

Notes

1. Base map provided by City of Madison.
2. Soil borings drilled by Badger State Drilling in December 2007

Legend

- ② Denotes Boring Location

SOIL BORING LOCATION MAP
 Arbor Drive Area
 Madison, Wisconsin

CGC, Inc.

DWN: -	APP'D: MNS	Date: 1/08	C07022-30
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LOG OF TEST BORING

Project Arbor Drive Area
Arbor: 370'SW of Pickford, 7'SE of Centerline
 Location Madison, Wisconsin

Boring No. 1
 Surface Elevation (ft) _____
 Job No. C07022-30
 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	LI
					5	X	5 in. Asphalt Pavement/6 in. Base Course				
1	█	16	M	25	15	█	FILL: Brown Fine Sand, Some Silt				
2	█	14	M	20	10	█	Gray Lean CLAY, Some Sand (CL) (Possible Fill)				
3	█	16	M	13	5	█	(1.5)				
4	█	16	W	10	0	█	Loose to Medium Dense, Light Brown Fine SAND, Some Silt and Gravel (SM)				
5	█	14	W	31	0	█	Dense, Brown Fine to Coarse SAND, Trace Gravel and Silt (SP)				
					15		End Boring at 15 ft				
					20		Borehole backfilled with bentonite chips				

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ∇ 8.5' Upon Completion of Drilling _____
 Time After Drilling _____ 1/4 hr
 Depth to Water _____ 10.5' ∇
 Depth to Cave in _____ 12.0'

Start 12/20/07 End 12/20/07
 Driller Badger Chief MA Rig D-120
 Logger BR Editor ESF
 Drill Method 4 1/4" HSA

The stratification lines represent the approximate boundary between
 precision may be gradual.



LOG OF TEST BORING

Project Arbor Drive Area
Pickford: 180'NW of Arbor, 7'NE of Centerline
 Location Madison, Wisconsin

Boring No. 2
 Surface Elevation (ft) _____
 Job No. C07022-30
 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/5 in. Base Course				
1		16	M	20	0	FILL: Brown Sand and Gravel, Trace Silt and Clay				
2		18	M	7	5	Loose, Dark Gray Sandy SILT, Some Clay (ML) Occasional Plant Fibers				
3		16	M	5	10	Very Loose to Loose, Black Sedimentary PEAT (PT)				
4		18	M	7	10	Medium Stiff, Gray Lean CLAY, Trace Organics (CL)				
5		18	M	19	15	Medium Dense, Light Brown SILT, Trace Sand (ML) Occasional Sandy and Clayey Lenses				
					15	End Boring at 15 ft Borehole backfilled with bentonite chips				
					20					

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling NW Upon Completion of Drilling _____
 Time After Drilling _____ 1/4 hr _____
 Depth to Water _____ 12.0'
 Depth to Cave in _____

Start 12/20/07 End 12/20/07
 Driller Badger Chief MA Rig D-120
 Logger BR Editor ESF
 Drill Method 4 1/4" HSA

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



LOG OF TEST BORING

Project Arbor Drive Area
 Arbor: 315'NE of Pickford, 9'SE of Centerline
 Location Madison, Wisconsin

Boring No. 3
 Surface Elevation (ft) _____
 Job No. C07022-30
 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
					6 in. Asphalt Pavement/6 in. Base Course					
1		16	M	10	FILL: Brown and Gray Clay, Some Sand and Gravel Sample 1 Frozen to 1.5 ft	(0.75)				
2		0	M	11						
3		14	M/W	9	Loose, Brown and Gray Silty Fine SAND, Some Gravel (SM)					
4		12	M	10	Loose to Medium Dense, Dark Gray Sandy SILT, Some Clay, Trace Gravel and Organics (ML)					
					Medium Dense, Light Brown Fine SAND, Little Silt (SP-SM)					
5		10	M	24						
					End Boring at 15 ft					
					Borehole backfilled with bentonite chips					

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ∇ 13.5' Upon Completion of Drilling _____
 Time After Drilling _____ 1/4 hr
 Depth to Water _____ 12.0' ∇
 Depth to Cave in _____

Start 12/20/07 End 12/20/07
 Driller Badger Chief MA Rig D-120
 Logger BR Editor ESF
 Drill Method 4 1/4" HSA

The stratification lines represent the approximate boundary between the gradual.



LOG OF TEST BORING

Project Arbor Drive Area
 Knickerbocker: 150'NW of Arbor, 10'SW of Centerline
 Location Madison, Wisconsin

Boring No. 4
 Surface Elevation (ft) _____
 Job No. C07022-30
 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	2 in. Asphalt Pavement/4 in. Base Course/6" Concrete Pavement				
1		18	M	11	1	FILL: Brown and Gray Clay, Some Sand and Gravel				
2		18	M	9	9	Stiff, Black Silty CLAY to Sedimentary PEAT (CL-PT)				
3		14	M	8	8	Stiff, Gray Lean to Sandy CLAY, Trace Gravel and Organics (CL) Occasional Lenses and Seams of Fine Sand				
4		16	M	30	30	Medium Dense to Dense, Light Brown Fine SAND, Some Silt and Gravel (SM)				
5		16	W	32	32	End Boring at 15 ft Borehole backfilled with bentonite chips				

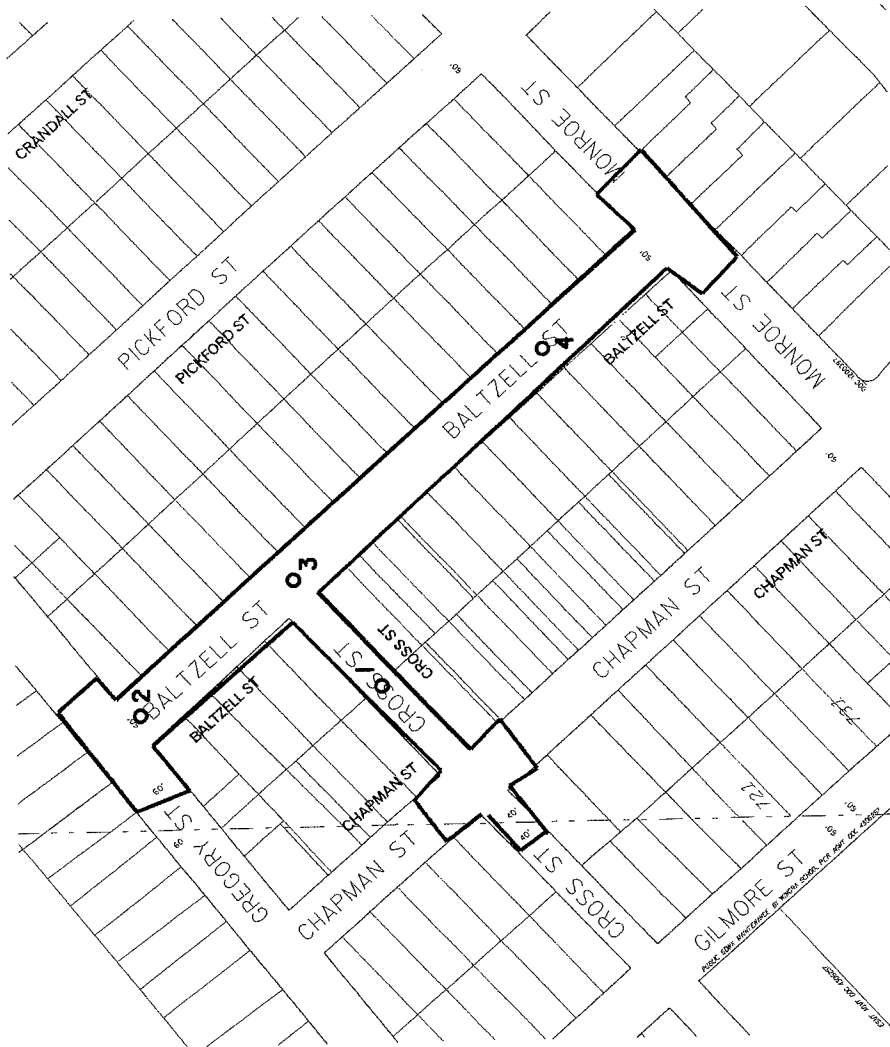
WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling 13.5' Upon Completion of Drilling 7.5'
 Time After Drilling _____ 1/4 hr
 Depth to Water _____ 11.5'
 Depth to Cave in _____

Start 12/20/07 End 12/20/07
 Driller Badger Chief MA Rig D-120
 Logger BR Editor ESF
 Drill Method 4 1/4" HSA

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



Legend

- Denotes Boring Location (approximate)

Notes

1. Soil borings performed by Badger State Drilling in September 2011

SOIL BORING LOCATION PLAN
Baltzell and Cross Streets
Madison, Wisconsin



DWN: -	APP'D: MNS	Date: 10/11	C11054-26
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LOG OF TEST BORING

Project Baltzell and Cross Streets
Baltzell: 100'NW of Monroe, 7'NE of CL
 Location Madison, Wisconsin

Boring No. 4
 Surface Elevation (ft) 92.3*
 Job No. C11054-26
 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.	DEPTH (ft)	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL	LI
					0	3" Asphalt Pavement/5" Concrete Pavement/6" Base Course					
1	16	M	14		1	Very Stiff, Brown Sandy Lean CLAY; Some Gravel (CL) (Possible Fill)	(3.5)				
					2	Medium Dense, Brown Fine SAND; Some Clay (SC)					
2	14	M	23		3	Medium Dense, Light Brown Fine SAND; Some Silt (SM)					
					4	Dense, Brown Silty Fine SAND (SM)					
3	16	M/W	32	▽	5	Dense, Brown Fine SAND; Little to Some Silt (SP-SM/SM)					
					6	Dense, Brown Sandy SILT (ML)					
4	14	W	46		7	End of Boring at 15 ft Backfilled with Bentonite Chips					
					8	* Elevation determined using an assumed datum of 100.0 ft referencing the top nut of a hydrant situated at the intersection of Baltzell and Cross.					
5	18	W	41		9						

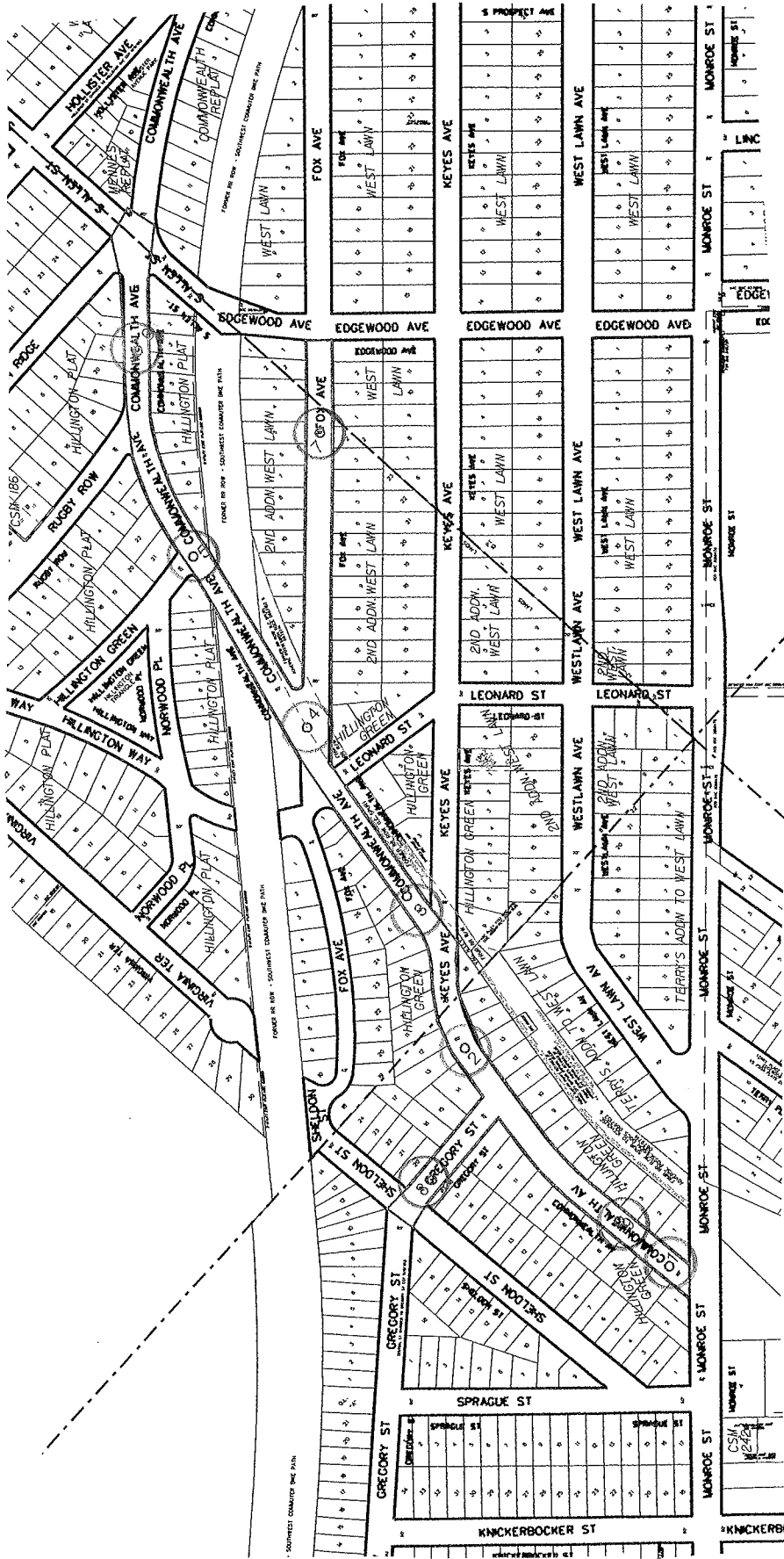
WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ▽ 6.5' Upon Completion of Drilling 11'
 Time After Drilling _____ 5 min.
 Depth to Water _____ ▽
 Depth to Cave in _____ 11'

Start 9/14/11 End 9/14/11
 Driller BSD Chief AP Rig D-120
 Logger KD Editor ESF
 Drill Method 2.25" HSA

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



Legend



Denotes Boring Location (approximate)

Notes

1. Soil borings performed by Badger State Drilling in October 2013



SOIL BORING LOCATION PLAN
 Commonwealth Avenue Area
 Madison, Wisconsin

CGC, Inc.

APP'D: MNS
 Date: 12/13
 C13064-18

DWN: -



LOG OF TEST BORING

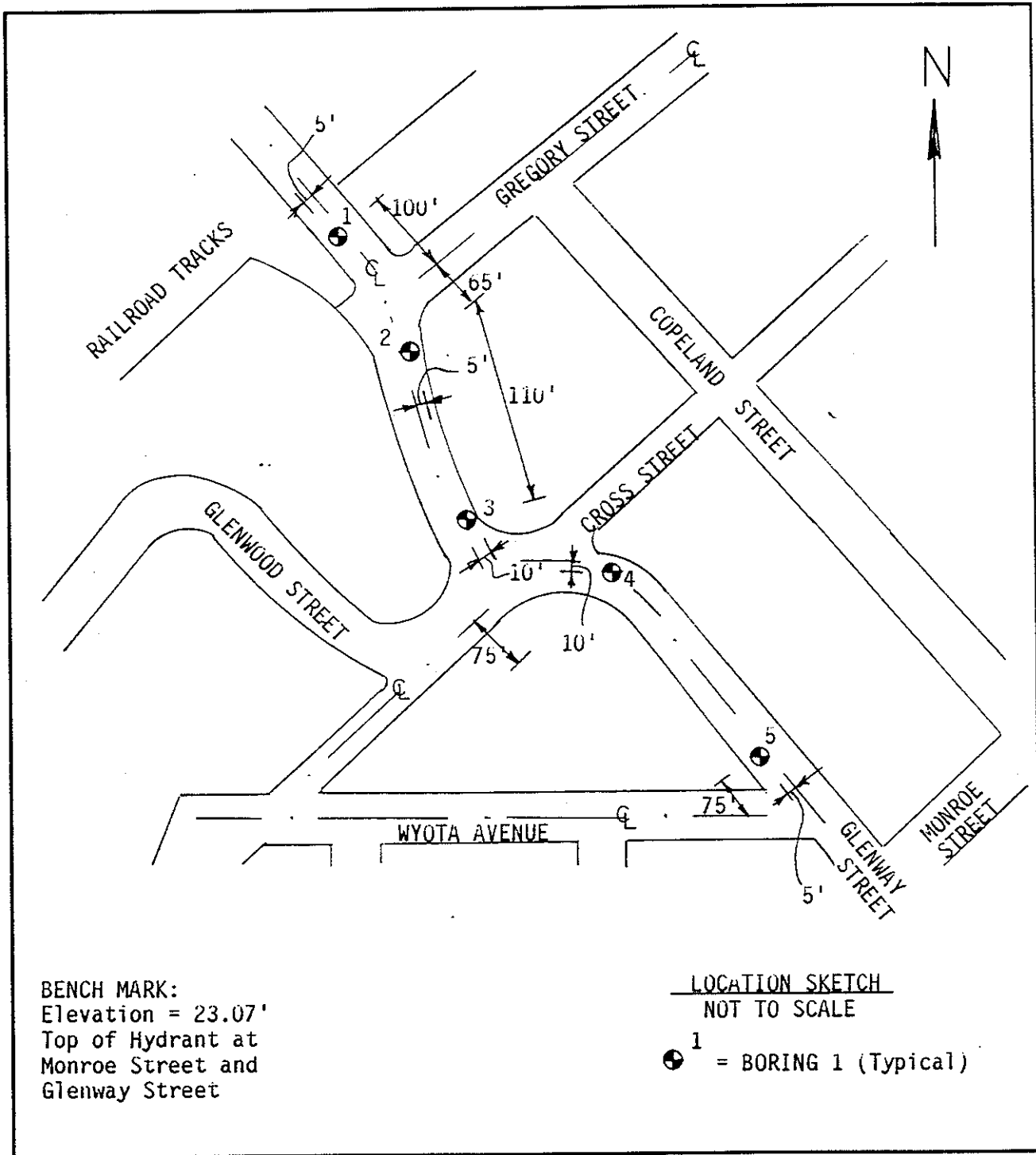
Project Commonwealth Avenue
250'N of Monroe, 7'E of CL
 Location Madison, Wisconsin

Boring No. 9
 Surface Elevation (ft) 88.5*
 Job No. C13064-18
 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	LI
1		10	M	7	5	3" Asphalt Pavement/6.5" Concrete Pavement/2" Base Course Very Stiff, Brown Lean CLAY (CL)	(2.25)				
2		14	M	6	6		(3.25)				
3		18	M	7	7	Loose, Brown Fine to Medium SAND, Some Silt and Clay (SM/SC)					
4		14	M	38	10	Dense, Brown Fine to Medium Sand, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
					12	Weathered to Competent, Sandy Dolomitic LIMESTONE Bedrock					
					15	End boring at 12 ft due to auger refusal on competent bedrock Borehole backfilled with bentonite chips and asphalt patch					
					20	*Elevation determined using an assumed datum of 100.0 ft referencing the top nut of a hydrant situated at the intersection of Commonwealth and Gregory					
					25						

WATER LEVEL OBSERVATIONS					GENERAL NOTES					
While Drilling	<input checked="" type="checkbox"/>	NW	Upon Completion of Drilling	<input type="checkbox"/>	Start	10/23/13	End	10/23/13		
Time After Drilling					Driller	Badger	Chief	MC	Rig	CME-55
Depth to Water				<input checked="" type="checkbox"/>	Logger	JM	Editor	ESF		
Depth to Cave in					Drill Method	2 1/4" HSA				
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.										



SOILS & ENGINEERING SERVICES, INC.
 MADISON, WISCONSIN



SOIL BORING LOCATION

- Glenway Street
- Monroe Street to Railroad Tracks
- Madison, Wisconsin

DRAWING 11450.10-1

BORING: 4
 ELEVATION: 42.58

BORING COMPLETED: 2/15/96

ELEVATION FEET	DEPTH FEET	BLOW COUNTS	RECOV. SAMPLE	LITHO.	DESCRIPTION OF MATERIALS	LAB RESULTS, REMARKS
					FILL MATERIAL Bituminous pavement 0'0" to 0'4" Base course 0'4" to 1'0"	
	21				LEAN CLAY (CL) Brown Frozen to 3'0"	frozen sample
40						
	5					qp=1.0, 2.0 moist
	5				SILTY FINE SAND WITH GRAVEL (SM)	
	8				Brown Dry at completion	moist
					End of boring	
	10					
	30					

SOILS & ENGINEERING SERVICES, INC.
 MADISON, WISCONSIN

FOR NOTES AND LEGEND SEE DRAWING 11450.10-2



SOIL BORING RECORD
 Glenway Street
 Monroe Street to Railroad Tracks
 Madison, Wisconsin

DRAWING 11450.10-6

BORING: 5
 ELEVATION: 24.90

BORING COMPLETED: 2/15/96

ELEVATION FEET	DEPTH FEET	BLOW COUNTS	RECOV. SAMPLE	LITHO.	DESCRIPTION OF MATERIALS	LAB RESULTS, REMARKS
					FILL MATERIAL Bituminous pavement 0'0" to 0'6" Base course 0'6" to 1'0"	
	17				FAT CLAY (CH) Brown	frozen sample NM=28.0 LL=60 PL=22
	8				Frozen to 4'0"	qp=1.0, 1.5 moist
20	5				Sandy 6'0" to 6'3"	moist
	9				SILTY FINE SAND WITH GRAVEL (SM) Brown Dry at completion	
					End of boring	
	10					

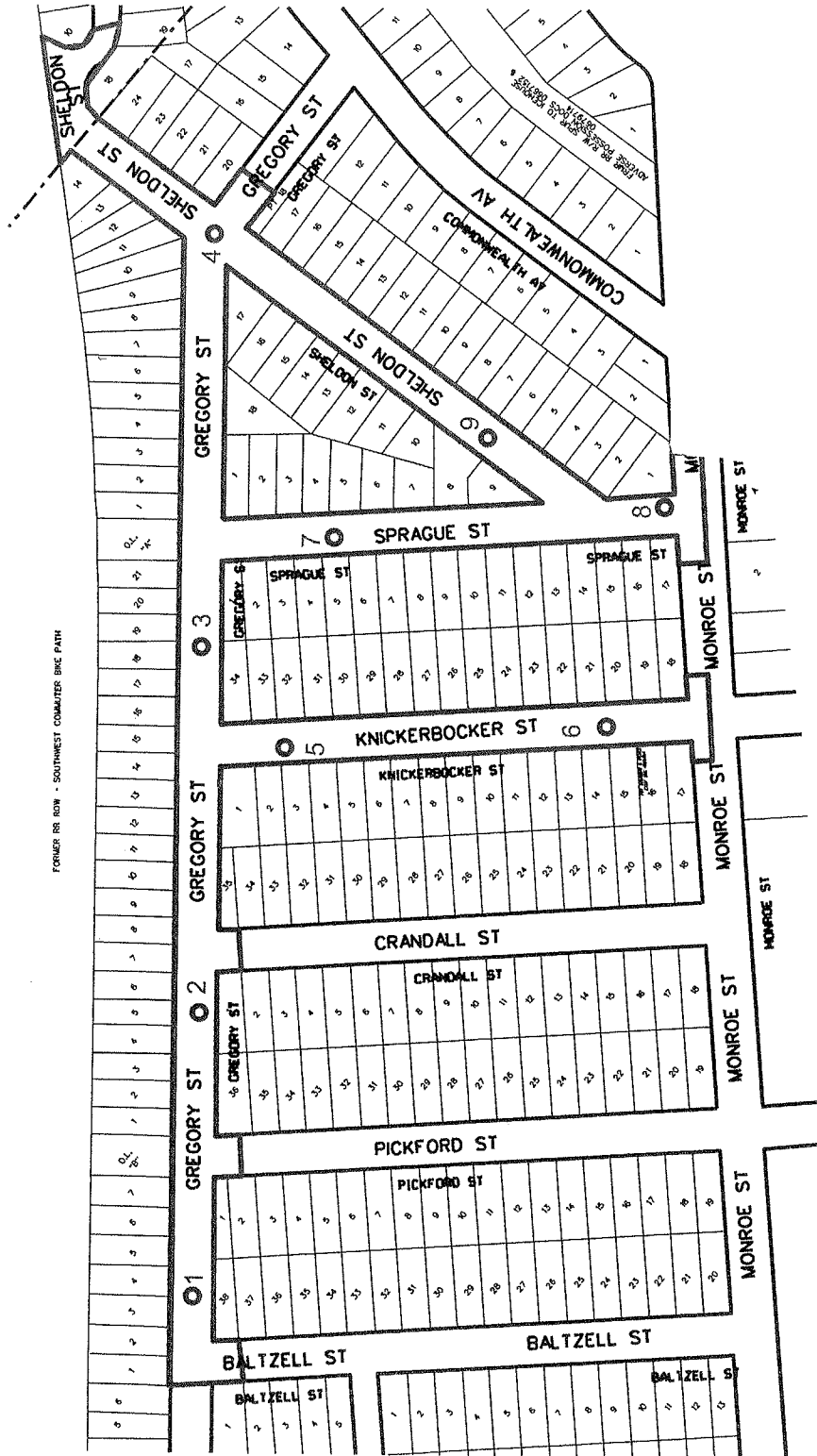
SOILS & ENGINEERING SERVICES, INC.
 MADISON, WISCONSIN

FOR NOTES AND LEGEND SEE DRAWING 11450.10-2



SOIL BORING RECORD
 Glenway Street
 Monroe Street to Railroad Tracks
 Madison, Wisconsin

DRAWING 11450.10-7



Legend

- Denotes Boring Location (approximate)

Notes

1. Soil borings performed by Badger State Drilling in October 2015

SOIL BORING LOCATION PLAN
 Gregory Street Area
 Madison, Wisconsin



DWN: -

APP'D: MNS

Date: 11/15

C15051-18



LOG OF TEST BORING

Project Gregory Street Area
Knickerbocker: 145'NW of Monroe, 8'NE of CL
 Location Madison, WI

Boring No. 6
 Surface Elevation (ft) _____
 Job No. C15051-18
 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)	q _u (qa) (tsf)	W	LL	PL	LI				
					0	2 in. Asphalt Pavement/6 in. Concrete Pavement									
1		12	M	6	6	Stiff to Very Stiff, Brown-Gray Lean CLAY (CL)					(1.75)				
2		14	M	10	10	Weathered to Competent, Brown Sandy LIMESTONE BEDROCK					(3.5)				
3		5	M	60/8"	7.5	End Boring at 7.5 ft Due to Auger Refusal on Competent Bedrock									
					10	Backfilled with Soil Cuttings and Asphalt Patch									
					15										
					20										

WATER LEVEL OBSERVATIONS

GENERAL NOTES

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

Start 10/13/15 End 10/13/15
 Driller BSD Chief JF Rig CME-55
 Logger DB Editor ESF
 Drill Method 2.25" HSA; Autohammer

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



LOG OF TEST BORING

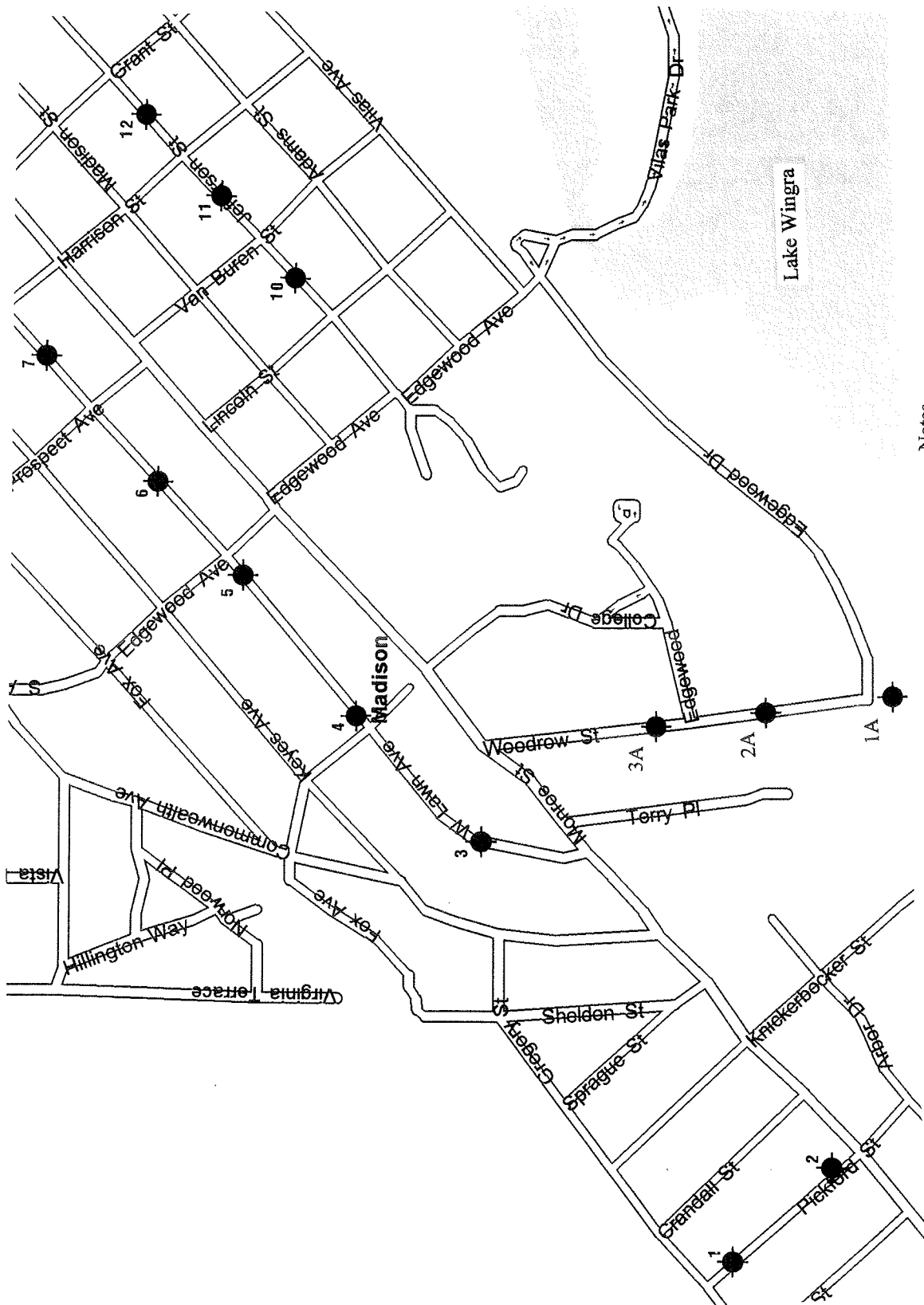
Project Gregory Street Area
 Sprague: 50'NW of Monroe, 8'NE of CL
 Location Madison, WI

Boring No. 8
 Surface Elevation (ft) _____
 Job No. C15051-18
 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.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					X	2 in. Asphalt Pavement/6 in. Concrete Pavement				
1	12	M	6	6	/	Stiff to Medium Stiff, Brown to Gray Lean CLAY (CL)				
				5	/					
2	14	M	8	8	/	(1.25)				
				5	/					
3	14	M	8	8	.	Loose, Brown Silty Fine SAND (SM)				
				10	.					
4	2	M	50/3"	10	█	Weathered to Competent, Brown LIMESTONE BEDROCK				
				10	█	End Boring at 9.5 ft Due to Auger Refusal on Competent Bedrock				
				15	█	Backfilled with Bentonite Chips and Asphalt Patch				
				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>10/13/15</u> End <u>10/13/15</u> Driller <u>BSD</u> Chief <u>JF</u> Rig <u>CME-55</u> Logger <u>DB</u> Editor <u>ESF</u> Drill Method <u>2.25" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



Notes

- 1. Soil borings performed by Badger State Drilling in December, 2010

Legend



Denotes Boring Location (approximate)



SOIL BORING LOCATION MAP

Westlawn Avenue Area
Madison, Wisconsin

CGC, Inc.

APP'D: MNS Date: 12/10 C10041-48

DWN: -



LOG OF TEST BORING

Project West Lawn Avenue Area
Pickford: 170'NW of Monroe, 8'NE of CL
 Location Madison, Wisconsin

Boring No. 2
 Surface Elevation (ft) 101.6*
 Job No. C10041-48
 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	LI					
					X	2" Asphalt Pavement/7" Concrete Pavement									
1	18	M	6	6	Hatched	Stiff, Dark Brown Lean CLAY (CL)									
				5											
2	18	M	9	9	Dotted						Loose to Medium Dense, Light Brown Silty Fine SAND, Trace Gravel (SM)				
3	18	W	10	10	Dotted										
4	18	W	14	14	Dotted										
5	18	W	10	10	Dotted										
				15		End Boring at 15 ft									
				20		Borehole backfilled with bentonite chips									
						*Elevation determined using an assumed datum of 100.0 ft referencing the top nut of a hydrant situated at the north corner of the intersection of Pickford and Monroe									

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling ∇ <u>6.5'</u> Upon Completion of Drilling <u>6.5</u> Time After Drilling _____ Depth to Water _____ ∇ Depth to Cave in _____	Start <u>12/9/10</u> End <u>12/9/10</u> Driller <u>Badger Chief</u> <u>BM</u> Rig <u>CME-55</u> Logger <u>MC</u> Editor <u>ESF</u> Drill Method <u>4 1/4" FA</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



LOG OF TEST BORING

Project West Lawn Avenue Area
West Lawn: 550'SW of Leonard, 9'SE of CL
 Location Madison, Wisconsin

Boring No. 3
 Surface Elevation (ft) 94.7*
 Job No. C10041-48
 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.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					X	3.5" Asphalt Pavement/7" Concrete Pavement				
1	18	M	6			Loose to Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel (SM)				
2	18	M	13							
				5		Medium Dense to Very Dense, White Fine to Medium SAND, Some Gravel, Trace Silt (SP)				
3	18	M	77			(Weathered Sandstone Bedrock)				
4	18	M	41							
				10						
5	18	M	25							
				15		End Boring at 15 ft				
						Borehole backfilled with bentonite chips				
						*Elevation determined using an assumed datum of 100.0 ft referencing the top nut of a hydrant situated along the NW side of West Lawn approximately 500'SW of Leonard				
				20						

WATER LEVEL OBSERVATIONS

GENERAL NOTES

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

Start 12/9/10 End 12/9/10
 Driller Badger Chief BM Rig CME-55
 Logger MC Editor ESF
 Drill Method 4 1/4" FA

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



LOG OF TEST BORING

Project Woodrow Street
 Location 420'N of Cul de Sac at Centerline
Madison, Wisconsin

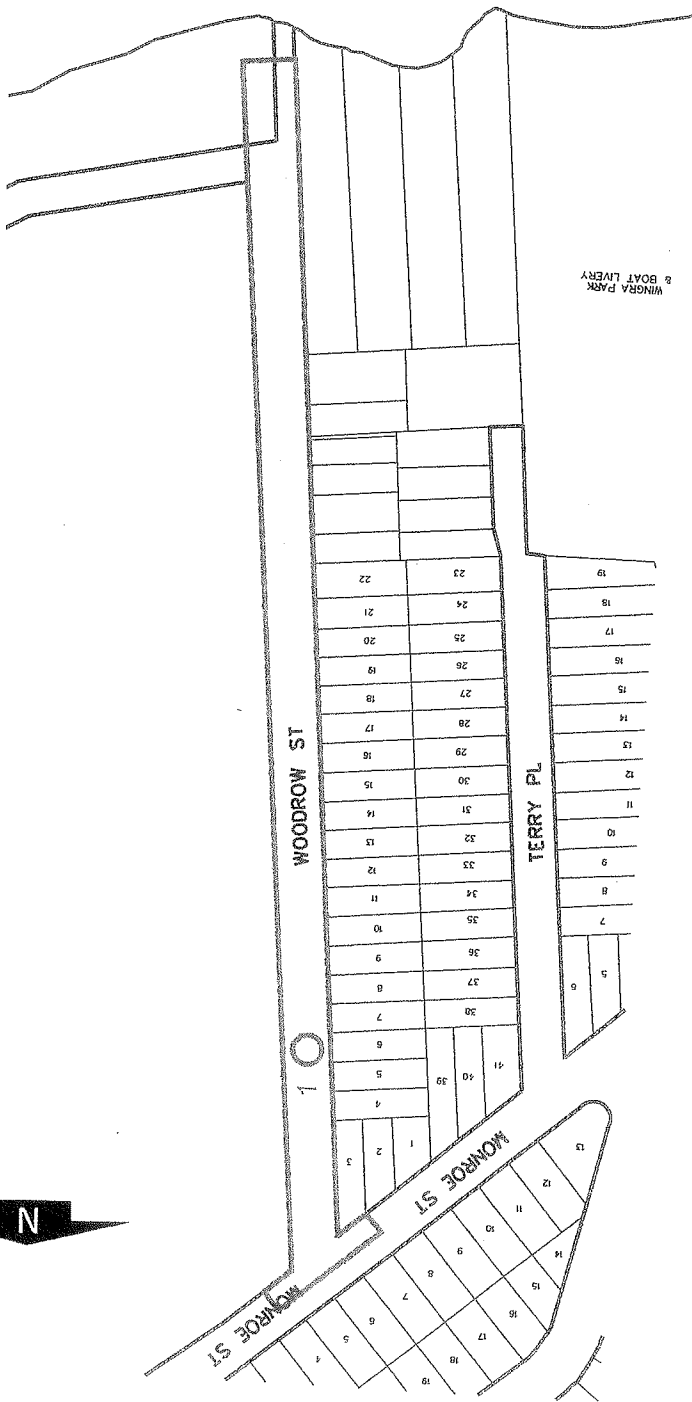
Boring No. 3A
 Surface Elevation (ft) _____
 Job No. C09028-30
 Sheet 1 of 1

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

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
1	10	M	10	10						
2	14	M	9	9		(2.25)				
3	10	M	17	17		(2.5)				
4	10	M	62/ 10"	10						
End Boring at 11 ft due to Auger Refusal on Presumed Dolomite Bedrock										
Borehole backfilled with bentonite chips										

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling ∇ <u>7.5'</u> Upon Completion of Drilling <u>NW</u> Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>11/2/09</u> End <u>11/2/09</u> Driller <u>Badger</u> Chief <u>AP</u> Rig <u>CME-55</u> Logger <u>RR</u> Editor <u>ESF</u> Drill Method <u>2 1/4" HSA</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	

LAKE WINGRA



Notes

1. Soil boring performed by Badger State Drilling in December 2015

Legend

○ Denotes Boring Location (approximate)

SOIL BORING LOCATION PLAN

Woodrow Street
Madison, Wisconsin



C15051-33

Date: 12/15

APP'D: MNS

DWN: -



LOG OF TEST BORING

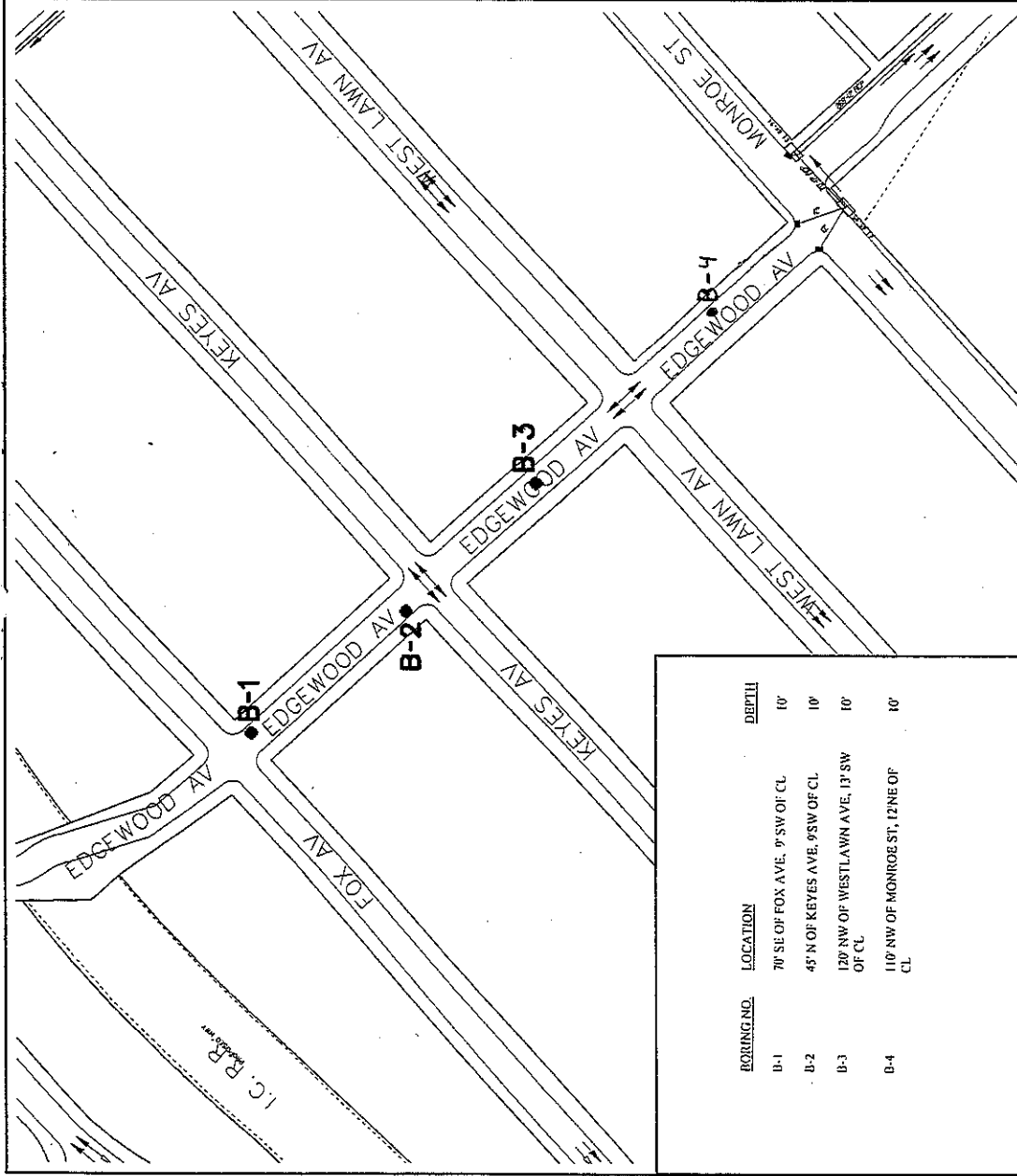
Project Woodrow Street
300'S of Monroe, 7'E of CL
 Location Madison, Wisconsin

Boring No. 1
 Surface Elevation (ft) _____
 Job No. C15051-33
 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	LI			
					5	X	6 in. Asphalt Pavement/5 in. Concrete Pavement/4 in. Base Course							
1	█	14	M	5	5	X	FILL: Loose, Brown Clayey Sand							
2	█	16	M	6	5	X	Loose to Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)							
3	█	14	M	15	5	X								
4	█	16	M	17	10	X								
5	█	16	M	37	15	X	Highly Weathered, Greenish-Gray Sandstone BEDROCK							
					15	X	End Boring at 15 ft Backfilled with Chips and Asphalt Patch							
					20	X								

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>12/9/15</u> End <u>12/9/15</u> Driller <u>BSD</u> Chief <u>MC</u> Rig <u>CME-55</u> Logger <u>JR</u> Editor <u>ESF</u> Drill Method <u>2 1/4 in. HSA;</u> Autohammer
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



Legend

● Denotes Boring Location

Notes

1. Base map provided by City of Madison.
2. Soil borings drilled by J&J Soil Testing in January 2006



Scale: unknown

DWN: -

APP'D: MNS

Date: 1/06

C05041-21

CGC, Inc.

SOIL BORING LOCATION MAP
 Edgwood Avenue
 Madison, Wisconsin



LOG OF TEST BORING

Project Edgewood Avenue
110'NW of Monroe; 12'NE of Centerline
 Location Madison, Wisconsin

Boring No. 4
 Surface Elevation (ft) 94.6*
 Job No. C05041-21
 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.	Rec (in.)	Moist	N	Depth (ft)		q _u (qa) (tsf)	W	LL	PL	LI
					X	4" Asphalt/6" Concrete/1" Base Course				
1	12	M	22			FILL: Mixed Brown Clay and Topsoil Hard, Brown Lean CLAY (CL)				
					/ / / /	(4.5+)				
2	18	M	17		o o o o	Medium Dense, Brown Fine SAND, Some Silt and Gravel (SM)				
				5	o o o o					
3	18	M	22		o o o o	Medium Dense to Dense, Whitish-Tan Fine SAND (Weathered Sandstone Bedrock)				
					o o o o					
4	18	M	23		o o o o					
				10	o o o o					
					End Boring at 10 ft					
					Borehole backfilled with bentonite chips					
					*Elevation referenced to <i>assumed</i> datum. See Page 1 of report.					
				15						
				20						

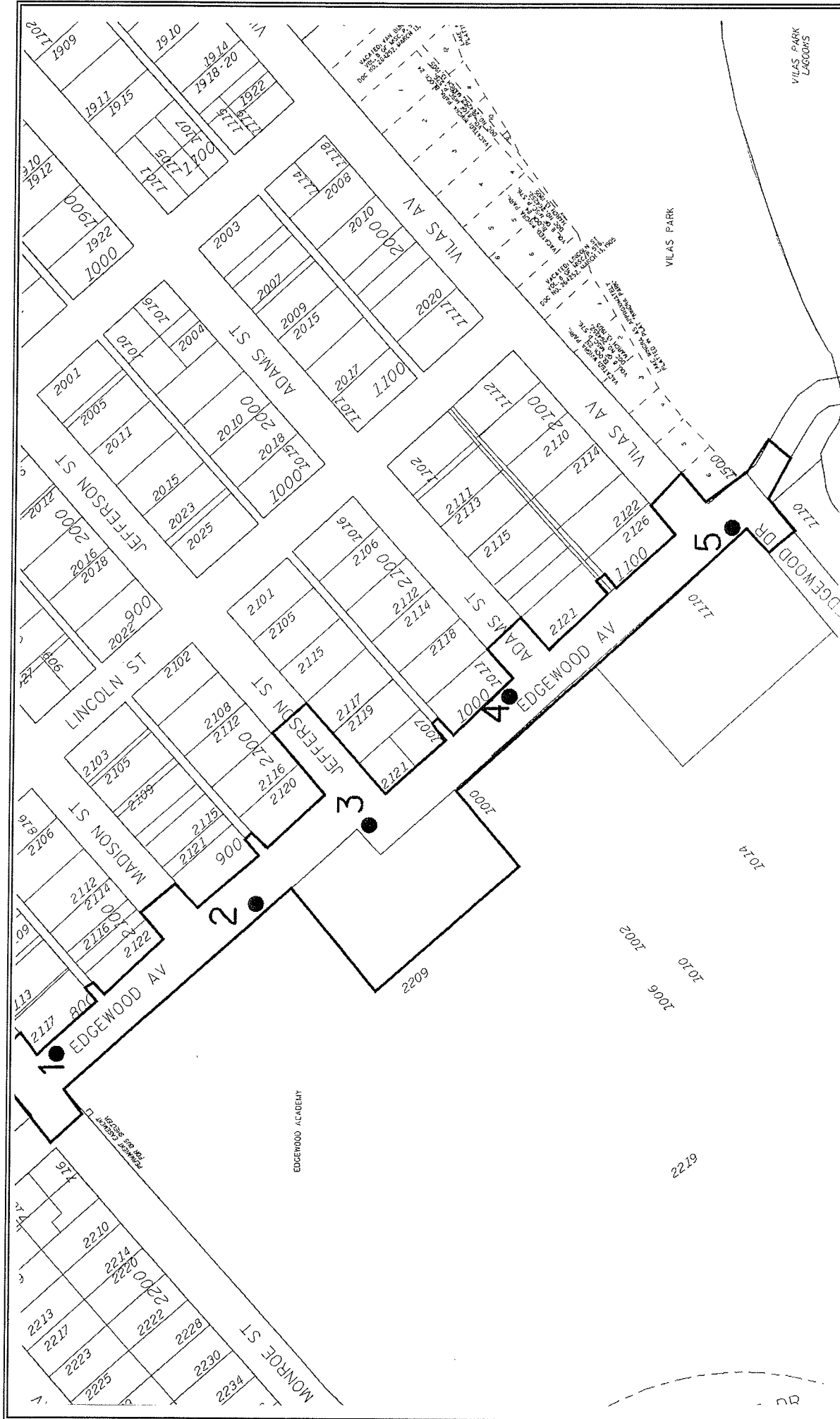
WATER LEVEL OBSERVATIONS

GENERAL NOTES

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

Start 1/13/06 End 1/13/06
 Driller J&J Chief JP Rig CME-45
 Logger JP Editor ESF
 Drill Method 2 1/4 in. HSA

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



Legend

● Denotes Boring Location (approximate)

Notes

1. Soil borings drilled by Badger State Drilling in January 2009



SOIL BORING LOCATION MAP
 Edgewood Avenue
 Madison, Wisconsin

CGC, Inc.

APPD: MNS

Date: 1/09

C08071-31

DWN: -



LOG OF TEST BORING

Project Edgewood Avenue
30' SE of Monroe, 14' NE of Centerline
 Location Madison, Wisconsin

Boring No. 1
 Surface Elevation (ft) _____
 Job No. C08071-31
 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	3 in. Asphalt Pavement/6 in. Concrete Pavement				
1		18	M	69*	1	FILL: Dark Brown Clay with Sand and Gravel, Trace Topsoil				
					2	Stiff, Brown Lean CLAY (CL)				
2		10	M	8	3	(1.5)				
					4	Medium Stiff and Sandy at 6.5 ft				
3		12	M	11	5	(0.75)				
					6	Dense to Very Dense, White Fine to Medium Sand, Some Gravel, Trace Silt (SP) (Weathered Sandstone Bedrock)				
4		15	M	31	7					
					8					
					9					
					10					
					11					
					12					
					13					
					14					
5		14	M	50/5"	15					
					16					
					17					
					18					
					19					
					20					

End Boring at 15 ft

Borehole backfilled with bentonite chips

* Sample 1 Frozen

WATER LEVEL OBSERVATIONS

GENERAL NOTES

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

Start 1/26/09 End 1/26/09
 Driller Badger Chief RB Rig B-59
 Logger KD Editor ESF
 Drill Method 2 1/4 in. HSA

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



LOG OF TEST BORING

Project Edgewood Avenue
125' NW of Jefferson, 8' NE of Centerline
 Location Madison, Wisconsin

Boring No. 2
 Surface Elevation (ft) _____
 Job No. C08071-31
 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	3 in. Asphalt Pavement/5 in. Concrete Pavement				
1		4	M	50/4"*	5	FILL: Brown Clay with Sand and Gravel				
2		10	M	14	5	Stiff to Very Stiff, Brown Lean CLAY (CL)				
3		16	M	66	5	Very Dense to Dense, Brown Fine to Medium SAND, Some Silt and Gravel (SM)				
4		16	M	34	10	Medium Dense, White Fine to Medium SAND, Some Gravel, Trace Silt (SP) (Weathered Sandstone Bedrock)				
5		14	M	29	15	End Boring at 15 ft				
Borehole backfilled with bentonite chips										
* Sample 1 Frozen										
					20					

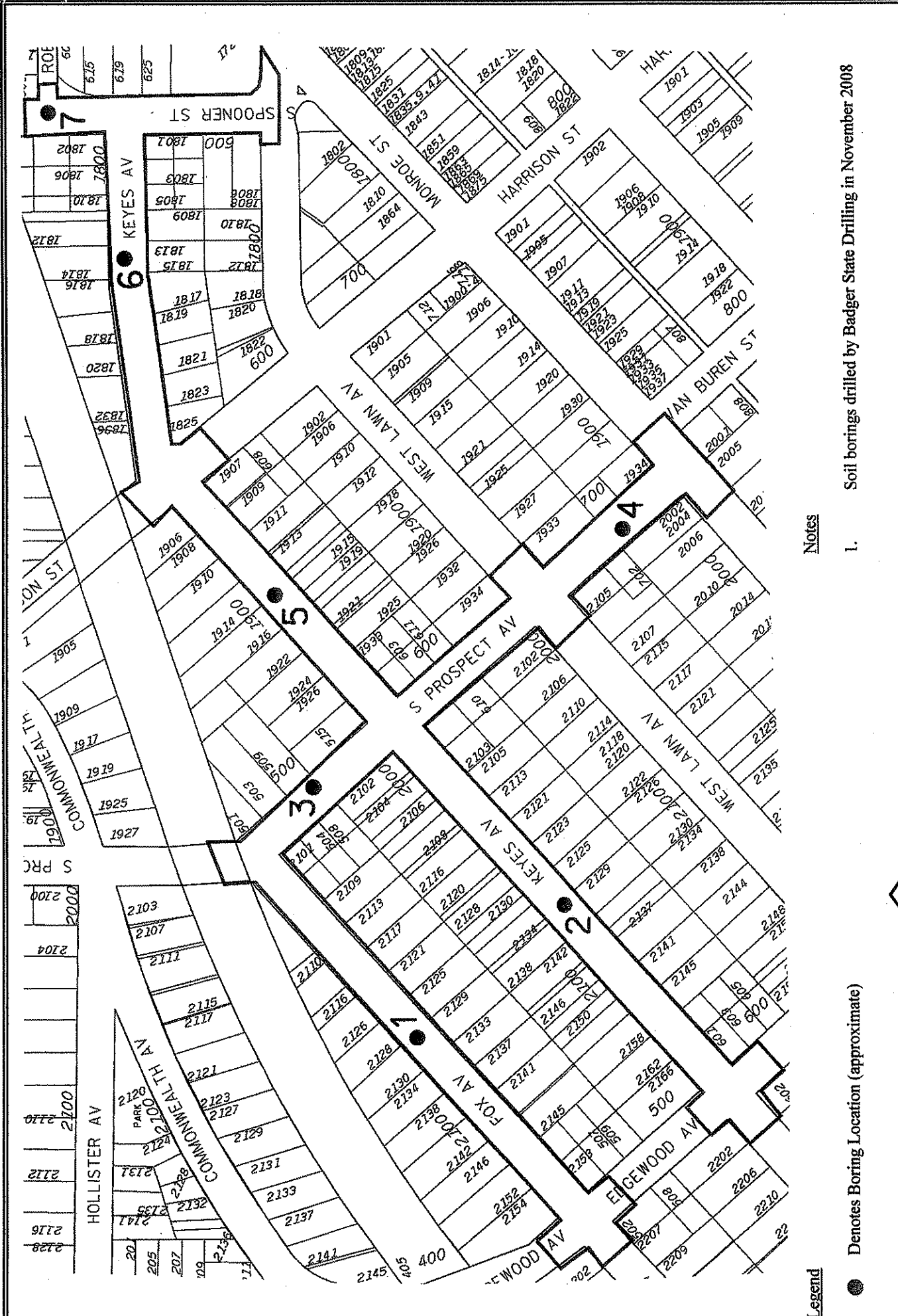
WATER LEVEL OBSERVATIONS

GENERAL NOTES

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

Start 1/26/09 End 1/26/09
 Driller Badger Chief RB Rig B-59
 Logger KD Editor ESF
 Drill Method 2 1/4 in. HSA

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



Legend

● Denotes Boring Location (approximate)

Notes

I. Soil borings drilled by Badger State Drilling in November 2008



SOIL BORING LOCATION MAP
 Fox, Keyes and Prospect Avenues
 Madison, Wisconsin

CGC, Inc.

DWN: -	APPD: MNS	Date: 11/08	C08071-16
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LOG OF TEST BORING

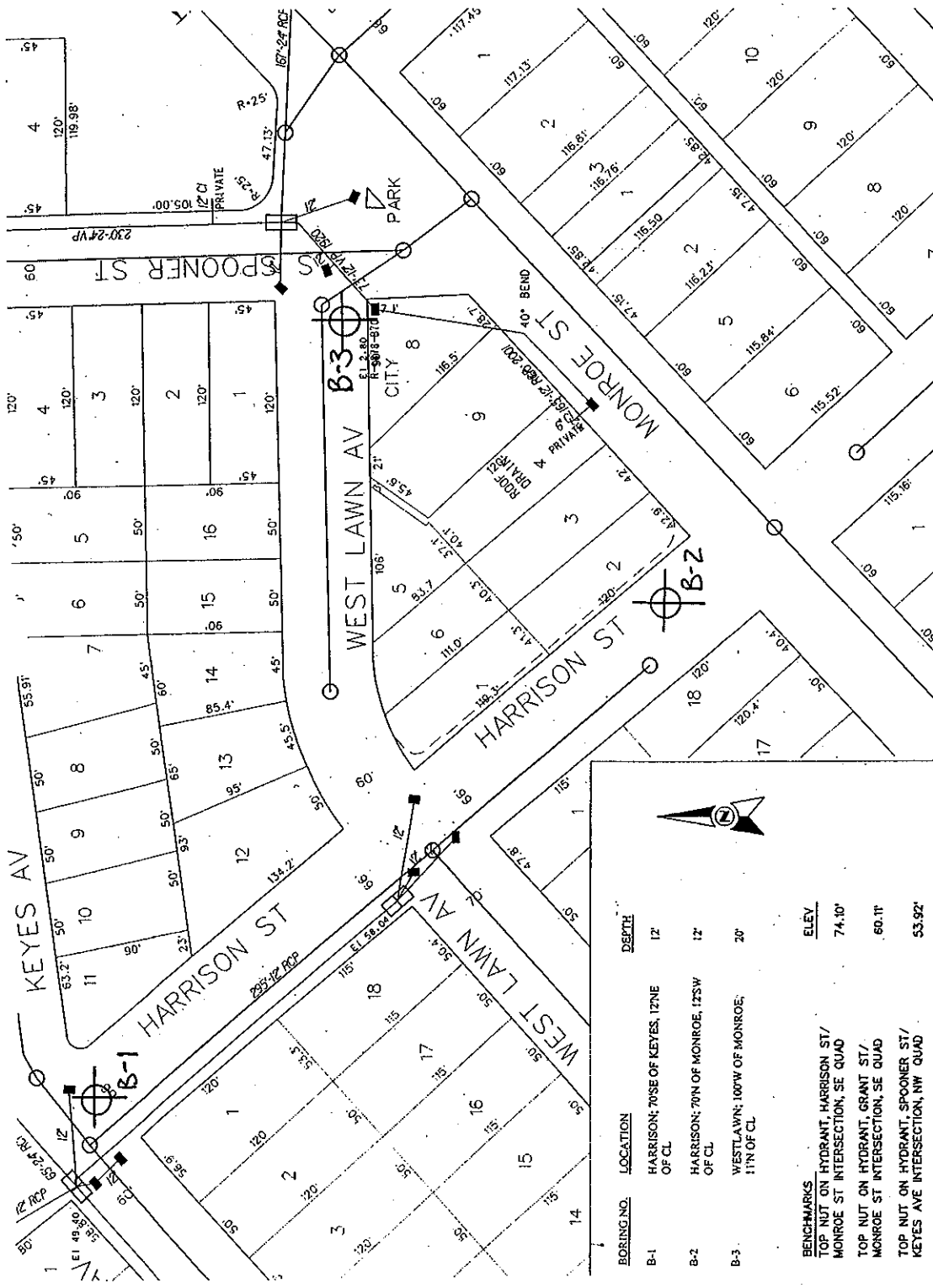
Project Fox, Keyes & Prospect Avenues
 Prospect: 100'NW of Monroe, 9' SW of Centerline
 Location Madison, WI

Boring No. 4
 Surface Elev. (ft) _____
 Job No. C08071-16
 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.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	PID
					X	2 in. Asphalt Pavement/5.5 in. Concrete Pavement with Wire Mesh				
1X 1	16	M	6		/	Stiff, Brown Lean CLAY (CL)				
					.	Loose, Dark Brown Fine to Coarse SAND, Some Silt, Little Gravel (SM)				
2	14	M	22		-	Medium Dense, Light Brown Fine SAND, Little Silt (SP-SM)				
				5						
3	12	M	11		-	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel (SM)				
4	18	M	29		-	Medium Dense, to Very Dense, White and Brown Fine SAND, Some Gravel, Trace Silt (SP)				
				10		(Weathered to Competent Sandstone Bedrock)				
5	16	M	76/ 10"							
				15		End Boring at 14.8 ft Due to Spoon Refusal				
						Borehole backfilled with bentonite chips				
				20						

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> <u>NW</u> Upon Completion of Drilling <input type="checkbox"/> <u>NW</u> Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>11/19/08</u> End <u>11/19/08</u> Driller <u>Badger Chief RR</u> Rig <u>D-120</u> Logger <u>GFP</u> Editor <u>ESF</u> Drill Method <u>2 1/4 in. HSA</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



BORING NO.	LOCATION	DEPTH	ELEV
B-1	HARRISON; 70SE OF KEYES, 12NE OF CL	12'	74.10'
B-2	HARRISON; 70N OF MONROE, 12SW OF CL	12'	60.11'
B-3	WESTLAWN; 100W OF MONROE; 11'N OF CL	20'	53.92'

BENCHMARKS
 TOP NUT ON HYDRANT, HARRISON ST/ MONROE ST INTERSECTION, SE QUAD
 TOP NUT ON HYDRANT, GRANT ST/ MONROE ST INTERSECTION, SE QUAD
 TOP NUT ON HYDRANT, SPOONER ST/ KEYES AVE INTERSECTION, NW QUAD

Legend



Denotes Boring Location

Notes

1. Base map provided by City of Madison.
2. Soil boring drilled by J&J Soil Testing in December 2005

Scale: unknown

DWN: - APP'D: MNS Date: 12/05 C05041-18

CGC, Inc.

SOIL BORING LOCATION MAP
 Harrison Street and Westlawn Avenue
 Madison, Wisconsin



LOG OF TEST BORING

Project Harrison & Westlawn
Harrison; 70'N of Monroe, 12'SW of Centerline
 Location Madison, Wisconsin

Boring No. 2
 Surface Elevation (ft) 61.8
 Job No. C05041-18
 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
1		12	M	9	6" Concrete FILL: Brown Lean Clay, Few Brown Fine Sand Seams to 3 ft+/- Grading to Brown Silty Fine Sand	(0.7-4.5+)				
2A/B		15	M	23	Medium Dense, Gray Sandy SILT, Trace Gravel (Possible Fill) (ML)					
3		18	M	15	Medium Dense, Brown Fine SAND, Some Silt and Gravel (SM)					
4		1	M	19						
5		18	M	53	Very Dense, Tan Fine SAND, Trace Silt (Possible Weathered Sandstone) (SP)					
					End Boring at 12.5 ft					
					Borehole backfilled with bentonite chips					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> <u>NW</u> Upon Completion of Drilling <u>NW</u> Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>12/30/05</u> End <u>12/30/05</u> Driller <u>J&J</u> Chief <u>JP</u> Rig <u>CME-45</u> Logger <u>JP</u> Editor <u>ESF</u> Drill Method <u>2 1/4" HSA</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



LOG OF TEST BORING

Project Harrison & Westlawn
Westlawn: 100'W of Monroe, 11'N of Centerline
 Location Madison, Wisconsin

Boring No. 3
 Surface Elevation (ft) 59.5
 Job No. C05041-18
 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	LI
1A/B	18	M	13	5	5" Asphalt/2.5" Deteriorated Asphalt/8.5" Base Course FILL: Brown Lean Clay to 3 ft+/- Grading to Brown Silty Sand, Little Gravel and Clay	(2.5)				
2A/B	18	M	9	5	Medium Dense, Light Brown Fine SAND, Little to Some Silt and Gravel (SP-SM/SM)					
3	1	M	25	10	Few Brown Fine Sand Seams and Layers, Few Brown Lean Clay Seams and Layers near 10 ft					
4	18	M	16	15	End Boring at 20 ft Borehole backfilled with bentonite chips					
5A/B	18	M	30	20						
6	18	M	26	25						

WATER LEVEL OBSERVATIONS

GENERAL NOTES

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

Start 12/30/05 End 12/30/05
 Driller J&J Chief JP Rig CME-45
 Logger JP Editor ESF
 Drill Method 2 1/4" HSA

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