



Department of Public Works
Engineering Division
Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4751
Fax: (608) 264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

Assistant City Engineer

Gregory T. Fries, P.E.
Kathleen M. Cryan

Principal Engineer 2

Christopher J. Petykowski, P.E.
John S. Fahrney, P.E.

Principal Engineer 1

Christina M. Bachmann, P.E.
Mark D. Moder, P.E.

Facilities & Sustainability

Jeanne E. Hoffman, Manager

Mapping Section Manager

Eric T. Pederson, P.S.

Financial Manager

Steven B. Danner-Rivers

February 1, 2018

NOTICE OF ADDENDUM
ADDENDUM NO. 1
CONTRACT NO. 7843
RONALD REAGAN AVENUE , JOHN WALL DRIVE AND MERCHANT STREET
ASSESSMENT DISTRICT – 2017

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

SPECIAL PROVISIONS:

DELETE THE 7TH and 8TH PARAGRAPH OF SECTION 107.7 MAINTENANCE OF TRAFFIC AND REPLACE WITH THE FOLLOWING:

Manufacturers Drive

The contractor shall maintain one (1) lane in each direction of at least eleven (11) feet of width on a hard surface on Manufacturers Drive at all times except during weekend closures. A flagging operation shall be used to direct and maintain two-way traffic when only one (1) lane of at least eleven (11) feet of width is available. Travel lane closures shall only occur on weekdays between 8:30 a.m. and 4:00 p.m. Contractor is allowed two (2) weekend full closures to complete work on Manufacturers Drive; weekend closures cannot coincide with closures on Hoepker Road.

PLANS:

Title Sheet: Updated sheet index with TC-6.

TC-6: Added a traffic control plan for the storm sewer construction on Manufacturers Drive 350' north of Merchant Street.

SOIL BORINGS:

Soil boring information has been included.

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

<http://www.bidexpress.com>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

February 1, 2018
Page 2

office at 608-266-4751 receive the material by another route.

Sincerely,

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke at the end.

Robert F. Phillips, P.E.
City Engineer

RFP:AJZ



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

RONALD REAGAN AVENUE, JOHN WALL DRIVE AND MERCHANT STREET ASSESSMENT DISTRICT - 2017

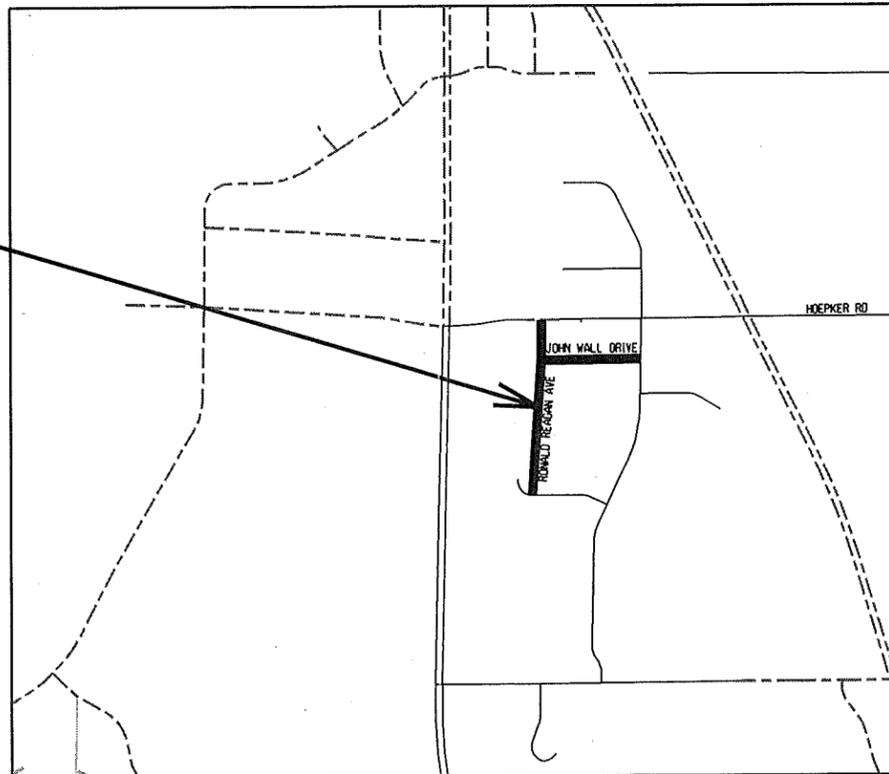
CITY PROJECT NO. 11461

CONTRACT NO. 7843

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE
DI-D2	TYPICAL SECTIONS
D3	PLAN DETAIL
D4	MASS GRADING PLAN
D5	MERCHANT STREET REMOVAL PLAN
A1	ALIGNMENT PLAN
EC1-EC7	EROSION CONTROL PLAN
DD1-DD4	DRAINAGE DITCH PLAN & PROFILES
P1-P8	STREET PLAN & PROFILES
U1-U17	SEWERS PLAN & PROFILES
U18-U20	SEWER SCHEDULES
W1-W7	WATER PLAN & PROFILES
W8	MERCHANT STREET REMOVAL
W9-W10	WATER IMPACT PLANS
W11	WATER ESTIMATE OF MATERIALS & DETAILS
TC1-TC4	DETOUR PLANS
TC5-TC6	TRAFFIC CONTROL PLANS
X1-X18	RONALD REAGAN CROSS SECTIONS
X19-X27	JOHN WALL DRIVE CROSS SECTIONS
X28-X35	MASS GRADING CROSS SECTIONS

PROJECT
LOCATION



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%.

EARTH WORK SUMMARY:

EXCAVATION CUT.....	16,000 C.Y.
TOPSOIL STRIPING.....	67,800 C.Y.
MERCHANT STREET EXCAVATION.....	3,000 C.Y.
ESTIMATED SREET UNDERCUT.....	2,250 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT (MEASURED PLAN QUANTITY).....	89,050 C.Y.

TOTAL FILL BORROW (MEASURED PLAN QUANTITY).....	117,970 C.Y.
TOTAL SELECT FILL (MEASURED PLAN QUANTITY).....	14,000 TON
BREAKER RUN UNDERCUT (MEASURED PLAN QUANTITY).....	4,900 TON

PUBLIC IMPROVEMENT PROJECT APPROVED

JANUARY 2, 2018

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

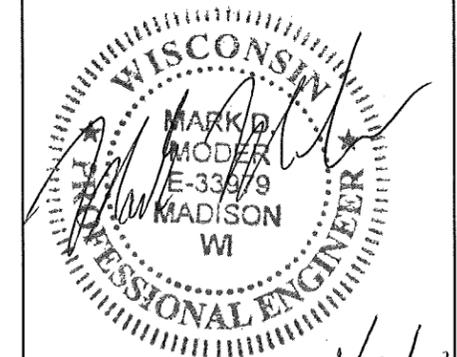

City Engineer

 1/26/18
Date

STREET
DESIGNED BY:



SANITARY SEWER
DESIGNED BY:

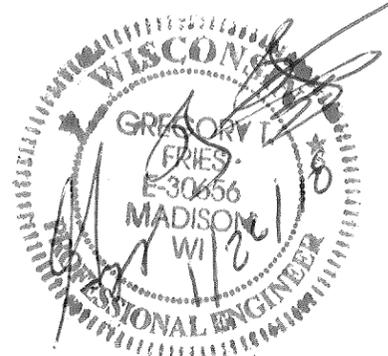


1/26/18

WATER MAIN
DESIGNED BY:



STORM SEWER
DESIGNED BY:



PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____ ORIGINATOR: CITY OF MADISON, STREETS DIVISION

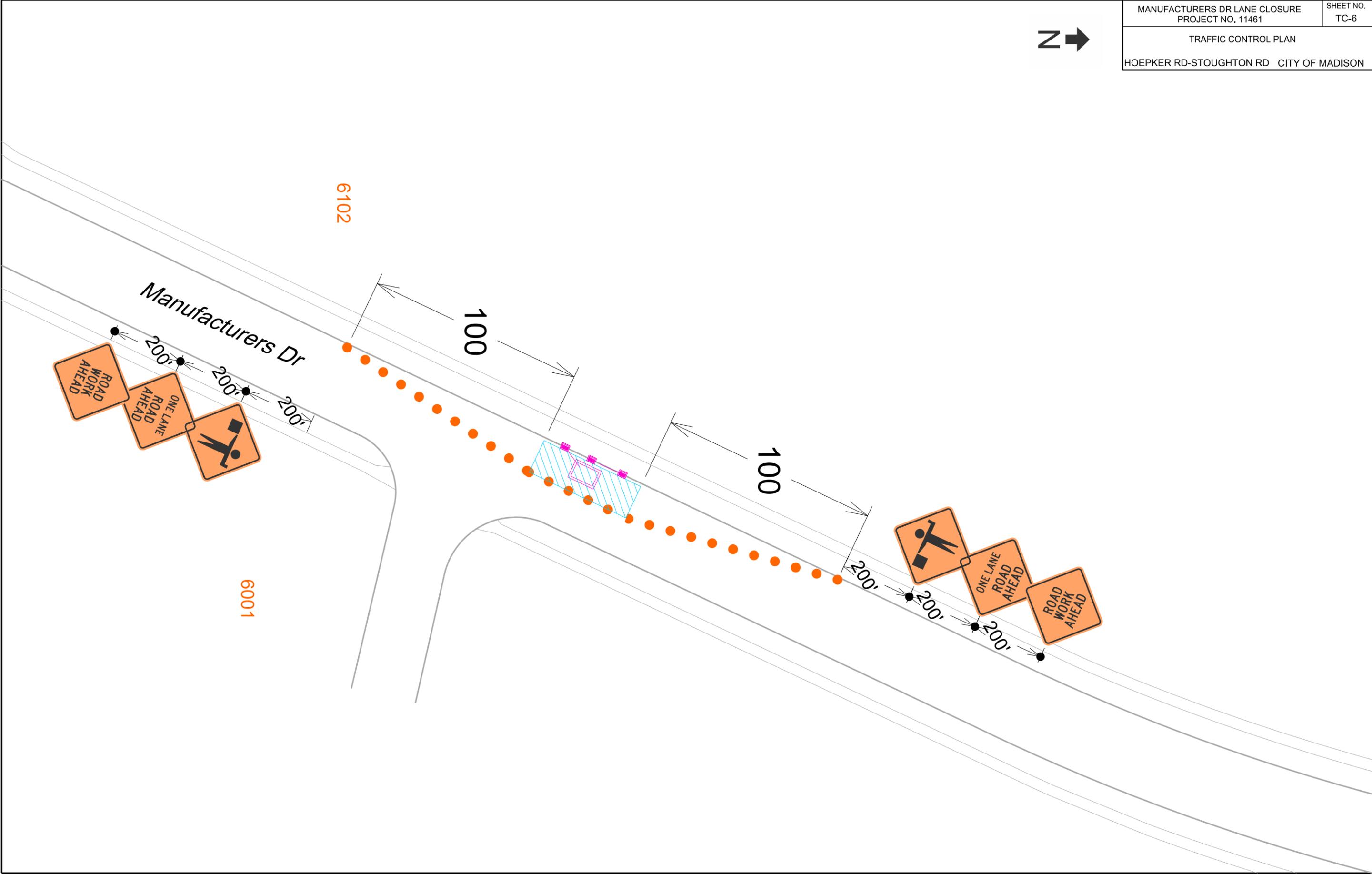


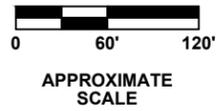
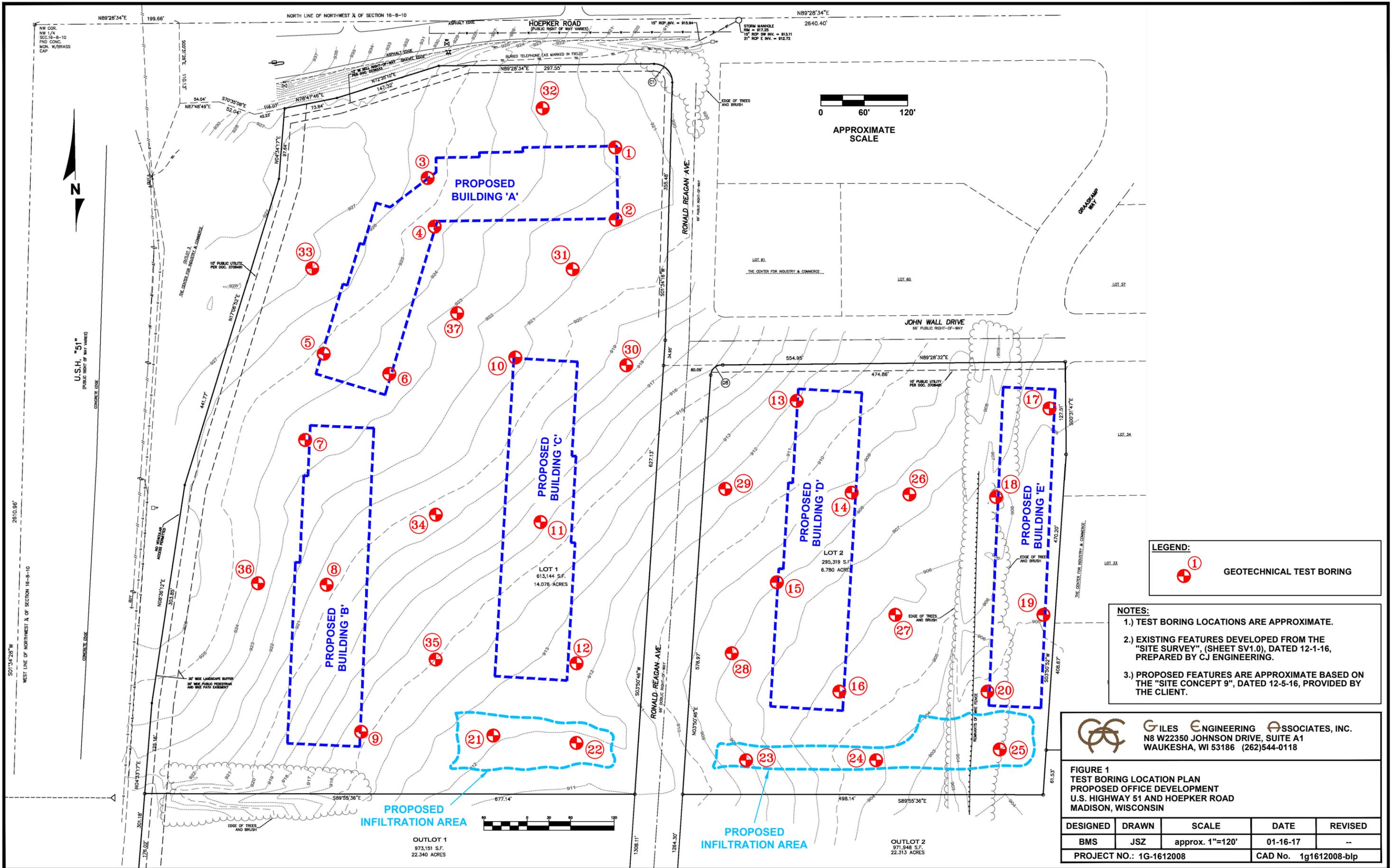
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





LEGEND:

① GEOTECHNICAL TEST BORING

- NOTES:**
- 1.) TEST BORING LOCATIONS ARE APPROXIMATE.
 - 2.) EXISTING FEATURES DEVELOPED FROM THE "SITE SURVEY", (SHEET SV1.0), DATED 12-1-16, PREPARED BY CJ ENGINEERING.
 - 3.) PROPOSED FEATURES ARE APPROXIMATE BASED ON THE "SITE CONCEPT 9", DATED 12-5-16, PROVIDED BY THE CLIENT.

GILES ENGINEERING ASSOCIATES, INC.
 N8 W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 1
 TEST BORING LOCATION PLAN
 PROPOSED OFFICE DEVELOPMENT
 U.S. HIGHWAY 51 AND HOEPKER ROAD
 MADISON, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
BMS	JSZ	approx. 1"=120'	01-16-17	--
PROJECT NO.: 1G-1612008			CAD No. 1g1612008-blp	

BORING NO. & LOCATION: 1	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 921.9 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/23/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
16"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	4		1.5		25		
Brown Silty fine to medium Sand, trace Gravel - Moist		920	2-SS	7				12		
	5		3-SS	6				11		
		915	4-SS	16						
Light Brown fine Sand			5-SS	23				8		
Light Brown fine Sand and Gravel - Moist (Possibly includes Cobbles and Boulders)		910								
	15		6-SS	50/2"						Poor Sample Recovery

Boring Terminated at about 16 feet (EL. 905.9')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 12.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 2	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 921.2 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/23/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
18"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist		920	1-SS	3		1.7		19		
Brown Silty fine to medium Sand, trace Gravel - Moist			2-SS	5				12		
Light Brown Silty fine Sand and Gravel - Moist	5		3-SS	9				8		
Light Gray-Brown Silty fine to coarse Sand and Gravel - Damp (Possibly includes Cobbles and Boulders)		915	4-SS	29						
	10		5-SS	42				7		
		910								
	15		6-SS	50/2"						No Sample Recovery

Boring Terminated at about 16 feet (EL. 905.2')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 13 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 3	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 925.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/23/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
15"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist		925	1-SS	4		1.8		17		
Light Brown Silty fine Sand, trace to little Gravel - Moist			2-SS	6						
	5		3-SS	9				7		
		920	4-SS	13				7		
	10		5-SS	20						
		915	6-SS	25						
	15	910								

Boring Terminated at about 16 feet (EL. 909.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 13.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 4	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 924.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Dark Brown Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty fine Sand - Moist			1-SS	5		2.4		28		
			2-SS	8				12		
Brown fine Sand, little Silt, trace Gravel - Moist	5	920	3-SS	14						
			4-SS	22				8		
	10	915	5-SS	20				8		
	15	910	6-SS	32				7		

Boring Terminated at about 16 feet (EL. 908.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 14 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT 1G1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 5	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 924.9 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist										
Brown fine Sand, little Silt, trace Gravel - Moist			1-SS	3		1.4		24		
			2-SS	10				7		
	5	920	3-SS	15				6		
Brown fine Sand, little Silt, little to some Gravel - Moist			4-SS	34						
	10	915	5-SS	13				8		
	15	910	6-SS	36				8		

Boring Terminated at about 16 feet (EL. 908.9')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 14 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 6	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 923.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
10"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty, Sandy Clay - Moist			1-SS	2		1.2		24		
			2-SS	4		0.5		16		
		920								
		5	3-SS	2		0.7		19		
Brown Silty fine Sand, little Gravel - Very Moist			4-SS	13		0.5		15		
		915								
Light Brown fine Sand, little Silt, and Gravel - Moist			5-SS	15				8		
		10								
		910								
	15		6-SS	39				7		

Boring Terminated at about 16 feet (EL. 907.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 14 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 7	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 923.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
6"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.7		23		
Brown Silty fine Sand, trace Gravel - Moist			2-SS	6				14		
		920								
Light Brown fine Sand, trace to little Gravel, little Silt - Moist (Possibly includes Cobbles and Boulders)	5		3-SS	14				8		
			4-SS	31				6		
		915								
	10		5-SS	28				7		
		910								
	15		6-SS	55						

Boring Terminated at about 16 feet (EL. 907.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 14 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 8	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 920.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
10"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist		920	1-SS	3		1.9		25		
Brown Silty Clay, trace Gravel - Moist			2-SS	4		0.7		12		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5	915	3-SS	15				7		
			4-SS	21				6		
	10		5-SS	25		2.9		7		
	15	905	6-SS	48				7		

Boring Terminated at about 16 feet (EL. 904.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 14.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 9	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 915.4 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
10"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist		915	1-SS	5		2.2		24		
Brown Silty, Sandy Clay, trace Gravel - Moist			2-SS	9		1.7		15		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5	910	3-SS	20				5		
			4-SS	37		2.5		5		
	10	905	5-SS	22		1.7		7		
	15	900	6-SS	20		1.7		9		

Boring Terminated at about 16 feet (EL. 899.4')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 18 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 10	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 921.2 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/23/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
14"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty, Sandy Clay, trace Gravel - Moist		920	1-SS	4		1.8		19		
			2-SS	7		1.5		15		
Light Brown fine Sand, trace Silt and Gravel - Moist	5		3-SS	12				8		
		915								
(Cobbles and Boulders at 8± Feet)			4-SS	33				17		
	10		5-SS	27				8		
		910								
Light Gray Silty Gravel - Damp (Probable Weathered Bedrock)	15		6-SS	50/2"				6		

Boring Terminated at about 16 feet (EL. 905.2')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 12.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 11	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 916.3 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/23/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
16"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist										
Light Brown fine Sand, trace to little Silt, trace Gravel - Moist		915	1-SS	5		2.0		18		
			2-SS	8						
	5		3-SS	15				8		
		910	4-SS	21				7		
Light Gray Sandy Gravel - Damp (Possibly includes Cobbles and Boulders) (Probable Weathered Bedrock)	10		5-SS	50/4"				14		
		905								
Brown Silty fine Sand and Gravel - Moist (Possibly includes Cobbles and Boulders) (Probable Weathered Bedrock)	15		6-SS	50/5"						

Boring Terminated at about 16 feet (EL. 900.3')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 13 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT 1G1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 12	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 912.4 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
7"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	4		2.0		18		
Orange-Brown fine to medium Sand - Moist		910	2-SS	6				13		
Light Brown fine Sand, little Silt and Gravel - Moist	5		3-SS	24						
		905	4-SS	24				7		
	10		5-SS	21				7		
Yellow-Brown fine to medium Sand - Moist (Possible Weathered Bedrock)		900								
	15		6-SS	72						

Boring Terminated at about 16 feet (EL. 896.4')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling:	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 13	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 912 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty, Sandy Clay - Moist		910	1-SS	3		1.7		24		
			2-SS	5		1.2		16		
Light Brown fine Sand, little Silt and Gravel - Moist (Possibly includes Cobbles and Boulders)	5		3-SS	8				9		
		905	4-SS	35				7		
	10		5-SS	38						Poor Sample Recovery
Yellow-Brown fine Sand and Gravel - Damp (Possibly includes Cobbles and Boulders) (Possible Weathered Bedrock)		900								
	15		6-SS	50/3"						

Boring Terminated at about 16 feet (EL. 896')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 14 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 14	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 908.7 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
18"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.5		25		
Brown Silty Clay, little Sand - Moist			2-SS	5		1.2		21		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5	905	3-SS	20						
			4-SS	32						
			5-SS	22				8		
Yellow-Brown fine Sand and Gravel - Moist (Possible Weathered Bedrock)	15	895	6-SS	50/3"						

Boring Terminated at about 16 feet (EL. 892.7')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling:	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 15	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 908 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
6"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.5		28		
Brown Silty, Sandy Clay - Moist to Very Moist			2-SS	7		1.2		17		
	5	905	3-SS	5				19		
Light Brown fine Sand, little Silt, trace Gravel - Moist			4-SS	2				18		
	10	900	5-SS	14				9		
Yellow-Brown fine Sand and Gravel - Damp (Possible Weathered Bedrock)			6-SS	50/5"						
	15	895								

Boring Terminated at about 16 feet (EL. 892')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling:	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 16	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 905.7 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
20"± Topsoil: Dark Brown Silty Clay, trace Sand and Organic Matter - Moist		905	1-SS	2		0.5		27		
Brown Silty, Sandy Clay - Moist			2-SS	6		0.9		16		
	5									
Light Brown fine to coarse Sand, trace Gravel - Moist		900	3-SS	8		0.9		14		
			4-SS	44						
Light Brown Silty fine to coarse Sand and Gravel - Damp (Possibly includes Cobbles and Boulders) (Possible Weathered Bedrock)	10		5-SS	28						
		895								
	15		6-SS	50/2"						
		890								

Boring Terminated at about 16 feet (EL. 889.7')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling:	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 17	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 906.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
4"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.7		23		
Brown Silty, Sandy Clay, trace Gravel - Moist		905	2-SS	9						
Light Brown fine Sand, trace Silt and Gravel - Moist										
Light Brown Silty fine to coarse Sand and Gravel - Moist (Possibly includes Cobbles and Boulders)	5		3-SS	41						
		900								
			4-SS	32						
	10							9		
		895								
	15		5-SS	19						
			6-SS	46				7		

Boring Terminated at about 16 feet (EL. 890.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 13.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 18	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 906.4 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
20"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.2		24		
Brown Silty fine Sand, trace Gravel - Damp		905	2-SS	4				21		
	5		3-SS	11						
		900	4-SS	37				7		
Light Gray Silty fine to coarse Sand and Gravel - Damp (Possibly includes Cobbles and Boulders)			5-SS	26				6		
Light Brown fine Sand, little Silt, trace Gravel - Moist	10		6-SS	32						Poor Sample Recovery
		895								
	15									

Boring Terminated at about 16 feet (EL. 890.4')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 13.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 19	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 905.1 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
20"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		2.1		24		
Light Brown fine Sand, trace Silt and Gravel - Moist (Possibly includes Cobbles and Boulders)			2-SS	13						
	5	900	3-SS	18						
			4-SS	30						
	10	895	5-SS	32						
Light Gray Silty Gravel - Damp (Possible Weathered Bedrock)	15	890	6-SS	50				7		

Boring Terminated at about 16 feet (EL. 889.1')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 13.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 20	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION: 904.8 feet	PROPOSED OFFICE DEVELOPMENT	
COMPLETION DATE: 12/28/16	US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN	
FIELD REP: CHARLES RENS	PROJECT NO: 1G-1612008	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
30"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	2		2.3		22		
Brown Silty, Sandy Clay - Moist			2-SS	8		1.7		26		
	5	900	3-SS	6		1.0		14		
Light Brown fine Sand, little Silt and Gravel - Moist			4-SS	18				5		
	10	895	5-SS	18						
	15	890	6-SS	36		3.2		9		

Boring Terminated at about 16 feet (EL. 888.8')

Water Observation Data	Remarks:
 Water Encountered During Drilling:  Water Level At End of Drilling:  Cave Depth At End of Drilling: 12 ft.  Water Level After Drilling:  Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 21	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 912.2 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
20"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		2.0		24		
Brown Silty Clay, trace Sand - Moist		910	2-SS	6		2.2		23		
Brown Silty, Sandy Clay - Moist	5		3-SS	5		1.1		17		
Light Brown fine Sand, little Silt, trace Gravel - Moist		905	4-SS	19				8		
	10		5-SS	13				10		
		900								
	15		6-SS	15						
		895								
	20		7-SS	34				8		

Boring Terminated at about 21 feet (EL. 891.2')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 18.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 22	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 911.8 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
18"± Topsoil: Dark Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	5		2.1		18		
Light Brown fine to coarse Sand and Gravel - Moist (Possibly includes Cobbles and Boulders)		910	2-SS	44						
	5		3-SS	51						
		905	4-SS	45						
	10		5-SS	71						
		900								
Light Brown fine Sand, little Silt and Gravel - Moist (Possible Weathered Bedrock)	15		6-SS	34						Poor Sample Recovery
		895								
	20		7-SS	29		1.8		9		

Boring Terminated at about 21 feet (EL. 890.8')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 18 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 23	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 908.1 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	2		1.4		25		
Brown Silty, Sandy Clay, trace Gravel - Moist			2-SS	5		1.2		13		
Light Brown fine Sand, little Silt and Gravel - Moist	5		3-SS	6				8		
		900	4-SS	45				6		
	10		5-SS	18						No Sample Recovery
Yellow-Brown fine Sand and Gravel - Moist (Possible Weathered Bedrock)		895								
	15		6-SS	50/3"						No Sample Recovery
		890								
	20		7-SS	50/4"						

Boring Terminated at about 21 feet (EL. 887.1')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 19 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 24	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 904.2 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
15"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.9		24		
Brown Silty, Sandy Clay - Moist			2-SS	6		2.2		20		
	900									
Brown fine to medium Sand and Gravel, trace Silt - Moist	5		3-SS	15						
			4-SS	28						
		895								
Light Brown fine Sand, little Silt, trace Gravel - Moist	10		5-SS	18				9		
		890								
Orange-Brown fine Sand, trace Gravel - Moist (Possibly includes Cobbles and Boulders) (Possible Weathered Bedrock)	15		6-SS	50/3"						
		885								
	20		7-SS	50/2"						

Boring Terminated at about 21 feet (EL. 883.2')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 18.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 25	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 904.4 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.7		23		
Brown Silty Clay - Moist to Very Moist			2-SS	9		1.5		19		
	5	900	3-SS	18				20		Poor Sample Recovery
			4-SS	29						
Light Brown Silty fine Sand, little Gravel - Moist (Possible Weathered Bedrock)	10	895	5-SS	50/4"				13		
	15	890	6-SS	70						
Yellow-Brown fine Sand - Moist (Possible Weathered Bedrock)	20	885	7-SS	50/2"						

Boring Terminated at about 21 feet (EL. 883.4')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling:	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 26	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 907.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
24"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	2		2.2		22		
Brown Silty, Sandy Clay - Moist		905	2-SS	6		2.2		22		
Light Brown fine Sand, little Silt, trace Gravel - Moist (Possibly includes Cobbles and Boulders)	5		3-SS	13						
		900	4-SS	22						
Light Gray Silty Gravel - Damp (Possible Weathered Bedrock)	10		5-SS	50/2"						Poor Sample Recovery

Boring Terminated at about 11 feet (EL. 896.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 9 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 27	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 905.9 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
4"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist		905	1-SS	3		1.8		24		
Brown Silty, Sandy Clay - Moist			2-SS	10		0.9		19		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5	900	3-SS	19						
Light Brown fine Sand - Moist			4-SS	32						
Light Brown fine Sand, trace Silt and Gravel - Moist	10	895	5-SS	19						

Boring Terminated at about 11 feet (EL. 894.9')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 8.5 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 28	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 908 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
20"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	2		1.2		24		
Brown Silty, Sandy Clay - Moist		905	2-SS	5		0.5		15		
Brown fine Sand, little Silt - Moist	5		3-SS	6						
Brown Silty fine to coarse Sand and Gravel - Moist		900	4-SS	17						
	10		5-SS	39						

Boring Terminated at about 11 feet (EL. 897')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 8 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 29	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 911.7 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty, Sandy Clay - Moist		910	1-SS	4		1.2		26		
			2-SS	4		0.9		17		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5	905	3-SS	17						
			4-SS	27				8		
			5-SS	18		1.6				

Boring Terminated at about 11 feet (EL. 900.7')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 8 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 30	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 918.4 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
6"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		1.3		24		
Brown Silty, Sandy Clay - Moist			2-SS	20				9		
		915								
Light Brown fine Sand, little Silt, trace Gravel - Moist (Possibly includes Cobbles and Boulders)	5		3-SS	25						
			4-SS	50/3"						No Sample Recovery
		910								
	10		5-SS	39						

Boring Terminated at about 11 feet (EL. 907.4')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 9 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 31	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 921.1 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/23/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
16"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist		920	1-SS	5		1.7		15		
Brown Silty, Sandy Clay - Moist			2-SS	6		1.2		14		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5		3-SS	9						
		915								
			4-SS	13				7		
	10		5-SS	18						

Boring Terminated at about 11 feet (EL. 910.1')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 9 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 32	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 922.9 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/28/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: KEITH FLOWERS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
14"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	4		2.3		14		
Light Brown fine Sand, little Silt, trace Gravel - Moist		920	2-SS	6						
		5	3-SS	13						
		915	4-SS	22				7		
	10		5-SS	29						

Boring Terminated at about 11 feet (EL. 911.9')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 9 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 33	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 927 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
17"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	4		1.7		22		
Brown Silty, Sandy Clay - Moist		925	2-SS	5		0.5		16		
Light Brown fine Sand, little Silt, trace Gravel - Moist	5		3-SS	13						
		920	4-SS	25				8		
	10		5-SS	27						

Boring Terminated at about 11 feet (EL. 916')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 9 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 34	TEST BORING LOG	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 918.5 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Brown Silty Clay, trace Sand and Organic Matter - Moist			1-SS	3		2.9		22		
Brown Silty fine Sand - Moist			2-SS	3				11		
	5	915	3-SS	4						
			4-SS	23						
Light Brown fine Sand, trace Silt and Gravel - Moist (Possibly includes Cobbles and Boulders) (Possible Weathered Bedrock)			5-SS	59						
	10	910								

Boring Terminated at about 11 feet (EL. 907.5')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 7 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

BORING NO. & LOCATION: 35	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION: 915 feet	PROPOSED OFFICE DEVELOPMENT	
COMPLETION DATE: 12/22/16	US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN	
FIELD REP: JAMES BLAIR	PROJECT NO: 1G-1612008	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Dark Brown Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty, Sandy Clay - Moist			1-SS	5		2.4		22		
			2-SS	7		2.5		17		
Light Brown fine Sand, little Silt and Gravel - Moist (Possibly includes Cobbles and Boulders)	5	910	3-SS	13						
			4-SS	25						
	10	905	5-SS	20						

Boring Terminated at about 11 feet (EL. 904')

Water Observation Data	Remarks:
 Water Encountered During Drilling:  Water Level At End of Drilling:  Cave Depth At End of Drilling: 7.5 ft.  Water Level After Drilling:  Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: 36	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 923.9 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/22/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: JAMES BLAIR			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist										
Light Brown fine Sand, little Silt, trace Gravel - Moist			1-SS	5		2.5		19		
			2-SS	13						
		920								
		5	3-SS	15						
			4-SS	42				6		
		915								
	10	5-SS	37							

Boring Terminated at about 11 feet (EL. 912.9')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 7 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GILES LOG REPORT: 1G-1612008.GPJ GILES.GDT 1/17/17

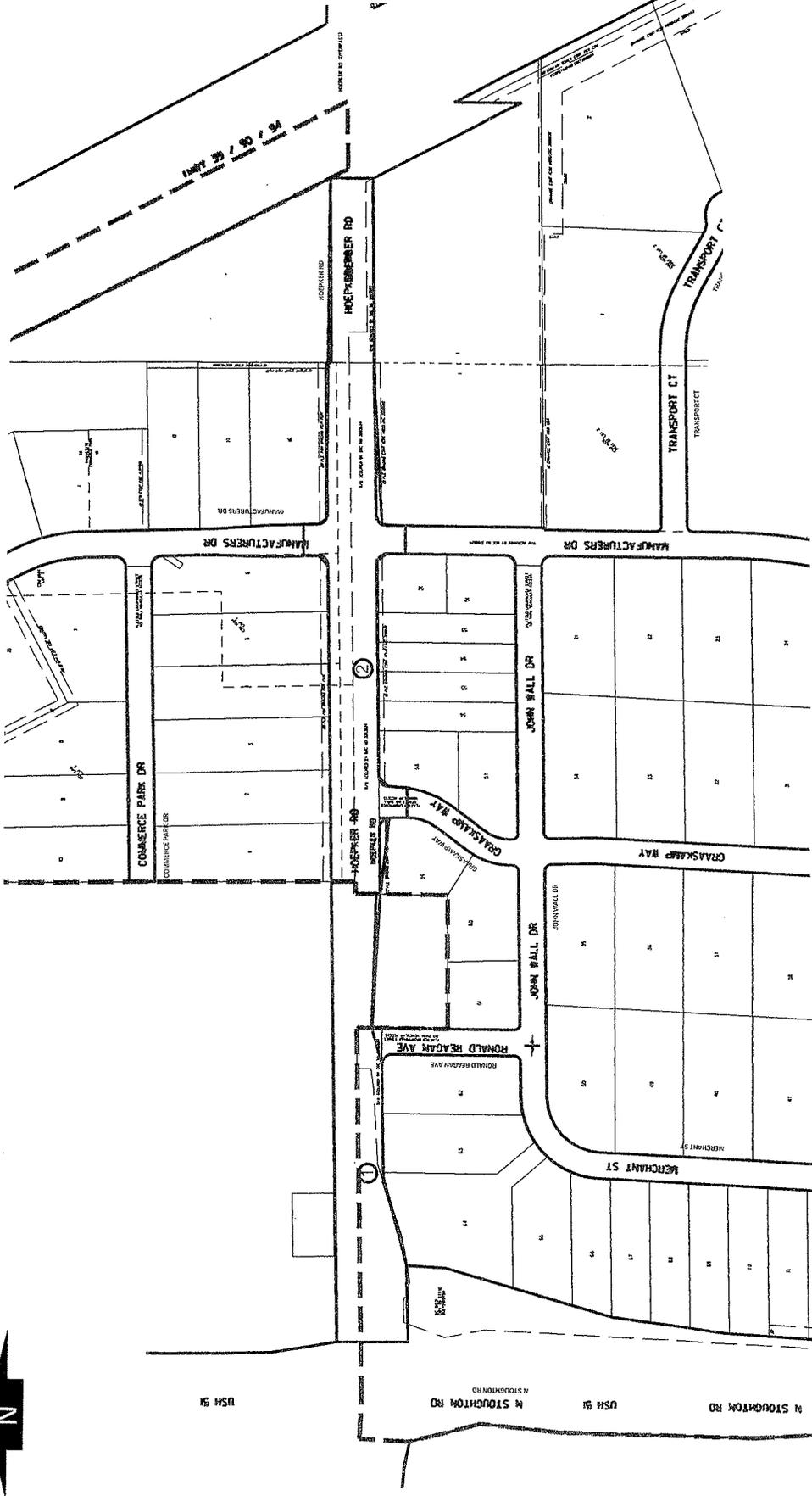
BORING NO. & LOCATION: 37	<h1>TEST BORING LOG</h1>	 GILES ENGINEERING ASSOCIATES, INC.	
SURFACE ELEVATION: 922.8 feet			PROPOSED OFFICE DEVELOPMENT
COMPLETION DATE: 12/27/16			US HIGHWAY 51 AND HOEPKER ROAD MADISON, WISCONSIN
FIELD REP: CHARLES RENS			PROJECT NO: 1G-1612008

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q _u (tsf)	Q _p (tsf)	Q _s (tsf)	W (%)	PID	NOTES
12"± Topsoil: Black Silty Clay, trace Sand and Organic Matter - Moist										
Brown Silty, Sandy Clay - Moist			1-SS	2		1.7		24		
		920	2-SS	5		0.6		15		
Light Brown fine Sand, little Silt, trace Gravel - Moist (Possibly includes Cobbles and Boulders)										
	5		3-SS	8		2.2				
		915	4-SS	31				7		
	10		5-SS	21						

Boring Terminated at about 11 feet (EL. 911.8')

Water Observation Data		Remarks:
	Water Encountered During Drilling:	
	Water Level At End of Drilling:	
	Cave Depth At End of Drilling: 9 ft.	
	Water Level After Drilling:	
	Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.



Legend

② Denotes Boring Location (approximate)

Notes

1. Soil borings performed by Badger State Drilling in December 2014

SOIL BORING LOCATION PLAN
Hoepker Road
Madison, Wisconsin

CDC, Inc.

DWN: -	APP'D: MNS	Date: 12/14	C14051-41
--------	------------	-------------	-----------



LOG OF TEST BORING

Project Hoepker Road
 Location Madison, Wisconsin

Boring No. 1
 Surface Elevation (ft) _____
 Job No. C14051-41
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					0	4 in. Asphalt Pavement/8 in. Base Course				
1		12	M	12	1	FILL: Brown Clay with Silt and Gravel				
					2	Very Stiff, Brown Lean CLAY, Trace Sand (CL)				
2		8	M	11	3	(2.5)				
					4					
3		16	M	21	5					
					6					
4		12	M	29	10					
					11					
5		14	M	28	15					
					16					
					17					
					18					
					19					
					20					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> <u>NW</u> Upon Completion of Drilling _____ Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>12/10/14</u> End <u>12/10/14</u> Driller <u>BSD</u> Chief <u>JF</u> Rig <u>CME-55</u> Logger <u>MG</u> Editor <u>ESF</u> Drill Method <u>2.25" HSA</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



LOG OF TEST BORING

Project Hoepker Road
 Location Madison, Wisconsin

Boring No. 2
 Surface Elevation (ft) _____
 Job No. C14051-41
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					0	7 in. Asphalt/6 in. Base Course				
1		0	M	8	0	FILL: Brown Clay with Sand and Gravel				
2		4	M	5	5	Loose, Brown Fine to Medium SAND, Little Silt and Clay, Trace Gravel (SP-SM/SP-SC)				
3		12	M	29	10	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
4		16	M	18	15	Probable Weathered to Competent Brown Sandy Dolomitic Limestone BEDROCK				
5		2	M	50/2"	15	End Boring at 14 ft due to auger refusal on competent bedrock				
					20	Borehole backfilled with bentonite chips				

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling NW Upon Completion of Drilling _____
 Time After Drilling _____
 Depth to Water _____
 Depth to Cave in _____

Start 12/10/14 End 12/10/14
 Driller BSD Chief JF Rig CME-55
 Logger MG Editor ESF
 Drill Method 2.25" HSA

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