCT. NO Station	· <u>-</u> -	_ CORING BARRE	L TYPE & SIZE _		D C	0	Q	ı	E
		Core Diameter			E O	V E	D.	M E	N G
BORING NO.	NWB-013 11+00	Top of Rock Ele Begin Core Ele			TE	R		_	Т
Offset	2 ft Right				н	Y			Н
	face Elev. 549.00	ft			(ft) (#)	(%)	(%)	(min/ft)	(tsf)
	to -16.0') YSTEM, NIAGARAN SE fine grained with horizon		rizontal fractures	543.00	1	99	91		691.00
throughout.	ille grained with honzon	tai bedding. Some no	mzoniai naciules						
					-10				
					\dashv				
					-				
					-15				
				533.00					
End Of Borin	g @ -16.0'. Boring backt	illed with cuttings.							
Elia oi Bolliiq	d								
					-20				
					-				
					-25				
					-23				

ROCK CORE LOG

Page	1	of	1
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Date 3/4/22

ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY _	TC
SECTION _	15		SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, Northing 1764890.1, Easting 1055651.9	3 rd PM,	
COUNTY _	Will COF		ry Wash		
STRUCT. No	0	_ CORING BARREL			
BORING NO Station Offset	NWB-013 11+00 2 ft Right	Core Diameter Top of Rock Ele Begin Core Elev			
Ground Su	ırface Elev. <u>549.00</u>	_ ft			





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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/8/22

ROUTE	Route	30	DE	DESCRIPTION		1	I-80 Phase II			LOGGED BYTC		
SECTION _		15		!	LOCAT	ION _	SW 1/4	4, SEC. 15, TWP. T35N, ing 1764993.7, Easting	RNG. R30E, 1055822.9	3 rd PM ,		
COUNTY	Will	DI	RILLING	ME	THOD		Hollow	Stem Auger/Rotary	HAMMER T	YPE _	CME Auto	matic
STRUCT. NO. Station BORING NO. Station Offset	NW 1	VB-014 2+99 7 ft Left		D E P T H	B L O W S	U C S	M O I S T	Upon Completion _	547.7_ n/a	ft <u>▼</u> ft		
Ground Sur		553.70	ft	(ft)	(/6")	(tsf)	(%)	After Hrs		ft		
14.0" ASPHA	LI		FF0 F0	_								
CRUSHED A	SPHALT-v	ery dense	552.53		50/5"		3					
			550.70	_		_						
CRUSHED S dense	TONE-me	dium	,		12 17		8					
				-5	ا ہ ا	_						
			546.70	<u> </u>	5 50/0"		2					
Borehole concoring.	tinued with	rock										

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/8/22

ROUTE	cago Street to US Route 30	DESCRIPTION	I-80) Phase II		_ LO	GGED	BY	TC
SECTION	15	LOCATION _	SW 1/4, SEC. 15,	TWP. T35N, RN0	3. R30E,	3 rd PM,	1		
COUNTY	Will COR	ING METHOD Rota				R	R	CORE	S T
STRUCT. NO	-	CORING BARREL Core Diameter	2	_ in	D C E O	0 V	Q	T I M	R E N
BORING NO	NWB-014 12+99	Top of Rock Ele Begin Core Elev			P R T E	E R	D .	E	G T
Offset	11.7 ft Left		-		н	Y			Н
	ce Elev. 553.70	- _ ft			(ft) (#)	(%)	(%)	(min/ft)	(tsf)
Light gray & fine throughout.	TEM, NIAGARAN SE	tal bedding. Some hor	rizontal fractures	546.70 536.70	1	97	80		652.00
End of Boring					-20 				

ROCK CORE LOG

Page	1	of	1
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Date 3/8/22

ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY	TC
SECTION _	15	LOCATION	SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, Northing 1764993.7, Easting 1055822.9	3 rd PM,	
COUNTY _	Will	CORING METHOD Rot	tary Wash	_	
STRUCT. No	0. <u>-</u>	CORING BARRE Core Diameter			
BORING NO Station Offset	NWB-014 12+99 11.7 ft Left	Top of Rock El	lev. 546.70 ft		
	ırface Elev. 553.7	<u>70</u> ft			





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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/8/22

ROUTE	Route 30	I	DESCR	RIPTION	1		I-80 Phase II	L(OGGED BY _	TC
						SE 1/4 North	l, SEC. 15, TWP. T35N, ing 1765109.6, Eastin	RNG. R30E, 3 rd PM g 1055986.5	,	
COUNTY _	Will	_ DRILLI	NG ME	THOD		Hollow	Stem Auger/Rotary	HAMMER TYPE	CME Auto	omatic
BORING NO	NWB-01	5	D E P T H	B L O W S	U C S Qu	M O I S	Surface Water Elev Stream Bed Elev Groundwater Elev.:	n/a_ ft		
Offset	15+00 11.2 ft Rig face Elev. 55	ght		(/6")	(tsf)	(%)	First Encounter Upon Completion After Hrs.	<u>Dry</u> ft <u>n/a</u> ft - ft		
16.0" ASPH					, ,	, ,				
		554.	37	35						
CRUSHED A	ASPHALT-very d	ense		50/4"		3				
D.:II. O.	· A	552.	70							
Bedrock	rvation: Apparen	ιτ 551.	70 –	50/0"		NR				
coring.	ntinued with rock									

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ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/8/22

ROUTE	Chicago Street to US Route 30	DESCRIPTION	1-1	80 Phase II		10	GGFD	BY	TC
								- ·	_
	15		SE 1/4, SEC. 15 Northing 1765	109.6, Easting	1055986.5		T		
COUNTY _	Will COR	ING METHOD Ro	tary Wash			R	R	CORE	S T
STRUCT. N	O	CORING BARRE	EL TYPE & SIZE	NX Double Swivel-10 ft		С		Ţ	R
Station _	0	Core Diameter	_		D C	0 V	Q	I M	E N
BORING NO	D. NWB-015	Top of Rock E	lev. 552.70	ft	P R T E	E R	D	E	G T
Station _	15+00	Begin Core Ele	ev. <u>551.70</u>	ft	H	Y	•		H
	11.2 ft Right urface Elev. 555.70	- _ ft			(ft) (#)	(%)	(%)	(min/ft)	(tsf)
RUN 1 (-4.0)' to -14.0')				1.70 1	99	89		552.00
Light gray 8	SYSTEM, NIAGARAN SE ifine grained with horizon		orizontal fractures	s & rust	5				
staining thro	oughout.								
					_				
					_				
					40				
					-10				
					-				
				54	1.70				
End Of Bori End of Bori	ng @ -14.0'. Boring backt ng	filled with cuttings.			-15				
					_				
					-20				
					\dashv				

Color pictures of the cores	Yes	
Cores will be stored for exam	nination until 5 v	rs after const

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Dato	3/8/22

ROUTE _	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY _	TC
SECTION	15	LOCATION	SE 1/4, SEC . 15, TWP . T35N, RNG . R30E, 3 rd Northing 1765109.6, Easting 1055986.5	PM,	
COUNTY _	Will COI	RING METHOD Rot	ary Wash		
STRUCT. N	O	CORING BARRE			
BORING NO	O. NWB-015	Core Diameter Top of Rock El Begin Core Ele	ev. 552.70 ft		
Offset	11.2 ft Right urface Elev. 555.70	ft			



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/15/22

ROUTE Route 30	DES	SCR	IPTION	ı		I-80 Phase II		LO	GGED BY $_$	TC
SECTION15		_	OCAT	ION .	SE 1/4	, SEC. 15, TWP. T35N ing 1765208, Easting	, RNG. R30E,	3 rd PM ,		
COUNTY Will D	RILLING	ME	THOD			Stem Auger/Rotary		YPE _	CME Auto	matic
STRUCT. NO. - Station - BORING NO. NWB-016		D E P T	B L O W	U C S	M O I S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	n/a n/a	ft ft		
Station 17+00 Offset 2.1 ft Left		Н	S	Qu	Т	First Encounter Upon Completion	Dry n/a	ft ft		
Ground Surface Elev. 558.60	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	- 11/d	ft		
11.0" ASPHALT	557.68									
CRUSHED STONE-medium dense		_	16 16 12		4					
Drillers Observation: Apparent Bedrock	555.60		50/1"							
Borehole continued with rock coring.	554.60	-10 -15 -15 -15 15								

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/15/22

ROUTE	Chicago Street to US Route 30	DESCRIPTION		I-80 Phase II			LOGG	ED BY	TC
									10
SECTION _	15	LOCATION	SE 1/4, SEC Northing 1	. 15, TWP . T35N 765208, Easting	N, RNG. R30 I 1056158.5)E, 3'' F	PM,		
COUNTY	Will COR	ING METHOD Rot	_				R	CORE	
				NX Doub			E F		T R
STRUCT. NO	- <u>-</u>	CORING BARRE	L TYPE & SIZ	E Swivel-10		С	0 0	Q I	E
		Core Diameter		in	E P		V . E .		N G
BORING NO.	NWB-016	Top of Rock El Begin Core Ele		10 ft 60 ft	T		R .		T
Offset	17+00 2.1 ft Left	_ Degili Core Lie		<u> </u>	Н		Y		Н
	face Elev. 558.60	_ _ ft			(ft)	(#)	%) (%	6) (min/ft)	(tsf)
RUN 1 (-4.0'	to -14.0')	DIEG DOLOMITE		į	554.60	1 9	94 7	0	634.00
	YSTEM, NIAGARAN SE porous with horizontal be		aining to -7.3'.		5				
3 3 7 7 1		3	J		_				
					_				
					_				
					-10				
					_				
					_				
First Of Davin	(A. 4. 0). Danimus harald	::::::::::::::::::::::::::::::::::::::			544.60				
End Of Boring	g @ -14.0'. Boring backt	illed with cuttings.			-15				
	•								
					-20				
					\dashv				
					_				
								1	1

Color pictures of the cores	Yes	
Cores will be stored for exam	nination until	5 yrs after const

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/15/22

	Chicago Street to US					
ROUTE	Route 30	DESCRIPTION	I-80 F	Phase II	LOGGED BY _	TC
SECTION	15	LOCATION	SE 1/4, SEC. 15, TV	NP. T35N, RNG. R30E	E, 3 rd PM ,	
			Northing 1765208	, Easting 1056158.5		
COUNTY _	Will COR	NG METHOD Rota	ry Wash			
			1	NX Double		
STRUCT. N	IO	CORING BARREL	TYPE & SIZES	Swivel-10 ft		
Station	-					
_		Core Diameter		in		
BORING NO	O. NWB-016	Top of Rock Ele		ft		
Station	17+00	Begin Core Elev	. <u>554.60</u>	ft		
Offset	2.1 ft Left	•				
Ground S	urface Elev. 558.60	ft				



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/15/22

ROUTE	Route	30	_ DES	SCR	IPTION	I		I-80 Phase II		LOG	GED BY _	TC
SECTION		15		_ [OCAT	ION _	SE 1/4 North	, SEC. 15, TWP. T35N, ing 1765240.1, Easting	RNG. R30E, 1056356.1	3 rd PM ,		
COUNTY	Will	DR	RILLING	ME	THOD		Hollow	Stem Auger/Rotary	_ HAMMER T	YPE	CME Auto	matic
STRUCT. NO. Station			<u> </u>	D E P T	B L O W	U C S	M O I S	Surface Water Elev Stream Bed Elev	n/a n/a	ft ft		
BORING NO. Station Offset Ground Surf	19 4.5	9+00 ft Left	 ft	Н	S (/6")	Qu (tsf)	(%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry n/a	ft		
11.0" ASPHAI			ļ			. ,	. ,					
CRUSHED AS dense	SPHALT-m	nedium	559.88		25 12 9		4					
Drillers Obser Bedrock	vation։ App		557.80 557.30	_								
Borehole cont coring.	inued with	rock		-10 -15 -15 -15								

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/15/22

ROUTE	Chicago Stre Route	et to US 30	DESCRIPTION		I-80 Phas	e II		1.0	GGF	BY	TC
										· - · _	
SECTION _		15	LOCATION	SE 1/4, SEC Northing 1	:. 15, TWP. 765240.1, E	T35N, RNG asting 105	6. R30E 56356.1	, 3 ¹⁴ PM,			
COUNTY _	Will	COR	ING METHOD Ro					R	R	CORE	S T
OTDUOT N	•			TVDE 0 01	NX [Double		_	K	Т	R
STRUCT. N Station	O	-	CORING BARRE			el-10 ft	D		Q	1	E
			Core Diameter		in		E C		D .	M E	N G
BORING NO). NW	B-017	Top of Rock E Begin Core Ele	-	.30 ft .30 ft		TE	: R		_	Т
Offset	19 4.5	ft I eft	_ Degin oore En				н	Y			н
Ground St	urface Elev	560.80	_ _ ft				(ft) (#	f) (%)	(%)	(min/ft)	(tsf)
RUN 1 (-3.5	5' to -13.5')					557.30	1	98	77		278.00
	SYSTEM, NIA porous with		RIES DOLOMITE			•					
Light gray o	porous with	HOHZOHIAI DE	edding.				-5				
							-				
							-				
							-10				
							-				
						-					
End Of Pari	ng @ 12 5'	Parina haakt	filled with cuttings.			547.30	-				
End of Bori	ng @ -13.3 . i	bolling backi	illied with cuttings.								
							-15				
						•					
						-					
							_				
							-20				
							_				
						•					

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/15/22

	Chicago Street to US				
ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY	TC
SECTION	15	LOCATION	SE 1/4, SEC. 15, TWP. T35N, RNG. R30E,	3 rd PM.	
02011011			Northing 1765240.1, Easting 1056356.1	 	
COUNTY _	Will COR	ING METHOD Rot	ary Wash		
			NX Double		
STRUCT. N	O	CORING BARRE	L TYPE & SIZE Swivel-10 ft		
Station	-	_			
_		Core Diameter	2 in		
BORING NO	D . NWB-017	Top of Rock El	ev. <u>557.30</u> ft		
Station	19+00	Begin Core Ele	v. <u>557.30</u> ft		
Offset	4.5 ft Left	_			
Ground S	urface Elev. 560.80	_ _ ft			



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/24/22

ROUTE	Chicago Street to U Route 30	S de s	SCR	IPTIOI	N		I-80 Phase II		L0	ogg	ED BY	′N	ИΒ
SECTION _	14			LOCA	TION	SW 1/	4, SEC. 14, TWP. T35N ing 1765217.686, East	, RNG. R10E	:, 3 rd PN	1,			
COUNTY _	Will	DRILLING	ME	THOD		Hol	low Stem Auger			(CME A	Automa	tic
STRUCT. No Station	O		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	B L O	U C S	M O I
Station Offset	NWB-018A 766+22 60.7 ft Right rrface Elev. 624.	<u> </u>	H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	n/a	_ ft	H (ft)	W S (/6")	Qu (tsf)	S T (%)
10.0" ASPH			L`.'	(, 0,)	(101)	(70)	CLAY LOAM-brown, g	ray &	_ 11	(,		(101)	(70)
CRUSHED	STONE-loose	623.80		6			black-stiff to very stiff (continued)	(Fill)			12		
			_	6		5	,			_	10	2.10	21
		621.64	_	3			-			_	12	В	
CLAY LOAN	И-brown, gray & very stiff (Fill)		_	3						_	6		
		_		4	1.20 B	23			500.04		8 10	2.20 B	22
		_	<u> </u>	- 3	В		End Of Boring @ -25.0	0'. Boring	599.64	-25	10	В	
				3			backfilled with cuttings	S.]		
				10	3.75	23							
			_	10	Р					_	_		
			_	4							1		
				4 7	1.50	26				_			
			-10	/	Р					-30			
				3							1		
			_	2	1.30	22				_	-		
			_	2	В					_]		
			_							_	1		
				9	3.80	24					1		
			-15	9	В					-35	1		
			_	1						_	1		
				3	2.00	19					1		
				7	2.00 P	19							
											1		
				4									
				6 a	1.50	19					_		



PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9\23

NPROJECTS\2020\20012 EXP, I-80 FROM CHICAGO ST. TO RT 30,

SOIL BORING LOG

GEO Job No. 20012

Page $\underline{1}$ of $\underline{1}$

Date 4/4/22

FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY RT ROUTE **SECTION** _____ **LOCATION** <u>SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**</u> COUNTY _____ Will ____ DRILLING METHOD __ Hand Auger HAMMER TYPE Manual Surface Water Elev. ______ ft U M STRUCT. NO. _____ С L 0 Stream Bed Elev. n/a **ft** Station Ρ S 0 ı BORING NO. NWB-019 W S Groundwater Elev.: S Qu Т
 Station
 768+00

 Offset
 102.10ft Right
 First Encounter Dry ft Upon Completion Dry ft (ft) (/6")(%) (tsf) Ground Surface Elev. 627.00 ft After ___ Hrs. ____ ft 6.0" TOPSOIL-black AS 38 626.50 CLAY LOAM-brown-hard AS 4.50 Р AS 19 4.50 Ρ AS 4.00 20 Р AS 4.25 21 619.00 Auger Refusal @ -8.0'. End Of Boring.



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/24/22

ROUTE	Chicago Street to Route 30	US de	SCR	IPTIO	N		I-80 Phase II		LOGG	ED BY	′N	/В
							4, SEC. 14, TWP. T35N, ing 1765188.349, East i					
COUNTY _	Will	DRILLING	3 ME	THOD		Hol	llow Stem Auger	HAMMER TYPI	E	CME A	Automa	tic
STRUCT. No Station	D		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft	D E P	1	U C S	M O I
Station Offset	NWB-019 768+06 63.9 ft Rig	ht	H	S	Qu	S T	Upon Completion _	<u>Dry</u> ft <u>n/a</u> ft	Н		Qu	S T
	rface Elev. 628	8.55 ft	(ft)	(/6")	(tsf)	(%)	After Hrs	ft		(/6")	(tsf)	(%)
12.0" ASPH	ALI	627.55	_			-	SAND-brown-medium	dense	<u> </u>			
CLAY LOAN	1-brown-very dens	e		12						7		
(Possible Fil	1)			8	3.50 P	18				4 6		9
			_						_			
									_			
				7	3.50	17				6		9
			-5	6	В				55 -25	7		
			_	-			End Of Boring @ -25.0 backfilled with cuttings)'. Boring	_			
				6			backing with cutaing	•				
				8 8	3.30	16						
			_	0	В		-		_			
				7	3.40	16						
			-10	40	1	10			-30	,		
									_			
becoming gi	ay @ -10.5'			6								
				9	2.90	15	-					
				11	В				_			
				5	0.00	<u> </u>						
			 -15	9	2.20 B	15			-35			
							-					
				7								
			_	4	3.00	15	_		_	-		
				9	Р					1		
				6					_			
				11	2.50	17						



PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9\23

NPROJECTS\2020\20012 EXP, I-80 FROM CHICAGO ST. TO RT 30,

SOIL BORING LOG

GEO Job No. 20012

Page $\underline{1}$ of $\underline{1}$

Date 4/4/22

FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY RT ROUTE **SECTION** _____ **LOCATION** <u>SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**</u> COUNTY _____ Will ____ DRILLING METHOD __ Hand Auger HAMMER TYPE Manual Surface Water Elev. ______ ft U M STRUCT. NO. _____ С L 0 Stream Bed Elev. n/a **ft** Station Ρ S 0 ı BORING NO. NWB-020 W S Groundwater Elev.: S Qu Т
 Station
 770+10

 Offset
 88.20ft Right
 First Encounter Dry ft Upon Completion Dry ft (ft) (/6")(%) (tsf) Ground Surface Elev. 626.05 ft After ___ Hrs. ____ ft 6.0" TOPSOIL-black AS 35 625.55 CLAY LOAM-brown-hard AS 4.00 Р AS 3.50 20 Ρ AS 3.50 21 Ρ AS 4.50 20 618.05 Auger Refusal @ -8.0'. End Of Boring.



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/25/22

Chicago Street to US ROUTE Route 30	DESCI	RIPTIO	N		I-80 Phase II		LC	GG	ED BY	N	/В
SECTION14		LOCA	TION	SW 1/	4, SEC. 14, TWP. T35N, F ing 1765165.183, Easti n	RNG. R10E,	3 rd PM	l,			
COUNTY Will DRIL	LING M	ETHO	·		low Stem Auger			(CME A	utoma	itic
STRUCT. NO Station		L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	ft ft	D E P	L O	U C S	M O I
BORING NO. NWB-020A Station 770+03 Offset 63.7 ft Right	_ T _ H		Qu	S T	Groundwater Elev.: First Encounter Upon Completion	Dry n/a	ft	H	W S	Qu	S T
Ground Surface Elev. 631.64		(/6")	(tsf)	(%)	After Hrs.		ft	(ft)	(/6")	(tsf)	(%)
6.0" ASPHALT 63 CLAY LOAM-brown & gray-stiff to	31.14				SANDY LOAM-brown-m		611.14	_	-		
hard		4	İ		dense	lodidili	-		12		
		9	4.50 P	12			-		8 12		16
							608.64			_	
	-	_ 2			SAND-brown-medium de	ense		_	5		
		3 5 2	1.20	19			-		4		7
		5 2	В		End Of Boring @ -25.0'.		606.64	-25	0		
					backfilled with cuttings.	3	-				
	-	5 8	2.50	19				_			
		9	В				-				
							-				
		4	4.00	10			-				
	-1 -1	7 0 5	1.80 B	18				-30			
							-				
		4					-				
		6 8	2.20	21			-				
	-	- 0	В					_			
	_	 					-	_			
		5 8	2.80	18			-				
	-1	11	В				-	-35			
	-							_			
		5	0.00	10			-	_			
		- 8 9	3.00 P	16			-	_			
	_						-				
	_	4						_	1		



Z:/PROJECTS\2020\20012 EXP, I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012 LOG.GPJ 3/9\23

SOIL BORING LOG

GEO Job No. <u>20012</u>

Page <u>1</u> of <u>1</u>

Deta 2/47/22

ROUTE	FAI Route 80 fro Chicago Street to	US	SCR	IPTION	J		I-80 Phase II	LO		3/17/22 TC
										10
SECTION	-		_	LOCAT	TION _	SW 1/	4, SEC. 14, TWP. T35N	, RNG . R10E, 3 ¹¹ PM		
COUNTY	Will	DRILLING	G ME	THOD			Hand Auger	HAMMER TYPE _	CME Aut	omatic
STRUCT. N Station	IO. <u>-</u>		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft		
Station _ Offset _	O. NWB-021 772+00 100.00ft Rig	ght	T H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	ft		
	urface Elev. 626	6.50 ft	(π)	(/6")	(tsf)	(%)	After Hrs	ft		
TOPSOIL-		625.50	_	HA		23				
CLAY LOA stiff	M-brown-stiff to ver	У	_	HA	1.00	27				
				НА	P		-			
					1.00 P	25				
				НА						
			5	_	2.50 P	27				
				НА	0.75	00				
				_	2.75 P	23				
			_	НА	2.50	18				
	usal @ -9.5'. End Of	617.00		-	2.50 P	10				
Boring.			_	-						
			_	_						
			-15	_						
				_						

-20



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/28/22

ROUTE _	Chicago	o Streetoute 3	80 80	DE	SCR	IPTIO	N		I-80 Phase II		LC	ogg	ED BY		ИΒ
SECTION			14			LOCA	TION _	SW 1/-	4, SEC. 14, TWP . T35N,	RNG . R10E	E, 3 rd PN	I,			
								North	ing 1765148.842, East ii	ng 1059666	3.081		314E A		
COUNTY	V	Vill	D	RILLING	3 ME	THOD	· —	Hol	low Stem Auger	HAMMER	TYPE		JME A	utoma	tic
STRUCT I	NO		_		D	В	U	М	Surface Water Flev	n/a	ft	D	В	U	М
STRUCT. I			-		E	L	С	0	Surface Water Elev Stream Bed Elev	n/a	ft	E	L	С	0
					P T	O W	S	I				P T	O W	S	1
BORING N Station	Ю	771	-021A +93		H	1	Qu	S	Groundwater Elev.: First Encounter	Dmi	ft	H	S	Qu	S T
Offset _		63.9 ft	t Right					•	Upon Completion	Dry n/a	- ft				•
Ground S	Surface E	lev	633.85	5 ft	(ft)	(/6")	(tsf)	(%)	After Hrs	-	ft	(ft)	(/6")	(tsf)	(%)
12.0" ASP	HALT				_				CLAY LOAM-brown-ve	ry stiff to					
01.41/1.04				632.85					hard (continued)				,		
CLAY LOA	AM-brown	-very s	stiff to		_	9	5.90	16				_	3 5	2.50	17
liaid						8	3.90 B	10					6	2.30 B	17
					-							_			
													1		
						5							6		
					_	4	2.70	19				_	10 7	3.10 B	18
					5	,	В		End Of Boring @ -25.0	' Poring	608.85	-25	<u>'</u>	В	
					_	-			backfilled with cuttings.	. builing		_	1		
						6							1		
						5	3.00	22]		
					_	5	В					_			
					_	4						_	-		
						4	3.10	22					-		
					-10	6	В					-30			
					_	2	3.60	24				_			
						4	В						1		
					_							_	1		
						_									
						6	F 00	17					-		
					45	9	5.30 B	17							
					-15							-35	-		
					_							_	1		
						4]		
						8	2.75	18							
					_	10	Р						-		
						-							1		
					_	4						_	1		
						7	4.90	20					1		
					-20	8	В					-40	1		



PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9\23

IPROJECTS/2020/20012 EXP, I-80 FROM CHICAGO ST. TO RT 30,

SOIL BORING LOG

GEO Job No. 20012

Page $\underline{1}$ of $\underline{1}$

Date 3/17/22

FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC ROUTE **SECTION** _____ **LOCATION** _SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM** COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic U M Surface Water Elev. _____ n/a ft STRUCT. NO. _____ С L 0 Stream Bed Elev. n/a **ft** Station Ρ S 0 ı BORING NO. NWB-022 W S Groundwater Elev.: S Qu Т
 Station
 774+07

 Offset
 96.00ft Right
 First Encounter Dry ft Upon Completion Dry ft (ft) (/6")(%) (tsf) **Ground Surface Elev.** 627.62 After _ - Hrs. _ _ - ft 10.0" TOPSOIL-black HA 626.79 23 CLAY LOAM-brown & gray-stiff HA 23 1.50 625.62 Ρ CLAY LOAM-brown-stiff to hard HA 1.25 25 Ρ HA 2.00 24 Ρ HA 1.50 19 3.50 НА 4.50 20 616.62 Auger Refusal @ -11.0'. End Of Boring.



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/28/22

ROUTE	Chicago Street to US Route 30	DE	SCR	IPTIO	N		I-80 Phase II		L0	ogg	ED BY	<u> </u>	ИΒ
SECTION	14		ι	LOCA	TION	SW 1/	4, SEC. 14, TWP. T35N, ing 1765136.923, East i	RNG. R10E	E, 3 rd PN B 746	1,			
COUNTY	Will D	RILLING	ME	THOD			low Stem Auger			(CME A	Automa	itic
STRUCT. NO.	. <u>-</u>		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	L O	U C S	M O I
Station Offset	NWB-022A 774+04 65.4 ft Right face Elev. 635.57		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion		_ ft	H (ft)		Qu (tsf)	S T (%)
12.0" ASPHA			(,	(, ,	(10.7	(70)	After Hrs	-	_ 1. 615.07		(,,,	(10.)	(70)
	brown, gray &	634.57		4			SANDY LOAM-dark br	own-loose	_	▼	2		
spotted black (Fill)	-very stiff to hard			4 5	4.20 B	18					3 2		23
(· ···)			_		В				612.57	_			
				3			CLAY LOAM-brown-ve	ery stiff		_	5		
				3	3.30 B	20	-		040.57		7	2.70 B	21
			<u>-5</u>				End Of Boring @ -25.0		610.57	-25			
				4			backfilled with cuttings						
				6 9	3.50 B	24					1		
0		627.57									1		
CLAY LOAM-	brown-very stiff		_	6						_			
			-10	7 9	3.70 B	18				-30	1		
										_	1		
			_	4									
				6 9	3.70 B	18							
			_							_	1		
				5									
			 -15	7 8	4.80 B	19				-35			
			_										
			_	4	0.00					_	1		
				5 5	2.30 B	20							
				5	0.00	200					1		
				4 5	3.00 B	20							



PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

IPROJECTS/2020/20012 EXP, I-80 FROM CHICAGO ST. TO RT 30,

SOIL BORING LOG

GEO Job No. 20012

Page <u>1</u> of <u>1</u>

Date 3/17/22

FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC ROUTE **SECTION** _____ **LOCATION** _SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM** COUNTY _____ Will ____ DRILLING METHOD __ Hand Auger HAMMER TYPE CME Automatic Surface Water Elev. ______ ft U M STRUCT. NO. _____ L С 0 Stream Bed Elev. ____ n/a ft Station Ρ S 0 ı BORING NO. NWB-023 W S Groundwater Elev.: S Qu Т
 Station
 776+00

 Offset
 105.00ft Right
 First Encounter ___ 630.2 **ft** ▼ Upon Completion _____ ft (ft) (/6") (%) (tsf) Ground Surface Elev. 636.23 ft After _ - Hrs. ____ 8.0" TOPSOIL-black HA 24 CLAY LOAM-brown-medium stiff HA to hard 27 0.75 Ρ HA 1.00 25 Ρ HA 1.00 23 Ρ НА 4.50 19 3.50 626.23 Auger Refusal @ -10.0'. End Of Boring.



BORING 20012_LOG.GPJ IL_DOT.GDT

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/28/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765131.191, Easting 1060080.639 COUNTY Will **DRILLING METHOD** Hand Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. M Surface Water Elev. _ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. __ S NWB-023A Groundwater Elev.: S Н Qu Qu Station _____ Т Т 776+03 First Encounter <u>Dry</u> ft Offset 68.5 ft Right **Upon Completion** <u>n/a</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. __ 637.13 (tsf) (%) After - Hrs. (tsf) (%) 12.0" ASPHALT CLAY LOAM-brown & gray-very stiff to hard (continued) 636.13 22 5 CLAY LOAM with STONE-brown-hard (Fill) 8 6 4.00 2.75 17 8 10 Ρ Ρ 634.13 CLAY LOAM-brown & gray-very stiff to hard 4 7 6 5.40 10 4.60 21 17 8 В 12 612.13 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 5 2.00 24 6 Р 4 4 1.20 В 4 8 3.75 23 Ρ 7 5.60 12 12 В -15 7 8 3.20 17 13 5 2.00 18 9 Р



PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

NPROJECTS\2020\20012 EXP, I-80 FROM CHICAGO ST. TO RT 30,

SOIL BORING LOG

GEO Job No. 20012

Page <u>1</u> of <u>1</u>

Date 3/16/22 FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC ROUTE **SECTION** _____ **LOCATION** _SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM** COUNTY _____ Will ____ DRILLING METHOD __ Hand Auger HAMMER TYPE CME Automatic Surface Water Elev. _____ n/a ft U M STRUCT. NO. _____ С L 0 Stream Bed Elev. n/a **ft** Station Ρ S 0 ı BORING NO. NWB-024 W S Groundwater Elev.: S Qu Т
 Station
 778+00

 Offset
 104.70ft Right
 First Encounter Dry ft Upon Completion Dry ft (ft) (/6") (%) (tsf) **Ground Surface Elev.** 637.40 After _ - Hrs. _ _ - ft TOPSOIL-black HA 28 636.40 CLAY LOAM-brown-stiff to hard HA 1.50 25 НА Ρ 1.75 26 Ρ HA 3.25 Ρ HA 4.50 16 Auger Refusal @ -8.0'. End Of Boring.



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/28/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1060278.846, Easting 176135.13 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M М Surface Water Elev. _ STRUCT. NO. Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. NWB-024A S S Groundwater Elev.: S Н Qu Qu Station _____ Т Т 778+00 First Encounter 623.692 ft Offset 68.7 ft Right **Upon Completion** _____Dry__ft (ft) (/6") (ft) (/6") Ground Surface Elev. 638.69 (tsf) (%) After ___ Hrs. (tsf) (%) 11.0" ASPHALT CLAY LOAM-brown-stiff to very 637.78 stiff (continued) CLAY LOAM with STONE-brown 6 & black-very stiff (Fill) 11 8 2.50 2.30 24 8 9 Ρ В 635.69 CLAY LOAM-brown-stiff to very stiff (Fill) 4 6 3 9 1.90 2.10 25 22 7 В 9 613.69 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 4 2.20 19 5 В 3 3 1.50 5 Р 3 3 1.90 22 В 625.69 SITLY CLAY-dark brown & 3 gray-very stiff 5 2.00 27 7 Ρ 623.19 CLAY LOAM-brown-stiff to very 5 2.20 20 8 8 1.50 18 8 Ρ

1/3/23



PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

NPROJECTS\2020\20012 EXP, I-80 FROM CHICAGO ST. TO RT 30,

SOIL BORING LOG

GEO Job No. 20012

Page <u>1</u> of <u>1</u>

Date 3/16/22 FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC ROUTE **SECTION** _____ **LOCATION** _SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM** COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic STRUCT. NO. _____ U M Surface Water Elev. _____n/a ft С L 0 Stream Bed Elev. ____ n/a ft Station Ρ S 0 ı BORING NO. NWB-025 W S Groundwater Elev.: S Qu Т
 Station
 780+00

 Offset
 126.20ft Right
 First Encounter Upon Completion _____ ft (ft) (/6")(%) (tsf) **Ground Surface Elev.** 636.10 After _ - Hrs. TOPSOIL-black HA 29 CLAY LOAM-brown & gray HA spotted black-stiff to very stiff (Fill) 1.00 20 HA Ρ 1.50 14 Ρ HA 2.50 Ρ НА 1.00 33 628.60 Auger Refusal @ -7.5'. End Of Boring.



BORING 20012_LOG.GPJ IL_DOT.GDT

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/18/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765141.253, Easting 1060480.479 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S S BORING NO. __ NWB-025A Groundwater Elev.: S Н S Qu Qu Station __ Т Т 780+02 First Encounter <u>Dry</u> ft Offset 68.8 ft Right **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. (tsf) (%) ASPHALT 619.84 639.34 CLAY LOAM-gray-very stiff to hard 6 CLAY LOAM-brown & gray-very stiff to stiff (Apparent Fill) 4 9 3.80 18 3.90 20 4 13 В В 2 5 3 25 1.70 24 4.60 22 50/2' 5 В -25 615.34 End Of Boring @ -25.0'. Boring backfilled with cuttings. 4 5 1.70 18 5 В 3 4 2.80 7 В 2 3.00 3 19 В 2 2 2.25 20 3 Ρ 624.84 SILTY CLAY LOAM-brown & gray-stiff 7 12 1.25 18 10 Ρ 2 4 1.75 20 7 Ρ



Z:/PROJECTS/2020/20012 EXP, 1-80 FROM CHICAGO ST. TO RT 30, PTB 194-9/20012 BORING LOGS/20012_LOG.GPJ 3/9/23

SOIL BORING LOG

GEO Job No. 20012

Page $\underline{1}$ of $\underline{1}$

Data 2/16/22

	FAI Route 80 from								Date _	3/16/22
ROUTE	Chicago Street to U	S DF:	SCRI	PTION			I-80 Phase II	10	OGGED BY	TC
									_	
SECTION _	-		_ L	OCAT	ION _	SW 1/	4, SEC. 14, TWP. T35N	, RNG. R10E, 3 rd PN	<u> </u>	
	Will		ME	THOD			Hand Auger	HAMMER TYPE	CME Au	tomatic
BORING NO Station Offset Ground Su 6.0" CINDEI	D	nt	D E P T H	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev Stream Bed Elev Groundwater Elev.: First Encounter Upon Completion After Hrs.	n/aft ft ft		
hard		638.50		HA	2.75 P 4.50 P	24 12				
Auger Refus Boring.	sal @ -5.5'. End Of									



BORING 20012_LOG.GPJ IL_DOT.GDT

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/17/22

FAI Route 80 from Chicago Street to US Route 30 I-80 Phase II **ROUTE** DESCRIPTION LOGGED BY **LOCATION** SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765147.173, Easting 1060679.935 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U STRUCT. NO. M M Surface Water Elev. Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S S BORING NO. ___ NWB-026A Groundwater Elev.: S Н S Qu Qu Station _____ Т Т 782+01 First Encounter 625.84 ft Offset 69.2 ft Right **Upon Completion** ft (ft) (/6") After ___ Hrs. (ft) (/6") Ground Surface Elev. 641.84 ft (tsf) (%) ft (tsf) (%) 6.0" ASPHALT 641.34 621.34 CLAY LOAM-brown & gray SILTY SAND, GRAVEL & spotted black-stiff to hard (Fill) 3 FRACTURED ROCK-brown-very 25 dense 6 50/2 3.40 15 4 В 50/2' 6 6.10 6 18 14 6 В 616.84 End Of Boring @ -25.0'. Boring backfilled with cuttings. 2 5 1.50 25 5 В 2 3 1.40 3 В 2 4 1.00 27 3 Ρ 3 1.00 3 2 Ρ -15 626.34 CLAY LOAM-brown-very stiff to hard 5 7 5.90 19 11 7 10 3.70 19

12



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, Northing 1765125.06, Easting 1060880.564 SECTION Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ NWB-027 S S Groundwater Elev.: Station S Н S Qu Qu Т Т 784+01 First Encounter <u>Dry</u> ft Offset 76.5 ft Right **Upon Completion** Dry ft (ft) (/6") (ft) (/6") Ground Surface Elev. 643.17 (tsf) (%) After ___ Hrs. (tsf) (%) 6.0" CLAYEY TOPSOIL-brown & backfilled with cuttings. 45 black 4 CLAY LOAM-brown & gray-very stiff 5 3.00 18 5 Ρ 5 8 3.10 11 В 6 7 2.00 16 10 Ρ becoming gray @ -8.0' 8 10 3.50 12 В 5 6 2.75 18 Ρ 5 2.00 2 9 Ρ -15 6 10 3.10 20 12 625.17 SILTY LOAM-brown-very dense 50/1 624.17 Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring

1/3/23

BORING 20012_LOG.GPJ IL_DOT.GDT



BORING 20012_LOG.GPJ IL_DOT.GDT

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, Northing 1765152.567, Easting 1061085.365 SECTION COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U STRUCT. NO. M М Surface Water Elev. _ Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W NWB-028 BORING NO. ___ S S Groundwater Elev.: S Н
 Station
 786+U/

 Offset
 76.5 ft Right
 Qu Qu Т Т First Encounter 632.923 ft **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 643.92 ft (tsf) (%) After - Hrs. (tsf) (%) 643.42 6.0" TOPSOIL-black Bedrock. End Of Boring. Boring 44 backfilled with cuttings. CLAY LOAM-brown & gray-very 3 stiff 4 3.50 18 5 Ρ 7 4 3.40 5 В 6 12 3.00 17 12 Р becoming gray @ -8.0' 6 6 2.75 11 Р 8 8 2.75 19 10 Ρ 4 2.00 6 7 Ρ 6 2.00 22 9 Ρ 625.92 SILTY CLAY LOAM-brown & gray-very stiff 50/4" 2.00 18 624.42 Auger Refusal @ -19.5'. Possible



BORING 20012_LOG.GPJ IL_DOT.GDT

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**. SECTION Northing 1765160.651, Easting 1061297.814 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. __ NWB-029 S S Groundwater Elev.: S Н S Qu Qu Station __ Т Т 788+19 First Encounter <u>Dry</u> ft Offset 75.1 ft Right **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") **Ground Surface Elev.** 645.65 (tsf) (%) Hrs. (tsf) (%) 6.0" CLAYEY TOPSOIL-brown & Auger Refusal @ -20.0'. Possible Bedrock. End Of Boring. Boring 33 black backfilled with cuttings. CLAY LOAM-brown & gray-stiff to 4 very stiff 4 3.00 22 8 Ρ 3 3 2.50 18 5 Ρ 4 2.50 23 12 В 4 1.75 7 Р 4 8 3.40 25 10 В 632.65 SILTY LOAM-brown-loose 3 3 5 630.15 CLAY LOAM-gray-very stiff 7 9 3.50 15 9 Ρ 627.65 CLAYEY GRAVEL-brown-dense 5 12 27 625.65



BORING 20012_LOG.GPJ IL_DOT.GDT

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY **ROUTE** DESCRIPTION LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM, Northing 1765122.567, Easting 1061483.393 SECTION COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M M STRUCT. NO. Surface Water Elev. Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ NWB-030 S Groundwater Elev.: S Н S Qu Qu Т Т First Encounter <u>Dry</u> ft **Upon Completion** Dry ft (ft) (/6") (ft) (/6") Ground Surface Elev. 653.25 ft (tsf) (%) After ___ Hrs. (tsf) (%) 6.0" TOPSOIL-black 652.75 backfilled with cuttings. 28 CLAY LOAM with 4 Stone-brown-very stiff (Fill) 5 2.20 14 6 650.25 CLAY LOAM-brown & gray-very stiff to hard 4 5 2.60 7 В 5 5 4.40 25 В 5 4.20 В 5 6 3.50 15 Ρ 640.25 SILTY CLAY LOAM-brown-very stiff 6 6 2.50 6 Ρ 637.75 CLAY LOAM-brown-very stiff 5 7 3.40 17 11 50/1 NR 634.25 Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY **ROUTE** DESCRIPTION **LOCATION** SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765181.4, Easting 1061697.3 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ S S NWB-031 Groundwater Elev.: Station ____ S Н S Qu Qu Т Т 792+19 First Encounter <u>Dry</u> ft Offset 66.8 ft Right **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. 649.30 ft (tsf) (%) After - Hrs. (tsf) (%) 648.80 628.80 6.0" CLAYEY TOPSOIL-dark brown & black 38 Auger Refusal @ -20.5'. Possible SILTY CLAY-brown-hard 3 Bedrock. End Of Boring. Boring backfilled with cuttings. 5 4.00 22 6 Ρ 646.30 CLAY LOAM-brown-very stiff 5 5 2.20 7 В becoming gray @ -5.5' 5 8 2.70 19 8 В 5 3.00 8 Р 4 5 2.20 22 В 5 3.00 8 12 Ρ -15 5 3.50 14 8 Ρ 631.30 FRACTURED ROCK-brown-very dense 15 23 6 50/2"



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Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

ROUTE	Route 30	DE	SCR	IPTIO	N		I-80 Phase II		LO	GGED BY _	TC
SECTION	14			LOCA	ΓΙΟΝ	SE 1/4	, SEC. 14, TWP . T35N	, RNG. R10E,	3 rd PM,		
COUNTY	Will D	RILLING	ME	THOD			ing 1765189, Easting low Stem Auger		YPE _	CME Auto	matic
STRUCT. NO Station	-		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a n/a	ft ft		
Station Offset	NWB-032 794+46 66.3 ft Right te Elev. 649.50		H	W	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry Dry	ft		
	olack	649.00				+ , ,					
	own & gray-very	049.00	-			55					
stiff	own & gray-very			5 5	3.00	18					
			_	6	Р						
			_	5	0.00	0.1					
			-5	5 5	2.20 B	21					
			_	5							
				8	3.00 P	21					
becoming gray (@ -8.0'			4	2.00	20					
			-10	4	Р						
SILTY CLAY-gra	ay-medium stiff	639.00		2							
			_	3	0.50 P	15					
		636.50	_								
CLAY LOAM-gr	ay-very stiff		_	3							
			-15	5 7	2.50 B	16					
			_	5							
				15 50/1"	2.50 P	16					
Auman Dafras I C	20 FL D	631.00		50/1"							
Bedrock. End O backfilled with c	⑦ -18.5'. Possible f Boring. Boring uttings.		-20			NR					



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Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

ROUTE	Route 30	DES	SCR	IPTION			I-80 Phase II		LO	GGED BY _	TC
SECTION	14			LOCAT	TION _	SE 1/4	., SEC. 14, TWP. T35N ing 1765172.834, Eas	N, RNG. R10E,	3 rd PM ,		
COUNTY	Will DI	RILLING	ME	THOD			low Stem Auger			CME Auto	matic
Station	NWB-033 100+69		D E P T H	O W	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter	Dry	π ft		
Offset	34.3 ft Right Elev. 647.14	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs.	Dry	ft ft		
CLAY LOAM with (Fill)		646.14				14			•		
ORGANIC SILTY CLAY-black-med				5 9 10		50					
SILTY CLAY-dar gray-very stiff (Fi		644.14		7							
		641.64	-5	28 13	2.70 B	25					
CLAY LOAM-gra	y-very stiff (Fill)			5 10 4		NR					
SILTY CLAY LO/ gray-stiff to very		639.14	-10	6 5	2.20 B	20					
				6 5 8	1.50 P	13					
			-15	7 8 13	3.00 P	18					
FRACTURED RO		631.64 630.64		50/1"							
Auger Refusal @ Bedrock. End Of backfilled with cu	Boring. Boring			-		5					



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

Chicago Street to Route 30	US DE	SCR	IPTIO	N		I-80 Phase II	LC	OGGED BYTC_	_
SECTION 14			LOCA	TION	SE 1/4	, SEC. 14, TWP. T35N, ing 1765181.517, East	RNG. R10E, 3 rd PM,		
COUNTY Will	DRILLING	3 ME	THOD					CME Automatic	_
STRUCT. NO		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft		
BORING NO. NWB-034 Station 102+56 Offset 21.6 ft Rig Ground Surface Elev. 646	ht	H (ft)		Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.			
6.0" TOPSOIL-black									
CLAY LOAM-brown-very stiff t	0				26				
hard		_	5	4.00	23				
			7	B	25				
becoming gray @ -3.0'			3						
			4	3.00	17				
		<u>-5</u>	5	Р					
			-						
			6						
			6	3.00 P	17				
		_		<u>'</u>					
			4						
			5	2.20	21				
		-10	10	В					
SILTY CLAY LOAM-brown &	635.55		-						
gray-very stiff to hard			5						
			6 7		15				
		_	'						
		-	6	4.50	17				
		-15	20	P 7.00	''				
Auger Refusal @ -16.0'. Possi	630.05		50/1'		NR				
Bedrock. End Of Boring. Borin backfilled with cuttings.	g	_							
backilled with cuttings.		_	-						
			1						
			-						



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	Route 30	DES	SCR	IPTION	١		I-80 Phase II		_ LOG	GED BY _	DJ
SECTION	14		_ ı	LOCAT	TION _	SE 1/4	, SEC. 14, TWP. T35N ing 1765187.481, Eas	I, RNG. R10E, 3	B rd PM ,		
COUNTY	Will DI	RILLING	ME	THOD			low Stem Auger	•		CME Auto	matic
STRUCT. NO Station			D E P	B L O	U C S	M 0 -	Surface Water Elev. Stream Bed Elev.	n/a n/a	ft ft		
Station Offset	NWB-035 104+97 10.4 ft Right ce Elev. 644.55		T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry Dry	ft		
6.0" TOPSOIL-b		644.05									
CLAY LOAM-bro				3		35					
				4 6	1.80 B	22					
SILTY CLAY LC	AM brown 9	641.55									
gray-stiff	AW-DIOWIT &			3	1.75	26					
		020.05	-5	_	P	20					
CLAY LOAM-bro	own & gray-very	639.05		4 5 7	3.50 P	22					
			-10	6 6 9	3.00 P	21					
				4 5 7	3.00 P	23					
CLAY LOAM wit	th Gravel-brown &	631.55	_	4							
		620.05	-15	8	2.00 P	18					
SILTY SAND & ROCK-very den	se	629.05 628.05	- 	50/1"							
Auger Refusal (Bedrock. End O backfilled with c	② -16.5'. Possible f Boring. Boring uttings.					16					
			-20	-							



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM. SECTION Northing 1765155.812, Easting 1062682 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. M Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. __ NWB-036 S S Groundwater Elev.: S Н S Station _____ Qu Qu Т Т 106+69 First Encounter <u>Dry</u> ft Offset 38.3 ft Right **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. <u>644.30</u> ft (tsf) (%) After -Hrs. (tsf) (%) 643.97 4.0" TOPSOIL-black Bedrock. End Of Boring. Boring 31 backfilled with cuttings. SILTY CLAY-dark brown-stiff 3 3 1.00 27 4 Ρ 641.30 CLAY LOAM-brown-stiff to very 5 8 3.50 21 11 Ρ 5 6 3.00 21 8 Р 3 3 3.50 7 Р 5 2.40 21 В becoming gray @ -13.0' 3 2.50 6 Ρ -15 4 6 3.00 17 8 Ρ 626.30 FRACTURED ROCK-very dense 50/1 9 624.80 Auger Refusal @ -19.5'. Possible



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

ROUTE	Route	30	DE	SCR	IPTION	1		I-80 Phase II	L	ogg	ED BY		<u>)J</u>
SECTION		14			LOCAT	TION _	SE 1/4 North	, SEC. 14, TWP. T35N, RNG. R108 ing 1765157.331, Easting 106278	E, 3 rd PN 84.69	l,			
COUNTY	Will	D	RILLING	ME	THOD			low Stem Auger HAMMER		(CME A	utoma	tic
STRUCT. NO. Station BORING NO. Station Offset Ground Surfa	NW 10 32.9	/B-037 07+72 ft Right		D E P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After Hrs.	<u>·</u> ft · ft	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T (%)
6.0" TOPSOIL			641.96		, ,	, ,	` '	backfilled with cuttings.		, ,	, ,	` /	
CLAY LOAM-k stiff					3 4 7	2.50 P	27	5					
					5 8 9	2.70 B	20			-25			
					4 4 5	1.50 P	20						
				-10	3 3 5	1.50 P	25			-30			
					5 5 7	3.00 P	26						
				-15	5 3 4	1.00 P	25			-35			
					4 6 10	2.00 P	17						
Auger Refusal Bedrock. End			623.46	-20	-	2.20 B	24			-40			



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

Chicago Street to US ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R30E, 3rd PM, SECTION Northing 1765471.035, Easting 1064874.901 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M М STRUCT. NO. Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. NWB-038 S Groundwater Elev.: Station 824 5 123.2 ft Left S Н Qu Qu Т Т First Encounter 627.757 ft **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. ft (tsf) (%) 12.0" TOPSOIL-black 614.26 37 SILTY CLAY-gray-stiff 3 3 SILTY CLAY-brown & gray-stiff 4 1.20 4 25 1.50 21 6 5 В Ρ LOAM-brown & gray-very loose to SILTY LOAM-gray-medium dense 4 loose 1 2 6 23 17 2 5 -25 609.76 End Of Boring @ -25.0'. Boring backfilled with cuttings. becoming gray @ -5.5' 4 3 27 3 626.76 SILTY CLAY-gray-stiff 3 3 1.25 24 3 Р 624.26 SILTY SAND with Gravel-gray-loose 2 3 28 4 3 3 3 3 15 4 616.76 SILT-gray-loose 3 4 24 3

1/3/23



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

ROUTE _	Route	30	DE	SCR	IPTIO	N		I-80 Phase II		LC	OGG	ED BY	<u> </u>)J
SECTION		13		ı	LOCA	TION	SW 1/	4, SEC. 13, TWP. T35N, ing 1765426.658, East i	, RNG . R30E	E, 3 rd PN	l,			
COUNTY	Will	D	RILLING	ME	THOD			low Stem Auger			(CME A	utoma	tic
STRUCT. N	NO	-		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	B L O	U C S	M O I
Station _ Offset _	10. NW 82 114	26+04 1 ft Left		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	630.909	_ ft <u>▼</u> _ ft	H (ft)	W S (/6")	Qu (tsf)	S T (%)
	Surface Elev. ₋ SOIL-black	639.41	π	(11)	(10)	(131)	(/0)	Aπer <u> </u>	-	_ π 618.91	(11)	(10)	((31)	(/0)
12.0 10F	SOIL-DIACK		638.41	_			29	SAND-brown-medium	dense	010.91	_	-		
CLAY LOA	M-brown & gr	ray-stiff			3							5		
					3	1.10	21					10		25
			000.44	_	3	В					_	10		
SANDY CI	LAY LOAM-br	own &	636.41		-							-		
gray-medit		OWITO		_	1						_	6		
					2	0.50	23					3		17
				5	2	Р				614.41	-25	10		
SANDATO	DAM-brown-lo		633.91		_			End Of Boring @ -25.0 backfilled with cuttings	0'. Boring		_	-		
SANDILO	JAMINI-DI OWI I-IO	oose			3			baokimoa wiai oatango				1		
					2		26				_			
				_	3									
			_											
				<u> </u>	3						_	-		
					2		24					1		
				-10	33						-30			
011 = 11 0 1 1			628.91	_							_	-		
SILTY SAN	ND with wn-very loose	e to loose			2									
Oravor pro	Tim vory loods	3 10 10000		_	2		25				_	-		
					2									
				_	1						_	-		
					2		20					-		
				-15	2						-35	1		
			623.91]		
SAND-brov	wn-loose				_							-		
				_	3		33				_	-		
					2							1		
			621.41	_							_	†		
CLAY LOA	M-gray-stiff													
					3	1.50	17					-		
				-20	6	1.50 P	''				-40	1		



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

ROUTE	Route 30	DE	SCR	IPTIO	N		I-80 Phase II	LC)GG	ED BY	<u> </u>)J
SECTION	13		ı	LOCA	TION	SE 1/4	, SEC. 13, TWP. T35N, RNG. R10B ing 1765469.864, Easting 106527	<u>=</u> , 3 rd PM	,			
COUNTY	Will DI	RILLING	ME	THOD			low Stem Auger HAMMER		(CME A	utoma	itic
STRUCT. NO	-		D E P	1	UCS	M O I	Surface Water Elev. n/a Stream Bed Elev. n/a	ft ft	D E P	1	U C S	M O I
BORING NO Station Offset	828+02 109.5 ft Left	<u> </u>	T H	S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	ft	H		Qu	S T
Ground Surface	<u> </u>	ft	(π)	(/6")	(tsf)	(%)	After Hrs			(/6")	(tsf)	(%)
12.0" TOPSOIL-bla	ack	633.46	_			43	SAND-gray-medium dense	613.96		-		
SILTY CLAY-brow	n & gray-stiff	033.40		3		70	SAND-gray-medium dense			4		
OILTT OLAT-BIOW	ii & giay-siii		_	3	1.75	23			_	7		16
				3	Р					11		
		631.46										
SANDY LOAM-bro	wn & gray-very		_						_			
loose				1 2		40				7		00
			_	_		18		000.40	_	_		22
		628.96	5				End Of Boring @ -25.0'. Boring	609.46	-25	-		
SILTY CLAY-gray-	medium stiff	020.00	-	1			backfilled with cuttings.		_	-		
Cili Clarify				3						1		
		•	v _	2	0.80	27						
				3	В							
		626.46								1		
CLAY LOAM-gray-	-stiff to very stiff		_	3					_	-		
				4	1.30	25				1		
			-10	1	В	20			-30	1		
										1		
			_							1		
				3								
				4 7	2.50	24						
		004.40	_	1	Р				_	-		
SAND-gray-loose		621.46								-		
SAND-gray-100se			_	2					_	1		
				3		23				1		
			-15	5					-35	1		
		618.96										
CLAY LOAM-gray-	very stiff											
			_	5	2 40	20			_	-		
				11	2.10 B	20				-		
			_	''					_	1		
										1		
			_	4					_	1		
				5	3.25	27]		
			-20	9	l P	1			-40			



SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/15/22

ROUTE	hicago Street to US Route 30	DE	SCR	IPTIO	N		I-80 Phase II		L0	ogg	ED BY	, [)J
SECTION	13		ı	LOCA	TION	SW 1/	4, SEC. 13, TWP. T35N, ing 1765464.134, East i	RNG. R10E	, 3 rd PN	1,			
COUNTY	Will D	RILLING	ME	THOD		Hol	low Stem Auger	HAMMER	ГҮРЕ	(CME A	Automa	itic
STRUCT. NO. Station	<u>-</u>	<u> </u>	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	ft ft	D E P	L O	U C S	M O I
BORING NO. Station	NWB-041 830+03		T H	W S	Qu	S	Groundwater Elev.: First Encounter	624 607	ft▼	T H		Qu	S
	830+03 98 ft Left face Elev. 633.61		(ft)	(/6")	(tsf)	(%)	Upon Completion _		ft	(ft)	(/6")	(tsf)	(%)
12.0" TOPSO			\			35	SAND-gray-medium de (continued)		·	_			
CLAY LOAM	-brown & gray-stiff	632.61		2		33	(commueu)				5		
				3	1.00 P	27					6 7		17
							-						
			_	2							4		
			 -5	2	1.00 B	29			608.61	 -25	5		NR
							End Of Boring @ -25.0 backfilled with cuttings	D'. Boring	-				
				4			backilled with cuttings	·-					
				5 6	1.30 B	23					<u> </u> 		
04115.1		625.61	_										
SAND-brown-	· loose	•	v –	3						_			
		_	-10	3		23				-30			
OL AV	4:66	623.11								_			
CLAY-gray-ve	ery stiff			4									
				5 10	2.40 B	20							
			_	10	В					_			
				3						_			
				4	2.50	20							
			-15	6	Р					-35			
			_										
			_	3 5	2.00	28				_	-		
			_	6	P P								
SAND-gray-m	aedium dense	615.61		_									
OAND-glay-II	ieuiuiii ueiise			4									
			20	7 10		17				40			



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

Chicago Street to US Route 30 ROUTE DESCRIPTION I-80 Phase II **LOGGED BY** DJ LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM, 13 SECTION Northing 1765472.738, Easting 1065675.383 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M М Surface Water Elev. _ STRUCT. NO. _____ Ε Ε С n/a **ft** L С 0 0 Stream Bed Elev. Station Ρ S S Ρ 0 0 ı Т Т W Т W BORING NO. NWB-042 S S Groundwater Elev.: Station 832101 99.8 ft Left S Н Qu Qu Т Т First Encounter 626.343 ft **Upon Completion** ft (ft) (/6") (ft) (/6") After ___ Hrs. **Ground Surface Elev.** 633.84 (tsf) (%) ft (tsf) (%) 12.0" TOPSOIL-black 613.34 6 SAND-gray-medium dense 3 4 CLAY LOAM-brown & gray-stiff to very stiff 4 5 1.50 24 25 6 6 Ρ 610.84 CLAY-gray-stiff 3 3 5 2.70 23 4 1.00 26 6 В 6 Ρ 608.84 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 3 2.20 24 5 В 625.84 CLAYEY SAND-brown-loose to medium dense 3 3 26 3 4 5 22 620.84 SILTY SAND-brown-loose to medium dense 2 3 4 -15 3 4 22 5 3 5 26 6

1/3/23



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

Chicago Street to US Route 30 I-80 Phase II **LOGGED BY** DJ ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765469.851, Easting 1065873.35 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M М STRUCT. NO. _____ Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. NWB-043 S S Groundwater Elev.: Station 834102 90.7 ft Left S Н Qu Qu Т Т First Encounter 627.361 ft **Upon Completion** ft (ft) (/6") (ft) (/6") **Ground Surface Elev.** 633.86 (tsf) (%) After _ - Hrs. ft (tsf) (%) 12.0" TOPSOIL-black 613.36 44 632.86 CLAYEY SAND & 3 GRAVEL-brown-medium dense 9 SILTY CLAY-brown & gray-stiff 2 1.25 11 27 16 3 10 Ρ 610.86 SAND with Gravel-gray-loose 2 3 3 1.50 26 4 21 3 Ρ 5 608.86 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. SILTY SAND & gravel-brown-very loose 1 1 28 1 625.86 SANDY LOAM-brown-very loose to loose 2 2 30 2 3 5 23 4 620.86 SILTY SAND with GRAVEL-brown-loose 3 4 5 -15 3 3 24 6 615.86 SAND-brown & gray-dense 12 14 28 16



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765451.294, Easting 1066075.183 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. NWB-044 S Groundwater Elev.: Station _____ S Н Qu Qu Т Т 836+03 First Encounter 633.108 ft Offset 65.9 ft Left **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 639.61 (tsf) (%) After ___ Hrs. ft (tsf) (%) 12.0" TOPSOIL-black 619.11 71 CLAY LOAM-gray-stiff to very stiff 2 3 SILTY CLAY-dark brown, gray & black-stiff 4 5 1.20 28 1.75 14 5 5 В Ρ 2 3 3 1.75 4 2.00 13 23 4 Ρ 6 614.61 634.11 End Of Boring @ -25.0'. Boring SILTY CLAY LOAM-brown & backfilled with cuttings. gray-very loose 1 1 25 1 631.61 SANDY CLAY LOAM-gray-loose 1 3 25 629.11 CLAY LOAM-gray-very stiff 3 6 2.70 21 7 В 3 2.20 6 9 В 3 5 2.75 24 7 Ρ 621.61 SILTY LOAM-gray-medium dense 2 4 21 6

1/3/23



BORING 20012_LOG.GPJ IL_DOT.GDT

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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/14/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765480.818, Easting 1066275.651 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W __<u>N</u>WB-045 S BORING NO. ___ S Groundwater Elev.: S Н Qu Qu Station _____ Т Т 838+05 First Encounter 628.641 ft Offset 89.1 ft Left **Upon Completion** ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. ft (tsf) (%) 12.0" TOPSOIL-black 614.64 72 SILTY SAND & 3 GRAVEL-gray-medium dense 4 SILTY CLAY-brown & gray-medium stiff to stiff 3 5 0.50 24 18 4 9 Ρ 612.14 SILTY CLAY LOAM-gray-stiff 2 4 2 5 1.00 26 1.50 14 3 Ρ 6 Ρ 610.14 629.64 End Of Boring @ -25.0'. Boring SANDY LOAM-brown-loose to backfilled with cuttings. medium dense 2 4 21 6 4 5 17 624.64 CLAY LOAM-gray-stiff to very stiff 3 4 2.50 20 6 Ρ 3 1.80 5 7 В 619.64 SILT-gray-loose to medium dense 5 7 19 4 2 2 1 4



BORING 20012_LOG.GPJ IL_DOT.GDT

Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/21/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM SECTION Northing 1765353.593, Easting 1068132.123 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. NWB-046 S S Groundwater Elev.: Station S Н Qu Qu Т Т 856+50 First Encounter 623.334 ft Offset 99 ft Right **Upon Completion** (ft) (/6") ft (ft) (/6") Ground Surface Elev. <u>646.83</u> (tsf) (%) After - Hrs. (tsf) (%) 646.33 6.0" TOPSOIL-black CLAY LOAM-brown & gray-stiff to 39 very stiff (continued) CLAY LOAM-brown & gray-stiff to 3 4 very stiff 3 5 1.00 24 2.50 21 3 7 В Ρ 623.83 SILTY CLAY-gray-very stiff 4 3 3 6 1.50 23 2.50 20 5 Ρ 12 621.83 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 4 5 2.00 21 8 В 5 3.10 13 В becoming gray @ -10.5' 4 5 3.00 20 Ρ 6 2.75 6 7 Ρ 2.50 21 6 Ρ 3 4 2.75 21 6



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

Chicago Street to US Route 30 DESCRIPTION I-80 Phase II **LOGGED BY** DJ ROUTE **LOCATION** SE 1/4, **SEC.** 13, **TWP**. T35N, **RNG**. R10E, 3rd **PM**, SECTION Northing 1765362.44, Easting 1068329.028 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M М Surface Water Elev. _ STRUCT. NO. _____ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ NWB-047 S S Groundwater Elev.: S Н
 Station
 585753

 Offset
 93.5 ft Right
 Qu Qu Т Т First Encounter 624.352 ft **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. __ 645.35 (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-brown & gray-very TOPSOIL-black 39 stiff (continued) 4 6 5 6 2.00 2.50 35 22 6 7 Ρ Ρ 642.35 622.35 CLAY LOAM-brown & gray-very SILT-gray-medium dense 5 stiff 5 5 5 3.00 25 20 6 Ρ 6 620.35 End Of Boring @ -25.0'. Boring backfilled with cuttings. 8 10 2.25 24 12 becoming gray @ -8.0' 5 5 2.50 6 Р 4 4 2.50 20 Ρ 6 2.25 20 6 Ρ 5 2.50 28 7 Ρ 5 5 3.25 21 6 Ρ



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM, SECTION Northing 1765364.937, Easting 1068534.336 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ NWB-048 S Groundwater Elev.: S Н
 Station
 δ0∪+39

 Offset
 97.5 ft Right
 Qu Qu Т Т First Encounter 621.435 ft **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 644.94 ft (tsf) (%) After ___ Hrs. (tsf) (%) 6.0" TOPSOIL-black 644.44 CLAY LOAM-brown & gray-stiff to 91 very stiff (continued) SILTY CLAY-dark brown & 3 5 gray-stiff 3 6 2.00 1.00 31 21 6 11 Ρ Ρ 621.94 641.94 CLAY LOAM-brown & gray-stiff to SILT-gray-medium dense very stiff 3 9 4 6 2.20 23 19 6 В 6 619.94 End Of Boring @ -25.0'. Boring backfilled with cuttings. 4 5 1.90 22 8 В 5 6 2.50 В becoming gray @ -10.5' 5 3.00 19 Ρ 3.00 5 7 Ρ 5 2.25 22 7 Ρ 3 3 1.50 22 5 Р



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

ROUTE	Route	30	DE	SCR	IPTIOI	N		I-80 Phase II		L0	OGG	ED BY)J
SECTION _		13		_ ι	LOCA	TION _	SE 1/4	, SEC. 13, TWP. T35N,	RNG. R10E	, 3 rd PM	,			
COUNTY	Will	D	RII I ING	. MF	THOD)		ing 1765370.729, East low Stem Auger			(CME A	utoma	tic
	V V III		MELIN		T	<u> </u>	1	l Ctom ragor	_ 11/4/11/11/11			J.V.I.Z 7		
STRUCT. NO Station)	-		D E P	B L O	U C S	М О І	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	L O	U C S	M O I
BORING NO.	86:	2+46		H	W S	Qu	S T	Groundwater Elev.: First Encounter	636.341	_ ft <u>▼</u>	H	W S	Qu	S T
Offset	97.5 face Elev	tt Right 644.84	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion _ After Hrs		_ π ff	(ft)	(/6")	(tsf)	(%)
6.0" TOPSO			644.34		, ,	` '	, ,	CLAY LOAM-brown &				<u> </u>	` '	. ,
CLAY LOAM				_			32	stiff (continued)	g , ,		_	1		
stiff					5							4		
					6	2.00 P	23					7 15	3.00 P	22
				_	0	P				621.84	_	13	- Р	
					1			SILTY LOAM-gray-me	edium dense			1		
				_	5			· - · · · · · · · · · · · · · ·			_	6		
					5	2.00	26					5		17
				5	7	Р		- LO(D : 0.05	OL D. :	619.84	-25	5		
				_	1			End Of Boring @ -25. backfilled with cuttings	o'. Boring		_			
					5			~ ~ ~ · · · · · · · · · · · · · · · ·	•					
					8	2.00	20							
					8	Р					_			
			_		1							1		
				y _	5						_	-		
					5	2.20	20					1		
				-10	8	В					-30			
				_							_			
becoming gra	ay @ -10.5'				6							1		
				_	9	2.20	17				_			
					13	В						1		
				_							_			
					6	3.00	23					1		
				-15	7	P					-35			
												1		
												1		
				_	5	2.50	23				_	1		
					6	2.50 P	23					1		
				_		†					_	1		
]]		
					4	0.00						1		
				-20	4 6	2.00 P	23				-40	1		



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/23/22

ROUTE	Chicago Street to US Route 30	S DE	SCR	IPTIO	N		I-80 Phase II		L0	OGG	ED BY	′ <u> </u>)J
SECTION _	13		I	LOCA	TION	SE 1/4	l, SEC. 13, TWP. T35N, ing 1765378.085, East i	RNG. R10E,	3 rd PM	,			
COUNTY _	Will	DRILLING	ME	THOD			low Stem Auger			(CME A	Automa	tic
STRUCT. NO Station	D		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	ft	D E P	L O	U C S	M O I
Station	NWB-050 864+55		H	W S	Qu	S T	Groundwater Elev.: First Encounter	637.66	ft <u>▼</u>	H		Qu	S T
	96.7 ft Right Irface Elev. 643.6		(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs	-	π ft	(ft)	(/6")	(tsf)	(%)
	IL-black	643.24	_			66	CLAY LOAM-brown-st stiff (continued)	iff to very		_			
CLAY LOAN (Fill)	/I-brown & gray-stiff			3		00	Sun (conunaea)				5		
				4	1.50 P	29					7	2.50 P	23
			_	4	Р				620.66	_	,	P	
							SILT-gray-loose						
				3	1.50	35					3		25
			-5	-	Р				618.66	-25	3		
CLAVIOAN	/I-brown-stiff to very	638.16					End Of Boring @ -25.0 backfilled with cuttings			_			
stiff	n-brown-suit to very	-	<u> </u>	4			Backinioa with cataligo	·•					
				4 7	1.25 P	24							
				'	P					_	1		
				7	3.00	22							
			-10	40	1					-30			
			_	1						_			
				5									
				8	3.00 P	23							
					•								
			_	4						_			
				5	3.00	25							
			-15	7	Р					-35			
becoming gr	av @ -15 5'		_							_			
gi	a, @ 10.0			5									
				5	2.50 P	22					1		
			_							_			
										_			
				6	2.00	22							
			20	8	P					40	1		



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/20/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SW 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765637.174, Easting 1071368.147 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ S NWB-051 Groundwater Elev.: S Н S Qu Qu Station _____ Т Т 889+99 First Encounter <u>Dry</u> ft Offset 85.9 ft Left **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-gray-very stiff TOPSOIL-black 52 (continued) 3 4 CLAY LOAM-brown-stiff to very 4 5 2.50 1.80 21 19 6 8 В Ρ 3 4 5 6 2.50 18 1.50 19 6 Ρ 7 629.02 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 4 2.50 22 6 Р 4 6 3.50 Р 643.52 SILT-gray-medium dense 2 4 21 6 641.02 CLAY LOAM-gray-very stiff 3 3.00 5 8 Ρ -15 3 5 2.50 19 7 Ρ 2 4 2.50 19 6



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/20/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SW 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765645.679, Easting 1071573.275 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. _____ М Surface Water Elev. __ Ε n/a ft Ε С L С 0 0 Stream Bed Elev. Station Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ____ S S NWB-052 Groundwater Elev.: S Н Qu Qu Station _____ Т Т 891+05 First Encounter 645.344 ft Offset 88 ft Left **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 652.34 (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-brown-stiff to very TOPSOIL-black 35 stiff (continued) 651.34 3 4 CLAY LOAM-brown-stiff to very 4 2.00 26 3.50 18 5 6 Ρ Ρ 4 4 5 3.50 6 3.50 18 19 6 Ρ 7 Ρ 627.34 End Of Boring @ -25.0'. Boring backfilled with cuttings. 5 4 1.00 19 4 Р 3 4 2.50 6 Р becoming gray @ -10.5' 4 6 2.50 21 Ρ 3.00 6 21 9 Ρ 6 3.50 20 10 Ρ 6 3.50 19 8 Р



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/20/22

Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY ROUTE **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, SECTION Northing 1765649.616, Easting 1071772.238 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. _____ М Surface Water Elev. __ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ S S NWB-053 Groundwater Elev.: S Н Qu Qu Station _____ Т Т 893+04 First Encounter <u>Dry</u> ft Offset 85.7 ft Left **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-brown-stiff to very TOPSOIL-black 60 stiff (continued) 649.77 3 CLAY LOAM-brown-stiff to very 4 5 1.50 20 2.50 19 4 7 Ρ Ρ 3 4 2.40 4 1.75 19 19 7 В 6 Ρ 625.77 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 5 1.20 19 В 4 6 2.50 8 Р becoming gray @ -10.5' 3 5 3.00 22 Ρ 2 2.00 6 Ρ 2.50 18 6 Ρ 4 2.00 14 6 Р



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/20/22

ROUTE	Chicago Street to U Route 30	S de	SCR	IPTIO	N		I-80 Phase II		L0	ogg	ED BY	<u> </u>	ΟJ
						SE 1/4	I, SEC. 18, TWP. T35N, I	RNG . R11E	, 3 rd PM				
COUNTY _	Will	DRILLING	3 МЕ	THOD)		ing 1765657.34, Eastin low Stem Auger			(CME /	\utoma	tic
STRUCT. N Station	O		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	B L O	U C S	M O I
Station	NWB-054 895+00 87.3 ft Left		H	W S	Qu	S T	Groundwater Elev.: First Encounter	Dry	_ ft - #	H	W S	Qu	S T
Ground St	urface Elev. 649.	62 ft	(ft)	(/6")	(tsf)	(%)		-	_ ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL-b	lack	648.62	_			55	CLAY LOAM-brown-sti stiff (continued)	iff to very		_	3 5	2.50	18
	M-brown-stiff to very			4			,			_	6	Р	
stiff				5 6	2.00 P	30					_		
										_	1		
			_	3						_	3		
				4	1.75 P	25			204.00		4 7	2.50 P	18
			5		F		End Of Boring @ -25.0)'. Boring	624.62	-25			
				4			backfilled with cuttings]		
				6	1.80	20							
			_	8	В					_	1		
becoming g	ray @ -8.0'		_							_			
				3	2.75	17					-		
			-10	-	P					-30			
			_							_	_		
				3						_			
				4 6	3.00 P	20							
										_			
			_	3						_			
				4	2.50	20							
			-15	5	P					-35			
			_	1							1		
			_	3 5	1.80	19				_	-		
				7	В					_	1		
											-		
				4	2 50	10					1		
			20	7	2.50	19				40	1		



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/9/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY **ROUTE** DESCRIPTION **LOCATION** SE 1/4, SEC. 18, TWP. T35N, RNG. R11E SECTION Northing 1765666.196, Easting 1072167.916 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В U В M STRUCT. NO. M Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ S NWB-055 Groundwater Elev.: S Н Qu Qu Station _____ Т Т 897+00 First Encounter 628.05 ft Offset 89.9 ft Left **Upon Completion** ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After - Hrs. ft (tsf) (%) 628.55 TOPSOIL-black 27 SILT-gray-medium dense 2 3 CLAY LOAM-brown & gray-stiff to 2 very stiff 4 1.00 22 21 3 6 Ρ 626.05 SILTY CLAY LOAM-gray-stiff 4 5 3.10 6 1.50 17 10 В 7 Ρ 624.05 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 5 6 1.80 22 7 В 11 8 1.50 6 Р 638.05 50/5" COBBLES & BOULDERS-very dense CLAY LOAM-gray-very stiff 3 2.25 5 6 Ρ -15 3 5 2.25 22 7 Ρ 3 4 2.75 21 7



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/9/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765671.745, Easting 1072370.697 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ S S NWB-056 Groundwater Elev.: S Н S Qu Qu Station _____ Т Т 899+03 First Encounter <u>Dry</u> ft Offset 86.1 ft Left **Upon Completion** Dry ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-brown-very stiff TOPSOIL-black 43 (continued) 648.34 2 3 SILTY CLAY-dark brown & 3 5 gray-stiff 1.40 29 3.10 17 4 6 В В 646.34 CLAY LOAM-brown-very stiff 3 3 4 5 2.20 18 3.50 16 6 В 8 -25 624.34 End Of Boring @ -25.0'. Boring backfilled with cuttings. 4 5 2.50 18 7 Р 5 6 2.20 В becoming gray @ -10.5' 5 6 2.50 17 Ρ 5 6 3.10 8 В 3 2.50 22 6 Ρ 3 5 2.25 20

7



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/9/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765682.871, Easting 1072573.396 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M М STRUCT. NO. Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ S NWB-057 Groundwater Elev.: S Н S Qu Qu Station _____ Т Т 901+06 First Encounter <u>Dry</u> ft Offset 93.8 ft Left **Upon Completion** Dry ft (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After - Hrs. (tsf) (%) CLAY LOAM-brown & gray-stiff to TOPSOIL-black 33 very stiff (continued) 648.44 3 4 SILTY CLAY-black-stiff (Fill) 3 1.20 5 2.00 28 14 5 6 В Ρ 646.44 CLAY LOAM-brown & gray-stiff 3 3 (Fill) 3 1.20 4 1.30 18 18 4 В 6 624.44 -25 643.94 End Of Boring @ -25.0'. Boring SILTY CLAY-dark brown & backfilled with cuttings. gray-medium stiff 2 2 0.50 35 3 Р 641.44 CLAY LOAM-brown & gray-stiff to very stiff 2 3 2.60 В becoming gray @ -10.5' 3 5 2.10 19 В 3 3.75 21 7 Ρ 5 1.75 22 5 Ρ 3 3 1.50 13

5



SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/9/22

ROUTE	Chicago Stro Route	eet to US 30	DESCR	IPTIOI	N		I-80 Phase II		LC	ogg	ED BY)J
SECTION _		18		LOCA	TION	SE 1/4	, SEC. 18, TWP. T35N,	RNG. R11E	3 rd PM	,			
COUNTY _	Will	DRIL	LING ME	THOD		Hol	ing 1765685.279, East low Stem Auger	_ HAMMER	TYPE .	(CME A	utoma	tic
STRUCT. No	O	-	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	1	U C S	M O I
BORING NO Station	90 NW	/B-058 02+99 2 ft Left		W S	Qu	S	Groundwater Elev.: First Encounter	649.452		T H		Qu	S
Offset Ground Su	90.2 _ irface Elev.	2 ft Left 649.45	_ ft _ (ft)	(/6")	(tsf)	(%)	Upon Completion _ After Hrs.		_ ft _ ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL-b	lack	64	48.45			65	CLAY LOAM with		628.95	_			
CLAY LOAN	Л-brown-very		_	3	0.40	40	Gravel-gray-very dens	se			50/2"		40
				9	3.10 B	18							18
									626.45				
			_	4			CLAY LOAM-gray-ver	y stiff		_	3		
				7 10	3.10 B	17			004.45	_	5 6	2.00 P	18
			5	10	В		End Of Boring @ -25.	0'. Boring	624.45	-25		Г	
				3			backfilled with cuttings	s.		_]		
			_	7	2.70	19				_	1		
				10	В						1		
becoming g	rav @ -8.0										1		
	, @			4	0.70	10					1		
			-10	7	2.70 B	19				-30	1		
				3							1		
			_	4	2.50	22							
			_	6	Р					_	1		
										_	1		
				4	2.50	22					1		
			-15	6	P					-35	1		
			_							_	-		
				5						_			
				6 10	3.00 P	18					-		
			_		-								
				3						_			
				5	2.00	12					1		
			-	6	D						1		



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/8/22

ROUTE _	Chicago Stro Route	eet to US 30	DE	SCR	IPTIO	N		I-80 Phase II		L(OGG	ED B\	<u> </u>)J
SECTION		18		I	_OCA	TION	SE 1/4	I, SEC. 18, TWP. T35N, ing 1765698.661, East	, RNG . R11E	3 rd PM	,			
COUNTY _	Will	DRIL	LING	ME	THOD			low Stem Auger			(CME A	Automa	tic
STRUCT. N Station	0	-	_	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	1	U C S	M O I
BORING NO Station	O. NW 90 97.2	/B-059 05+02 2 ft Left	_	H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	643.32	_ ft <u>▼</u> ft	H	W S	Qu	S T
Ground S	urface Elev.	650.32	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	-	ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL-b	olack	64	49.32	_			84	CLAY LOAM-brown 8 very stiff (continued)	gray-stiff to		_			
CLAY LOAI	M-brown & gr		10.02		3		-					3		
very stiff	·	•			3 5	3.40	17					5 8	2.75 P	21
				_	3	В					_	0	Р	
					2	1.50	22					5	2.00	23
				<u> </u>	-	P 1.30	22			625.32	 -25		P 2.00	23
								End Of Boring @ -25.			_			
					4			backfilled with cutting	S.					
			•	-	6	3.10	21				_			
				_	7	В					_			
becoming g	ırav @ -8 0													
becoming g	1 ay 60 0.0				4									
					6 8	2.20 B	19				_			
				-10		В					-30			
				_	3 6	2.25	21				_			
					8	P P	'							
											_			
				_	3						_			
					4	2.25	20							
				-15	6	Р					-35			
				_	-						_			
					3	0.55								
					4 5	2.00 P	22							
				_		<u>'</u>					_			
					_									
					4	2.00	22							
				_	7						_	1		



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/8/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765705.786, Easting 1073171.598 SECTION COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U STRUCT. NO. M М Surface Water Elev. _ Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. _____ S NWB-060 Groundwater Elev.: Station ____ S Н S Qu Qu Т Т 907+04 First Encounter 637.862 ft Offset 98 ft Left **Upon Completion** ft (ft) (/6") (ft) (/6") Ground Surface Elev. 649.86 (tsf) (%) After ___ Hrs. ft (tsf) (%) CLAYEY SAND & GRAVEL-dark 629.36 21 brown 648.86 SILTY CLAY LOAM-gray-very stiff 3 CLAY LOAM-brown & gray-very 4 5 2.00 2.50 18 14 5 5 Ρ Ρ 626.86 CLAY LOAM-gray-very stiff 4 4 6 6 3.50 3.40 17 18 7 В 9 В -25 624.86 End Of Boring @ -25.0'. Boring backfilled with cuttings. 4 5 3.50 16 6 В 3 4 3.25 5 Р becoming gray @ -10.5 4 4 2.75 19 Ρ 4 2.00 22 5 Ρ 2 2.00 22 5 3 4 2.50 22 6 Р



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/8/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765714.187, Easting 1073363.838 SECTION Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. __ Ε Ε С n/a **ft** L С 0 0 Stream Bed Elev. Station Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ NWB-061 S S Groundwater Elev.: Station 900 0. 100.4 ft Left S Н Qu Qu Т Т First Encounter _631.131__ ft**∑ Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 648.63 (tsf) (%) After ___ Hrs. (tsf) (%) CLAYEY TOPSOIL-dark brown & CLAY LOAM-brown & gray-stiff to 23 very stiff (continued) black 647.63 3 5 CLAY LOAM-brown & gray-stiff to very stiff 5 17 6 2.50 1.80 17 5 7 В В 3 4 5 4 2.50 2.00 20 18 4 В 6 Ρ -25 623.63 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 5 2.70 20 8 В 4 8 3.40 12 В becoming gray @ -10.5 4 2.50 22 8 В 3 1.50 5 Ρ -15 5 1.80 18 50/1" В 3 5 1.75 17 7 Р



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/8/22

ROUTE	Chicago Str Route	eet to US 30	DE	SCR	IPTIO	N		I-80 Phase II		L0	OGG	ED BY	′ <u> </u>)J
SECTION _		18		ı	OCA	TION	SE 1/4	I, SEC. 18, TWP. T35N ing 1765719.404, Eas	, RNG. R11E,	3 rd PM	,			
COUNTY _	Will	D	RILLING	ME	THOD			low Stem Auger			(CME A	utoma	tic
STRUCT. NO Station	D	-		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	L O	U C S	M O I
BORING NO Station Offset	91 99.2	11+00 2 ft Left		H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion After Hrs.	633.925	ft <u>▼</u>	H	S	Qu	S T
Ground Su TOPSOIL-bl	rface Elev.	643.93	3 ft	(π)	(/6")	(tsf)	(%)	After Hrs CLAY LOAM-brown-s		_ ft	(π)	(/6")	(tsf)	(%)
TOPSOIL-DI	ack		642.93	_			31	stiff (continued)	suii to very		_	-		
CLAY LOAM	1-dark brown	n & gray			3	4.50	0.1					3	0.00	4.0
spotted blac	K-Stiff (Fill)				4	1.50 P	31					5 8	2.20 B	18
				_	<u> </u>	<u>'</u>					_			
												1		
					3 16	1.00	18					6	2.10	18
				<u> </u>	6	P 1.00	10			618.93	-25		B	10
			638.43					End Of Boring @ -25.						
CLAY LOAM stiff	1-brown-stiff	to very			2			backfilled with cutting	S.			_		
Sun				_	3	1.00	20				_	-		
					4	Р								
					-							_		
				_	3						_	-		
					5	3.75	20					-		
			_	▼-10	7	Р					-30			
becoming gr	av @ 10.5			_							_	-		
becoming gr	ay @ -10.5				4							-		
					6	2.20	16]		
				_	7	В	-				_	-		
					1							-		
					3							_		
					3 6	1.80 B	16				_	_		
				-15	-	В					-35	-		
				_	-						_	-		
					3	0.50	17				_	_		
					5 7	2.50 B	17					-		
				_		† –					_			
]		
					6	2.20	18					-		
				_	a	2.20	'0				_	+		



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/7/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765727.676, Easting 1073774.496 SECTION Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. __ S S NWB-063 Groundwater Elev.: S Н Qu Qu Station _____ Т Т 913+07 First Encounter 631.692 ft Offset 101 ft Left **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-brown-very stiff to TOPSOIL-black 37 hard (continued) 641.69 3 4 SILTY CLAY-dark brown & 3 4 2.00 gray-stiff 1.80 30 19 4 5 В В 639.69 CLAY LOAM-brown-very stiff to 3 4 hard 3 5 2.10 2.00 14 17 3 В 7 Ρ 617.69 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 4 2.00 18 5 Р 3 5 5.70 12 В becoming gray @ -10.5 4 5 4.20 19 7 В 3 3.00 5 21 6 В 2 2.80 19 5 3 3 2.20 14 3



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/7/22

ROUTE	Chicago Stre Route	eet to US 30	_ DE	SCR	IPTIOI	N		I-80 Phase II		LC	ogg	ED BY	′ <u> </u>)J
SECTION _		18		_ ı	OCA	TION _	SE 1/4	l, SEC. 18, TWP. T35N, ing 1765731.808, East	RNG. R11E	, 3 rd PM ,	,			
COUNTY _	Will	DRI	LLING	ME	THOD		Hol	low Stem Auger				CME A	utoma	tic
STRUCT. No Station	0	-	_ _	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	B L O	n c s	M O I
BORING NO Station	98.9 98.9	B-064 5+07	_	H	W S	Qu	S T	Groundwater Elev.: First Encounter	630.296	_ ft <u>▼</u>	T H	W S	Qu	S T
Offset Ground Su	98.9 _ urface Elev.	641.30	_ _ ft	(ft)	(/6")	(tsf)	(%)	Upon Completion _ After Hrs	-	_ ft _ ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL-b	lack	(640.30	_			31	CLAY LOAM-brown & stiff to hard (continued			_			
SILTY CLA	Y-black-stiff				3	1.20	29				_	3 5	2.80	18
					5	В	20					7	B	10
					2	1.60	28					3 5	2.50	21
		6	35.80	5	2	В		End Of Boring @ -25.		616.30	-25	5	В	
CLAY LOAN stiff to hard	M-brown & gra	ay-very			1			backfilled with cuttings	3.					
					2	2.60 B	24							
					3	6.40	22							
				-10	8	6.40 B	22				-30			
			<u> </u>	v _										
				_	3 6	5.30	22	-			_			
				_	7	В					_			
becoming g	ray @ -13.0				3									
				-15	4 7	3.70 B	20							
				-13							-35 —			
					2									
					3 4	3.40 B	14							
					3	3.60	13							
				_	1	Ь	1				_	t		



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/7/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765737.367, Easting 1074161.745 SECTION Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ NWB-065 S Groundwater Elev.: S Н Qu Qu Station _____ Т Т 916+95 First Encounter 626.469 ft Offset 98.6 ft Left **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 639.97 (tsf) (%) After - Hrs. (tsf) (%) CLAY LOAM-brown & gray-stiff to TOPSOIL-black 31 hard (continued) 2 3 CLAY LOAM with 3 Stone-brown-very stiff (Fill) 2 2.90 17 1.10 20 6 4 В 636.97 ORGANIC SILTY CLAY-black-medium stiff 3 4 3 0.70 1.10 20 37 7 В 4 В 614.97 634.47 End Of Boring @ -25.0'. Boring backfilled with cuttings. CLAY LOAM-brown & gray-stiff to hard 2 2 1.90 23 4 В 3 4 4.00 6 В 3 6 3.90 22 В becoming gray @ -13.0 4 3.60 6 8 В 6 3.50 18 9 3 4 4.40 18 6

1/3/23

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/24/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765562.819, Easting 1074689.564 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. _ Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. NWB-066 S S Groundwater Elev.: Station 922 105.9 ft Right S Н S Qu Qu Т Т First Encounter <u>Dry</u> ft **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. 647.29 (tsf) (%) After - Hrs. (tsf) (%) CLAY LOAM-brown-very stiff to CLAYEY TOPSOIL dark brown & 27 black hard (continued) 646.29 3 6 SILTY SAND & GRAVEL-brown-medium dense 4 9 2.70 16 (Fill) 6 13 В 644.29 CLAY LOAM-brown-very stiff to 3 5 hard 4 8 4.00 3.50 17 13 5 Ρ 13 -25 622.29 End Of Boring @ -25.0'. Boring backfilled with cuttings. 6 9 4.50 19 9 Р 6 4.00 Р becoming gray @ -10.5 4 5 2.00 21 Ρ 4 2.00 6 23 6 Ρ 2 2.50 24 4 Ρ 3 3 2.20 22 5

1/3/23



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/24/22

ROUTE	Chicago Street to US Route 30	DE	SCR	IPTIO	N		I-80 Phase II		L0	ogg	ED BY	<u> </u>	С
SECTION _	17		I	LOCA	TION	SW 1/	4, SEC. 17, TWP. T35N, ing 1765584.393, East i	RNG. R11E	., 3 rd PN	1,			
COUNTY	Will D	RILLING	ME	THOD		Hol	low Stem Auger	HAMMER	TYPE		CME A	utoma	tic
STRUCT. NO. Station	. <u>-</u>		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	1	U C S	M O I
Station	NWB-067 924+00		H	W S	Qu	S T	Groundwater Elev.: First Encounter	Dry	_ ft	T H	1	Qu	S T
Offset	105.5 ft Right face Elev. 651.08		(ft)	(/6")	(tsf)	(%)	Upon Completion _ After Hrs	Dry -	_ ft _ ft	(ft)	(/6")	(tsf)	(%)
3.0" TOPSOII		∫ 650.83	-			11	CLAY LOAM-gray-stiff			_			
SANDY CLAY brown-stiff (Fi	Y LOAM-dark ill)			3		41	(continued)				4		
,	,			3	1.00	21					5	1.00	16
		648.08		3	Р						6	Р	
SILTY CLAY gray-stiff (Fill)	LOAM-dark brown &		_	3						_	4		
				1 2	1.00 P	32					5 6	2.00 P	17
		645.58	5		P		End Of Boring @ -25.0)'. Boring	626.08	-25	0	Р	
SILTY SAND GRAVEL-brown loose	& wn-very loose to			1 2		22	backfilled with cuttings				-		
			_	1						_	_		
				2						_			
		040.50	-10	2		25				-30	_		
CLAY LOAM-	gray-stiff to very stiff	640.58		3							-		
				4 5	1.50 P	20					-		
			_		<u> </u>		-			_	1		
			_	4									
			-15	6 8	2.50 P	19				-35			
			_							_	1		
				7	0.50	0.1				_			
				9	2.50 P	21					-		
				_									
				5 5 6	3.50	19					-		



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/24/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765621.413, Easting 1075085.689 COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. M Surface Water Elev. Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. NWB-068 S Groundwater Elev.: S Н S Qu Qu Т Т First Encounter <u>Dry</u> ft **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") Ground Surface Elev. 651.60 __ ft (tsf) (%) After ___ Hrs. (tsf) (%) 5.0" TOPSOIL-black 651.18 631.10 34 CLAY LOAM-brown-very stiff SILT-gray-loose 4 3 4 3 2.50 24 19 4 3 Ρ 648.60 628.60 SILTY SAND & CLAY LOAM-gray-stiff GRAVEL-brown-very loose to 2 3 3 23 4 1.00 17 2 4 Ρ 626.60 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 2 1 25 1 0 0 24 1 641.10 CLAY LOAM-gray-very stiff 4 5 3.50 20 8 Ρ 638.60 **CLAYEY SAND &** 5 GRAVEL-gray-medium dense 11 11 636.10 CLAY LOAM-gray-very stiff 4 6 3.50 16 9 Ρ 5 3.00 20 12 Р



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/24/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765670.783, Easting 1075287.966 SECTION COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M M STRUCT. NO. Surface Water Elev. Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. ___ NWB-069 S Groundwater Elev.: S Н S Qu Qu Т Т First Encounter <u>Dry</u> ft **Upon Completion** <u>Dry</u> ft (ft) (/6") (ft) (/6") **Ground Surface Elev.** 651.29 ft (tsf) (%) After - Hrs. (tsf) (%) 630.79 6.0" TOPSOIL-black 650.79 59 SILTY CLAY LOAM-dark brown, CLAY LOAM-gray-very stiff 3 6 gray & black-stiff 3 8 2.50 1.20 30 19 4 12 В Ρ 648.29 CLAY LOAM-brown & gray-stiff 4 4 4 5 2.00 13 1.50 18 5 Ρ 6 -25 626.29 645.79 End Of Boring @ -25.0'. Boring SILTY GRAVEL-brown-dense backfilled with cuttings. 3 5 7 29 643.29 SILTY CLAY LOAM-gray-stiff 3 3 1.00 20 4 Р 640.79 CLAY LOAM-gray-stiff 2 5 1.00 21 5 Р 4 2.00 23 6 Ρ 3 1.80 22 7 В 633.29 SILT-gray-very loose 1 1 19 1

1/3/23



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765727.109, Easting 1075485.234 SECTION COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U STRUCT. NO. M M Surface Water Elev. Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. ___ NWB-070 S S Groundwater Elev.: S Н Qu Qu Т Т First Encounter 635.032 ft V **Upon Completion** _635.532__**ft**∑ (ft) (/6") (ft) (/6") Ground Surface Elev. 653.53 ft (tsf) (%) After - Hrs. (tsf) (%) CLAY LOAM-brown-very stiff 6.0" TOPSOIL-black 653.03 34 (continued) GRAVEL & STONE-brown & black-loose (Fill) 4 3 3 5 24 2.50 19 4 7 Ρ 650.53 CLAY LOAM-brown-very stiff 4 3 5 5 2.00 2.50 18 30 6 Ρ 6 628.53 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 3 3 2.50 5 Р 5 6 2.10 7 В becoming gray @ -8.0' 3 3 2.00 15 Ρ 3 2.00 6 Ρ -15 5 2.00 19 7 Ρ 3 4 2.00 17 5



Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, Northing 1765780.838, Easting 1075683.535 SECTION COUNTY Will **DRILLING METHOD** Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U STRUCT. NO. M M Surface Water Elev. Ε Ε С n/a ft L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. __ NWB-071 S Groundwater Elev.:
 Station
 932 100

 Offset
 123.2 ft Right

 655.5
 655.5
 S Н S Qu Qu Т Т First Encounter 634.523 ft **Upon Completion** (ft) (/6") (ft) (/6") Ground Surface Elev. 655.52 ft (tsf) (%) After -Hrs. (tsf) (%) 6.0" TOPSOIL-black 655.02 CLAY LOAM-brown & gray-stiff to 32 very stiff (continued) CLAY LOAM-dark brown & gray 634.52 spotted-very stiff (Fill) 3 4 SILTY SAND & 3 GRAVEL-gray-medium dense 6 2.00 29 12 4 13 Ρ 652.52 632.52 CLAY LOAM-brown & gray-stiff to CLAY LOAM-gray-very stiff very stiff 2 6 2 1.50 19 6 2.00 17 3 Ρ 5 Ρ 630.52 -25 End Of Boring @ -25.0'. Boring backfilled with cuttings. 4 4 3.50 18 9 Р 4 5 3.50 7 Р becoming gray @ -10.5' 5 9 2.50 19 14 Ρ 4 3.50 5 10 Ρ 3 2.00 21 8 Ρ 3 3.00 6 18 7

1/3/23

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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY ROUTE DESCRIPTION **LOCATION** SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1765838.698, Easting 1075883.259 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. _____ М Surface Water Elev. _ Ε Ε С n/a **ft** L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W BORING NO. NWB-072 S S Groundwater Elev.: S Н
 Station
 934±00

 Offset
 145.4 ft Right

 650.6
 650.6
 Qu Qu Т Т First Encounter _651.112__ ft**∑ Upon Completion** (ft) (/6") (ft) (/6") **Ground Surface Elev.** 659.61 __ ft (tsf) (%) After ___ Hrs. (tsf) (%) CLAY LOAM-brown-very stiff to 6.0" TOPSOIL-black 659.11 35 hard (continued) SILTY CLAY-dark brown-stiff 3 8 4 9 3.50 1.50 28 15 5 10 Ρ Ρ 7 9 10 11 24 3.00 1.50 17 8 Ρ 14 634.61 -25 654.11 End Of Boring @ -25.0'. Boring backfilled with cuttings. CLAY LOAM-brown-very stiff to hard 4 3.00 16 7 Р 4 5 4.00 7 Р 5 7 2.00 19 13 В becoming gray @ -13.0' 5 2.00 6 9 Ρ 8 2.50 18 8 Ρ 6 2.00 22 6 Р



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 2/28/22

ROUTE _	Chicago Street to US Route 30	S DE	DESCRIPTION I-80 Phase II							LOGGED BY TO			
SECTION	17		I	LOCA	TION	SW 1/	4, SEC. 17, TWP. T35N, ling 1765995.4, Easting	RNG. R11E	., 3 rd PN	1,			
COUNTY	Will C	ORILLING	ME	THOD						CME Automatic			itic
STRUCT. N Station	0		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	_ ft _ ft	D E P	B L O	U C S	M O I
BORING No Station _	936+00 70.2 ft Right		H	W S	Qu	S T	Groundwater Elev.: First Encounter	Dry	_ ft	H	W S	Qu	S T
Ground S	urface Elev. 649.4	0 ft	(ft)	(/6")	(tsf)	(%)		-	ft	(ft)	(/6")	(tsf)	(%)
8.0" TOPS		648.73				25	CLAY LOAM-brown-ve	ery stiff		_			
CLAY LOA	M-brown-very stiff			3							3		
				3 5	2.50 P	24					4	3.00 P	14
							-					<u> </u>	
			_	5						_	3		
				6	2.50	21					5	2.50	15
			5	7	Р		End Of Boring @ -25.0	l' Boring	624.40	-25	6	Р	
							backfilled with cuttings						
			_	6	2.50	17				_			
				8	P	<u> </u>							
				-							1		
				5									
			-10	6 9	3.00 P	18				-30	1		
			-10							-30			
				5							1		
			_	7	2.20	16							
			_	10	В					_	1		
becoming g	ıray @ -13.0'		_	1						_			
				5 5	2.00	18					1		
			-15	40	B					-35	1		
			_							_			
				4	L						1		
			_	4 9	2.00 P	17				_			
			_		1		-			_	1		
				_]		
				5 5	2.00	18	-				1		
			20	8	P					40	1		



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/9/22

Chicago Street to US ROUTE Route 30	DESCR	IPTION	1		I-80 Phase II		LOGGED BYTC
SECTION 17		LOCAT	ION _	SW 1/	4, SEC. 17, TWP. T35N, ing 1766029.1, Easting	RNG. R11E, 3 rd	PM,
COUNTY Will DRIL					Hand Auger		E Manual
STRUCT. NO	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft	
BORING NO. NWB-074 Station 938+00 Offset 142 ft Right	H		Qu	S T	Upon Completion _	Dry ft Dry ft	
Ground Surface Elev. 662.00	ft (ft)	(/6")	(tsf)	(%)	After Hrs	ft	
SILTY CLAY-dark brown & black-very stiff		HA	2.00 P	28			
, , , , , , , , , , , , , , , , , , , ,	0.00	НА					
CLAY LOAM-brown & gray-very stiff	_	ПА	3.00	20			
	_		Р				
	_	НА	0.50	10			
	5	-	3.50 P	18			
65	6.00		'				
Auger Refusal @ -6.0'. End Of Boring. Boring backfilled with cuttings.							



1/3/23

BORING 20012_LOG.GPJ IL_DOT.GDT

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

Chicago Street to US Route 30 I-80 Phase II LOGGED BY TC ROUTE DESCRIPTION LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, SECTION Northing 1766093.455, Easting 1076217.16 Will **DRILLING METHOD** COUNTY Hollow Stem Auger HAMMER TYPE **CME** Automatic U D В В U M STRUCT. NO. М Surface Water Elev. Ε n/a ft Ε С L С 0 0 Station Stream Bed Elev. Ρ S Ρ S 0 0 ı Т Т W Т W S BORING NO. __ S NWB-074A Groundwater Elev.: S Н S Qu Qu Station _____ Т Т 938+02 First Encounter <u>Dry</u> ft Offset 70.2 ft Right **Upon Completion** Dry ft (ft) (/6") (ft) (/6") Ground Surface Elev. _ 647.07 (tsf) (%) After -Hrs. (tsf) (%) 13.0" CONCRETE SILTY CLAY-dark gray to gray-medium stiff to stiff (continued) 2 CRUSHED STONE-dense 25 1 0.50 36 4 2 Ρ 644.07 CLAY LOAM-brown-very stiff (Fill) SILTY CLAY LOAM-gray-very stiff 6 5 6 5 3.10 2.00 24 15 6 В 6 -25 622.07 End Of Boring @ -25.0'. Boring backfilled with cuttings. becoming gray @ -5.5' 4 2.75 18 7 Ρ 3 3 2.00 Р 636.57 CRUSHED STONE-brown & gray-very dense 14 26 50/2' 17 50/5 631.57 SILTY CLAY-dark gray to gray-medium stiff to stiff 3 4 1.50 26 5 Ρ 3 2 1.00 38 2 Ρ



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/9/22

ROUTE _	Chicago Stree Route 3	t to US 0	DE	DESCRIPTION I-80 Phase II						_ LO	GGED BY	TC
SECTION		17		İ		SW 1/4	4, SEC . 17, TWP . T35N ing 1766138.4, Easti n	I, RNG . R11E, g 1076251.9	3 rd PM	,		
COUNTY	Will	DRI	LLING	ME	THOD		Hand Auger		_ HAMMER T	YPE _	ıl	
STRUCT. N Station	IO	<u>-</u>	_ _	D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a			
Station _ Offset _	O. NWB 940 70.2 ft surface Elev.	+00 Right	_ _ _ _ ft	T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	654.2	ft		
	OIL-black		_		HA	()	(1.3)		<u>-</u> _	•		
	.M-brown & gray		559.45		HA	1.00 P	20 /					
				_	TIA	2.00 P	28					
	Y-brown & gray		555.70	<u> </u>	НА							
SILTY CLA	r - biowii & gray		354.20 √		- 100	1.00 P	21					
CLAY LOA	M-brown-stiff				HA	1.50 P 1.50 P	24					
End Of Bot backfilled v	ring @ -10.0'. B vith cuttings.		650.20	-10 								



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

ROUTE	icago Street to US Route 30	S DE:	PESCRIPTION I-80 Phase II				I-80 Phase II	L	OGGED BY _	TC
SECTION	17		_	LOCATION _		SW 1/	4, SEC. 17, TWP. T35N ing 1766196.618, Eas	N, RNG. R11E, 3 rd PN ting 1076386.226	Л,	
COUNTY	Will I	DRILLING	ME	THOD			low Stem Auger		CME Auto	matic
STRUCT. NO. Station	<u>-</u> -		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a ft n/a ft		
Station Offset	NWB-075A 939+96 70.2 ft Right ce Elev. 644.2		H (ft)		Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	ft		
14.0" CONCRE	TE		_							
CRUSHED ASI STONE-dense	PHALT &	643.10		32 27 27		5				
CLAY LOAM-bi		640.77 640.27		9	4.50	11				
Borehole conting.	nued with rock				<u>(P</u>					

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

ROUTE _	Chicago Ro	hicago Street to US Route 30		ESCRIPTIO	N	 - -	80 Phas	e II			_ LO	GGED	BY	TC
SECTION		17		LOCA	TION SW	/ 1/4, SEC. 1 orthing 1766	7, TWP .	T35N, RN	G . R1	1E, 3	B rd PM,			
COUNTY	Wi	<u> </u>	CORING	METHOD		•		, casung		300.2	R E	R	CORE	S T
STRUCT. Station	NO	-		CORING B		/PE & SIZE _	Swive	Double el-10 ft	D	C	C O V	Q	T I M	R E N
Station	NO	939+96		Top of Ro	ock Elev. ore Elev.				P T H	R E	E R Y	D	E	G T H
Ground	Surface Ele	v. 644.:	27 ft						(ft)	(#)	(%)		(min/ft)	
SILURIÀN Light gray staining to	Poring @ -14.0	NIAGARA orous with ly fractured	horizonta	al to wavy b out.	edding. W	eathered wit	h rust	630.27	5	1	100	4		320.00
End of Bo		O. Boring	packillec	a With Guithi	gs.				-15 					

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

	014100
Date	3/1/22

	Chicago Street to US					
ROUTE	Route 30	DESCRIPTION	I-8	0 Phase II	LOGGED BY	TC
SECTION _	17			, TWP. T35N, RN 96.618, Easting	IG. R11E, 3 rd PM , 1076386,226	
COUNTY _	Will C	ORING METHOD Rota	ry Wash	, J		
				NX Double		
STRUCT. N	O	CORING BARREL	TYPE & SIZE _	Swivel-10 ft	_	
Station	-			_		
		Core Diameter	2	in		
BORING NO). NWB-075A	Top of Rock Ele	v. <u>640.27</u>	ft		
Station	939+96	Begin Core Elev	<u>. 640.27</u>	ft		
Offset	70.2 ft Right					
Ground St	urface Elev. 644.27	ft				





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Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/14/22

ROUTE	Route 30	DE	SCR	IPTIO	N	I-80 Phase II				GGED BY _	TC
SECTION	17			LOCA	TION _	SW 1/	4, SEC. 17, TWP. T35N ing 1766256.3, Eastin	I, RNG. R11E,	3 rd PM ,		
COUNTY	Will D	RILLING	ME	THOD			Hand Auger	-	TYPE _	CME Auto	matic
STRUCT. NO	-		D E P	B L O	U C S	M 0 1	Surface Water Elev Stream Bed Elev	n/a n/a	ft ft		
Station Offset	NWB-076 942+00 141.1 ft Right ce Elev. 655.70		T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Dry	ft		
12.0" TOPSOIL		<u>/</u>	(,	HA	(10.1)	(70)	Aitei iiis	<u> </u>			
12.0 TOT GOIL	-black	654.70	_			38					
CLAY LOAM-br spotted black-ve	own & gray ery stiff (Fill)	653.70	_	НА	3.00	16					
SILTY SAND & (Fill)	GRAVEL-brown		_	НА	P	9					
		651.70		1							
CLAY LOAM-br	own spotted		_	HA							
black-stiff (Fill)		649.70	<u>-5</u>		1.00 P	6					
CLAY LOAM-br	own-hard	049.70		НА							
01, tr 20, till 2.	omi nara				4.50 P	20					
			_	НА	4.50	17					
		0.45 =0	_		Р						
Auger Refusal (Boring.	@ -10.0'. End Of	645.70	-10								
J			_								
			_								
			-15								
			_								
			-20								



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/1/22

ROUTE Route 30	DE	DESCRIPTION				I-80 Phase II	LO	LOGGED BYTC		
SECTION 17		_ ι	OCAT	ION _	SW 1/4	4, SEC. 17, TWP . T35N ing 1766309.787, Eas t	I, RNG. R11E, 3 rd PM ,	ı		
COUNTY Will	DRILLING	ME	THOD			low Stem Auger		CME Auto	omatic	
STRUCT. NO		D E P T	B L O W	U C S	M O I S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	n/a ft n/a ft			
Station 941+95 Offset 71.3 ft Right Ground Surface Elev. 640.5		H (ft)	S (/6")	Qu (tsf)	(%)	First Encounter Upon Completion After Hrs.	Dry ft Dry ft			
14.0" CONCRETE	<u> </u>	(,	,,,	(101)	(70)	Aitei nis				
	639.40		00							
CRUSHED ASPHALT &			36 23		5					
STONE-dense			23						ĺ	
EDA OTUBED DOOK!	637.57		-							
FRACTURED ROCK-brown-very dense	636.57		21							
Drillers Observation: Apparent Bedrock			35 \50/2"	,	5				ĺ	
Borehole continued with rock coring.	635.57	-10 -110 -15 -15								

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date ___3/1/22

ROUTE _	Route 30	DESCRIPTION	I-8	0 Phase II		LO	GGED	BY	TC
SECTION	17	LOCATION	SW 1/4, SEC. 17	, TWP. T35N, RN	IG . R11E	, 3 rd PM	,		
COUNTY _	Will COF	RING METHOD Rot	Northing 17663 ary Wash		10/6553	R E	R	CORE	S T
	O	CORING BARRE	2 ev. 636.57	NX Double Swivel-10 ft in ft	D C E O P R	V E	Q D	T I M E	R E N G
Station _ Offset	941+95 71.3 ft Right	Begin Core Ele		ft	T E	Y			H
Ground St	urface Elev. 640.57	_ ft			(ft) (#) (%)	(%)	(min/ft)	(tsf)
Light gray to	D' to -15.0') SYSTEM, NIAGARAN SE o gray & porous with hori: aining to -9.6'.		g. Highly weathere	635.5	7 _ 1 _ 1	84	33		543.00
				005 5	7 15				
End Of Bori	ing @ -15.0'. Boring back	rfilled with cuttings.		625.5	7 -15				

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

D . 1 .	0/4/00
Date	3/1/22

	Chicago Street to US					
ROUTE	Route 30	DESCRIPTION	I-8	D Phase II	LOGGED BY	TC
SECTION _	17			, TWP. T35N, RN 09.787, Easting	IG. R11E, 3 rd PM, 1076553.735	
COUNTY _	Will COF		ry Wash			
				NX Double		
STRUCT. N	O	CORING BARREL	TYPE & SIZE _	Swivel-10 ft	_	
Station	-	_				
_		Core Diameter	2	in		
BORING NO). NWB-076A	Top of Rock Ele	v. <u>636.57</u>	ft		
Station	941+95	Begin Core Elev	. <u>635.57</u>	ft		
Offset	71.3 ft Right	_				
Ground St	urface Elev. 640.57	ft				





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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/14/22

ROUTE	Route	30	_ DES	DESCRIPTION			I-80 Phase II			LOGGED BY TC		
SECTION		17			LOCAT	TION _	SW 1/4	4, SEC. 17, TWP. T35N ing 1766383.2, Eastin g	, RNG. R11E,	3 rd PM ,		
COUNTY	Will	DF	RILLING	ME	THOD			Hand Auger		YPE _	CME Auto	matic
STRUCT. NO. Station		-		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a n/a	ft ft		
BORING NO. Station Offset Ground Surfa	94 141.1	4+00 ft Right		T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.		ft ft ft		
8.0" TOPSOIL			651.23		НА							
CLAY LOAM-b stiff	rown-stiff	to very			HA	1.75 P 2.50	19					
					HA							
				-5 -5		2.50 P	22					
					НА	1.75 P	14					
Auger Refusal Boring.	@ -8.5'. E	End Of	643.40	-10 -10 -15 -15 								



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/2/22

ROUTE Route 30		SCR	IPTIO	ا		I-80 Phase II	LOGGED BY TC		
SECTION17		ı	LOCA	TION _	SW 1/	4, SEC. 17, TWP. T35N ing 1766431.141, Eas	N, RNG . R11E, 3 rd	PM ,	
COUNTY Will	_ DRILLING	ME	THOD			low Stem Auger			omatic
STRUCT. NO		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a n/a ft		
BORING NO. NWB-07 Station 943+90 Offset 70 ft Rig Ground Surface Elev. 6) Jht	H (ft)	W S (/6")	Qu (tsf)	S T (%)	Upon Completion	Dryft ft ft		
14.0" CONCRETE	<u> </u>		, ,	, ,		71101	<u></u>		
	635.08		28						
CRUSHED ASPHALT & STONE-dense			28 15		8				
	632.75								
Drillers Observation: Apparei Bedrock			50/0"		NR				
Borehole continued with rock coring.									

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/2/22

ROUTE	Chicago Stre Route									LOGGED BYTO			
SECTION		17	LOCATION	SW 1	1/4, SEC. 17	7, TWP.	T35N, RN	G . R1	1E, 3	B rd PM,			
				Nort	hing 17664	131.141	Easting	1076	710.8	79		CORE	-
COUNTY _	Will	COR	ING METHOD R	otary W	ash					R E	R	CORE	S T
STRUCT NO	1	_	CORING BARR	FI TVD	F & SI7F		ouble el-10 ft			С		Т	R
STRUCT. NO Station	·	-	_ COMING BAIM				51-10 11	D E	С	0 V	Q	I	E
			Core Diamete		2 632.75			P	O R	E	D D	M	N G
BORING NO.	NWE	3-077A	Top of Rock Begin Core E		632.25			T	E	R		_	Ť
Station Offset	70 f	t Riaht						Н		Y			Н
		636.25	_ _ ft					(ft)	(#)	(%)	(%)	(min/ft)	(tsf)
RUN 1 (-4.0'	to -14.0')						632.25		1	100	94		418.00
			RIES DOLOMITE	9 must s	tainina with	four		-5					
Light gray & horizontal fra	ctures.	norizontai be	edding. Some vugs	& rust s	taining with	iew		_					
								-					
								-10					
								-10					
								_					
							622.25	_					
		Boring back	filled with cuttings.										
End of Boring	9							-15					
								_					
								_					
								-20					
								\dashv					
								-					
								_ =					

Color pictures of the cores	Yes		
Cores will be stored for exan	nination until	5 yrs after o	const

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/2/22

	Chicago Street to US				
ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY _	TC
SECTION	17	LOCATION	SW 1/4, SEC. 17, TWP. T35N, RNG. R1	11E, 3 ^{ra} PM ,	
			Northing 1766431.141, Easting 1076	710.8 <u>79</u>	
COUNTY	Will COR	RING METHOD Rota	ary Wash		
_					
			NX Double		
STRUCT. N	O	CORING BARREI	L TYPE & SIZE Swivel-10 ft		
Station	-				
_		Core Diameter	2 in		
BORING NO	o . NWB-077A	Top of Rock Ele	ev. <u>632.75</u> ft		
Station	943+90	Begin Core Ele	v. <u>632.25</u> ft		
Offset	70 ft Right	_			
	urface Elev. 636.25	_ _ ft			





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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from Chicago Street to US

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/14/22

ROUTE _	Route	e 30	DE	DESCRIPTION			I-80 Phase II			LOGGED BY TC		
SECTION		17		_ ı	LOCA	TION _	SE 1/4	l, SEC. 17, TWP . T35N ing 1766518.382, Eas	I, RNG. R11E, 3 rd I	PM,		
COUNTY	Will	[RILLING	ME	THOD			Hand Auger			omatic	
STRUCT. Station	NO	-	<u>—</u>	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a ft n/a ft			
Station Offset	NO. NV 94 139	46+00 ft Right		H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	ft			
	Surface Elev.		<u> </u>	(ft)	(/6")	(tsf)	(%)	After Hrs.	ft			
	OIL-black		655.70	_	НА		31					
CLAY LOA	AM-brown-stiff	f to hard			HA	0.00	10					
				_	-	2.00 P	19					
					НА	P						
				_	ПА	2.50	19					
				_		P						
					НА							
				-5		4.50	20					
				_		Р						
				_	HA							
						1.50 P	13					
					НА							
				_	IIA	3.00	14					
					1	P	' '					
			646.20	-10								
Auger Ref Boring.	usal @ -10.0'.	. End Of		_								
					1							
				_								
					1							
				_	-							
					1							
				-15	1							
				_								
					-							
				_								
					1							
				-20	1							



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Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838 FAI Route 80 from

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/3/22

ROUTE	hicago Street to US Route 30	DE	DESCRIPTION				I-80 Phase II	LOGGED BY _	TC	
SECTION	17		LOCATION _			SE 1/4	, SEC. 17, TWP. T35N ing 1766522.793, Eas	, RNG. R11E, 3 rd P	PM,	
COUNTY	Will D	RILLING	МЕ	THOD		Hol	low Stem Auger	_ HAMMER TYPE	CME Auto	matic
STRUCT. NO. Station	<u>-</u>		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	n/a ft n/a ft		
Station Offset	NWB-078A 945+30 69.3 ft Right ace Elev. 633.98		H (ff)	W S (/6")	Qu (tsf)	S T (%)	Upon Completion			
16.0" CONCR		<u> </u>	(1.6)	(,,,	(131)	(70)	After Hrs	<u>-</u> _ II		
	TONE-loose to	632.65		16 25 16		4				
				6						
			<u>-</u> 5	4		5				
		627.48	_	10						
Borehole cont coring.	inued with rock			50/3"						

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date ___3/3/22

ROUTE _	Chicago Street to US Route 30	DESCRIPTION	I-80) Phase II		_ LO	GGED	вү	тс
SECTION	17	LOCATION	SE 1/4, SEC. 17, 3 Northing 176652	TWP. T35N, RNG	i. R11E, 3	rd PM ,			
COUNTY	Will COF	RING METHOD Rota		22.793, Eas ting	1070019.0	R		CORE	S
_				NX Double		E	R	т	T R
STRUCT. N	IO	_ CORING BARREI	L TYPE & SIZE _	Swivel-10 ft	D C	Ö	· Q	i	E
Station _	-	Core Diameter			E O	V	. (M	N
BORING N	O. <u>NWB-078A</u>	Top of Rock Ele			P R T E	E R	D	E	G T
Station _	945+30 69.3 ft Right	Begin Core Ele	 040.38	_ "	H	Y			Н
	urface Elev. 633.98	– ft			(ft) (#)	(%)	(%)	(min/ft)	(tsf)
SILURIÁN Light gray & throughout	ing @ -16.5'. Boring back	ERIES DOLOMITE pedding. Some vugs ho		617.48	-10 -10 -15	99	81		569.00
End of Bori	ng				-20 -20 				

Color pictures of the cores	Yes		_
Cores will be stored for exam	nination until	5 vrs after	const

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

_	
Date	3/3/22

	Chicago Street to US					
ROUTE	Route 30	DESCRIPTION	I-80 P	hase II	LOGGED BY	TC
SECTION _	17		SE 1/4, SEC. 17, TV Northing 1766522.			
COUNTY _	Will C	ORING METHOD Rotai	ry Wash			
STRUCT. N Station	O	CORING BARREL Core Diameter	TYPE & SIZE S	NX Double Swivel-10 ft in		
BORING NO Station _ Offset	NWB-078A 945+30 69.3 ft Right	Top of Rock Elev	010 -0	ft ft		
Ground St	urface Elev. 633.98	ß ft				





Geo Services, Inc.

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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/14/22

ROUTE	cago Street to US Route 30	DES	DESCRIPTION			I-80 Phase II			GGED BYTC
SECTION	17		_ ı	OCA	TION _	SE 1/4	, SEC. 17, TWP. T35N,	RNG. R11E, 3 rd PM,	
COUNTY	Will D	RILLING	ME	THOD			ing 1766587.1, Eastinç Hand Auger		CME Automatic
STRUCT. NO Station	-		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft	
Station Offset	NWB-079 947+00 138.7 ft Right e Elev. 657.00		T H	W S (/6")	Qu (tsf)	S T (%)	Upon Completion _	Dry_ ft	
TOPSOIL-black		1	(1.6)	HA	(131)	(70)	After Hrs		
		656.00		НА		30			
CLAY LOAM-da brown-very stiff		-	_	НА	2.75 P	11			
					3.00	16			
			_		_ P				
				НА					
		-	-5 —	-	3.25 P	20			
		•		НА	0.00	00			
			_	-	2.00 P	23			
Auger Refusal (Boring.	② -8.0'. End Of	649.00	-10 -10 -15 -15						



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SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/3/22

ROUTE	Chicago Street to US Route 30	S DES	DESCRIPTION I-80 Phase II				I-80 Phase II	LC	OGGED BY _	TC			
SECTION _	17		LO		LOCAT		LOCATION _		SE 1/4	, SEC. 17, TWP. T35N, ing 1766647.529, East	RNG. R11E, 3 rd PM,	,	
COUNTY _	Will	DRILLING	ME	THOD			low Stem Auger		CME Auto	matic			
STRUCT. NO Station). <u>-</u>		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	n/a ft n/a ft					
Station Offset	. NWB-079A 947+18 75.3 ft Right rface Elev. 633.3		T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	<u>Dry</u> ft <u>Dry</u> ft - ft					
15.0" CONC			_		. ,		74101 11101 _						
CRUSHED	STONE-dense	632.08 -		14 16 17		6							
		629.33	_	10									
Borehole collections.	ntinued with rock	-											

ROCK CORE LOG

Page $\underline{1}$ of $\underline{1}$

Date 3/3/22

ROUTE		treet to US te 30	DESCRIPTION	I-8	0 Phase II			LO	GGED	BY	TC
				SE 1/4, SEC. 17,				_			
				Northing 17666	47.529, Easting	10769	65.8	06	1	CORE	-
COUNTY	Will	COF	RING METHOD Rot	tary Wash		_		R E	R	CORE	S T
STRUCT.	NO.	_	CORING BARRE	L TYPE & SIZE	NX Double Swivel-10 ft			С		Ţ	R
Station		-	— Como Diomostom			- D E	C	0 V	Q	l M	E N
BORING N	ION\	NB-079A	Core Diameter Top of Rock E			P	R	Ε	D	E	G
Station	(947+18	Begin Core Ele		ft	T H	E	R Y			T H
Offset _	75	.3 ft Right	_ <u>_</u>				(#)	(%)	(%)	(min/ft)	(tsf)
		633.33	_ π		600.00		1	100		(11111/11)	
(-4.0' to -4.	.0' to -14.0') .65')				629.33	-5	1	100	59		598.00
Concrete	ŕ					-5					
(-4.65' to -	14.0') SYSTEM. N	NIAGARAN SI	ERIES DOLOMITE								
Light gray	& porous wi	th horizontal b	edding. Weathered w	ith rust staining be	elow -8.0'.						
Some horiz	zontal fractu	ires throughou	ıt.								
						-					
						-10					
						-					
					619.33	3					
End Of Bo	ring @ -14.0)'. Boring back	rfilled with cuttings.								
End of Bor	ring					-15					
						-					
						-					
						-20					
						4					
						\dashv					

Cores will be stored for examination until 5 yrs after const. The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Yes

Color pictures of the cores

ROCK CORE LOG

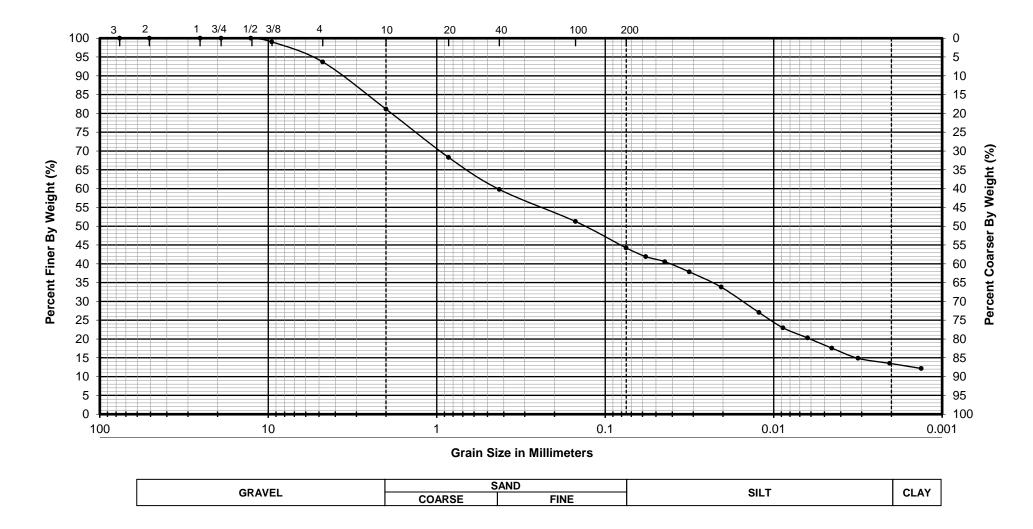
Page $\underline{1}$ of $\underline{1}$

_	
Date	3/3/22

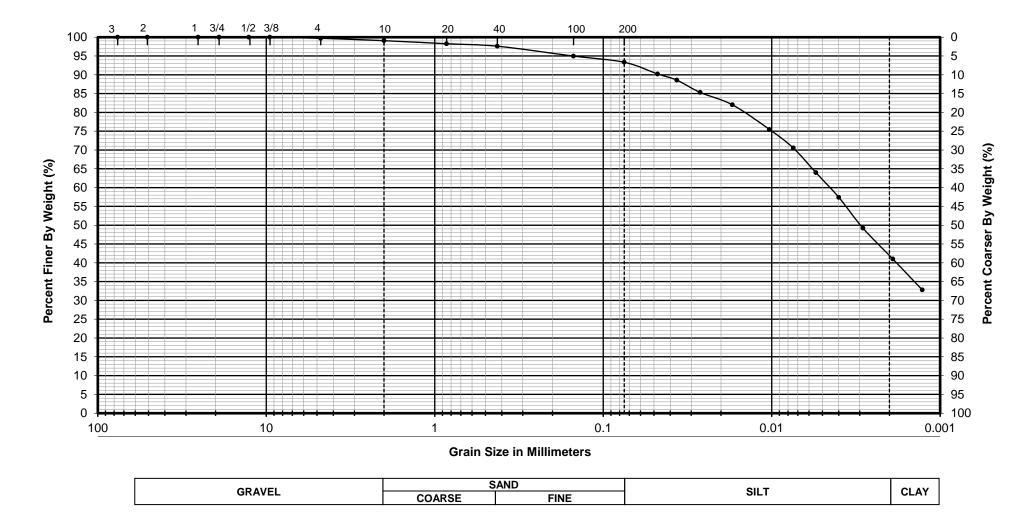
	Chicago Street to US				
ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY	TC
SECTION	17	LOCATION S	SE 1/4, SEC. 17, TWP. T35N, RNG. F	R11F. 3 rd PM .	
02011011	••		Northing 1766647.529, Easting 10		
COUNTY	Will COR		, ,	. 0000.0 <u>00</u>	
COUNTY _	VVIII COR	ING METHOD Rotal	ry Wash		
			NX Double		
STRUCT. N	O	CORING BARREL	TYPE & SIZE Swivel-10 ft		
Station	_	_			
_		Core Diameter	2 in		
BORING NO	D. NWB-079A	Top of Rock Elev	v. <u>628.68</u> ft		
Station	947+18	Begin Core Elev.			
_			<u> </u>		
Offset	75.3 ft Right	_			
Ground St	urface Elev. <u>633.33</u>	_ ft			



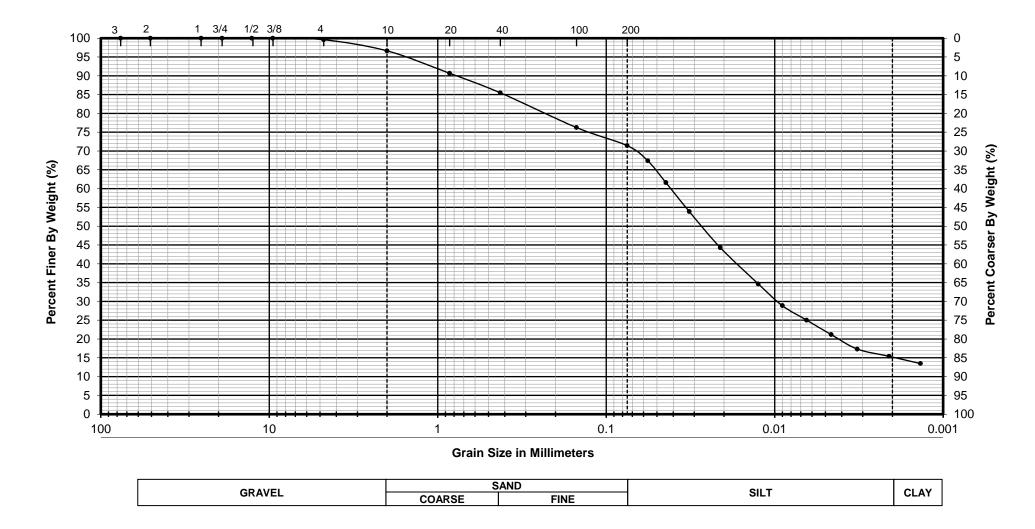
APPENDIX "O" k-oy Quo



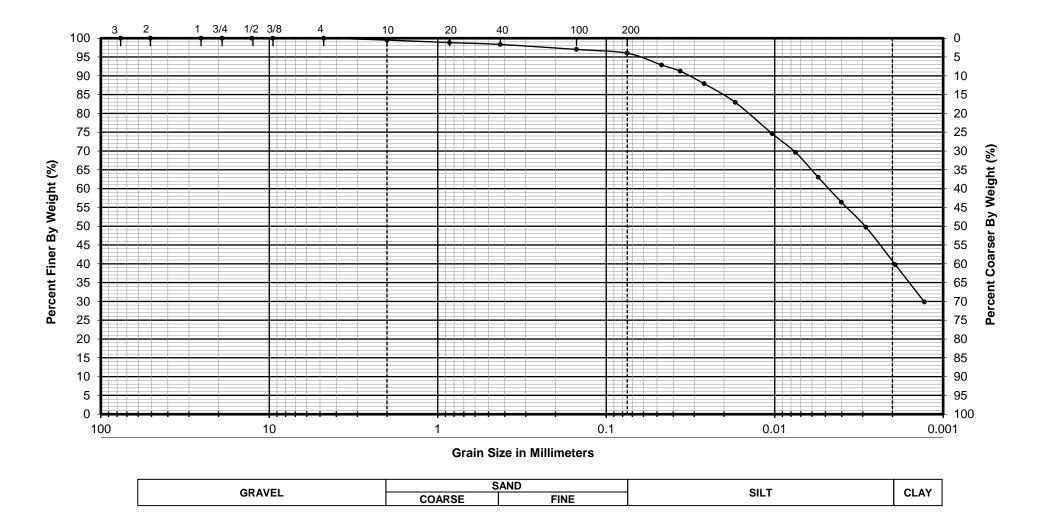
Boring No.	NWB-08	CLASSIFIC	ATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	5			
Depth	8.5'-10.0'	SANDY L	OAM	Proposed Retaining Wall No. 1
Liquid Limit	18	A-4		N of W.B I-80 and East of Gardner St
Plastic Limit	15	brown/g	ray	Will County, Illinois
Plasticity Index	3	Group Index	0	
Test By	MT	% Gravel	18.9	Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Date	4/21/22	% Sand	36.9	Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Reviewed By	RS	% Silt	30.7	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	13.5	Phone 847-253-3845 ● Fax 847-253-0482



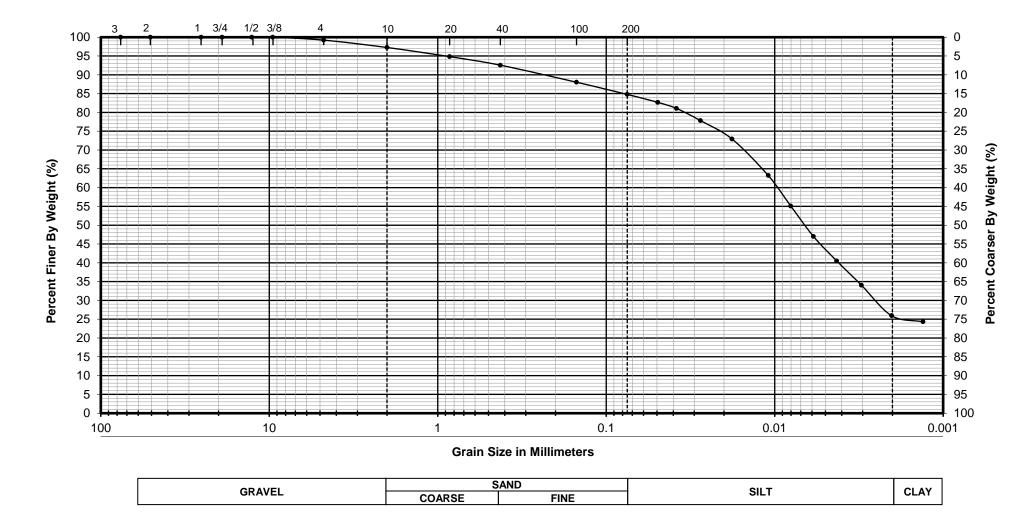
Boring No.	NWB-18A	CLASSIFIC	ATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CI	_AY	Proposed Retaining Wall No. 1
Liquid Limit	36	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	20	brown/g	ray	Will County, Illinois
Plasticity Index	16	Group Index	15	
Test By	МТ	% Gravel	0.9	Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Date	4/21/22	% Sand	5.7	Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Reviewed By	RS	% Silt	52.3	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	41.0	Phone 847-253-3845 ● Fax 847-253-0482



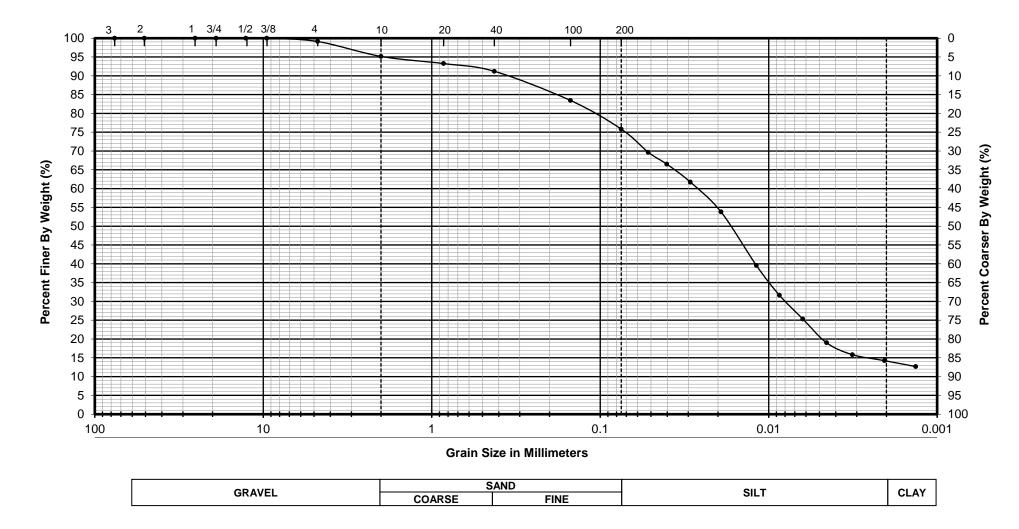
Boring No.	NWB-25A	CLASSIFICA	ATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1			
Depth	0-2.0	SILTY LO	AM	Proposed Retaining Wall No. 1
Liquid Limit	47	A-7		N of W.B I-80 and East of Gardner St
Plastic Limit	36	brown/bl	ack	Will County, Illinois
Plasticity Index	11	Group Index	9	
Test By	MT	% Gravel	3.4	Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Date	4/21/22	% Sand	25.2	Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Reviewed By	RS	% Silt	56.0	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	15.4	Phone 847-253-3845 ● Fax 847-253-0482



Boring No.	NWB-45	CLASSIFICA	ATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1			
Depth	1.0'-2.5'	SILTY CL	AY	Proposed Retaining Wall No. 1
Liquid Limit	30	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	17	gray		Will County, Illinois
Plasticity Index	13	Group Index	12	
Test By	MT	% Gravel	0.5	Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Date	4/21/22	% Sand	3.5	Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Reviewed By	RS	% Silt	56.2	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	39.8	Phone 847-253-3845 ● Fax 847-253-0482



Boring No.	NWB-65	CLASSIFIC	ATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY CLAY	LOAM	Proposed Retaining Wall No. 1
Liquid Limit	28	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	17	brown/g	ray	Will County, Illinois
Plasticity Index	11	Group Index	8	
Test By	MT	% Gravel	2.7	Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Date	4/21/22	% Sand	12.5	Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Reviewed By	RS	% Silt	58.8	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	25.9	Phone 847-253-3845 ● Fax 847-253-0482



Boring No.	NWB-75A	CLASSIFICA	ATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LO	AM	Proposed Retaining Wall No. 1
Liquid Limit	40	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	21	brown/gı	ay	Will County, Illinois
Plasticity Index	19	Group Index	14	
Test By	MT	% Gravel	4.8	Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Date	4/21/22	% Sand	19.3	Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm
Reviewed By	RS	% Silt	61.6	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	14.3	Phone 847-253-3845 ● Fax 847-253-0482



1235 East Davis Street, Suite 101 Arlington Heights, IL 60005 (847) 253-3845

Liquid Limit, Plastic Limit, and Plasticity Index of Soils AASHTO T89/T90

Project Name I-80 Phase II: Proposed Briggs St Bridge	Job No <u>20012</u>
Location Will County, Illinois	Date <u>5/6/22</u>
Client EXP	

Boring No.	NWB-08	NWB-018A	NWB-025	NWB-045	NWB-065	NWB-075	NWB-078A	
Sample No.	5	3	1	2	2	3	3	
Depth	8.5'-10.0'	3.5'-5.0'	0-2.0'	1.0'-2.5'	1.0'-2.5'	3.5'-5.0'	3.5'-5.0'	
LIQUID LIMIT (LL)	18	36	47	30	28	40	16	
PLASTIC LIMIT (PL)	15	20	36	17	17	21	15	
PLASTICITY INDEX (PI)	3	16	11	13	11	19	1	

Tested by MT/VH