ROADWAY GEOTECHNICAL REPORT

I-80 Phase II: Chicago Street to US 30

I-80 Mainline Roadway

Contract Number: 62R29, PTB 194-009

IDOT Job No. D-91-205-19

Will County, Illinois

Prepared for:

EXP US Services Inc.
205 North Michigan Avenue
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Prepared by:

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JOB NO. 20012
September 7th, 2022
Revised: November 22nd, 2022
March 22, 2023

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
An MBE - DBE Firm

September 7th, 2022
Revised: November 22nd, 2022
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: Roadway Geotechnical Report I-80
Contract No.: 62R29
Approximate Stationing: 780+25 to 924+90
IDOT Job Number P-91-185-09 / PTB 194-09
Will County, Illinois

Dear Mr. Hough:

The following report presents the geotechnical analysis and recommendations for the reconstruction and widening of Interstate Highway 80 from Chicago Street to US-30. A total of one hundred and fourteen (114) soil borings, seventy-nine (79) noise wall borings (for roadway analysis) and fourteen (14) pavement core borings are included with this Roadway Geotechnical Report (RGR); performed by Geo Services Inc. (GEO) in 2021.

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

Andrew J. Ptak, P.E.
Principal Engineer

ANDREW J. PTAK
062-052031
LICENSED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS

enc.

Expires 11/30/23

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SECTION 01: INTRODUCTION

This report presents the results of the geotechnical investigation for the roadway reconstruction and widening project on Interstate Highway 80 (I-80) in Will County, IL. A total of one hundred and fourteen (114) soil borings and fourteen (14) pavement cores are included with this Roadway Geotechnical Report (RGR); performed by Geo Services Inc. (GEO) in 2021. Plan and profile drawings provided by EXP for the proposed roadway alignments have been considered in developing the recommendations in this report.

Boring locations were selected by GEO and were reviewed and approved by EXP. Boring locations were laid out in the field by GEO personnel at the proposed locations. Elevations were taken using a survey grade GPS and can be seen on the boring logs.

This report includes descriptions of soil and groundwater conditions encountered and recommendations pertaining to the design and construction of the roadway as well as, a site location map, boring location diagram and boring logs.

SECTION 02: PROJECT DESCRIPTION

This report refers to the I-80 improvements and widening from Chicago Street to US-30. General information can be found in Appendix A, site map can be found in Appendix B, corresponding plan and profile drawings can be found in Appendix C, soil boring and core logs can be found in Appendix D, lab data can be found in Appendix E, and a copy of BBS 2640 and the SSR Triangle can be found in Appendix F.

SECTION 03: Geology and Pedology

According to the 1971 ISGS Circular #460: Summary of the Geology of the Chicago Area/ISGS Geologic Materials to a Depth of 20' - Will County, the surficial soils immediately adjacent to where Hickory Creek crosses the project corridor are categorized as Cahokia Alluvium deposits and the surficial soils on each side of this area are noted to generally belong to the Mackinaw Member of the Henry Formation. It is further noted that Silurian Dolomite is present within 20.0’ at the different location of the project corridor. Cahokia Alluvium soils generally consist of recent flood plain deposits of silt, sand and gravel which can be organic. Henry Formation deposits generally consist of sand and gravel deposited in valley trains which are typically well sorted and evenly bedded.

The Wetland Inventory database reviewed on-line at the US Fish & Wildlife Service website indicates that the only documented wetland that the project corridor crosses is Hickory Creek which is identified as a 36 acre, excavated, Riverine System-Lower Perennial Subsystem-Unconsolidated Bottom Class wetland that is located in a permanently flooded water regime. It is also noted that the Michigan Beach pond area located adjacent to the northeast corner of the project corridor is a 13.6 acre, excavated

Palustrine System-Unconsolidated Bottom Class wetland that is located in an Intermittently Exposed water regime.

The USDA Natural Resources Conservation Service Soil Survey database indicates that surficial soils in the vicinity of the project corridor are generally associated with various silt loams and loam materials. None of these soils are overly organic and potential frost action ranges from moderate to high.

According to readily available ISGS sources, there are no documented coal mining operations in near vicinity to the project site and seismic activity is noted to be very low.

The available geologic information indicates that the subgrade soils within the limits of the project corridor should generally consist of loams and silt loams with relatively shallow bedrock.

Appendix (G) of this report contains a Soil Resource Report from the USDA Natural Resource Conservation Services containing soil maps with soil types for the project site. The report included in Appendix I provide general information for the soils encountered in the upper 5 to 6 feet including soil units and drainage conditions for the project site. This information will be needed if a NPDES storm water permit is required for construction activities.

SECTION 04: CLIMATIC CONDITIONS

The climate within the area of this project site falls within the temperate humid, continental range and is characterized by cold conditions in the winter and warm conditions in the summer. The winter average daily temperature is 32^{o} F and the average daily minimum temperature is 18^{o} F. The summer average temperature is 64^{o} F and the summer average daily maximum temperature is 84^{o} F. The total annual precipitation for this area is 30.9" with approximately 60% falling between April and October.

Local Climatatological Data, as measured at O'Hare International Airport (ORD), for the three (3) month period prior to and during drilling, including average precipitation, average temperature and snowfall are summarized below:

Table 1 – Climate Conditions

MONTH	ppt (in)		Temp (°F)		Average Snow (in)
	Total	Mean	Average Min Temp.	Average Max Temp	
Dec	2.32	2.39	30	46	3.9
Jan	1.52	1.56	13	29	4.3
Feb	1.73	1.79	20	35	3.6
March	3.43	3.54	32	49	3.5
borings performed 11-2021 to 03-2022					

SECTION 05: SUBSURFACE INVESTIGATION PROCEDURES

The borings were performed between November 2021 and March 2022 (see boring logs for specific dates), with a truck-mounted drilling rig equipped with a CME automatic hammer, and were advanced by means of hollow stem augers to depths ranging from 10 to 30 feet. Representative soil samples were obtained employing split spoon sampling procedures in accordance with AASHTO Method T-206. 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 140pound 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. Samples obtained in the field were returned to our laboratory for further examination and testing.

SECTION 06: 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 representative portions of the samples obtained in the field. Graphs for the particle size or grain size can be found in Appendix E, and on the following Table 2 is a summary of the test data.

Table 2 - Lab Testing Data Summary

Boring No.	Location (Station)	Sample Depth (ft)	Material Description	Organic Content	LL	PI	P200
SGB-002	782+59	3.5-5.0	Sand (A-3)	-	-	-	8.5%

Boring No.	Location (Station)	Sample Depth (ft)	Material Description	Organic Content	LL	PI	P200
SGB-009	793+00	1.0-2.5	Silty Loam (A-6)	-	27	11	75.2%
SGB-010	794+53	3.5-5.0	Silty Clay Loam (A-6)	-	38	16	91.6%
SGB-011	797+50	3.5-5.0	Clay (A-6)	-	36	17	88.1%
SGB-016	808+04	3.5-5.0	Silty Loam (A-6)	-	36	17	79.6%
SGB-018	811+02	8.5-10.0	Sandy Loam (A-6)	-	29	11	49.1%
SGB-019	812+50	1.0-2.5	Silty Clay Loam (A-6)	-	31	15	79.6%
SGB-025	824+51	1.0-2.5	Silty Loam (A-4)	-	26	10	71.0%
SGB-026	826+03	3.5-5.0	Silty Loam (A-6)	-	31	13	87.9%
SGB-035	841+01	3.5-5.0	Silty Clay Loam (A-6)	-	26	11	74.6%
SGB-036	842+56	6.0-7.5	Clay Loam (A-6)	-	40	19	65.7%
SGB-045	855+99	3.5-5.0	Silty Loam (A-4)	-	22	8	75.5%
SGB-046	857+54	8.5-10.0	Silty Clay (A-6)	-	39	17	94.5%
SGB-055	870+96	3.5-5.0	Silty Clay (A-6)	-	40	18	93.8%
SGB-056	872+53	6.0-7.5	Silty Loam (A-4)	-	21	5	60.7%
SGB-063	883+03	1.0-2.5	Silty Clay Loam (A-6)	-	30	14	89.5%
SGB-066	887+52	6.0-7.5	Loam (A-4)	-	27	10	53.4%
SGB-073	898+00	1.0-2.5	Silt (A-6)	-	39	17	89%
SGB-075	901+02	6.0-7.5	Silty Clay (A-6)	-	33	14	87.5%
SGB-076	902+54	3.5-5.0	Silty Clay (A-7)	-	44	21	91.1%
SGB-081	910+00	3.5-5.0	Silty Loam (A-6)	-	37	13	82.8%
SGB-083	916+00	3.5-5.0	Silty Loam (A-6)	4.9%	38	15	87.3%
SGB-085	924+99	3.5-5.0	Clay Loam (A-6)	-	36	18	73.7%
SGB-086	827+80	6.0-7.5	Loam (A-6)	-	34	14	60.9%
SGB-111	61+92	3.5-5.0	Sandy Loam (A-2-4)	-	-	-	28.2%

SECTION 07: SOIL CONDITIONS

For specific boring information, reference can be made to the individual soil boring / core logs in Appendix D. Below is a summary of soil conditions found on those logs.

The I-80 pavement cores which were performed in the roadway between Chicago Street and US Route 30 (C-01 to C-14) generally encountered 8 to 15 inches of asphalt at ground surface overlying 12 to 30 inches of crushed stone. Asphalt depths varied greatly at some points along the road with the thinnest section (C-04) consisting of 8 inches of

asphalt over 10 inches of gravel. Some sections such as C-12 and C-13 consisted of a layer of asphalt overlying a 7 to 12 inch layer of concrete supported by an 18 inch layer of crushed stone base. Underlying the pavement and/or material at the ground surface, borings along I-80 generally encountered 2 to 10 feet of stiff to hard clay loam/silty clay subgrade soils. The sub-soils generally can be categorized as stiff to very stiff cohesive soils.

From approximate stations 730+00 to 805+00 shallow bedrock was encountered at depths ranging from 4 to 33 feet below existing grade. This may affect the western portion of the roadway in some cases.

SECTION 08: BURIED TOPSOIL CONDITIONS

Areas with buried topsoil were encountered in various locations along the alignment. The approximate intervals where buried topsoil layers were noted in the borings are shown in the following table:

Table 3 – Buried Topsoil Soil Conditions

Boring	Station	Depth (feet)	Elevation (feet)	Moisture Content (%)	Material Description
SGB-034	839+51	5.5-8.0	638.74-636.24	28	Topsoil
SGB-062	881+55	8.0-10.0	648.65-646.65	25	Topsoil
SGB-074	899+52	3.0-5.5	649.42-646.92	26	Topsoil
SGB-083	916+00	2.5-5.0	643.5-641.0	31	Organic Silty Clay
SGB-092	404+00	3.0-5.5	638.4-635.9	24	Topsoil
SGB-110	50+79	8.0-10.0	649.15-647.15	28	Topsoil
NWB-065	916+95	3.0-5.5	636.97-634.47	37	Organic Silty Clay

The actual soil conditions may vary from boring to boring and the conditions at the specific boring locations are noted on the boring logs. Variations in soil conditions between boring locations should be expected during construction.

SECTION 09: GROUND WATER CONDITIONS

Groundwater (when encountered) was generally observed at approximate depths ranging from 5.5 to 8 feet below the ground surface. Some borings were dry to a depth of 10 feet prior to termination of boring, however average water table height can be estimated by the presence of a color shift from brown to gray. We estimate the long-term water table depth to be between 5 and 9 feet on average from the surface. Fluctuations in the amount of water accumulated and in the hydrostatic water table can be anticipated depending on variations in precipitation and surface runoff.

SECTION 10: ANALYSIS

10.1 Drainage Conditions Analysis

The stratification lines shown on the boring logs represent the approximate boundary between soil types, and the actual transition may be gradual. Soils consisted of predominately stiff to hard silty clay, silty loam, or clay loam within the top 10 feet of the borings. Moisture contents for the clay soils were typically in the mid-teens to mid-twenties. Due to the silty clay/silty loam rated as A-4, A-6, or A-7 soil depending on location, greater than 0.5% grade slope, and anticipated shallow sloped ditches, we rate drainage conditions as “Poor”.

SECTION 11: ROADWAY RECOMMENDATIONS

11.1 Roadway Recommendations

Based on the boring logs, the subgrade soils beneath the existing roadway, consisting of clay loam/silty clay soils, are considered suitable for support of the proposed roadway with exception of the area outlined on the following Table 4.

Recommended Remedial Treatments

Table 4- Recommended Undercuts I-80 EB

Station (Boring, Sample Depth)	Cut or Fill	Subgrade Description (water content. Ft below proposed grade)	Unconfined Compressive Strength (tsf)	Approx. Subgrade Elevation (feet)	Elevation of Suitable Soil	Reason of Remedial Treatment	Remedial Treatment, Depth (inches)	Remedial Treatment [1]
57+64 to 67+00 (SGB-108, 1-2.5) (Briggs St. North of I-80)	Fill	Silty Clay-dark brown-stiff (Fill) (25%)	0.3	Vary	24-inches below the bottom of the aggregate subgrade layer	Low strength at subgrade elevation	24	Remove 24 inches of silty clay and replace with approved structural (granular) fill

The actual need for the recommended treatment should be determined in the field at the time of construction based on guidelines presented in the Illinois Department of Transportation Geotechnical Manual under the direction of a licensed geotechnical engineer. Evaluation of soils in the field should be performed based on the guidelines presented in the IDOT Subgrade Stability Manual. If poor soil conditions (very soft, organic or peat soils) are encountered at the time construction, differing than those encountered in this report, the Geotechnical Engineer should be consulted. Heavy equipment traffic directly on the undercut subgrade should be minimized. All potentially unstable soils should be tested with a cone penetrometer and treated in accordance with Article 301.04 of the SSRBC and the undercut guidelines in the IDOT Subgrade Stability Manual.

It is recommended that the unsuitable soils be removed and replaced with suitable fill material (undercuts), all undercut should be measured from the bottom of the 12-inch aggregate-based course layer below the proposed pavement. After removal of the unsuitable soil, a non-woven geo fabric in accordance with Article 210, Fabric for Ground Stabilization, of the SSRBC should be placed to stabilize the subgrade soil at low strength subgrade area before placement of the structural fill. Selection of fill material and placement should conform to the IDOT District 1 Special Provision Section 303: Aggregate Subgrade Improvement

For excavations extending into the higher approach roadway embankments and wherever deeper undercuts (≥ 4 feet below design bearing elevations) are necessary, a temporary soil retention system to be designed by the Contractor (or as directed by the Engineer, as specified in IDOT GBSP 44) will likely also be required to support the embankment during excavation and wall construction.

11.2 Topsoil Recommendations

In addition to the above undercuts, it should be expected that approximately 0 to 36 inches of topsoil to be present at the surface in the areas where the widening is proposed that will require topsoil stripping. It is expected that greater topsoil thicknesses and/or higher moisture soils will also be encountered in the ditch areas. For quantity estimation, we recommend topsoil stripping to an average depth of 10 inches be included in the construction plans.

11.3 Subgrade Rating and Borrow Fill Recommendations

The majority of the subgrade consists of silty clay/clay loam cohesive soils. The roadway should be designed with a Subgrade Support Rating (SSR) of Poor to Fair. We recommend that the pavement design be performed utilizing a Poor rating, with an Illinois Bearing Ratio (IBR) of 2.0. Also, we recommend a shrinkage factor of 15% for cohesive or granular soils.

Prior to placing any borrow fill at the site, it is recommended that the exposed surface at or near grade be proofrolled with the heaviest available equipment to determine if there are any localized deposits of soft or unsuitable materials. During the proofrolling procedure, the exposed surface is rolled with the heaviest piece of construction equipment available at the site, such as a heavily loaded tandem axle dump truck having a gross weight of not less than 25 tons. Any such deposits, as observed by deflection of the subgrade under the wheels of the proofrolling equipment, should be removed and replaced with an approved fill free of organic matter and debris. The silt and silty clay loam soils are sensitive to moisture changes and some softening/disturbance of the exposed soils should be expected following periods of precipitation. If any remediation is required at the time of construction, it may include undercutting and placement of a stabilization stone such as IDOT gradation CA-1 or PGEs materials or approved fill material.

In addition, borrow and excavation material should be in accordance with Section 8.4 of the IDOT Geotechnical Manual. In particular, soils should be tested and conform to the required testing and permissible limits as defined in the following table (taken from Table 8.4-1 in the IDOT Geotechnical Manual). Materials that do not meet the permissible limits should be confined to the embankment core with at least 24-inches of cover material which meets the testing requirements in the following Table 5.

Table 5 – Requirements of Borrow Soils for Top 24-in Subgrade

Required Test	AASHTO Method	Permissible Limit
SDD (at OMC)	T-99 (Method C)	90 pcf min [1]
Organic Content	T-194	10% max
Percent Silt and Fine Sand	T-88	65% max [2]
PI	T-90	12% min
LL	T-89	50% max
Shear Strength © at 95% SDD	T-208 or T-234	1,000 psf min [3]
SO_3 [4]	ASTM C-618	5% max

Notes: 1. As Per Standard Specification.
2. Frost Susceptibility Criteria.
3. For Engineered Embankments which are greater than 15ft in height or greater.
4. Only for CCB.

Fill materials placed at the site should consist of an inorganic approved material, compacted to a minimum 95% of AASHTO T-99 (ASTM D-698), Standard Proctor method. Moisture levels for fill material should be maintained within a maximum +/- 3% of the optimal moisture content or as directed by the engineer.

Construction of the proposed roadway improvements should be performed in accordance with the current Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction. In particular, refer to Section 202, "Earth and Rock Excavation", Section 205, "Embankment" and Section 301, "Subgrade Preparation".

11.4 Drainage Recommendations

As noted in Appendix F, the majority of the roadway is considered to have a drainage class of "Poor". However, underdrains are required at low areas in the profiles to properly drain the 12-inch aggregate subgrade. Transverse underdrains should be installed at the low points of the alignments, and then continued at an interval of 500' between low points, except at high points. The drains should be 4-inch diameter, placed at a depth of 30 inches and installed in accordance with IDOT Standard Specifications Section 601.

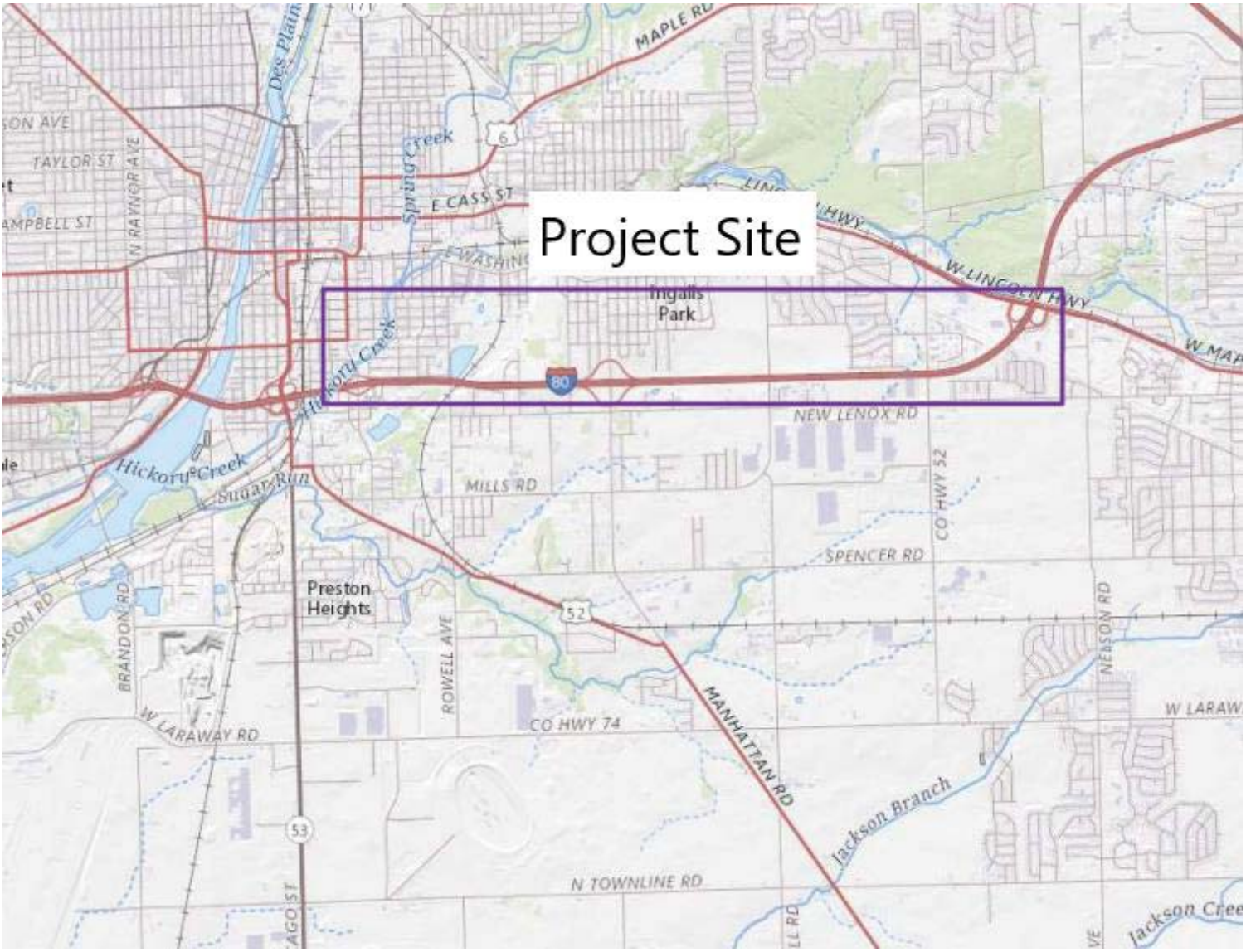
SECTION 12: GENERAL QUALIFICATIONS

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 B

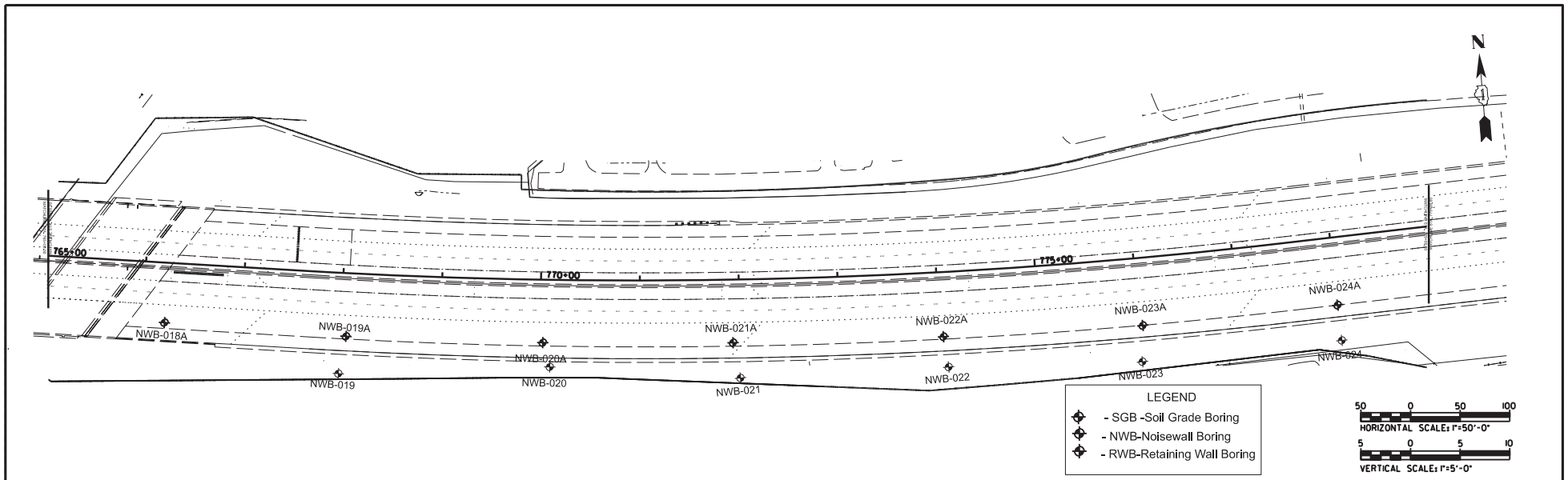
SITE MAP

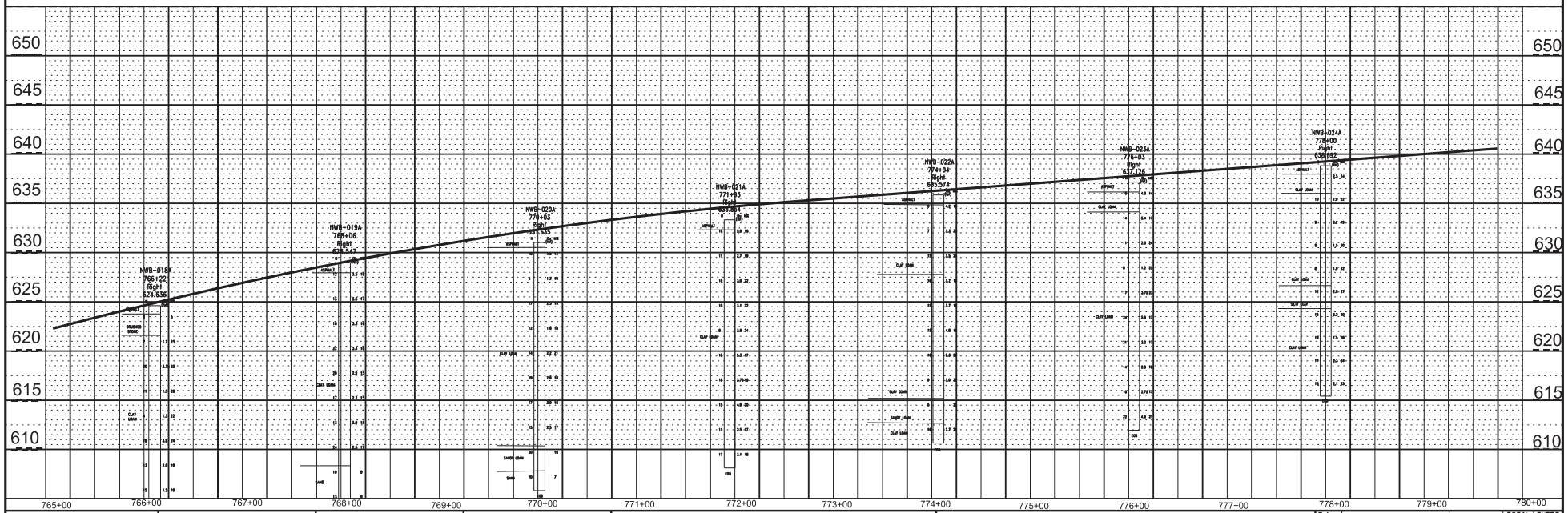


SITE MAP			
IL 60/83 RGR, Interstate-80, Joliet, IL 60433	**Geo Services, Inc.** Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838	DRAWN BY	SP
		APPROVED BY	AT
		DATE	September 7, 2022
		GSI JOB No.	20012
		SCALE	NTS

APPENDIX C

PLAN & PROFILE





PLAN — SURVEYED / PLOTTED / DRAWN / CHECKED / ALIGNMENT CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / DRAWN / CHECKED / ALIGNMENT CHECKED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

Geo Services, Inc.

FILE NAME = $FILE$ | USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

DESIGNED - | CHECKED - | DRAWN - GS | CHECKED -

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

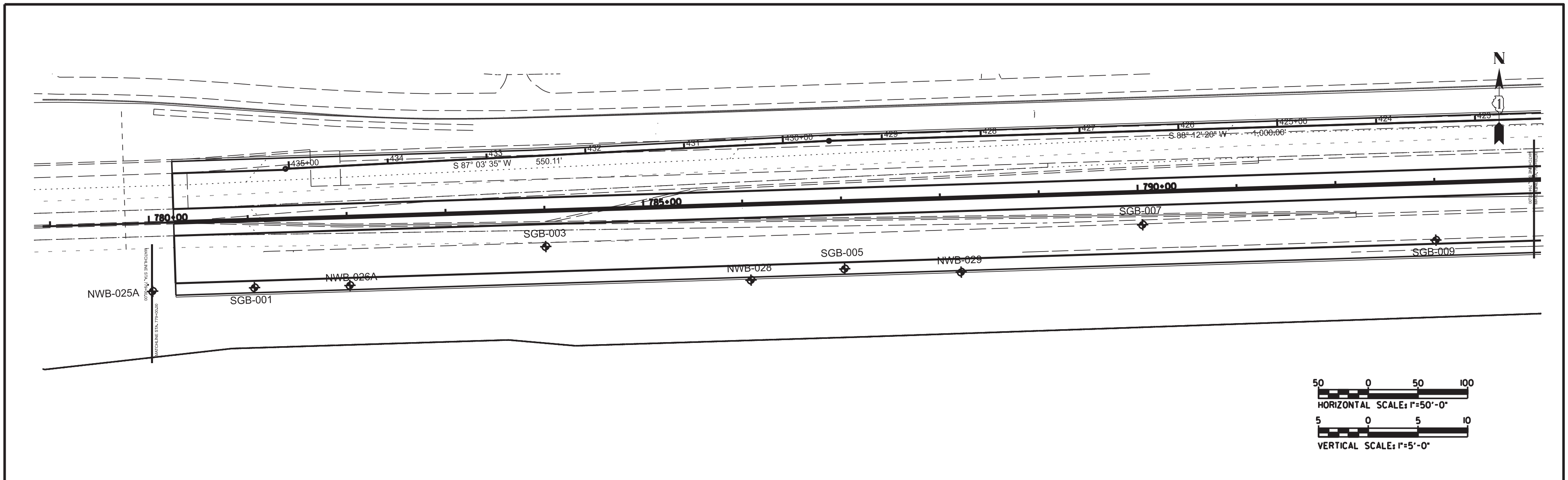
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

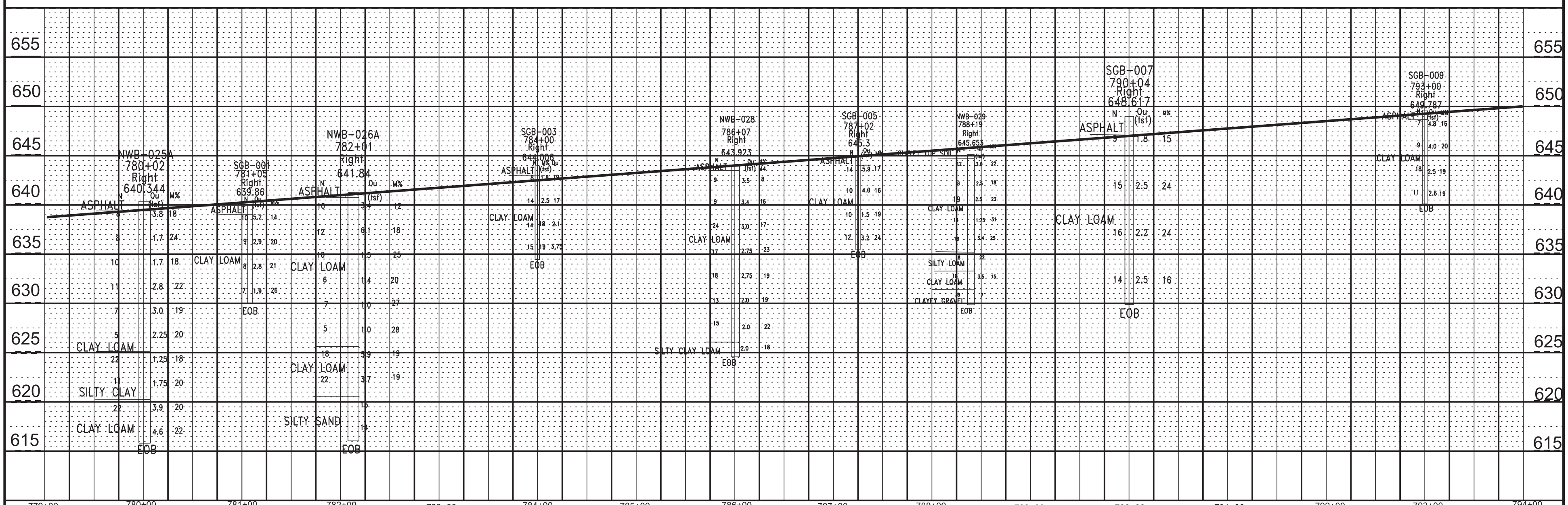
SCALE: | SHEET 1 OF 06 | STA 765+00 TO STA. 779+00

F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO.

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT





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		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - GS	REVISED -
	PLOT DATE = $DATE$	CHECKED - AJP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

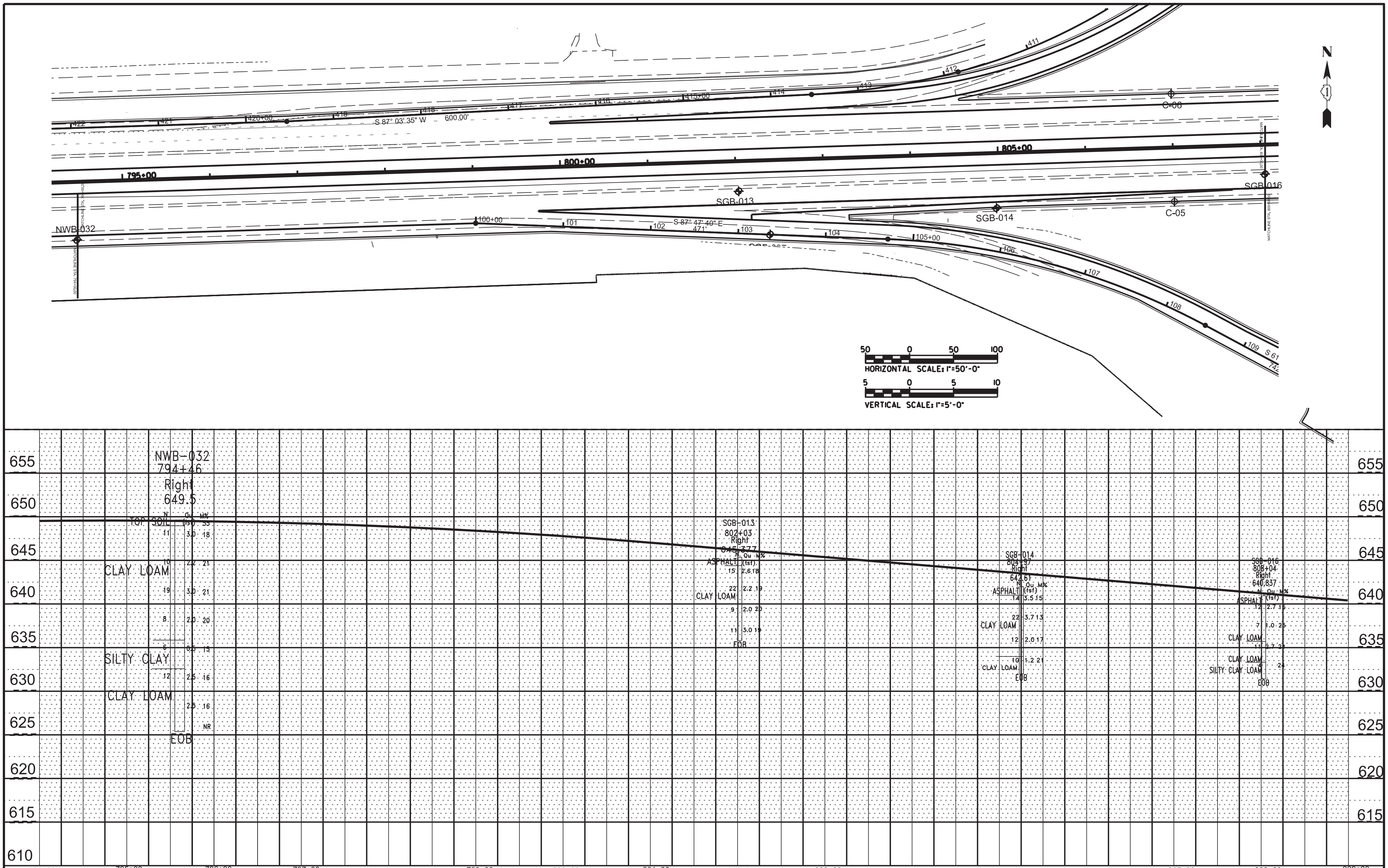
SCALE: | SHEET 2 OF 23 | STA. 779+00 TO STA. 794+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	2
		CONTRACT NO.		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME; NOTE BOOK NO. ___ | BY | DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD; NOTE BOOK NO. ___ | BY | DATE



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Geo Services, Inc.	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DRAWN - GS	REVISED -
		CHECKED - AJP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

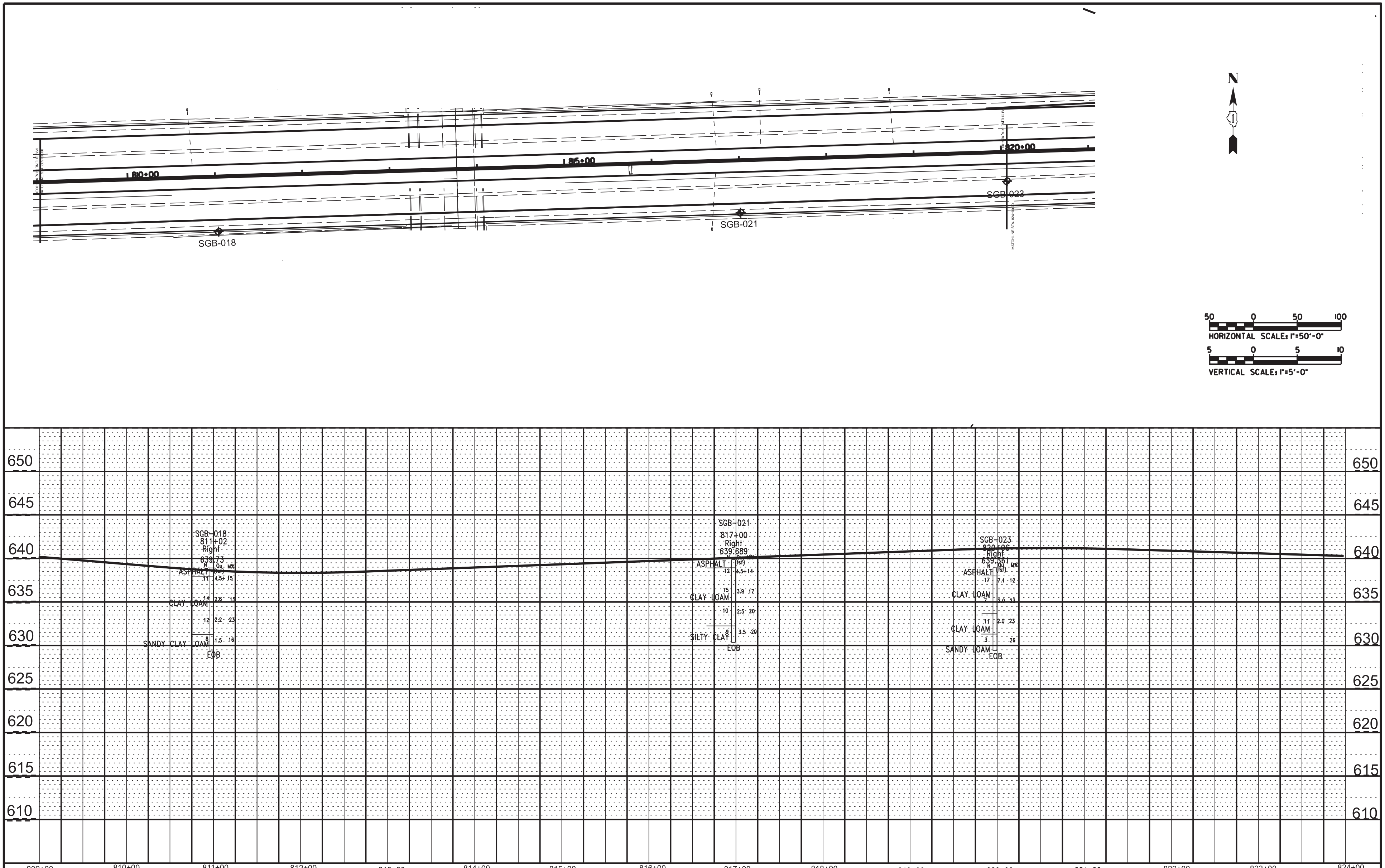
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: 1"=50' | SHEET 3 OF 23 | STA. 794+00 TO STA. 809+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	3

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — BY — DATE

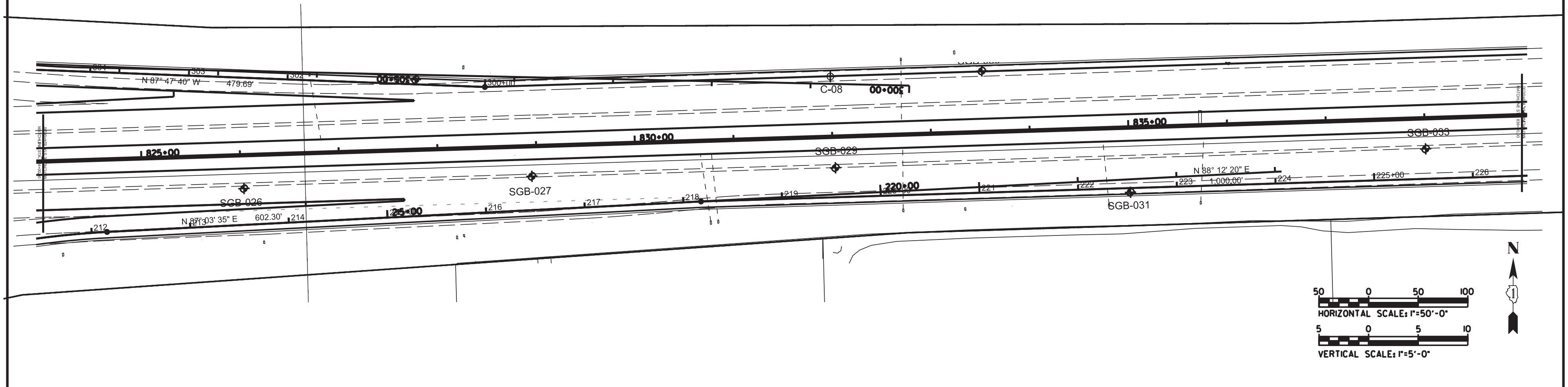
FILE NAME = Geo Services, Inc.	USER NAME = $USER$	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - GS	REVISED -
	PLOT DATE = $DATE$	CHECKED - AJP	REVISED -

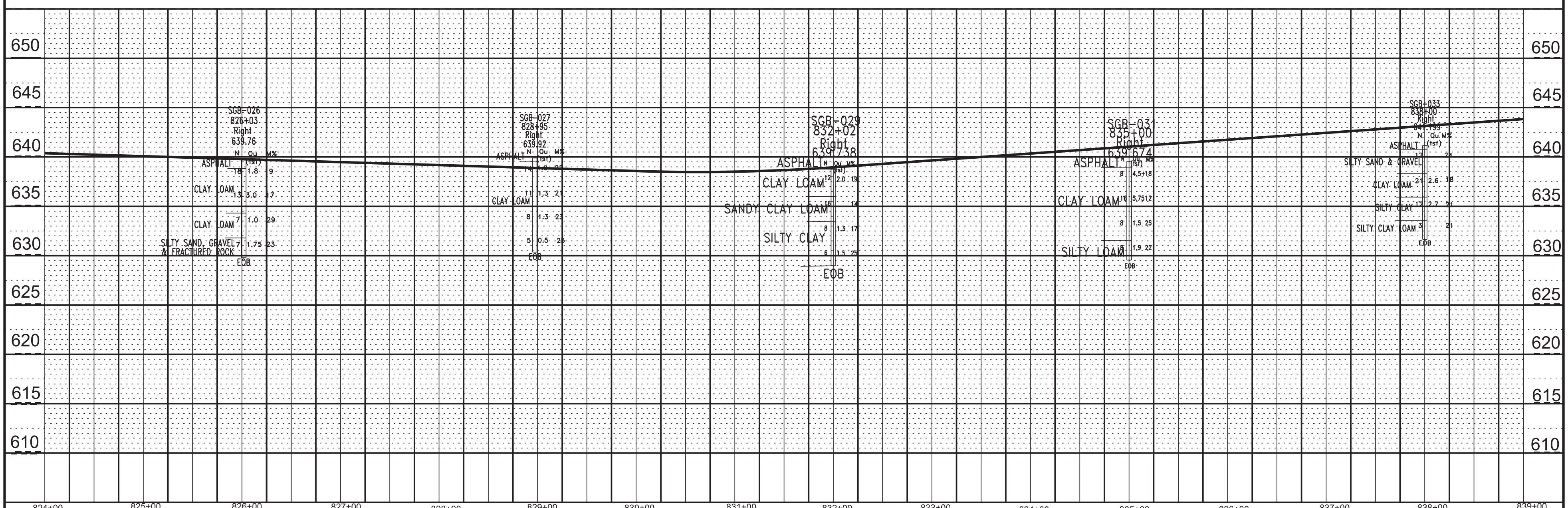
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: 1"=50' | SHEET 4 OF 23 | STA. 809+00 TO STA. 824+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	4
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK NO. — BY — DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK NO. — BY — DATE

FILE NAME = $FILEL$

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

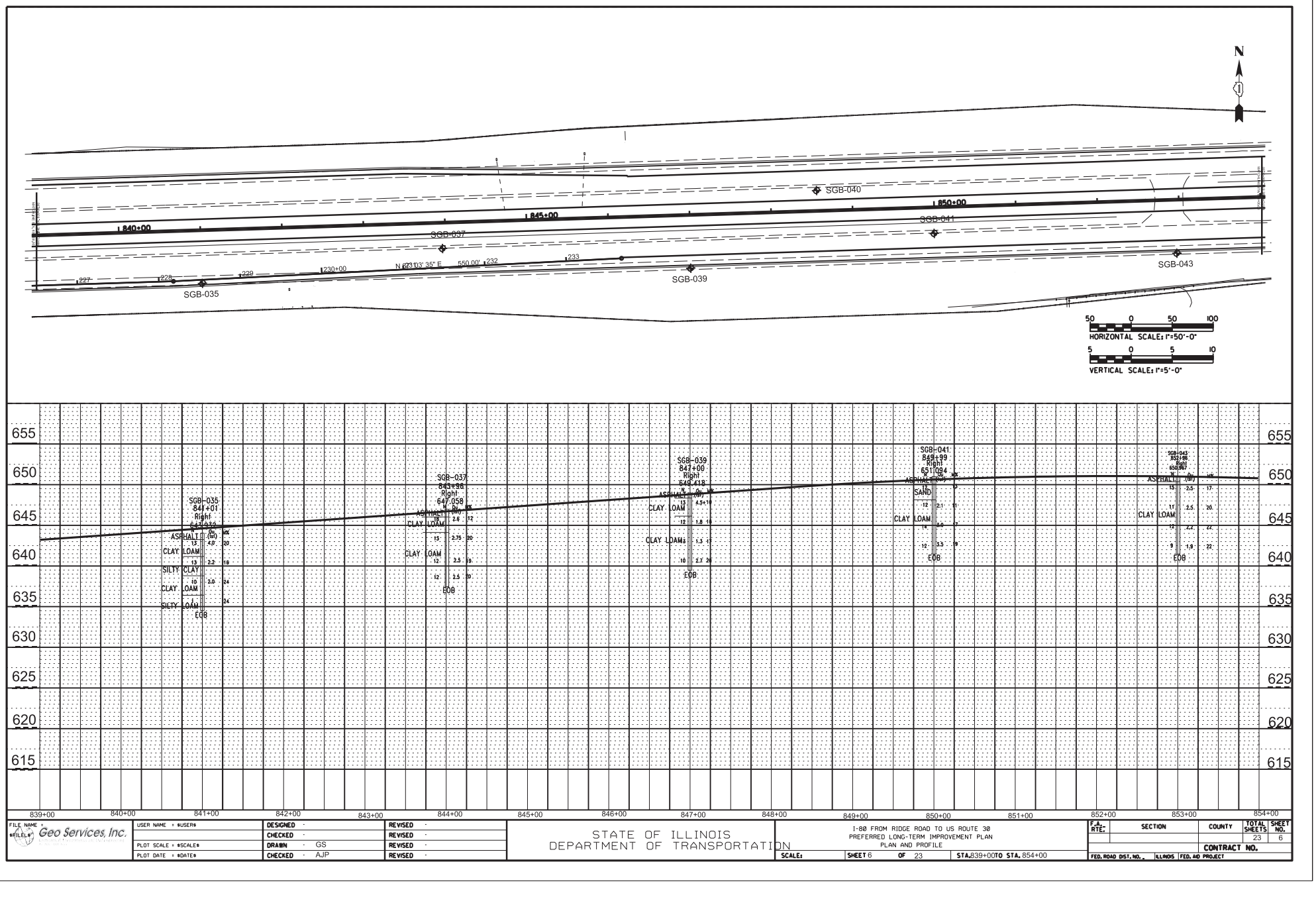
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: 1"=50' | SHEET 5 OF 23 | STA. 824+00 TO STA. 839+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	5

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / GRADES CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / STRUCTURE NO&YR'S CKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = $FILE1$ — Geo Services, Inc.

USER NAME = $USER$	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = $SCALE$	DRAWN - GS	REVISED -	
PLOT DATE = $DATE$	CHECKED - AJP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

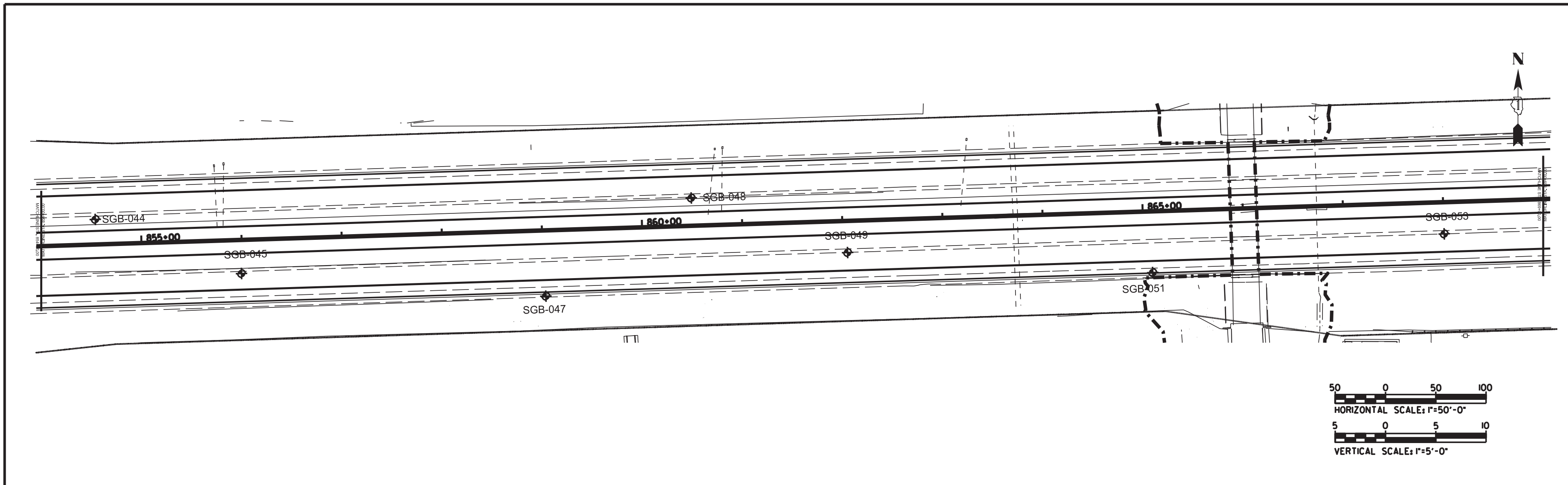
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

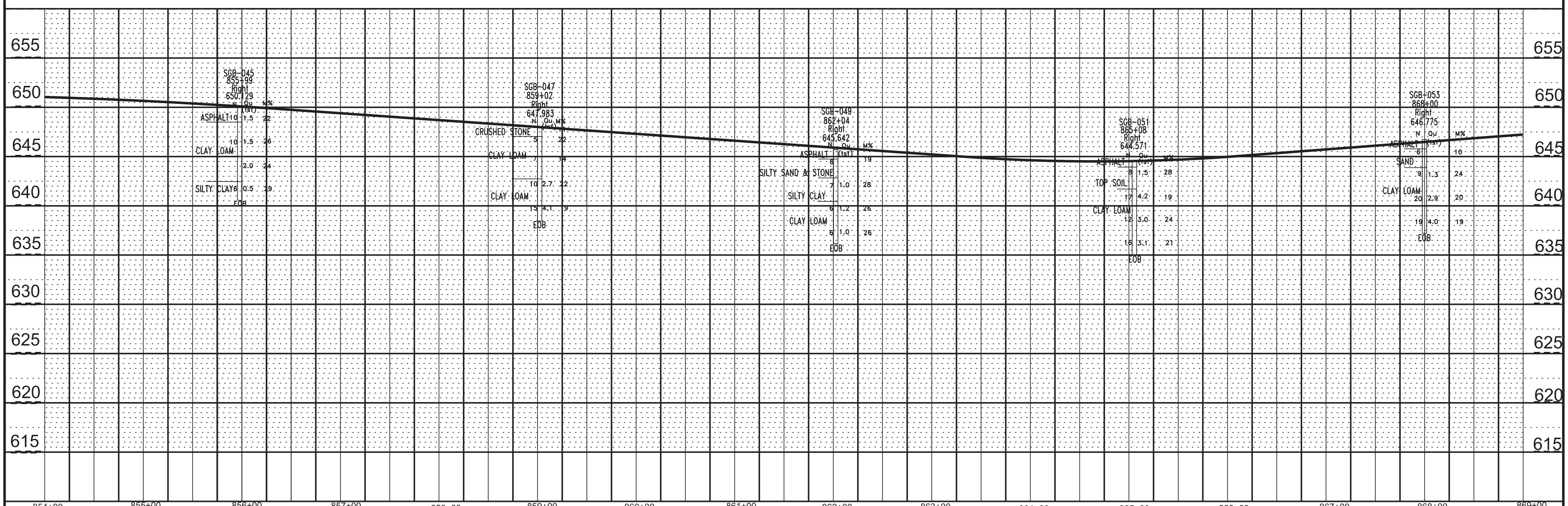
SCALE: | SHEET 6 OF 23 | STA. 839+00 TO STA. 854+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	6

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT





PLAN — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
Geo Services, Inc. Geotechnical, Environmental and Civil Engineering		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

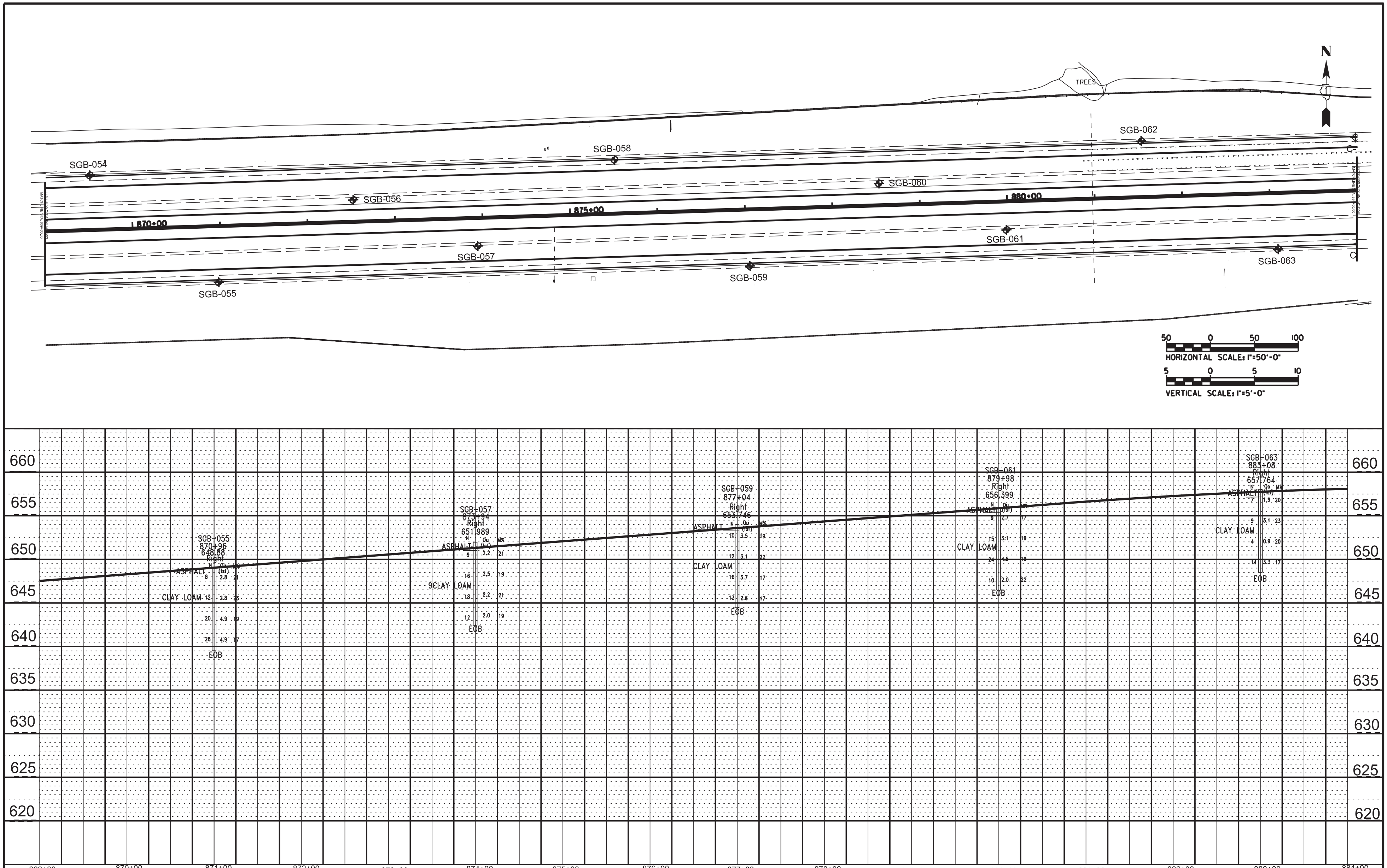
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 7 OF 23 | STA. 854+00 TO STA. 869+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	7
		CONTRACT NO.		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



FILE NAME = $FILEL$

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

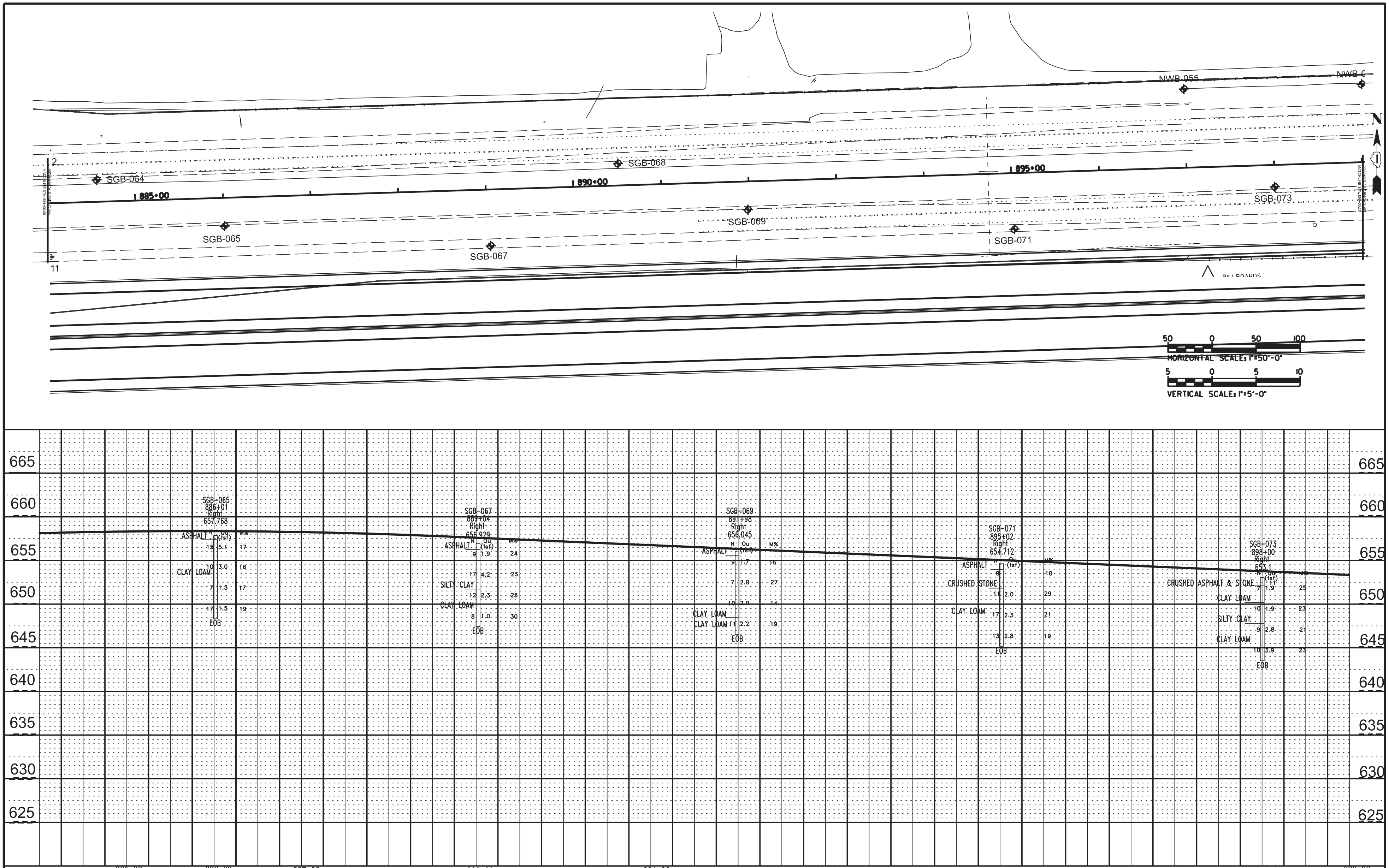
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 8 OF 23 | STA. 869+00 TO STA. 884+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	8

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHK'D, NOTE BOOK NO. — BY — DATE

FILE NAME = $FILEL$

Geo Services, Inc. — Geotechnical, Environmental and Civil Engineering

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

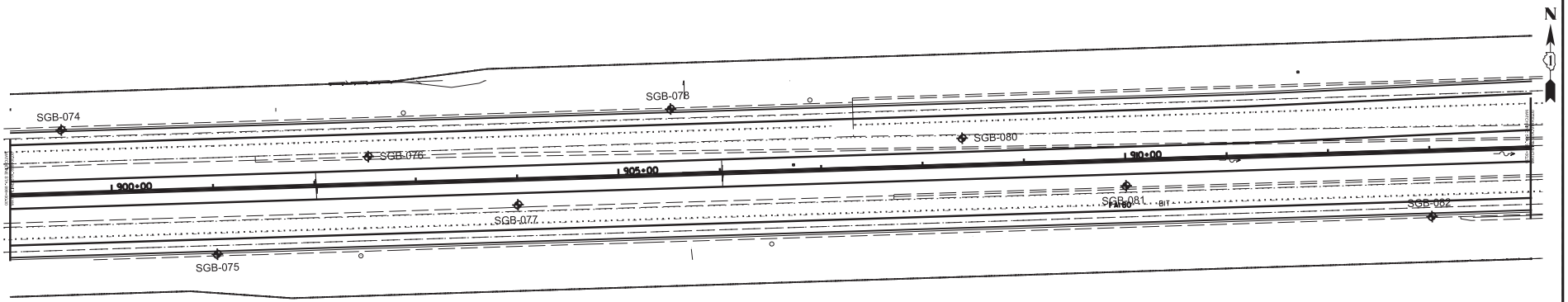
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 9 OF 23 | STA. 884+00 TO STA. 899+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	9

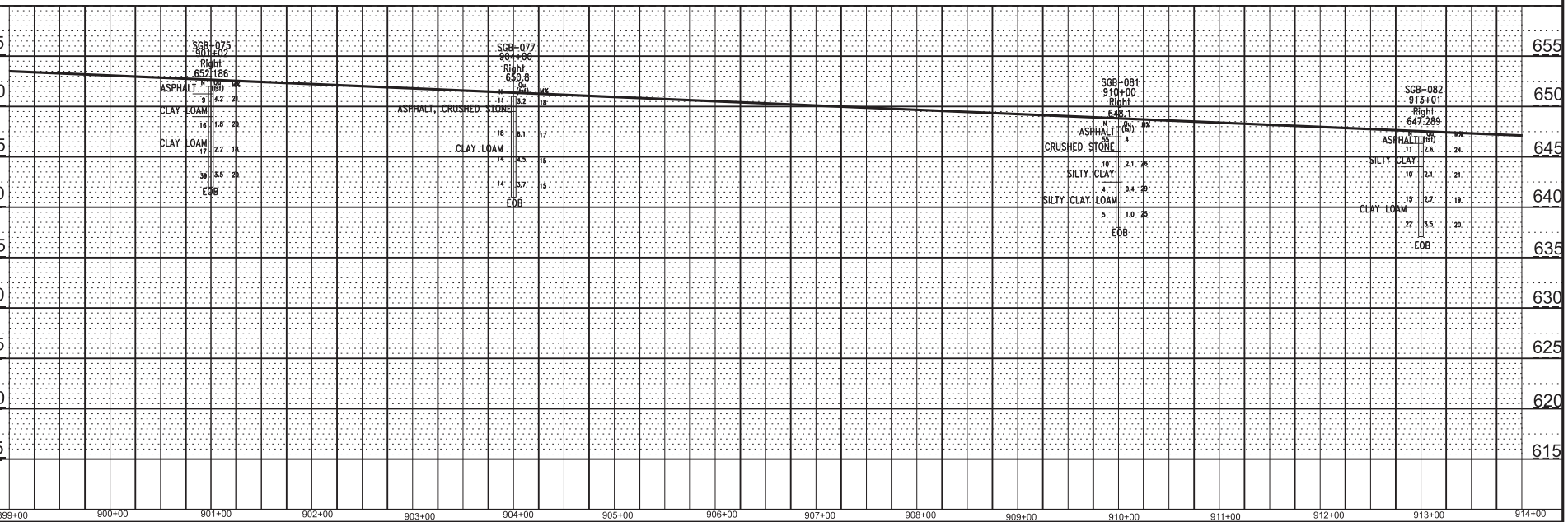
CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



HORIZONTAL SCALE: 1"=50'-0"

VERTICAL SCALE: 1"=5'-0"



PLAN — SURVEYED / DRAWN / ALGEBRAIC CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / STRUCTURE NOTATIONS CKHD / NOTE BOOK / NO. / BY / DATE

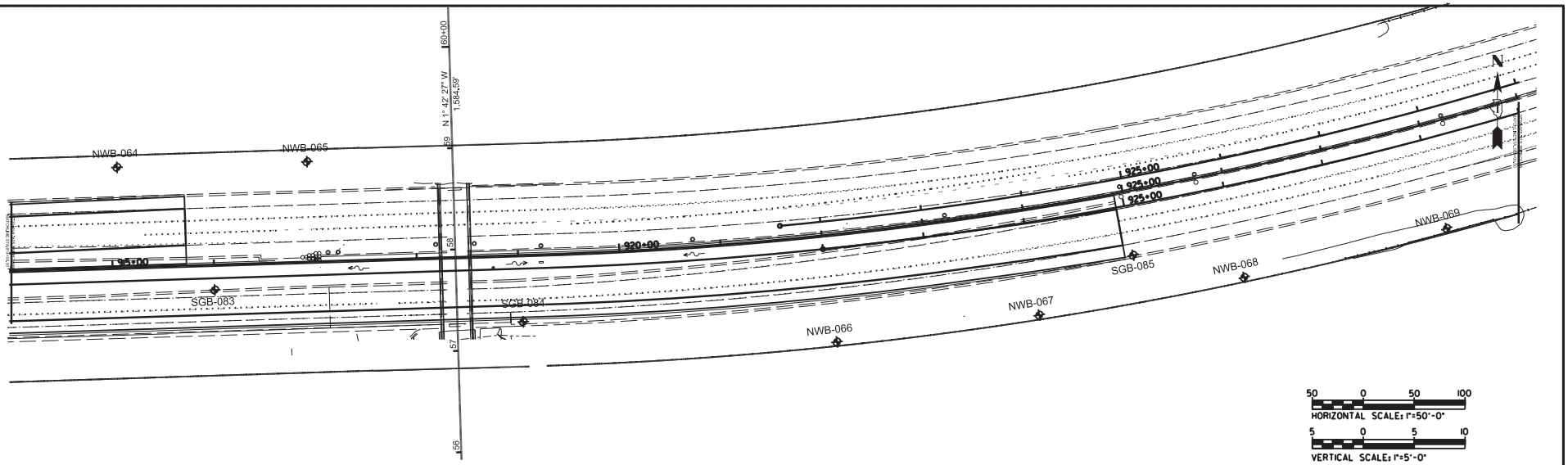
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
Geo Services, Inc.		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

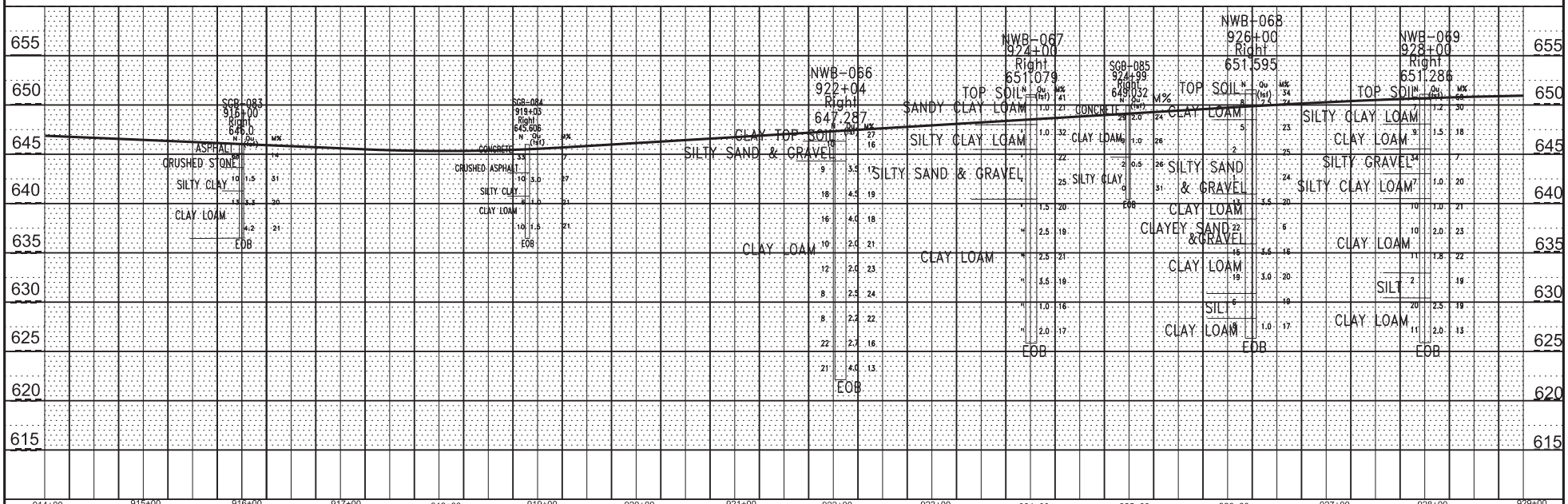
SCALE: | SHEET 10 OF 23 | STA. 899+00 TO STA. 914+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	10
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE



FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -
	PLOT DATE = #DATE#	CHECKED -	REVISED -

Geo Services, Inc.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

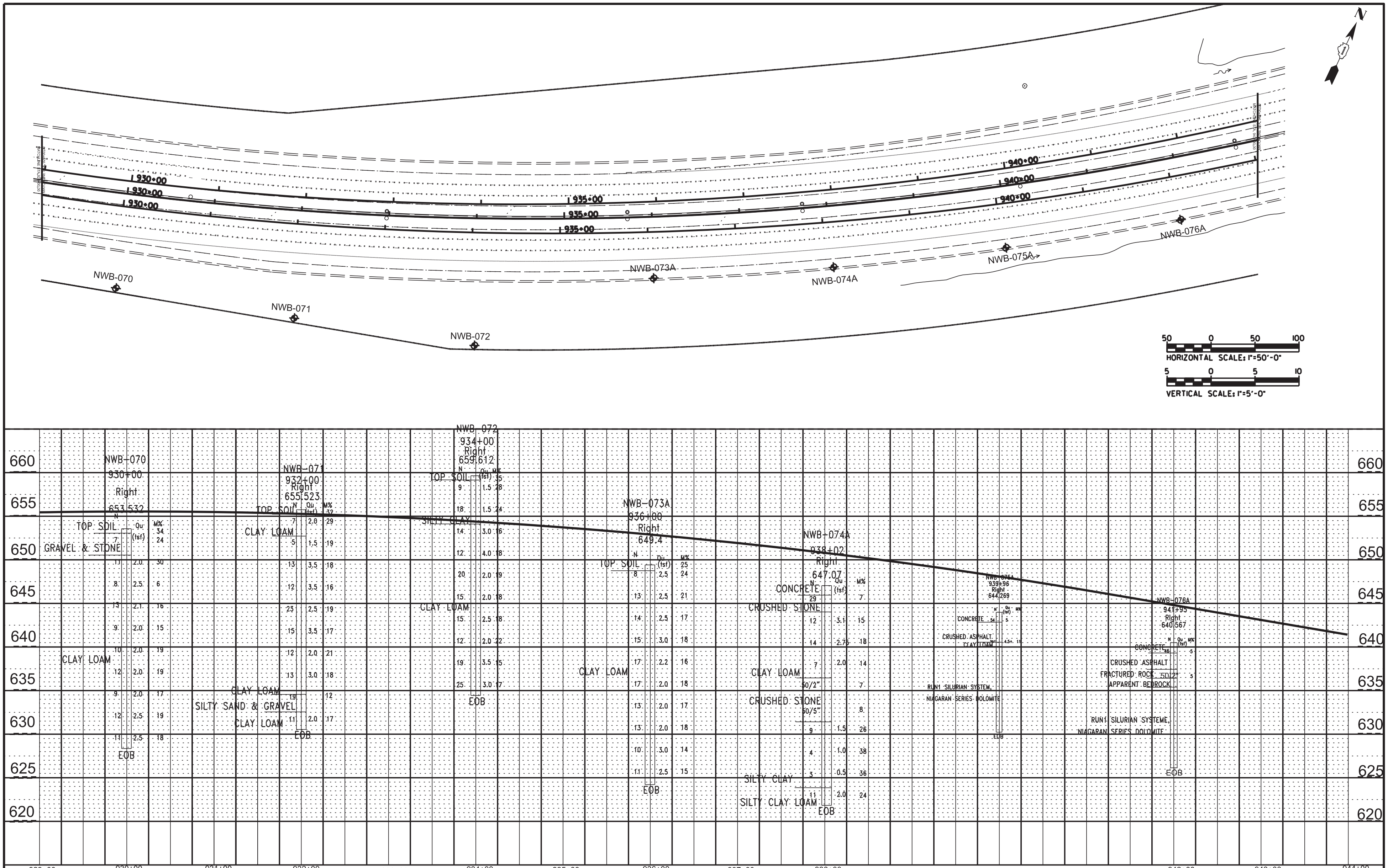
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 11 OF 23 | STA. 914+00 TO STA. 929+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	11

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = $FILEL$ — Geo Services, Inc. — Geotechnical, Environmental and Civil Engineering

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

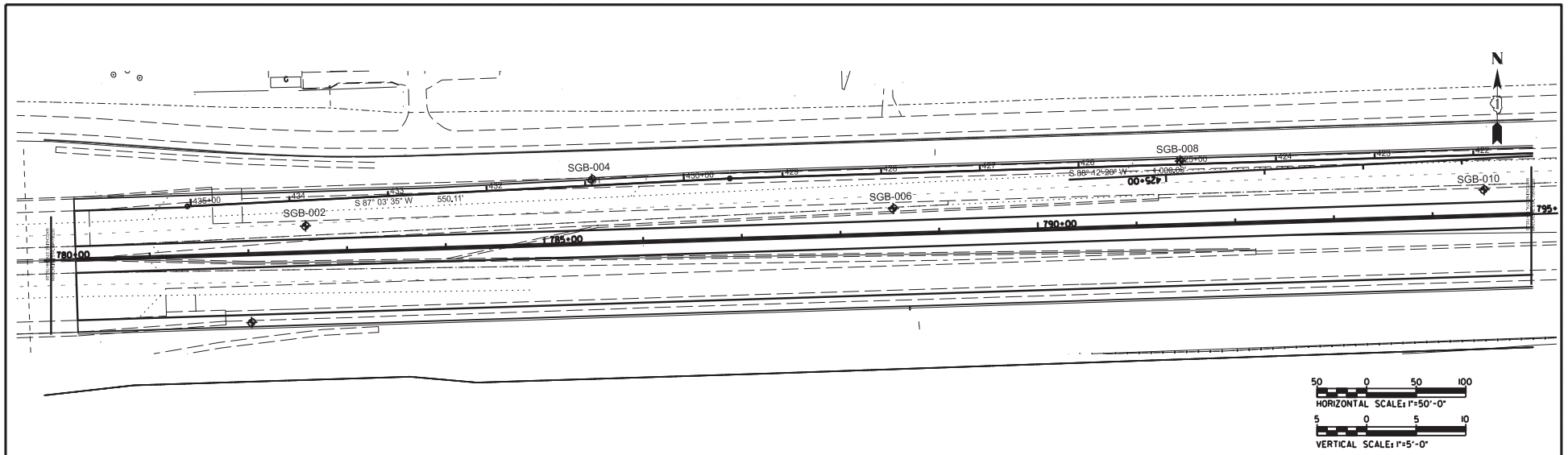
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

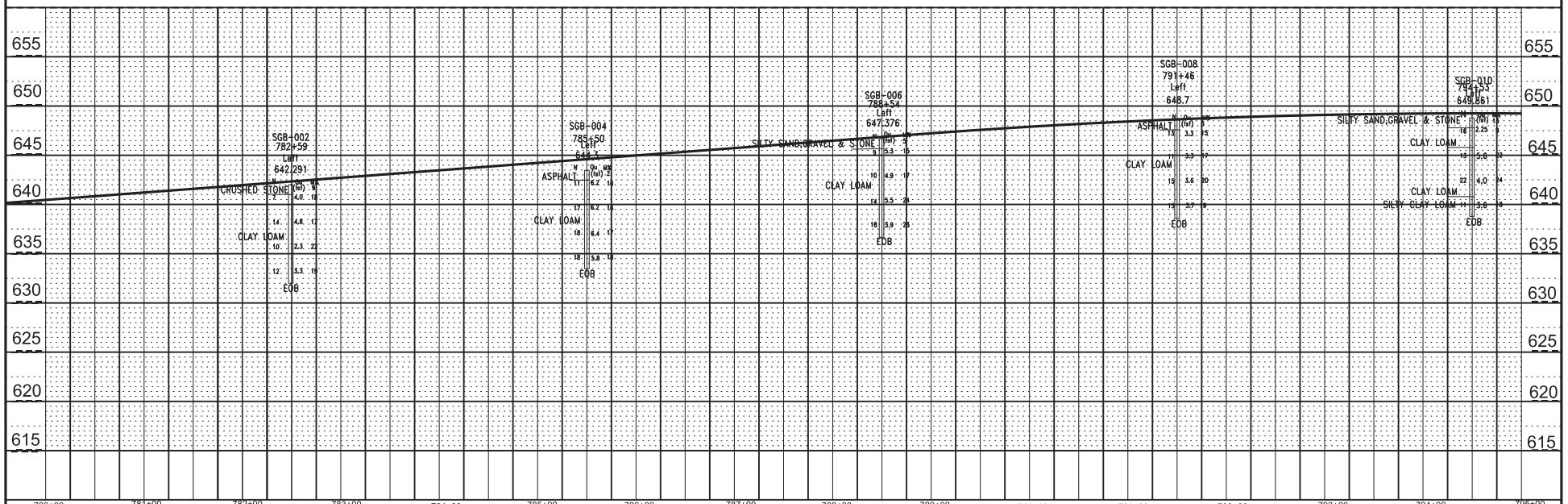
SCALE: | SHEET 12 OF 23 | STA. 929+00 TO STA. 943+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	12

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT





PLAN — SURVEYED, PLOTTED, CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, CHECKED, NOTE BOOK, NO., BY, DATE

FILE NAME = $FILEL$ | USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

Geo Services, Inc.

DESIGNED	REVISED
CHECKED	REVISED
DRAWN	REVISED
CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

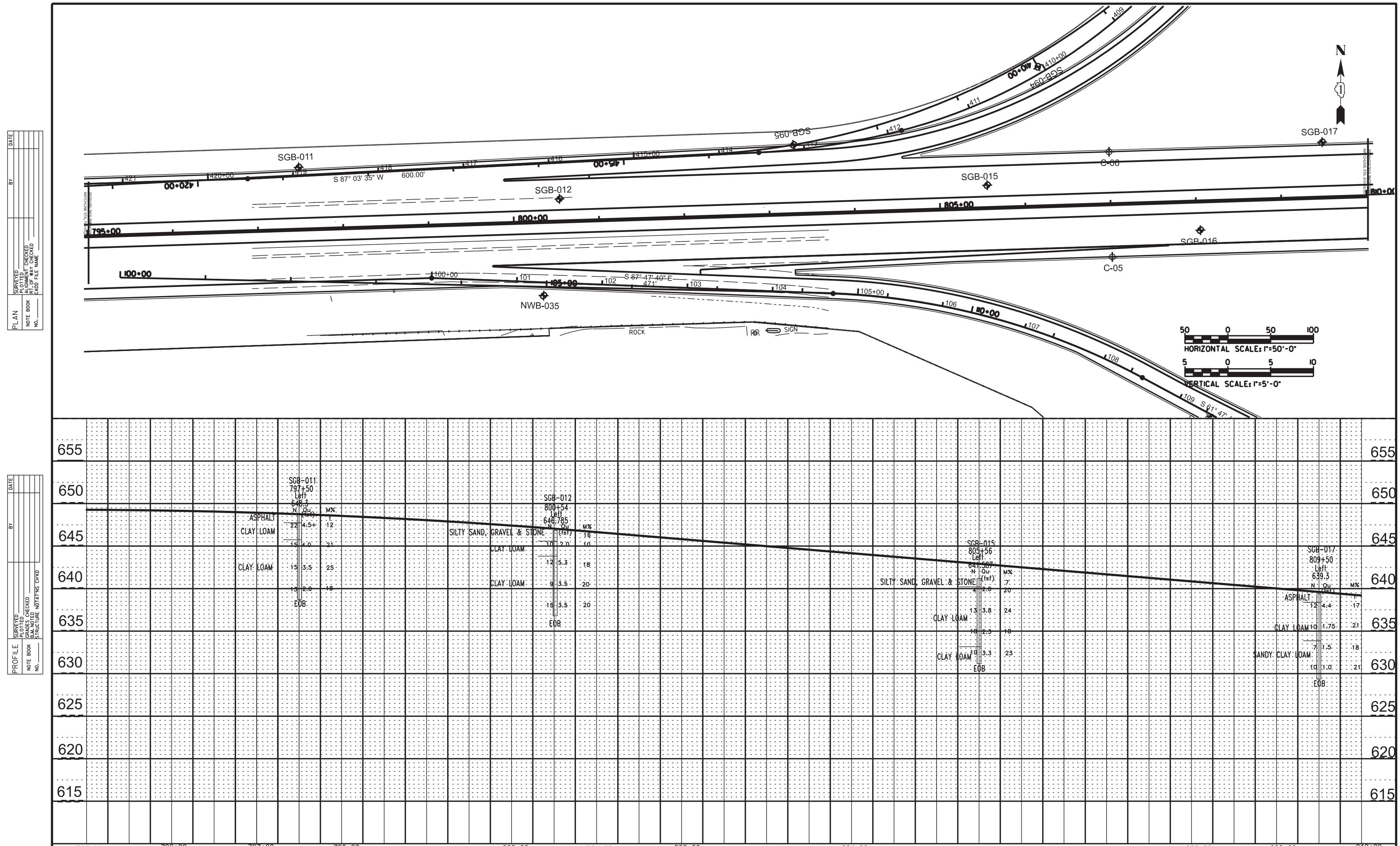
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 14 OF 23 | STA. 780+00 TO STA. 795+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	14

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



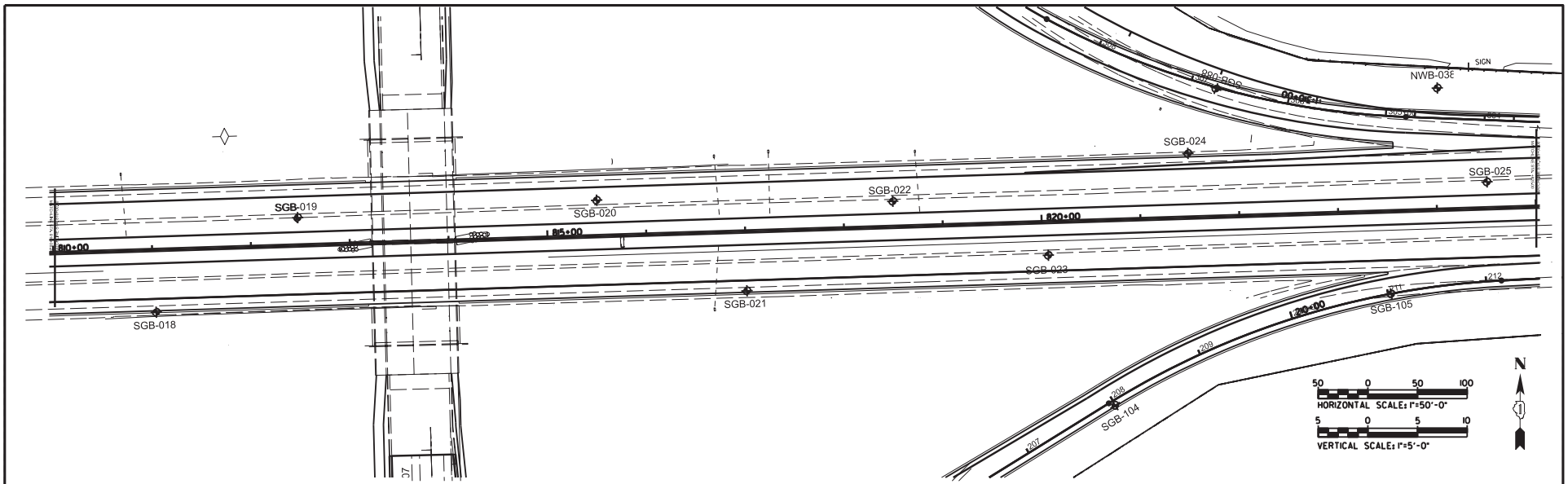
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
Geo Services, Inc.		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

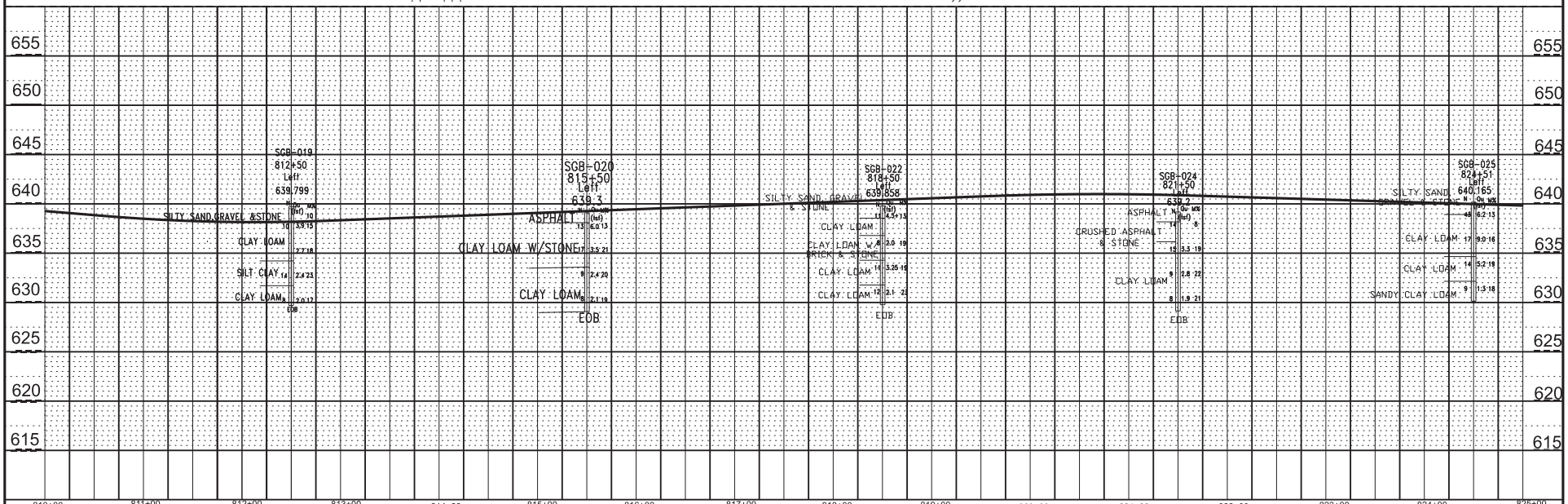
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 15 OF 23 | STA. 795+00 TO STA. 810+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	15
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / GRADES CHECKED / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / ALIGNMENT / STRUCTURE NO(S)/PKG CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = $FILE$ — Geo Services, Inc.

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

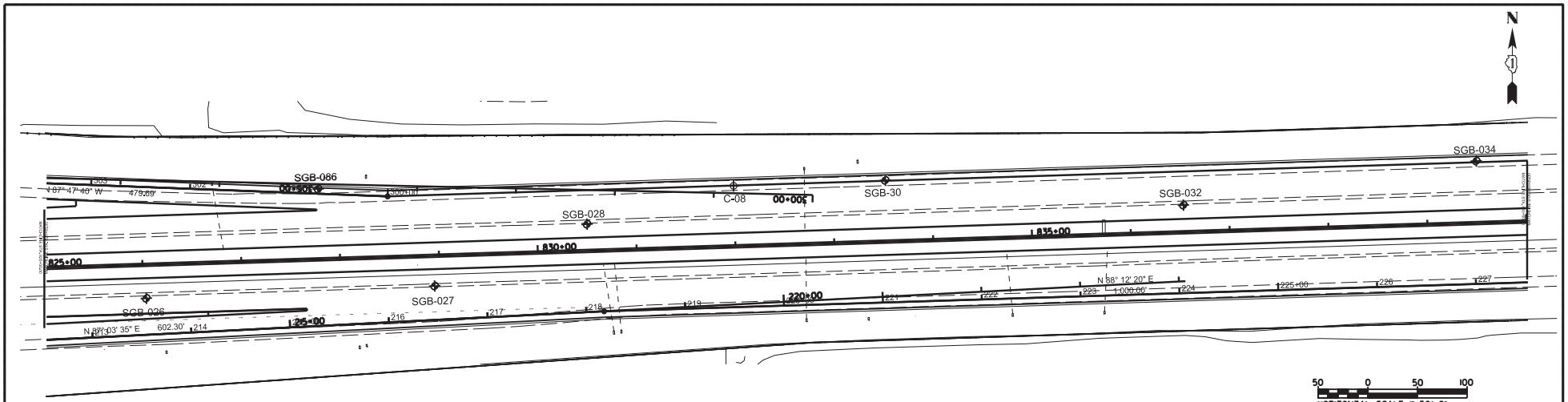
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: ##+00 | SHEET 16 OF 23 | STA. 810+00 TO STA. 825+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	16

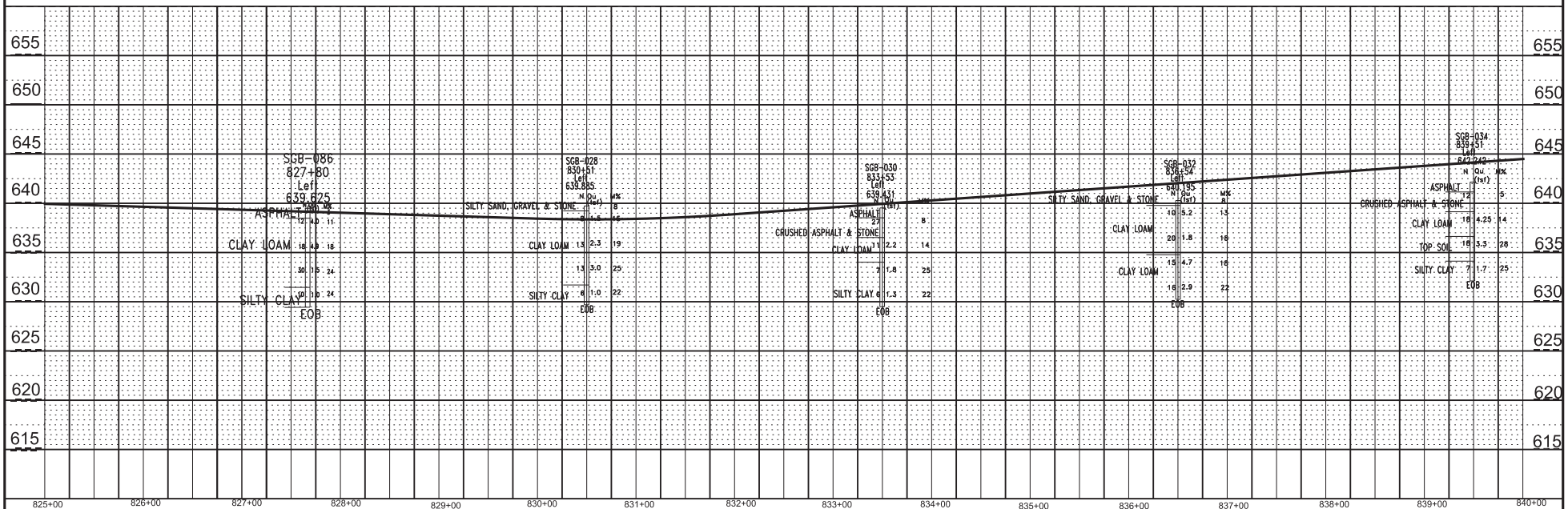
CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PLAN
PLOTTED
PLOTTED BY
ALIGNMENT CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
PLOTTED
PLOTTED BY
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NO(S)/PNS OR/HD
BY
DATE



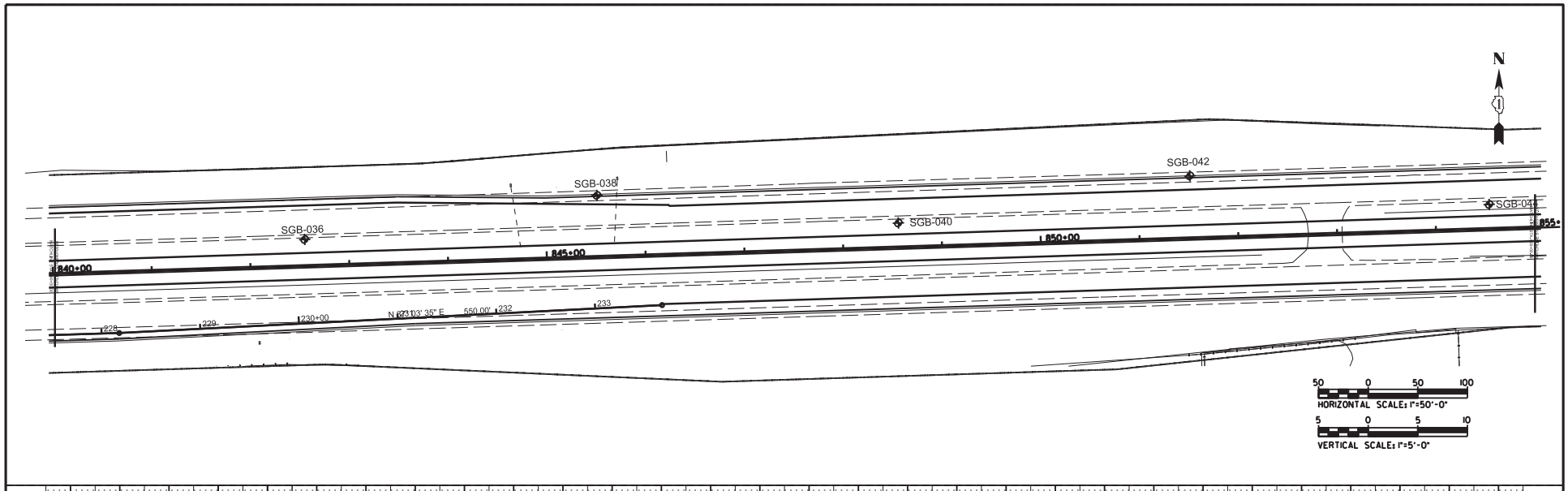
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
Geo Services, Inc.		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 17 OF 23 | STA. 825+00 TO STA. 840+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	17
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
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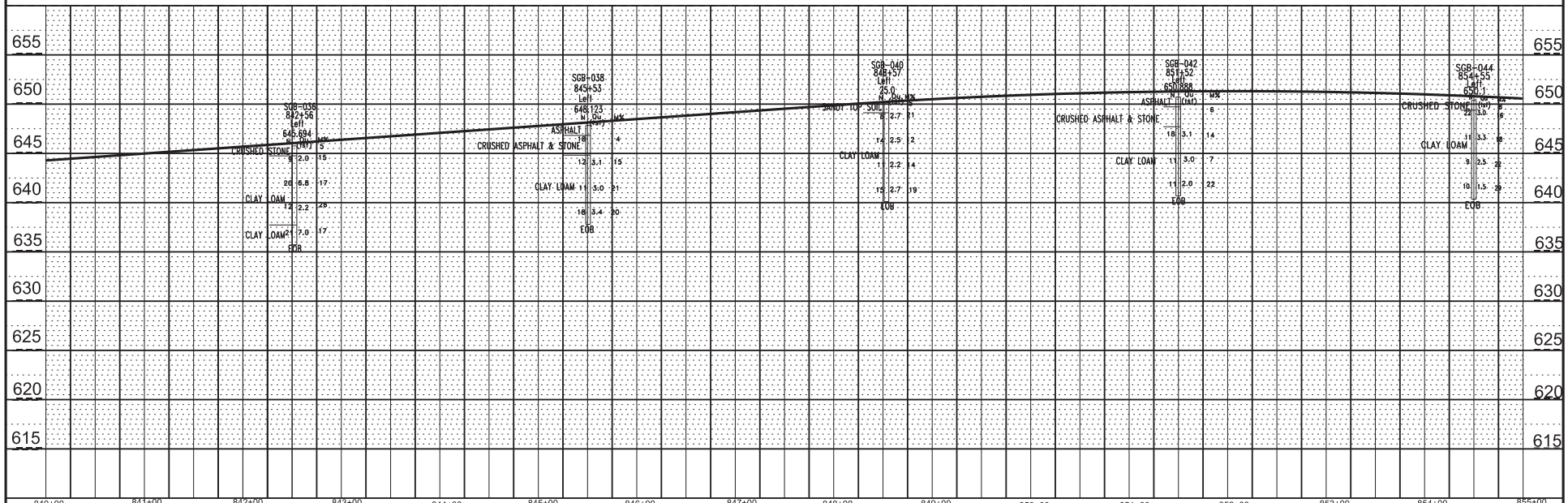
PLOTTED BY
ALIGNMENT CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE



PROFILE
DRAFTED BY
PLOTTED BY
GRADES CHECKED
STRUCTURE NO.
NOTE BOOK
NO.
DATE

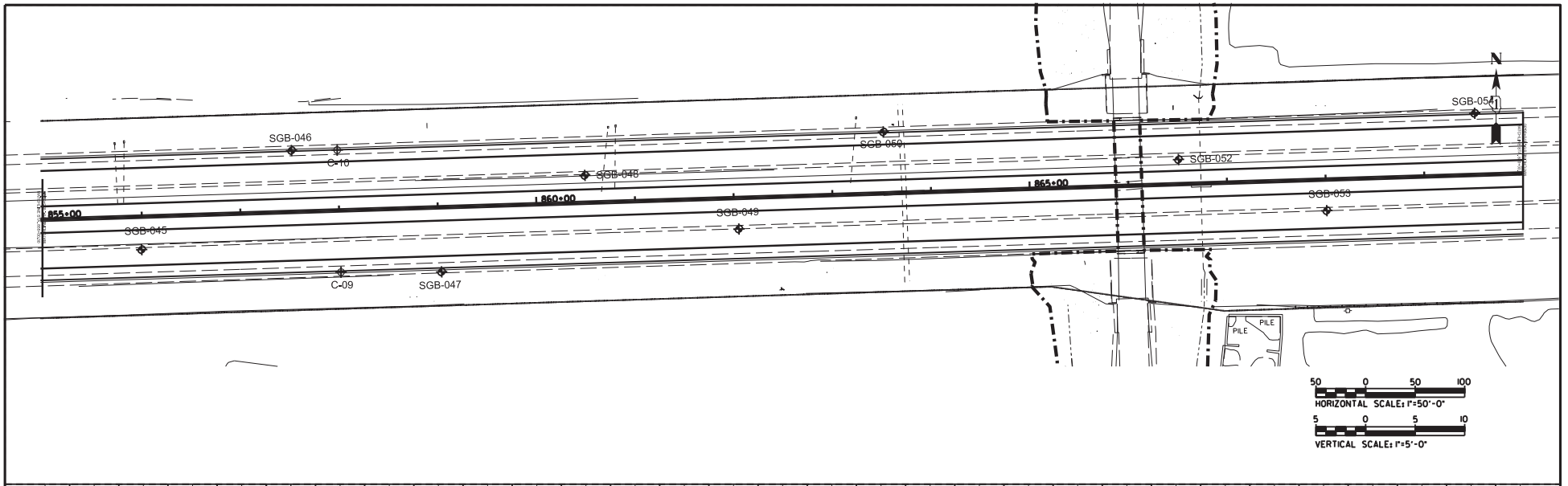
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED ·	REVISED ·
Geo Services, Inc.		CHECKED ·	REVISED ·
	PLOT SCALE = $SCALE$	DRAWN ·	REVISED ·
	PLOT DATE = $DATE$	CHECKED ·	REVISED ·

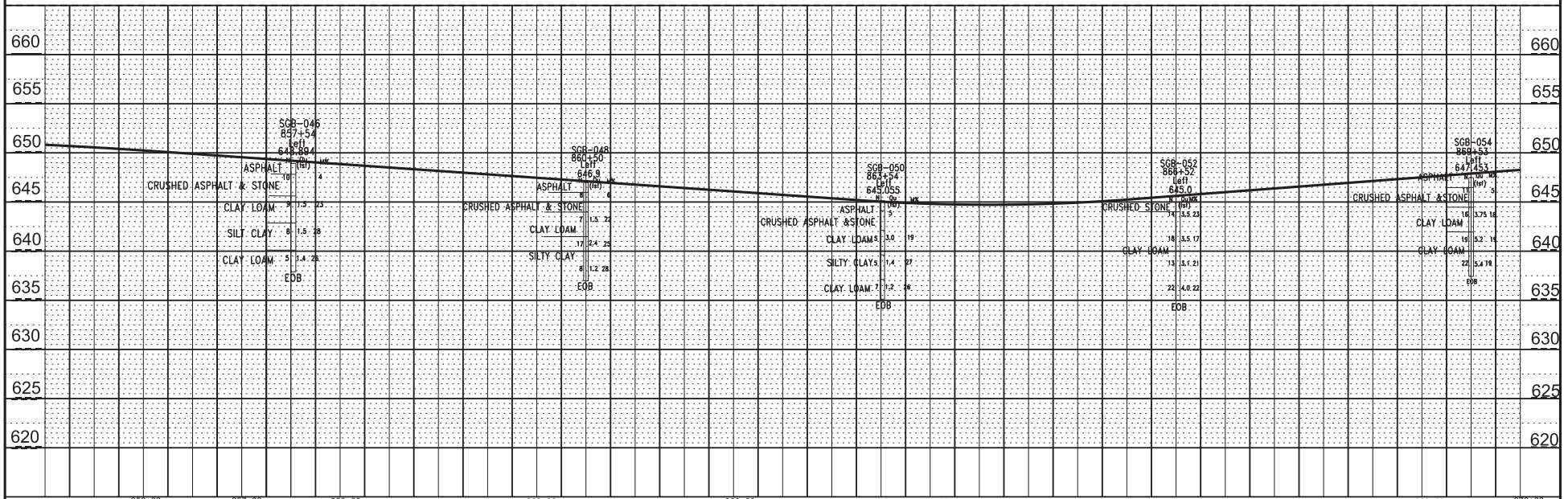
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 18 OF 23 | STA. 840+00 TO STA. 855+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	18
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED | DRAWN | CHECKED | NOTE BOOK | NO. | BY | DATE

PROFILE — SURVEYED | DRAWN | CHECKED | NOTE BOOK | NO. | BY | DATE

FILE NAME = $FILE$ — Geo Services, Inc.

USER NAME = $USER$	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = $SCALE$	DRAWN -	REVISED -	
PLOT DATE = $DATE$	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

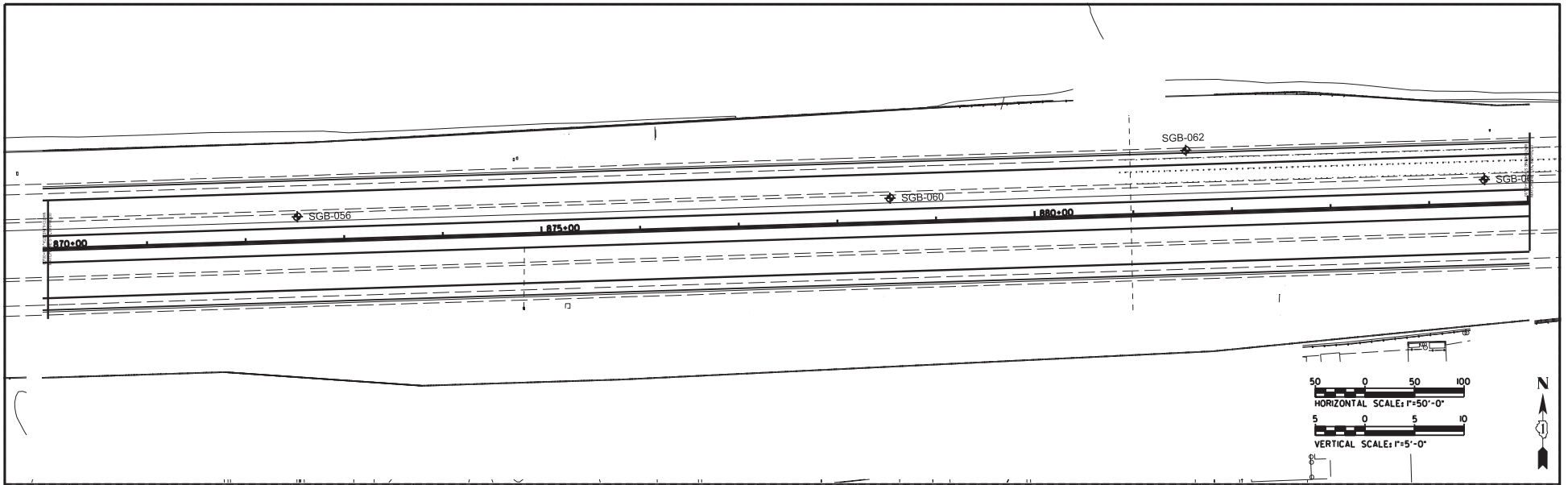
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

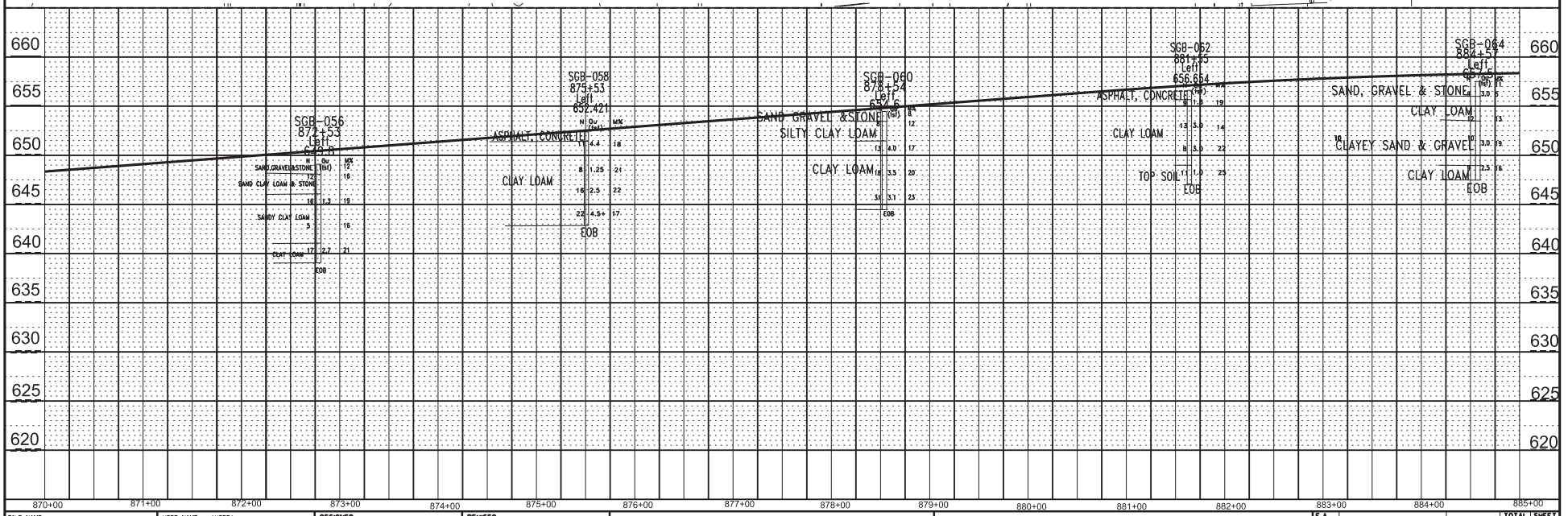
SCALE: | SHEET 19 OF 23 | STA. 855+00 TO STA. 870+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	19

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT





PLAN
SURVEYED BY
DRAWN BY
ALIGNMENT CHECKED BY
CADD FILE NAME
NOTE BOOK NO.
DATE BY

PROFILE
SURVEYED BY
DRAWN BY
GRADES CHECKED BY
ELEVATIONS NOTATIONS CKHD
NOTE BOOK NO.
DATE BY

FILE NAME = $FILE1$
Geo Services, Inc.

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

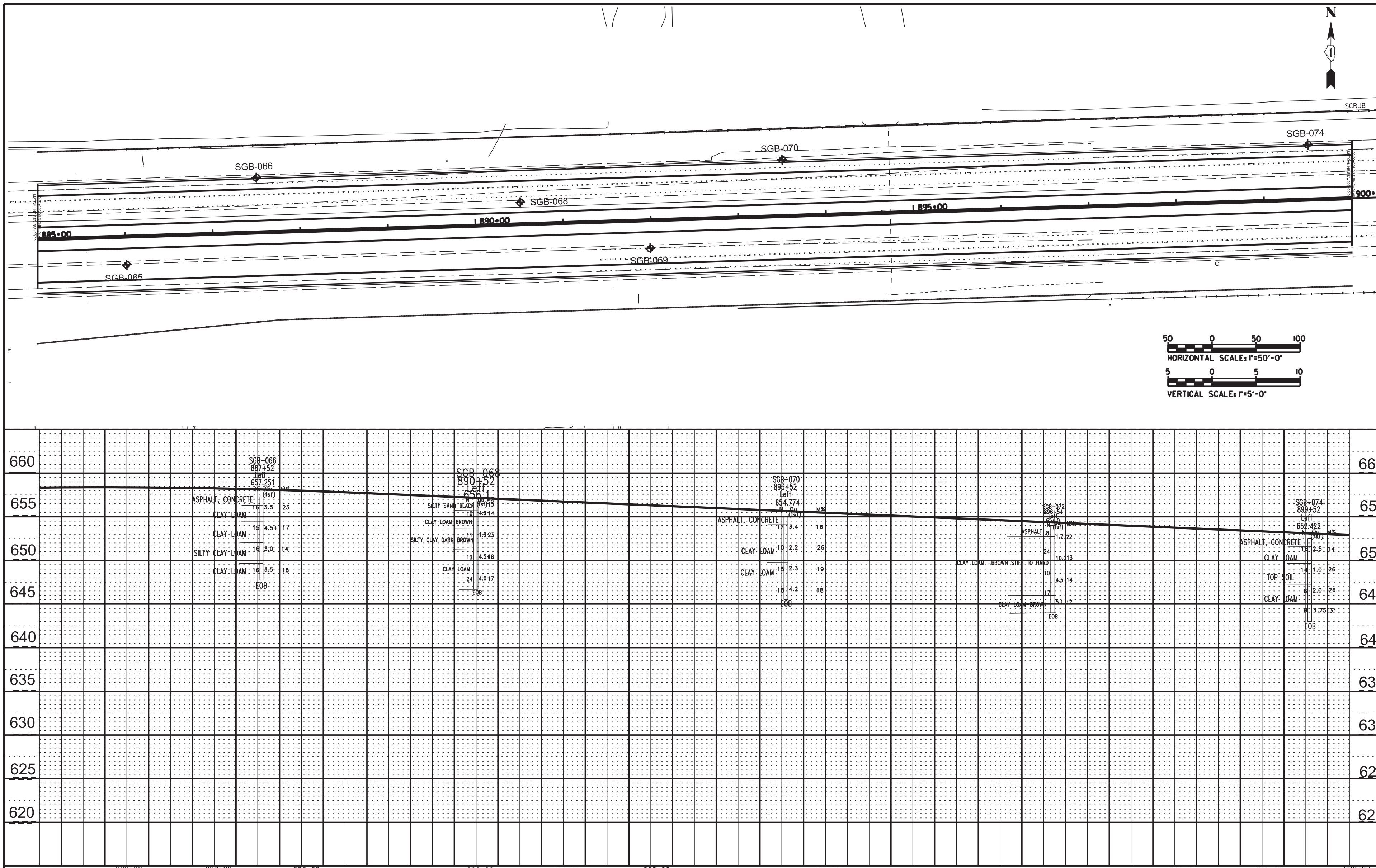
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 20 OF 23 | STA. 870+00 TO STA. 885+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	20

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



FILE NAME = $FILEL$ Geo Services, Inc. Geotechnical, Environmental and Civil Engineering	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -	
	PLOT DATE = $DATE$	CHECKED -	REVISED -	

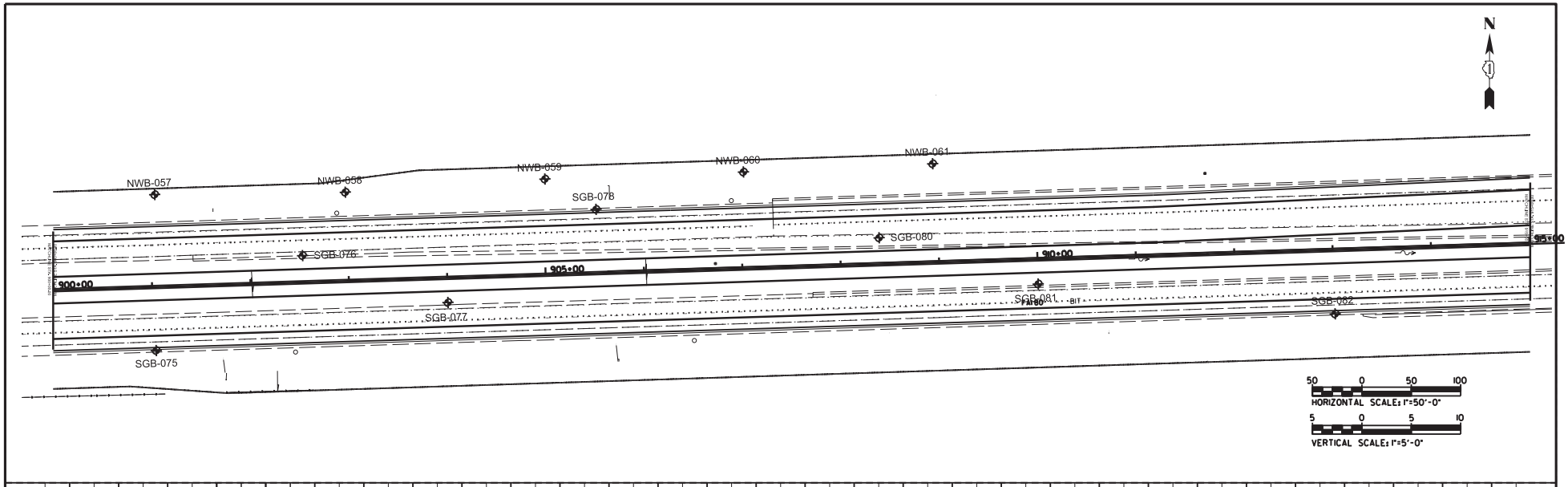
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 21 OF 23 | STA. 885+00 TO STA. 900+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	21

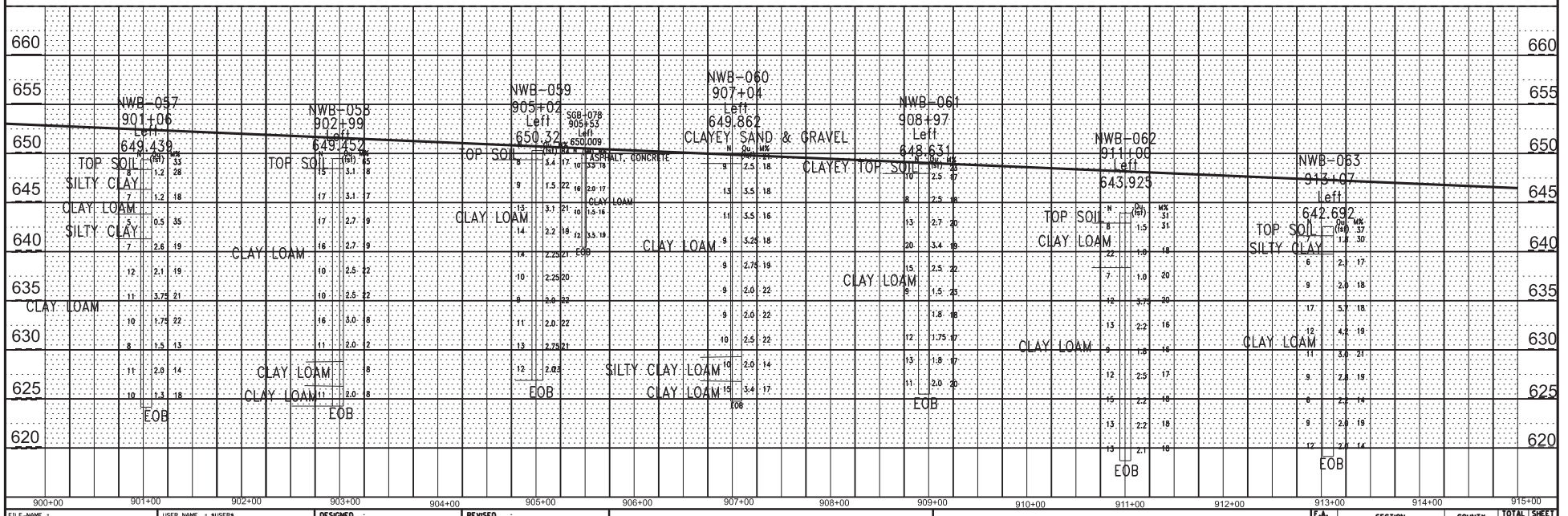
CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / GRADES CHECKED / PLOT FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / STRUCTURE NO(S)/TMS CHKD / NOTE BOOK NO. / BY / DATE



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
Geo Services, Inc.		CHECKED -	REVISED -
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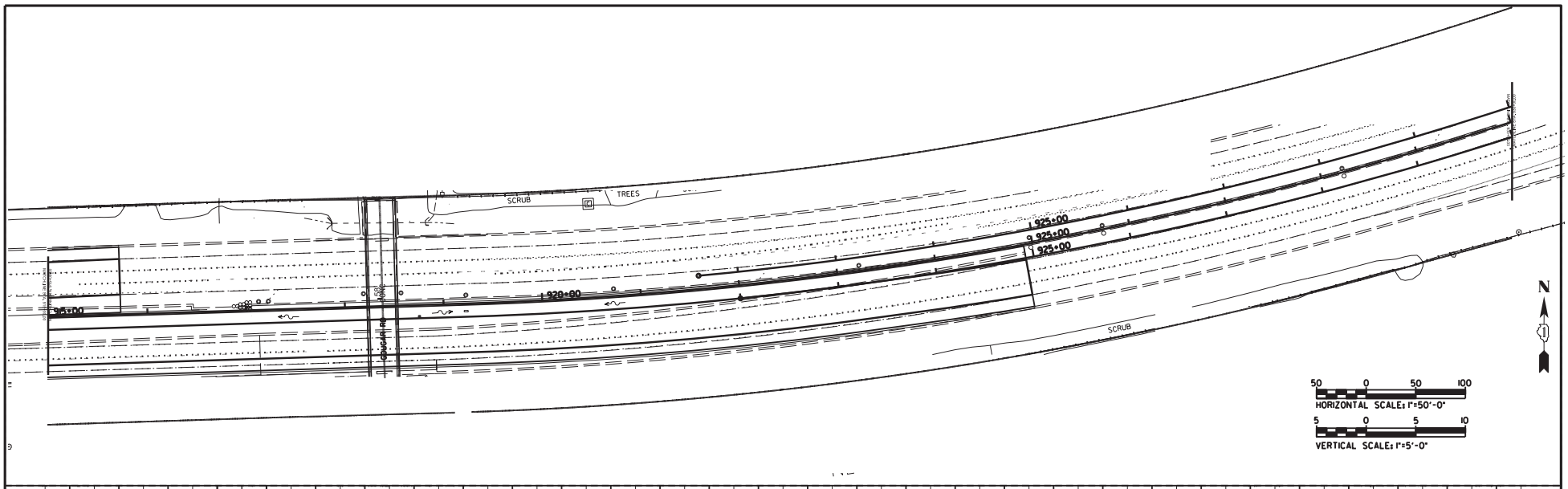
	PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 22 OF 23 | STA. 900+00 TO STA. 915+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	22
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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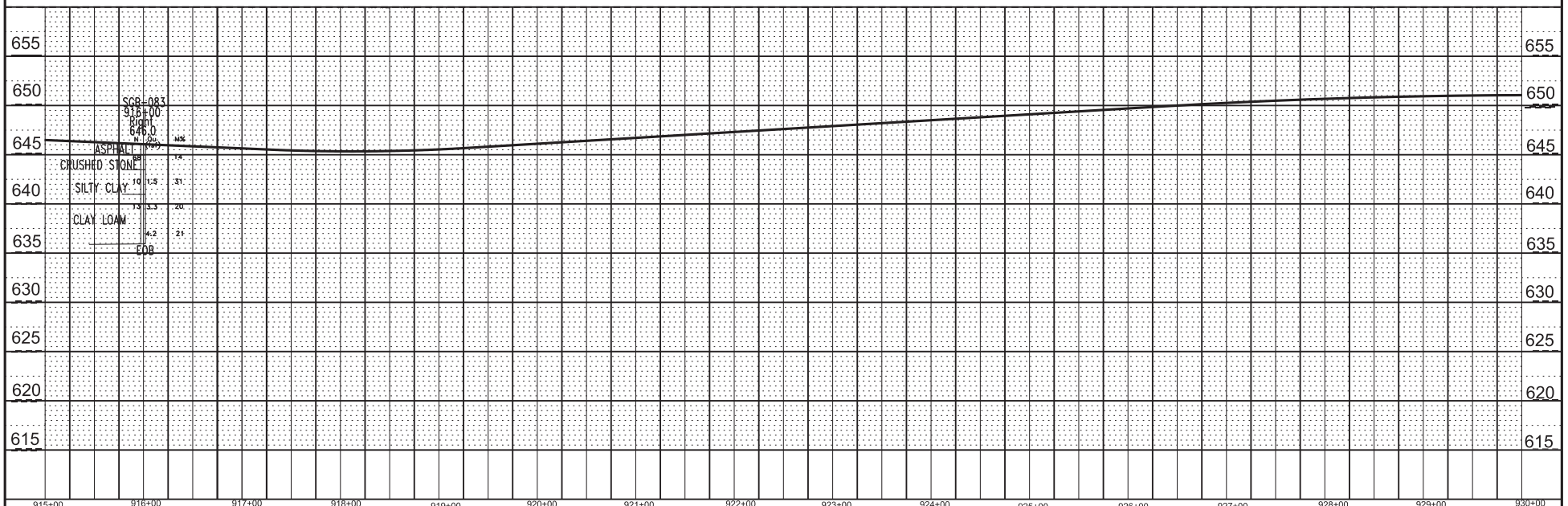
SURVEYED ____ DATE
PLOTTED ____ BY
ALIGNMENT CHECKED ____
GRADES CHECKED ____
STRUCTURE NOTATNS CHKD ____
NOTE BOOK ____
NO. ____
CADD FILE NAME ____

PROFILE
SURVEYED ____ DATE
PLOTTED ____ BY
GRADES CHECKED ____
STRUCTURE NOTATNS CHKD ____
NOTE BOOK ____
NO. ____



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
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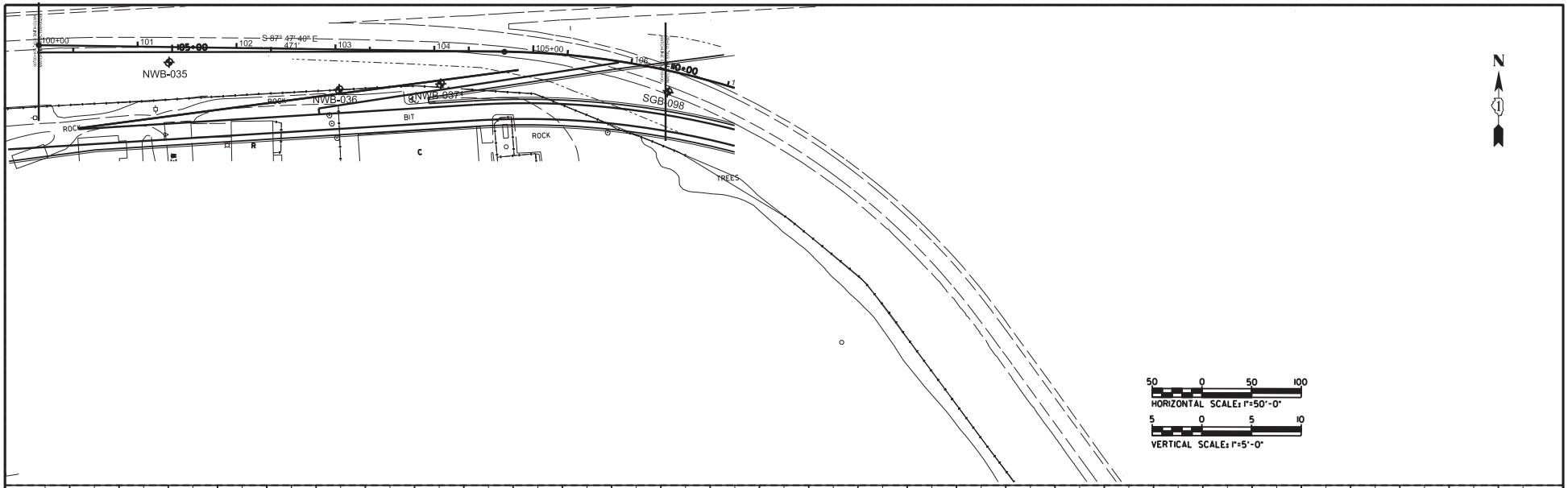
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

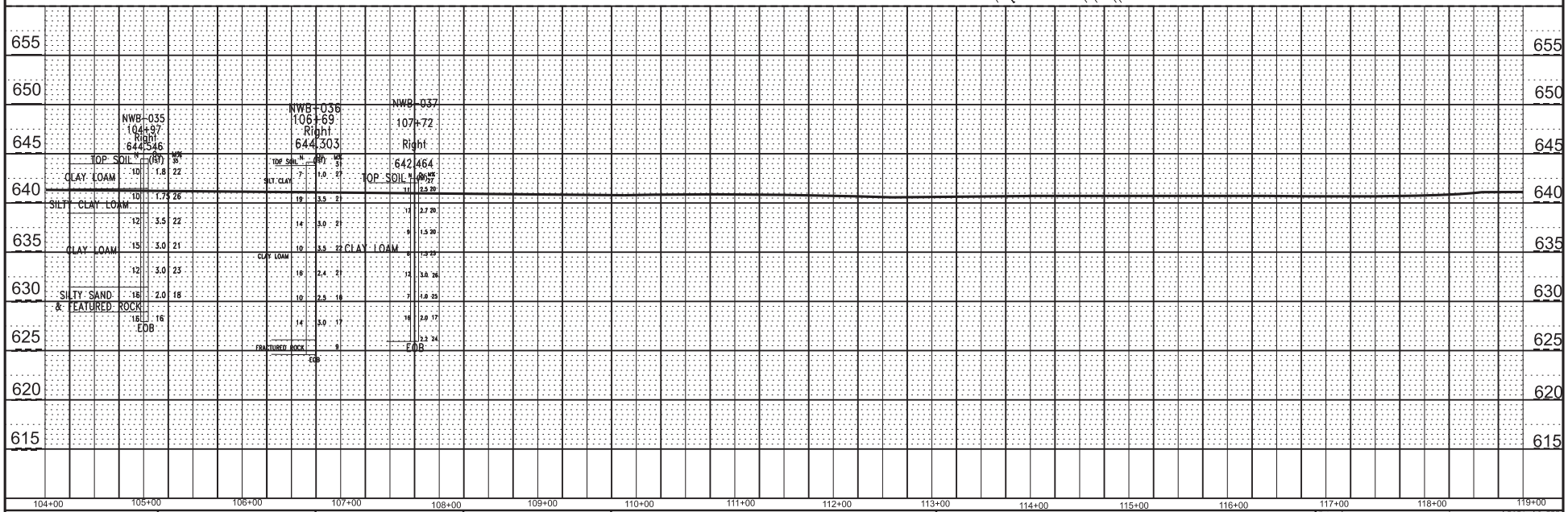
SCALE: | SHEET 23 OF 23 | STA. 915+00 TO STA. 930+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			23	23
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE



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PLOT DATE = $DATE$

Geo Services, Inc.

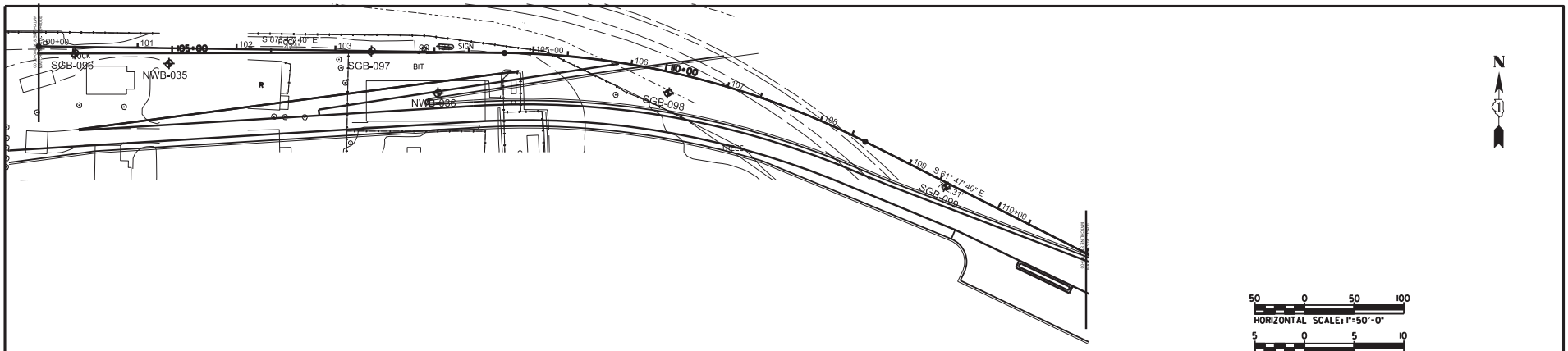
DESIGNED -		REVISED -
CHECKED -		REVISED -
DRAWN -		REVISED -
CHECKED -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

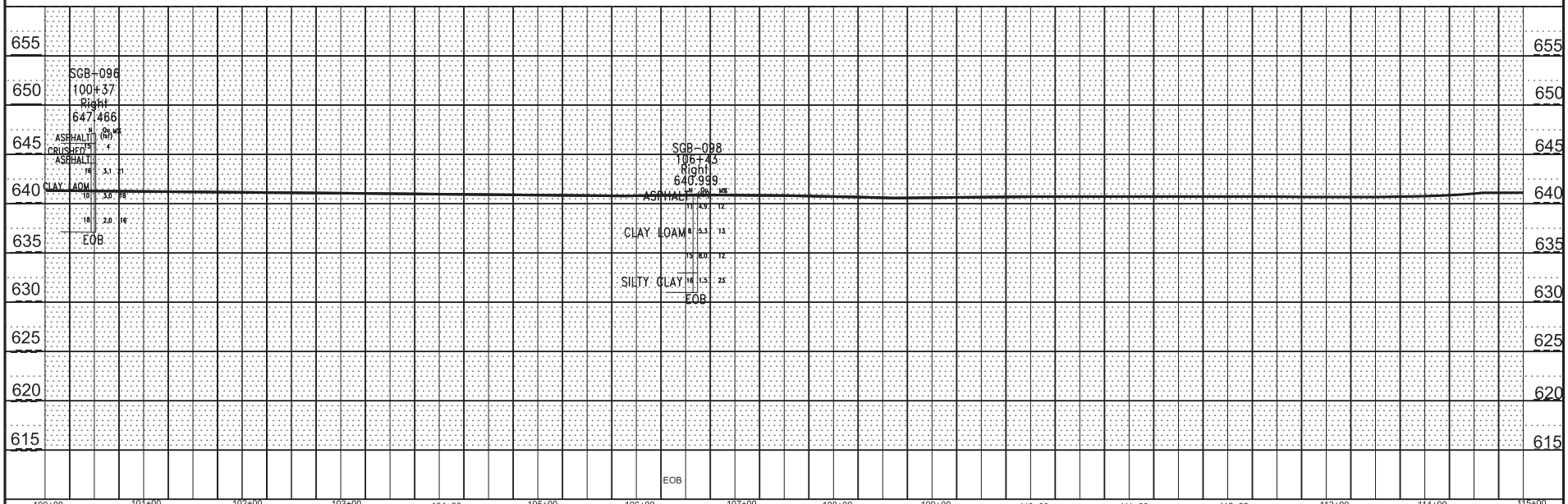
SCALE: ##+00 | SHEET 24+00 OF 28+00 | STA. 104+00 TO STA. 110+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	##+00	##+00		24
		CONTRACT NO. ##+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.



Geo Services, Inc.

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -
		CHECKED -
	PLOT SCALE = $SCALE$	DRAWN -
	PLOT DATE = $DATE$	CHECKED -

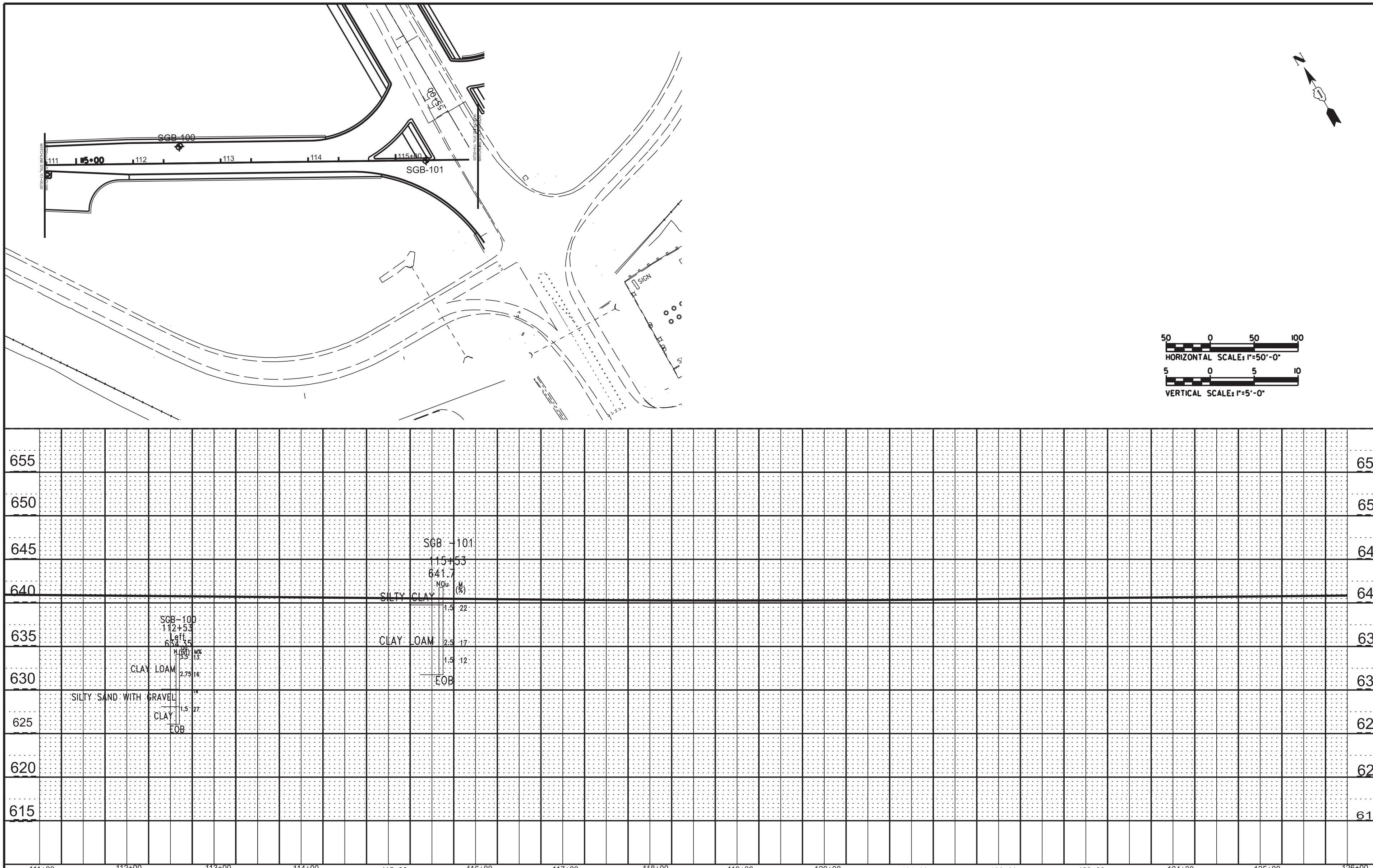
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: ##+00 | SHEET 24+00 OF 28+00 | STA. 100+00 TO STA. 115+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	##+00	##+00	-	24
		CONTRACT NO. ##+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHK'D / NOTE BOOK / NO. / BY / DATE

FILE NAME = $FILE$

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

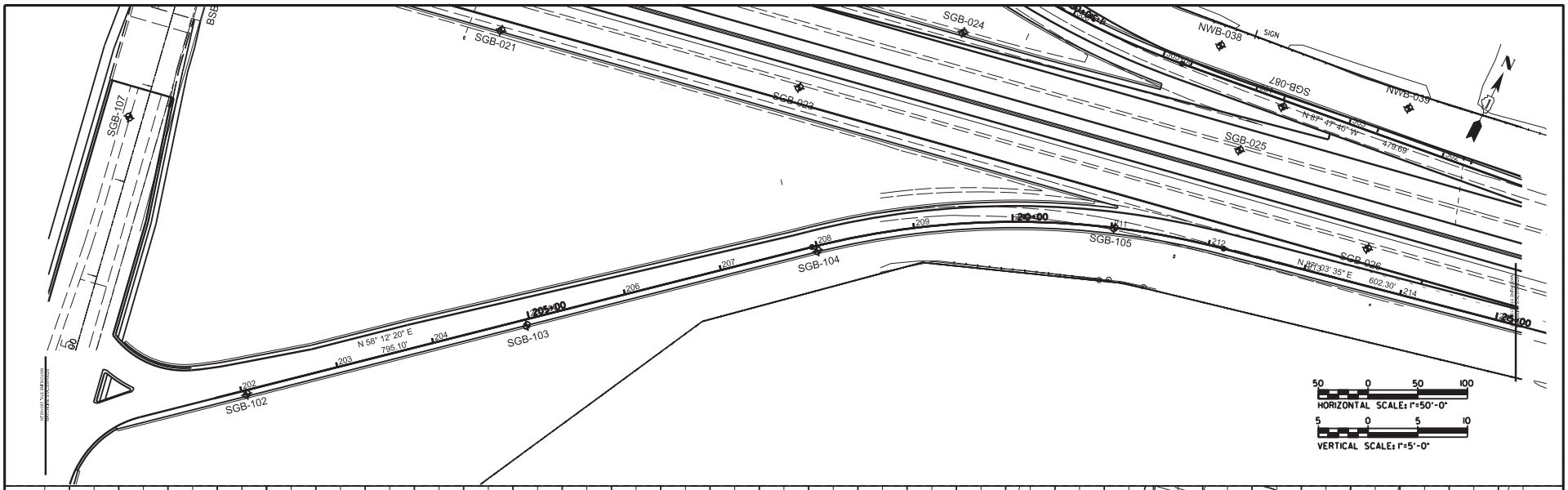
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: ##+00 SHEET 25 OF ##+00 STA. 111+00 TO STA. 116+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	##+00	##+00	##+00	25

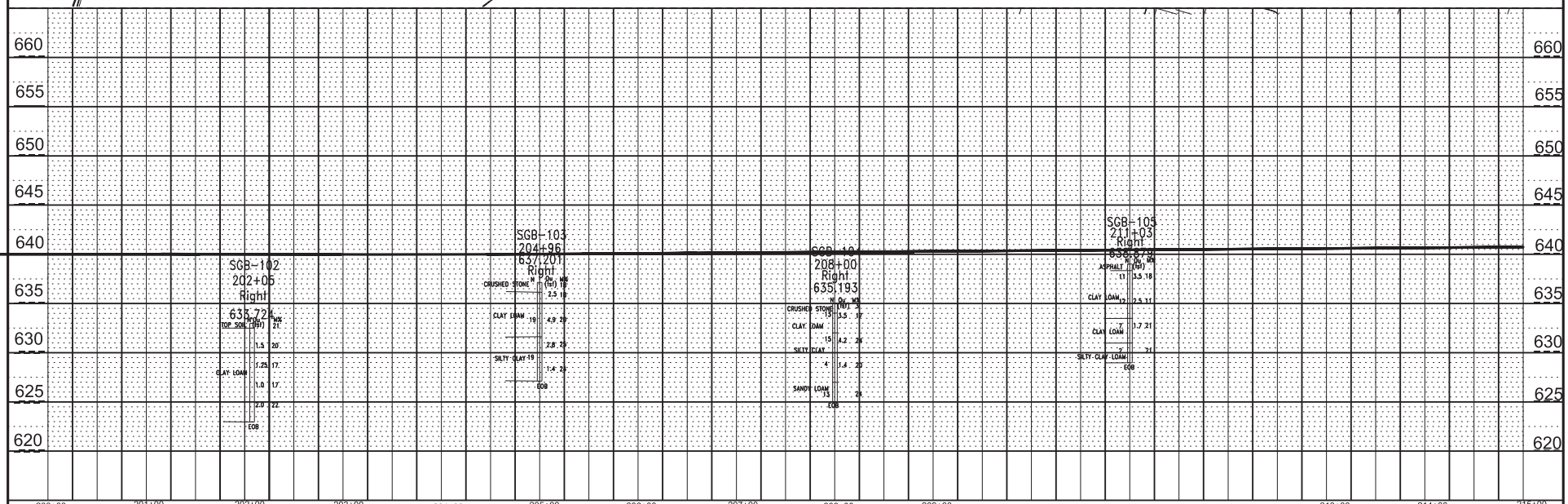
CONTRACT NO. ##+00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



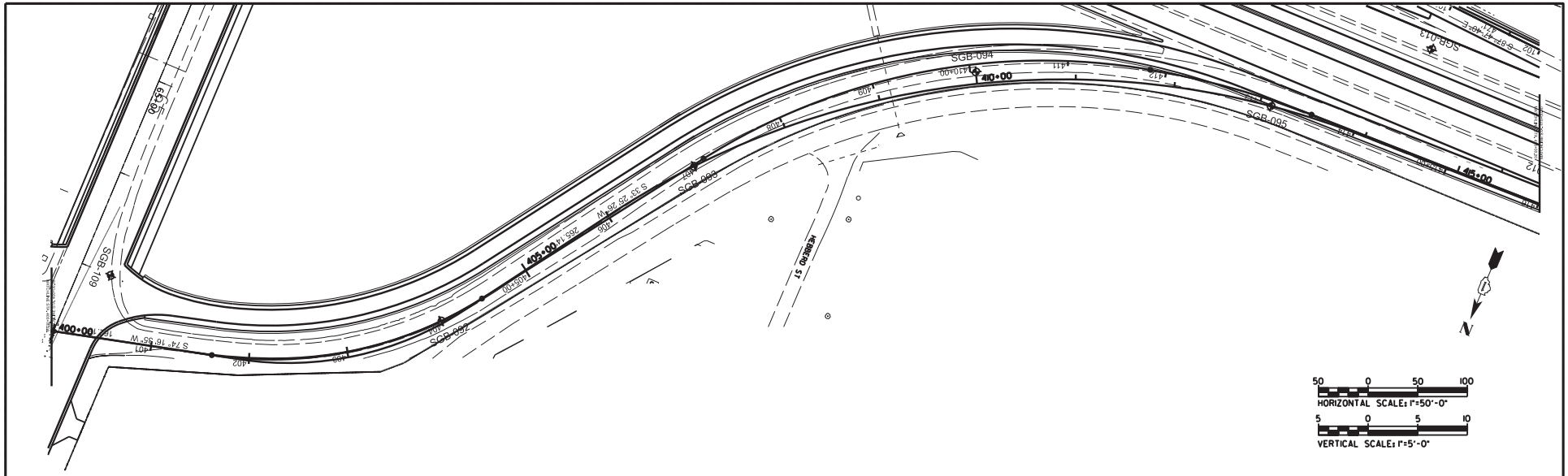
PLAN
SURVEYED
DRAWN
CHECKED
QUANTITY CHECKED
FIELD BOOK
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
DRAWN
CHECKED
QUANTITY CHECKED
FIELD BOOK
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE



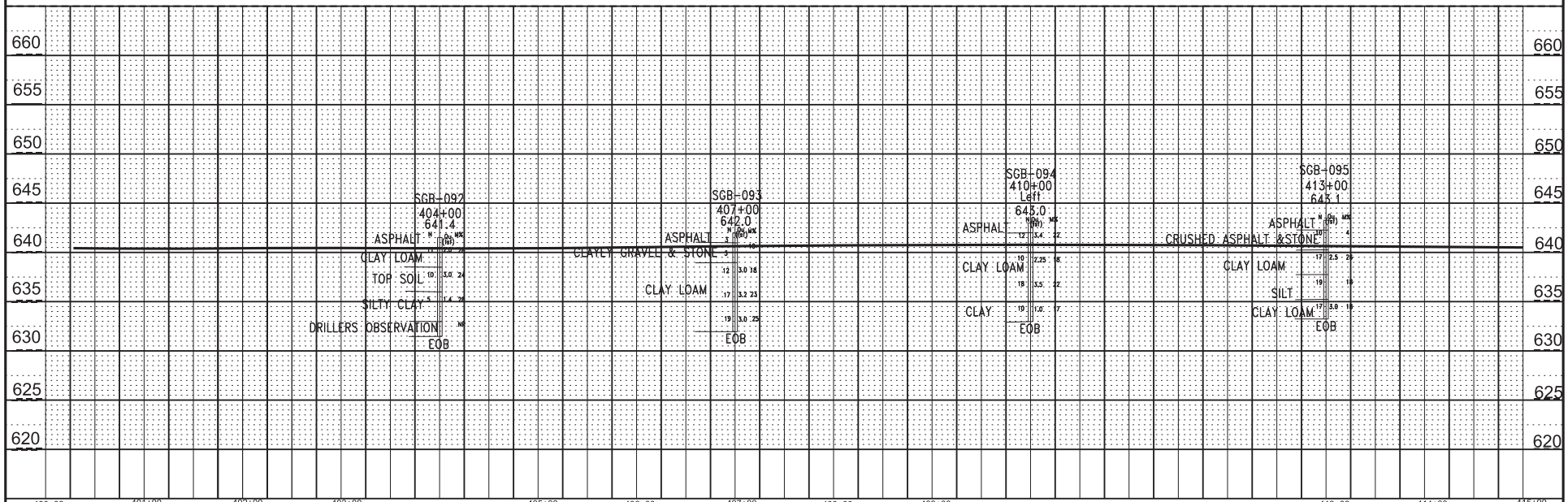
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN PLAN AND PROFILE
Geo Services, Inc.		CHECKED -	REVISED -		SCALE: ##+00 SHEET 26 OF STA. 200+00 TO STA. 215+00
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -		
	PLOT DATE = $DATE$	CHECKED -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	##+00	##+00	##+00	26
CONTRACT NO. ##+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN — SURVEYED / PLOTTED / GRADES CHECKED / ALIGNMENT CHECKED / NOTE BOOK / NO. / CADD FILE NAME / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK / NO. / STRUCTURE NOTATIONS CADD / BY / DATE



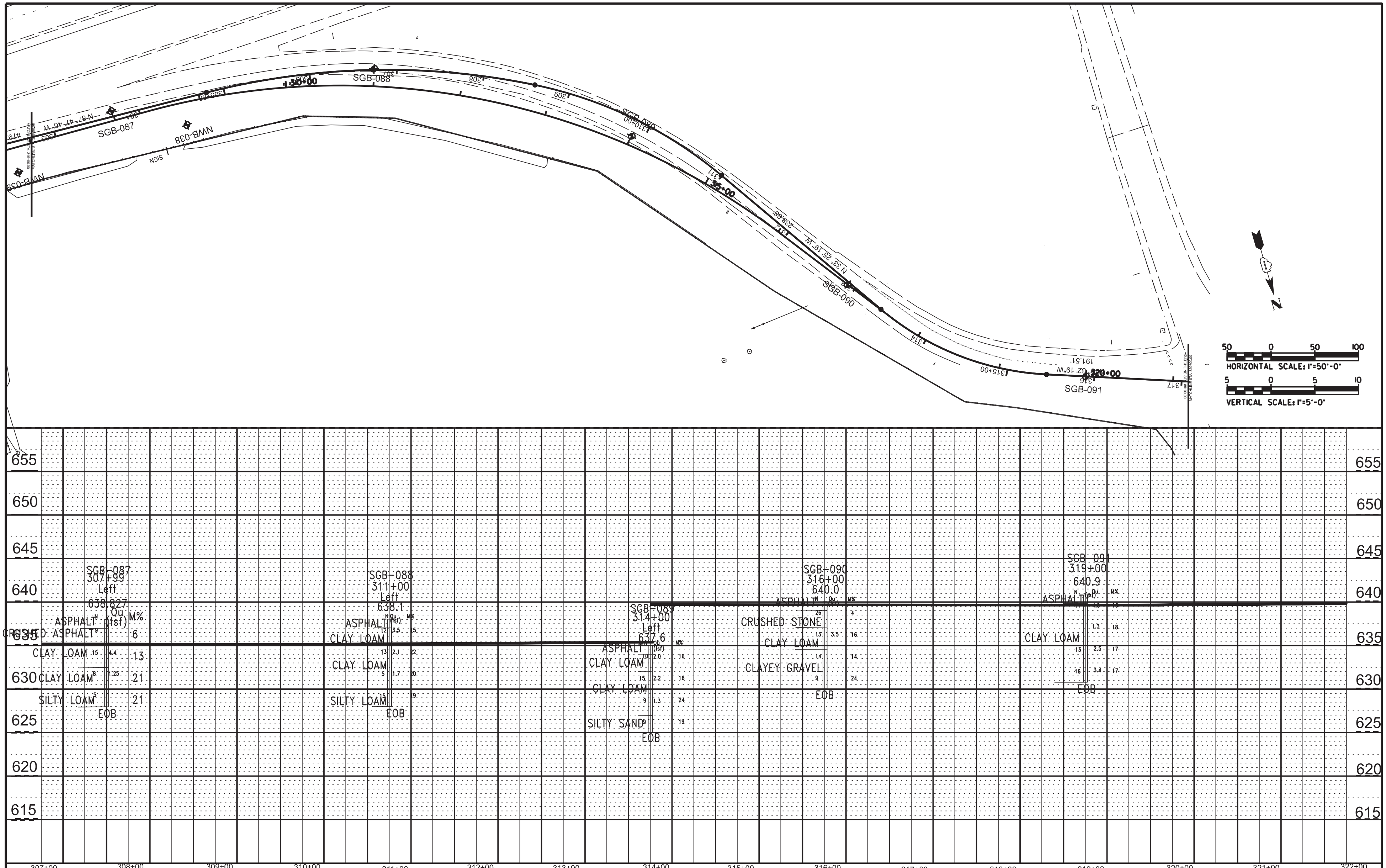
FILE NAME = $FILE$ — Geo Services, Inc.	USER NAME = $USER$	DESIGNED ·	REVISED ·
		CHECKED ·	REVISED ·
	PLOT SCALE = $SCALE$	DRAWN ·	REVISED ·
	PLOT DATE = $DATE$	CHECKED ·	REVISED ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: ##+00 | SHEET 27+00 OF | STA. 400+00 TO STA. 415+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	##+00	##+00	##+00	27
		CONTRACT NO. ##+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME; NOTE BOOK NO.; BY; DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHK'D; NOTE BOOK NO.; BY; DATE

FILE NAME = $FILE$ Geo Services, Inc. Geotechnical, Environmental and Civil Engineering	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -				##+00	##+00	##+00	28
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -					CONTRACT NO. ##+00		
	PLOT DATE = $DATE$	CHECKED -	REVISED -		SCALE: ##+00 SHEET 28+00 OF 28+00 STA. 316+00 TO STA. 322+00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

APPENDIX D

SOIL BORING/CORE LOGS

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

SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765542.465, **Easting** 1055645.475

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-001
Station 115+85
Offset 32.9 ft Left
Ground Surface Elev. 535.09 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY TOPSOIL-brown & black	534.09				28
CRUSHED STONE-very dense			6		
			21		4
			50/4"		
	532.09				
FRACTURED ROCK-very dense	531.09		50/1"		2
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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

SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765493.879, **Easting** 1055868.984

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-002 **Station** 112+14 **Offset** 31 ft Left **Ground Surface Elev.** 541.64 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SANDY TOPSOIL-black
540.64			32	
	50/1"			CLAY LOAM-brown spotted black-stiff (Fill)
		1.25 P	18	
538.64				
	50/3"			CRUSHED STONE-very dense
-5			2	
	5			
	50/2"		25	
	21			
	50/1"		12	
-10				
	18			
	50/2"		10	
	50/3"			
-15			7	
525.64				
	50/1"		7	Auger Refusal @ -16.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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

SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765421.208, **Easting** 1056372.897

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-003
Station 107+28
Offset 13.7 ft Left
Ground Surface Elev. 563.66 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
562.66				29
SILTY CLAY-dark brown & black-medium dense (Fill)		2		
		4		25
		6		
560.66				
FRACTURED ROCK-very dense		50/4"		
				5
	-5			
558.16				
Borehole continued with rock coring.				
	-10			
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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

SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765421.961, **Easting** 1056580.857

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-004
Station 105+36
Offset 19 ft Left
Ground Surface Elev. 564.82 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				40
563.32		2		
SILTY CLAY-dark brown & black-stiff (Fill)		6 5	1.00 P	25
560.82		26		
FRACTURED ROCK-very dense		50/1"		7
559.82	-5			
Drillers Observation: Apparent Bedrock 558.82				
Borehole continued with rock coring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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

SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765425.304, **Easting** 1056771.242

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-005
Station 103+26
Offset 26.5 ft Left
Ground Surface Elev. 565.72 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				33
564.22		3		
SILTY CLAY-dark brown spotted black-stiff (Fill)		4 3	1.75 P	19
		2		
561.22		2		27
FRACTURED ROCK-very dense	-5	50/4"		
559.72				
Borehole continued with rock coring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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

SOIL BORING LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765432.783, **Easting** 1056946.97

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-006 **Station** 101+02 **Offset** 37.9 ft Left **Ground Surface Elev.** 566.38 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
				50
564.88		3		
SILTY CLAY-black-stiff (Fill)		8 4	1.00 P	17
becoming dark brown & -3.0'		2		
		3 5	1.00 P	23
	-5			
560.88				
SAND & GRAVEL-brown-medium dense to very dense		5		
		8 14		9
557.38		50/5"		
Borehole continued with rock coring.	-10			
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765435.955, **Easting** 1057100.937

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-007 **Station** 746+17 **Offset** 91.9 ft Left **Ground Surface Elev.** 569.42 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** n/a ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
				25
567.92		3		
SILTY CLAY-dark brown-very stiff (Fill)		4 6	2.50 P	21
566.42				
SAND & GRAVEL-brown-medium dense to dense		6		
		7		6
	-5	10		
		7		
		14		5
		17		
		2		
		4		6
	-10	11		
558.42				
Borehole continued with rock coring.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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Date 2/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765441.336, **Easting** 1057390.7

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-008 **Station** 749+07 **Offset** 88.1 ft Left **Ground Surface Elev.** 571.56 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL with Stone-black-medium dense (Fill)				31
		3		
		4 6		24
	568.56			
SAND, GRAVEL & STONE-brown-medium dense (Fill)		6		
		7 9		4
	-5			
	566.06			
SILTY CLAY LOAM-brown-very stiff (Fill)		6		
		8 9	2.75 P	12
	563.56			
SILTY CLAY with Stone-dark brown & black (Fill)	562.56	50/5"		
Drillers Observation: Apparent Bedrock	562.06			13
	-10			
Borehole continued with rock coring.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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Date 2/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1057583.5, **Easting** 1765457

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-009 **Station** 751+00 **Offset** 97.7 ft Left **Ground Surface Elev.** 577.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
TOPSOIL with Stone-black-very loose (Fill)			9	
	3			
	2 1		25	
574.90				
GRAVEL & STONE-brown-very loose (Fill)	4			
	6 7		8	
-5 572.40				
SILTY CLAY LOAM-brown-very stiff (Fill)	4			
570.90	50/4"	2.75 P	13	
Drillers Observation: Weathered/Fractured Rock 569.90				
Borehole continued with rock coring.				
-10				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765483.551, **Easting** 1057790.284

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-010
Station 753+08
Offset 117.7 ft Left
Ground Surface Elev. 571.58 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
				22
570.08		3		
SILTY CLAY-dark brown & black-stiff (Fill)		4 3	1.00 P	24
		4		
	-5	9 15		5
565.58				
FRACTURED ROCK-very dense		50/1"		
564.58				10
Borehole continued with rock coring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY**

SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765500.579, **Easting** 1057988.341

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-011
Station 755+03
Offset 129.8 ft Left
Ground Surface Elev. 568.21 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT/GRAVEL 567.21				
SILTY CLAY with gravel-brown-grey-stiff(CL) 564.71				
SANDY CLAY LOAM-brown,grey-Hard 562.21	-5			
CLAYEY SAND &GRAVEL -brown ,grey-Hard 559.71				
CRUSHED STONE with sand -grey 557.21	-10			
LIMESTONE with sand -gray 553.21	-15			
End Of Boring @ -15.0'. Boring backfilled with cuttings.	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/4/22

FAI Route 80 from 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, 3rd **PM**, **Northing** 1764691.5, **Easting** 1055609.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-012
Station 53+16
Offset 42 ft Right
Ground Surface Elev. 556.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT				
555.17				
CRUSHED STONE-medium dense		8		
		8 5		4
553.00				
Drillers Observation: Apparent Bedrock				
551.50				
Borehole continued with rock coring.	-5			
	-10			
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/4/22

FAI Route 80 from 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, 3rd **PM**,
Northing 1764890.1, **Easting** 1055651.9

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-013
Station 11+00
Offset 2 ft Right
Ground Surface Elev. 549.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT 548.17				
CLAY LOAM-brown-very stiff (Fill)		21		
		3 5		18
545.50				
Drillers Observation: Fractured/Weathered Rock		50/0"		NR
544.00	-5			
Drillers Observation: Apparent Bedrock 543.00				
Borehole continued with rock coring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/8/22

FAI Route 80 from 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, 3rd **PM**, **Northing** 1764993.7, **Easting** 1055822.9

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-014 **Station** 12+99 **Offset** 11.7 ft Left **Ground Surface Elev.** 553.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 547.7 ft ▼
Upon Completion n/a ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" ASPHALT				
552.53				
CRUSHED ASPHALT-very dense		50/5"		
				3
550.70				
CRUSHED STONE-medium dense		12		
		17		8
	-5	8		
▼		5		
546.70		50/0"		2
Borehole continued with rock coring.				
	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/8/22

FAI Route 80 from 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, 3rd **PM**, **Northing** 1765109.6, **Easting** 1055986.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-015 **Station** 15+00 **Offset** 11.2 ft Right **Ground Surface Elev.** 555.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
16.0" ASPHALT				
554.37	35			
CRUSHED ASPHALT-very dense	50/4"		3	
552.70				
Drillers Observation: Apparent Bedrock				
551.70	50/0"		NR	
Borehole continued with rock coring.				
-5				
-10				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/15/22

FAI Route 80 from 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, 3rd **PM**, **Northing** 1765208, **Easting** 1056158.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-016
Station 17+00
Offset 2.1 ft Left
Ground Surface Elev. 558.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT	557.68				
CRUSHED STONE-medium dense			16		
			16		4
			12		
	555.60				
Drillers Observation: Apparent Bedrock	554.60		50/1"		
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/15/22

FAI Route 80 from 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, 3rd **PM**, **Northing** 1765240.1, **Easting** 1056356.1

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-017
Station 19+00
Offset 4.5 ft Left
Ground Surface Elev. 560.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT	559.88				
CRUSHED ASPHALT-medium dense			25		
			12		4
			9		
	557.80				
Drillers Observation: Apparent Bedrock	557.30				
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/24/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765217.686, **Easting** 1059094.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-018A
Station 766+22
Offset 60.7 ft Right
Ground Surface Elev. 624.64 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 619.636 ft ▼
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				10.0" ASPHALT
				623.80
	6			CRUSHED STONE-loose
	6 3		5	
				621.64
	3			CLAY LOAM-brown, gray & black-stiff to very stiff (Fill)
	4 3	1.20 B	23	
▼ -5				
	3			
	10 10	3.75 P	23	
	4			
	4 7	1.50 P	26	
-10				
	3			
	2 2	1.30 B	22	
	3			
	9 9	3.80 B	24	
-15				
	3			
	6 7	2.00 P	19	
	4			
	6 9	1.50 P	19	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown, gray & black-stiff to very stiff (Fill) *(continued)*
	12			
	10 12	2.10 B	21	
	6			
	8 10	2.20 B	22	
599.64 -25				
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 4/4/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** RT

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing , **Easting**

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. NWB-019
Station
Offset ft Right
Ground Surface Elev. ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black		AS		38
CLAY LOAM-brown-hard		AS		
			4.50 P	15
		AS		
			4.50 P	19
		AS		
	-5		4.00 P	20
		AS		
			4.25 P	21
Auger Refusal @ -8.0'. End Of Boring.				
	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/24/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765188.349, **Easting** 1059276.34

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-019A
Station 768+06
Offset 63.9 ft Right
Ground Surface Elev. 628.55 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" ASPHALT
627.55				
	12			CLAY LOAM-brown-very dense (Possible Fill)
	8 4	3.50 P	18	
	6			
-5	7 6	3.50 B	17	
	6			
	8 8	3.30 B	16	
	7			
-10	9 13	3.40 B	16	
				becoming gray @ -10.5'
	6			
	9 11	2.90 B	15	
	5			
-15	9 8	2.20 B	15	
	7			
	4 9	3.00 P	15	
	6			
-20	11 13	2.50 P	17	
608.05				SAND-brown-medium dense
	7			
	4 6		9	
	6			
603.55 -25	6 7		9	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 4/4/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** RT

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing , **Easting**

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. NWB-020
Station
Offset ft Right
Ground Surface Elev. 0.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black -0.50		AS		35
CLAY LOAM-brown-hard		AS		
			4.00 P	19
		AS		
			3.50 P	20
		AS		
	-5		3.50 P	21
		AS		
			4.50 P	20
-8.00				
Auger Refusal @ -8.0'. End Of Boring.				
	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/25/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765165.183, **Easting** 1059474.248

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-020A
Station 770+03
Offset 63.7 ft Right
Ground Surface Elev. 631.64 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" ASPHALT 631.14
				CLAY LOAM-brown & gray-stiff to hard
	4			
	9 9	4.50 P	12	
	2			
-5	3 2	1.20 B	19	
	5			
	8 9	2.50 B	19	
	4			
-10	7 5	1.80 B	18	
	4			
	6 8	2.20 B	21	
	5			
-15	8 11	2.80 B	18	
	5			
	8 9	3.00 P	16	
	4			
-20	5 10	2.50 P	17	
				611.14
	12			SANDY LOAM-brown-medium dense
	8 12		16	
				608.64
	5			SAND-brown-medium dense
-25	4 6		7	606.64
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing , **Easting**

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-021
Station
Offset ft
Ground Surface Elev. ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black		HA		
				23
CLAY LOAM-brown-stiff to very stiff		HA		
			1.00	27
		HA	P	
			1.00 P	25
		HA		
	-5		2.50 P	27
	▼	HA		
			2.75 P	23
		HA		
			2.50 P	18
Auger Refusal @ -9.5'. End Of Boring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765148.842, **Easting** 1059666.081

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-021A
Station 771+93
Offset 63.9 ft Right
Ground Surface Elev. 633.85 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 632.85			
CLAY LOAM-brown-very stiff to hard	9		
	8 8	5.90 B	16
	5		
-5	4 7	2.70 B	19
	6		
	5 5	3.00 B	22
	4		
-10	4 6	3.10 B	22
	2		
	4 4	3.60 B	24
	6		
-15	9 9	5.30 B	17
	4		
	8 10	2.75 P	18
	4		
-20	7 8	4.90 B	20
CLAY LOAM-brown-very stiff to hard *(continued)*			
	3		
	5 6	2.50 B	17
	6		
608.85 -25	10 7	3.10 B	18
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing , **Easting**

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-022
Station
Offset ft
Ground Surface Elev. ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" TOPSOIL-black	HA		
			23
CLAY LOAM-brown & gray-stiff (Fill)	HA		
		1.50 P	23
CLAY LOAM-brown-stiff to hard	HA		
		1.25 P	25
	HA		
-5		2.00 P	24
	HA		
		1.50 P	19
	HA		
		3.50 P	19
-10	HA		
		4.50 P	20
Auger Refusal @ -11.0'. End Of Boring.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765136.923, **Easting** 1059878.746

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-022A
Station 774+04
Offset 65.4 ft Right
Ground Surface Elev. 635.57 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 614.574 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" ASPHALT
				634.57
	4			CLAY LOAM-brown, gray & spotted black-very stiff to hard (Fill)
	4 5	4.20 B	18	
	3			
-5	3 4	3.30 B	20	
	4			
	6 9	3.50 B	24	
				627.57
	6			CLAY LOAM-brown-very stiff
-10	7 9	3.70 B	18	
	4			
	6 9	3.70 B	18	
	5			
-15	7 8	4.80 B	19	
	4			
	5 5	2.30 B	20	
	5			
-20	4 5	3.00 B	20	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				615.07
	2			SANDY LOAM-dark brown-loose ▼
	3 2		23	
				612.57
	5			CLAY LOAM-brown-very stiff
-25	7 9	2.70 B	21	
				610.57
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765123.92, **Easting** 1060089.567

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-023
Station
Offset ft
Ground Surface Elev. 636.23 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 630.227 ft ▼
Upon Completion ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" TOPSOIL-black	635.56		HA		
			HA		24
CLAY LOAM-brown-medium stiff to hard				0.75 P	27
			HA		
				1.00 P	25
			HA		
		-5		1.00 P	23
	▼		HA		
				4.50 P	19
			HA		
				3.50 P	18
	626.23	-10			
Auger Refusal @ -10.0'. End Of Boring.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765131.191, **Easting** 1060080.639

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-023A
Station 776+03
Offset 68.5 ft Right
Ground Surface Elev. 637.13 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" ASPHALT
				636.13
	22			CLAY LOAM with STONE-brown-hard (Fill)
	8 8	4.00 P	14	
				634.13
	4			CLAY LOAM-brown & gray-very stiff to hard
-5	6 8	5.40 B	17	
	3			
	5 6	2.00 P	24	
	4			
-10	4 4	1.20 B	25	
	4			
	8 9	3.75 P	23	
	7			
-15	12 12	5.60 B	17	
	7			
	8 13	3.20 B	17	
	4			
-20	5 9	2.00 P	18	
				CLAY LOAM-brown & gray-very stiff to hard *(continued)*
	5			
	6 10	2.75 P	17	
	7			
-25	10 12	4.60 B	21	
				612.13
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/16/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765127.549, **Easting** 1060293.859

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-024
Station
Offset ft
Ground Surface Elev. 637.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	HA		
636.40			28
CLAY LOAM-brown-stiff to hard	HA		
		1.50	25
	HA	P	
		1.75 P	26
	HA		
-5		3.25 P	16
	HA		
		4.50 P	16
629.40			
Auger Refusal @ -8.0'. End Of Boring.			
-10			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1060278.846, **Easting** 176135.13

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-024A
Station 778+00
Offset 68.7 ft Right
Ground Surface Elev. 638.69 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 623.692 ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				11.0" ASPHALT
637.78				
	35			CLAY LOAM with STONE-brown & black-very stiff (Fill)
	11	2.50	14	
	8	P		
635.69				
	4			CLAY LOAM-brown-stiff to very stiff (Fill)
	3	1.90	22	
-5	7	B		
	3			
	4	2.20	19	
	5	B		
	3			
	3	1.50	20	
-10	5	P		
	3			
	3	1.90	22	
	5	B		
625.69				
	3			SITLY CLAY-dark brown & gray-very stiff
	5	2.00	27	
▼ -15	7	P		
623.19				
	5			CLAY LOAM-brown-stiff to very stiff
	7	2.20	20	
	8	B		
	4			
	8	1.50	18	
-20	8	P		
	6			CLAY LOAM-brown-stiff to very stiff *(continued)*
	8	2.30	24	
	9	B		
	6			
	9	2.10	25	
613.69 -25	9	B		
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/16/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing , **Easting**

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-025
Station
Offset ft
Ground Surface Elev. ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black		HA		
				29
CLAY LOAM-brown & gray spotted black-stiff to very stiff (Fill)		HA		
			1.00	20
		HA	P	
			1.50 P	14
		HA		
	-5		2.50 P	18
		HA		
			1.00 P	33
Auger Refusal @ -7.5'. End Of Boring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/18/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765141.253, **Easting** 1060480.479

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-025A
Station 780+02
Offset 68.8 ft Right
Ground Surface Elev. 640.34 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
640.34 ASPHALT			
639.34 CLAY LOAM-brown & gray-very stiff to stiff (Apparent Fill)	4		
	4 4	3.80 B	18
	2		
-5	3 5	1.70 B	24
	4		
	5 5	1.70 B	18
	3		
-10	4 7	2.80 B	22
	2		
	3 4	3.00 B	19
	2		
-15	2 3	2.25 P	20
624.84 SILTY CLAY LOAM-brown & gray-stiff	7		
	12 10	1.25 P	18
	2		
-20	4 7	1.75 P	20
619.84 CLAY LOAM-gray-stiff to hard	6		
	9 13	3.90 B	20
	5		
615.34 -25	25 50/2"	4.60 B	22
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/16/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing , **Easting**

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-026
Station
Offset ft
Ground Surface Elev. ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
6.0" CINDERS-black	HA			
CLAY LOAM-brown-very stiff to hard	HA		55	
		2.75 P	24	
	HA			
		4.50 P	12	
	HA			
-5		4.50 P	14	
Auger Refusal @ -5.5'. End Of Boring.				
-10				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765147.173, **Easting** 1060679.935

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-026A
Station 782+01
Offset 69.2 ft Right
Ground Surface Elev. 641.84 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 625.84 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" ASPHALT 641.34
				CLAY LOAM-brown & gray spotted black-stiff to hard (Fill)
	3			
	6 4	3.40 B	12	
	6			
-5	6 6	6.10 B	18	
	2			
	5 5	1.50 B	25	
	2			
-10	3 3	1.40 B	20	
	2			
	4 3	1.00 P	27	
	3			
-15	3 2	1.00 P	28	
				626.34
				CLAY LOAM-brown-very stiff to hard ▼
	5			
	7 11	5.90 B	19	
	7			
-20	10 12	3.70 B	19	
				621.34
				SILTY SAND, GRAVEL & FRACTURED ROCK-brown-very dense
	25			
	50/2"		15	
	50/2"			
-25			14	616.84
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765125.06, **Easting** 1060880.564

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-027
Station 784+01
Offset 76.5 ft Right
Ground Surface Elev. 643.17 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
642.67				6.0" CLAYEY TOPSOIL-brown & black
			45	
	4			CLAY LOAM-brown & gray-very stiff
	5 5	3.00 P	18	
	5			
-5	8 11	3.10 B	16	
	6			
	7 10	2.00 P	16	
	8			becoming gray @ -8.0'
-10	10 12	3.50 B	22	
	5			
	6 6	2.75 P	18	
	5			
-15	2 9	2.00 P	17	
	6			
	10 12	3.10 B	20	
625.17				
				SILTY LOAM-brown-very dense
624.17	50/1"		12	
-20				Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				backfilled with cuttings.
-25				
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765152.567, **Easting** 1061085.365

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-028
Station 786+07
Offset 76.5 ft Right
Ground Surface Elev. 643.92 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 632.923 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material Description
643.42				6.0" TOPSOIL-black
			44	CLAY LOAM-brown & gray-very stiff
	3			
	4 5	3.50 P	18	
	7			
	4 5	3.40 B	16	
-5	6			
	12 12	3.00 P	17	
	6			becoming gray @ -8.0'
	6 11	2.75 P	23	
-10	8			▼
	8 10	2.75 P	19	
	4			
	6 7	2.00 P	19	
-15	4			
	6 9	2.00 P	22	
625.92				
	50/4"			SILTY CLAY LOAM-brown & gray-very stiff
624.42		2.00 P	18	
-20				Auger Refusal @ -19.5'. Possible

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material Description
-25				Bedrock. End Of Boring. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765160.651, **Easting** 1061297.814

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-029
Station 788+19
Offset 75.1 ft Right
Ground Surface Elev. 645.65 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
645.15				6.0" CLAYEY TOPSOIL-brown & black
			33	
	4			CLAY LOAM-brown & gray-stiff to very stiff
	4 8	3.00 P	22	
	3			
-5	3 5	2.50 P	18	
	4			
	7 12	2.50 B	23	
	4			
-10	7 7	1.75 P	31	
	4			
	8 10	3.40 B	25	
632.65				SILTY LOAM-brown-loose
	3			
-15	3 5		22	
630.15				CLAY LOAM-gray-very stiff
	7			
	9 9	3.50 P	15	
627.65				CLAYEY GRAVEL-brown-dense
	5			
-20	12 27		7	
625.65				Auger Refusal @ -20.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.
-25				
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765122.567, **Easting** 1061483.393

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-030
Station 790+03
Offset 118.9 ft Right
Ground Surface Elev. 653.25 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
652.75				6.0" TOPSOIL-black
			28	CLAY LOAM with Stone-brown-very stiff (Fill)
	4			
	5 6	2.20 B	14	
650.25				
				CLAY LOAM-brown & gray-very stiff to hard
	4			
-5	5 7	2.60 B	17	
	5			
	5 7	4.40 B	25	
	5			
-10	7 9	4.20 B	25	
	5			
	6 9	3.50 P	15	
640.25				
				SILTY CLAY LOAM-brown-very stiff
	6			
-15	6 6	2.50 P	16	
637.75				
				CLAY LOAM-brown-very stiff
	5			
	7 11	3.40 B	17	
634.25	50/1"		NR	
-20				Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.
				-40

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765181.4, **Easting** 1061697.3

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-031
Station 792+19
Offset 66.8 ft Right
Ground Surface Elev. 649.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
648.80				6.0" CLAYEY TOPSOIL-dark brown & black
			38	
	3			SILTY CLAY-brown-hard
	5 6	4.00 P	22	
646.30				
				CLAY LOAM-brown-very stiff
	5			
-5	5 7	2.20 B	17	
				becoming gray @ -5.5'
	5			
	8 8	2.70 B	19	
	4			
-10	5 8	3.00 P	19	
	4			
	5 8	2.20 B	22	
	5			
-15	8 12	3.00 P	16	
	4			
	5 8	3.50 P	14	
631.30				
				FRACTURED ROCK-brown-very dense
	15			
-20	23 50/2"		6	

628.80

Auger Refusal @ -20.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.

-25 -30 -35 -40

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765189, **Easting** 1061924.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-032
Station 794+46
Offset 66.3 ft Right
Ground Surface Elev. 649.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 649.00				
CLAY LOAM-brown & gray-very stiff				55
		5		
		5 6	3.00 P	18
		5		
	-5	5 5	2.20 B	21
		5		
		8 11	3.00 P	21
becoming gray @ -8.0'		4		
	-10	4 4	2.00 P	20
639.00				
SILTY CLAY-gray-medium stiff		2		
		3 3	0.50 P	15
636.50				
CLAY LOAM-gray-very stiff		3		
	-15	5 7	2.50 B	16
		5		
		15 50/1"	2.50 P	16
631.00				
Auger Refusal @ -18.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.		50/1"		
	-20			NR

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765172.834, **Easting** 1062082.047

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-033
Station 100+69
Offset 34.3 ft Right
Ground Surface Elev. 647.14 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM with Stone-brown (Fill)	646.14				14
ORGANIC SILTY CLAY-black-medium dense			5 9 10		50
	644.14				
SILTY CLAY-dark brown & gray-very stiff (Fill)			7		
		-5	28 13	2.70 B	25
	641.64				
CLAY LOAM-gray-very stiff (Fill)			5		
			10 4		NR
	639.14				
SILTY CLAY LOAM-brown & gray-stiff to very stiff (Fill)			6		
		-10	5 7	2.20 B	20
			6		
			5 8	1.50 P	13
			7		
		-15	8 13	3.00 P	18
	631.64				
FRACTURED ROCK-brown-very dense	630.64		50/1"		
Auger Refusal @ -16.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.					5
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765181.517, **Easting** 1062269.559

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-034
Station 102+56
Offset 21.6 ft Right
Ground Surface Elev. 646.05 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black	645.55				
CLAY LOAM-brown-very stiff to hard			4		26
			5 7	4.00 B	23
becoming gray @ -3.0'			3		
		-5	4 5	3.00 P	17
			6		
			6 6	3.00 P	17
			4		
		-10	5 10	2.20 B	21
	635.55				
SILTY CLAY LOAM-brown & gray-very stiff to hard			5		
			6 7		15
			6		
		-15	6 29	4.50 P	17
	630.05				
Auger Refusal @ -16.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.		-20	50/1"		NR

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765187.481, **Easting** 1062510.657

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-035 **Station** 104+97 **Offset** 10.4 ft Right **Ground Surface Elev.** 644.55 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black	644.05				
CLAY LOAM-brown & gray-stiff					35
			3		
			4 6	1.80 B	22
	641.55				
SILTY CLAY LOAM-brown & gray-stiff					
			3		
			5 5	1.75 P	26
	639.05	-5			
CLAY LOAM-brown & gray-very stiff					
			4		
			5 7	3.50 P	22
			6		
			6 9	3.00 P	21
		-10			
			4		
			5 7	3.00 P	23
	631.55				
CLAY LOAM with Gravel-brown & gray-very stiff			4		
			8 8	2.00 P	18
	629.05	-15			
SILTY SAND & FRACTURED ROCK-very dense	628.05		50/1"		
Auger Refusal @ -16.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.					16
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765155.812, **Easting** 1062682

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-036
Station 106+69
Offset 38.3 ft Right
Ground Surface Elev. 644.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" TOPSOIL-black 643.97				
SILTY CLAY-dark brown-stiff				31
		3		
		3 4	1.00 P	27
641.30				
CLAY LOAM-brown-stiff to very stiff				
		5		
		8 11	3.50 P	21
	-5			
		5		
		6 8	3.00 P	21
		3		
		3 7	3.50 P	22
	-10			
		5		
		7 9	2.40 B	21
becoming gray @ -13.0'		3		
		4 6	2.50 P	16
	-15			
		4		
		6 8	3.00 P	17
626.30				
FRACTURED ROCK-very dense		50/1"		
624.80				9
Auger Refusal @ -19.5'. Possible	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Bedrock. End Of Boring. Boring backfilled with cuttings.				
	-25			
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765157.331, **Easting** 1062784.69

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-037
Station 107+72
Offset 32.9 ft Right
Ground Surface Elev. 642.46 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 641.96			
CLAY LOAM-brown-stiff to very stiff			27
	3		
	4 7	2.50 P	20
	5		
-5	8 9	2.70 B	20
	4		
	4 5	1.50 P	20
	3		
-10	3 5	1.50 P	25
	5		
	5 7	3.00 P	26
	5		
-15	3 4	1.00 P	25
	4		
	6 10	2.00 P	17
623.46	6		
Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring -20	50/3"	2.20 B	24

backfilled with cuttings.

-25 -30 -35 -40

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765471.035, **Easting** 1064874.901

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-038
Station 824+04
Offset 123.2 ft Left
Ground Surface Elev. 634.76 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 627.757 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
633.76			37	
	3			SILTY CLAY-brown & gray-stiff
	4 6	1.20 B	25	
631.76				
	1			LOAM-brown & gray-very loose to loose
	2 2		23	
-5				
	4			becoming gray @ -5.5'
▼	3 3		27	
626.76				
	3			SILTY CLAY-gray-stiff
	3 3	1.25 P	24	
-10				
624.26				
	2			SILTY SAND with Gravel-gray-loose
	3 2		28	
	4			
	3 3		22	
-15				
	3			
	3 4		15	
616.76				
	3			SILT-gray-loose
	4 3		24	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
614.26				SILTY CLAY-gray-stiff
	3			
	4 5	1.50 P	21	
611.76				
	4			SILTY LOAM-gray-medium dense
	6 5		17	
609.76 -25				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765426.658, **Easting** 1065074.12

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-039
Station 826+04
Offset 114 ft Left
Ground Surface Elev. 639.41 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 630.909 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
638.41			29	
	3			CLAY LOAM-brown & gray-stiff
	3 3	1.10 B	21	
636.41				
	1			SANDY CLAY LOAM-brown & gray-medium stiff
	2	0.50	23	
-5	2	P		
633.91				
	3			SANDY LOAM-brown-loose
	2 3		26	
▼	3			
	2		24	
-10	33			
628.91				
	2			SILTY SAND with Gravel-brown-very loose to loose
	2 2		25	
	1			
	2		20	
-15	2			
623.91				
	2			SAND-brown-loose
	3 2		33	
621.41				
	3			CLAY LOAM-gray-stiff
	3	1.50	17	
-20	6	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
618.91				
	5			SAND-brown-medium dense
	10		25	
	10			
	6			
	3		17	
614.41 -25	10			
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765469.864, **Easting** 1065272.768

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-040
Station 828+02
Offset 109.5 ft Left
Ground Surface Elev. 634.46 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 627.459 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
633.46			43	
	3			SILTY CLAY-brown & gray-stiff
	3 3	1.75 P	23	
631.46				
	1			SANDY LOAM-brown & gray-very loose
-5	2 2		18	
628.96				
	3			SILTY CLAY-gray-medium stiff
▼	2 3	0.80 B	27	
626.46				
	3			CLAY LOAM-gray-stiff to very stiff
-10	4 4	1.30 B	25	
	3			
	4 7	2.50 P	24	
621.46				
	2			SAND-gray-loose
-15	3 5		23	
618.96				
	3			CLAY LOAM-gray-very stiff
	5 11	2.10 B	20	
	4			
-20	5 9	3.25 P	27	
613.96				SAND-gray-medium dense
	4			
	7 11		16	
	3			
609.46 -25	7 9		22	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765464.134, **Easting** 1065474.058

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-041
Station 830+03
Offset 98 ft Left
Ground Surface Elev. 633.61 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 624.607 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
			35	632.61
	2			CLAY LOAM-brown & gray-stiff
	3 3	1.00 P	27	
	2			
-5	2 2	1.00 B	29	
	4			
	5 6	1.30 B	23	
				625.61
	3			SAND-brown- loose ▼
-10	3 3		23	
				623.11
	4			CLAY-gray-very stiff
	5 10	2.40 B	20	
	3			
-15	4 6	2.50 P	20	
	3			
	5 6	2.00 P	28	
				615.61
	4			SAND-gray-medium dense
-20	7 10		17	
				SAND-gray-medium dense *(continued)*
	5			
	6 7		17	
	4			
-25	5 6		NR	608.61
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765472.738, **Easting** 1065675.383

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-042
Station 832+04
Offset 99.8 ft Left
Ground Surface Elev. 633.84 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 626.343 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
632.84			6	
	3			CLAY LOAM-brown & gray-stiff to very stiff
	4 6	1.50 P	24	
	3			
-5	5 6	2.70 B	23	
	3			
	3 5	2.20 B	24	
625.84 ▼				
	3			CLAYEY SAND-brown-loose to medium dense
-10	3 3		26	
	4			
	5 6		22	
620.84				
	2			SILTY SAND-brown-loose to medium dense
-15	3 4		27	
	3			
	4 5		22	
	3			
-20	5 6		26	
613.34				SAND-gray-medium dense
	4			
	5 6		25	
610.84				CLAY-gray-stiff
	3			
608.84 -25	4 6	1.00 P	26	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765469.851, **Easting** 1065873.35

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-043
Station 834+02
Offset 90.7 ft Left
Ground Surface Elev. 633.86 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 627.361 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
			44	632.86
	3			SILTY CLAY-brown & gray-stiff
	2 3	1.25 P	27	
	2			
-5	3 3	1.50 P	26	
				628.36
	1			SILTY SAND & gravel-brown-very loose ▼
	1 1		28	
				625.86
	2			SANDY LOAM-brown-very loose to loose
-10	2 2		30	
	3			
	5 4		23	
				620.86
	3			SILTY SAND with GRAVEL-brown-loose
-15	4 5		16	
	3			
	3 6		24	
				615.86
	12			SAND-brown & gray-dense
-20	14 16		28	
				613.36
	9			CLAYEY SAND & GRAVEL-brown-medium dense
	11 10		16	
				610.86
	3			SAND with Gravel-gray-loose
-25	4 5		21	
				608.86
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765451.294, **Easting** 1066075.183

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-044
Station 836+03
Offset 65.9 ft Left
Ground Surface Elev. 639.61 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 633.108 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
638.61			71	
	2			SILTY CLAY-dark brown, gray & black-stiff
	4 5	1.20 B	28	
	2			
	3 4	1.75 P	23	
-5 634.11				
	1			SILTY CLAY LOAM-brown & gray-very loose ▼
	1 1		25	
631.61				
	1			SANDY CLAY LOAM-gray-loose
	3 3		25	
-10 629.11				
	3			CLAY LOAM-gray-very stiff
	6 7	2.70 B	21	
	3			
	6 9	2.20 B	22	
-15				
	3			
	5 7	2.75 P	24	
621.61				
	2			SILTY LOAM-gray-medium dense
	4 6		21	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
619.11				CLAY LOAM-gray-stiff to very stiff
	3			
	5 5	1.75 P	14	
	3			
614.61 -25	4 6	2.00 P	13	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765480.818, **Easting** 1066275.651

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-045
Station 838+05
Offset 89.1 ft Left
Ground Surface Elev. 635.14 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 628.641 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
634.14			72	
	3			SILTY CLAY-brown & gray-medium stiff to stiff
	3 4	0.50 P	24	
	2			
-5	2 3	1.00 P	26	
629.64				
	2			SANDY LOAM-brown-loose to medium dense ▼
	4 6		21	
	4			
-10	5 6		17	
624.64				
	3			CLAY LOAM-gray-stiff to very stiff
	4 6	2.50 P	20	
	3			
-15	5 7	1.80 B	19	
619.64				
	5			SILT-gray-loose to medium dense
	7 4		19	
	2			
-20	2 4		1	
614.64				
	4			SILTY SAND & GRAVEL-gray-medium dense
	5 9		18	
612.14				
	4			SILTY CLAY LOAM-gray-stiff
610.14 -25	5 6	1.50 P	14	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765353.593, **Easting** 1068132.123

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-046
Station 856+50
Offset 99 ft Right
Ground Surface Elev. 646.83 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 623.334 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 646.33
			39	CLAY LOAM-brown & gray-stiff to very stiff
	3			
	3 3	1.00 B	24	
	3			
-5	3 5	1.50 P	23	
	4			
	5 8	2.00 B	21	
	5			
-10	7 13	3.10 B	19	
	4			becoming gray @ -10.5'
	5 7	3.00 P	20	
	6			
-15	6 7	2.75 P	19	
	3			
	4 6	2.50 P	21	
	3			
-20	4 6	2.75 P	21	
				CLAY LOAM-brown & gray-stiff to very stiff *(continued)*
	4			
	5 7	2.50 P	21	
				623.83
	4			SILTY CLAY-gray-very stiff ▼
-25	6 12	2.50 P	20	621.83
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765362.44, **Easting** 1068329.028

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-047
Station 585+53
Offset 93.5 ft Right
Ground Surface Elev. 645.35 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 624.352 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
			39	
	4			
	5 6	2.50 P	35	
642.35				
				CLAY LOAM-brown & gray-very stiff
	5			
-5	5 6	3.00 P	25	
	8			
	10 12	2.25 P	24	
				becoming gray @ -8.0'
	5			
-10	5 6	2.50 P	19	
	4			
	4 5	2.50 P	20	
	6			
-15	4 6	2.25 P	20	
	4			
	5 7	2.50 P	28	
	5			
-20	5 6	3.25 P	21	
				CLAY LOAM-brown & gray-very stiff *(continued)* ▼
	6			
	6 7	2.00 P	22	
622.35				
				SILT-gray-medium dense
	5			
620.35 -25	5 6		20	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765364.937, **Easting** 1068534.336

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-048
Station 860+59
Offset 97.5 ft Right
Ground Surface Elev. 644.94 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 621.435 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 644.44
			91	SILTY CLAY-dark brown & gray-stiff
	3			
	3 6	1.00 P	31	
				641.94
				CLAY LOAM-brown & gray-stiff to very stiff
	3			
-5	4 6	2.20 B	23	
	4			
	5 8	1.90 B	22	
	5			
-10	6 9	2.50 B	21	
	5			becoming gray @ -10.5'
	7 9	3.00 P	19	
	4			
-15	5 7	3.00 P	18	
	4			
	5 7	2.25 P	22	
	3			
-20	3 5	1.50 P	22	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown & gray-stiff to very stiff *(continued)*
	5			
	6 11	2.00 P	21	
				621.94
				SILT-gray-medium dense ▼
	9			
-25	6 6		19	
				619.94
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765370.729, **Easting** 1068721.275

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-049
Station 862+46
Offset 97.5 ft Right
Ground Surface Elev. 644.84 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 636.341 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 644.34
			32	CLAY LOAM-brown & gray-very stiff
	5			
	6 6	2.00 P	23	
	5			
-5	5 7	2.00 P	26	
	5			
	8 8	2.00 P	20	
▼	5			
-10	5 8	2.20 B	20	
	6			becoming gray @ -10.5'
	9 13	2.20 B	17	
	6			
-15	7 7	3.00 P	23	
	4			
	5 6	2.50 P	23	
	4			
-20	4 6	2.00 P	23	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown & gray-very stiff *(continued)*
	4			
	7 15	3.00 P	22	
				621.84
				SILTY LOAM-gray-medium dense
	6			
-25	5 5		17	619.84
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765378.085, **Easting** 1068930.99

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-050
Station 864+55
Offset 96.7 ft Right
Ground Surface Elev. 643.66 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 637.66 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.0" TOPSOIL-black 643.24				
CLAY LOAM-brown & gray-stiff (Fill)				66
		3		
		4 4	1.50 P	29
		3		
	-5	3 5	1.50 P	35
638.16				
CLAY LOAM-brown-stiff to very stiff ▼		4		
		4 7	1.25 P	24
		4		
	-10	7 12	3.00 P	22
		5		
		8 9	3.00 P	23
		4		
	-15	5 7	3.00 P	25
becoming gray @ -15.5'		5		
		5 6	2.50 P	22
		4		
	-20	6 8	2.00 P	22
CLAY LOAM-brown-stiff to very stiff *(continued)*		5		
		7 7	2.50 P	23
620.66				
SILT-gray-loose		4		
618.66	-25	3 3		25
End Of Boring @ -25.0'. Boring backfilled with cuttings.	-30			
	-35			
	-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/20/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765637.174, **Easting** 1071368.147

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-051
Station 889+99
Offset 85.9 ft Left
Ground Surface Elev. 654.02 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
653.02			52	
	3			CLAY LOAM-brown-stiff to very stiff
	4 6	1.80 B	21	
	3			
	5 6	1.50 P	19	
-5	3			
	4 6	2.50 P	22	
	4			
	6 8	3.50 P	20	
-10				
643.52				
	2			SILT-gray-medium dense
	4 6		21	
641.02				
	3			CLAY LOAM-gray-very stiff
	5 8	3.00 P	18	
-15	3			
	5 7	2.50 P	19	
	2			
	4 6	2.50 P	19	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-gray-very stiff *(continued)*
	4			
	5 8	2.50 P	19	
	4			
	6 7	2.50 P	18	
629.02 -25				
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/20/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765645.679, **Easting** 1071573.275

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-052
Station 891+05
Offset 88 ft Left
Ground Surface Elev. 652.34 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 645.344 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
651.34			35	
	3			CLAY LOAM-brown-stiff to very stiff
	4 5	2.00 P	26	
	4			
-5	5 6	3.50 P	19	
	5			
▼	4 4	1.00 P	19	
	3			
-10	4 6	2.50 P	23	
	4			becoming gray @ -10.5'
	6 8	2.50 P	21	
	4			
-15	6 9	3.00 P	21	
	4			
	6 10	3.50 P	20	
	4			
-20	6 8	3.50 P	19	
				CLAY LOAM-brown-stiff to very stiff *(continued)*
	4			
	7 6	3.50 P	18	
	4			
627.34 -25	6 7	3.50 P	18	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/20/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765649.616, **Easting** 1071772.238

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-053
Station 893+04
Offset 85.7 ft Left
Ground Surface Elev. 650.77 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
			60	649.77
	4			CLAY LOAM-brown-stiff to very stiff
	4 4	1.50 P	20	
	4			
-5	7 7	2.40 B	19	
	3			
	5 7	1.20 B	19	
	4			
-10	6 8	2.50 P	20	becoming gray @ -10.5'
	3			
	5 8	3.00 P	22	
	2			
-15	4 6	2.00 P	22	
	3			
	4 6	2.50 P	18	
	4			
-20	4 6	2.00 P	14	
				CLAY LOAM-brown-stiff to very stiff *(continued)*
	3			
	5 7	2.50 P	19	
	3			
-25	4 6	1.75 P	19	625.77
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/20/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765657.34, **Easting** 1071967.827

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-054
Station 895+00
Offset 87.3 ft Left
Ground Surface Elev. 649.62 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black 648.62			55
CLAY LOAM-brown-stiff to very stiff	4		
	5 6	2.00 P	30
	3		
-5	4 6	1.75 P	25
	4		
	6 8	1.80 B	20
becoming gray @ -8.0'	3		
-10	4 5	2.75 P	17
	3		
	4 6	3.00 P	20
	3		
-15	4 5	2.50 P	20
	3		
	5 7	1.80 B	19
	4		
-20	6 7	2.50 P	19
CLAY LOAM-brown-stiff to very stiff *(continued)*	3		
	5 6	2.50 P	18
	3		
624.62 -25	4 7	2.50 P	18
End Of Boring @ -25.0'. Boring backfilled with cuttings.			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E,
Northing 1765666.196, **Easting** 1072167.916

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-055
Station 897+00
Offset 89.9 ft Left
Ground Surface Elev. 649.05 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 628.05 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
			27	648.05
	2			CLAY LOAM-brown & gray-stiff to very stiff
	2 3	1.00 P	22	
	5			
-5	7 10	3.10 B	14	
	5			
	6 7	1.80 B	22	
	11			
-10	8 6	1.50 P	17	
				638.05
	50/5"			COBBLES & BOULDERS-very dense
			2	636.55
				CLAY LOAM-gray-very stiff
	3			
-15	5 6	2.25 P	19	
	3			
	5 7	2.25 P	22	
	3			
-20	4 7	2.75 P	21	
				628.55
				SILT-gray-medium dense ▼
	3			
	4 6		21	
				626.05
	4			SILTY CLAY LOAM-gray-stiff
-25	6 7	1.50 P	17	624.05
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/9/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765671.745, **Easting** 1072370.697

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-056
Station 899+03
Offset 86.1 ft Left
Ground Surface Elev. 649.34 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
648.34			43	
	2			SILTY CLAY-dark brown & gray-stiff
	3 4	1.40 B	29	
646.34				
				CLAY LOAM-brown-very stiff
	3			
-5	4 6	3.50 B	16	
	4			
	5 7	2.50 P	18	
	5			
-10	6 9	2.20 B	18	
				becoming gray @ -10.5'
	5			
	6 7	2.50 P	17	
	5			
-15	6 8	3.10 B	16	
	3			
	4 6	2.50 P	22	
	3			
-20	5 7	2.25 P	20	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-very stiff *(continued)*
	3			
	5 6	3.10 B	17	
	3			
624.34 -25	5 8	2.20 B	18	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765682.871, **Easting** 1072573.396

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-057
Station 901+06
Offset 93.8 ft Left
Ground Surface Elev. 649.44 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				TOPSOIL-black
			33	648.44
	3			SILTY CLAY-black-stiff (Fill)
	3 5	1.20 B	28	
				646.44
	3			CLAY LOAM-brown & gray-stiff (Fill)
-5	3 4	1.20 B	18	
				643.94
	2			SILTY CLAY-dark brown & gray-medium stiff
	2 3	0.50 P	35	
				641.44
	2			CLAY LOAM-brown & gray-stiff to very stiff
-10	3 4	2.60 B	19	
	3			becoming gray @ -10.5'
	5 7	2.10 B	19	
	3			
-15	4 7	3.75 P	21	
	3			
	5 5	1.75 P	22	
	3			
-20	3 5	1.50 P	13	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				CLAY LOAM-brown & gray-stiff to very stiff *(continued)*
	4			
	5 6	2.00 P	14	
	3			
624.44 -25	4 6	1.30 B	18	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765685.279, **Easting** 1072767.109

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-058
Station 902+99
Offset 90.2 ft Left
Ground Surface Elev. 649.45 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 649.452 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
648.45			65	
	3			CLAY LOAM-brown-very stiff
	6 9	3.10 B	18	
	4			
-5	7 10	3.10 B	17	
	3			
	7 10	2.70 B	19	
	4			becoming gray @ -8.0
-10	7 9	2.70 B	19	
	3			
	4 6	2.50 P	22	
	2			
-15	4 6	2.50 P	22	
	5			
	6 10	3.00 P	18	
	3			
-20	5 6	2.00 P	12	
628.95				
				CLAY LOAM with Gravel-gray-very dense
	50/2"		18	
626.45				
	3			CLAY LOAM-gray-very stiff
624.45	5 6	2.00 P	18	
-25				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/8/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765698.661, **Easting** 1072969.909

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-059
Station 905+02
Offset 97.2 ft Left
Ground Surface Elev. 650.32 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 643.32 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black			
649.32			84
CLAY LOAM-brown & gray-stiff to very stiff	3		
	3 5	3.40 B	17
	2		
-5	4 5	1.50 P	22
	4		
▼	6 7	3.10 B	21
becoming gray @ -8.0	4		
-10	6 8	2.20 B	19
	3		
	6 8	2.25 P	21
	3		
-15	4 6	2.25 P	20
	3		
	4 5	2.00 P	22
	4		
-20	4 7	2.00 P	22
CLAY LOAM-brown & gray-stiff to very stiff *(continued)*			
	3		
	5 8	2.75 P	21
	4		
625.32 -25	5 7	2.00 P	23
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/8/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765705.786, **Easting** 1073171.598

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-060
Station 907+04
Offset 98 ft Left
Ground Surface Elev. 649.86 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 637.862 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAYEY SAND & GRAVEL-dark brown
			21	648.86
	4			CLAY LOAM-brown & gray-very stiff
	4 5	2.50 P	18	
	4			
-5	6 7	3.50 B	18	
	4			
	5 6	3.50 B	16	
	3			
-10	4 5	3.25 P	18	
	4			becoming gray @ -10.5
▼	4 5	2.75 P	19	
	4			
-15	4 5	2.00 P	22	
	2			
	4 5	2.00 B	22	
	3			
-20	4 6	2.50 P	22	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				629.36
	3			SILTY CLAY LOAM-gray-very stiff
	5 5	2.00 P	14	
				626.86
	4			CLAY LOAM-gray-very stiff
-25	6 9	3.40 B	17	624.86
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/8/22

ROUTE FAI Route 80 from Chicago Street to US Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765714.187, **Easting** 1073363.838

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-061
Station 908+97
Offset 100.4 ft Left
Ground Surface Elev. 648.63 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 631.131 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
647.63			23
CLAYEY TOPSOIL-dark brown & black	3		
CLAY LOAM-brown & gray-stiff to very stiff	5 5	2.50 B	17
	3		
-5	4 4	2.50 B	18
	3		
	5 8	2.70 B	20
	4		
-10	8 12	3.40 B	19
becoming gray @ -10.5	4		
	7 8	2.50 B	22
	3		
-15	4 5	1.50 P	23
	4		
▼	5 50/1"	1.80 B	18
	3		
-20	5 7	1.75 P	17

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-stiff to very stiff *(continued)*	5		
	6 7	1.80 B	17
	4		
623.63 -25	5 6	2.00 P	20
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/8/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765719.404, **Easting** 1073566.818

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-062
Station 911+00
Offset 99.2 ft Left
Ground Surface Elev. 643.93 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 633.925 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
642.93			31	
	3			CLAY LOAM-dark brown & gray spotted black-stiff (Fill)
	4 4	1.50 P	31	
	3			
	16	1.00	18	
-5	6	P		
638.43				
	2			CLAY LOAM-brown-stiff to very stiff
	3 4	1.00 P	20	
	3			
	5	3.75	20	
▼-10	7	P		
	4			becoming gray @ -10.5
	6 7	2.20 B	16	
	3			
	3	1.80	16	
-15	6	B		
	3			
	5 7	2.50 B	17	
	3			
	6	2.20	18	
-20	9	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-stiff to very stiff *(continued)*
	3			
	5 8	2.20 B	18	
	4			
618.93	6	2.10	18	
-25	7	B		
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/7/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765727.676, **Easting** 1073774.496

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-063
Station 913+07
Offset 101 ft Left
Ground Surface Elev. 642.69 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 631.692 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				TOPSOIL-black
			37	641.69
	3			SILTY CLAY-dark brown & gray-stiff
	3 4	1.80 B	30	
				639.69
				CLAY LOAM-brown-very stiff to hard
	3			
-5	3 3	2.10 B	17	
	3			
	4 5	2.00 P	18	
	3			
-10	5 12	5.70 B	18	
				becoming gray @ -10.5 ▼
	4			
	5 7	4.20 B	19	
	3			
-15	5 6	3.00 B	21	
	2			
	4 5	2.80 B	19	
	3			
-20	3 3	2.20 B	14	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				CLAY LOAM-brown-very stiff to hard *(continued)*
	4			
	4 5	2.00 B	19	
	4			
617.69 -25	5 7	2.00 P	14	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/7/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765731.808, **Easting** 1073974.385

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-064
Station 915+07
Offset 98.9 ft Left
Ground Surface Elev. 641.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 630.296 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				TOPSOIL-black
			31	640.30
	3			SILTY CLAY-black-stiff
	4 5	1.20 B	29	
	2			
-5	2 2	1.60 B	28	
				635.80
	1			CLAY LOAM-brown & gray-very stiff to hard
	2 3	2.60 B	24	
	3			
-10	6 8	6.40 B	22	
	3			▼
	6 7	5.30 B	22	
	3			becoming gray @ -13.0
-15	4 7	3.70 B	20	
	2			
	3 4	3.40 B	14	
	3			
-20	3 4	3.60 B	13	
-25	5 5	2.50 B	21	CLAY LOAM-brown & gray-very stiff to hard *(continued)* 616.30
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/7/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765737.367, **Easting** 1074161.745

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-065
Station 916+95
Offset 98.6 ft Left
Ground Surface Elev. 639.97 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 626.469 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
638.97			31	
	2			CLAY LOAM with Stone-brown-very stiff (Fill)
	3 6	2.90 B	17	
636.97				
	3			ORGANIC SILTY CLAY-black-medium stiff
-5	4 7	0.70 B	37	
634.47				
	2			CLAY LOAM-brown & gray-stiff to hard
	2 4	1.90 B	23	
	3			
-10	4 6	4.00 B	18	
	3			
	6 9	3.90 B	22	
	4			becoming gray @ -13.0 ▼
-15	6 8	3.60 B	20	
	4			
	6 9	3.50 B	18	
	3			
-20	4 6	4.40 B	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown & gray-stiff to hard *(continued)*
	3			
	2 4	1.10 B	20	
	2			
614.97 -25	3 4	1.10 B	20	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/24/22

FAI Route 80 from 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.** R11E, 3rd **PM**,
Northing 1765562.819, **Easting** 1074689.564

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-066
Station 922+04
Offset 105.9 ft Right
Ground Surface Elev. 647.29 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAYEY TOPSOIL dark brown & black
			27	646.29
	3			SILTY SAND & GRAVEL-brown-medium dense (Fill)
	4 6		16	
				644.29
				CLAY LOAM-brown-very stiff to hard
	3			
	4 5	3.50 P	17	
-5				
	6			
	9 9	4.50 P	19	
	6			
	7 9	4.00 P	18	
-10				
	4			becoming gray @ -10.5
	5 5	2.00 P	21	
	4			
	6 6	2.00 P	23	
-15				
	2			
	4 4	2.50 P	24	
	3			
	3 5	2.20 B	22	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-very stiff to hard *(continued)*
	6			
	9 13	2.70 B	16	
	5			
	8 13	4.00 P	13	
-25				622.29
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/24/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1765584.393, **Easting** 1074880.87

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-067
Station 924+00
Offset 105.5 ft Right
Ground Surface Elev. 651.08 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				3.0" TOPSOIL-black 650.83
			41	SANDY CLAY LOAM-dark brown-stiff (Fill)
	3			
	3 3	1.00 P	21	
				648.08
				SILTY CLAY LOAM-dark brown & gray-stiff (Fill)
	3			
	1	1.00	32	
-5	2	P		
				645.58
				SILTY SAND & GRAVEL-brown-very loose to loose
	1			
	2 1		22	
	2			
	2		25	
-10	2			
				640.58
				CLAY LOAM-gray-stiff to very stiff
	3			
	4 5	1.50 P	20	
	4			
	6	2.50	19	
-15	8	P		
	7			
	7 9	2.50 P	21	
	5			
	5	3.50	19	
-20	6	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-gray-stiff to very stiff *(continued)*
	4			
	5 6	1.00 P	16	
	4			
	5	2.00	17	
-25	6	P		
				626.08
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/24/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1765621.413, **Easting** 1075085.689

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-068
Station 926+00
Offset 105.5 ft Right
Ground Surface Elev. 651.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				5.0" TOPSOIL-black 651.18
			34	CLAY LOAM-brown-very stiff
	4			
	4 4	2.50 P	24	
				648.60
				SILTY SAND & GRAVEL-brown-very loose to loose
	2			
	3		23	
-5	2			
	2			
	1 1		25	
	0			
	0		24	
-10	1			
				641.10
				CLAY LOAM-gray-very stiff
	4			
	5 8	3.50 P	20	
				638.60
				CLAYEY SAND & GRAVEL-gray-medium dense
	5			
	11		6	
-15	11			
				636.10
				CLAY LOAM-gray-very stiff
	4			
	6 9	3.50 P	16	
	5			
	7	3.00	20	
-20	12	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				631.10
				SILT-gray-loose
	3			
	3 3		19	
				628.60
				CLAY LOAM-gray-stiff
	3			
	4	1.00	17	
626.60 -25	4	P		
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 2/24/22

FAI Route 80 from 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.** R11E, 3rd **PM**,
Northing 1765670.783, **Easting** 1075287.966

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-069
Station 928+00
Offset 108.6 ft Right
Ground Surface Elev. 651.29 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 650.79				
SILTY CLAY LOAM-dark brown, gray & black-stiff		3		59
		3 4	1.20 B	30
648.29				
CLAY LOAM-brown & gray-stiff		4		
	-5	4 5	1.50 P	18
645.79				
SILTY GRAVEL-brown-dense		3		
		5 29		7
643.29				
SILTY CLAY LOAM-gray-stiff		3		
	-10	3 4	1.00 P	20
640.79				
CLAY LOAM-gray-stiff		2		
		5 5	1.00 P	21
		4		
	-15	4 6	2.00 P	23
		3		
		4 7	1.80 B	22
633.29				
SILT-gray-very loose		1		
		1 1		19
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
630.79				
CLAY LOAM-gray-very stiff		6		
		8 12	2.50 P	19
		4		
		5 6	2.00 P	13
626.29	-25			
End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/28/22

ROUTE FAI Route 80 from Chicago Street to US Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 17 **LOCATION** SW 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765727.109, **Easting** 1075485.234

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-070
Station 930+00
Offset 108.6 ft Right
Ground Surface Elev. 653.53 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 635.032 ft
Upon Completion 635.532 ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 653.03
			34	GRAVEL & STONE-brown & black-loose (Fill)
	4			
	3 4		24	
				650.53
				CLAY LOAM-brown-very stiff
	4			
-5	5 6	2.00 P	30	
	3			
	3 5	2.50 P	6	
	5			
-10	6 7	2.10 B	16	
	3			becoming gray @ -8.0'
	3 6	2.00 P	15	
	3			
-15	4 6	2.00 P	19	
	4			
	5 7	2.00 P	19	
	3			
-20	4 5	2.00 P	17	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-very stiff *(continued)*
	3			
	5 7	2.50 P	19	
	3			
-25	5 6	2.50 P	18	628.53
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Geo Services, Inc.
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805 Amherst Court, Suite 204
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(630) 355-2838

SOIL BORING LOG

Date 2/28/22

FAI Route 80 from 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.** R11E, 3rd **PM**,
Northing 1765780.838, **Easting** 1075683.535

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-071
Station 932+00
Offset 123.2 ft Right
Ground Surface Elev. 655.52 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 634.523 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 655.02
			32	CLAY LOAM-dark brown & gray spotted-very stiff (Fill)
	3			
	3 4	2.00 P	29	
				652.52
				CLAY LOAM-brown & gray-stiff to very stiff
	2			
-5	2 3	1.50 P	19	
	4			
	4 9	3.50 P	18	
	4			
-10	5 7	3.50 P	16	
	5			becoming gray @ -10.5'
	9 14	2.50 P	19	
	4			
-15	5 10	3.50 P	17	
	3			
	4 8	2.00 P	21	
	3			
-20	6 7	3.00 P	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown & gray-stiff to very stiff *(continued)* 634.52 ▼
	4			SILTY SAND & GRAVEL-gray-medium dense
	6 13		12	
				632.52
	6			CLAY LOAM-gray-very stiff
-25	6 5	2.00 P	17	630.52
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/28/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1765838.698, **Easting** 1075883.259

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-072
Station 934+00
Offset 145.4 ft Right
Ground Surface Elev. 659.61 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 651.112 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 659.11				
SILTY CLAY-dark brown-stiff				35
		3		
		4 5	1.50 P	28
		7		
		10 8	1.50 P	24
	-5			
654.11				
CLAY LOAM-brown-very stiff to hard		4		
		7 7	3.00 P	16
▼		4		
		5 7	4.00 P	18
	-10			
		5		
		7 13	2.00 B	19
becoming gray @ -13.0'		5		
		6 9	2.00 P	18
	-15			
		8		
		7 8	2.50 P	18
		4		
		6 6	2.00 P	22
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown-very stiff to hard *(continued)*				
		8		
		9 10	3.50 P	15
		9		
634.61		11 14	3.00 P	17
	-25			
End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 2/28/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1765995.4, **Easting** 1076036.1

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-073A
Station 936+00
Offset 70.2 ft Right
Ground Surface Elev. 649.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" TOPSOIL-black 648.73			
			25
CLAY LOAM-brown-very stiff	3		
	3 5	2.50 P	24
	5		
-5	6 7	2.50 P	21
	4		
	6 8	2.50 P	17
	5		
-10	6 9	3.00 P	18
	5		
	7 10	2.20 B	16
becoming gray @ -13.0'	5		
-15	5 12	2.00 B	18
	4		
	4 9	2.00 P	17
	5		
-20	5 8	2.00 P	18

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown-very stiff *(continued)*			
	3		
	4 6	3.00 P	14
	3		
624.40 -25	5 6	2.50 P	15
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/9/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1766029.1, **Easting** 1076251.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. NWB-074
Station 938+00
Offset 142 ft Right
Ground Surface Elev. 662.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-dark brown & black-very stiff	HA		
		2.00 P	28
660.00			
CLAY LOAM-brown & gray-very stiff	HA		
		3.00 P	20
	HA		
-5		3.50 P	18
656.00			
Auger Refusal @ -6.0'. End Of Boring. Boring backfilled with cuttings.			
-10			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1766093.455, **Easting** 1076217.16

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-074A
Station 938+02
Offset 70.2 ft Right
Ground Surface Elev. 647.07 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
13.0" CONCRETE				
645.99				
CRUSHED STONE-dense		21		
		25		7
		4		
644.07				
CLAY LOAM-brown-very stiff (Fill)		6		
		6	3.10	15
	-5	6	B	
becoming gray @ -5.5'		4		
		7	2.75	18
		7	P	
		3		
		3	2.00	14
	-10	4	P	
636.57				
CRUSHED STONE-brown & gray-very dense		14		
		26		7
		50/2"		
		17		
		50/5"		8
	-15			
631.57				
SILTY CLAY-dark gray to gray-medium stiff to stiff		3		
		4	1.50	26
		5	P	
		3		
		2	1.00	38
	-20	2	P	
SILTY CLAY-dark gray to gray-medium stiff to stiff *(continued)*		2		
		1	0.50	36
		2	P	
624.07				
SILTY CLAY LOAM-gray-very stiff		5		
		5	2.00	24
622.07	-25	6	P	
End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/9/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1766138.4, **Easting** 1076251.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. - **Station** -

BORING NO. NWB-075 **Station** 940+00 **Offset** 70.2 ft Right **Ground Surface Elev.** 660.20 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** 654.2 ft ▼ **Upon Completion** ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" TOPSOIL-black		HA		
659.45				20
CLAY LOAM-brown & gray-stiff to very stiff (Fill)		HA		
			1.00 P	22
		HA		
			2.00 P	28
655.70				
SILTY CLAY-brown & gray-stiff	-5	HA		
			1.00 P	21
654.20 ▼				
CLAY LOAM-brown-stiff		HA		
			1.50 P	24
		HA		
			1.50 P	23
650.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from 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.** R11E, 3rd **PM**,
Northing 1766196.618, **Easting** 1076386.226

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-075A
Station 939+96
Offset 70.2 ft Right
Ground Surface Elev. 644.27 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 633.269 ft ▼
Upon Completion ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" CONCRETE					
	643.10				
			32		
CRUSHED ASPHALT & STONE-dense			27 27		5
	640.77				
CLAY LOAM-brown-hard (Fill)	640.27		9	4.50	11
			50/1"	P	
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1766256.3, **Easting** 1076598.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-076
Station 942+00
Offset 141.1 ft Right
Ground Surface Elev. 655.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black		HA		
654.70				38
CLAY LOAM-brown & gray spotted black-very stiff (Fill)		HA		
653.70			3.00	16
SILTY SAND & GRAVEL-brown (Fill)		HA	P	
				9
651.70				
CLAY LOAM-brown spotted black-stiff (Fill)	-5	HA		
			1.00 P	6
649.70				
CLAY LOAM-brown-hard		HA		
			4.50 P	20
		HA		
			4.50 P	17
645.70	-10			
Auger Refusal @ -10.0'. End Of Boring.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from 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.** R11E, 3rd **PM**,
Northing 1766309.787, **Easting** 1076553.735

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-076A
Station 941+95
Offset 71.3 ft Right
Ground Surface Elev. 640.57 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" CONCRETE					
	639.40				
CRUSHED ASPHALT & STONE-dense			36		
			23		5
			23		
	637.57				
FRACTURED ROCK-brown-very dense	636.57		21		
Drillers Observation: Apparent Bedrock			35		5
	635.57	-5	50/2"		
Borehole continued with rock coring.					
		-10			
		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from 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.** R11E, 3rd **PM**, **Northing** 1766383.2, **Easting** 1076762.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-077 **Station** 944+00 **Offset** 141.1 ft Right **Ground Surface Elev.** 651.90 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** ft **After** - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" TOPSOIL-black	651.23		HA		
CLAY LOAM-brown-stiff to very stiff			HA		40
				1.75 P	19
			HA		
				2.50 P	17
			HA		
		-5		2.50 P	22
			HA		
				1.75 P	14
	643.40				
Auger Refusal @ -8.5'. End Of Boring.		-10			
		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/2/22

FAI Route 80 from 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.** R11E, 3rd **PM**,
Northing 1766431.141, **Easting** 1076710.879

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-077A
Station 943+90
Offset 70 ft Right
Ground Surface Elev. 636.25 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" CONCRETE				
635.08				
		28		
CRUSHED ASPHALT & STONE-dense		28		8
		15		
632.75				
Drillers Observation: Apparent Bedrock 632.25		50/0"		NR
Borehole continued with rock coring.	-5			
	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 17 **LOCATION** SE 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1766518.382, **Easting** 1076919.99

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-078
Station 946+00
Offset 139 ft Right
Ground Surface Elev. 656.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black	655.70		HA		31
CLAY LOAM-brown-stiff to hard			HA		
				2.00 P	19
			HA		
				2.50 P	19
			HA		
		-5		4.50 P	20
			HA		
				1.50 P	13
			HA		
				3.00 P	14
	646.20	-10			
Auger Refusal @ -10.0'. End Of Boring.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/3/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 17 **LOCATION** SE 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1766522.793, **Easting** 1076819.589

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-078A
Station 945+30
Offset 69.3 ft Right
Ground Surface Elev. 633.98 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
16.0" CONCRETE				
632.65		16		
CRUSHED STONE-loose to dense		25		4
		16		
		6		
		4		5
	-5	4		
627.48		10		
Borehole continued with rock coring.		50/3"		
	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 17 **LOCATION** SE 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1766587.1, **Easting** 1076994.2

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-079
Station 947+00
Offset 138.7 ft Right
Ground Surface Elev. 657.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black		HA		
656.00		HA		30
CLAY LOAM-dark brown to brown-very stiff (Fill)			2.75 P	11
		HA		
			3.00 P	16
		HA		
	-5		3.25 P	20
		HA		
			2.00 P	23
649.00				
Auger Refusal @ -8.0'. End Of Boring.	-10			
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/3/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 17 **LOCATION** SE 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1766647.529, **Easting** 1076965.806

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-079A
Station 947+18
Offset 75.3 ft Right
Ground Surface Elev. 633.33 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
15.0" CONCRETE				
632.08				
		14		
CRUSHED STONE-dense		16		6
		17		
629.33		10		
Borehole continued with rock coring.		50/2"		
	-5			
	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765144.885, **Easting** 1060583.48

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-001 **Station** 781+05 **Offset** 68.4 ft Right **Ground Surface Elev.** 639.86 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT 638.86			
CLAY LOAM-brown & gray-stiff to hard (Fill)	4		
	5 5	5.20 B	14
	4		
-5	4 5	2.90 B	20
	3		
	3 5	2.80 B	21
	2		
629.86 -10	3 4	1.90 B	26
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/20/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765244.978, **Easting** 1060734.351

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-002
Station 782+59
Offset 26.9 ft Left
Ground Surface Elev. 642.29 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" CRUSHED STONE				
641.29				9
CLAY LOAM-brown & gray spotted black-very stiff to hard (Fill)		3		
		3 4	4.00 B	18
		5		
	-5	7 7	4.80 B	17
		5		
		4 6	2.30 B	22
		5		
		5 7	3.30 B	19
632.29	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765186.395, **Easting** 1060877.921

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-003
Station 784+00
Offset 36.2 ft Right
Ground Surface Elev. 644.01 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
643.01				
CLAY LOAM-brown-stiff to very stiff		3		
		3 5	1.80 B	19
		4		
	-5	6 8	2.50 P	17
		5		
		6 8	2.10 B	18
		4		
634.01	-10	6 9	3.75 P	19
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/18/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765292.7, **Easting** 1061024.4

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-004
Station 785+50
Offset 65 ft Left
Ground Surface Elev. 644.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
643.30				2
CLAY LOAM-brown-hard		10		
		5 6	6.20 B	16
		4		
	-5	8 9	6.20 B	16
		4		
		7 11	6.40 B	17
		5		
634.30	-10	8 10	5.80 B	18
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765163.903, **Easting** 1061180.073

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-005
Station 787+02
Offset 68.1 ft Right
Ground Surface Elev. 645.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 634.3 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT			
644.30			
CLAY LOAM-brown & gray-stiff to hard	5		
	7 7	5.90 B	17
	4		
-5	4 6	4.00 B	16
	3		
	4 6	1.50 B	19
	3		
635.30 -10	6 6	3.20 B	24
End Of Boring @ -10.0'. Boring backfilled with cuttings. ▼			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/20/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765262.677, **Easting** 1061329.645

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-006
Station 788+54
Offset 25.9 ft Left
Ground Surface Elev. 647.38 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE				
646.38				5
CLAY LOAM-brown-very stiff to hard		5		
		4 5	5.30 B	15
		6		
		5 5	4.90 B	17
	-5	5		
		5 9	5.50 B	24
		6		
		9 9	3.90 B	23
637.38	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765208.383, **Easting** 1061481.239

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-007
Station 790+04
Offset 33.1 ft Right
Ground Surface Elev. 648.62 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
647.62				
CLAY LOAM-brown & gray-stiff to very stiff		3		
		4 5	1.80 B	15
		3		
	-5	6 9	2.50 B	24
becoming gray @ -5.5'		5		
		7 9	2.20 B	24
		3		
638.62	-10	6 8	2.50 P	16
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/18/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765310.9, **Easting** 1061620.4

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-008 **Station** 791+46 **Offset** 65 ft Left **Ground Surface Elev.** 648.70 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
647.70				3
CLAY LOAM-brown-very stiff		12		
		7 6	3.50 P	15
		3		
	-5	5 6	3.30 B	17
		4		
		6 9	3.60 B	20
		3		
		7 8	3.70 B	19
638.70	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765192.885, **Easting** 1061777.654

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-009
Station 793+00
Offset 57.9 ft Right
Ground Surface Elev. 649.79 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
648.79				
Silty Loam-brown & gray-hard		6		
		4 3	4.80 B	16
646.79				
CLAY LOAM-brown & gray-very stiff to hard		4		
	-5	4 5	4.00 B	20
		7		
		8 10	2.50 B	19
		4		
		4 7	2.60 B	19
639.79	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/20/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765281.748, **Easting** 1061927.992

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-010
Station 794+53
Offset 26.3 ft Left
Ground Surface Elev. 649.86 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE	648.86				13
CLAY LOAM w/ Stone-brown-very stiff (Fill)			4 5 11	2.25 P	9
SILTY CLAY LOAM (A6)-brown-hard	646.86		5		
		-5	5 8	5.60 B	22
			5		
			9 13	4.00 B	24
SILTY CLAY LOAM-gray-very stiff	641.86		5		
	639.86	-10	5 6	3.60 B	18
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/18/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765337.8, **Easting** 1062223.4

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-011
Station 797+50
Offset 73 ft Left
Ground Surface Elev. 648.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
647.30				1
CLAY LOAM-brown-hard (Fill)		18		
		12 10	4.50 P	12
645.30				
CLAY (A-6)-brown & gray-very stiff to hard		5		
	-5	7 8	4.00 B	21
		3		
		7 8	3.50 B	25
becoming gray @ -8.0'		3		
		6 7	2.00 P	18
638.30	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/20/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765300.762, **Easting** 1062529.182

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-012
Station 800+54
Offset 26.74 ft Left
Ground Surface Elev. 646.79 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 638.285 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE				
				16
645.54		5		
CLAY LOAM w/ Stone-brown-very stiff (Fill)		4 6	2.00 P	10
Fuel odor noted				
643.79				
CLAY LOAM-brown-very stiff to hard		5		
		6 6	5.30 B	18
	-5			
		4		
		4 5	3.50 B	20
	▼	4		
		7 8	3.50 B	20
636.79	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765244.545, **Easting** 1062679.625

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-013
Station 802+03
Offset 34.5 ft Right
Ground Surface Elev. 645.38 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT 644.38				
CLAY LOAM-brown & gray-very stiff		4		
		6 9	2.60 B	18
		5		
	-5	9 13	2.20 B	19
		4		
		4 5	2.00 P	20
becoming gray @ -8.0'		3		
635.38	-10	5 6	3.00 P	19
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765225.293, **Easting** 1062974.199

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-014
Station 804+97
Offset 62.9 ft Right
Ground Surface Elev. 642.61 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
641.61				
CLAY LOAM-dark brown & gray-very stiff (Fill)		7		
		5 9	3.50 B	15
		7		
	-5	11 11	3.70 B	13
		4		
		6 6	2.00 P	17
634.61				
SANDY CLAY LOAM-dark brown-stiff		2		
		4 6	1.20 B	21
632.61	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/19/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765316.872, **Easting** 1063030.653

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-015
Station 805+56
Offset 26.8 ft Left
Ground Surface Elev. 641.59 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE				
640.59				7
CLAY LOAM-brown spotted black-very stiff (Fill)		4		
		1 3	2.00 B	20
		5		
		6 7	3.80 B	24
	-5	6		
		10 8	2.30 B	18
633.59				
CLAY LOAM-brown-very stiff		4		
		4 6	3.30 B	23
631.59	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765264.178, **Easting** 1063280.587

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-016
Station 808+04
Offset 33.7 ft Right
Ground Surface Elev. 640.84 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
639.84				
SILTY LOAM-brown & gray spotted black-stiff to very stiff (Fill)		3		
		5 7	2.70 B	15
		1		
		3 4	1.00 P	25
	-5			
635.34				
CLAY LOAM-brown & gray-very stiff		3		
		5 6	2.70 B	24
632.84				
SILTY CLAY LOAM-brown-very loose		1		
		2 2		24
630.84	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/18/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765367.4, **Easting** 1063423.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-017
Station 809+50
Offset 65 ft Left
Ground Surface Elev. 639.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 630.8 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT			
638.30			1
CLAY LOAM-dark brown spotted black-stiff to hard (Fill)	25		
	7 5	4.40 B	17
	3		
	4 6	1.75 P	21
-5			
633.80			
SANDY CLAY LOAM-brown & gray-stiff	3		
	3 4	1.50 P	18
▼	3		
	5 5	1.00 P	21
629.30 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765244.259, **Easting** 1063579.422

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-018
Station 811+02
Offset 62.9 ft Right
Ground Surface Elev. 639.73 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
638.73				
CLAY LOAM-brown & gray-very stiff to hard (Fill)		21		
		4 7	4.50 P	15
		4		
		7 7	2.60 B	15
	-5			
		3		
		6 6	2.20 B	23
631.73				
SANDY CLAY LOAM (A-6)-brown-stiff		3		
		3 5	1.50 P	16
629.73	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765338.835, **Easting** 1063724.891

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-019
Station 812+50
Offset 26.6 ft Left
Ground Surface Elev. 639.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE				
				10
638.30		3		
SILTY CLAY LOAM (A-6)-dark brown & gray spotted black-very stiff (Fill)		3	3.90	15
		7	B	
		4		
		6	2.70	18
	-5	3	B	
634.30				
SILTY CLAY-dark brown & gray-very stiff		6		
		7	2.40	23
		7	B	
631.80				
CLAY LOAM-brown & gray-very stiff		3		
		4	2.00	17
629.80	-10	4	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1755383.9, **Easting** 1064023

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-020
Station 815+50
Offset 62.7 ft Left
Ground Surface Elev. 639.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
638.30				2
CLAY LOAM w/ Stone-brown & gray-very stiff to hard (Fill)		11		
		5 8	6.00 B	13
		3		
		7 10	3.50 P	21
	-5			
633.80				
CLAY LOAM-brown & gray-very stiff		3		
		5 4	2.40 B	20
		2		
		4 4	2.10 B	19
629.30	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765260.07, **Easting** 1064179.015

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-021
Station 817+00
Offset 60 ft Right
Ground Surface Elev. 639.69 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
638.69				
CLAY LOAM-brown-stiff to very stiff (Fill)		10		
		7 5	4.50 P	14
		6		
		7 8	3.90 B	17
	-5	4		
		5 5	2.50 P	20
631.69				
SILTY CLAY-black-very stiff		3		
		4 5	3.50 B	20
629.69	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/19/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765356.499, **Easting** 1064324.215

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-022
Station 818+50
Offset 25.9 ft Left
Ground Surface Elev. 639.86 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE				
638.61				11
		4		
CLAY LOAM-brown & gray-hard (Fill)		5 6	4.50 P	13
636.86				
CLAY LOAM with Brick & Stone-dark brown & gray-very stiff (Fill)		5		
		4	2.00	19
	-5	4	P	
634.36				
CLAY LOAM-brown & gray spotted black-very stiff (Fill)		4		
		6 5	3.25 P	19
631.86				
CLAY LOAM-brown & gray-very stiff		5		
		6	2.10	23
629.86	-10	6	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765301.897, **Easting** 1064481.531

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-023
Station 820+06
Offset 33.6 ft Right
Ground Surface Elev. 639.36 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT 638.36				
CLAY LOAM-brown & gray spotted black-stiff to very stiff (Fill)		9 8 9	7.10 S	12
		2		
	-5	3 4	2.00 P	23
633.86				
CLAY LOAM-brown & gray-very stiff		3		
		5 6	2.00 P	23
631.36				
SANDY LOAM-brown-very loose		1		
		2 1		26
629.36	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765404.9, **Easting** 1064622.7

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-024
Station 821+50
Offset 65 ft Left
Ground Surface Elev. 639.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
638.20				3
CRUSHED ASPHALT & STONE-medium dense		16		
		7 7		8
636.20				
CLAY LOAM-brown & gray-stiff to very stiff		3		
		7 8	3.30 B	19
	-5	2		
		4 5	2.80 B	22
		3		
		4 4	1.90 B	21
629.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/19/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765376.085, **Easting** 1064925.115

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-025
Station 824+51
Offset 26.7 ft Left
Ground Surface Elev. 640.17 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE				
				10
638.92		7		
SILTY LOAM (A-6)-brown & gray-hard (Fill)		16	6.20	13
		27	B	
		6		
		7	9.00	16
	-5	10	B	
634.67				
CLAY LOAM-dark brown & gray-hard		4		
		5	5.20	19
		9	B	
632.17				
SANDY CLAY LOAM-brown & gray-stiff		3		
		3	1.30	18
630.17	-10	6	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765320.307, **Easting** 1065078.457

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-026
Station 826+03
Offset 33.9 ft Right
Ground Surface Elev. 639.76 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
638.76				
SILTY LOAM (A-6)-brown & gray-stiff to very stiff (Fill)		10		
		9 9	1.80 B	19
		3		
	-5	5 8	3.00 P	17
634.26				
SILTY CLAY-black-stiff		1		
		3 4	1.00 P	29
631.76				
CLAY LOAM-brown & gray-very stiff		1		
		3 4	1.75 P	23
629.76	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765332.745, **Easting** 1065370.026

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-027
Station 828+95
Offset 30.6 ft Right
Ground Surface Elev. 639.92 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 631.42 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
639.59				4.0" ASPHALT
	2			CLAY LOAM-brown & gray spotted black-medium stiff to stiff (Fill)
	5 9	1.00 P	22	
	4			
-5	5 6	1.30 B	21	
	3			
	4 4	1.30 B	23	
▼	1			
629.92 -10	2 3	0.50 P	25	
				End Of Boring @ -10.0'. Boring backfilled with cuttings.
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/19/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765395.239, **Easting** 1065524.105

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-028
Station 830+51
Offset 27.1 ft Left
Ground Surface Elev. 639.89 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE 639.39				
CLAY LOAM-brown & gray-stiff to very stiff (Fill)				8
		5		
		3 5	1.50 P	15
		5		
	-5	5 8	2.30 B	19
		4		
		6 7	3.00 P	25
631.89				
SILTY CLAY-brown & gray-stiff		3		
		3 3	1.00 P	22
629.89	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765341.37, **Easting** 1065677.467

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-029
Station 832+02
Offset 31.6 ft Right
Ground Surface Elev. 639.74 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 636.238 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" ASPHALT 639.49				
CLAY LOAM-dark brown spotted black-very stiff (Fill)		4		
		5 7	2.00 P	19
636.74				
SANDY CLAY LOAM-brown-medium dense (Fill) ▼		5		
		7 9		14
634.24	-5			
SILTY CLAY-brown & gray-stiff		3		
		4 4	1.30 B	17
		2		
		3 3	1.50 P	25
629.74	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765439.609, **Easting** 1065825.647

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-030
Station 833+53
Offset 62 ft Left
Ground Surface Elev. 639.43 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
638.43				
CRUSHED ASPHALT & STONE-medium dense		9		
		7 20		8
636.43				
CLAY LOAM-brown & gray-very stiff (Fill)		3		
		4 7	2.20 B	14
	-5			
633.93				
SILTY CLAY-brown & gray-stiff		2		
		3 4	1.80 B	25
		2		
		3 3	1.30 B	22
629.43	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765316.5, **Easting** 1065976.212

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-031
Station 835+00
Offset 65.8 ft Right
Ground Surface Elev. 639.67 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT	639.01				
CLAY LOAM-brown-stiff to hard (Fill)			3		
			3 5	4.50 P	18
			7		
		-5	7 9	5.75 B	12
			3		
			4 4	1.50 P	25
	631.67				
SILTY CLAY-black-stiff			3		
			4 4	1.90 B	22
	629.67	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/19/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765414.527, **Easting** 1066127.147

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-032
Station 836+54
Offset 27.5 ft Left
Ground Surface Elev. 640.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND, GRAVEL & STONE 639.70				
CLAY LOAM-brown & gray spotted black-stiff to hard (Fill)				8
		9		
		5	5.20	13
		5	B	
		2		
		7	1.80	18
	-5	13	B	
634.70				
CLAY LOAM-brown & gray-very stiff to hard				
		5		
		5	4.70	18
		10	B	
		6		
		6	2.90	22
630.20	-10	10	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765360.565, **Easting** 1066275.142

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-033
Station 838+00
Offset 31.9 ft Right
Ground Surface Elev. 641.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 637.699 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.0" ASPHALT 640.78				
SILTY SAND & GRAVEL-gray-loose (Fill)		2		
		3 9		24
638.20				
CLAY LOAM-brown-very stiff (Fill) ▼		10		
		10 11	2.60 B	18
	-5			
635.70				
SILTY CLAY-brown & gray-very stiff		6		
		5 7	2.70 B	21
633.20				
SILTY CLAY LOAM-brown & gray-very loose		1		
		2 1		21
631.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765459.159, **Easting** 1066423.24

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-034
Station 839+51
Offset 62.8 ft Left
Ground Surface Elev. 642.24 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
641.24				
CRUSHED ASPHALT & STONE-medium dense		12		
		5 7		5
639.24				
CLAY LOAM-brown & gray-hard (Fill)		4		
		9 9	4.25 B	14
	-5			
636.74				
TOPSOIL-black		4		
		7 11	3.30 B	28
634.24				
SILTY CLAY-brown & gray-stiff		3		
		3 4	1.70 B	25
632.24	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765335.98, **Easting** 1066576.376

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-035
Station 841+01
Offset 65.1 ft Right
Ground Surface Elev. 643.93 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT				
643.10				
CLAY LOAM-brown-hard		10		
		6 7	4.00 B	20
640.93				
SILTY CLAY LOAM (A-6)-brown-very stiff		5		
	-5	5 8	2.20 B	16
638.43				
CLAY LOAM-brown-very stiff		3		
		5 5	2.00 P	24
635.93				
SILTY LOAM-dark brown-very loose		1		
		0 1		24
633.93	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/19/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765433.075, **Easting** 1066728.443

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-036 **Station** 842+56 **Offset** 27.2 ft Left **Ground Surface Elev.** 645.69 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
644.69				5
CLAY LOAM (A-6)-dark brown to brown-very stiff to hard (Fill)		9		
		3 6	2.00 B	15
		7		
		6 14	6.80 B	17
	-5	4		
		6 6	2.20 B	26
637.69				
CLAY LOAM-brown-hard		6		
		9 12	7.00 B	17
635.69	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765378.588, **Easting** 1066870.716

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-037
Station 843+96
Offset 31.7 ft Right
Ground Surface Elev. 647.06 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
646.06				
CLAY LOAM with		6		
Stone-brown-very stiff (Fill)		8 10	2.60 B	12
644.06				
CLAY LOAM-brown-very stiff		5		
	-5	6 7	2.75 P	20
becoming gray @ -5.5'		5		
		5 7	2.50 P	19
		3		
		5 7	2.50 P	20
637.06	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765477.62, **Easting** 1067024.186

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-038 **Station** 845+53 **Offset** 62.4 ft Left **Ground Surface Elev.** 648.12 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
647.12				
CRUSHED ASPHALT & STONE-medium dense		24		
		11		4
		7		
645.12				
CLAY LOAM-brown & gray-very stiff		4		
		4	3.10	15
	-5	8	B	
		3		
		5	3.00	21
		6	P	
		4		
		7	3.40	20
638.12	-10	11	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765354.526, **Easting** 1067175.015

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-039
Station 847+00
Offset 65.3 ft Right
Ground Surface Elev. 649.42 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT	648.75				
CLAY LOAM-brown-hard (Fill)			8		
			8 5	4.50 P	10
	646.42				
CLAY LOAM-brown-stiff to very stiff			5		
		-5	5 7	1.80 B	16
becoming gray @ -5.5'			5		
			5 8	1.30 B	17
			4		
			6 4	2.70 B	20
	639.42	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/13/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1755449.7, **Easting** 1067329.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-040
Station 848+57
Offset 25 ft Left
Ground Surface Elev. 25.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" SANDY TOPSOIL-black				
24.00				5
CLAY LOAM-brown-very stiff		3		
		3 5	2.70 B	21
		5		
		7 7	2.50 B	12
	-5			
becoming gray @ -5.5'		4		
		5 6	2.20 B	14
		5		
		7 8	2.70 B	19
15.00	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765397.145, **Easting** 1067473.429

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-041
Station 849+99
Offset 32.1 ft Right
Ground Surface Elev. 651.09 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 647.594 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
650.09				
SAND-brown-very dense (Fill)		7		
		6 6		13
648.09				
CLAY LOAM-gray-very stiff ▼		6		
		6 6	2.10 B	11
	-5	5		
		7 7	3.00 P	17
		4		
		5 7	3.50 P	19
641.09	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765497.334, **Easting** 1067624.116

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-042
Station 851+52
Offset 63.4 ft Left
Ground Surface Elev. 650.89 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
649.89				
CRUSHED ASPHALT & STONE-medium dense		14		
		8 15		6
647.89				
CLAY LOAM-brown & gray-very stiff		4		
		9	3.10	14
	-5	9	B	
		3		
		4	3.00	7
		7	P	
becoming gray @ -8.0'		2		
		4	2.00	22
640.89	-10	7	P	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765372.878, **Easting** 1067770.875

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-043 **Station** 852+96 **Offset** 65.6 ft Right **Ground Surface Elev.** 650.97 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** 647.467 ft ▼ **Upon Completion** ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 650.30				
CLAY LOAM-brown-stiff to very stiff		5		
		5 10	2.50 P	17
▼		4		
	-5	4 7	2.50 P	20
		2		
		5 7	2.20 B	22
		3		
640.97	-10	3 6	1.90 B	22
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/13/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765468.4, **Easting** 1067927

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-044
Station 854+55
Offset 25 ft Left
Ground Surface Elev. 650.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
649.10				8
CLAY LOAM-brown-stiff to very stiff		4		
		7 15	3.00 B	16
		3		
	-5	5 6	3.30 B	18
		3		
		4 5	2.50 P	22
		4		
640.10	-10	5 5	1.50 P	29
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765414.505, **Easting** 1068072.93

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-045
Station 855+99
Offset 33.5 ft Right
Ground Surface Elev. 650.13 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 643.129 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
20.0" ASPHALT			
	4		
648.46			
SILTY LOAM (A-6)-brown & gray spotted black-stiff to very stiff (Fill)	6 4	1.50 P	22
	2		
	4 6	1.50 P	26
-5			
	19		
▼	50/3"	2.00 P	24
642.13			
SILTY CLAY-brown-medium stiff	2		
	2 4	0.50 B	29
640.13 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765515.028, **Easting** 1068224.75

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-046
Station 857+54
Offset 62.2 ft Left
Ground Surface Elev. 648.89 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 640.894 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				ASPHALT
647.89				
	14			CRUSHED ASPHALT & STONE-medium dense
	4 6		4	
645.89				
	3			CLAY LOAM-dark brown & gray-stiff (Fill)
	4 5	1.50 P	23	
-5				
643.39				
	1			SILTY CLAY-dark brown & gray-stiff
	4 4	1.50 P	28	
640.89 ▼				
	1			CLAY LOAM-brown & gray-stiff
	2 3	1.40 B	26	
638.89 -10				
				End Of Boring @ -10.0'. Boring backfilled with cuttings.
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/9/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765391.96, **Easting** 1068376.779

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-047
Station 859+02
Offset 65.5 ft Right
Ground Surface Elev. 647.98 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
646.98				11
CLAY LOAM-dark brown & black-loose (Fill)		3		
		2 3		22
		4		
		3		14
	-5	4		
642.48				
CLAY LOAM-brown & gray-stiff to very stiff		5		
		4 6	2.70 B	22
		5		
		6	4.10	19
637.98	-10	9	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/13/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765489.8, **Easting** 1068521.9

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-048
Station 860+50
Offset 27.7 ft Left
Ground Surface Elev. 646.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
645.90				
CRUSHED ASPHALT & STONE-loose		5		
		3 5		6
643.90				
CLAY LOAM-brown-stiff (Fill)		3		
		4	1.50	22
	-5	3	P	
641.40				
SILTY CLAY-dark brown & gray spotted black-stiff to very stiff		6		
		7 10	2.40 B	25
becoming gray @ -8.0'		3		
		4	1.20	28
636.90	-10	4	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765435.414, **Easting** 1068678.008

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-049
Station 862+04
Offset 31.5 ft Right
Ground Surface Elev. 645.64 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 642.142 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
644.64				
SILTY SAND & STONE-gray-loose		3		
		2 4		19
642.64				
SILTY CLAY-dark brown to black-stiff ▼		3		
		3 4	1.00 P	28
	-5			
640.14				
CLAY LOAM-brown & gray-stiff		3		
		3 3	1.20 B	26
		2		
		3 3	1.00 P	26
635.64	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765533.894, **Easting** 1068824.337

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-050
Station 863+54
Offset 62.3 ft Left
Ground Surface Elev. 645.06 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
644.06				
CRUSHED ASPHALT & STONE-very dense		50/6"		
				5
642.06				
CLAY LOAM-brown & gray-very stiff (Fill)		3		
		5	3.00	19
	-5	7	P	
639.56				
SILTY CLAY-dark gray-stiff		3		
		5	1.40	27
		5	B	
637.06				
CLAY LOAM-brown & gray-stiff		2		
		3	1.20	26
635.06	-10	4	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			
	-25			
	-30			
	-35			
	-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765533.894, **Easting** 1068824.337

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-050
Station 863+54
Offset 62.3 ft Left
Ground Surface Elev. 645.06 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-45				-65			
-50				-70			
-55				-75			
-60				-80			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765533.894, **Easting** 1068824.337

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-050
Station 863+54
Offset 62.3 ft Left
Ground Surface Elev. 645.06 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
-85				
-90				End Of Boring @ -10.0'. Boring backfilled with cuttings.
-95				
-100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765415.461, **Easting** 1068982.64

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-051
Station 865+08
Offset 61 ft Right
Ground Surface Elev. 644.57 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 643.91				
TOPSOIL-black		3		
		3 5	1.50 P	28
641.57				
CLAY LOAM-brown-very stiff to hard		4		
	-5	8 9	4.20 B	19
		3		
		6 6	3.00 P	24
		4		
634.57	-10	7 9	3.10 B	21
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/13/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765505.9, **Easting** 1069123.4

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-052 **Station** 866+52 **Offset** 25 ft Left **Ground Surface Elev.** 645.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
644.00				7
CLAY LOAM-brown-very stiff to hard		4		
		6 8	3.50 P	23
		7		
		8 10	3.50 B	17
	-5	4		
		7 6	3.10 B	21
		7		
		10 12	4.00 B	22
635.00	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MB

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765454.01, **Easting** 1069273.594

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-053
Station 868+00
Offset 31.6 ft Right
Ground Surface Elev. 646.78 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
645.78				
SAND with Gravel-brown & gray-loose (Fill)		4		
		4 2		10
643.78				
CLAY LOAM-brown & gray-stiff to hard		4		
		3 6	1.30 B	24
	-5			
		6		
		10 10	2.90 B	20
becoming gray @ -8.0'		5		
		8 11	4.00 P	19
636.78	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765552.818, **Easting** 1069423.402

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-054
Station 869+53
Offset 62.5 ft Left
Ground Surface Elev. 647.45 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
646.45				
CRUSHED ASPHALT & STONE-medium dense		14		
		5 6		5
644.45				
CLAY LOAM-dark brown & gray-very stiff (Fill)		2		
		6 10	3.75 B	18
	-5			
641.95				
CLAY LOAM-brown & gray-hard		4		
		9 10	5.20 B	19
		5		
		10 12	5.40 B	19
637.45	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/9/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765430.612, **Easting** 1069570.772

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-055
Station 870+96
Offset 64.3 ft Right
Ground Surface Elev. 648.88 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT	648.85				
SILTY LOAM (A-6)-brown-very stiff to hard			6		
			3 5	2.80 B	21
			3		
		-5	6 6	2.80 B	23
			4		
			10 10	4.90 B	19
becoming gray @ -8.0'			9		
	638.88	-10	12 16	4.90 B	17
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/13/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765524.7, **Easting** 1069724.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-056
Station 872+53
Offset 25 ft Left
Ground Surface Elev. 649.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND, GRAVEL & STONE				
648.80				12
SANDY CLAY LOAM with Stone-brown-medium dense (Fill)		3		
		6		16
		6		
646.80				
SILTY LOAM (A-6)-brown-stiff (Fill)		6		
		9	1.30	19
	-5	7	B	
		3		
		2		16
		3		
641.80				
CLAY LOAM-brown-very stiff		4		
		7	2.70	21
639.80	-10	10	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 3/16/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765471.956, **Easting** 1069866.772

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-057
Station 873+94
Offset 32.2 ft Right
Ground Surface Elev. 651.99 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
650.99				
CLAY LOAM-brown-very stiff		4		
		4 5	2.20 B	21
		6		
		7 9	2.50 B	19
	-5	4		
		8 10	2.20 B	21
becoming gray @ -8.0'		3		
		7 5	2.00 P	19
641.99	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/5/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765570.592, **Easting** 1070023.061

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-058
Station 875+53
Offset 61.5 ft Left
Ground Surface Elev. 652.42 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CONCRETE				
651.42				
CLAY LOAM-brown-stiff to hard		4		
		4 7	4.40 B	18
		2		
		4	1.25	21
	-5	4	P	
		4		
		8	2.50	22
		8	P	
becoming gray @ -8.0'		7		
		10	4.50	17
642.42	-10	12	P	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/9/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765449.167, **Easting** 1070177.862

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-059
Station 877+04
Offset 64.7 ft Right
Ground Surface Elev. 653.75 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 653.08				
CLAY LOAM-brown-very stiff		13		
		4 6	3.50 B	19
		2		
	-5	5 7	3.10 B	22
		5		
		7 9	3.70 B	17
becoming gray @ -8.0'		6		
643.75	-10	6 7	2.60 B	17
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/12/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765543.6, **Easting** 1070325.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-060
Station 878+54
Offset 25 ft Left
Ground Surface Elev. 654.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND, GRAVEL & STONE-dark gray	653.60				8
SILTY CLAY LOAM-brown-loose (Fill)			3 2 6		12
	651.60				
CLAY LOAM-brown-very stiff to hard			4		
		-5	7 6	4.00 B	17
			4		
			7 11	3.50 P	20
becoming gray @ -8.0'			5		
	644.60	-10	14 17	3.10 B	23
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765490.463, **Easting** 1070470.973

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-061
Station 879+98
Offset 32.6 ft Right
Ground Surface Elev. 656.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT	655.73				
CLAY LOAM-brown & gray-very stiff to hard			5		
			5 4	2.70 B	17
			4		
		-5	8 7	3.10 B	19
			6		
			10 14	4.50 P	19
			4		
	646.40	-10	5 5	2.00 P	22
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/5/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765592.038, **Easting** 1070624.903

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-062
Station 881+55
Offset 64.1 ft Left
Ground Surface Elev. 656.65 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CONCRETE				
655.65				
CLAY LOAM-brown & gray spotted black-stiff to very stiff (Fill)		2		
		2 7	1.80 B	19
		5		
	-5	6 7	3.00 P	14
		4		
		3 5	3.00 P	22
648.65				
TOPSOIL-black		4		
		5 6	1.00 P	25
646.65	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/9/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765468.369, **Easting** 1070781.413

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-063
Station 883+08
Offset 64.4 ft Right
Ground Surface Elev. 657.76 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT				
656.84				
SILTY CLAY LOAM		3		
(A-6)-brown-medium stiff to very stiff		3 4	1.90 B	20
		3		
	-5	4 5	3.10 B	23
		2		
		2 2	0.90 B	20
becoming gray @ -8.0'		3		
	-10	6 8	3.30 B	17
647.76				
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/12/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765562.4, **Easting** 1070927.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-064
Station 884+57
Offset 25 ft Left
Ground Surface Elev. 657.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND, GRAVEL & STONE-dark gray	656.50				11
CLAY LOAM-brown-very stiff (Fill)			1		
			4 5	3.00 B	5
	654.50				
CLAYEY SAND & GRAVEL-brown-medium dense (Fill)			8		
			6 6		13
	652.00	-5			
CLAY LOAM-brown-very stiff			4		
			5 5	3.00 P	19
becoming gray @ -8.0'			2		
			5 4	2.50 P	16
	647.50	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765509.796, **Easting** 1071073.509

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-065
Station 886+01
Offset 32.2 ft Right
Ground Surface Elev. 657.77 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 649.268 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT 657.27				
CLAY LOAM-brown-stiff to hard				
		10		
		11 4	5.10 B	17
		3		
		6 4	3.00 P	16
	-5			
		3		
		4 3	1.50 P	17
	▼	4		
		7 10	1.50 P	19
647.77	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/5/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765609.218, **Easting** 1071221.196

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-066
Station 887+52
Offset 62.6 ft Left
Ground Surface Elev. 657.25 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CONCRETE				
656.25				
CLAY LOAM-dark brown-very stiff (Fill)		3		
		7 9	3.50 P	23
654.25				
CLAY LOAM-brown-hard		6		
		5 10	4.50 P	17
651.75	-5			
LOAM (A-4)-brown-very stiff		5		
		7 9	3.00 P	14
649.25				
CLAY LOAM-brown-hard		4		
		8 8	3.50 P	18
647.25	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/22/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765487.206, **Easting** 1071377.082

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-067
Station 889+04
Offset 64.3 ft Right
Ground Surface Elev. 656.93 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" ASPHALT 656.18				
SILTY CLAY-dark brown & gray-stiff to hard		2		
		4 5	1.90 B	24
		4		
	-5	9 8	4.20 B	23
651.43				
CLAY LOAM-brown & gray-stiff to very stiff		5		
		5 7	2.30 B	25
		2		
646.93	-10	3 5	1.00 P	30
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/12/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765581.1, **Easting** 1071522.3

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-068
Station 890+52
Offset 25 ft Left
Ground Surface Elev. 656.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND-black				
655.10				15
CLAY LOAM-brown-hard (Fill)		4		
		5	4.90	14
		5	B	
653.10				
SILTY CLAY-dark brown to black-stiff		4		
		5	1.90	23
	-5	6	B	
650.60				
CLAY LOAM-brown-hard		3		
		6	4.50	18
		7	P	
		8		
		11	4.00	17
646.10	-10	13	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765528.468, **Easting** 1071670.692

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-069
Station 891+98
Offset 32.2 ft Right
Ground Surface Elev. 656.05 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT	655.55				
CLAY LOAM-brown-stiff to very stiff (Fill)			3		
			5 4	1.70 B	16
			2		
		-5	3 4	2.00 P	27
			6		
			6 4	2.00 P	14
	648.05				
CLAY LOAM-brown-very stiff			5		
			4 7	2.20 B	19
	646.05	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/5/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765629.913, **Easting** 1071821.115

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-070
Station 893+52
Offset 64.5 ft Left
Ground Surface Elev. 654.77 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CONCRETE				
653.77				
CLAY LOAM-brown & gray spotted black-very stiff (Fill)		2		
		5 12	3.40 B	16
		4		
	-5	5 5	2.20 B	26
649.27				
CLAY LOAM-brown-very stiff to hard		3		
		7 8	2.30 B	19
		4		
		9 9	4.20 B	18
644.77	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/22/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765506.132, **Easting** 1071974.638

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-071
Station 895+02
Offset 64.1 ft Right
Ground Surface Elev. 654.71 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" ASPHALT 653.96				
CRUSHED STONE-loose		4		
		5 4		10
651.71				
CLAY LOAM-brown & gray spotted black-very stiff (Fill)		3		
		6 5	2.00 P	29
	-5			
		6		
		8 9	2.30 B	21
		4		
		6 7	2.80 B	19
644.71	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765602.3, **Easting** 1072124.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-072
Station 896+54
Offset 27.4 ft Left
Ground Surface Elev. 654.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
15.0" ASPHALT				
652.75		2		
CLAY LOAM-brown-stiff to hard (Fill)		2 6	1.20 B	22
		7		
	-5	12 12	10.00 S	13
		4		
		4 6	4.50 P	14
646.00				
CLAY LOAM-brown & gray-hard		5		
644.00	-10	8 9	5.10 B	17
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/22/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** GT

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765554.5, **Easting** 1072271.7

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-073
Station 898+00
Offset 25 ft Right
Ground Surface Elev. 653.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED ASPHALT & STONE				
652.10				11
SILT (A-6)-dark brown, gray & black-stiff (Fill)		4		
		2 5	1.90 B	25
650.10				
SILTY CLAY-dark brown & gray-stiff		3		
		5 5	1.90 B	23
	-5			
647.60				
CLAY LOAM-brown & gray-very stiff		3		
		4 5	2.80 B	21
		2		
		4 6	3.90 B	23
643.10	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/5/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765647.155, **Easting** 1072420.966

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-074
Station 899+52
Offset 62.9 ft Left
Ground Surface Elev. 652.42 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 644.422 ft ▼
Upon Completion ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CONCRETE	651.42				
CLAY LOAM-brown & black-very stiff (Fill)			2 7 9	2.50 P	14
TOPSOIL-black	649.42		4		
		-5	6 8	1.00 P	26
CLAY LOAM-brown & gray-stiff to very stiff	646.92		3		
			3 3	2.00 P	26
		▼	8		
	642.42	-10	4 4	1.75 P	31
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/11/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765524.538, **Easting** 1072574.982

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-075
Station 901+02
Offset 64.5 ft Right
Ground Surface Elev. 652.19 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" ASPHALT 651.44				
CLAY LOAM-brown & gray-hard (Fill)		3		
		3 6	4.20 B	21
649.19				
SILTY CLAY (A-6)-brown & gray-very stiff		4		
		8 8	1.80 B	20
	-5	7		
		7 10	2.20 B	18
		6		
		9 30	3.50 B	20
642.19	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/12/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765620.9, **Easting** 1072723.7

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-076
Station 902+54
Offset 27.2 ft Left
Ground Surface Elev. 651.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
650.20				
CRUSHED STONE-medium dense		14		
		8		12
		4		
648.20				
SILTY CLAY (A-7)-brown & gray-stiff				
		3		
		3	1.20	27
	-5	4	B	
645.70				
CLAY LOAM-brown & gray-stiff to very stiff				
		3		
		3	1.50	22
		3	P	
		4		
		5	2.20	23
641.20	-10	12	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/22/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765573.3, **Easting** 1072871.4

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-077
Station 904+00
Offset 25 ft Right
Ground Surface Elev. 650.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT, 6.0" CRUSHED STONE				
649.30		15		
CLAY LOAM-brown & gray-very stiff to hard		5 6	3.20 B	18
		3		
	-5	8 10	6.10 B	17
becoming gray @ -5.5'		3		
		7 7	4.50 P	15
		4		
640.80	-10	5 9	3.70 B	15
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/5/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765667.844, **Easting** 1073021.831

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-078
Station 905+53
Offset 64.8 ft Left
Ground Surface Elev. 650.01 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CONCRETE				
649.01				
CLAY LOAM-brown-stiff to very stiff		3		
		4 6	3.50 P	18
		5		
	-5	7 9	2.00 P	17
		5		
		3 7	1.50 P	16
		4		
		6 6	3.50 P	19
640.01	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date _____

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** _____

SECTION _____ **LOCATION** , **SEC.** , **TWP.** , **RNG.** , _____
Northing , **Easting**

COUNTY Will **DRILLING METHOD** _____ **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-079 **Station** _____ **Offset** ft **Ground Surface Elev.** _____ ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				8.0" ASPHALT
				CLAY LOAM-brown & gray-very stiff
	4			
	5 7	2.90 B	15	
	4			
-5	5 6	2.20 B	21	
	2			CLAY-gray-medium stiff
	3 3	0.50 B	19	
	3			
-10	3 3	0.80 B	19	
				End Of Boring @ -10.0'. Boring backfilled with cuttings.
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/12/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765639, **Easting** 1073309.4

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-080
Station 908+40
Offset 27 ft Left
Ground Surface Elev. 649.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
648.00				
CRUSHED STONE-medium dense		22		
		18		6
		12		
646.00				
CLAY LOAM-brown & gray-very stiff		7		
		8	2.20	14
	-5	7	B	
		6		
		9	3.50	17
		14	B	
		6		
		8	2.70	19
639.00	-10	10	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/22/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765592.1, **Easting** 1073471.1

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-081
Station 910+00
Offset 25 ft Right
Ground Surface Elev. 648.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 641.1 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
12.0" ASPHALT				
647.10				
18.0" CRUSHED STONE-dense	25			
	35		4	
645.60	20			
SILTY LOAM (A-6)-dark gray to black-very stiff				
	2			
	4	2.10	26	
-5	6	B		
642.60				
SILTY CLAY LOAM-brown & gray-soft to stiff	2			
▼	2	0.40	29	
	2	B		
	2			
	2	1.00	25	
638.10 -10	3	P		
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
-15				
-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 12/11/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765561.75, **Easting** 1073772.839

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-082
Station 913+01
Offset 64.8 ft Right
Ground Surface Elev. 647.29 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT	646.62				
SILTY CLAY-dark brown & black-very stiff			3		
			5 6	2.60 B	24
	644.29				
CLAY LOAM-brown-very stiff			3		
		-5	4 6	2.10 B	21
			4		
			7 8	2.70 B	19
			6		
	637.29	-10	9 13	3.50 B	20
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/22/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765610.9, **Easting** 1074070.8

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-083
Station 916+00
Offset 25 ft Right
Ground Surface Elev. 646.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
645.00				
18.0" CRUSHED STONE-dense		18		
		33		14
643.50		35		
SILTY LOAM (A-6)-dark gray to black-stiff				
		3		
		4	1.50	31
641.00	-5	6	B	
CLAY LOAM-brown & gray-very stiff to hard				
		5		
		6	3.30	20
		7	B	
		9		
		50/5"	4.20	21
636.00	-10		B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/11/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765579.494, **Easting** 1074375.035

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-084
Station 919+03
Offset 65.9 ft Right
Ground Surface Elev. 645.61 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 638.106 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" CONCRETE				
644.61				
CRUSHED ASPHALT-dense		20		
		24		7
		9		
642.61				
SILTY CLAY-black-very stiff				
		4		
		4	3.00	27
	-5	6	B	
640.11				
CLAY LOAM-brown & gray-stiff				
		2		
		3	1.00	21
	▼	3	P	
		1		
		4	1.50	21
635.61	-10	6	P	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/11/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 18 **LOCATION** SW 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1765645.202, **Easting** 1074976.393

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-085
Station 924+99
Offset 62.8 ft Right
Ground Surface Elev. 649.03 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" CONCRETE				
648.03				
CLAY LOAM (A-6)-dark brown & gray potted black-stiff to very stiff (Fill)		24		
		22 7	2.00 P	24
		4		
	-5	4 5	1.00 P	26
643.53				
SILTY CLAY LOAM-brown & gray-very loose (Fill)		1		
		1 1	0.50 P	26
		0		
		0 0		31
639.03	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/18/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765428.936, **Easting** 1065256.22

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-086
Station 827+80
Offset 71.1 ft Left
Ground Surface Elev. 639.63 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
638.63				3
LOAM (A-6)-dark brown to brown-stiff to hard (Fill)		5		
		4 8	4.00 P	11
		4		
	-5	9 9	4.90 B	18
		4		
		22 8	1.50 P	24
631.63				
SILTY CLAY-brown & gray-stiff		4		
		5 5	1.00 P	24
629.63	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765430.981, **Easting** 1064953.509

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-087
Station 307+99
Offset 11.4 ft Left
Ground Surface Elev. 638.83 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
637.83				
CRUSHED ASPHALT & STONE-medium dense		14		
		3 6		6
635.83				
CLAY LOAM-brown & gray-hard (Fill)		5		
		7 8	4.40 B	13
633.33	-5			
CLAY LOAM-brown & gray-stiff		2		
		4 4	1.25 B	21
630.83				
SILTY LOAM-brown & gray-loose		2		
		2 3		21
628.83	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/15/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765470.4, **Easting** 1064651

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-088 **Station** 311+00 **Offset** 20.1 ft Left **Ground Surface Elev.** 638.10 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
637.10				
CLAY LOAM-dark brown & gray spotted black-very stiff (Fill)		4 6 6	3.50 P	15
635.10				
CLAY LOAM-brown & gray-stiff to very stlff		4		
	-5	6 7	2.10 B	22
		1		
		2 3	1.70 B	20
630.10				
SILTY LOAM-brown & gray-medium dense		7		
		9 6		19
628.10	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765628.7, **Easting** 1064390.3

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-089
Station 314+00
Offset 10.7 ft Left
Ground Surface Elev. 637.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
636.60				
CLAY LOAM-brown & gray spotted black-very stiff (Fill)		7		
		4 6	2.00 P	16
634.60				
CLAY LOAM-brown & gray-stiff to very stiff		4		
		6 9	2.20 B	16
	-5	3		
		5 4	1.30 B	24
629.60				
SILTY SAND with Gravel-loose		3		
		4 5		19
627.60	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765861.9, **Easting** 1064201.6

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-090 **Station** 316 **Offset** 0 ft **Ground Surface Elev.** 640.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 633 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
639.00				
CRUSHED STONE-medium dense		10		
		16		4
		10		
637.00				
CLAY LOAM-brown & gray-very stiff		2		
		7	3.50	16
	-5	6	B	
634.50				
CLAYEY GRAVEL with Sand-brown-loose to medium dense		12		
	▼	9		14
		5		
		2		
		4		24
630.00	-10	5		
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1766040.5, **Easting** 1063970.1

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-091
Station 319+00
Offset 0 ft
Ground Surface Elev. 640.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
639.90				
CLAY LOAM-brown-very stiff to hard		9		
		5 6	4.00 B	16
		2		
	-5	2 4	1.30 B	18
		6		
		6 7	2.50 P	17
		4		
630.90	-10	7 9	3.40 B	17
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765908.1, **Easting** 1063479.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-092
Station 404+00
Offset 0 ft
Ground Surface Elev. 641.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 635.9 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT			
640.40			
CLAY LOAM-dark brown & gray-very stiff (Fill)	4		
	5 6	2.00 P	28
638.40			
TOPSOIL-black			
	9		
	6 4	3.00 P	24
-5			
635.90 ▼			
SILTY CLAY-dark brown & gray-stiff			
	2		
	2 3	1.40 B	28
632.90			
Drillers Observation: Unknown Obstruction	50/0"		
			NR
631.40 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

ROUTE FAI Route 80 from Chicago Street to US Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765660.1, **Easting** 1063310.8

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-093 **Station** 407+00 **Offset** 0 ft **Ground Surface Elev.** 642.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 641 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT			
641.00 ▼			
CLAYEY GRAVEL & STONE-brown-very loose (Fill)	4		
	1 2		10
639.00			
CLAY LOAM-brown-very stiff	3		
	5 7	3.00 P	18
-5			
	3		
	7 10	3.20 B	23
	3		
	8 11	3.00 P	25
632.00 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765455.6, **Easting** 1063090

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-094
Station 410+00
Offset 12 ft Left
Ground Surface Elev. 643.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 634.5 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT			
642.00			
CLAY LOAM-brown-very stiff	9		
	6 6	3.40 B	22
	3		
-5	5 5	2.25 P	18
	3		
	8 10	3.50 B	22
635.00			
CLAY-brown-stiff ▼	4		
	5 5	1.00 P	17
633.00 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R30E, 3rd **PM**, **Northing** 1765364.2, **Easting** 1062803.6

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-095
Station 413+00
Offset 0 ft
Ground Surface Elev. 643.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT				
642.10				
CRUSHED ASPHALT & STONE-medium dense		30		
		4 6		4
640.10				
CLAY LOAM-brown & gray-very stiff		4		
		7 10	2.50 P	26
	-5			
637.60				
SILT-brown-medium dense		4		
		8 11		18
635.10				
CLAY LOAM-gary-very stiff		5		
		7 10	3.00 P	18
633.10	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765199.792, **Easting** 1062415.856

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-096
Station 100+37
Offset 6.9 ft Right
Ground Surface Elev. 647.47 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
646.47				
CRUSHED ASPHALT-medium dense		40		
		7 8		4
644.47				
CLAY LOAM-brown-very stiff		6		
		7 9	3.10 B	21
	-5			
		3		
		4 6	3.00 P	18
		16		
		10 8	2.00 P	16
637.47	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765195.107, **Easting** 1062715.542

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-097
Station 103+36
Offset 0 ft
Ground Surface Elev. 643.81 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT	642.81				
CRUSHED ASPHALT-medium dense			22		
			6 7		2
	640.81				
CLAY LOAM-brown-very stiff to hard			4		
			7 9	3.50 B	21
		-5			
			2		
			3 5	1.80 B	20
			3		
			4 5	4.20 B	20
	633.81	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.					
		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765145.583, **Easting** 1063014.609

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-098
Station 106+43
Offset 20.9 ft Right
Ground Surface Elev. 641.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT			
640.00			
CLAY LOAM with Stone-brown-hard (Fill)	4		
	5 6	4.90 B	12
	3		
-5	3 5	5.30 B	13
	7		
	5 10	8.00 B	12
633.00			
SILTY CLAY-dark brown-stiff	6		
	7 9	1.50 B	23
631.00 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765043.856, **Easting** 1063292.868

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. SGB-099
Station 109+08
Offset 4 ft Right
Ground Surface Elev. 634.67 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 627.673 ft ▼
Upon Completion 628.173 ft ▽
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" TOPSOIL 634.34				23
		HA		
CLAY LOAM-dark brown & gray-very stiff			2.50 P	20
		HA		
			2.75 P	21
630.67				
SILTY SAND with GRAVEL-brown		HA		
	-5			23
628.67				
CLAY-brown & gray-stiff ▽ ▼		HA		
			1.00 P	31
626.67				
SILTY SAND-brown		HA		
				20
624.67	-10			
End Of Boring @ -10.0'.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1764917.93, **Easting** 1063576.885

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. SGB-100
Station 112+53
Offset 19.3 ft Left
Ground Surface Elev. 634.35 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 628.35 ft ▼
Upon Completion 628.35 ft ▽
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	HA			CLAY LOAM-brown & gray-very stiff
		3.50 P	13	
	HA			
		2.75 P	16	
630.35				
	HA			SILTY SAND with GRAVEL-brown
-5			18	
628.35 ▼ ▽				
	HA			CLAY-brown & gray-stiff
		1.50 P	27	
626.35				
				Auger Refusal @ -8.0'. End Of Boring.
-10				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SE 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1764767.7, **Easting** 1063816.2

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. SGB-101
Station 115+53
Offset 0 ft
Ground Surface Elev. 641.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 637.7 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-dark brown to black		HA		
			1.25 P	22
639.70				
CLAY LOAM-brown & gray-stiff to very stiff		HA		
			1.50 P	22
	▼	HA		
	-5		1.75 P	28
		HA		
			2.50 P	17
becoming gray @ -8.0'		HA		
			1.50 P	12
631.70	-10			
End Of Boring @ -10.0'.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/16/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 14 **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1764837.423, **Easting** 1064042.879

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. -
Station -

BORING NO. SGB-102
Station 202+05
Offset 4.1 ft Right
Ground Surface Elev. 633.72 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 623.724 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 633.22		HA		
CLAY LOAM-brown & gray-stiff to very stiff				21
		HA		
			1.50 P	20
		HA		
	-5		1.25 P	17
		HA		
			1.00 P	17
becoming gray @ -8.0'		HA		
			2.00 P	22
623.72 ▼	-10			
End Of Boring @ -10.0'.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/9/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1764989.33, **Easting** 1064291.751

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-103
Station 204+96
Offset 6.1 ft Right
Ground Surface Elev. 637.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
636.20				18
CLAY LOAM with Stone-brown spotted black-very stiff to hard (Fill)		3		
		5 6	2.50 B	18
		9		
		10 9	4.90 B	20
	-5			
631.70				
SILTY CLAY-dark brown & gray-stiff to very stiff		5		
		7 7	2.80 B	25
		3		
		5 5	1.40 B	24
627.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

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SOIL BORING LOG

Date 12/9/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** LP

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765150.092, **Easting** 1064549.2

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-104
Station 208+00
Offset 5.1 ft Right
Ground Surface Elev. 635.19 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
634.19				3
CLAY LOAM with Stone-brown & gray-very stiff (Fill)		4 6 7	3.50 B	17
632.19				
SILTY CLAY-black-stiff to hard		5		
	-5	7 8	4.20 B	24
becoming gray @ -5.5'		2		
		2 2	1.40 B	20
627.19				
SANDY LOAM-brown-loose		2		
		2 3		24
625.19	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 12/3/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**,
Northing 1765262.728, **Easting** 1064828.334

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-105
Station 211+03
Offset 0.2 ft Right
Ground Surface Elev. 638.88 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT	638.21				
CLAY LOAM-dark brown & gray spotted black-very stiff (Fill)			5		
			6 5	3.50 B	18
			4		
		-5	6 6	2.50 P	11
	633.38				
CLAY LOAM-brown & gray-stiff			3		
			3 4	1.70 B	21
	630.88				
SILTY CLAY LOAM-brown & gray-medium stiff			2		
			1 1		21
	628.88	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.		-15			
		-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/18/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 13 **LOCATION** SE 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1764468.7, **Easting** 1063892

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-106
Station 51+63
Offset 18.7 ft Right
Ground Surface Elev. 639.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE				
638.50				3
SILTY CLAY-black-very stiff (Fill)		5		
Chemical Odor		7 8	3.40 B	20
636.50				
CLAY LOAM-dark brown-stiff to very stiff (Fill)		4		
		6 7	2.50 P	23
	-5			
634.00				
CLAY LOAM-brown & gray-stiff		2		
		3 4	1.75 P	25
		1		
		2 3	1.40 B	25
629.50	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765068.5, **Easting** 1063744.7

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-107 **Station** 57+64 **Offset** 13.6 ft Left **Ground Surface Elev.** 656.30 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE-medium dense	655.30			3
CLAY LOAM-brown-very stiff (Fill)		4		
		12	2.60	20
		20	B	
	653.30			
SAND & GRAVEL-brown-loose to dense (Fill)		10		
		15		5
	-5	22		
		13		
		7		3
		2		
		10		
		18		5
	646.30 -10	37		
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1765705.1, **Easting** 1063859.6

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-108
Station 64+00
Offset 17.5 ft Right
Ground Surface Elev. 652.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
651.20				
SILTY CLAY-dark brown-stiff (Fill)		6		
		3 3	0.30 B	25
becoming black @ -3.0'		3		
	-5	4 6	1.50 P	25
646.70				
SAND & GRAVEL-brown-medium dense (Fill)		5		
		6 5		6
		10		
		15 11		3
642.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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

SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 13 **LOCATION** SW 1/4, **SEC.** 13, **TWP.** T35N, **RNG.** R10E, 3rd **PM**, **Northing** 1766003.8, **Easting** 1063803

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-109 **Station** 67+00 **Offset** 31.4 ft Left **Ground Surface Elev.** 643.20 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 642.53				
CRUSHED STONE-loose		11		
		3 3		6
640.20				
CLAY LOAM-brown-stiff (Fill)		3		
		4 5	1.30 B	27
	-5			
		2		
		3 3	1.50 P	18
		3		
		3 4	1.00 P	18
633.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 17 **LOCATION** SW 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1764925.79, **Easting** 1074349.7

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-110
Station 50+79
Offset 18.6 ft Right
Ground Surface Elev. 657.15 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
12.0" ASPHALT				
656.15				
CRUSHED STONE-dense	32			
	20		3	
	13			
654.15				
CLAY LOAM-brown & gray-hard (Fill)	9			
	8	4.50	16	
-5	13	P		
	20			
	25	4.50	8	
	17	P		
649.15				
TOPSOIL-black-very stiff	3			
	4	2.50	28	
647.15 -10	6	P		
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1766042.5, **Easting** 1074279.9

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-111 **Station** 61+92 **Offset** 16.4 ft Left **Ground Surface Elev.** 655.00 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
654.00				42
CLAY LOAM w/ Stone-dark gray-very stiff (Fill)		3		
		4	2.00	20
		5	P	
652.00				
SANDY LOAM (A-2-4)-brown-loose to medium dense (Fill)		5		
		7		9
	-5	9		
		4		
		4		12
		6		
		4		
		3		9
645.00	-10	4		
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1766342.5, **Easting** 1074270.5

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. SGB-112 **Station** 64+93 **Offset** 16.8 ft Left **Ground Surface Elev.** 646.40 ft

Surface Water Elev. n/a ft **Stream Bed Elev.** n/a ft

Groundwater Elev.: **First Encounter** Dry ft **Upon Completion** Dry ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE-medium dense				3
		8		
		12		5
		5		
	643.40			
CLAY LOAM-brown-very stiff				
		2		
		3	2.50	19
	-5	5	P	
becoming gray @ -5.5'				
		4		
		6	2.25	18
		6	P	
		3		
		5	2.75	19
	636.40 -10	7	P	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SOIL BORING LOG

Date 11/24/21

FAI Route 80 from Chicago Street to US

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** MM

SECTION 18 **LOCATION** SE 1/4, **SEC.** 18, **TWP.** T35N, **RNG.** R11E, 3rd **PM**, **Northing** 1765231.1, **Easting** 1074304

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. SGB-113
Station 53+81
Offset 16.5 ft Left
Ground Surface Elev. 661.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT				
660.70				
CRUSHED STONE-medium dense		13		
		10		4
		4		
658.70				
CLAY LOAM-brown-very stiff to hard		13		
		4	2.20	20
	-5	6	B	
		3		
		4	2.00	20
		6	P	
		7		
		9	4.20	16
651.70	-10	9	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 11/22/22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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PAVEMENT CORE SUMMARY

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

CORE NO.	THICKNESS (in.)	MATERIAL DESCRIPTION
C-01		Station: 715+04 Offset: 53.3' Left Total Thickness: 18.0"
	2.75	ASPHALT-well consolidated, fine to medium course aggregate.
	1.75	ASPHALT-well consolidated, fine to medium course aggregate.
	13.5	CONCRETE-well consolidated, 1" dia rebar @ 10" below.
	18.0+	SUBGRADE-CLAY LOAM-brown & gray
C-02		Station: 750+75 Offset: 55.5' Left Total Thickness: 14.75"
	9.25	ASPHALT-poorly consolidated @ base, fine to medium course aggregate.
	5.5	ASPHALT-poorly consolidated @ base, fine to medium course aggregate.
	14.75+	SUBGRADE-CLAY LOAM-brown & black
C-03		Station: 779+97 Offset: 57.0' Right Total Thickness: 12.0"
	3.25	ASPHALT-well consolidated, fine to medium course aggregate.
	1.75	ASPHALT-well consolidated, fine to medium course aggregate.
	1.75	ASPHALT-very poorly consolidated, fine to medium course aggregate.
	5.25	ASPHALT-very poorly consolidated @ base, fine to medium course aggregate.
	12.0+	SUBBASE-SAND & GRAVEL
C-04		Station: 780+00 Offset: 48.1' Left Total Thickness: 8.0"
	5.75	ASPHALT-well consolidated, fine to medium course aggregate.
	2.25	ASPHALT-well consolidated, fine to medium course aggregate.
	10.0	SUBBASE-SAND & GRAVEL
	18.0+	SUBGRADE-CLAY LOAM-brown & gray
C-05		Station: 806+00 Offset: 61.7' Right Total Thickness: 17.0"
	1.5	ASPHALT-well consolidated, fine to medium course aggregate.
	3.5	ASPHALT-well consolidated, medium course aggregate.
	3.0	ASPHALT-poorly consolidated, fine to medium course aggregate, poorly bonding @ base.
	2.0	ASPHALT-well consolidated, medium course aggregate.
	7.0	ASPHALT-poorly consolidated @ base, medium course aggregate.
	17.0	SUBBASE-CRUSHED STONE
	34.0+	SUBGRADE-SANDY CLAY-brown
C-06		Station: 806+00 Offset: 61.5' Left Total Thickness: 16.0"
	6.5	ASPHALT-well consolidated, fine to medium course aggregate.
	9.5	ASPHALT-well consolidated, fine to medium course aggregate.
	3.0	SUBBASE-SAND & GRAVEL
	19.0+	SUBGRADE-CLAY LOAM-brown & gray
C-07		Station: 832+00 Offset: 61.1' Right Total Thickness: 18.0"
	2.0	ASPHALT-well consolidated, fine to medium course aggregate.
	3.0	ASPHALT-well consolidated, medium course aggregate.
	4.0	ASPHALT-poorly consolidated, fine to medium course aggregate, poorly bonding @ base.
	7.0	ASPHALT-poorly consolidated, medium course aggregate, poorly bonding @ top & bottom.
	2.0	ASPHALT-poorly consolidated, medium course aggregate or bonding and detriorated @ base.
	10.0	SUBGRADE-CLAY-black
	28.0+	SUBGRADE-CLAY-brown & gray
C-08		Station: 832+00 Offset: 61.2' Left Total Thickness: 14.75"
	5.25	ASPHALT-well consolidated, fine to medium course aggregate.
	1.5	ASPHALT-well consolidated, fine to medium course aggregate.
	8.0	ASPHALT-well consolidated, fine to medium course aggregate.
	3.0	SUBBASE-SAND & GRAVEL
	17.75+	SUBGRADE-CLAY LOAM-brown & gray

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PAVEMENT CORE SUMMARY

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

CORE NO.	THICKNESS (in.)	MATERIAL DESCRIPTION
C-09		Station: 858+00 Offset: 62.5' Right Total Thickness: 17.0"
	2.0	ASPHALT-well consolidated, fine to medium course aggregate.
	2.0	ASPHALT-well consolidated, medium course aggregate.
	2.0	ASPHALT-well consolidated, medium course aggregate.
	3.0	ASPHALT-well consolidated, fine to medium course aggregate.
	8.0	ASPHALT-well consolidated, medium course aggregate.
	4.5	SUBBASE-Crushed Stone
	21.5+	SUBGRADE-CLAY-brown & gray
C-10		Station: 858+00 Offset: 61.3' Left Total Thickness: 17.0"
	9.25	ASPHALT-well consolidated, fine to medium course aggregate.
	7.75	ASPHALT-well consolidated, fine to medium course aggregate.
	11.0	SUBGRADE-CLAY LOAM with Gravel-black
	28.0+	SUBGRADE-CLAY LOAM-brown & gray
C-11		Station: 884+00 Offset: 61.3' Right Total Thickness: 16.0"
	1.5	ASPHALT-well consolidated, fine to medium course aggregate.
	3.5	ASPHALT-well consolidated, medium course aggregate.
	2.5	ASPHALT-well consolidated, fine to medium course aggregate.
	8.5	CONCRETE-well consolidated
	3.5	SUBBASE-Crushed Stone
	19.5+	SUBGRADE-SANDY CLAY-brown
C-12		Station: 884+00 Offset: 60.6' Left Total Thickness: 14.0"
	2.0	ASPHALT-well consolidated, fine to medium course aggregate.
	2.5	ASPHALT-well consolidated, medium course aggregate.
	2.5	ASPHALT-well consolidated, fine to medium course aggregate.
	7.0	CONCRETE-well consolidated
	3.0	SUBBASE-Sand & Gravel-brown
	17.0+	SUBGRADE-CLAY-brown & gray
C-13		Station: 910+00 Offset: 61.1' Right Total Thickness: 15.0"
	2.0	ASPHALT-well consolidated, fine to medium course aggregate.
	3.0	ASPHALT-well consolidated, medium course aggregate.
	2.50	ASPHALT-well consolidated, fine to medium course aggregate, poorly bonding @ base.
	7.50	CONCRETE-well consolidated
	2.0	SUBBASE-Crushed Stone
	17.0+	SUBGRADE-CLAY with GRAVEL-gray
C-14		Station: 910+00 Offset: 60.8' Left Total Thickness: 13.0"
	1.50	ASPHALT-well consolidated, fine to medium course aggregate.
	2.50	ASPHALT-well consolidated, medium course aggregate.
	2.0	ASPHALT-well consolidated, fine to medium course aggregate, poorly bonding @ base.
	7.0	CONCRETE-well consolidated
	20.0+	SUBGRADE-CLAY-brown & gray

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PAVEMENT CORE PHOTO LOG

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-01 Core Location: Station: 715+04 Offset: 53.3' Left

Core No.: C-02 Core Location: Station: 750+75 Offset: 55.5' Left

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PAVEMENT CORE PHOTO LOG

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-03 Core Location: Station: 779+97 Offset: 57.0' Right

Core No.: C-04 Core Location: Station: 780+00 Offset: 48.1' Left

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PAVEMENT CORE PHOTO LOG

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-05 Core Location: Station: 806+00 Offset: 61.7' Right

Core No.: C-06 Core Location: Station: 806+00 Offset: 61.5' Left

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PAVEMENT CORE PHOTO LOG

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-07 Core Location: Station: 832+00 Offset: 61.1' Right

Core No.: C-08 Core Location: Station: 832+00 Offset: 61.2' Left

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PAVEMENT CORE PHOTO LOG

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-09 Core Location: Station: 858+00 Offset: 62.5' Right

Core No.: C-10 Core Location: Station: 858+00 Offset: 61.3' Left

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PAVEMENT CORE PHOTO LOG

Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-11 Core Location: Station: 884+00 Offset: 61.3' Right

Core No.: C-12 Core Location: Station: 884+00 Offset: 60.6' Left

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PAVEMENT CORE PHOTO LOG

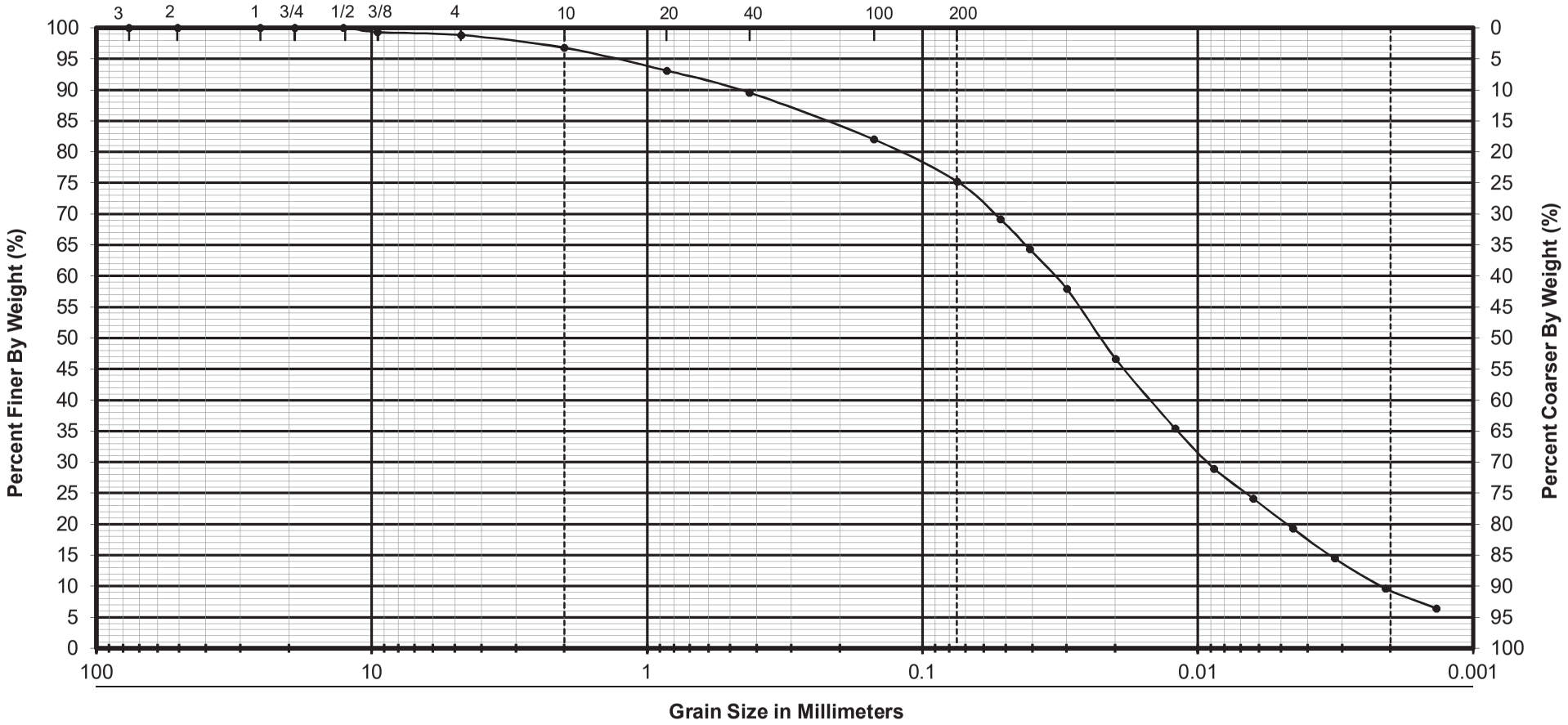
Project: I-80 Phase 2 GSI Job No.: 20012
Location: FAI Route 80 from Chicago Street to US Route 30 Date: 8/6/2021
County: Will Cored By: TZ
Client: EXP Checked By: AJP

Core No.: C-13 Core Location: Station: 910+00 Offset: 61.1' Right

Core No.: C-14 Core Location: Station: 910+00 Offset: 60.8' Left

APPENDIX E

LAB DATA



GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-009	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	27	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	16	brown		Will County, Illinois
Plasticity Index	11	Group Index	6	
Test By	MT	% Gravel	3.2	
Date	4/21/22	% Sand	21.5	
Reviewed By	RS	% Silt	65.6	
Job No	20012	% Clay	9.6	

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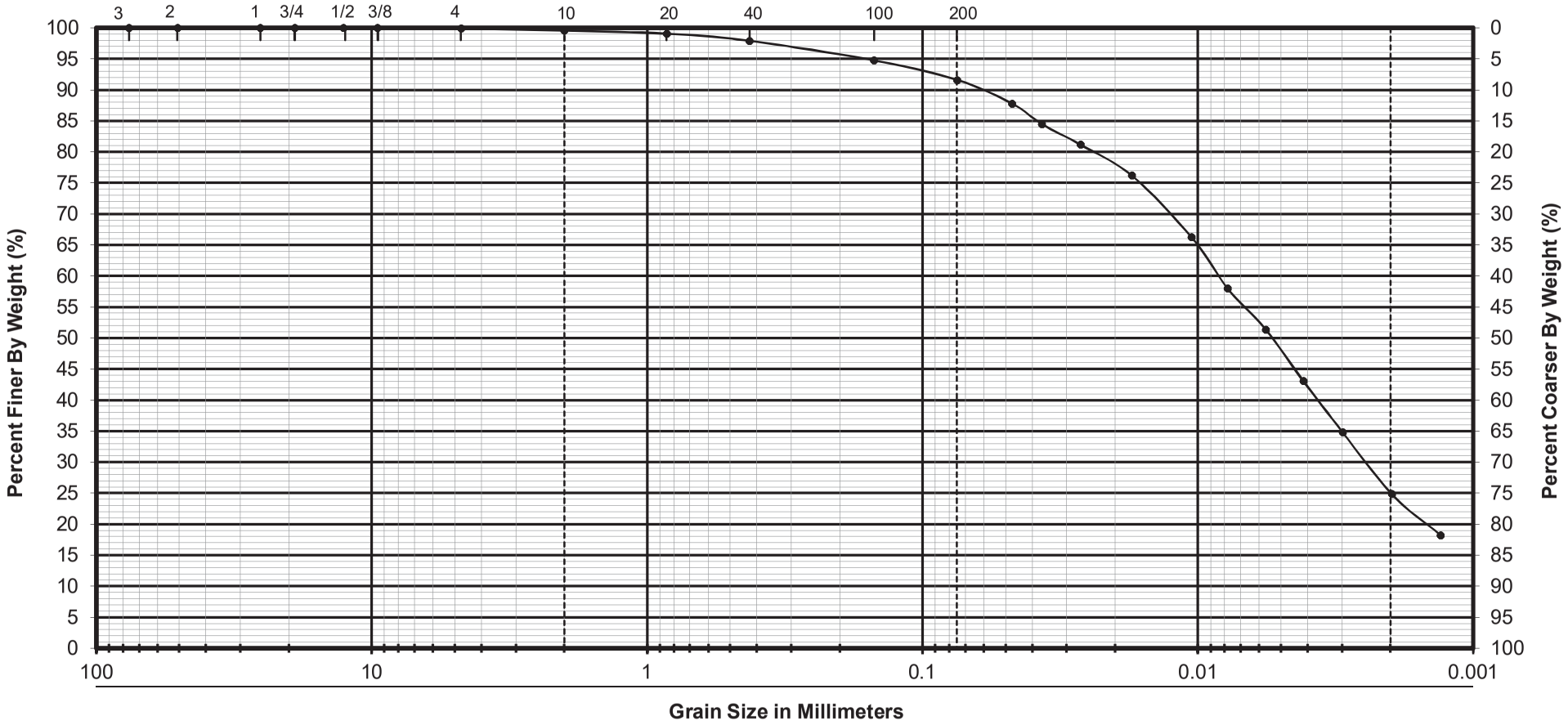

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-010	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	38	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	22	brown/gray		Will County, Illinois
Plasticity Index	16	Group Index	15	
Test By	MT	% Gravel	0.4	
Date	4/21/22	% Sand	8.0	
Reviewed By	RS	% Silt	66.8	
Job No	20012	% Clay	24.8	

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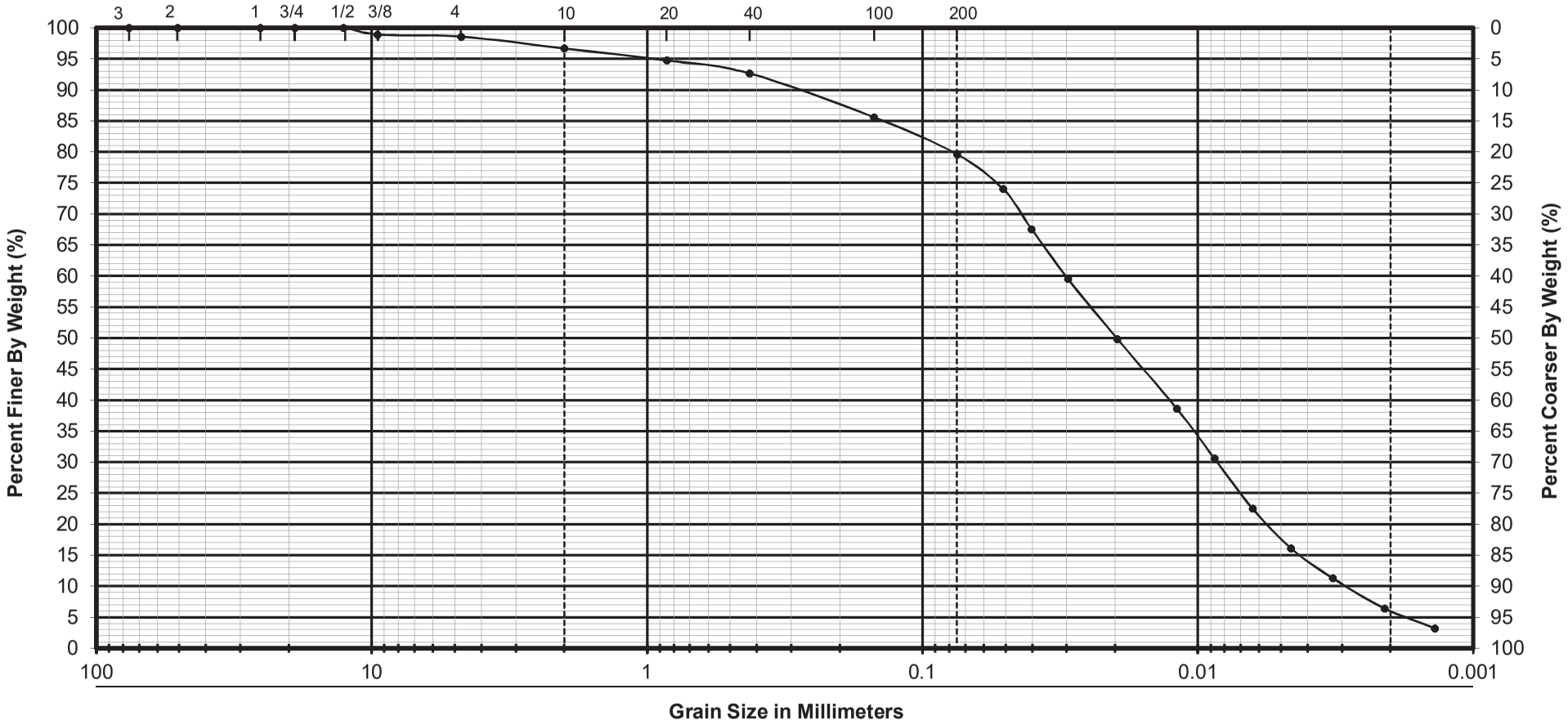

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-016	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		
Liquid Limit	36	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	19	brown/gray		Will County, Illinois
Plasticity Index	17	Group Index	13	
Test By	MT	% Gravel	3.3	
Date	4/21/22	% Sand	17.1	
Reviewed By	RS	% Silt	73.2	
Job No	20012	% Clay	6.4	

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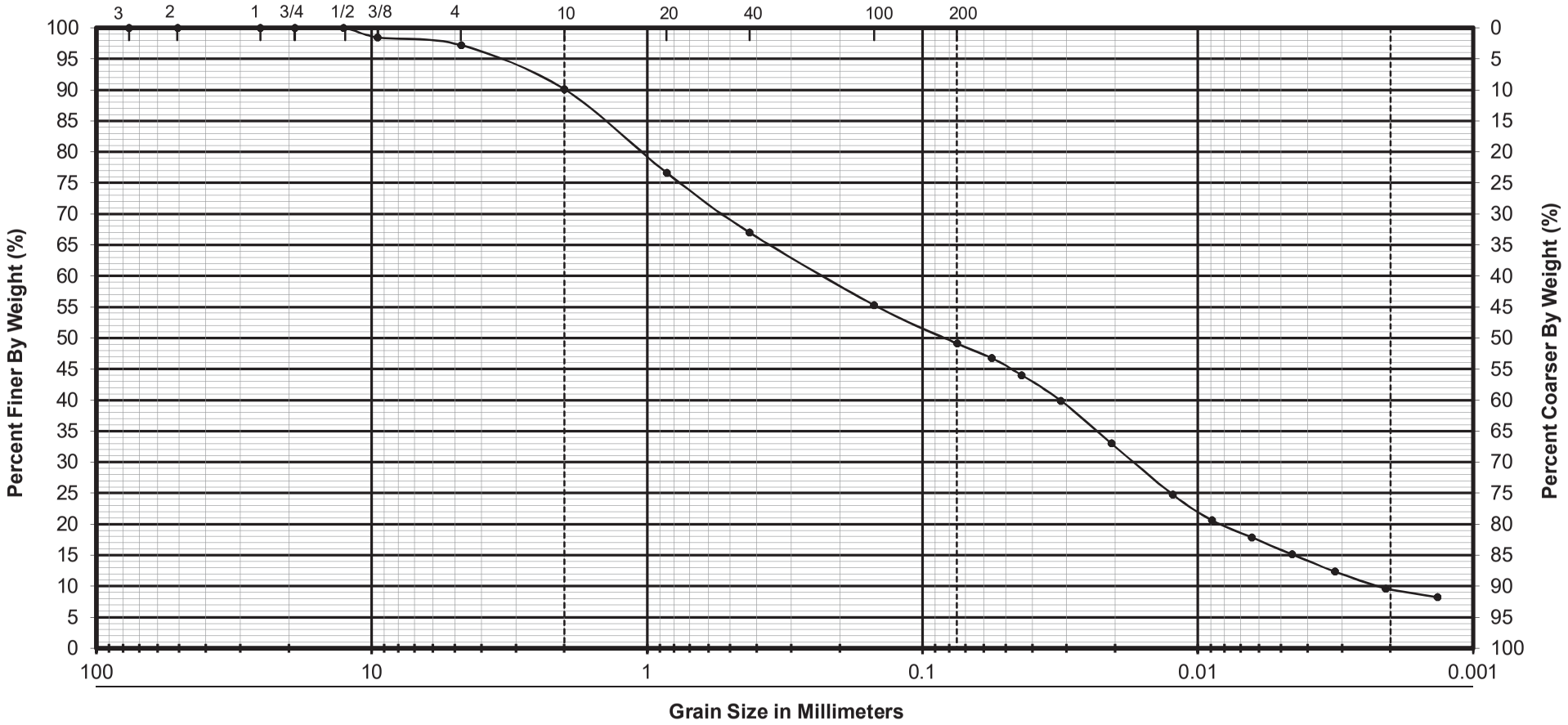

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-018	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	5			
Depth	8.5'-10.0'	SANDY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	29	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	18	brown		Will County, Illinois
Plasticity Index	11	Group Index	2	
Test By	MT	% Gravel	9.9	
Date	2/4/22	% Sand	41.0	
Reviewed By	RS	% Silt	39.5	
Job No	20012	% Clay	9.6	

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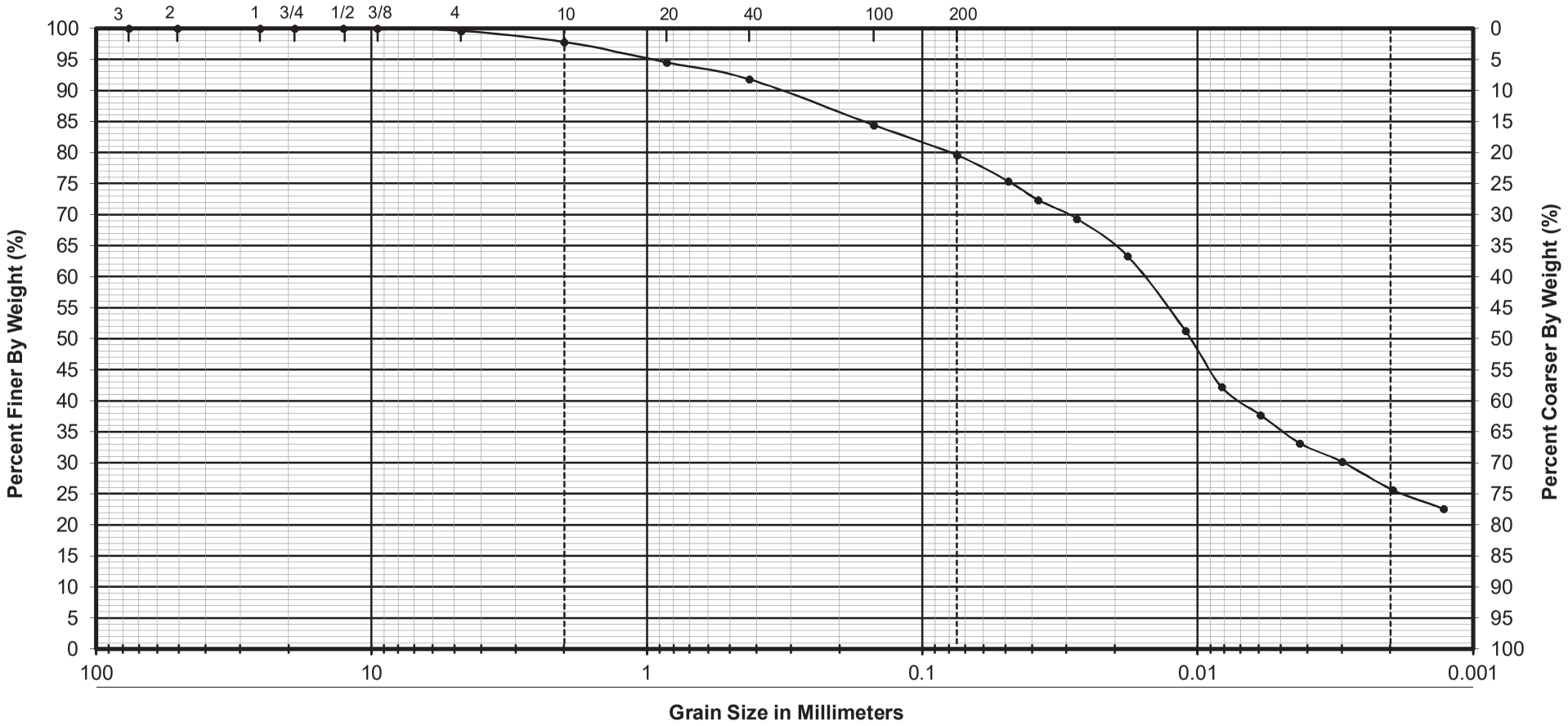

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-019	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	31	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	16	brown/gray		Will County, Illinois
Plasticity Index	15	Group Index	10	
Test By	MT	% Gravel	2.2	
Date	2/4/22	% Sand	18.2	
Reviewed By	RS	% Silt	54.0	
Job No	20012	% Clay	25.6	

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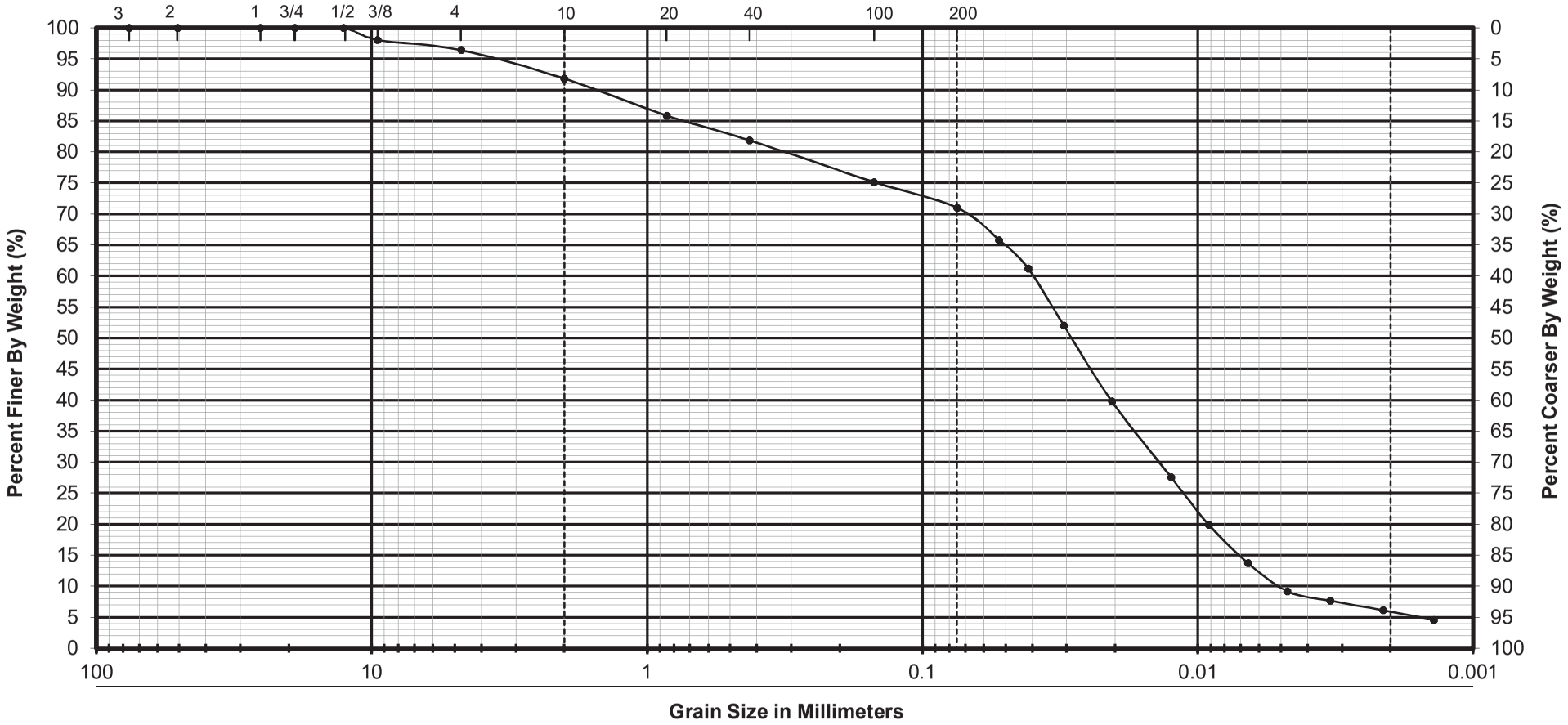

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-025	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	26	A-4		Roadway Reconstruction and Widening I-80
Plastic Limit	16	brown/gray		Will County, Illinois
Plasticity Index	10	Group Index	5	
Test By	MT	% Gravel	8.2	
Date	4/21/22	% Sand	20.8	
Reviewed By	RS	% Silt	64.9	
Job No	20012	% Clay	6.1	

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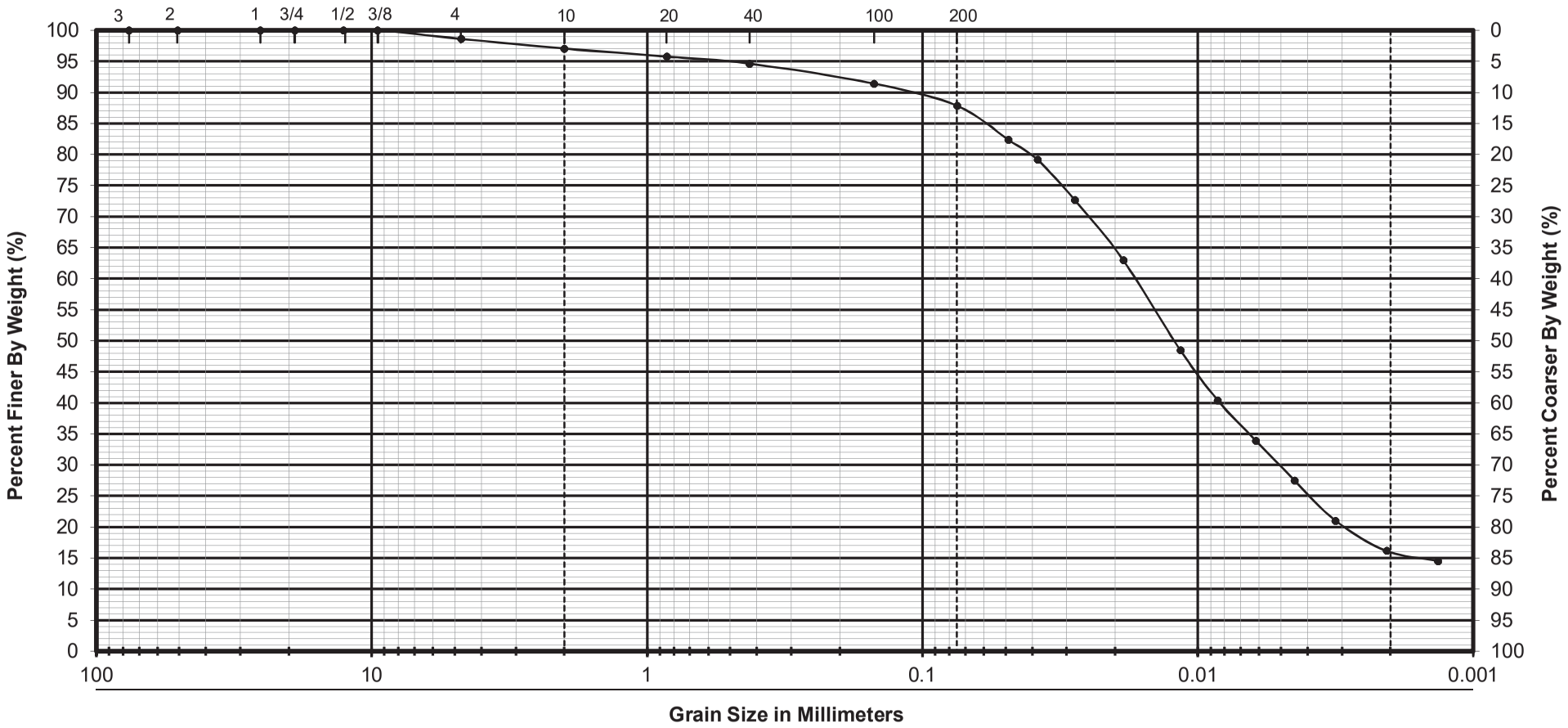

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-026	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	31	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	18	brown/gray		Will County, Illinois
Plasticity Index	13	Group Index	10	
Test By	MT	% Gravel	2.9	
Date	4/21/22	% Sand	9.2	
Reviewed By	RS	% Silt	71.7	
Job No	20012	% Clay	16.1	

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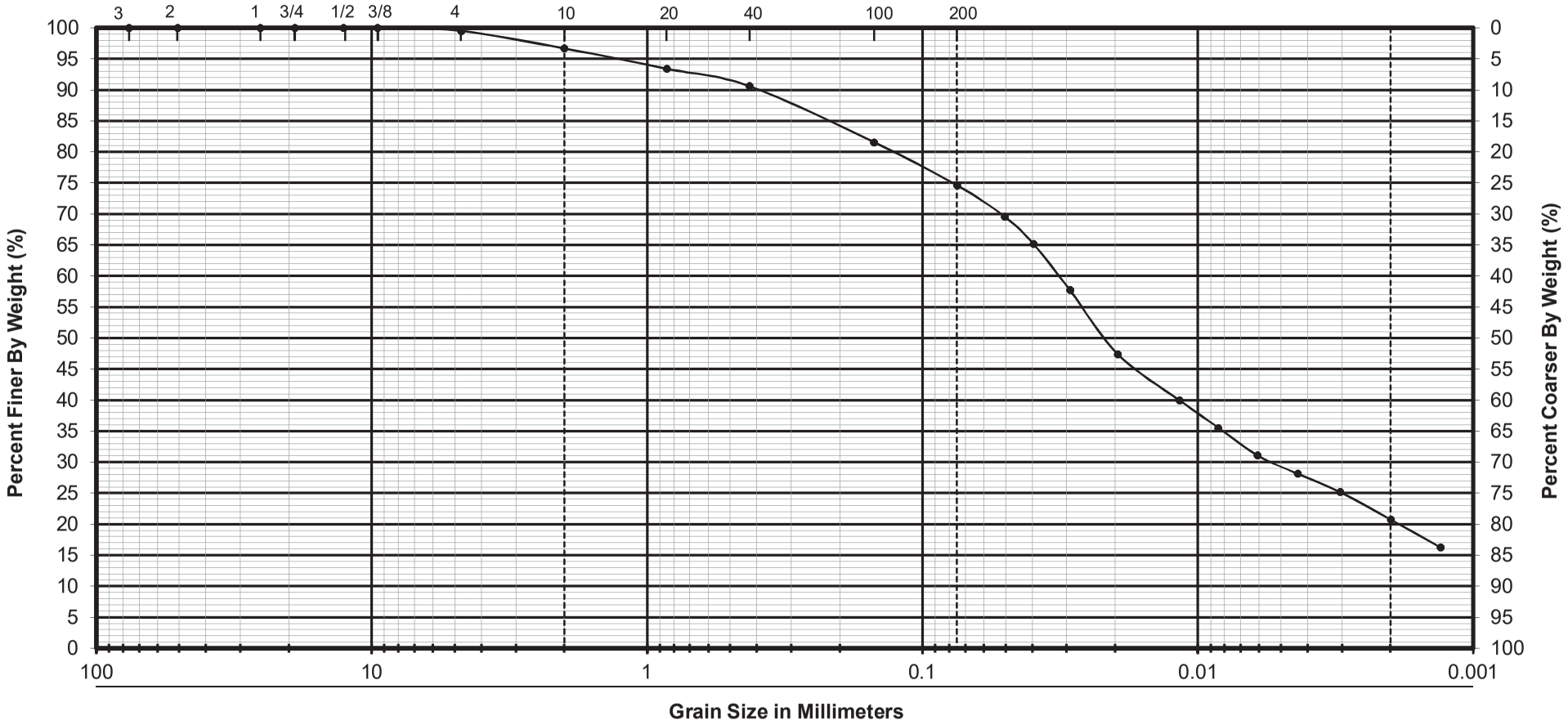

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-035	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	26	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	15	brown		Will County, Illinois
Plasticity Index	11	Group Index	6	
Test By	MT	% Gravel	3.3	
Date	2/4/22	% Sand	22.1	
Reviewed By	RS	% Silt	53.9	
Job No	20012	% Clay	20.7	

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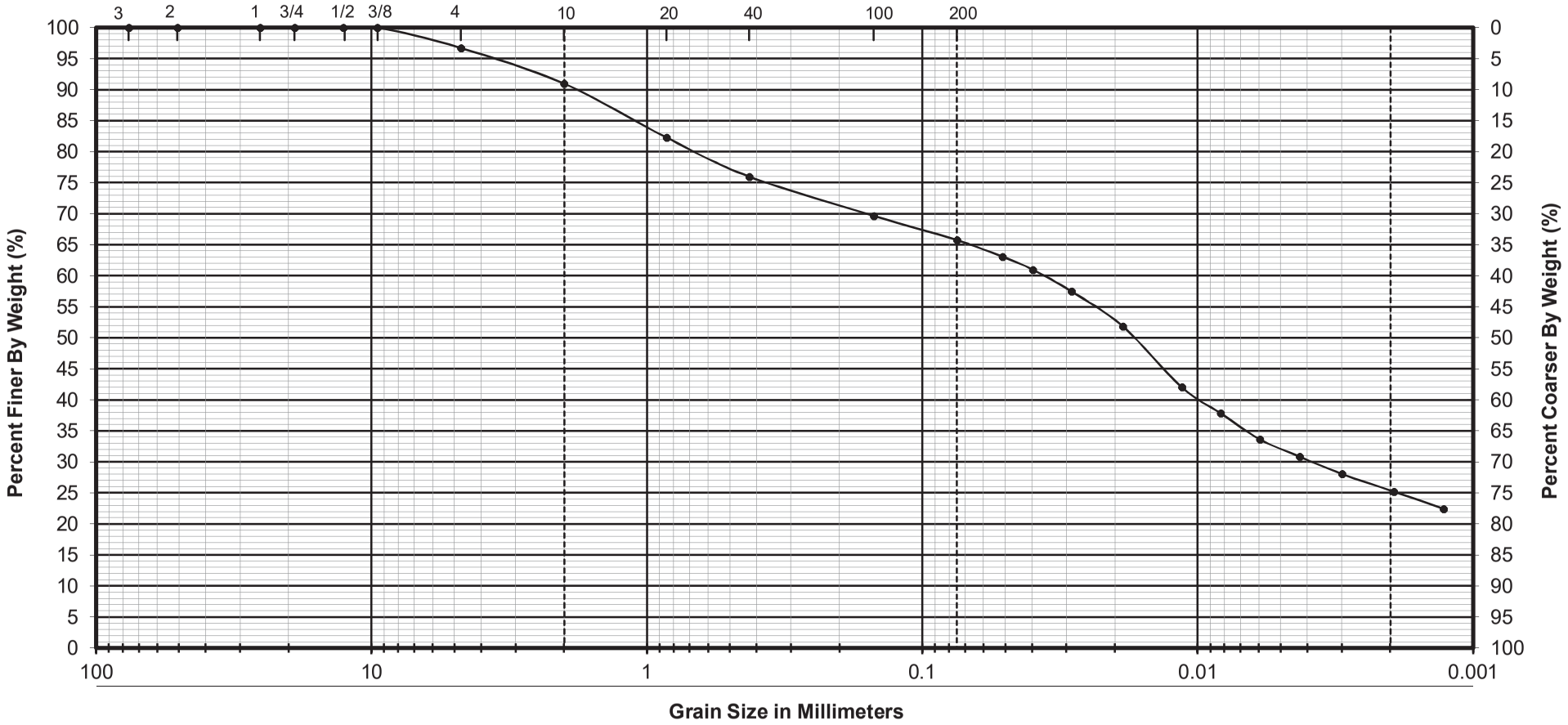

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-036	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	4			
Depth	6.0'-7.5'	CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	40	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	21	brown		Will County, Illinois
Plasticity Index	19	Group Index	11	
Test By	MT	% Gravel	9.0	
Date	2/4/22	% Sand	25.2	
Reviewed By	RS	% Silt	40.5	
Job No	20012	% Clay	25.2	

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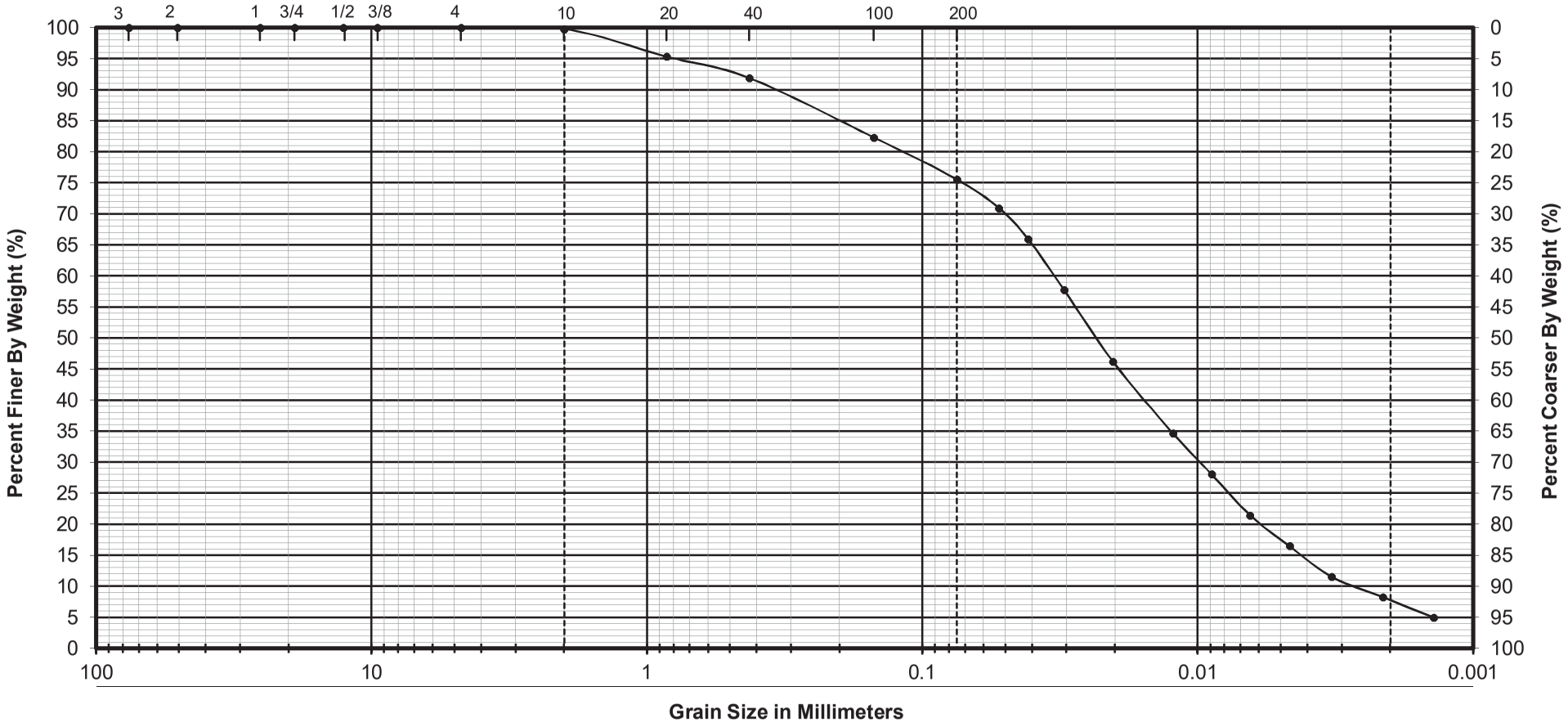

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-045	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	22	A-4		Roadway Reconstruction and Widening I-80
Plastic Limit	14	gray		Will County, Illinois
Plasticity Index	8	Group Index	3	
Test By	MT	% Gravel	0.2	
Date	4/21/22	% Sand	24.2	
Reviewed By	RS	% Silt	67.3	
Job No	20012	% Clay	8.2	

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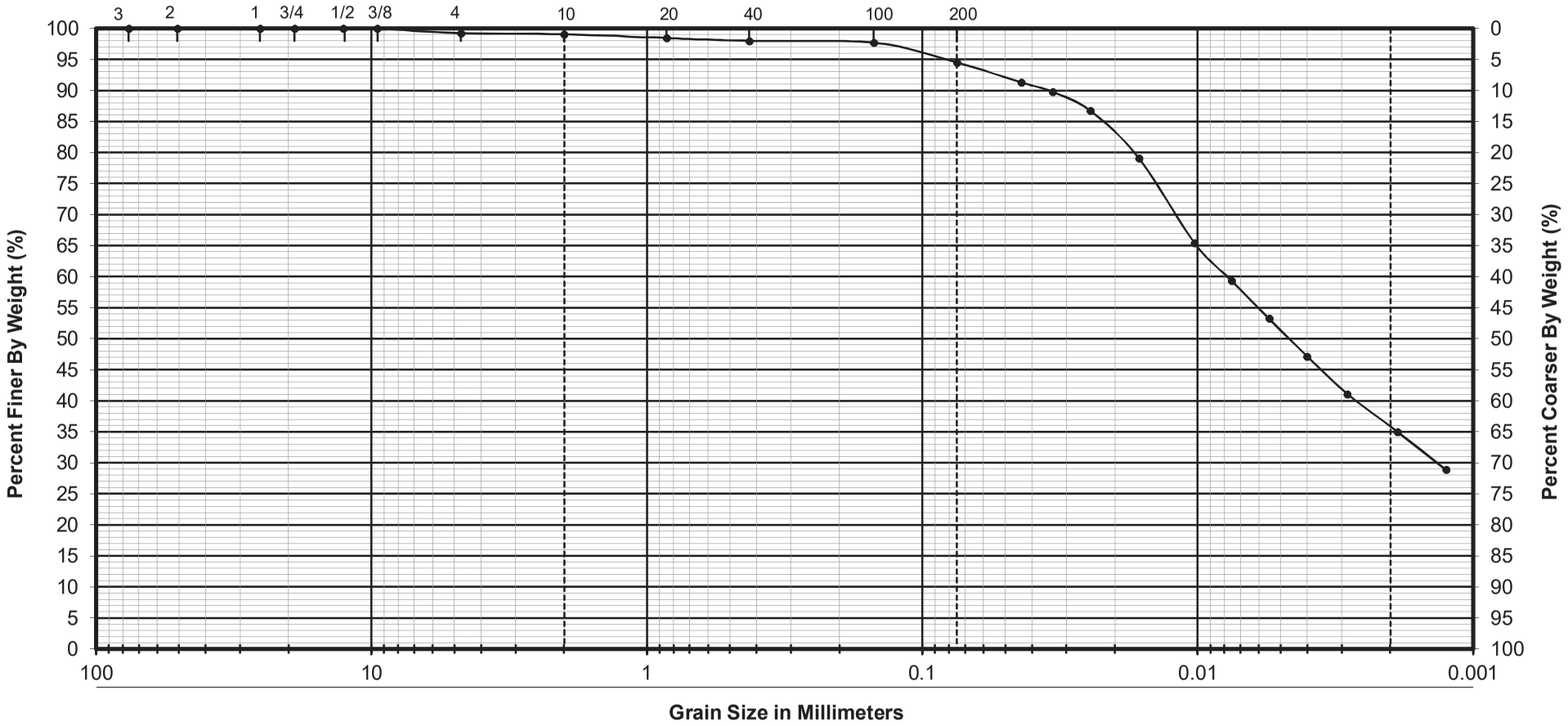

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-046	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	5			
Depth	8.5'-10.0'	SILTY CLAY		Interstate Highway 80 (I-80)
Liquid Limit	39	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	22	brown/gray		Will County, Illinois
Plasticity Index	17	Group Index	17	
Test By	MT	% Gravel	0.9	
Date	2/4/22	% Sand	4.6	
Reviewed By	RS	% Silt	59.5	
Job No	20012	% Clay	35.0	

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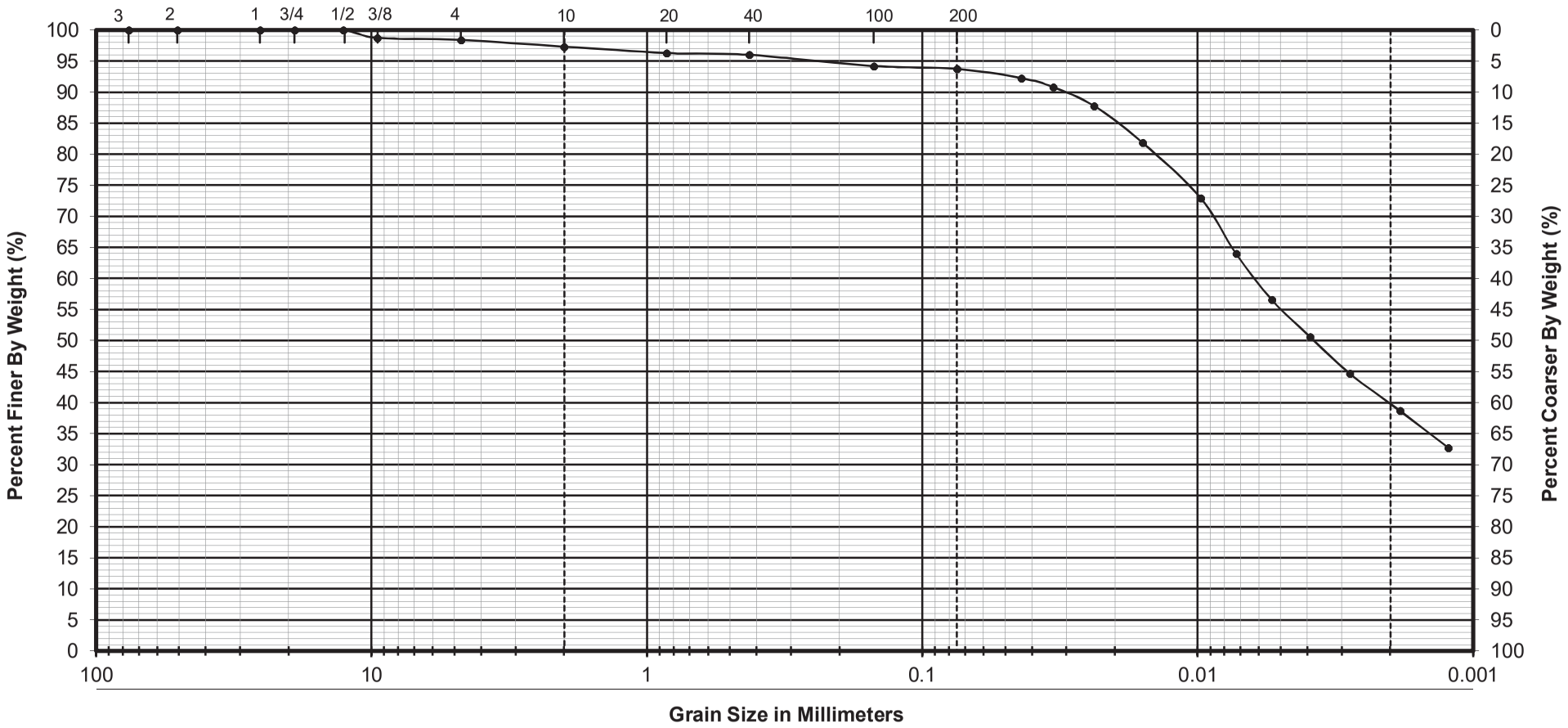

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-055	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CLAY		Interstate Highway 80 (I-80)
Liquid Limit	40	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	22	brown/gray		Will County, Illinois
Plasticity Index	18	Group Index	18	
Test By	MT	% Gravel	2.7	
Date	2/4/22	% Sand	3.6	
Reviewed By	RS	% Silt	55.1	
Job No	20012	% Clay	38.7	

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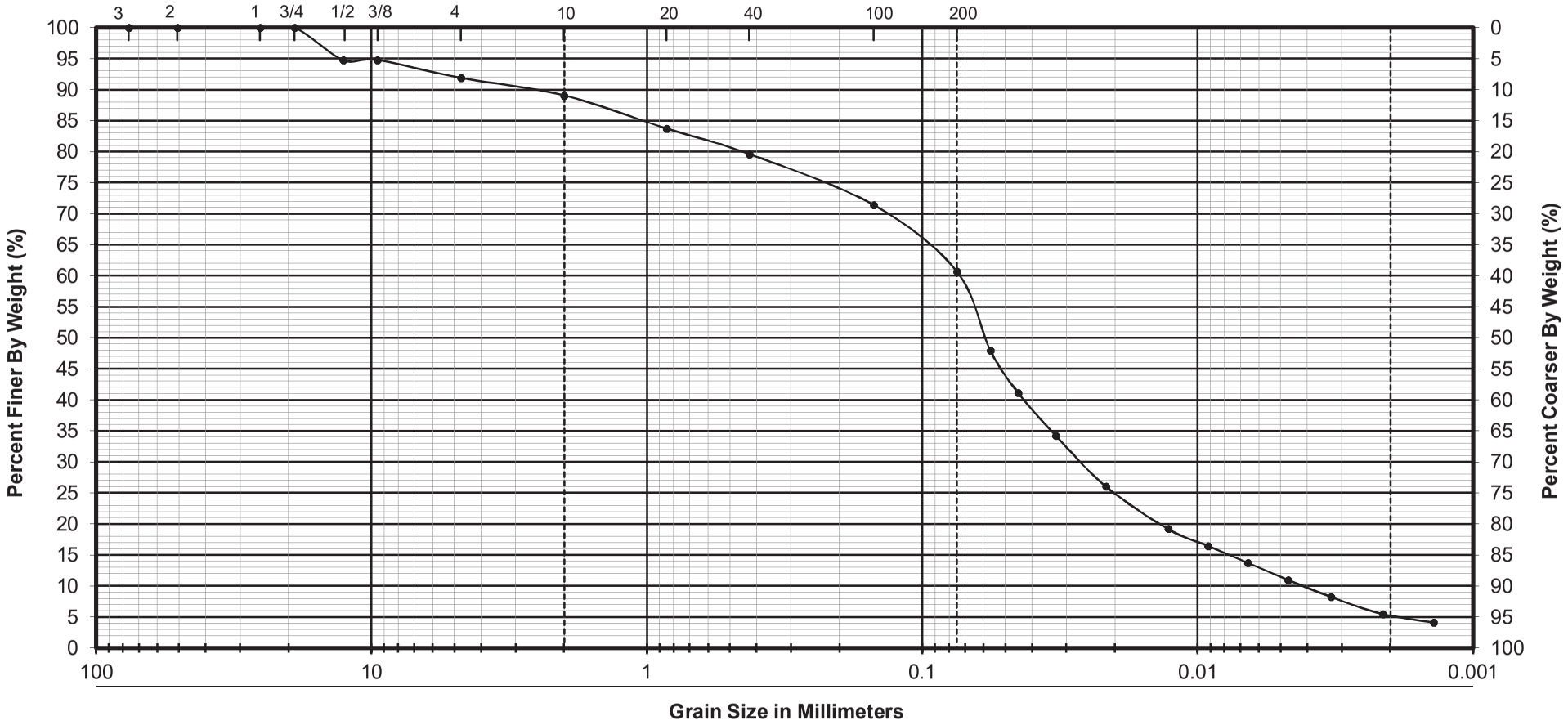

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-056	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	4			
Depth	6.0'-7.5'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	21	A-4		Roadway Reconstruction and Widening I-80
Plastic Limit	16	brown		Will County, Illinois
Plasticity Index	5	Group Index	0	
Test By	MT	% Gravel	10.9	
Date	2/4/22	% Sand	28.4	
Reviewed By	RS	% Silt	55.2	
Job No	20012	% Clay	5.5	

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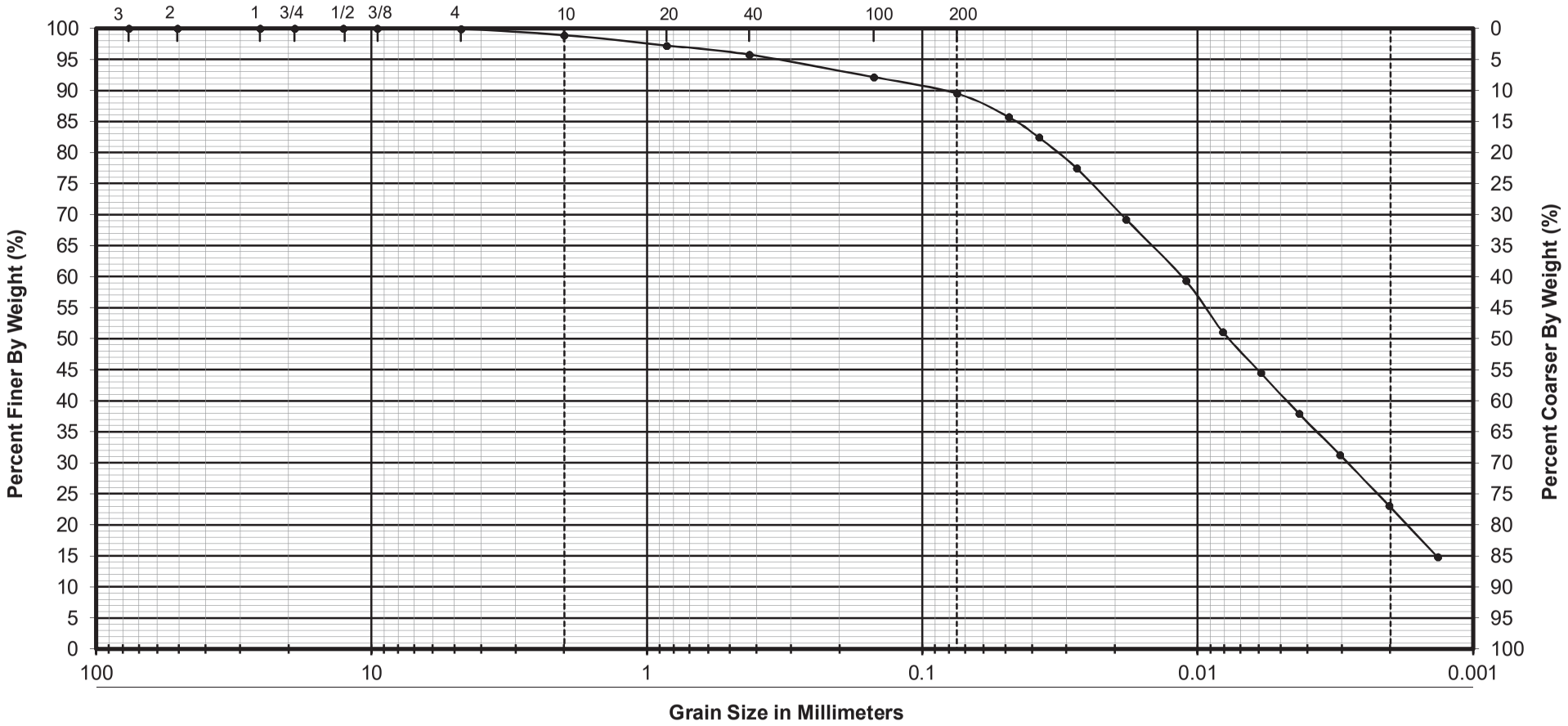

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-063	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	30	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	20	brown/gray		Will County, Illinois
Plasticity Index	14	Group Index	11	
Test By	MT	% Gravel	1.1	
Date	4/21/22	% Sand	9.4	
Reviewed By	RS	% Silt	66.4	
Job No	20012	% Clay	23.1	

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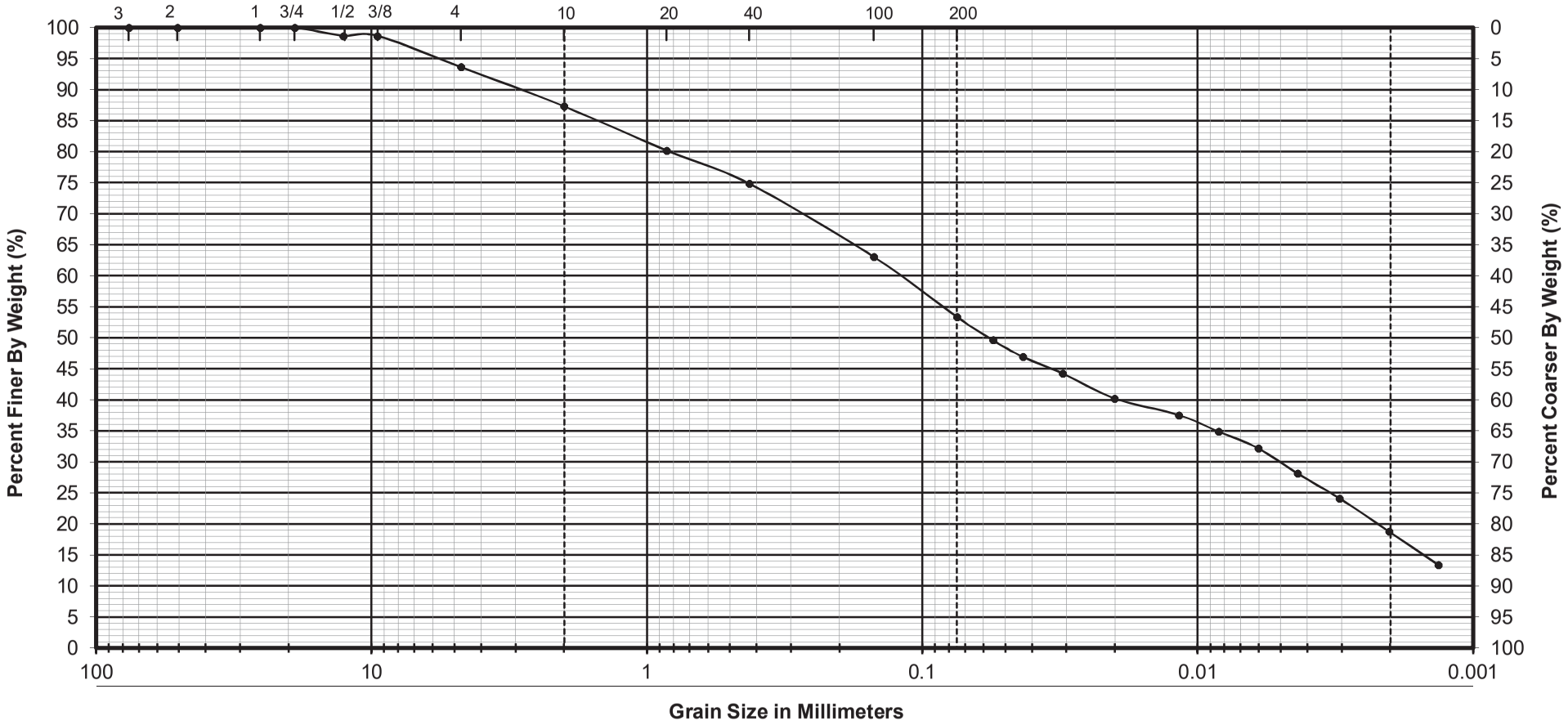

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-066	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	4			
Depth	6.0'-7.5'	LOAM		Interstate Highway 80 (I-80)
Liquid Limit	27	A-4		Roadway Reconstruction and Widening I-80
Plastic Limit	17	brown/gray		Will County, Illinois
Plasticity Index	10	Group Index	2	
Test By	MT	% Gravel	12.7	
Date	2/4/22	% Sand	33.9	
Reviewed By	RS	% Silt	34.6	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	18.8	Phone 847-253-3845 • Fax 847-253-0482

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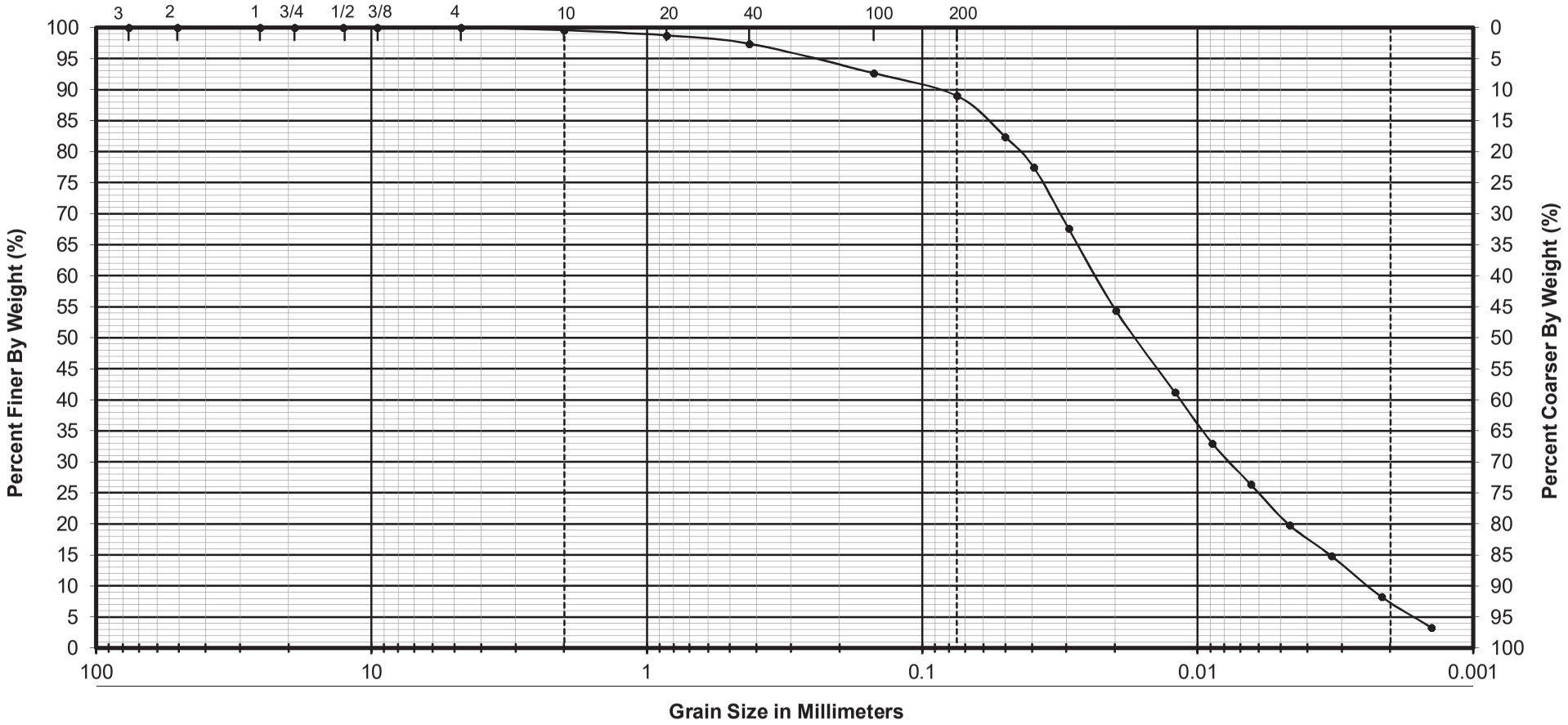

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-073	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILT		Interstate Highway 80 (I-80)
Liquid Limit	39	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	22	brown/black		Will County, Illinois
Plasticity Index	17	Group Index	16	
Test By	MT	% Gravel	0.5	
Date	4/21/22	% Sand	10.5	
Reviewed By	RS	% Silt	80.8	
Job No	20012	% Clay	8.2	

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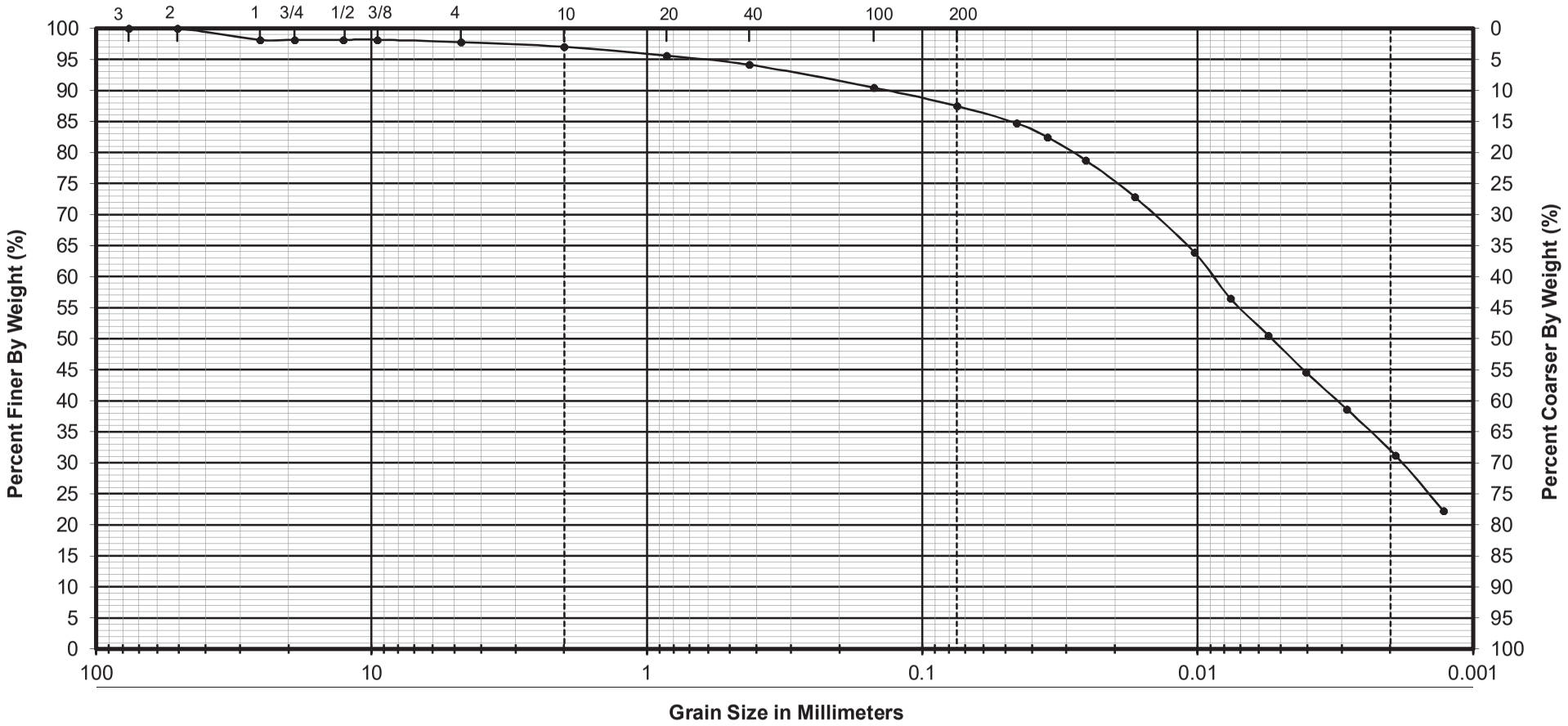

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-075	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	4			
Depth	6.0'-7.5'	SILTY CLAY		Interstate Highway 80 (I-80)
Liquid Limit	33	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	19	brown		Will County, Illinois
Plasticity Index	14	Group Index	11	
Test By	MT	% Gravel	3.0	
Date	2/4/22	% Sand	9.5	
Reviewed By	RS	% Silt	56.3	
Job No	20012	% Clay	31.2	

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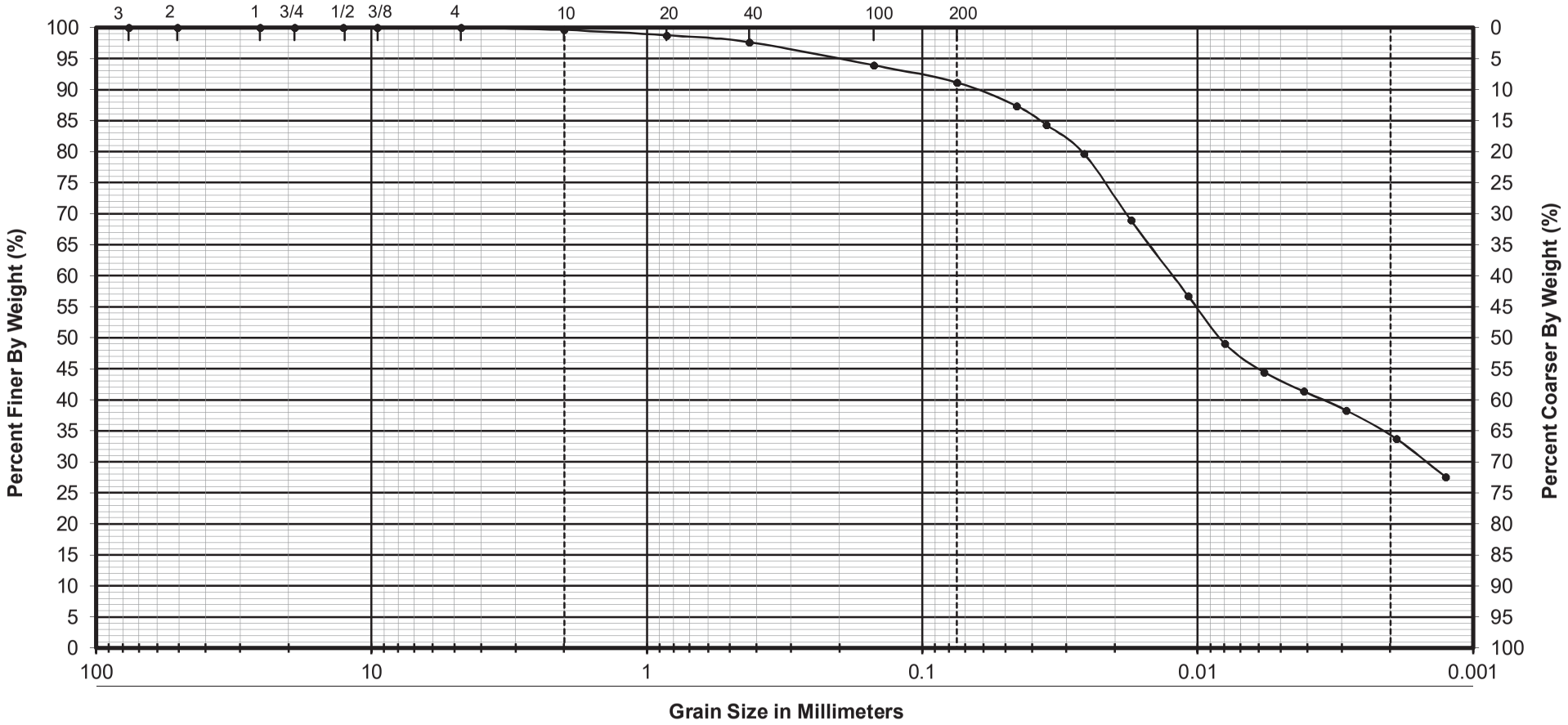

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-076	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CLAY		Interstate Highway 80 (I-80)
Liquid Limit	44	A-7		Roadway Reconstruction and Widening I-80
Plastic Limit	23	gray		Will County, Illinois
Plasticity Index	21	Group Index	21	
Test By	MT	% Gravel	0.4	
Date	2/4/22	% Sand	8.5	
Reviewed By	RS	% Silt	57.4	
Job No	20012	% Clay	33.7	

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GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-081	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	37	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	24	black		Will County, Illinois
Plasticity Index	13	Group Index	11	
Test By	MT	% Gravel	0.4	
Date	4/21/22	% Sand	16.8	
Reviewed By	RS	% Silt	74.6	
Job No	20012	% Clay	8.2	

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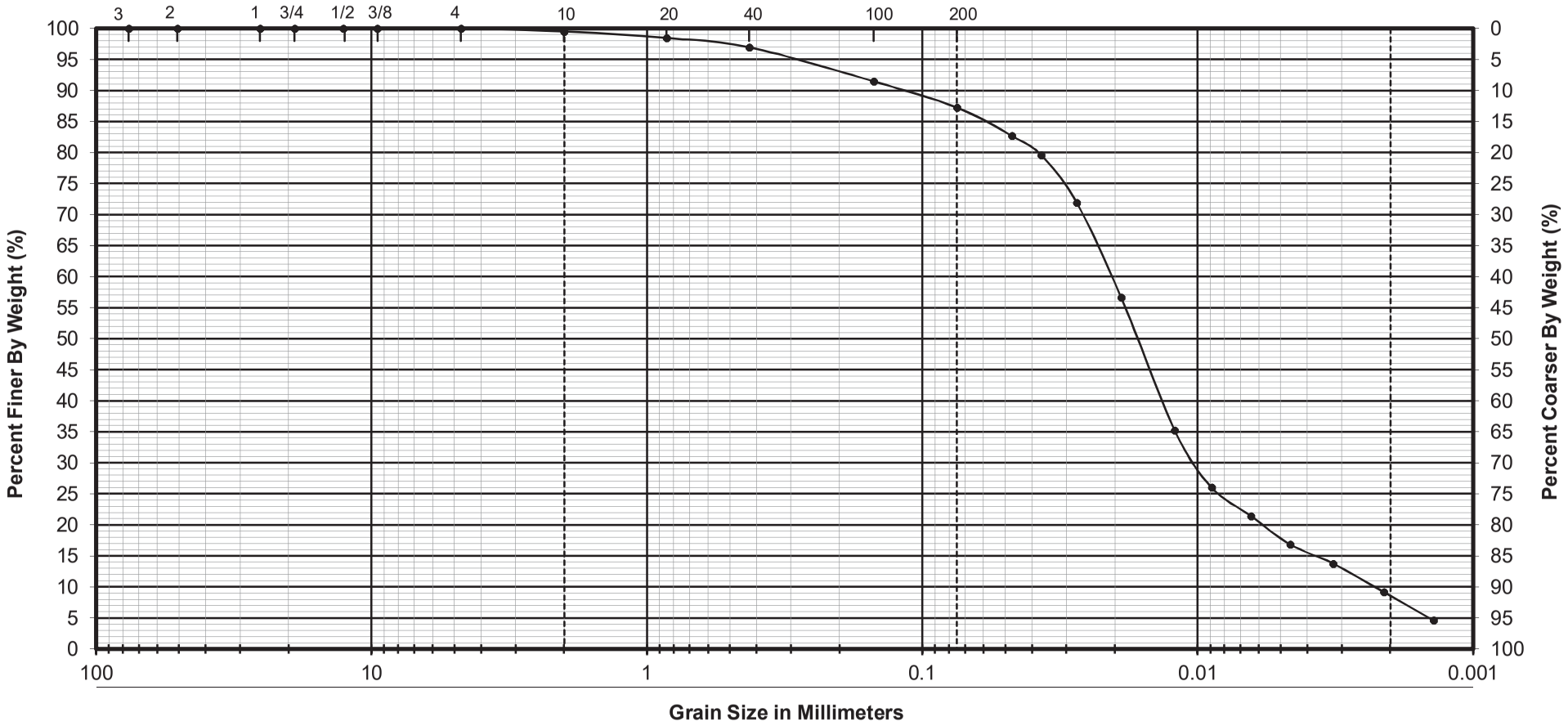

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-083	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	38	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	23	black		Will County, Illinois
Plasticity Index	15	Group Index	13	
Test By	MT	% Gravel	0.5	
Date	2/4/22	% Sand	12.2	
Reviewed By	RS	% Silt	78.1	
Job No	20012	% Clay	9.2	

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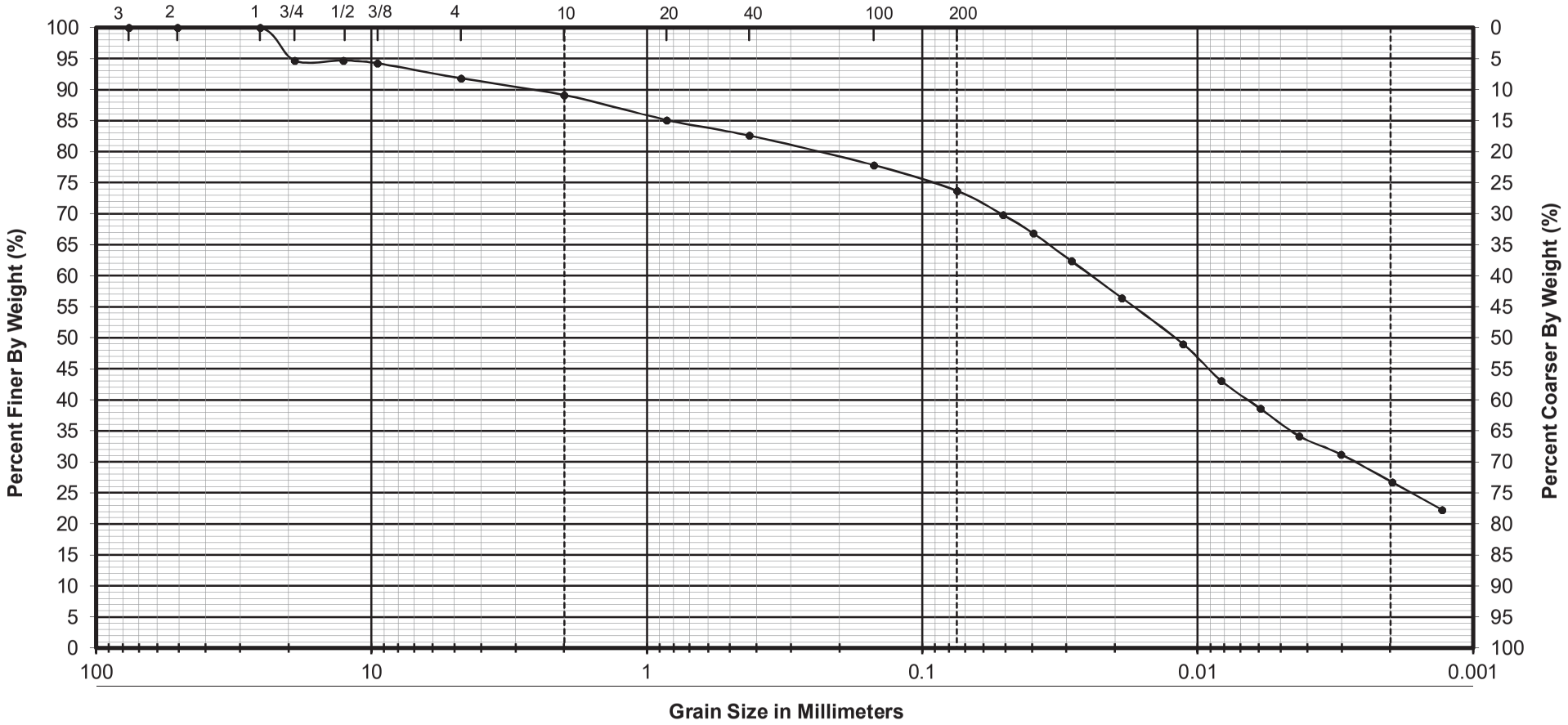

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-085	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	36	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	18	brown/gray		Will County, Illinois
Plasticity Index	18	Group Index	12	
Test By	MT	% Gravel	10.9	
Date	4/21/22	% Sand	15.4	
Reviewed By	RS	% Silt	46.9	
Job No	20012	% Clay	26.7	

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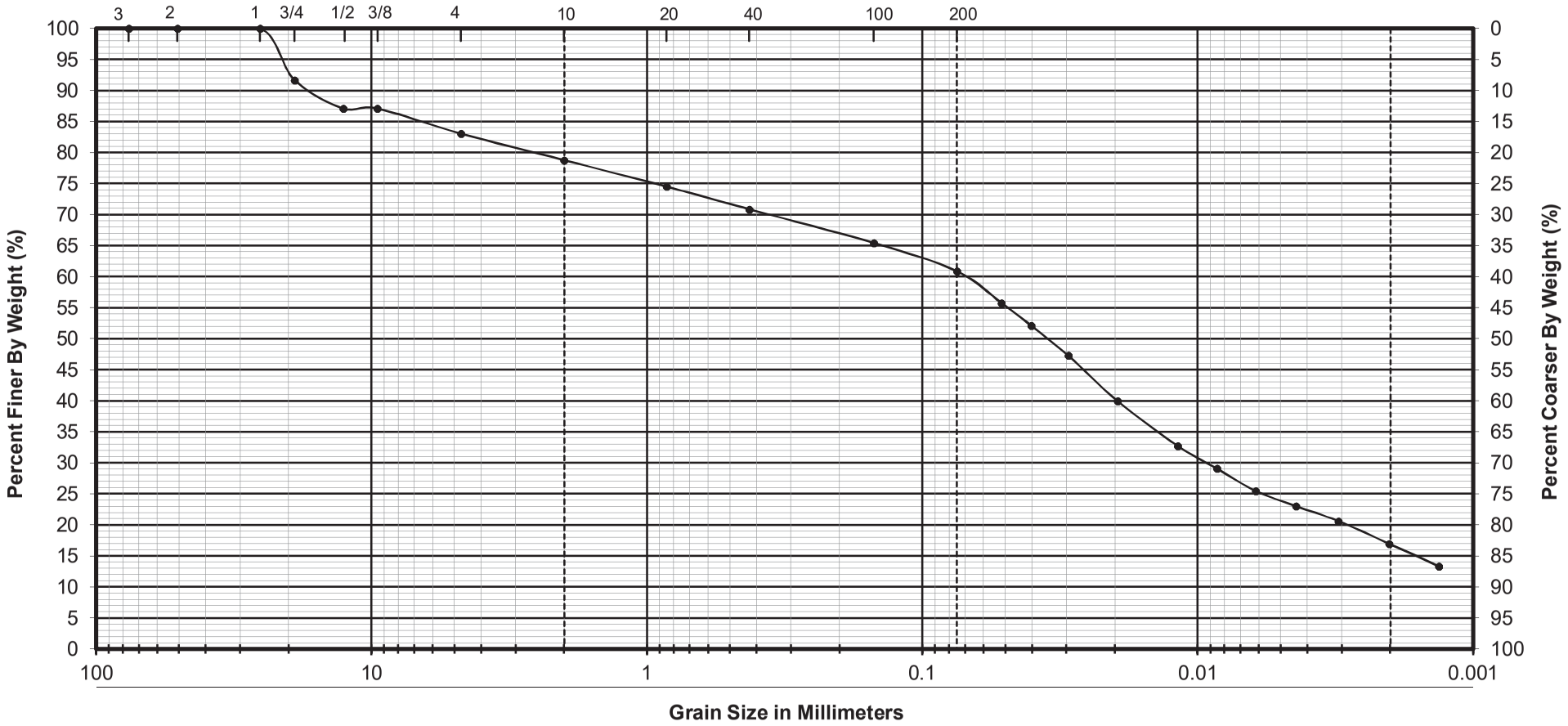

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	SGB-086	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	4			
Depth	6.0'-7.5'	LOAM		Interstate Highway 80 (I-80)
Liquid Limit	34	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	20	brown		Will County, Illinois
Plasticity Index	14	Group Index	6	
Test By	MT	% Gravel	21.2	
Date	2/4/22	% Sand	17.9	
Reviewed By	RS	% Silt	43.9	
Job No	20012	% Clay	17.0	

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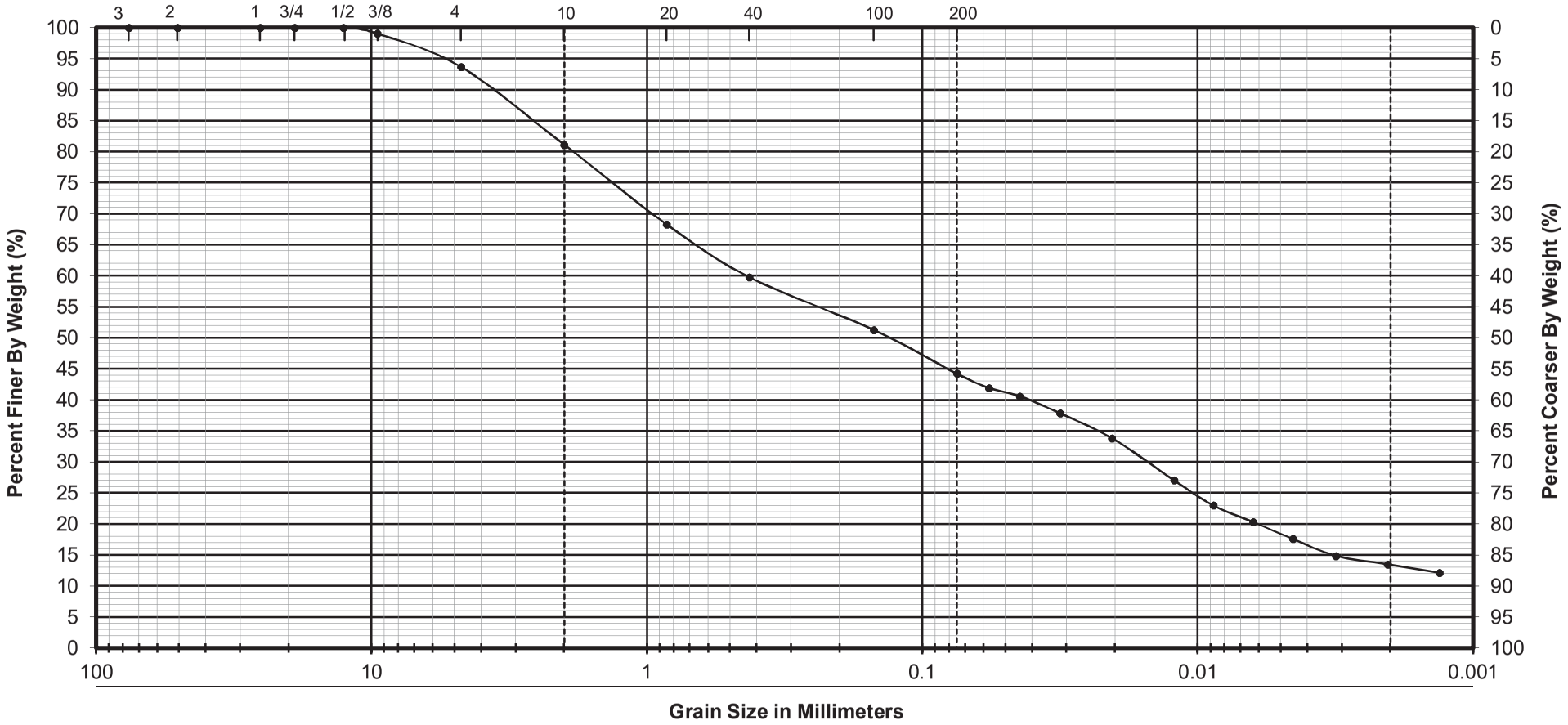

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-08	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	5			
Depth	8.5'-10.0'	SANDY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	18	A-4		Roadway Reconstruction and Widening I-80
Plastic Limit	15	brown/gray		Will County, Illinois
Plasticity Index	3	Group Index	0	
Test By	MT	% Gravel	18.9	
Date	4/21/22	% Sand	36.9	
Reviewed By	RS	% Silt	30.7	
Job No	20012	% Clay	13.5	

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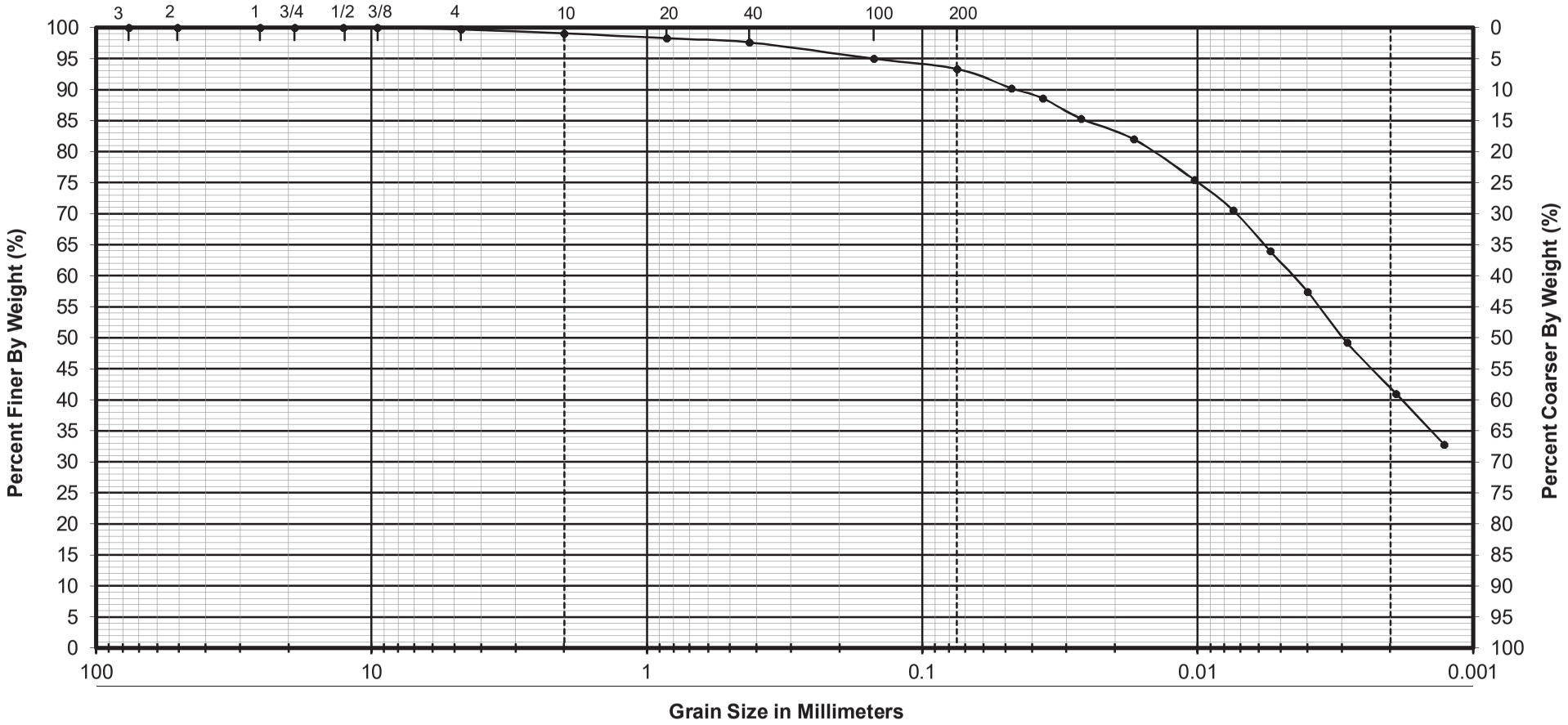

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-18A	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CLAY		Interstate Highway 80 (I-80)
Liquid Limit	36	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	20	brown/gray		Will County, Illinois
Plasticity Index	16	Group Index	15	
Test By	MT	% Gravel	0.9	
Date	4/21/22	% Sand	5.7	
Reviewed By	RS	% Silt	52.3	
Job No	20012	% Clay	41.0	

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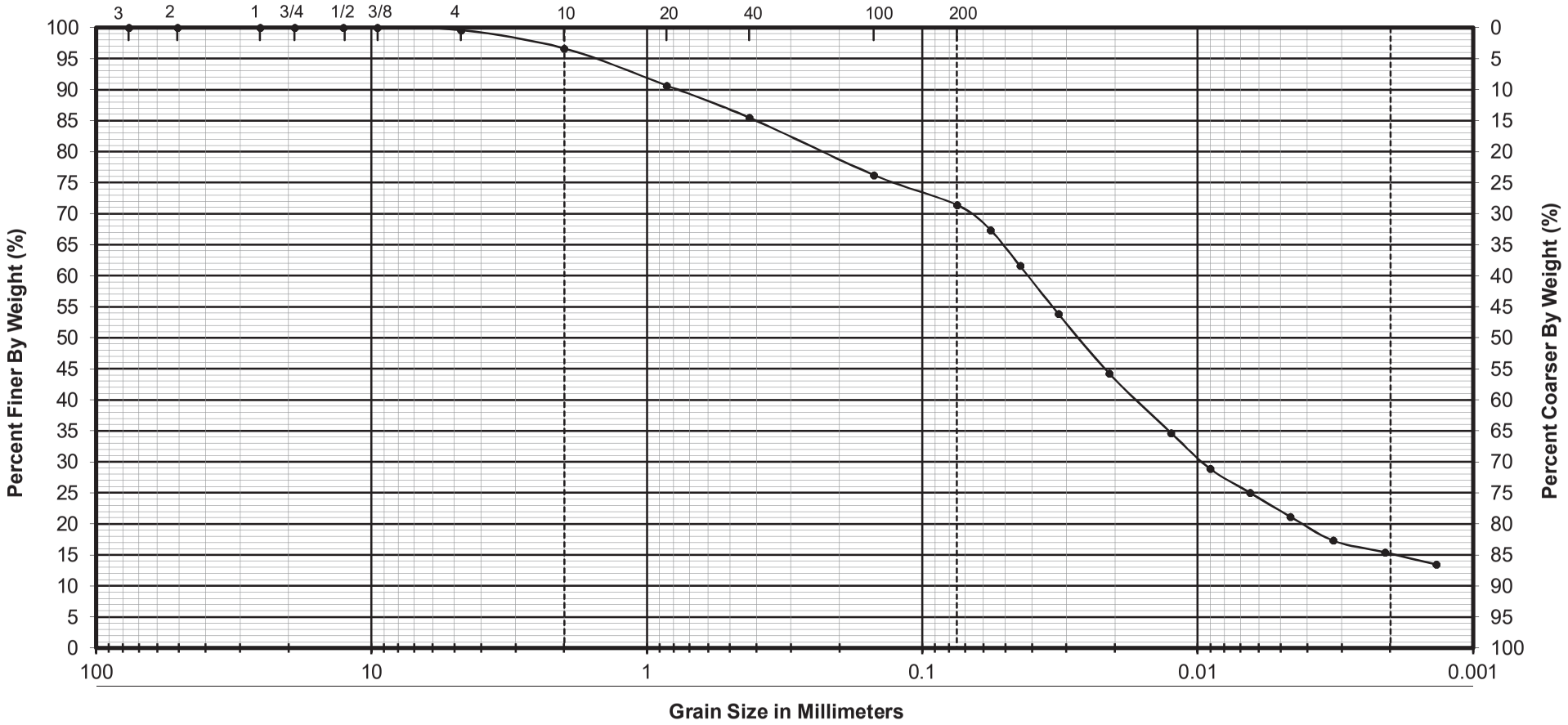

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-25A	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1			
Depth	0-2.0	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	47	A-7		Roadway Reconstruction and Widening I-80
Plastic Limit	36	brown/black		Will County, Illinois
Plasticity Index	11	Group Index	9	
Test By	MT	% Gravel	3.4	
Date	4/21/22	% Sand	25.2	
Reviewed By	RS	% Silt	56.0	
Job No	20012	% Clay	15.4	

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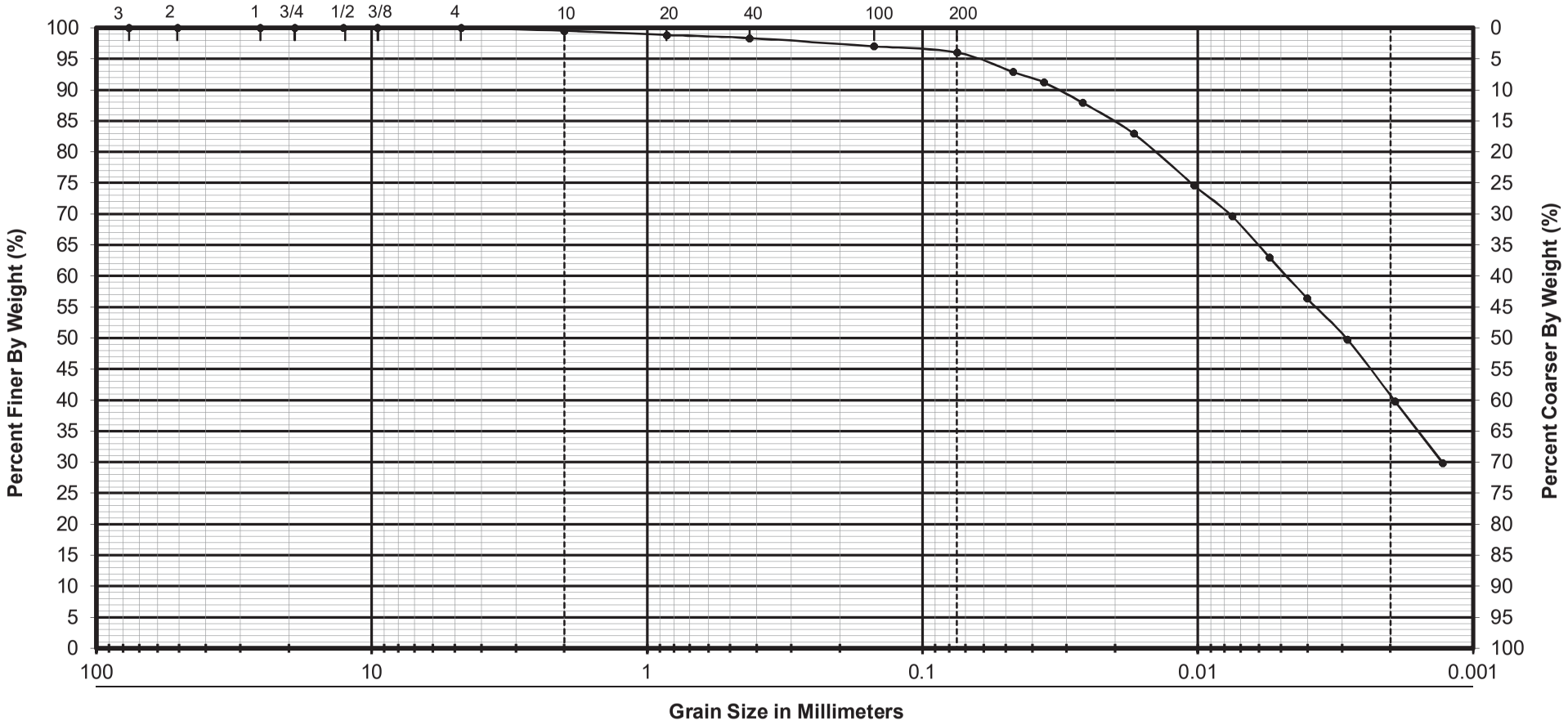

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-45	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1			
Depth	1.0'-2.5'	SILTY CLAY		Interstate Highway 80 (I-80)
Liquid Limit	30	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	17	gray		Will County, Illinois
Plasticity Index	13	Group Index	12	
Test By	MT	% Gravel	0.5	
Date	4/21/22	% Sand	3.5	
Reviewed By	RS	% Silt	56.2	
Job No	20012	% Clay	39.8	

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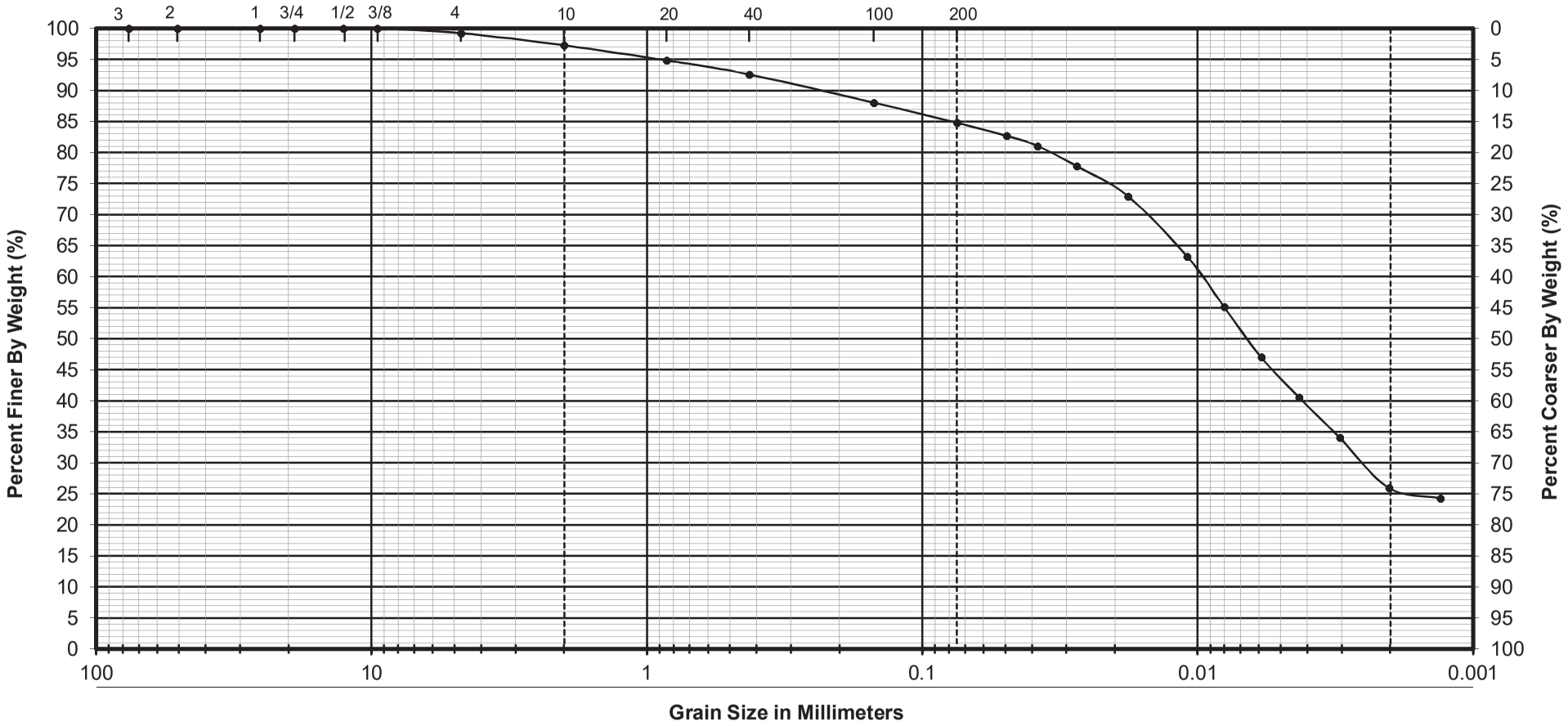

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-65	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY CLAY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	28	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	17	brown/gray		Will County, Illinois
Plasticity Index	11	Group Index	8	
Test By	MT	% Gravel	2.7	
Date	4/21/22	% Sand	12.5	
Reviewed By	RS	% Silt	58.8	
Job No	20012	% Clay	25.9	

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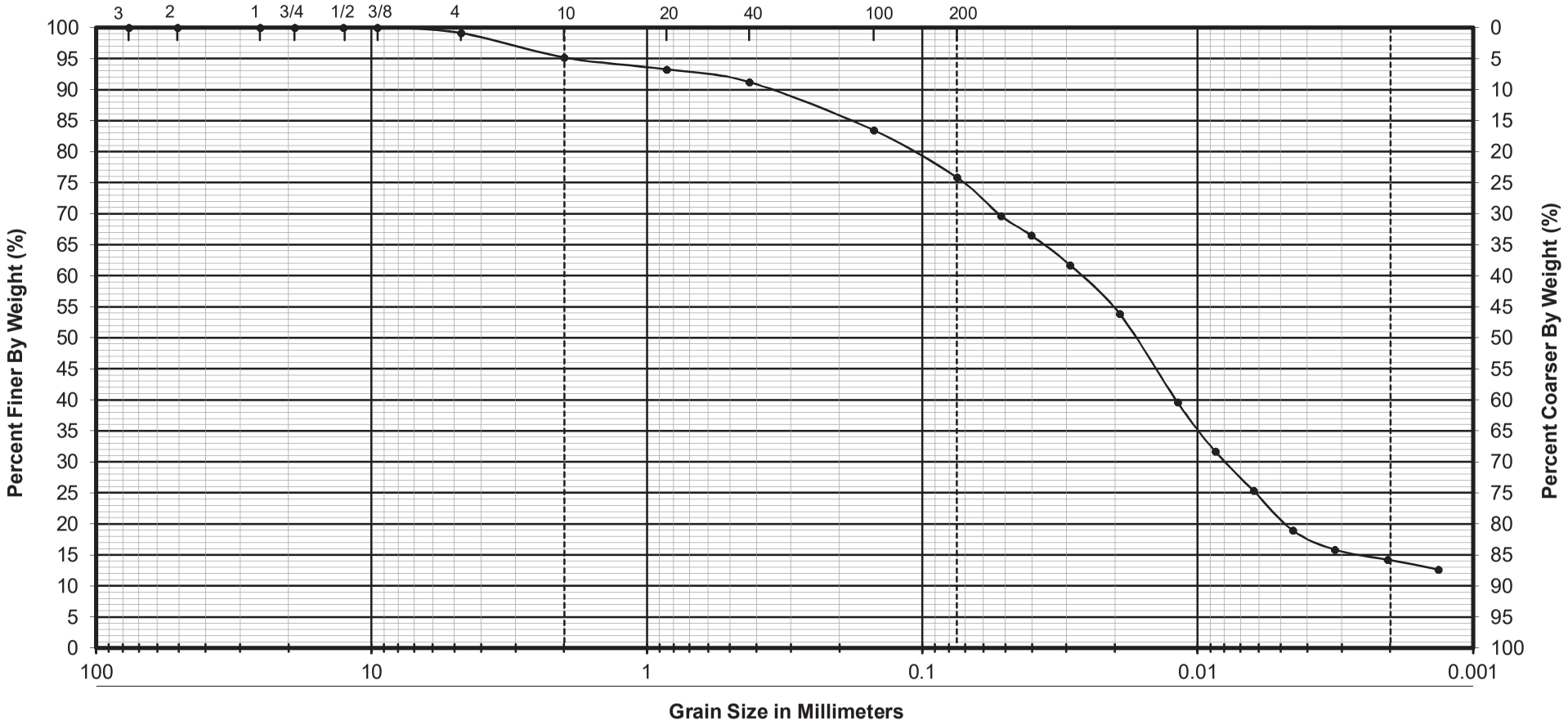

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-75A	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	40	A-6		Roadway Reconstruction and Widening I-80
Plastic Limit	21	brown/gray		Will County, Illinois
Plasticity Index	19	Group Index	14	
Test By	MT	% Gravel	4.8	
Date	4/21/22	% Sand	19.3	
Reviewed By	RS	% Silt	61.6	
Job No	20012	% Clay	14.3	

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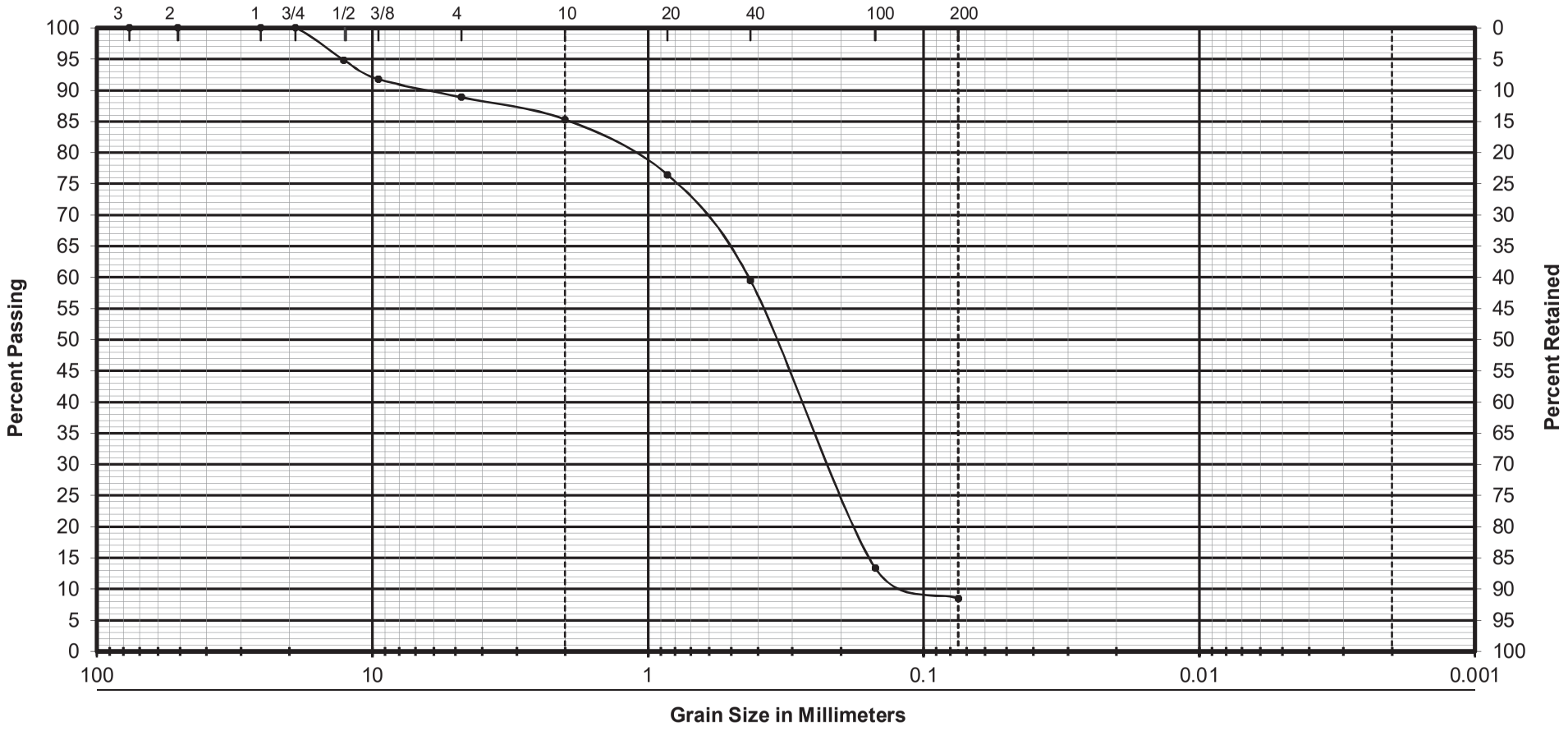

Boring No.	SGB-002	CLASSIFICATION		GRAIN-SIZE ANALYSIS-AASHTO T 311
Sample No.	3			
Depth	3.5'-5.0'	SAND		Interstate Highway 80 (I-80)
Liquid Limit	-	A-3		Roadway Reconstruction and Widening
Plastic Limit	-	dark brown		I-80 Will County, Illinois
Plasticity Index	NP	Group Index	0	
Test By	MT	% Gravel	14.7	
Date	2/8/22	% Sand	76.8	
Reviewed By	RS	% Silt / Clay	8.5	
Job No	20012			

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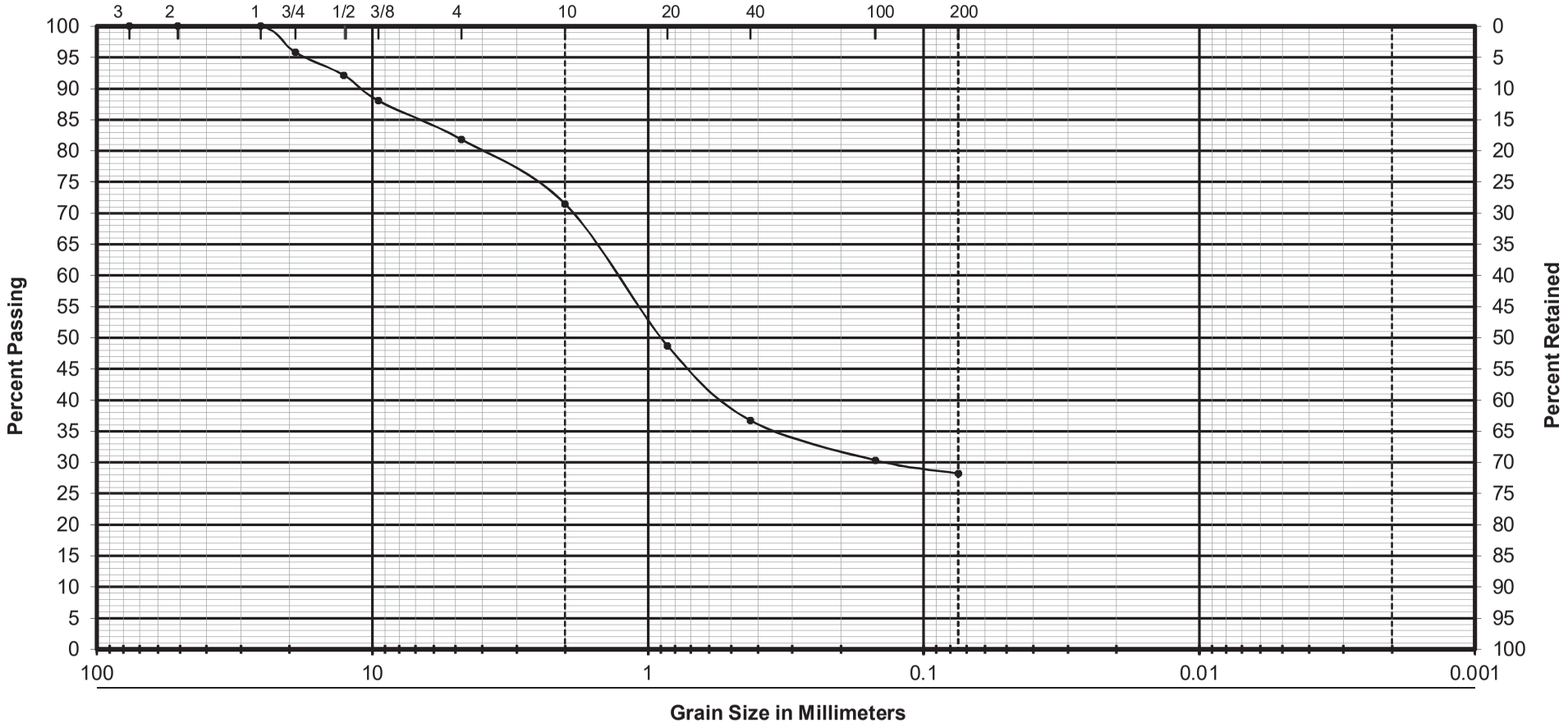

Boring No.	SGB-111	CLASSIFICATION		GRAIN-SIZE ANALYSIS-AASHTO T 311
Sample No.	3			
Depth	3.5'-5.0'	SANDY LOAM		Interstate Highway 80 (I-80)
Liquid Limit	-	A-2-4		Roadway Reconstruction and Widening
Plastic Limit	-	brown		I-80 Will County, Illinois
Plasticity Index	NP	Group Index	0	
Test By	MT	% Gravel	28.5	
Date	2/8/22	% Sand	43.2	
Reviewed By	RS	% Silt / Clay	28.2	
Job No	20012			

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

Project Name I-80 Phase II: Proposed Briggs St Bridge Job No 20012

Location Will County, Illinois Date 2/9/22

Client EXP

Boring No.	SGB-011	SGB-018	SGB-019	SGB-035	SGB-036	SGB-046	SGB-055	SGB-056
Sample No.	3	5	2	3	4	5	3	4
Depth	3.5'-5.0'	8.5'-10.0'	1.0'-2.5'	3.5'-5.0'	8.5'-10.0'	3.5'-5.0'	6.0'-7.5'	6.0'-7.5'
LIQUID LIMIT (LL)	36	29	31	26	40	39	40	21
PLASTIC LIMIT (PL)	19	18	16	15	21	22	22	16
PLASTICITY INDEX (PI)	17	11	15	11	19	17	18	5

Tested by MT/VH

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

Project Name I-80 Phase II: Proposed Briggs St Bridge Job No 20012

Location Will County, Illinois Date 2/9/22

Client EXP

Boring No.	SGB-066	SGB-075	SGB-076	SGB-083	SGB-086			
Sample No.	4	3	3	3	4			
Depth	3.5'-5.0'	3.5'-5.0'	3.5'-5.0'	6.0'-7.5'	6.0'-7.5'			
LIQUID LIMIT (LL)	27	33	44	38	34			
PLASTIC LIMIT (PL)	17	19	23	23	20			
PLASTICITY INDEX (PI)	10	14	21	15	14			

Tested by MT/VH

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

Project Name I-80 Phase II: Proposed Briggs St Bridge Job No 20012

Location Will County, Illinois Date 5/6/22

Client EXP

Boring No.	SGB-009	SGB-010	SGB-016	SGB-025	SGB-026	SGB-033	SGB-045	SGB-063
Sample No.	2	3	3	2	3	2	3	2
Depth	1.0'-2.5'	3.5'-5.0'	3.5'-5.0'	1.0'-2.5'	3.5'-5.0'	1.0'-2.5'	3.5'-5.0'	1.0'-2.5'
LIQUID LIMIT (LL)	27	38	36	26	31	16	22	34
PLASTIC LIMIT (PL)	16	22	19	16	18	14	14	20
PLASTICITY INDEX (PI)	11	16	17	10	13	2	8	14

Tested by MT

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

Project Name I-80 Phase II: Proposed Briggs St Bridge Job No 20012

Location Will County, Illinois Date 5/6/22

Client EXP

Boring No.	SGB-073	SGB-081	SGB-085					
Sample No.	2	3	3					
Depth	1.0'-2.5'	3.5'-5.0'	3.5'-5.0'					
LIQUID LIMIT (LL)	39	37	36					
PLASTIC LIMIT (PL)	22	24	18					
PLASTICITY INDEX (PI)	17	13	18					

Tested by MT/VH

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DETERMINATION of ORGANIC CONTENT in SOILS by LOSS on IGNITION
AASHTO T267

Project Name I-80 Phase II: Proposed Briggs St Bridge **Date** 02/01/22

Location Will County, IL **Job No** 20012

Boring No. SGB-083 **Sample No.** 3 **Depth** 3.5'-5.0'

Sample Description ORGANIC SILTY CLAY-black **Testing Furnace Temp ^{0}C.:** 440

Mosture Content	Wet Soil+Tare (g)	Dry Soil+Tare (g)	Tare Mass (g)	w (%)
Oven-Dry Method	87.83	79.7	51.48	28.8

Ash Content	Dry Soil+Tare (g)	Ash+Tare (g)	Tare Mass (g)	Ash content (%)
Loss on Ignition	79.7	78.33	51.48	95.1

Organic Content (%) = 4.9

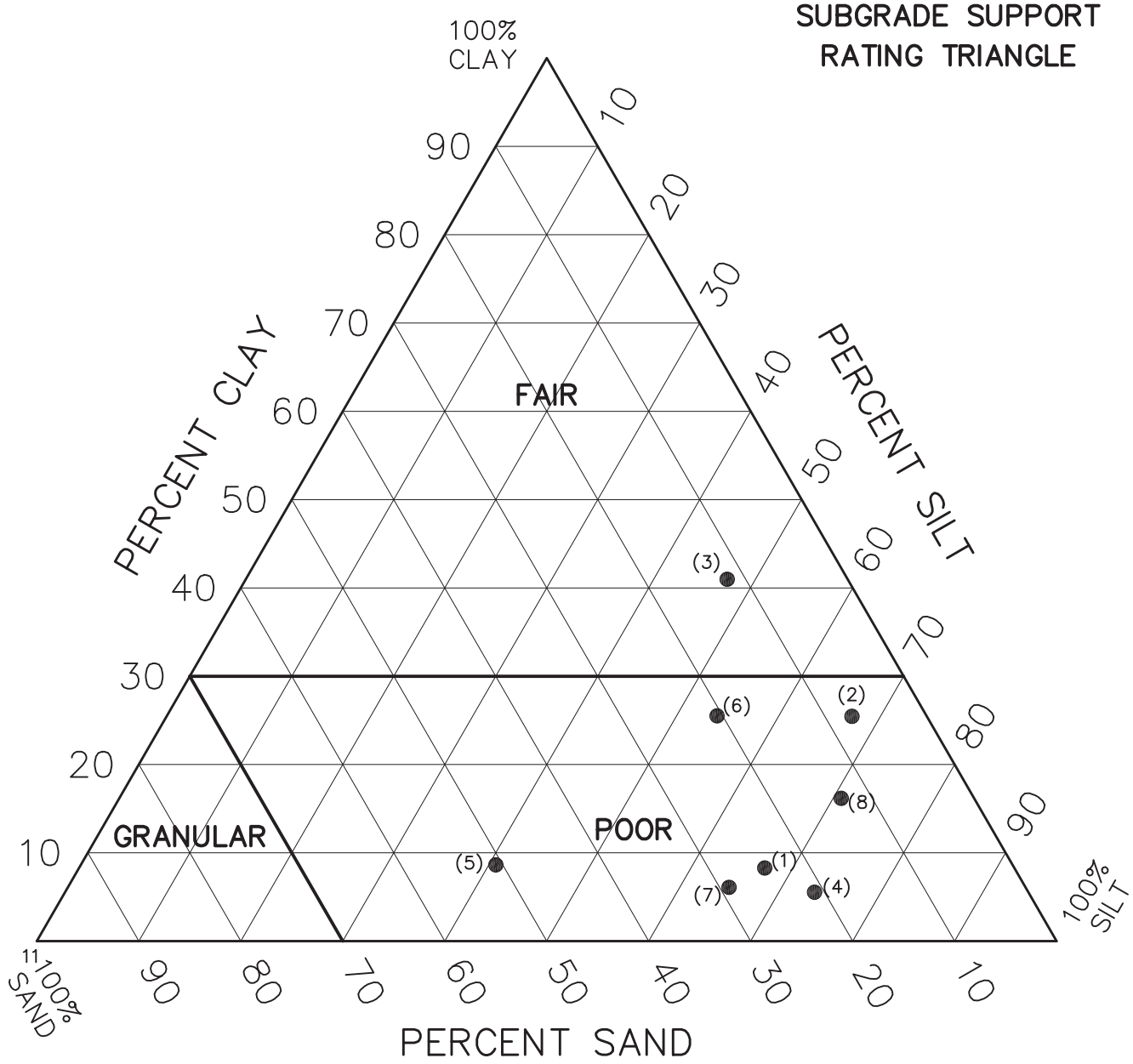
Notes:

Test By MT

APPENDIX F

BBS 2460 & SSR

SUBGRADE SUPPORT RATING TRIANGLE



NOTES:

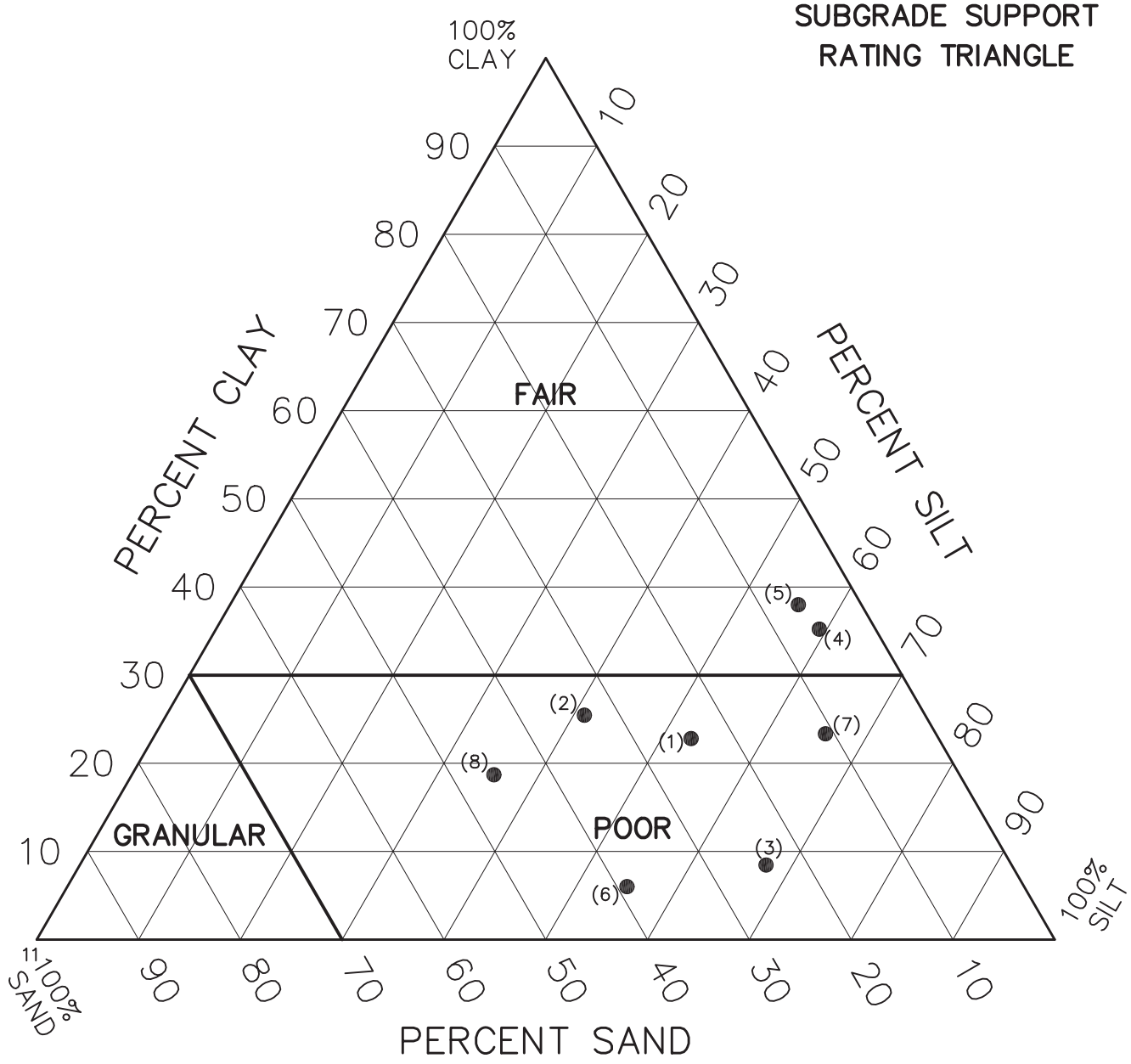
1. If granular soils are encountered, the soils report should note alternatives to the 12 inch improved subgrade policy
2. Soil Separate Sizes:
   Sand: 2.0 mm to 0.074 mm
   Silt: 0.074 mm to 0.002 mm
   Clay: Below 0.002 mm

LAB SAMPLES:

1 ● SGB–009 (–1.0' to –2.5')
2 ● SGB–010 (–3.5' to –5.0')
3 ● SGB–011 (–3.5' to –5.0')
4 ● SGB–016 (–3.5' to –5.0')
5 ● SGB–018 (–8.5 to –10.0')
6 ● SGB–019 (–1.0' to –2.5')
7 ● SGB–025 (–1.0' to –2.5')
8 ● SGB–026 (–3.5' to –5.0')

SUBGRADE SUPPORT RATING (SSR)	
Roadway Geotechnical Report (RGR) Roadway Improvements at IL 58 at Niles Center Road and US 41 Work Order 19, PTB 187–06, Contract 62633, Section 2003–065N Skokie, Cook County, IL.	
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355–2838	
DRAWN BY	MT
APPROVED BY	RR
DATE	7/19/2019
JOB NO.	18042–B

SUBGRADE SUPPORT RATING TRIANGLE



NOTES:

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   Sand: 2.0 mm to 0.074 mm
   Silt: 0.074 mm to 0.002 mm
   Clay: Below 0.002 mm

LAB SAMPLES:

1 ● SGB–035 (–3.5' to –5.0')
2 ● SGB–036 (–6.0' to –7.5')
3 ● SGB–045 (–3.5' to –5.0')
4 ● SGB–046 (–8.5' to –10.0')
5 ● SGB–055 (–3.5' to –5.0')
6 ● SGB–056 (–6.0' to –7.5')
7 ● SGB–063 (–1.0' to –2.5')
8 ● SGB–066 (–6.0' to –7.5')

SUBGRADE SUPPORT RATING (SSR)	
Roadway Geotechnical Report (RGR) Roadway Improvements at IL 58 at Niles Center Road and US 41 Work Order 19, PTB 187–06, Contract 62633, Section 2003–065N Skokie, Cook County, IL.	
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355–2838	
DRAWN BY	MT
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DATE	7/19/2019
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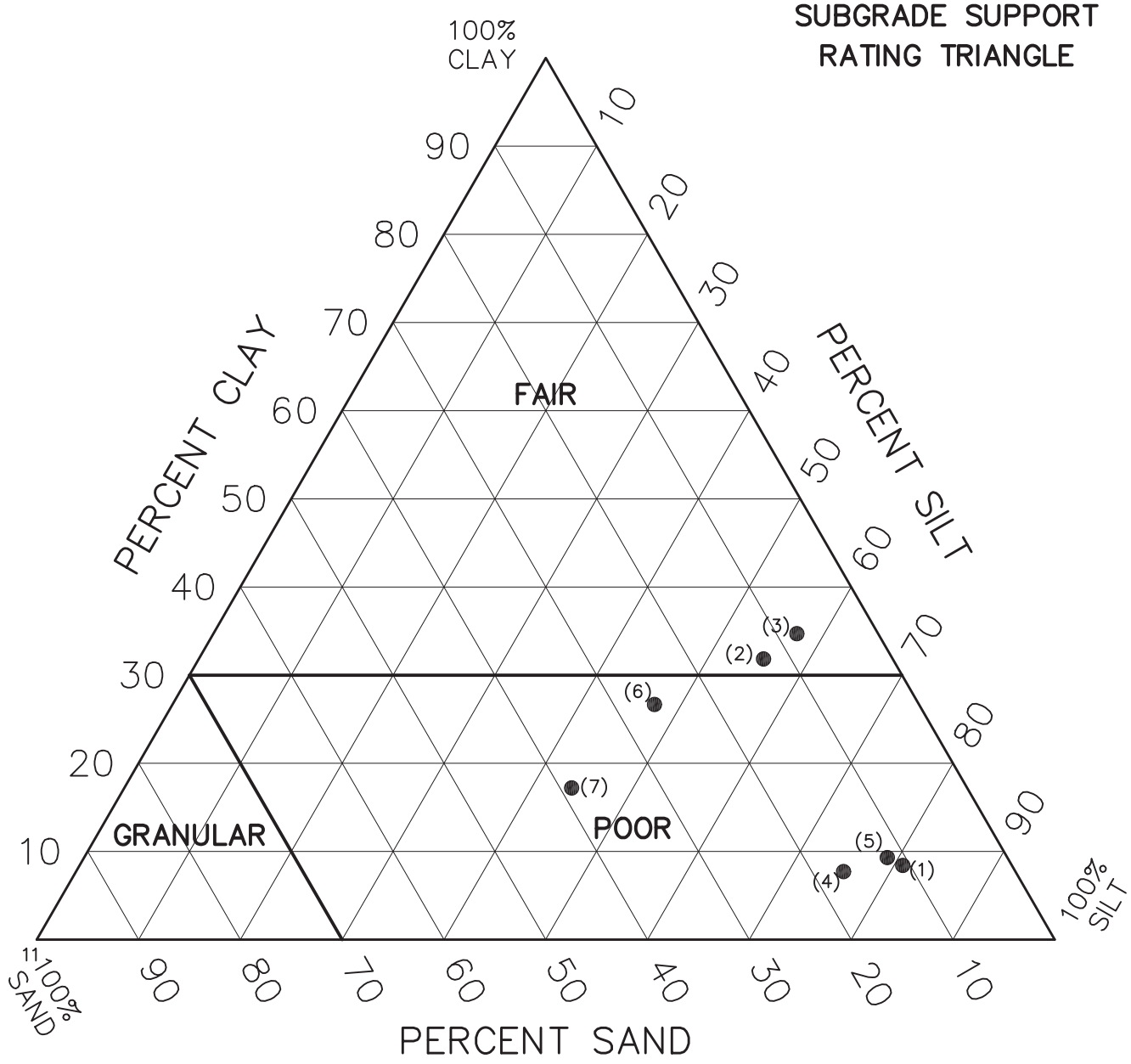
SUBGRADE SUPPORT RATING TRIANGLE



NOTES:

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2. Soil Separate Sizes:
   Sand: 2.0 mm to 0.074 mm
   Silt: 0.074 mm to 0.002 mm
   Clay: Below 0.002 mm

LAB SAMPLES:

1 ● SGB–073 (–1.0' to –2.5')
2 ● SGB–075 (–6.0' to –7.5')
3 ● SGB–076 (–3.5' to –5.0')
4 ● SGB–081 (–3.5' to –5.0')
5 ● SGB–083 (–3.5' to –5.0')
6 ● SGB–085 (–3.5' to –5.0')
7 ● SGB–086 (–6.0' to –7.5')

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DRAWN BY	MT
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DATE	7/19/2019
JOB NO.	18042–B

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Soil Test Data

Route I-80
Section ---
County Will
Location Chicago Street to Rt. 30

Boring No./Sample No.	SGB-009 S-2	SGB-010 S-3	SGB-016 S-3	SGB-018 S-5
Station	793+00	794+53	808+04	811+02
Offset	57.9 ft Right	26.3 ft Left	33.7 ft Right	62.9 ft Right
Depth	1.0'-2.5'	3.5'-5.0'	3.5'-5.0'	8.5'-10.0'
AASHTO Classification	A-6	A-6	A-6	A-6
Illinois Textural Classification	SILTY LOAM	SILTY CLAY LOAM	SILTY LOAM	SANDY LOAM
Gradation Passing – 1"	100%	100%	100%	100%
¾"	100%	100%	100%	100%
½"	100%	100%	100%	100%
No. 4	98.8%	99.8%	98.6%	97.2%
No. 10	96.8%	99.5%	96.7%	90.1%
No. 40	89.5%	97.8%	92.6%	67.0%
No. 100	81.9%	94.7%	85.6%	55.3%
No. 200	75.2%	91.6%	79.6%	49.1%
Gravel (AASHTO T-88)	3.2%	0.4%	3.3%	9.9%
Sand (AASHTO T-88)	21.5%	8.0%	17.1%	41.0%
Silt (AASHTO T-88)	65.6%	66.8%	73.2%	39.5%
Clay (AASHTO T-88)	9.6%	24.8%	6.4%	9.6%
Liquid Limit (AASHTO T-89)	27	38	36	29
Plasticity Index (AASHTO T-90)	11	16	17	11
Std. Dry Density pcf (AASHTO T-99)	-	-	-	-
Optimum Moisture (AASHTO T-99)	-	-	-	-
Subgrade Support Rating	POOR	POOR	POOR	POOR
Organic Content	-	-	-	-
Insitu Moisture	16%	22%	25%	16%

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Soil Test Data

Route I-80
Section ---
County Will
Location Chicago Street to Rt. 30

Boring No./Sample No.	SGB-019 S-2	SGB-025 S-2	SGB-026 S-3	SGB-035 S-3
Station	812+50	824+51	826+03	841+01
Offset	26.6 ft Left	26.7 ft Left	33.9 ft Right	65.1 ft Right
Depth	1.0'-2.5'	1.0'-2.5'	3.5'-5.0'	3.5'-5.0'
AASHTO Classification	A-6	A-4	A-6	A-6
Illinois Textural Classification	SILTY CLAY LOAM	SILTY LOAM	SILTY LOAM	SILTY CLAY LOAM
Gradation Passing – 1"	100%	100%	100%	100%
¾"	100%	100%	100%	100%
½"	100%	100%	100%	100%
No. 4	99.6%	96.4%	98.6%	99.5%
No. 10	97.8%	91.8%	97.1%	96.6%
No. 40	91.8%	81.8%	94.6%	90.6%
No. 100	84.4%	75.1%	91.4%	81.6%
No. 200	79.6%	71.0%	87.85%	74.6%
Gravel (AASHTO T-88)	2.2%	8.2%	2.9%	3.3%
Sand (AASHTO T-88)	18.2%	20.8%	9.2%	22.1%
Silt (AASHTO T-88)	54.0%	64.9%	71.7%	53.9%
Clay (AASHTO T-88)	25.6%	6.1%	16.1%	20.7%
Liquid Limit (AASHTO T-89)	31	26	31	26
Plasticity Index (AASHTO T-90)	15	10	13	11
Std. Dry Density pcf (AASHTO T-99)	-	-	-	-
Optimum Moisture (AASHTO T-99)	-	-	-	-
Subgrade Support Rating	POOR	POOR	POOR	POOR
Organic Content	-	-	-	-
Insitu Moisture	15%	13%	17%	16%

Soil Test Data

Route I-80
Section ---
County Will
Location Chicago Street to Rt. 30

Boring No./Sample No.	SGB-036 S-4	SGB-045 S-3	SGB-046 S-5	SGB-055 S-3
Station	842+56	855+99	857+54	870+96
Offset	27.2 ft Left	33.5 ft Right	62.2 ft Left	64.3 ft Right
Depth	6.0'-7.5'	3.5'-5.0'	8.5'-10.0'	3.5'-5.0'
AASHTO Classification	A-6	A-4	A-6	A-6
Illinois Textural Classification	CLAY LOAM	SILTY LOAM	SILTY CLAY	SILTY CLAY
Gradation Passing – 1"	100%	100%	100%	100%
¾"	100%	100%	100%	100%
½"	100%	100%	100%	100%
No. 4	96.7%	100%	99.2%	98.4%
No. 10	90.9%	99.8%	99.0%	97.3%
No. 40	75.9%	91.8%	97.9%	95.9%
No. 100	69.6%	82.3%	97.7%	94.2%
No. 200	65.7%	75.5%	94.9%	94.7%
Gravel (AASHTO T-88)	9.0%	0.2%	0.9%	2.7%
Sand (AASHTO T-88)	25.2%	24.2%	4.6%	3.6%
Silt (AASHTO T-88)	40.5%	67.3%	59.5%	55.1%
Clay (AASHTO T-88)	25.2%	8.2%	35.0%	38.7%
Liquid Limit (AASHTO T-89)	40	22	39	40
Plasticity Index (AASHTO T-90)	19	8	17	18
Std. Dry Density pcf (AASHTO T-99)	-	-	-	-
Optimum Moisture (AASHTO T-99)	-	-	-	-
Subgrade Support Rating	POOR	POOR	FAIR	FAIR
Organic Content	-	-	-	-
Insitu Moisture	26%	26%	26%	23%

Soil Test Data

Route I-80
Section ---
County Will
Location Chicago Street to Rt. 30

Boring No./Sample No.	SGB-056 S-4	SGB-063 S-2	SGB-066 S-4	SGB-073 S-2
Station	872+53	883+08	887+52	898+00
Offset	25.0 ft Left	64.4 ft Right	62.6 ft Left	25 ft Right
Depth	6.0'-7.5'	1.0'-2.5'	6.0'-7.5'	1.0'-2.5'
AASHTO Classification	A-4	A-6	A-4	A-6
Illinois Textural Classification	SILTY LOAM	SILTY CLAY LOAM	LOAM	SILT
Gradation Passing – 1"	100%	100%	100%	100%
¾"	100%	100%	100%	100%
½"	94.7%	100%	98.7%	100%
No. 4	91.9%	99.9%	93.6%	100%
No. 10	89.1%	98.9%	87.3%	99.5%
No. 40	79.6%	95.7%	74.8%	97.5%
No. 100	71.4%	92.1%	63.0%	92.6%
No. 200	60.7%	89.5%	53.4%	89.0%
Gravel (AASHTO T-88)	10.9%	1.1%	12.7%	0.5%
Sand (AASHTO T-88)	28.4%	9.4%	33.9%	10.5%
Silt (AASHTO T-88)	55.2%	66.4%	34.6%	80.8%
Clay (AASHTO T-88)	5.5%	23.1%	18.8%	8.2%
Liquid Limit (AASHTO T-89)	21	30	27	39
Plasticity Index (AASHTO T-90)	5	14	10	17
Std. Dry Density pcf (AASHTO T-99)	-	-	-	-
Optimum Moisture (AASHTO T-99)	-	-	-	-
Subgrade Support Rating	POOR	POOR	POOR	POOR
Organic Content	-	-	-	-
Insitu Moisture	16%	20%	14%	25%

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Soil Test Data

Route I-80
Section ---
County Will
Location Chicago Street to Rt. 30

Boring No./Sample No.	SGB-075 S-4	SGB-076 S-3	SGB-081 S-3	SGB-083 S-3
Station	901+02	902+54	910+00	916+00
Offset	65.4 ft Right	27.2 ft Left	25 ft Right	25 ft Right
Depth	6.0'-7.5'	3.5'-5.0'	3.5'-5.0'	3.5'-5.0'
AASHTO Classification	A-6	A-7	A-6	A-6
Illinois Textural Classification	SILTY CLAY	SILTY CLAY	SILTY LOAM	SILTY LOAM
Gradation Passing – 1"	98.2%	100%	100%	100%
¾"	98.2%	100%	100%	100%
½"	98.2%	100%	100%	100%
No. 4	97.7%	100%	100%	100%
No. 10	97.0%	99.6%	99.6%	99.5%
No. 40	94.1%	97.6%	96.9%	96.9%
No. 100	90.4%	94.9%	88.7%	91.4%
No. 200	87.5%	91.1%	82.8%	87.2%
Gravel (AASHTO T-88)	3.0%	0.4%	0.4%	0.5%
Sand (AASHTO T-88)	9.5%	8.5%	16.8%	12.2%
Silt (AASHTO T-88)	56.3%	57.4%	74.6%	78.1%
Clay (AASHTO T-88)	31.2%	33.7%	8.2%	9.2%
Liquid Limit (AASHTO T-89)	33	44	37	38
Plasticity Index (AASHTO T-90)	14	21	13	15
Std. Dry Density pcf (AASHTO T-99)	-	-	-	-
Optimum Moisture (AASHTO T-99)	-	-	-	-
Subgrade Support Rating	FAIR	FAIR	POOR	POOR
Organic Content	-	-	-	4.9%
Insitu Moisture	18%	27%	26%	31%

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
An MBE - DBE Firm

Soil Test Data

Route I-80
Section ---
County Will
Location Chicago Street to Rt. 30

Boring No./Sample No.	SGB-085 S-3	SGB-086 S-4		
Station	924+99	827+80		
Offset	62.8 ft Right	71.1 ft Left		
Depth	3.5'-5.0'	6.0'-7.5'		
AASHTO Classification	A-6	A-6		
Illinois Textural Classification	CLAY LOAM	LOAM		
Gradation Passing – 1"	100%	100%		
¾"	94.679%	91.7%		
½"	94.679%	87.0%		
No. 4	91.8%	83.0%		
No. 10	89.1%	78.8%		
No. 40	82.6%	70.8%		
No. 100	77.8%	65.4%		
No. 200	73.7%	60.8%		
Gravel (AASHTO T-88)	10.9%	21.2%		
Sand (AASHTO T-88)	15.4%	17.9%		
Silt (AASHTO T-88)	46.9%	43.9%		
Clay (AASHTO T-88)	26.7%	17.0%		
Liquid Limit (AASHTO T-89)	36	34		
Plasticity Index (AASHTO T-90)	18	14		
Std. Dry Density pcf (AASHTO T-99)	-	-		
Optimum Moisture (AASHTO T-99)	-	-		
Subgrade Support Rating	POOR	POOR		
Organic Content	-	-		
Insitu Moisture	26%	24%		

APPENDIX G

NCRS SOILS REPORT

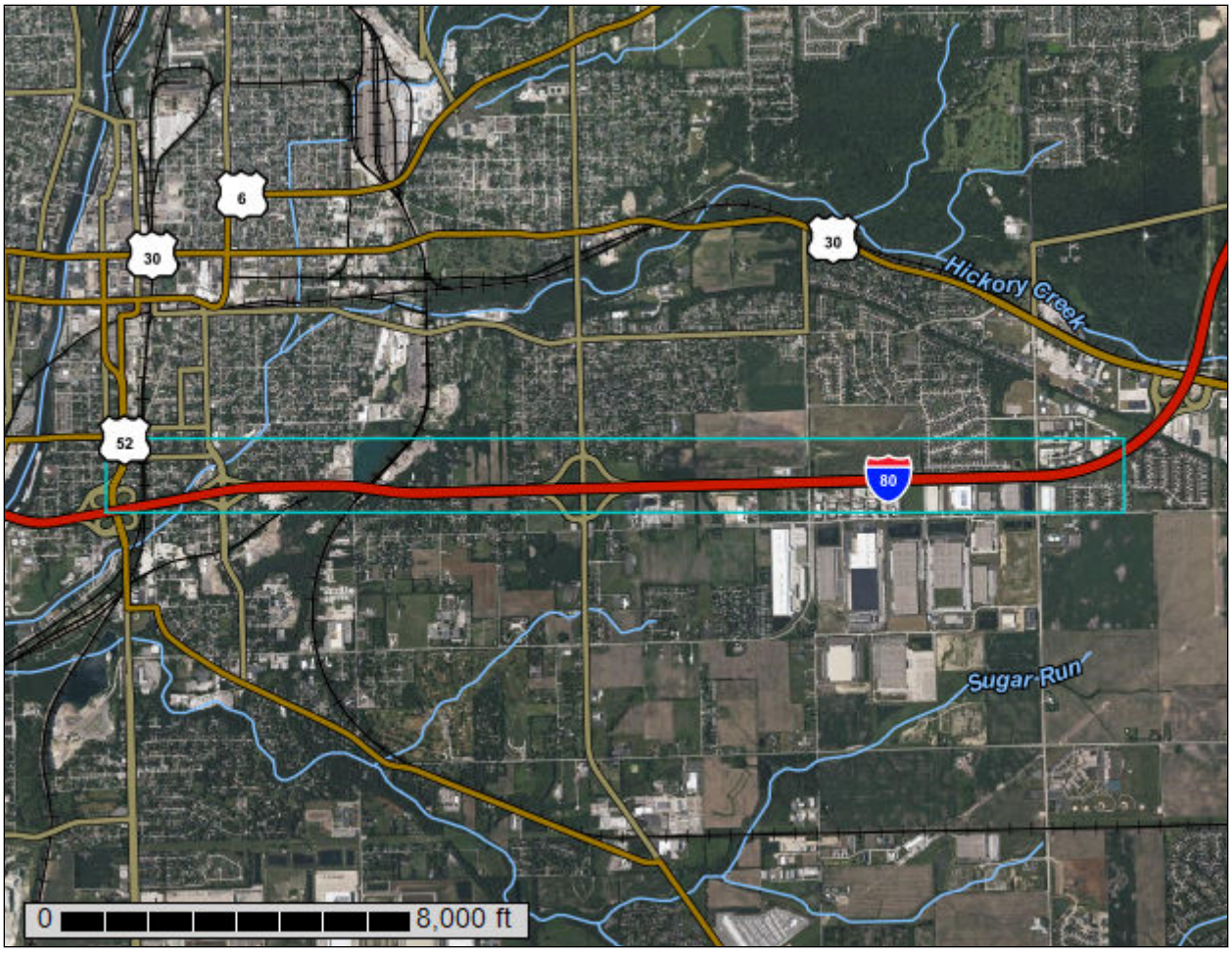
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Will County, Illinois



March 2, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

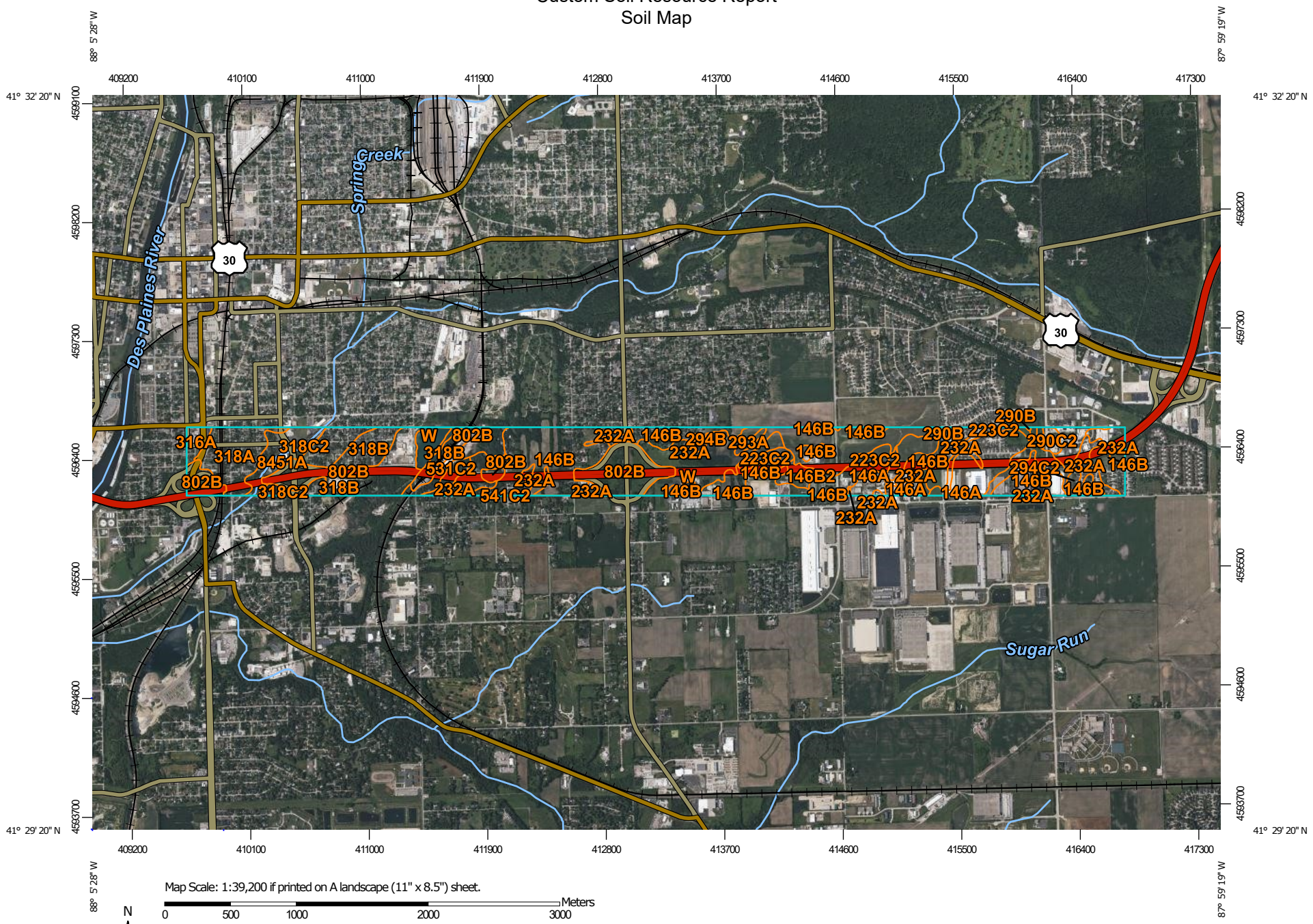
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Will County, Illinois
Survey Area Data: Version 17, Aug 31, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 6, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
146A	Elliott silt loam, 0 to 2 percent slopes	16.1	1.8%
146B	Elliott silt loam, 2 to 4 percent slopes	268.2	29.3%
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded	9.4	1.0%
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	75.0	8.2%
223D2	Varna silt loam, 6 to 12 percent slopes, eroded	6.0	0.7%
232A	Ashkum silty clay loam, 0 to 2 percent slopes	171.9	18.8%
290B	Warsaw silt loam, 2 to 4 percent slopes	2.4	0.3%
290C2	Warsaw silt loam, 4 to 6 percent slopes, eroded	5.8	0.6%
293A	Andres silt loam, 0 to 2 percent slopes	3.7	0.4%
294B	Symerton silt loam, 2 to 5 percent slopes	1.6	0.2%
294C2	Symerton silt loam, 5 to 10 percent slopes, eroded	3.1	0.3%
298B	Beecher silt loam, 2 to 4 percent slopes	15.6	1.7%
316A	Romeo silt loam, 0 to 2 percent slopes	8.7	0.9%
318A	Lorenzo loam, 0 to 2 percent slopes	49.2	5.4%
318B	Lorenzo loam, 2 to 4 percent slopes	41.8	4.6%
318C2	Lorenzo loam, 4 to 6 percent slopes, eroded	26.6	2.9%
530E2	Ozaukee silt loam, 12 to 20 percent slopes, eroded	22.8	2.5%
531C2	Markham silt loam, 4 to 6 percent slopes, eroded	9.4	1.0%
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.0	0.0%
802B	Orthents, loamy, 1 to 6 percent slopes	131.6	14.4%
8451A	Lawson silt loam, heavy till plain, 0 to 2 percent slopes, occasionally flooded	30.9	3.4%
W	Water	13.6	1.5%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Totals for Area of Interest		**914.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Will County, Illinois

146A—Elliott silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2sss0
Elevation: 570 to 930 feet
Mean annual precipitation: 33 to 42 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 150 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Elliott and similar soils: 94 percent
Minor components: 6 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elliott

Setting

Landform: Ground moraines, till plains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Thin mantle of loess or other silty material over silty clay loam till

Typical profile

Ap - 0 to 6 inches: silt loam
A - 6 to 11 inches: silty clay loam
Bt1 - 11 to 16 inches: silty clay
2Bt2 - 16 to 41 inches: silty clay loam
2Cd - 41 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 29 to 45 inches to densic material
Drainage class: Somewhat poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: C/D
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Forage suitability group: Mod AWC, high water table (G095BY004WI), High AWC, high water table (G095BY007WI)

Other vegetative classification: Mod AWC, high water table (G095BY004WI), High AWC, high water table (G095BY007WI)
Hydric soil rating: No

Minor Components

Ashkum, drained
Percent of map unit: 4 percent
Landform: Till plains, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Urban land
Percent of map unit: 1 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Orthents, clayey
Percent of map unit: 1 percent
Landform: Till plains, ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F095XB010WI - Loamy and Clayey Upland
Hydric soil rating: No

146B—Elliott silt loam, 2 to 4 percent slopes

Map Unit Setting
National map unit symbol: 2sss1
Elevation: 570 to 930 feet
Mean annual precipitation: 33 to 42 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 150 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Elliott and similar soils: 94 percent
Minor components: 6 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elliott

Setting

Landform: Ground moraines, till plains
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin mantle of loess or other silty material over silty clay loam till

Typical profile

Ap - 0 to 9 inches: silt loam
A - 9 to 13 inches: silty clay loam
2Bt1 - 13 to 17 inches: silty clay
2Bt2 - 17 to 35 inches: silty clay loam
2Cd - 35 to 60 inches: silty clay loam

Properties and qualities

Slope: 2 to 4 percent
Depth to restrictive feature: 25 to 39 inches to densic material
Drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C/D
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Ashkum, drained

Percent of map unit: 4 percent
Landform: Till plains, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Urban land

Percent of map unit: 1 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear

Across-slope shape: Linear
Hydric soil rating: No

Orthents, clayey

Percent of map unit: 1 percent
Landform: Till plains, ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F095XB010WI - Loamy and Clayey Upland
Hydric soil rating: No

146B2—Elliott silty clay loam, 2 to 4 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2sss2
Elevation: 570 to 930 feet
Mean annual precipitation: 33 to 42 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 150 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Elliott, eroded, and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elliott, Eroded

Setting

Landform: Ground moraines, till plains
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin mantle of loess or other silty material over silty clay loam till

Typical profile

Ap - 0 to 8 inches: silty clay loam
2Bt1 - 8 to 14 inches: silty clay loam
2Bt2 - 14 to 31 inches: silty clay loam
2Cd - 31 to 60 inches: silty clay loam

Properties and qualities

Slope: 2 to 4 percent
Depth to restrictive feature: 24 to 38 inches to densic material
Drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 12 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C/D
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie, R111XD012IN - Till Ridge Prairie
Hydric soil rating: No

Minor Components

Ashkum, drained

Percent of map unit: 5 percent
Landform: Till plains, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

223C2—Varna silt loam, 4 to 6 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2yrqw
Elevation: 520 to 950 feet
Mean annual precipitation: 34 to 42 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 140 to 185 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Varna, eroded, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Varna, Eroded

Setting

Landform: End moraines, ground moraines
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex

Parent material: Loess over silty clay loam or clay loam till

Typical profile

Ap - 0 to 9 inches: silt loam
2Bt1 - 9 to 30 inches: silty clay loam
2Bt2 - 30 to 48 inches: silty clay loam
2Cd - 48 to 60 inches: silty clay loam

Properties and qualities

Slope: 4 to 6 percent
Depth to restrictive feature: 24 to 55 inches to densic material
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie, R108XA006IL - Loess Upland Prairie
Hydric soil rating: No

Minor Components

Ashkum, drained

Percent of map unit: 6 percent
Landform: End moraines, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Orthents, clayey

Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: F095XB010WI - Loamy and Clayey Upland
Hydric soil rating: No

Urban land

Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve

Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

223D2—Varna silt loam, 6 to 12 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2yrqx
Elevation: 510 to 950 feet
Mean annual precipitation: 34 to 42 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 185 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Varna, eroded, and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Varna, Eroded

Setting

Landform: End moraines, ground moraines
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess over silty clay loam or clay loam till

Typical profile

Ap - 0 to 9 inches: silt loam
2Bt1 - 9 to 30 inches: silty clay loam
2Bt2 - 30 to 48 inches: silty clay loam
2Cd - 48 to 60 inches: silty clay loam

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: 24 to 55 inches to densic material
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Forage suitability group: Mod AWC, adequately drained (G095BY005WI)
Other vegetative classification: Mod AWC, adequately drained (G095BY005WI)
Hydric soil rating: No

Minor Components

Ashkum, drained
Percent of map unit: 8 percent
Landform: End moraines, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

232A—Ashkum silty clay loam, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: 2ssrw
Elevation: 520 to 930 feet
Mean annual precipitation: 33 to 41 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 160 to 190 days
Farmland classification: Prime farmland if drained

Map Unit Composition
Ashkum, drained, and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ashkum, Drained

Setting
Landform: End moraines, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Clayey colluvium over till

Typical profile
Ap - 0 to 12 inches: silty clay loam
Bg1 - 12 to 29 inches: silty clay
2Bg2 - 29 to 54 inches: silty clay loam
2Cg - 54 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 25 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C/D
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Minor Components

Peotone, drained

Percent of map unit: 5 percent
Landform: Depressions on ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Orthents, clayey

Percent of map unit: 2 percent
Landform: Ground moraines, lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F095XB010WI - Loamy and Clayey Upland
Hydric soil rating: No

Urban land

Percent of map unit: 1 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

290B—Warsaw silt loam, 2 to 4 percent slopes

Map Unit Setting

National map unit symbol: 8szq
Elevation: 510 to 980 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Warsaw and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Warsaw

Setting

Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin mantle of loess or other silty material and in the underlying loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 24 inches: clay loam
H3 - 24 to 34 inches: gravelly sandy clay loam
H4 - 34 to 60 inches: stratified gravelly loamy sand to extremely gravelly coarse sand

Properties and qualities

Slope: 2 to 4 percent
Depth to restrictive feature: 24 to 40 inches to strongly contrasting textural stratification
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Available water supply, 0 to 60 inches: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B
Ecological site: R110XY006IL - Dry Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Kane
Percent of map unit: 6 percent
Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Urban land
Percent of map unit: 2 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

290C2—Warsaw silt loam, 4 to 6 percent slopes, eroded

Map Unit Setting
National map unit symbol: nrsl
Elevation: 510 to 930 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 140 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Warsaw and similar soils: 92 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Warsaw

Setting
Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Thin mantle of loess or other silty material and in the underlying loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits

Typical profile
H1 - 0 to 8 inches: silt loam
H2 - 8 to 16 inches: silty clay loam
H3 - 16 to 27 inches: gravelly clay loam

H4 - 27 to 60 inches: stratified gravelly loamy sand to extremely gravelly coarse sand

Properties and qualities

Slope: 4 to 6 percent
Depth to restrictive feature: 24 to 40 inches to strongly contrasting textural stratification
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Ecological site: R110XY006IL - Dry Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Will

Percent of map unit:
Landform: Stream terraces, outwash plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY008IL - Wet Glacial Drift Upland Prairie
Hydric soil rating: Yes

293A—Andres silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2t6zx
Elevation: 540 to 860 feet
Mean annual precipitation: 34 to 40 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 155 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Andres and similar soils: 91 percent
Minor components: 9 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Andres

Setting

Landform: Till-floored lake plains, ground moraines
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Thin mantle of loess over loamy outwash over till and/or lacustrine deposits

Typical profile

Ap - 0 to 11 inches: silt loam
Bt1 - 11 to 36 inches: clay loam
2Bt2 - 36 to 50 inches: silty clay loam
2C - 50 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: C/D
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Ashkum, drained

Percent of map unit: 3 percent
Landform: Ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Elliott

Percent of map unit: 3 percent
Landform: Ground moraines
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear

Across-slope shape: Linear
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Reddick, drained

Percent of map unit: 3 percent
Landform: Till-floored lake plains, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

294B—Symerton silt loam, 2 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2ytdr
Elevation: 510 to 900 feet
Mean annual precipitation: 35 to 40 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 159 to 174 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Symerton and similar soils: 91 percent
Minor components: 9 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Symerton

Setting

Landform: Lake plains, ground moraines
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin mantle of loess over loamy outwash over till and/or lacustrine deposits

Typical profile

Ap - 0 to 15 inches: silt loam
Bt1 - 15 to 19 inches: silty clay loam
2Bt2 - 19 to 35 inches: clay loam
3BCk - 35 to 39 inches: silty clay loam
3C - 39 to 79 inches: silty clay loam

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained

Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Ashkum

Percent of map unit: 3 percent
Landform: Ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Reddick

Percent of map unit: 3 percent
Landform: Ground moraines, till-floored lake plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Varna

Percent of map unit: 2 percent
Landform: End moraines, ground moraines
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Urban land

Percent of map unit: 1 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

294C2—Symerton silt loam, 5 to 10 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2ytds
Elevation: 530 to 890 feet
Mean annual precipitation: 34 to 39 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 158 to 171 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Symerton, eroded, and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Symerton, Eroded

Setting

Landform: Lake plains, ground moraines
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Thin mantle of loess over loamy outwash over till and/or lacustrine deposits

Typical profile

Ap - 0 to 8 inches: silt loam
2Bt - 8 to 31 inches: clay loam
3BCk - 31 to 40 inches: silty clay loam
3C - 40 to 79 inches: silty clay loam

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C

Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Ashkum
Percent of map unit: 6 percent
Landform: Ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Andres
Percent of map unit: 1 percent
Landform: Till-floored lake plains, ground moraines
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Reddick
Percent of map unit: 1 percent
Landform: Ground moraines, till-floored lake plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

298B—Beecher silt loam, 2 to 4 percent slopes

Map Unit Setting
National map unit symbol: 2ytq1
Elevation: 520 to 960 feet
Mean annual precipitation: 34 to 41 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 160 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Beecher and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Beecher

Setting

Landform: End moraines, ground moraines
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Side slope, base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess over silty clay loam or clay loam till

Typical profile

Ap - 0 to 13 inches: silt loam
2Bt1 - 13 to 21 inches: silty clay loam
2Bt2 - 21 to 37 inches: silty clay loam
2Cd - 37 to 60 inches: silty clay loam

Properties and qualities

Slope: 2 to 4 percent
Depth to restrictive feature: 24 to 45 inches to densic material
Drainage class: Somewhat poorly drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: D
Ecological site: F095XB005WI - Moist Loamy or Clayey Lowland
Hydric soil rating: No

Minor Components

Ashkum, drained

Percent of map unit: 6 percent
Landform: Ground moraines, end moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: F095XB004WI - Wet Loamy or Clayey Lowland
Hydric soil rating: Yes

Urban land

Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear

Hydric soil rating: No

Orthents, clayey

Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: F095XB010WI - Loamy and Clayey Upland
Hydric soil rating: No

316A—Romeo silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 8t0d
Elevation: 510 to 930 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 140 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Romeo and similar soils: 94 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Romeo

Setting

Landform: Stream terraces
Landform position (two-dimensional): Toeslope
Parent material: Drift over dolostone

Typical profile

H1 - 0 to 8 inches: silt loam
R2 - 8 to 60 inches: bedrock

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 2 to 10 inches to lithic bedrock
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.60 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 20 percent
Available water supply, 0 to 60 inches: Very low (about 1.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: C/D
Ecological site: R110XY002IL - Wet Limestone Prairie
Hydric soil rating: Yes

Minor Components

Millsdale

Percent of map unit:
Landform: Stream terraces, flood plains
Landform position (two-dimensional): Toeslope
Ecological site: R110XY002IL - Wet Limestone Prairie
Hydric soil rating: Yes

318A—Lorenzo loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 8t0g
Elevation: 510 to 930 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 140 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Lorenzo and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lorenzo

Setting

Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Summit
Parent material: Loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits

Typical profile

H1 - 0 to 12 inches: loam
H2 - 12 to 21 inches: clay loam
H3 - 21 to 60 inches: stratified gravelly loamy sand to extremely gravelly coarse sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 12 to 24 inches to strongly contrasting textural stratification
Drainage class: Well drained
Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: B
Ecological site: R110XY006IL - Dry Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Will

Percent of map unit:
Landform: Stream terraces, outwash plains
Landform position (two-dimensional): Toeslope
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

318B—Lorenzo loam, 2 to 4 percent slopes

Map Unit Setting

National map unit symbol: 8t0h
Elevation: 510 to 930 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 140 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Lorenzo and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lorenzo

Setting

Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy outwash over calcareous sand and gravel

Typical profile

H1 - 0 to 9 inches: loam
H2 - 9 to 18 inches: clay loam

H3 - 18 to 60 inches: stratified gravelly loamy sand to extremely gravelly coarse sand

Properties and qualities

Slope: 2 to 4 percent
Depth to restrictive feature: 12 to 24 inches to strongly contrasting textural stratification
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Available water supply, 0 to 60 inches: Low (about 3.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: B
Ecological site: R110XY006IL - Dry Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Will

Percent of map unit:
Landform: Stream terraces, outwash plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY008IL - Wet Glacial Drift Upland Prairie
Hydric soil rating: Yes

318C2—Lorenzo loam, 4 to 6 percent slopes, eroded

Map Unit Setting

National map unit symbol: nrtj
Elevation: 510 to 980 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Lorenzo, eroded, and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lorenzo, Eroded

Setting

Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, tread
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loamy outwash over calcareous sand and gravel

Typical profile

H1 - 0 to 7 inches: loam
H2 - 7 to 16 inches: clay loam
H3 - 16 to 60 inches: stratified gravelly loamy sand to extremely gravelly coarse sand

Properties and qualities

Slope: 4 to 6 percent
Depth to restrictive feature: 12 to 24 inches to strongly contrasting textural stratification
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R110XY006IL - Dry Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components

Kane

Percent of map unit: 6 percent
Landform: Outwash plains, stream terraces
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Urban land

Percent of map unit: 2 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

530E2—Ozaukee silt loam, 12 to 20 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2sn0n
Elevation: 520 to 890 feet
Mean annual precipitation: 31 to 42 inches
Mean annual air temperature: 46 to 53 degrees F
Frost-free period: 135 to 195 days
Farmland classification: Not prime farmland

Map Unit Composition

Ozaukee, eroded, and similar soils: 93 percent
Minor components: 7 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ozaukee, Eroded

Setting

Landform: Ground moraines, end moraines
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loess over wisconsinan age silty and clayey till

Typical profile

Ap - 0 to 6 inches: silt loam
Bt1 - 6 to 11 inches: silty clay loam
2Bt2 - 11 to 27 inches: silty clay
2BCt - 27 to 32 inches: silty clay loam
2Cd - 32 to 60 inches: silty clay loam

Properties and qualities

Slope: 12 to 20 percent
Depth to restrictive feature: 22 to 39 inches to densic material
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C

Ecological site: F110XY011IL - Dry Glacial Drift Upland Forest
Forage suitability group: Mod AWC, adequately drained with limitations (G095BY006WI)
Other vegetative classification: Trees/Timber (Woody Vegetation), Mod AWC, adequately drained with limitations (G095BY006WI)
Hydric soil rating: No

Minor Components

Blount, lake michigan lobe
Percent of map unit: 3 percent
Landform: Ground moraines, end moraines
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F110XY012IL - Moist Glacial Drift Upland Forest
Hydric soil rating: No

Ozaukee, severely eroded
Percent of map unit: 2 percent
Landform: Ground moraines, end moraines
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F110XY012IL - Moist Glacial Drift Upland Forest
Hydric soil rating: No

Urban land
Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

531C2—Markham silt loam, 4 to 6 percent slopes, eroded

Map Unit Setting
National map unit symbol: 2ytps
Elevation: 620 to 920 feet
Mean annual precipitation: 34 to 41 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 160 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Markham, eroded, and similar soils: 90 percent

Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Markham, Eroded

Setting

Landform: End moraines, ground moraines
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loess over silty clay loam till

Typical profile

Ap - 0 to 8 inches: silt loam
2Bt1 - 8 to 21 inches: silty clay loam
2Bt2 - 21 to 32 inches: silty clay loam
2Cd - 32 to 60 inches: silty clay loam

Properties and qualities

Slope: 4 to 6 percent
Depth to restrictive feature: 20 to 55 inches to densic material
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R110XY010IL - Moist Glacial Drift Upland Savanna
Hydric soil rating: No

Minor Components

Ashkum, drained

Percent of map unit: 6 percent
Landform: End moraines, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Urban land

Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve

Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Orthents, clayey

Percent of map unit: 2 percent
Landform: Ground moraines
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: F095XB010WI - Loamy and Clayey Upland
Hydric soil rating: No

541C2—Graymont silt loam, 5 to 10 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2t6zv
Elevation: 540 to 880 feet
Mean annual precipitation: 34 to 42 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 155 to 190 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Graymont, eroded, and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Graymont, Eroded

Setting

Landform: Till plains, ground moraines
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loess over till

Typical profile

Ap - 0 to 8 inches: silt loam
Bt1 - 8 to 30 inches: silty clay loam
2Bt2 - 30 to 38 inches: silty clay loam
2C - 38 to 60 inches: silty clay loam

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R110XY010IL - Moist Glacial Drift Upland Savanna, R108XA006IL - Loess Upland Prairie
Hydric soil rating: No

Minor Components

Elpaso, drained

Percent of map unit: 3 percent
Landform: Till plains, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow, R108XA007IL - Wet Loess Upland Prairie, R108XA008IL - Ponded Loess Sedge Meadow
Hydric soil rating: Yes

802B—Orthents, loamy, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: 2ytf6
Elevation: 510 to 930 feet
Mean annual precipitation: 34 to 40 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 158 to 175 days
Farmland classification: Not prime farmland

Map Unit Composition

Orthents, loamy, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Orthents, Loamy

Setting

Landform: Outwash plains

Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy human-transported material

Typical profile

^A - 0 to 6 inches: loam
^C - 6 to 79 inches: clay loam

Properties and qualities

Slope: 1 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 42 to 60 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: C
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: No

Minor Components

Orthents, clayey, undulating

Percent of map unit: 3 percent
Landform: Outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: No

Urban land

Percent of map unit: 2 percent
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Orthents, loamy-skeletal, undulating

Percent of map unit: 2 percent
Landform: Outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow

Hydric soil rating: No

Houghton, drained

Percent of map unit: 1 percent
Landform: Depressions on lake plains, depressions on outwash plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow
Hydric soil rating: Yes

Drummer, drained

Percent of map unit: 1 percent
Landform: Swales on till plains, swales on outwash plains, stream terraces on till plains, stream terraces on outwash plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: R110XY024IL - Ponded Depressional Sedge Meadow, R108XA013IL - Wet Outwash Prairie, R111XD020IN - Wet Outwash Mollisol
Hydric soil rating: Yes

Pella

Percent of map unit: 1 percent
Landform: Lake plains, ground moraines, outwash plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY008IL - Wet Glacial Drift Upland Prairie
Hydric soil rating: Yes

8451A—Lawson silt loam, heavy till plain, 0 to 2 percent slopes, occasionally flooded

Map Unit Setting

National map unit symbol: 2ww9h
Elevation: 430 to 770 feet
Mean annual precipitation: 36 to 39 inches
Mean annual air temperature: 50 to 52 degrees F
Frost-free period: 164 to 174 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Lawson, heavy till plain, occasionally flooded, and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lawson, Heavy Till Plain, Occasionally Flooded

Setting

Landform: Flood plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty alluvium

Typical profile

Ap - 0 to 14 inches: silt loam
A - 14 to 33 inches: silt loam
Cg - 33 to 79 inches: silt loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 11.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: B/D
Ecological site: F110XY028IL - Silty-Loamy Floodplain Forest, F108XA019IL - Silty Floodplain Forest
Hydric soil rating: No

Minor Components

Sawmill, heavy till plain, occasionally flooded

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R110XY027IL - Ponded Floodplain Marsh, R108XA018IL - Ponded Floodplain Marsh
Hydric soil rating: Yes

W—Water

Map Unit Composition

Water: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

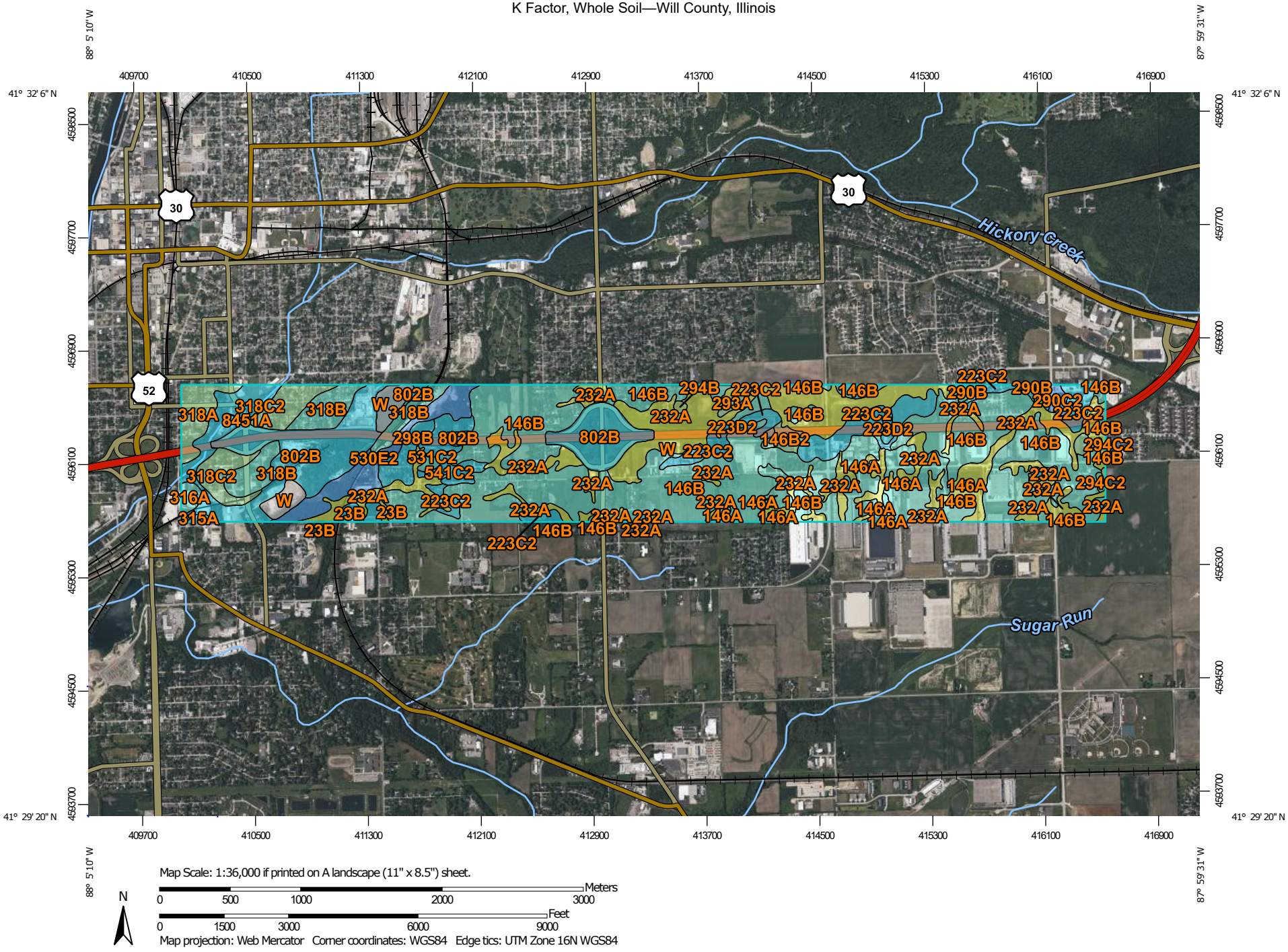
Description of Water

Setting

Landform: Rivers, oxbows, lakes, drainageways, perenial streams, channels

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8w


88° 5' 10" W
87° 59' 31" W
41° 32' 6" N
41° 29' 20" N
409700
410500
411300
412100
412900
413700
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415300
416100
416900
4598500
4597700
4596900
4596100
4595300
4594500
4593700
30
52
Hickory Creek
Sugar Run
318A
318C2
8451A
318B
802B
W
298B
530E2
531C2
541C2
316A
315A
23B
223C2
232A
146B
294B
293A
223D2
146B2
W
223C2
146A
294C2
290B
290C2
Map Scale: 1:36,000 if printed on A landscape (11" x 8.5") sheet.
N
Meters
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500
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Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Soil Rating Lines
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Soil Rating Points
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Will County, Illinois
Survey Area Data: Version 17, Aug 31, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 6, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
23B	Blount silt loam, Lake Michigan Lobe, 2 to 4 percent slopes	.37	8.5	0.5%
146A	Elliott silt loam, 0 to 2 percent slopes	.32	86.0	5.5%
146B	Elliott silt loam, 2 to 4 percent slopes	.32	570.7	36.3%
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded	.28	9.4	0.6%
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	.37	91.4	5.8%
223D2	Varna silt loam, 6 to 12 percent slopes, eroded	.37	6.0	0.4%
232A	Ashkum silty clay loam, 0 to 2 percent slopes	.20	308.8	19.6%
290B	Warsaw silt loam, 2 to 4 percent slopes	.32	3.1	0.2%
290C2	Warsaw silt loam, 4 to 6 percent slopes, eroded	.43	6.2	0.4%
293A	Andres silt loam, 0 to 2 percent slopes	.28	3.7	0.2%
294B	Symerton silt loam, 2 to 5 percent slopes	.24	1.6	0.1%
294C2	Symerton silt loam, 5 to 10 percent slopes, eroded	.28	4.7	0.3%
298B	Beecher silt loam, 2 to 4 percent slopes	.37	15.6	1.0%
315A	Channahon silt loam, 0 to 2 percent slopes	.32	2.0	0.1%
315C2	Channahon silt loam, 4 to 6 percent slopes, eroded	.43	1.2	0.1%
316A	Romeo silt loam, 0 to 2 percent slopes	.32	6.5	0.4%
318A	Lorenzo loam, 0 to 2 percent slopes	.28	27.1	1.7%
318B	Lorenzo loam, 2 to 4 percent slopes	.32	60.2	3.8%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
318C2	Lorenzo loam, 4 to 6 percent slopes, eroded	.28	46.1	2.9%
330A	Peotone silty clay loam, 0 to 2 percent slopes	.24	0.5	0.0%
530E2	Ozaukee silt loam, 12 to 20 percent slopes, eroded	.43	51.7	3.3%
531C2	Markham silt loam, 4 to 6 percent slopes, eroded	.37	19.4	1.2%
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	.37	11.9	0.8%
802B	Orthents, loamy, 1 to 6 percent slopes	.37	166.8	10.6%
8451A	Lawson silt loam, heavy till plain, 0 to 2 percent slopes, occasionally flooded	.37	36.9	2.3%
W	Water		25.9	1.6%
Totals for Area of Interest			**1,572.9**	**100.0%**

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

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