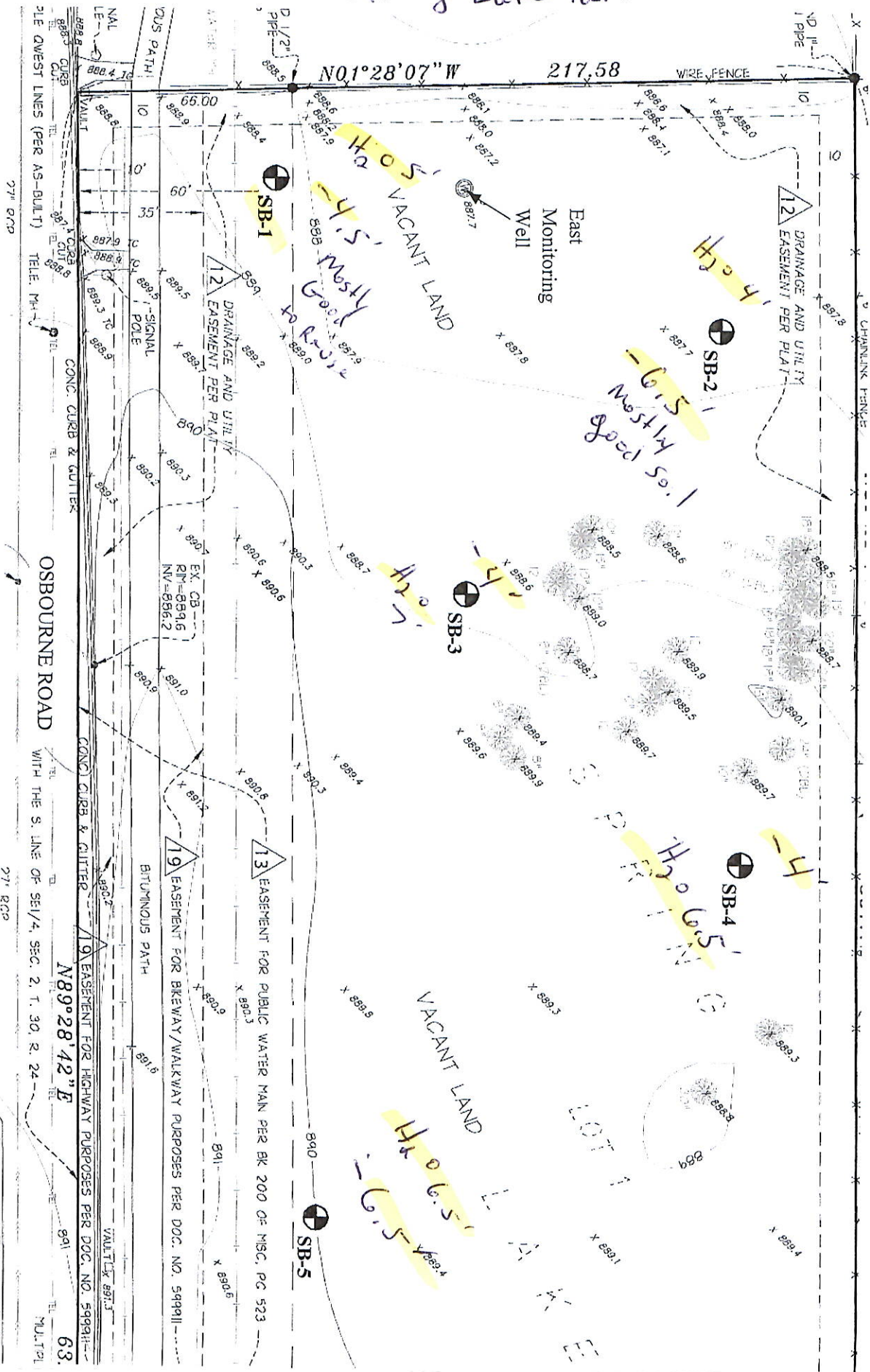


# Spring Lake Park



Boring Location Diagram

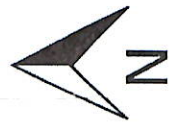
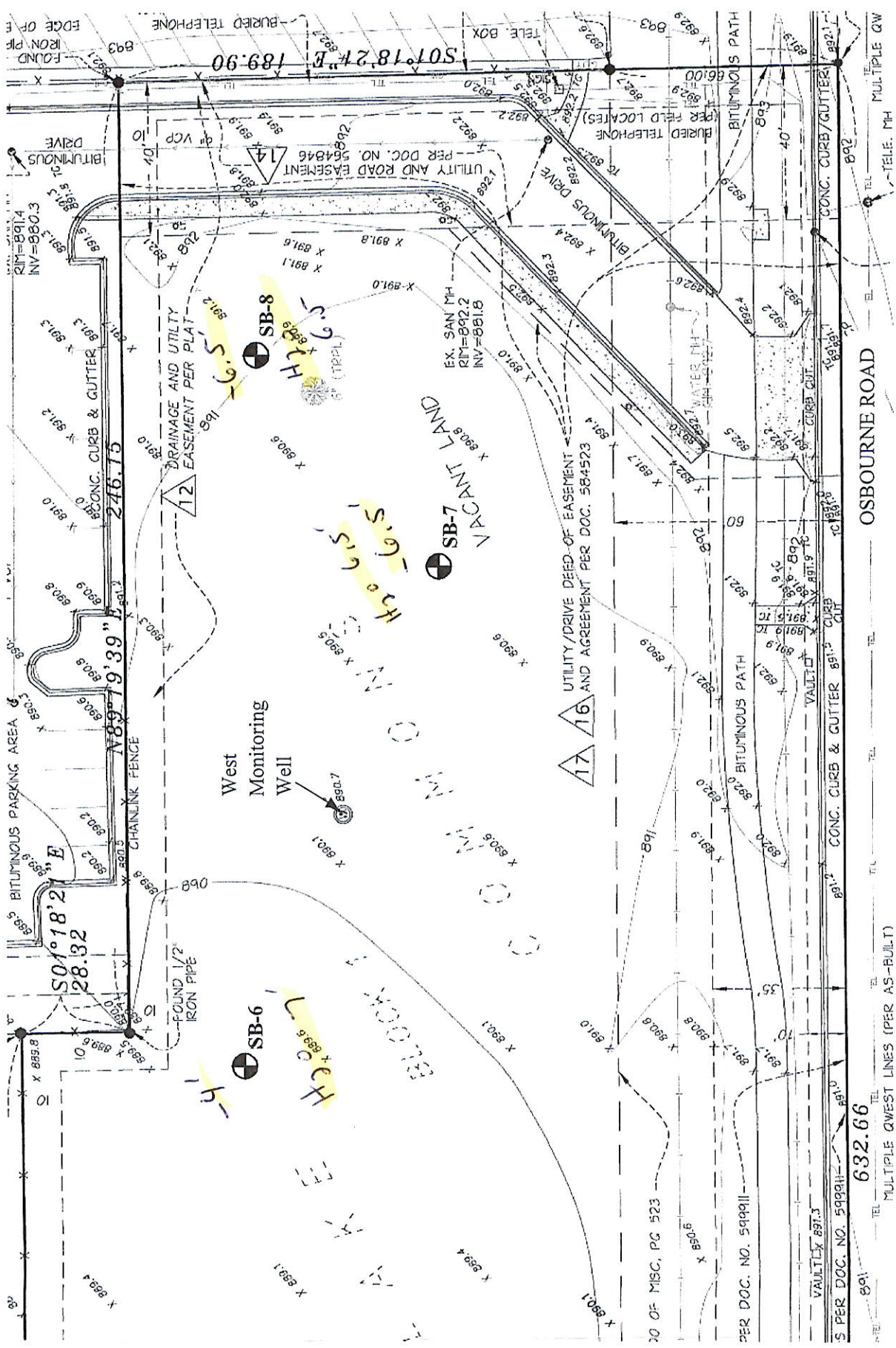
Spring Lake Park Development

Spring Lake Park, Minnesota

NTI Project #: 14.60612.100

NOTE: Boring location diagram provided by Cornerstone Land Surveying, Inc.





**NTI**  
NORTHERN  
TECHNOLOGIES, INC.

Boring Location Diagram  
Spring Lake Park Development  
Spring Lake Park, Minnesota  
NTI Project #: 14.60612.100

NOTE: Boring location diagram provided by Cornerstone Land Surveying, Inc.



# BORING NUMBER SB-1

**CLIENT** MFRA **PROJECT NAME** Spring Lake Park Development  
**PROJECT NUMBER** 14.60612.100 **PROJECT LOCATION** Spring Lake, MN  
**DATE STARTED** 6/6/14 **COMPLETED** 6/6/14 **GROUND ELEVATION** 888.4 ft **HOLE SIZE** 6 inches  
**DRILLING CONTRACTOR** NTI **GROUND WATER LEVELS:**  
**DRILLING METHOD** 3 1/4 in. H.S.A.  **AT TIME OF DRILLING** 6.50 ft / Elev 881.90 ft  
**LOGGED BY** RLL **CHECKED BY** RMB **AT END OF DRILLING** —  
**NOTES** Elev BM = 887.7 (Ground surface of W monitoring well)  **AFTER DRILLING** 5.00 ft / Elev 883.40 ft Monitoring well 40 ft N

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		8" TOPSOIL										
0 - 5		FILL: POORLY GRADED SAND WITH SILT - (SP-SM), fine to medium grained, trace gravel, brown and dark brown with iron oxide stains, moist, very loose to loose (Fill)  <i>Good Material to Reuse</i>	SS 1	22	1-1-2 (3)							
			HS									
			SS 2	78	2-3-4 (7)			7				
			HS									
5		POORLY GRADED SAND - (SP), fine to coarse grained, light brown, moist to waterbearing at 6.5 feet, loose to dense (Alluvial)  NOTE: Color change to gray at 14 feet.	SS 3	100	3-4-4 (8)			11				
			HS									
			SS 4	89	3-4-3 (7)							
			HS									
			SS 5	78	3-4-4 (8)							
			HS									
			SS 6	100	5-7-8 (15)							
			HS									
			SS 7	100	5-7-9 (16)							
			HS									
			SS 8	100	5-6-7 (13)							

Borehole backfilled with soil cuttings.  
Boring terminated at 21.0 feet.



CLIENT MFRA  
 PROJECT NUMBER 14.60612.100  
 DATE STARTED 6/6/14 COMPLETED 6/6/14  
 DRILLING CONTRACTOR NTI  
 DRILLING METHOD 3 1/4 in. H.S.A.  
 LOGGED BY RLI CHECKED BY RMB  
 NOTES Elev BM = 887.7 (Ground surface of W monitoring well)

PROJECT NAME Spring Lake Park Development  
 PROJECT LOCATION Spring Lake, MN  
 GROUND ELEVATION 887.6 ft HOLE SIZE 6 inches  
 GROUND WATER LEVELS:  
 ∇ AT TIME OF DRILLING 4.00 ft / Elev 883.60 ft  
 AT END OF DRILLING --  
 AFTER DRILLING --

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)	
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
0		FILL: POORLY GRADED SAND - (SP), fine to medium grained, trace gravel, light brown, moist, very loose to loose (Fill)	SS 1	67	1-1-2 (3)								
			HS										
				SS 2	89	3-4-3 (7)							
				HS									
5			FILL: POORLY GRADED SAND WITH SILT - (SP-SM), fine to medium grained, trace gravel, dark brown with iron oxide stains, waterbearing, loose (Fill)	SS 3	89	4-3-3 (6)							
				HS									
			POORLY GRADED SAND - (SP), fine to coarse grained, brown with iron oxide stains, waterbearing, loose to medium dense (Alluvial)	SS 4	89	6-4-5 (9)							
				HS									
10			SS 5	78	4-3-3 (6)								
			HS										
			SS 6	78	3-3-4 (7)								
			HS										
15			SS 7	78	3-4-3 (7)								
			HS										
		NOTE: Color change to gray at 18 feet.	HS										
20			SS 8	78	4-3-4 (7)								

Borehole backfilled with soil cuttings.  
 Boring terminated at 21.0 feet.



# BORING NUMBER SB-3

**CLIENT** MFRA  
**PROJECT NUMBER** 14.60612.100  
**DATE STARTED** 6/6/14 **COMPLETED** 6/6/14  
**DRILLING CONTRACTOR** NTI  
**DRILLING METHOD** 3 1/4 in. H.S.A.  
**LOGGED BY** RLL **CHECKED BY** RMB  
**NOTES** Elev BM = 887.7 (Ground surface of W monitoring well)

**PROJECT NAME** Spring Lake Park Development  
**PROJECT LOCATION** Spring Lake, MN  
**GROUND ELEVATION** 889.2 ft **HOLE SIZE** 6 inches  
**GROUND WATER LEVELS:**  
 ∇ **AT TIME OF DRILLING** 6.50 ft / Elev 882.70 ft  
**AT END OF DRILLING** ---  
**AFTER DRILLING** ---

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		8" TOPSOIL										
0 - 4		FILL: POORLY GRADED SAND - (SP), fine to medium grained, light brown, moist, very loose (Fill)	SS 1	22	1-1-1 (2)							
4 - 5			HS HS									
5 - 21		POORLY GRADED SAND - (SP), fine to coarse grained, light brown, moist to waterbearing at 6.5 feet, loose to medium dense (Alluvial)	SS 2	44	3-2-2 (4)							
5 - 6			HS HS									
6 - 7			SS 3	89	3-4-4 (8)							
7 - 8			HS HS									
8 - 9			SS 4	100	5-5-6 (11)							
9 - 10			HS HS									
10 - 11			SS 5	67	4-4-6 (10)							
11 - 12			HS HS									
12 - 13			SS 6	72	3-4-3 (7)							
13 - 14			HS HS									
14 - 15			SS 7	89	3-3-4 (7)							
15 - 16			HS HS									
16 - 17												
17 - 18												
18 - 19												
19 - 20			SS 8	78	4-3-4 (7)							
20 - 21												

∇

NOTE: Color change to gray at 11.5 feet.

Borehole backfilled with soil cuttings.  
Boring terminated at 21.0 feet.



# BORING NUMBER SB-4

**CLIENT** MFRA **PROJECT NAME** Spring Lake Park Development  
**PROJECT NUMBER** 14.60612.100 **PROJECT LOCATION** Spring Lake, MN  
**DATE STARTED** 6/6/14 **COMPLETED** 6/6/14 **GROUND ELEVATION** 889.1 ft **HOLE SIZE** 6 inches  
**DRILLING CONTRACTOR** NTI **GROUND WATER LEVELS:**  
**DRILLING METHOD** 3 1/4 in. H.S.A.  **AT TIME OF DRILLING** 6.50 ft / Elev 882.60 ft  
**LOGGED BY** RLL **CHECKED BY** RMB **AT END OF DRILLING** ---  
**NOTES** Elev BM = 887.7 (Ground surface of W monitoring well) **AFTER DRILLING** ---

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		11" TOPSOIL	AU 1									
		FILL: POORLY GRADED SAND WITH SILT - (SP-SM), fine to medium grained, trace gravel, brown and dark brown with iron oxide stains, moist, medium dense (Fill)	HS									
			SS 2	44	3-4-5 (9)			7				
5		POORLY GRADED SAND - (SP), fine to coarse grained, light brown with iron oxide stains, moist to waterbearing at 6.5 feet, loose to medium dense (Alluvial)	HS									
			SS 3	67	4-4-6 (10)							
			HS									
			SS 4	78	3-4-4 (8)							
			HS									
10			SS 5	67	3-4-3 (7)							2
			HS									
			SS 6	56	3-3-4 (7)							
			HS									
15		NOTE: Color change to brown at 14 feet.	SS 7	67	3-4-4 (8)							
			HS									
20			SS 8	78	3-3-4 (7)							

Borehole backfilled with soil cuttings.  
Boring terminated at 21.0 feet.



# BORING NUMBER SB-5

PAGE 1 OF 1

**CLIENT** MFRA **PROJECT NAME** Spring Lake Park Development  
**PROJECT NUMBER** 14.60612.100 **PROJECT LOCATION** Spring Lake, MN  
**DATE STARTED** 6/6/14 **COMPLETED** 6/6/14 **GROUND ELEVATION** 890 ft **HOLE SIZE** 6 inches  
**DRILLING CONTRACTOR** NTI **GROUND WATER LEVELS:**  
**DRILLING METHOD** 3 1/4 in. H.S.A. ▽ **AT TIME OF DRILLING** 6.50 ft / Elev 883.50 ft  
**LOGGED BY** RLL **CHECKED BY** RMB **AT END OF DRILLING** --  
**NOTES** Elev BM = 887.7 (Ground surface of W monitoring well) **AFTER DRILLING** --

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		8" TOPSOIL	AU 1									
0 - 5		FILL: POORLY GRADED SAND WITH SILT - (SP-SM), fine to medium grained, trace gravel, brown with iron oxide stains, moist, loose to medium dense (Fill)	HS HS									
5			SS 2	78	3-3-4 (7)							
5 - 10			HS HS									
10			SS 3	67	4-5-6 (11)							
10 - 18			HS HS									
18	▽	POORLY GRADED SAND - (SP), fine to coarse grained, light brown, waterbearing, loose to medium dense (Alluvial)	HS HS									
18 - 20			SS 4	44	3-4-5 (9)							
20			HS HS									
20 - 21			SS 5	67	3-4-4 (8)							
21			HS HS									
21 - 22			SS 6	78	3-3-4 (7)							
22			HS HS									
22 - 23			SS 7	89	2-3-3 (6)							
23			HS HS									
23 - 24			SS 8	67	3-3-4 (7)							

NOTE: Color change to gray at 18 feet.

Borehole backfilled with soil cuttings.  
Boring terminated at 21.0 feet.



# BORING NUMBER SB-6

**CLIENT** MFRA **PROJECT NAME** Spring Lake Park Development  
**PROJECT NUMBER** 14.60612.100 **PROJECT LOCATION** Spring Lake, MN  
**DATE STARTED** 6/6/14 **COMPLETED** 6/6/14 **GROUND ELEVATION** 889.2 ft **HOLE SIZE** 6 inches  
**DRILLING CONTRACTOR** NTI **GROUND WATER LEVELS:**  
**DRILLING METHOD** 3 1/4 in. H.S.A.  **AT TIME OF DRILLING** 7.00 ft / Elev 882.20 ft  
**LOGGED BY** RLL **CHECKED BY** RMB **AT END OF DRILLING** —  
**NOTES** Elev BM = 887.7 (Ground surface of W monitoring well)  **AFTER DRILLING** 7.50 ft / Elev 881.70 ft Monitoring well 75 ft E

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		5" TOPSOIL	AU 1									
		FILL: POORLY GRADED SAND WITH SILT - (SP-SM), fine to medium grained, brown and dark brown, moist, loose (Fill)	HS HS									
			SS 2	72	4-4-4 (8)			5				
5		POORLY GRADED SAND - (SP), fine to coarse grained, brown with iron oxide stains, moist to waterbearing at 7 feet, loose (Alluvial)	HS HS					19				4
			SS 3	78	2-3-3 (6)							
			SS 4	67	3-3-4 (7)							
			SS 5	78	3-3-3 (6)							
			SS 6	100	3-4-3 (7)							
			SS 7	89	4-3-4 (7)							
			SS 8	78	3-3-3 (6)							

Borehole backfilled with soil cuttings.  
Boring terminated at 21.0 feet.





CLIENT MFRA PROJECT NAME Spring Lake Park Development  
 PROJECT NUMBER 14.60612.100 PROJECT LOCATION Spring Lake, MN  
 DATE STARTED 6/6/14 COMPLETED 6/6/14 GROUND ELEVATION 890.6 ft HOLE SIZE 6 inches  
 DRILLING CONTRACTOR NTI GROUND WATER LEVELS:  
 DRILLING METHOD 3 1/4 in. H.S.A.  AT TIME OF DRILLING 6.50 ft / Elev 884.10 ft  
 LOGGED BY RLL CHECKED BY RMB AT END OF DRILLING ---  
 NOTES Elev BM = 887.7 (Ground surface of W monitoring well) AFTER DRILLING ---

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		18" TOPSOIL	AU 1									
		FILL: SILTY SAND - (SM), fine to medium grained, trace organics, trace fine roots, trace gravel, black and dark brown, moist, loose (Fill)	HS SS 2	100	3-3-3 (6)							
5		Organic Content = 1.5% (Sample 3)	HS SS 3	89	2-3-3 (6)			10				
		POORLY GRADED SAND - (SP), fine to coarse grained, light brown with iron oxide stains, waterbearing, loose (Alluvial)	HS SS 4	78	3-4-4 (8)							
10			HS SS 5	78	3-4-3 (7)							
			HS SS 6	67	3-3-3 (6)							
15			HS SS 7	56	3-4-3 (7)							2
		NOTE: Color change to gray at 18 feet.	HS HS									
20			HS SS 8	67	3-2-3 (5)							

Borehole backfilled with soil cuttings.  
 Boring terminated at 21.0 feet.



CLIENT MFRA PROJECT NAME Spring Lake Park Development  
 PROJECT NUMBER 14.60612.100 PROJECT LOCATION Spring Lake, MN  
 DATE STARTED 6/6/14 COMPLETED 6/6/14 GROUND ELEVATION 891.9 ft HOLE SIZE 6 inches  
 DRILLING CONTRACTOR NTI GROUND WATER LEVELS:  
 DRILLING METHOD 3 1/4 in. H.S.A.  $\nabla$  AT TIME OF DRILLING 6.50 ft / Elev 885.40 ft  
 LOGGED BY RLL CHECKED BY RMB AT END OF DRILLING --  
 NOTES Elev BM = 887.7 (Ground surface of W monitoring well) AFTER DRILLING --

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		2" TOPSOIL										
		FILL: POORLY GRADED SAND - (SP), fine to medium grained, trace gravel, brown with iron oxide stains, moist, very loose to medium dense (Fill)	SS 1	17	1-3-2 (5)							
			HS HS									
			SS 2	56	3-4-5 (9)			4				
			HS HS									
5			SS 3	67	3-3-4 (7)			14				
			HS HS									
		POORLY GRADED SAND - (SP), fine to coarse grained, gray, waterbearing, medium dense (Alluvial)	SS 4	78	4-6-7 (13)							
			HS HS									
10			SS 5	78	4-6-7 (13)							
			HS HS									
			SS 6	67	4-5-5 (10)							
			HS HS									
15			SS 7	67	4-5-4 (9)							
			HS HS									
		NOTE: Color change to brown at 18 feet.										
20			SS 8	67	4-5-5 (10)							

Borehole backfilled with soil cuttings.  
 Boring terminated at 21.0 feet.



Northern Technologies, Inc.  
1408 Northland Drive, Suite 107  
Mendota Heights, MN 55120  
651-389-4191

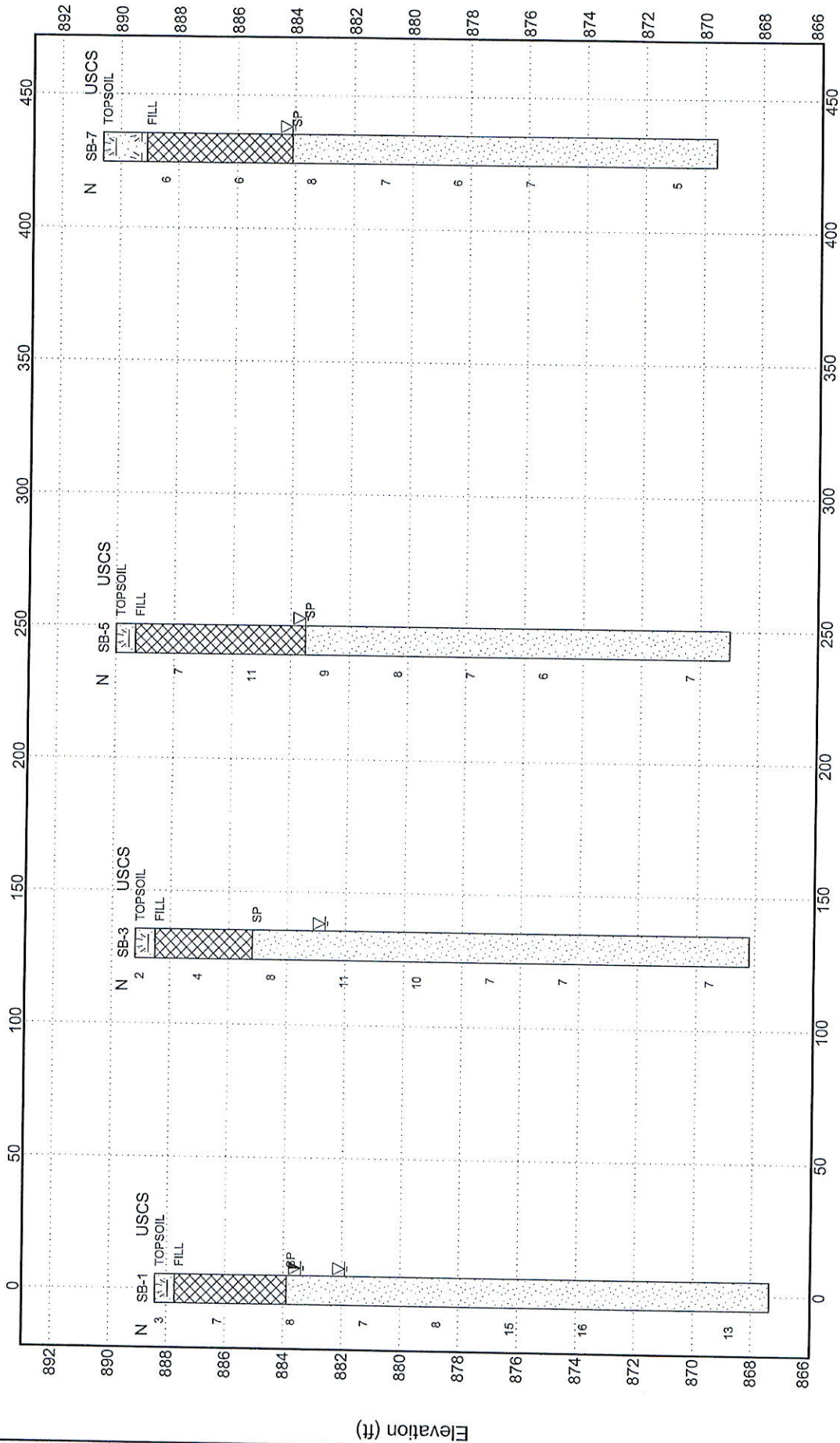
# SUBSURFACE DIAGRAM

CLIENT MFRA

PROJECT NAME Spring Lake Park Development

PROJECT LOCATION Spring Lake, MN

PROJECT NUMBER 14.60612.100



Distance Along Baseline (ft)

Elevation (ft)



Northern Technologies, Inc.  
 1408 Northland Drive, Suite 107  
 Mendota Heights, MN 55120  
 651-389-4191

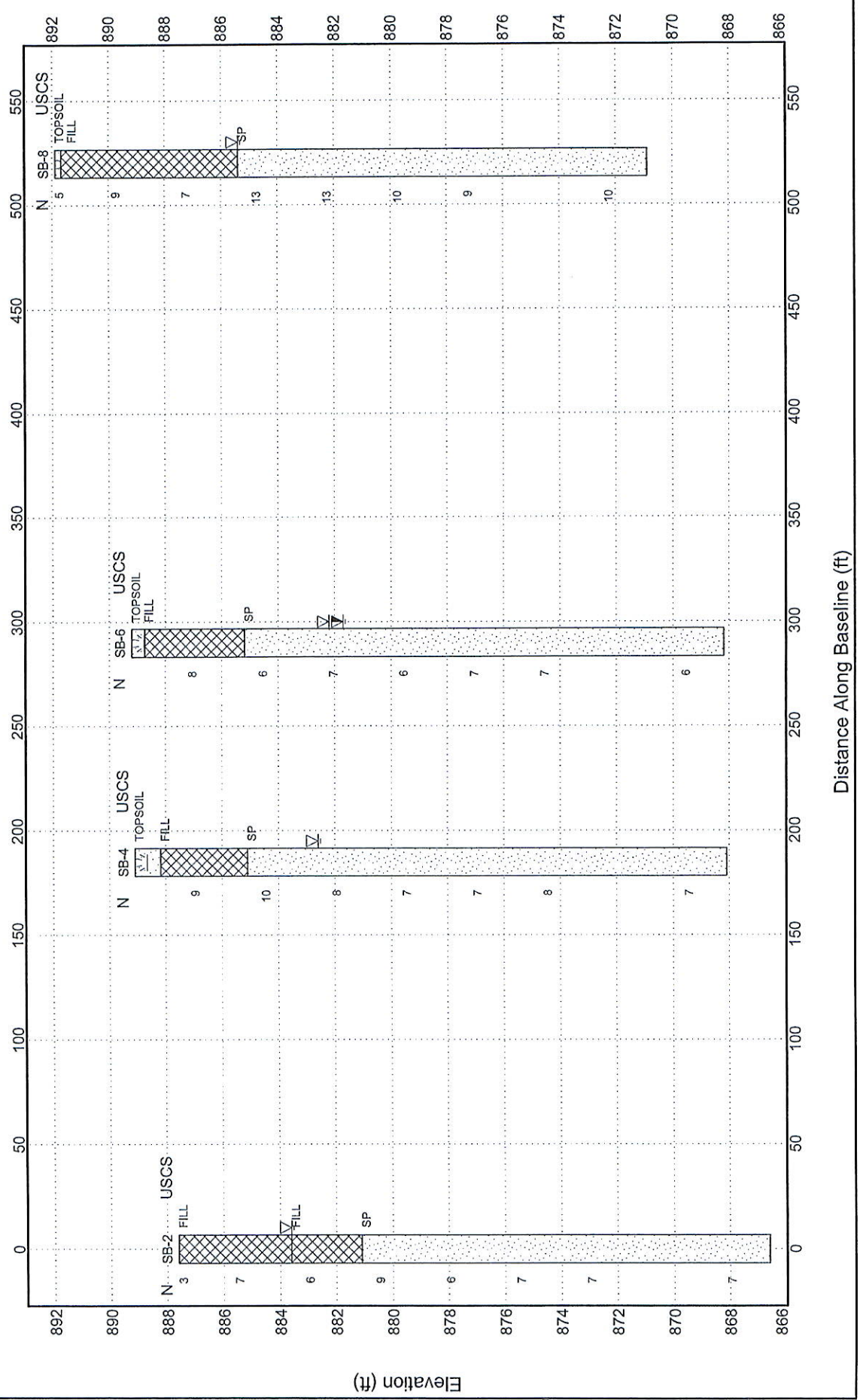
# SUBSURFACE DIAGRAM

PROJECT NAME Spring Lake Park Development

PROJECT LOCATION Spring Lake, MN

CLIENT MFRA

PROJECT NUMBER 14.60612.100





## GROUND WATER ISSUES

*The following presents additional comment and soil specific issues related to measurement of ground water conditions at your project site.*

Note that our ground water measurements, or lack thereof, will vary depending on the time allowed for equilibrium to occur in the borings. Extended observation time was not available during the scope of the field exploration program and, therefore, ground water measurements as noted on the borings logs may or may not accurately reflect actual conditions at your site.

Seasonal and yearly fluctuations of the ground water level, if any, occur. Perched ground water may be present within sand and silt lenses bedded within cohesive soil formations. Groundwater typically exists at depth within cohesive and cohesionless soils.

The installation of a well point system would likely be the most effective method for dewatering the onsite clean granular soils.

We caution such seepage from such formations and any water entry from excavations below the ground water table may be heavy and will vary based on seasonal and annual precipitation, and ground related impacts in the vicinity of the project.





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## PLACEMENT and COMPACTION OF ENGINEERED FILL

*Unless otherwise superseded within the body of the Geotechnical Exploration Report, the following criteria shall be utilized for placement of engineered fill on project. This includes, but is not limited to earthen fill placement to improve site grades, fill placed below structural footings, fill placed interior of structure, and fill placed as backfill of foundations.*

Engineered fill placed for construction, if necessary should consist of natural, non-organic, competent soils native to the project area. Such soils may include, but are not limited to gravel, sand, or clays with Unified Soil Classification System (ASTM D2488) classifications of GW, SP, SM, CL or CH. Use of silt or clayey silt as project fill will require additional review and approval of project Geotechnical Engineer of Record. Such soils have USCS classifications of ML, MH, ML-CL, MH-CH. Use of topsoil, marl, peat, other organic soils construction debris and/or other unsuitable materials as fill is not allowed. Such soils have USCS classifications of OL, OH, Pt.

Engineered fill, classified as clay, should be tempered such that the moisture content at the time of placement is equal to and no more than 3 percent above the optimum content for as defined by the appropriate proctor test. Likewise, engineered fill classified as gravel or sand should be tempered such that the moisture content at the time of placement is within 3 percent of the optimum content.

All engineered fill for construction should be placed in individual 8 inch maximum depth lifts. Each lift of fill should be compacted by large vibratory equipment until the in-place soil density is equal to or greater than the criteria established within the following tabulation.

Type of Construction	Compaction Criteria (% respective Proctor) <sup>1</sup>	
	Clay	Sand or Gravel
General Embankment Fill (Green Space)	Min. 95	Min. 95
Engineered Fill below Foundations	NA	Min.100
Engineered Fill below Floor Slabs	NA	Min. 98
Engineered Fill placed as Pavement Aggregate Base	NA	Min. 100
Engineered Fill placed to within 3 feet of pavement aggregate base	Min. 95	Min. 95
Engineered Fill placed within 3 feet of pavement aggregate base	Min. 100	Min. 100

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Note 1 Unless otherwise required, compaction criteria shall be based on the Standard Proctor Test (ASTM D698).

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Density tests should be taken during engineered fill placement to document earthwork has achieved necessary compaction of the material(s). Recommendations for interior fill placement and backfill of foundation walls are presented within other sections of this report.

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