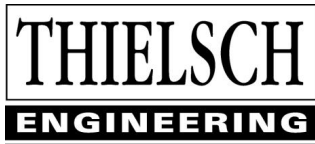


Textron, Inc.
Former Gorham Manufacturing Facility, Providence, RI
Remedial Action Completion Report: Phase II Area – Mashapaug Inner Cove,
Phase III Area – Northeast Upland And Parcel C
Project No.: 3652160001
February 12, 2016



APPENDIX G
COMPACTION TEST RESULTS



195 Frances Avenue
Cranston, Rhode Island 02910
Phone: 401-467-6454
Fax: 401-467-2398
<http://www.Thielsch.com>

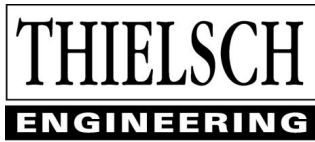
Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	September 14 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jin Tian Zhu
Report ID:	9-14-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing .		

Reference Drawings:	Proposed Site Plan C-102, 6/24/2015.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S & S.
Material Classification:	Light brown Poorly-graded Sand with Silt (SP-SM)
Material Type:	Common Borrow.
Earthwork Location:	Backfill proposed Parcel C area with Sandy Fill material.
Subgrade Review:	Subgrade consisted of in-situ material overlain with geo-fabric.
Groundwater:	No groundwater was encountered during today's earthwork activities. .
Lift Thickness:	Material was placed in approximate 6-inch compacted lifts.
Method of Compaction:	Material was compacted using a BOMAG 10-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Modified Proctor. (ASTM D1557)
Laboratory Sample No.:	T.E.I. 15-MC-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 90% of the proctor value, and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results prior to departure.

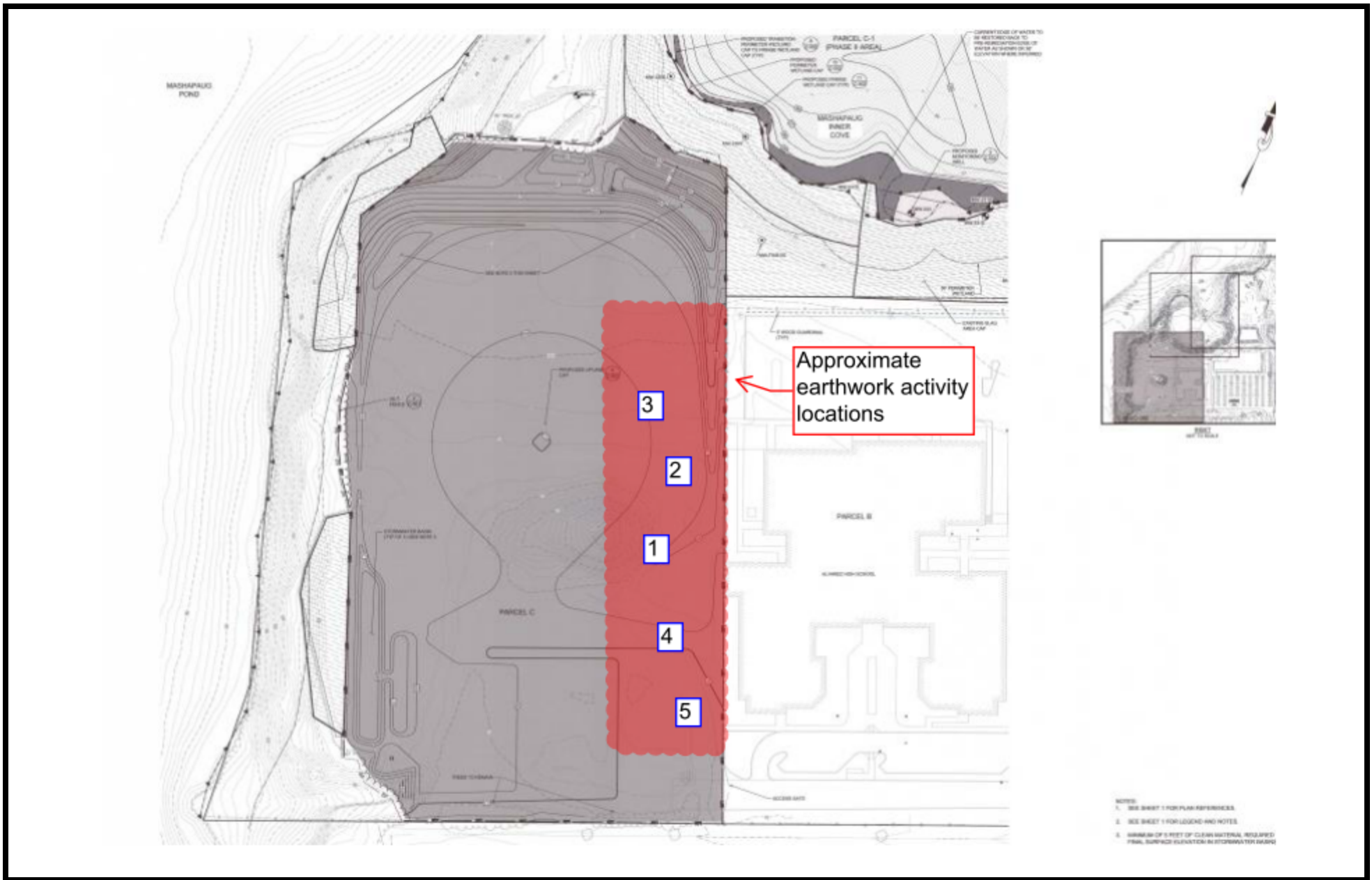
Report ID: 9-14-15 Earthwork Daily Report.

Attachments: 9-14-15 Earthwork QC Report and 9-14-15 Field Sketch.

Observed By: Jin Tian Zhu
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.

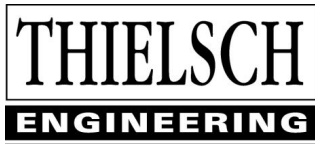


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Client Information
Charter Environmental
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

Site Plan: Proposed Site Plan C-102
Project No.: CTS 74-15-0087
Report No. 9-14-15 FS
Technician: Jin Tian Zhu
Date: September 14th, 2015



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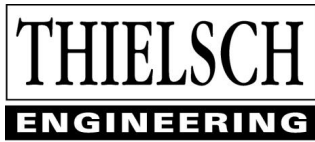
Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	September 17 th , 2015
Project No.	CTS 74-15-0087	Technician:	Kyle Hogan
Report ID:	9-17-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed Site Plan C-102, 6/24/2015.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S & S.
Material Classification:	Light brown Poorly-graded Sand with Silt (SP-SM)
Material Type:	Common Borrow.
Earthwork Location:	Backfill proposed Parcel C area with Sandy Fill material.
Subgrade Review:	Subgrade consisted of in-situ material overlain with geo-fabric.
Groundwater:	No groundwater was encountered during today's earthwork activities. .
Lift Thickness:	Material was placed in approximate 6-inch compacted lifts.
Method of Compaction:	Material was compacted using a BOMAG 10-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-SC-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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pleofanti@charter.us


EARTHWORK FIELD REPORT Cont.

Test Results: Fifteen (15) compaction tests were performed. Test results were above 90% of the proctor value, and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results prior to departure.

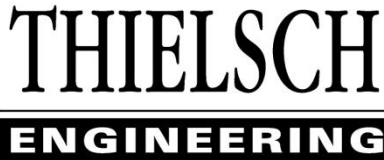
Report ID: 9-17-15 Earthwork Daily Report.

Attachments: 9-17-15 Earthwork QC Report and 9-17-15 Field Sketch.

Observed By: 
Kyle Hogan
Field technician

Reviewed By: 
Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
 Charter Environmental Inc.
 500 Harrison Ave Suite 4R
 Boston, MA 02118
pleofanti@charter.us

Earthwork Field Density Report

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	9/17/2015

Density Gauge Information			
Make:	Troxler	Date of Calibration:	1/16/2015
Model No.:	3440	Source of Calibration:	QC Resources
Serial No.:	18207	Standard Counts:	D: 2247 M: 593
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

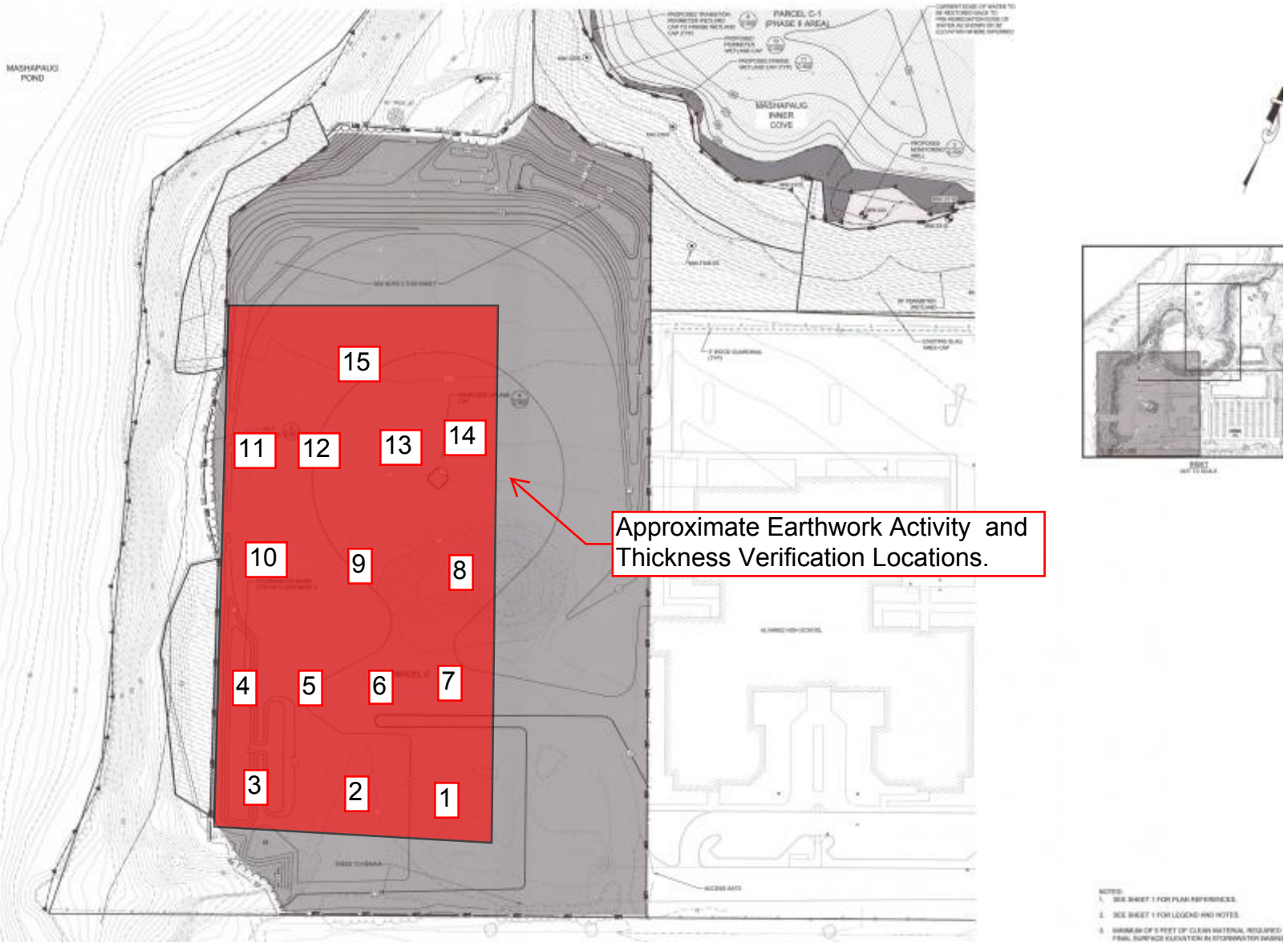
Material Information			
Description:	Light Brown Poorly-graded Sand with Silt (SP-SM)	TEI Laboratory Sample Number:	15-SC-668
Source:	Material S & S	Corrected Max Dry Unit Wt. (pcf):	102.3
Location:	Proposed Parcel C Area	Corrected Opt Water Content (%):	13.1
Datum:	Top Soil subgrade	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	See Field Sketch	FG	4	3.7	99.6	97.4%
2		FG	4	2.5	93.8	91.7%
3		FG	4	3.1	96.4	94.2%
4		FG	4	4.2	97.0	94.8%
5		FG	4	3.1	96.8	94.6%
6		FG	4	3.7	92.2	90.1%
7		FG	4	3.3	92.8	90.7%
8		FG	4	3.0	94.1	92.0%
9		FG	4	3.6	96.7	94.5%
10		FG	4	4.1	97.0	94.8%
11		FG	4	2.4	96.2	94.0%
12		FG	4	2.8	98.4	96.2%
13		FG	4	2.7	94.0	91.9%
14		FG	4	6.1	99.4	97.2%
15		FG	4	5.0	98.6	96.4%

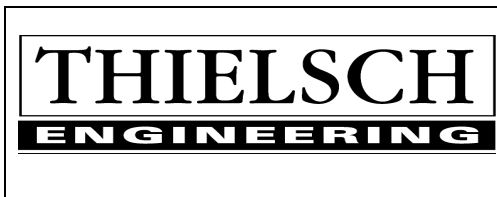
Results Within Specification Limits: Results Outside Specification Limits:

Comments:

Tested By: Kyle Hogan	Reviewed By: Matthew Colman, EIT
Title: Field technician Date: 9/17/2015	Title: Staff Engineer Date: 10/5/2015
<i>Kyle Hogan</i>	<i>Matthew Colman</i>



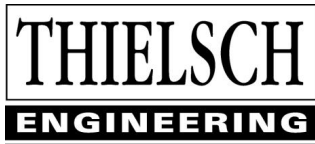
Approximate Earthwork Activity and Thickness Verification Locations.



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Client Information
 Charter Environmental
 500 Harrison Ave Suite 4R
 Boston, MA 02118
pleofanti@charter.us

Site Plan: Proposed Site Plan C-102
 Project No.: CTS 74-15-0087
 Report No. 9-17-15 FS
 Technician: Kyle Hogan
 Date: September 17th, 2015



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Client Information
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500 Harrison Ave Suite 4R
Boston, MA 02118
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	September 21 st , 2015
Project No.	CTS 74-15-0087	Technician:	Jin Tian Zhu
Report ID:	9-21-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing		

Reference Drawings: Proposed Site Plan C-102, 6/24/2015.

Earthwork Contractor: Charter Environmental Inc.

Material Source: Material S & S.

Material Classification: Light brown poorly-graded Sand with Silt (SP-SM)

Material Type: Sandy Fill.

Earthwork Location: Backfill proposed Parcel C area with Sandy fill material.

Subgrade Review: Subgrade consisted of existing material.

Groundwater: No groundwater was encountered during today's earthwork activities.

Lift Thickness: Material was placed in approximate 6-inch compacted lifts.

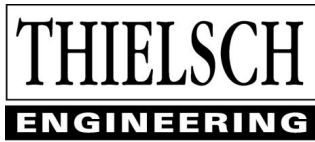
Method of Compaction: Material was compacted using a BOMAG 10-ton vibratory roller.

Method of Density Testing: In-place test method using nuclear gauge. (ASTM D6938)

Proctor Method: Standard Proctor. (ASTM D698)

Laboratory Sample No.: T.E.I. 15-SC-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT Cont.

Test Results: Three (3) compaction tests were performed. Test results were above 90% of the proctor value, and in general accordance with project specifications.

Comments: Lift thickness for topsoil and common borrow material was observed to be 6-inches compacted prior to testing of each lift. Mike Gentile of Charter Environmental Inc. was notified of test results prior to departure.

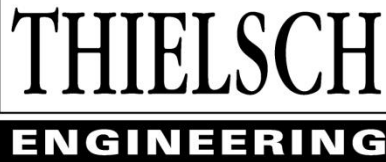
Report ID: 9-21-15 Earthwork Daily Report.

Attachments: 9-21-15 Earthwork QC Report and 9-21-15 Field Sketch.

Observed By: Jin Tian Zhu
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
 Charter Environmental Inc.
 500 Harrison Ave Suite 4R
 Boston, MA 02118
pleofanti@charter.us

Earthwork Field Density Report

Project: <u>Textron Providence</u>	TEI Project No.: <u>CTS 74-15-0087</u>
Project Address: <u>333 Adelaide, Providence, RI 02903</u>	Date of Service: <u>9/21/2015</u>


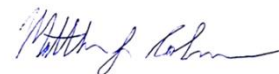
Density Gauge Information			
Make: <u>Troxler</u>	Date of Calibration: <u>1/16/2015</u>		
Model No.: <u>3440</u>	Source of Calibration: <u>QC Resources</u>		
Serial No.: <u>18207</u>	Standard Counts: <u>D: 2246 M 595</u>		
Duration of Test: <u>15 Seconds</u>	Moisture Offset (%): <u>N/A</u>		

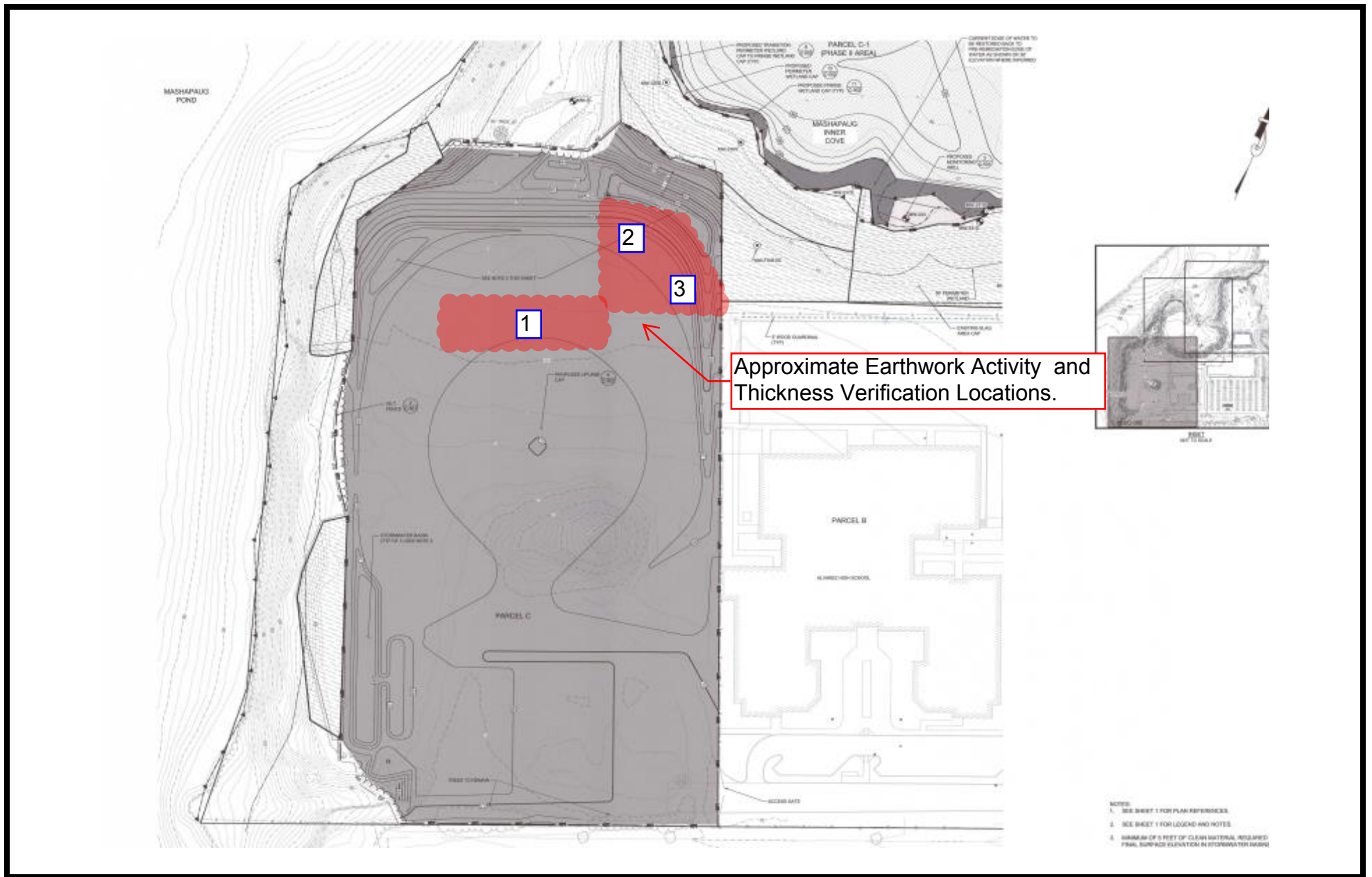
Material Information			
Description: <u>Light brown Poorl-graded Sand with Silt (SP-SM)</u>	TEI Laboratory Sample Number: <u>15-SC-668</u>		
Source: <u>Material S & S</u>	Corrected Max Dry Unit Wt. (pcf): <u>102.3</u>		
Location: <u>Proposed Parcel C area</u>	Corrected Opt Water Content (%): <u>13.1</u>		
Datum: <u>Top soil subgrade</u>	Req. Minimum Compaction (%): <u>90.0</u>		

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	See Field Sketch	FG	4	8.0	97.5	95.3%
2		FG	4	9.0	96.0	93.8%
3		FG	4	9.7	95.5	93.4%

Results Within Specification Limits: Results Outside Specification Limits:

Comments:

Tested By: <u>Jin Tian Zhu</u>	Reviewed By: <u>Matthew Colman, EIT</u>
Title: <u>Field Engineer</u> Date: <u>9/22/2015</u>	Title: <u>Staff Engineer</u> Date: <u>10/5/2015</u>
	

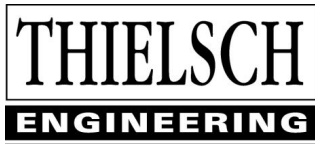


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Client Information
 Charter Environmental, Inc.
 500 Harrison Ave Suite 4R
 Boston, MA 02118
pleofanti@charter.us

Site Plan: Proposed Site Plan C-102
 Project No.: CTS 74-15-0087
 Report No. 9-21-15 FS
 Technician: Jin Tian Zhu
 Date: September 21st, 2015



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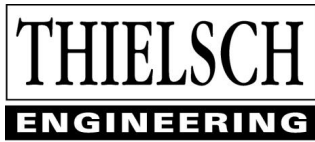
Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	September 25 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jin Tian Zhu
Report ID:	9-25-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed Site Plan C-102, 6/24/2015.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S & S.
Material Classification:	Light brown poorly-graded Sand with Silt (SP-SM)
Material Type:	Sandy Fill.
Earthwork Location:	Backfill proposed Parcel C area with Sandy fill material.
Subgrade Review:	Subgrade consisted of existing material.
Groundwater:	No groundwater was encountered during today's earthwork activities. .
Lift Thickness:	Material was placed in approximate 6-inch compacted lifts.
Method of Compaction:	Material was compacted using a BOMAG 10-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-SC-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT Cont.

Test Results: Three (3) compaction tests were performed. Test results were above 90% of the proctor value, and in general accordance with project specifications for given backfill elevations.

Comments: Lift thickness for topsoil and common borrow material was observed to be 6-inches compacted prior to testing of each lift. Mike Gentile of Charter Environmental Inc. was notified of test results prior to departure.

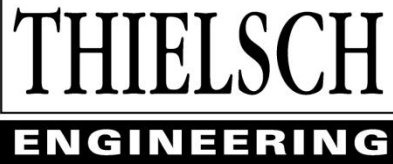
Report ID: 9-25-15 Earthwork Daily Report.

Attachments: 9-25-15 Earthwork QC Report and 9-25-15 Field Sketch.

Observed By: Jin Tian Zhu
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

Earthwork Field Density Report

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	9/25/2015

Density Gauge Information			
Make:	Troxler	Date of Calibration:	1/16/2015
Model No.:	3440	Source of Calibration:	QC Resources
Serial No.:	18207	Standard Counts:	D: 2249 M 598
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

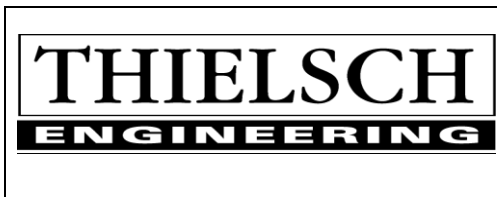
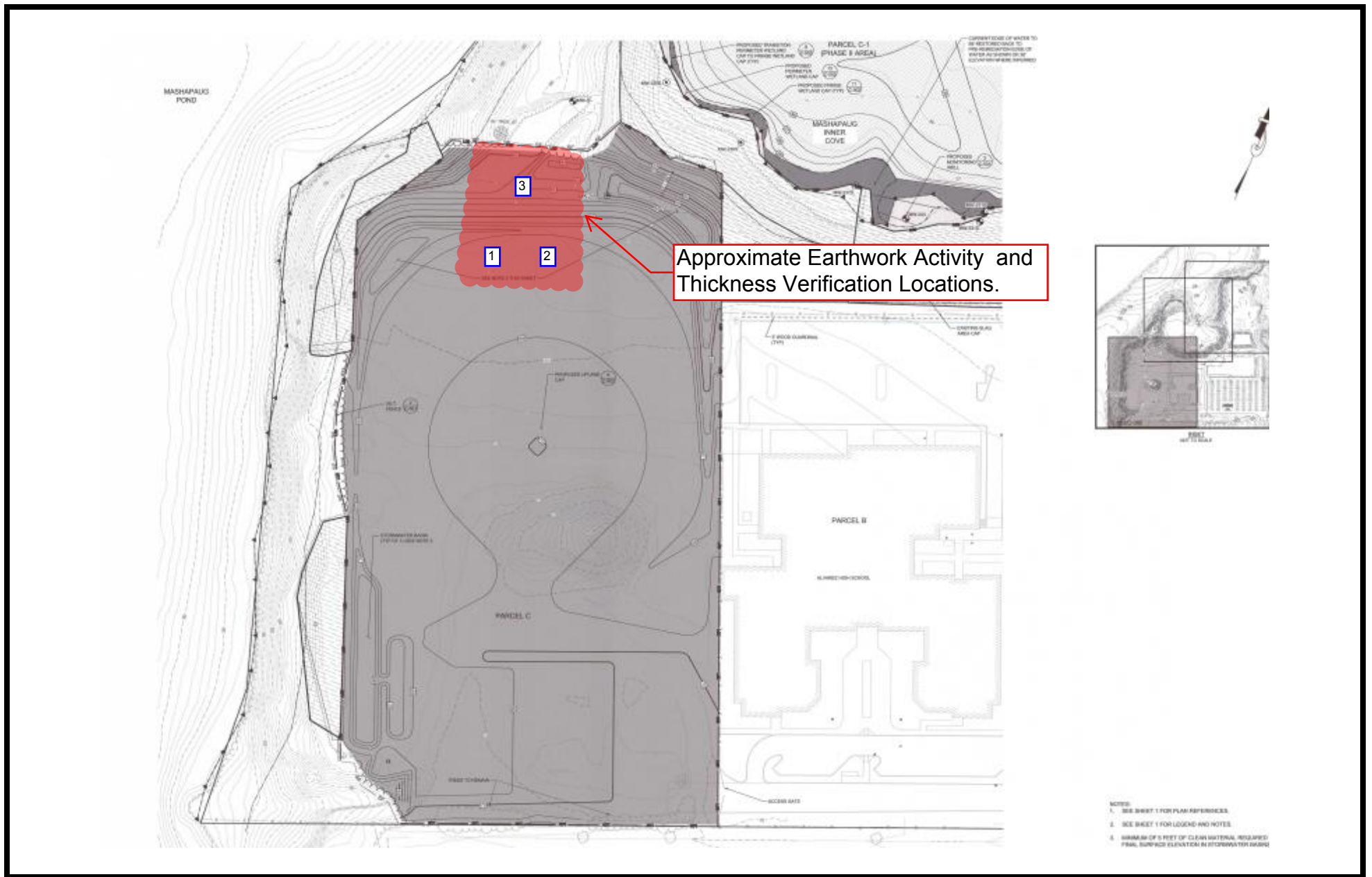
Material Information			
Description:	Light brown Poorl-graded Sand with Silt (SP-SM)	TEI Laboratory Sample Number:	15-SC-668
Source:	Material S & S	Corrected Max Dry Unit Wt. (pcf):	102.3
Location:	Proposed Parcel C area	Corrected Opt Water Content (%):	13.1
Datum:	Top soil subgrade	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	See Field Sketch	FG	4	8.2	99.9	97.7%
2		FG	4	7.4	98.5	96.3%
3		FG	4	8.6	97.8	95.6%

Results Within Specification Limits: Results Outside Specification Limits:

Comments:

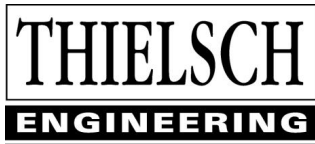
Tested By: Jin Tian Zhu	Reviewed By: Matthew Colman, EIT
Title: Field Engineer Date: 9/29/2015	Title: Staff Engineer Date: 10/5/2015



195 Frances Avenue
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 Fax: 401-467-2398
<http://www.Thielsch.com>

Client Information
 Charter Environmental, Inc.
 500 Harrison Ave Suite 4R
 Boston, MA 02118
pleofanti@charter.us

Site Plan: Proposed Site Plan C-102
 Project No.: CTS 74-15-0087
 Report No. 9-25-15 FS
 Technician: Jin Tian Zhu
 Date: September 25th, 2015



195 Frances Avenue
Cranston, Rhode Island 02910
Phone: 401-467-6454
Fax: 401-467-2398
<http://www.Thielsch.com>

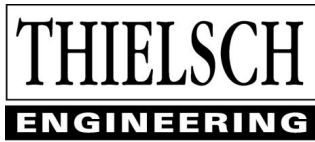
Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	October 5 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	10-05-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed Site Plan C-102, 6/24/2015.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S&S.
Material Classification:	Light brown Poorly-graded Sand with Silt (SP-SM)
Material Type:	Common Borrow.
Earthwork Location:	Backfill of Parcel C and southern entrance area.
Subgrade Review:	Subgrade consisted of in-situ material overlain with geo-fabric.
Groundwater:	No groundwater was encountered during today's earthwork inspection time. .
Lift Thickness:	Material was placed in approximate 6-inch compacted lifts.
Method of Compaction:	Material was compacted using a BOMAG 10-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-SC-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT Cont.

Test Results: Twelve (12) compaction tests were performed. Test results were above 90% of the proctor value, and in general accordance with project specifications. Compaction tests at southern site entrance were over 100%. These results may be due to material change or exposure to heavy construction traffic.

Comments: Lift thickness for common borrow material was observed to be 6-inches compacted prior to testing. Mike Gentile of Charter Environmental was notified of test results prior to departure.

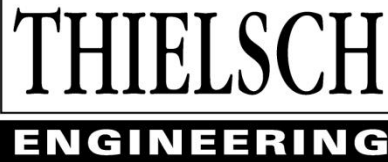
Report ID: 10-05-15 Earthwork Daily Report.

Attachments: 10-05-15 Earthwork QC Report and 10-05-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
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 500 Harrison Ave Suite 4R
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Earthwork Field Density Report

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	10/5/2015

Density Gauge Information			
Make:	Humboldt	Date of Calibration:	1/16/2015
Model No.:	HS-5001EZ	Source of Calibration:	QC Resources
Serial No.:	4294	Standard Counts:	D: 2899.4 M: 450
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

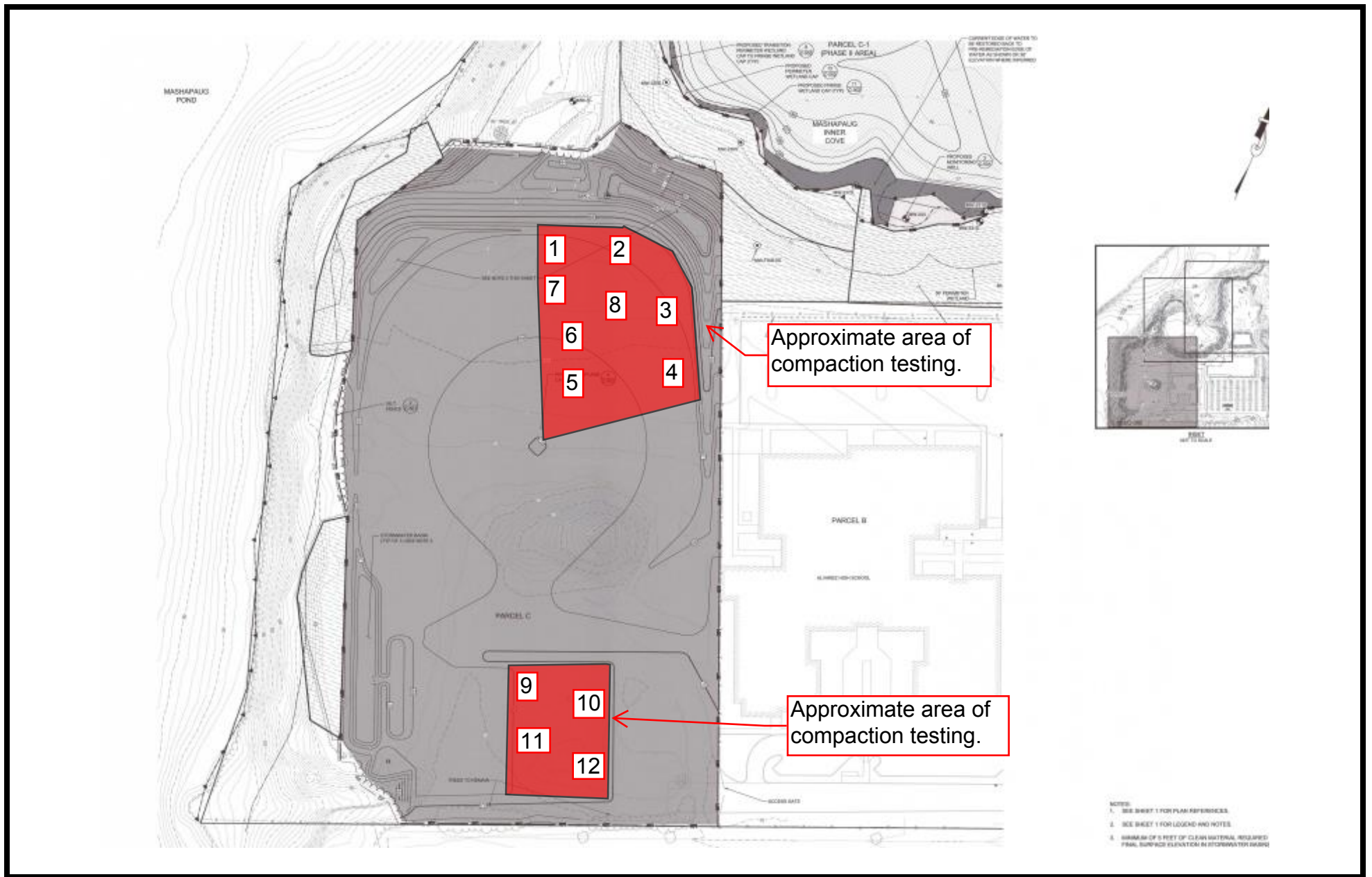
Material Information			
Description:	Light brown Poorl-graded Sand with Silt (SP-SM)	TEI Laboratory Sample Number:	15-SC-668
Source:	On-Site	Corrected Max Dry Unit Wt. (pcf):	102.3
Location:	North corner of parcel C and Site Entrance	Corrected Opt Water Content (%):	13.1
Datum:	Capping subgrade	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	See Field Sketch	1	6	17.8	94.3	92.2%
2		1	6	15.1	95.5	93.4%
3		1	6	14.9	99.6	97.4%
4		1	6	14.8	100.6	98.3%
5		1	6	17.1	92.7	90.6%
6		1	6	22.0	94.6	92.5%
7		1	6	16.9	94.0	91.9%
8		1	6	14.8	92.2	90.1%
9	Site Entrance	1	6	13.9	110.2	107.7%
10		1	6	14.2	108.5	106.1%
11		1	6	14.7	108.0	105.6%
12		1	6	16.1	107.9	105.5%

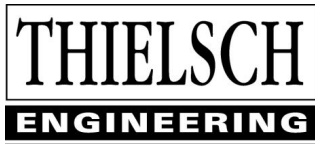
Results Within Specification Limits: Results Outside Specification Limits:

Comments:

Tested By: Imtiaz Ahmed	Reviewed By: Matthew Colman, EIT
Title: Field Engineer Date: 10/5/2015	Title: Staff Engineer Date: 10/16/2015



	195 Frances Avenue	Client Information	Site Plan: Proposed Site Plan C-102
	Cranston, Rhode Island 02910	Charter Environmental, Inc.	Project No.: CTS 74-15-0087
	Phone: 401-467-6454	500 Harrison Ave Suite 4R	Report No. 10-05-15 FS
	Fax: 401-467-2398	Boston, MA 02118	Technician: Imtiaz Ahmed
	http://www.Thielsch.com	pleofanti@charter.us	Date: October 5 th , 2015



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Client Information
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Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 4 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	11-4-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings: Proposed site plan sheet 3 of 3.

Earthwork Contractor: Charter Environmental Inc.

Material Source: On-site processed.

Material Classification: Dark brown silty sand with gravel (SM).

Material Type: Cove Sediment with 6% KLD Blend.

Earthwork Location: Proposed upland soil cap, see field sketch for test locations.

Subgrade Review: Material was placed prior to TEI's arrival.

Groundwater: No groundwater was encountered during today's earthwork inspection time.

Lift Thickness: Material was placed in approximate 12-inch compacted lifts.

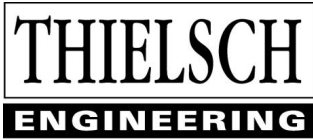
Method of Compaction: Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory roller.

Method of Density Testing: In-place test method using nuclear gauge. (ASTM D6938)

Proctor Method: Standard Proctor. (ASTM D698)

Laboratory Sample No.: T.E.I. 15-S-1110.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Four (4) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test strip results prior to departure.

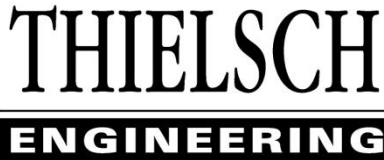
Report ID: 11-4-15 Earthwork Daily Report.

Attachments: 11-4-15 Earthwork QC Report & 11-4-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
 Charter Environmental Inc.
 500 Harrison Ave Suite 4R
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Field Density Report

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	11/4/2015

Density Gauge Information			
Make:	Humboldt	Date of Calibration:	4/1/2015
Model No.:	5001EZ	Source of Calibration:	QC Resources
Serial No.:	4295	Standard Counts:	D: 2527.3 M: 448.1
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

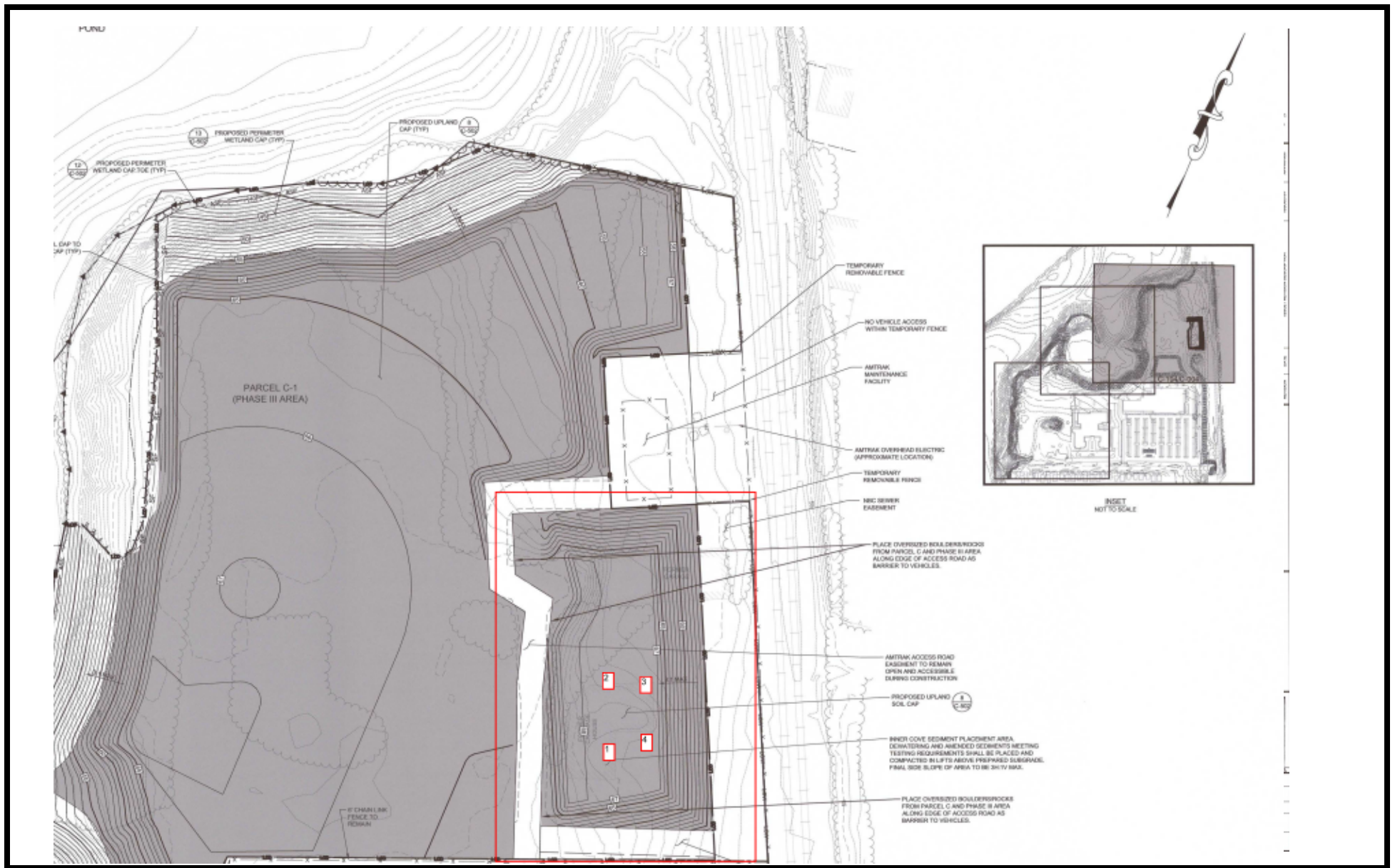
Material Information			
Description:	Dark Brown Silty Sand with Gravel (SM)	TEI Laboratory Sample Number:	15-S-1110
Source:	On-Site Cove Sediment with 6% KLD Blend	Corrected Max Dry Unit Wt. (pcf):	92.6
Location:	Proposed Upland Soil Cap	Corrected Opt Water Content (%):	22.9
Datum:	Bottom of Cap	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	Main Cap Area (See Field Sketch)	1	8	26.9	84.5	91.3%
2	Main Cap Area (See Field Sketch)	1	8	23.6	91.1	98.4%
3	Main Cap Area (See Field Sketch)	1	8	25.5	85.4	92.2%
4	Main Cap Area (See Field Sketch)	1	8	24.9	86.4	93.3%

Results Within Specification Limits: Results Outside Specification Limits:

Comments: 6% KLD Blend - 15-SC-1110 92.6pcf @ 22.9% moisture.

Tested By: Imtiaz Ahmed	Reviewed By: Matthew Colman, EIT
Title: Field Engineer Date: 11/4/2015	Title: Staff Engineer Date: 11/16/2015

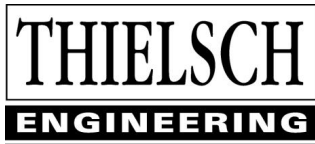


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ENGINEERING

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Proposed Site Plan 3 of 3
Project No.: CTS 74-15-0087
Report No. 11-04-15 FS
Technician: Imtiaz Ahmed
Date: November 4th, 2015



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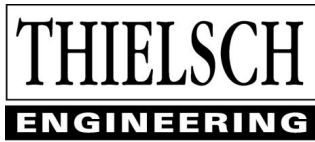
Client Information
Charter Environmental Inc.
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 5 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	11-5-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	On-site processed.
Material Classification:	Dark brown silty sand with gravel (SM).
Material Type:	Cove sediment with 6% KLD blend.
Earthwork Location:	Upland soil cap 20-foot buffer around perimeter slope. (see field sketch)
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork inspection time. .
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts.
Method of Compaction:	Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-1110.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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EARTHWORK FIELD REPORT Cont.

Test Results: Three (3) compaction tests were performed. Test results were above 93% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results for the cap area prior to departure.

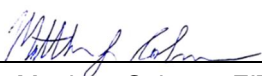
Report ID: 11-5-15 Earthwork Daily Report.

Attachments: 11-5-15 Earthwork QC Report & 11-5-15 Field Sketch.

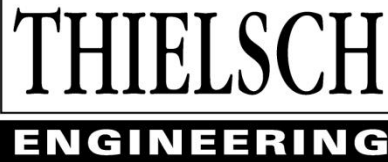
Observed By:


Imtiaz Ahmed
Field Engineer

Reviewed By:


Matthew Colman, EIT
Staff Engineer

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Client Information:
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Field Density Report

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	11/5/2015

Density Gauge Information			
Make:	Humboldt	Date of Calibration:	4/1/2015
Model No.:	5001EZ	Source of Calibration:	QC Resources
Serial No.:	4295	Standard Counts:	D: 2533.1 M: 442.6
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

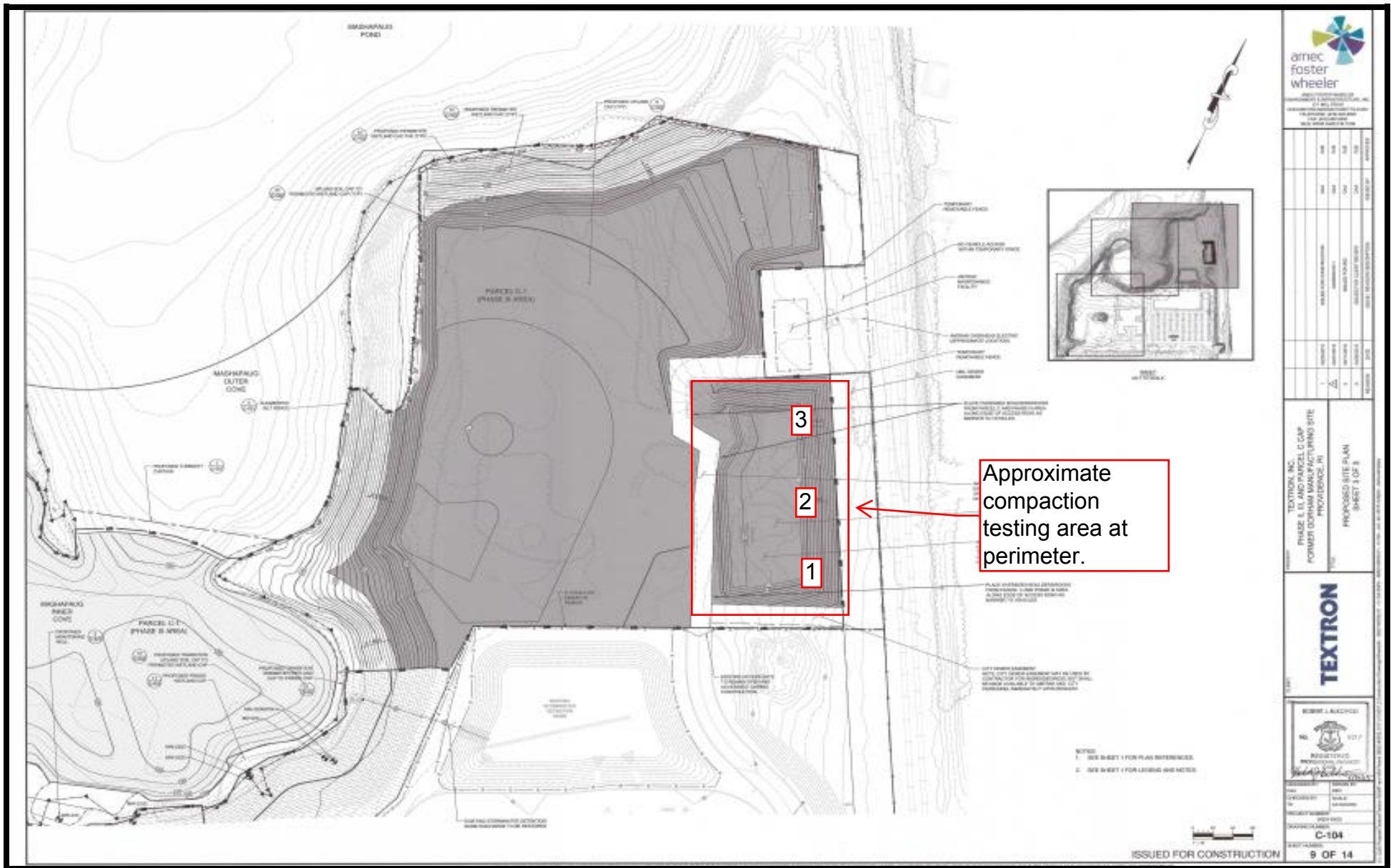
Material Information			
Description:	Dark Brown Silty Sand with Gravel (SM)	TEI Laboratory Sample Number:	15-S-1110
Source:	On-Site Cove Sediment with 6% KLD Blend	Corrected Max Dry Unit Wt. (pcf):	92.6
Location:	Proposed Upland Soil Cap	Corrected Opt Water Content (%):	22.9
Datum:	Bottom of Cap	Req. Minimum Compaction (%):	93.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	(Perimeter) See field sketch	1	8	28.6	86.3	93.2%
2	(Perimeter) See field sketch	1	8	26.4	90.1	97.3%
3	(Perimeter) See field sketch	1	8	26.2	87.1	94.1%

Results Within Specification Limits: Results Outside Specification Limits:

Comments:

Tested By: Imtiaz Ahmed	Reviewed By: Matthew Colman, EIT
Title: Field Engineer Date: 11/5/2015	Title: Staff Engineer Date: 11/16/2015

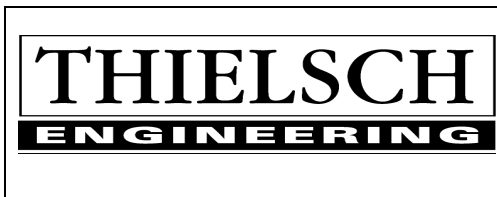


NO.	DATE	BY	REVISION
1	11/05/15	IA	ISSUED FOR CONSTRUCTION

TEXTRON, INC.
PHASE B, L1 AND PARCEL C-1 CAP
FORMER GORHAM MANUFACTURING SITE
PROVIDENCE, RI
PROPOSED SITE PLAN
SHEET 3 OF 3



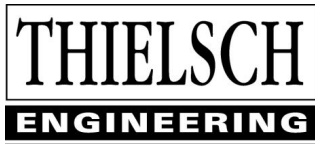
PROJECT NO.: C-104
DATE: 11/05/15
9 OF 14



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Client Information
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Boston, MA 02118
pleofanti@charter.us

Proposed Site Plan 3 of 3
Project No.: CTS 74-15-0087
Report No. 11-05-15 FS
Technician: Imtiaz Ahmed
Date: November 5th, 2015



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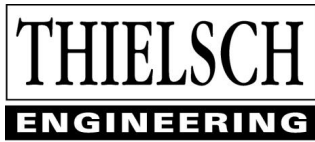
Client Information
Charter Environmental Inc.
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 10 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	11-10-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S&S.
Material Classification:	Light brown poorly graded sand with silt (SP-SM).
Material Type:	Common borrow.
Earthwork Location:	Upland area (see field sketch).
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork inspection time.
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts.
Method of Compaction:	Material was compacted using an HYPAC C-840D 11-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Seven (7) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of results prior to departure.

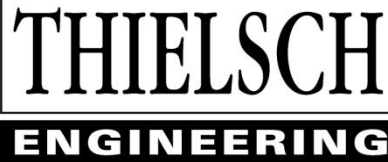
Report ID: 11-10-15 Earthwork Daily Report.

Attachments: 11-10-15 Earthwork QC Report & 11-10-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
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 Boston, MA 02118
pleofanti@charter.us

Earthwork Field Density Report

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	11/10/2015

Density Gauge Information			
Make:	Troxler	Date of Calibration:	1/6/2015
Model No.:	3440	Source of Calibration:	QC Resources
Serial No.:	18207	Standard Counts:	D: 2248 M: 660
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

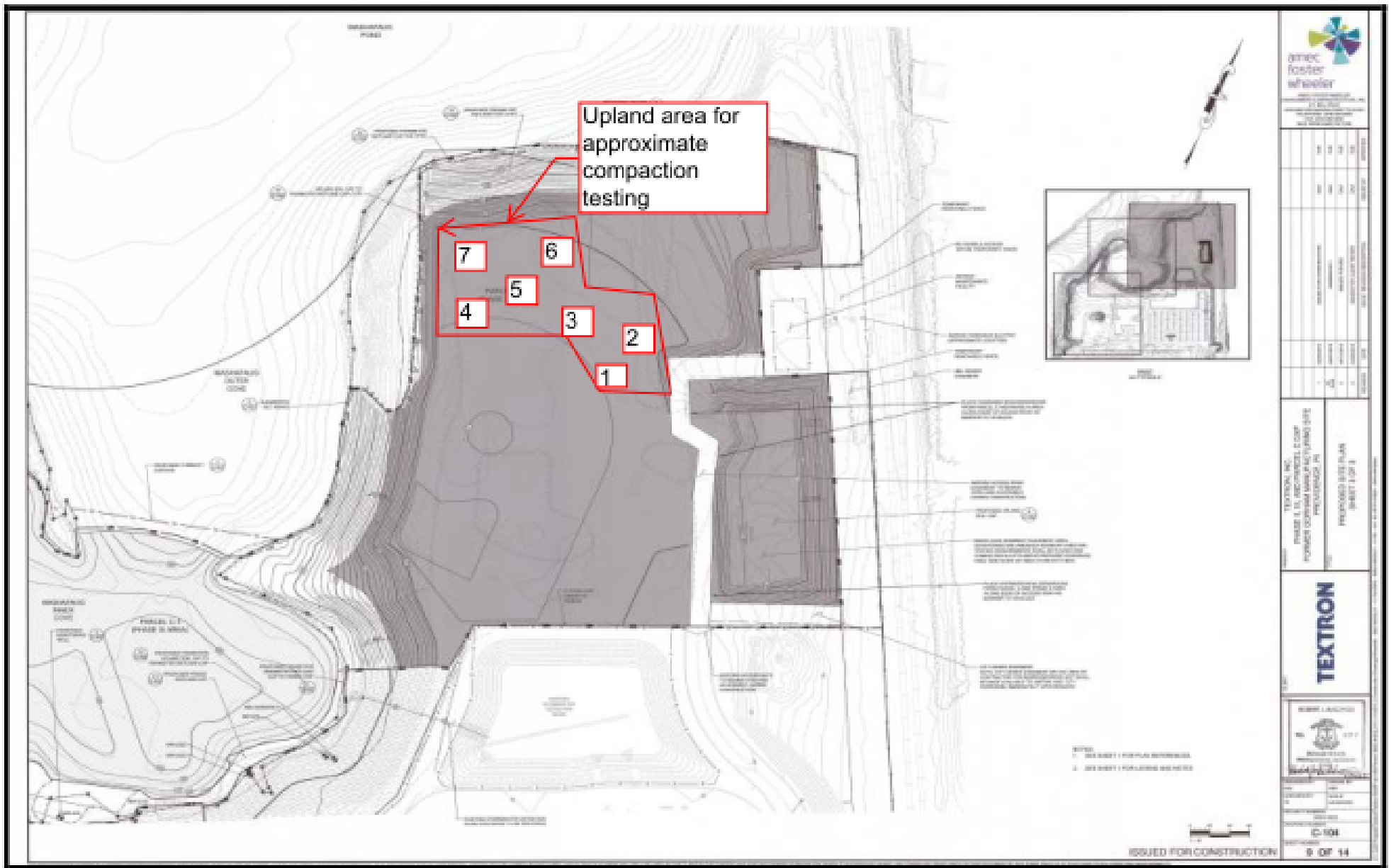
Material Information			
Description:	Brown Silty Sand with Gravel (SM)	TEI Laboratory Sample Number:	15-S-668
Source:	Material S&S	Corrected Max Dry Unit Wt. (pcf):	102.3
Location:	Upland Area	Corrected Opt Water Content (%):	13.1
Datum:	Finished Grade	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	See Field Sketch	65	8	6.8	103.7	101.4%
2	See Field Sketch	65	8	7.7	99.5	97.3%
3	See Field Sketch	65	8	7.3	101.9	99.6%
4	See Field Sketch	65	8	6.5	103.1	100.8%
5	See Field Sketch	65	8	7.8	103.8	101.5%
6	See Field Sketch	65	8	7.5	105.4	103.0%
7	See Field Sketch	65	8	6.1	102.0	99.7%

Results Within Specification Limits: Results Outside Specification Limits:

Comments:

Tested By: Imtiaz Ahmed	Reviewed By: Matthew Colman, EIT
Title: Field Engineer Date: 11/10/2015	Title: Staff Engineer Date: 11/16/2015



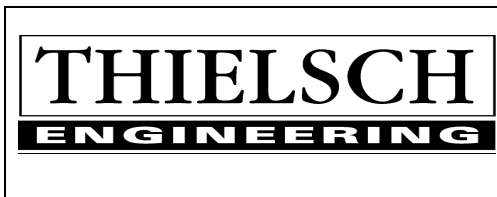
NO. OF SHEETS	14
NO. OF SHEETS USED	14
NO. OF SHEETS CHECKED	14
NO. OF SHEETS APPROVED	14
NO. OF SHEETS REVISIONS	0
DATE	11/10/15

TECHNICAL NO. 11-10-15-FS-0087
 PROJECT NO. CTS 74-15-0087
 SHEET NO. 3 OF 14

TEXTRON



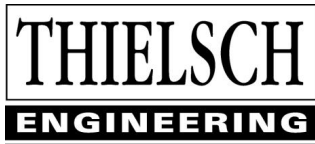
ISSUED FOR CONSTRUCTION
 9 OF 14



195 Frances Avenue
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 Fax: 401-467-2398
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Client Information
 Charter Environmental, Inc.
 500 Harrison Ave Suite 4R
 Boston, MA 02118
pleofanti@charter.us

Proposed site plan sheet 3 of 3
 Project No.: CTS 74-15-0087
 Report No. 11-10-15 FS
 Technician: Imtiaz Ahmed
 Date: November 10th, 2015



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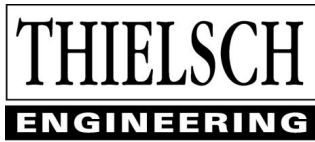
Client Information
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500 Harrison Ave Suite 4R
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EARTHWORK FIELD REPORT A

Project:	Textron Providence	Service Date:	November 12 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jason Rapose
Report ID:	11-12-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	On-site 6% KLD processed.
Material Classification:	Dark brown silty sand with gravel (SM).
Material Type:	Cove Sediment with 6% KLD blend.
Earthwork Location:	Main body area shown in field sketch.
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork inspection time.
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts.
Method of Compaction:	Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory sheepsfoot roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-1110.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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EARTHWORK FIELD REPORT Cont.

Test Results: Four (4) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Area tested was the second lift (2nd) placed for this area. Mike Gentile of Charter Environmental Inc. was notified of test results prior to departure

Report ID: 11-12-15 Earthwork Daily Report A.

Attachments: 11-12-15 Earthwork QC Report A & 11-12-15 Field Sketch.

Observed By: 
Jason Rapose
Field Technician

Reviewed By: 
Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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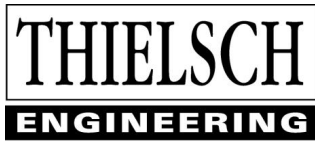
Client Information
Charter Environmental Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

EARTHWORK FIELD REPORT B

Project:	Textron Providence	Service Date:	November 12 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jason Rapose
Report ID:	11-12-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed Site Plan C-104.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S&S.
Material Classification:	Light brown Poorly – graded Sand with Silt (SP-SM).
Material Type:	Sandy Fill (Common Borrow).
Earthwork Location:	Parcel C-1 in field sketch.
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork inspection time.
Lift Thickness:	Material was placed in approximate 6-inch compacted lifts.
Method of Compaction:	Material was compacted using an HYPAC C840D 11-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Six (6) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: At the request of Mike Gentile of Charter Environmental, two test pits were dug in the phase III area tested to verify at least six inches (6") of coverage over the placed poly membrane. Mike Gentile of Charter Environmental Inc. was notified of test results and depth verification prior to departure

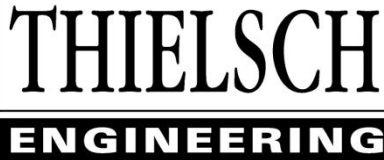
Report ID: 11-12-15 Earthwork Daily Report B.

Attachments: 11-12-15 Earthwork QC Report B & 11-12-15 Field Sketch.

Observed By: Jason Rapose
Field Technician

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information:
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Field Density Report A

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	11/12/2015

Density Gauge Information			
Make:	Troxler	Date of Calibration:	1/6/2015
Model No.:	3440	Source of Calibration:	QC Resources
Serial No.:	22318	Standard Counts:	D: 2210 M: 663
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

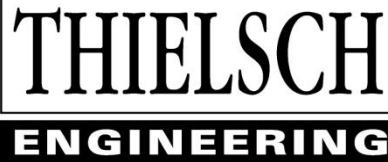
Material Information			
Description:	Dark Brown Silty Sand with gravel (SM)	TEI Laboratory Sample Number:	15-S-1110
Source:	On-Site Cove Sediment with 6% KLD Blend	Corrected Max Dry Unit Wt. (pcf):	92.6
Location:	Main Body Area	Corrected Opt Water Content (%):	22.9
Datum:	Bottom of Cap	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	Main Body, See Field Sketch	2 / 59.0	12	33.4	84.7	91.5%
2	Main Body, See Field Sketch	2 / 59.0	12	34.1	83.4	90.1%
3	Main Body, See Field Sketch	2 / 59.0	12	31.2	86.3	93.2%
4	Main Body, See Field Sketch	2 / 59.0	12	28.1	89.5	96.7%

Results Within Specification Limits: Results Outside Specification Limits:

Comments: 6% KLD Blend - 15-SC-1110 92.6pcf @ 22.9% moisture. Elevation is approximate.

Tested By: Jason Rapose	Reviewed By: Matthew Colman, EIT
Title: Field Technician Date: 11/12/2015	Title: Staff Engineer Date: 11/17/2015



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Field Density Report B

Project:	Textron Providence	TEI Project No.:	CTS 74-15-0087
Project Address:	333 Adelaide, Providence, RI 02903	Date of Service:	11/12/2015

Density Gauge Information			
Make:	Troxler	Date of Calibration:	1/6/2015
Model No.:	3440	Source of Calibration:	QC Resources
Serial No.:	22318	Standard Counts:	D: 2210 M: 663
Duration of Test:	15 Seconds	Moisture Offset (%):	N/A

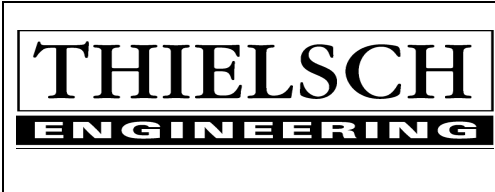
Material Information			
Description:	Light brown Poorly-graded Sand with Silt (SP-SM)	TEI Laboratory Sample Number:	15-S-668
Source:	Material S&S	Corrected Max Dry Unit Wt. (pcf):	102.3
Location:	Parcel C-1 Phase III Area	Corrected Opt Water Content (%):	13.1
Datum:	Finished Grade	Req. Minimum Compaction (%):	90.0

Density and Moisture of In-Place Soil via Nuclear Method (D6938)						
Test #	Test Location	Lift/Elevation	Probe Depth (in)	Water Content (%)	Dry Density (pcf)	Dry Density (% comp)
1	Upland area, See Field Sketch	65.0	6	5.1	99.9	97.7%
2	Upland area, See Field Sketch	65.0	6	6.1	98.0	95.8%
3	Upland area, See Field Sketch	65.0	6	8.4	99.2	97.0%
4	Upland area, See Field Sketch	65.0	6	9.5	97.7	95.5%
5	Upland area, See Field Sketch	65.0	6	7.3	98.6	96.4%
6	Upland area, See Field Sketch	65.0	6	8.3	99.3	97.1%

Results Within Specification Limits: Results Outside Specification Limits:

Comments: Elevation is approximate.

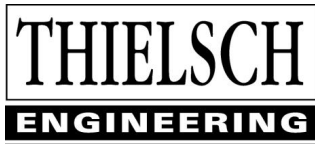
Tested By: Jason Rapose	Reviewed By: Matthew Colman, EIT
Title: Field Technician Date: 11/12/2015	Title: Staff Engineer Date: 11/17/2015



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Client Information
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Site Plan: Proposed Site Plan C-104
 Project No.: CTS 74-15-0087
 Report No. 11-12-15 FS
 Technician: Jason Rapose
 Date: November 12th, 2015



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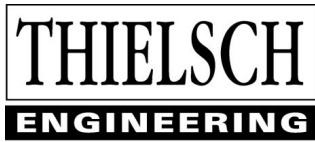
Client Information
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EARTHWORK FIELD REPORT A

Project:	Textron Providence	Service Date:	November 13 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	11-13-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S&S.
Material Classification:	Light brown poorly graded sand with silt (SP-SM)
Material Type:	Common borrow.
Earthwork Location:	Parcel C-1 in field sketch.
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's observed earthwork.
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts.
Method of Compaction:	Material was compacted using an HYPAC C-840D 11 ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of results prior to departure

Report ID: 11-13-15 Earthwork Daily Report.

Attachments: 11-13-15 Earthwork QC Report & 11-13-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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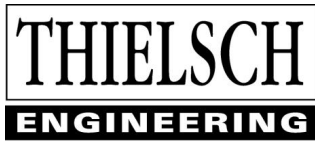
Client Information
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EARTHWORK FIELD REPORT B

Project:	Textron Providence	Service Date:	November 13 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	11-13-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	On-site 6% KLD processed.
Material Classification:	Dark brown silty sand with gravel (SM).
Material Type:	Cove sediment with 6% KLD blend.
Earthwork Location:	Upland soil cap 20-foot buffer around perimeter slope. (see in the field sketch)
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork inspection time.
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts (2 nd lift).
Method of Compaction:	Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-1110.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Three (3) compaction tests were performed. Test results were above 93% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results of the cove sediment area prior to departure.

Report ID: 11-13-15 Earthwork Daily Report B.

Attachments: 11-13-15 Earthwork QC Report B & 11-13-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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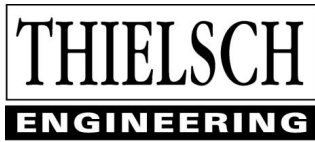
Client Information
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 14 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jin Tian Zhu
Report ID:	11-14-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3 C-104.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	On-site KLD processed blend.
Material Classification:	Dark brown silty sand with gravel (SM).
Material Type:	Cove sediment with 6% KLD blend.
Earthwork Location:	Main interior and 20 feet buffer around perimeter slope.
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork inspection time.
Lift Thickness:	Material was placed in approximate 12-inch compacted lift (3 rd lift).
Method of Compaction:	Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory sheepsfoot roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-1110.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 93% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results of the cove sediment area prior to departure.

Report ID: 11-14-15 Earthwork Daily Report.

Attachments: 11-14-15 Earthwork QC Report & 11-14-15 Field Sketch.


Observed By: Jin Tian Zhu
Field Engineer


Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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Site Plan: Proposed site plan C-104
Project No.: CTS 74-15-0087
Report No. 11-14-15 FS
Technician: Jin Tian Zhu
Date: November 14th, 2015



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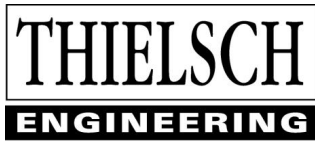
Client Information
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 16 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jin Tian Zhu
Report ID:	11-16-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3 C-104.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	On-site KLD processed blend.
Material Classification:	Dark brown silty sand with gravel (SM).
Material Type:	Cove sediment with 6% KLD blend.
Earthwork Location:	Main interior and 20 feet buffer around perimeter slope.
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork observations.
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts (4 th lift).
Method of Compaction:	Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory sheepsfoot roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-1110.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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Client Information
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pleofanti@charter.us

EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 93% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results of the cove sediment area prior to departure.

Report ID: 11-16-15 Earthwork Daily Report.

Attachments: 11-16-15 Earthwork QC Report & 11-16-15 Field Sketch.

Observed By: Jin Tian Zhu
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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<http://www.Thielsch.com>

Client Information
Charter Environmental, Inc.
500 Harrison Ave Suite 4R
Boston, MA 02118
pleofanti@charter.us

Site Plan: Proposed site plan C-104
Project No.: CTS 74-15-0087
Report No. 11-16-15 FS
Technician: Jin Tian Zhu
Date: November 16th, 2015



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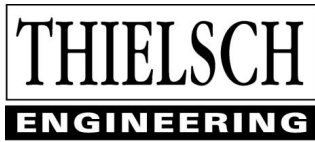
Client Information
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500 Harrison Ave Suite 4R
Boston, MA 02118
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 17 th , 2015
Project No.	CTS 74-15-0087	Technician:	Kyle Hogan
Report ID:	11-17-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3 C-104.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	On-site 6% KLD processed blend and Material S&S import.
Material Classification:	Dark brown silty sand with gravel (SM) and Light brown Poorly-graded Sand with Silt (SP-SM).
Material Type:	Cove sediment with 6% KLD blend and Sandy Fill (Common Borrow).
Earthwork Location:	Main interior field/buffer area and proposed Parcel C area.
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's earthwork observations.
Lift Thickness:	Material was placed in approximate 12-inch/6-inch compacted lifts (5 th lift for cap area).
Method of Compaction:	Material was compacted using an Ingersoll Rand (Pro-Pac series 70) vibratory sheepsfoot roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-1110 and 15-S-668.

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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EARTHWORK FIELD REPORT Cont.

Test Results: Nine (9) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of test results of the cove sediment and Parcel C areas prior to departure.

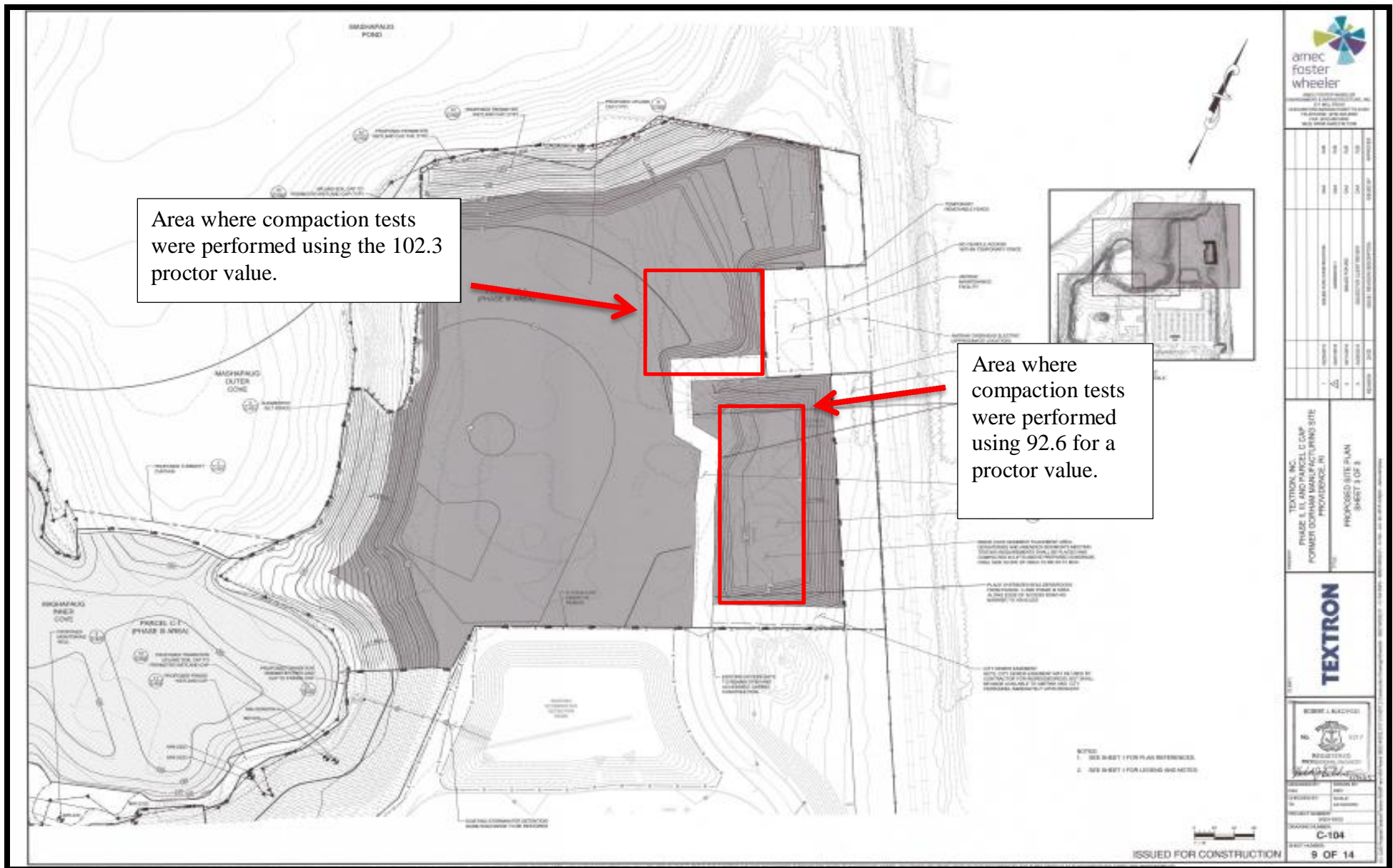
Report ID: 11-17-15 Earthwork Daily Report.

Attachments: 11-17-15 Earthwork QC Report A & B, and 11-17-15 Field Sketch.

Observed By: 
Kyle Hogan
Field Engineer

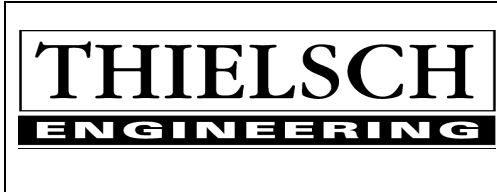
Reviewed By: 
Matthew Colman, EIT
Staff Engineer

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Area where compaction tests were performed using the 102.3 proctor value.

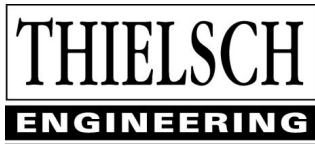
Area where compaction tests were performed using 92.6 for a proctor value.



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Proposed Site Plan Sheet 3 of 3
 Project No.: CTS 74-15-0087
 Report No. 11-17-15 FS
 Technician: Kyle Hogan
 Date: November 17th, 2015



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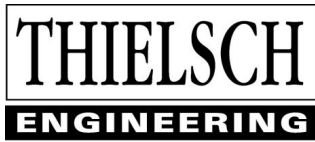
Client Information
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 18 th , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	11-18-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan sheet 3 of 3.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S&S.
Material Classification:	Light brown poorly graded sand with silt (SP-SM)
Material Type:	Common borrow.
Earthwork Location:	Proposed Parcel C Area (See field sketch).
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's observed earthwork.
Lift Thickness:	Material was placed in approximate 12-inch compacted lifts.
Method of Compaction:	Material was compacted using an HYPAC C-840D 11-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-668.

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EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of results prior to departure

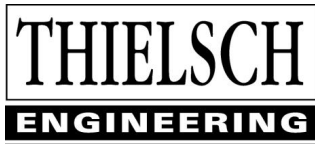
Report ID: 11-18-15 Earthwork Daily Report.

Attachments: 11-18-15 Earthwork QC Report & 11-18-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.



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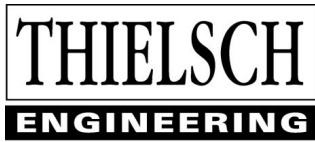
Client Information
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	November 19 th , 2015
Project No.	CTS 74-15-0087	Technician:	Jin Tian Zhu
Report ID:	11-19-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed Site Plan C-104, 6/24/2015.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S & S.
Material Classification:	Light brown poorly-graded Sand with Silt (SP-SM).
Material Type:	Sandy Fill (Common Borrow).
Earthwork Location:	Backfill proposed Parcel C1 area (Phase III) with Sandy fill material.
Subgrade Review:	Subgrade consisted of in-situ material overlain with geo-fabric.
Groundwater:	No groundwater was encountered during today's earthwork activities. .
Lift Thickness:	Material was placed in approximate 6-inch compacted lifts.
Method of Compaction:	Material was compacted using a BOMAG 10-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-SC-668.

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Client Information
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EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 90% of the proctor value, and in general accordance with project specifications.

Comments: Lift thickness for topsoil and common borrow material was observed to be 6-inches compacted prior to testing of each lift. Mike Gentile of Charter Environmental Inc. was notified of test results prior to departure.

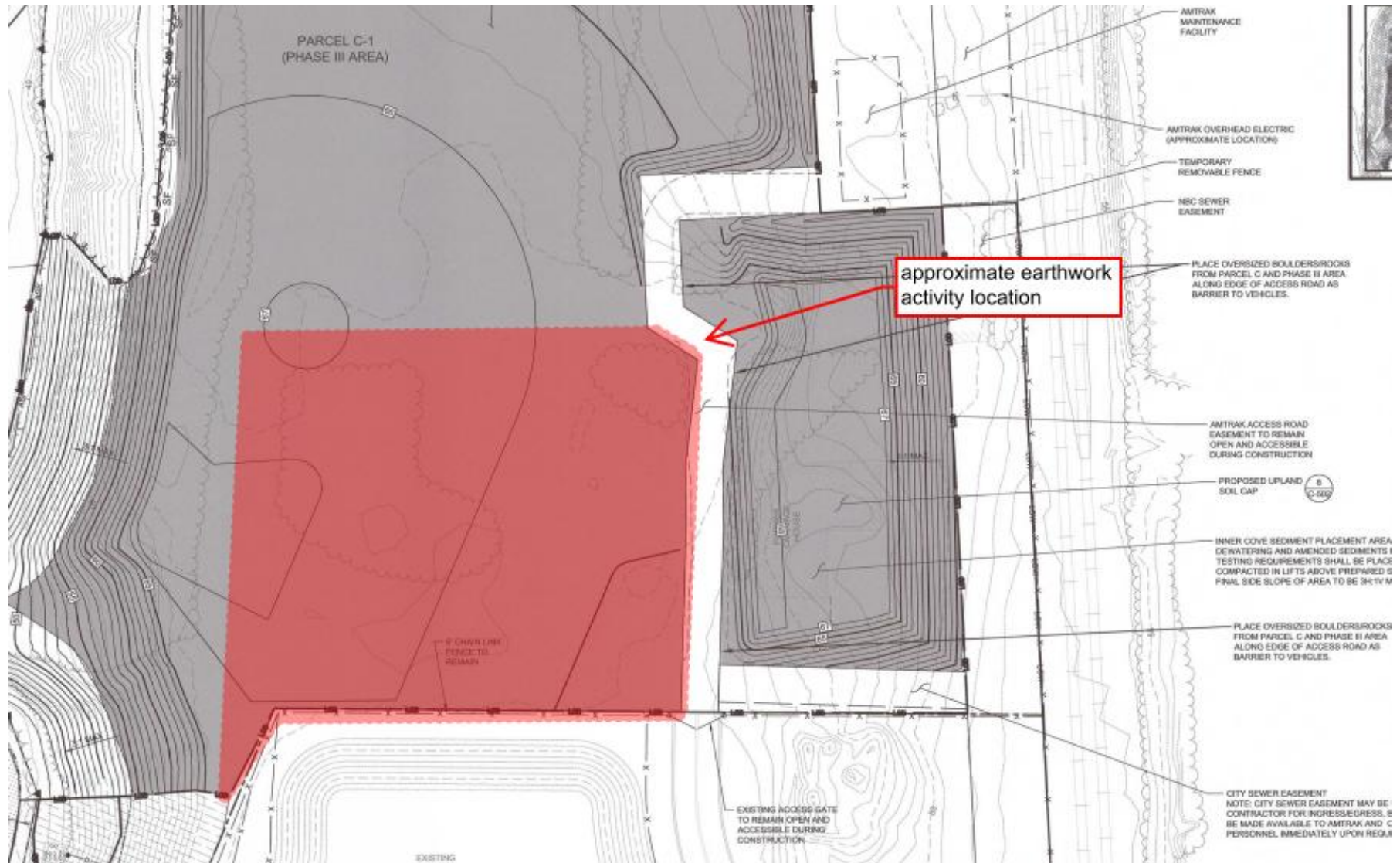
Report ID: 11-19-15 Earthwork Daily Report.

Attachments: 11-19-15 Earthwork QC Report and 11-19-15 Field Sketch.

Observed By: Jin Tian Zhu
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

Note: Thielsch Engineering personnel are present on-site to observe certain operations of the contractor and to record and report certain data related to those operations to our client. Neither the presence nor the activities of our personnel shall relieve any contractor from its obligation to meet contractual requirements. Further, the contractor retains sole responsibility for site safety and the methods, operations and sequences of construction. Field services were conducted in general accordance with associated AASHTO, ACI, ASTM, and DOT specifications.

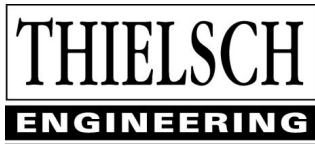


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Site Plan: Proposed Site Plan C-104
Project No.: CTS 74-15-0087
Report No. 11-19-15 FS
Technician: Jin Tian Zhu
Date: November 19th, 2015



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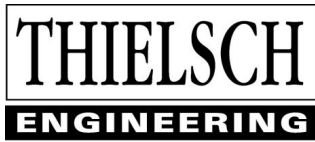
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EARTHWORK FIELD REPORT

Project:	Textron Providence	Service Date:	December 1 st , 2015
Project No.	CTS 74-15-0087	Technician:	Imtiaz Ahmed
Report ID:	12-01-15 Earthwork Daily Report		
Services Requested By:	Charter Environmental Inc.		
Site Contact:	Mike Gentile – Charter Environmental Inc.		
Site Contractor:	Charter Environmental Inc.		
Location:	333 Adelaide, Providence, RI 02903		
Scope of Work:	Perform earthwork observations, lift thickness observation and density testing.		

Reference Drawings:	Proposed site plan C-104, 6/24/2015.
Earthwork Contractor:	Charter Environmental Inc.
Material Source:	Material S & S.
Material Classification:	Light brown poorly graded sand with silt (SP-SM)
Material Type:	Sandy Fill (Common borrow).
Earthwork Location:	Interior field of the proposed cap area (See field sketch).
Subgrade Review:	Material was placed prior to TEI's arrival.
Groundwater:	No groundwater was encountered during today's observed earthwork.
Lift Thickness:	Material was placed in an approximate 12-inch compacted lift.
Method of Compaction:	Material was compacted using an HYPAC C-840D 11-ton vibratory roller.
Method of Density Testing:	In-place test method using nuclear gauge. (ASTM D6938)
Proctor Method:	Standard Proctor. (ASTM D698)
Laboratory Sample No.:	T.E.I. 15-S-668.

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EARTHWORK FIELD REPORT Cont.

Test Results: Five (5) compaction tests were performed. Test results were above 90% of the proctor value and in general accordance with project specifications.

Comments: Mike Gentile of Charter Environmental Inc. was notified of results prior to departure.

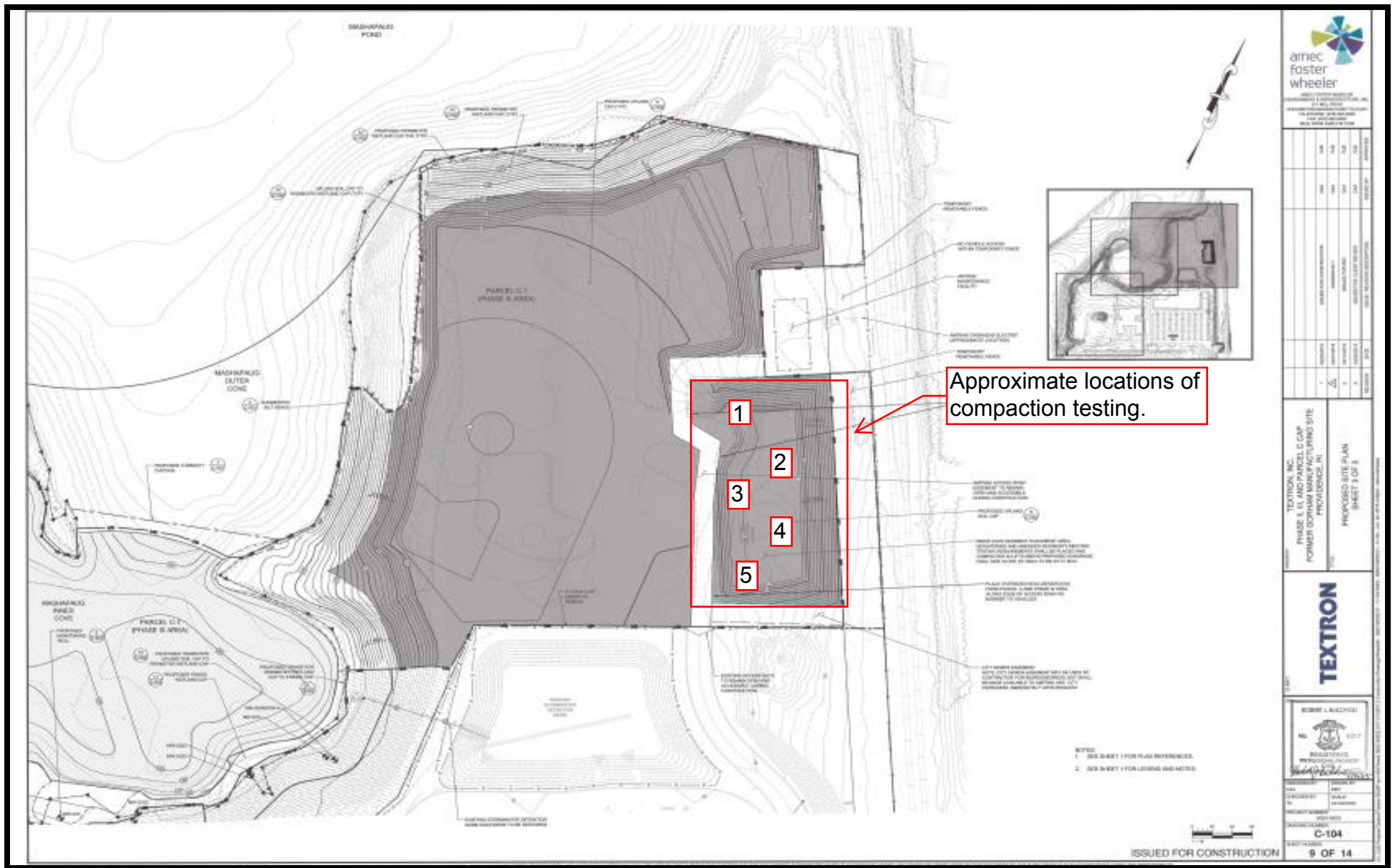
Report ID: 12-01-15 Earthwork Daily Report.

Attachments: 12-01-15 Earthwork QC Report & 12-01-15 Field Sketch.

Observed By: Imtiaz Ahmed
Field Engineer

Reviewed By: Matthew Colman, EIT
Staff Engineer

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Site Plan: Proposed Site Plan C-104
Project No.: CTS 74-15-0087
Report No. 12-01-15 FS
Technician: Imtiaz Ahmed
Date: December 1st, 2015