

R. W. Gillespie & Associates, Inc.

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LETTER OF TRANSMITTAL

City of Portland, Portland Int. Jetport
1001 Westbrook Street
Portland, Maine 04102

Date:	18 October 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

We are sending you attached In-Place Density Test Results.

Date(s) Performed:

September 13, 14, & 16, 2010

Test (s) Performed

In-Place Density Testing - Nuclear Method ASTM D6938

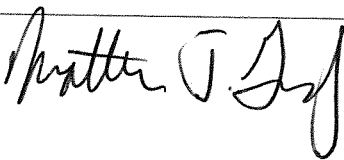
Meets Specification

Selected Tests Do Not Meet Specification - Noted with an *

Note: Materials descriptions and maximum laboratory dry density values were transmitted under separate cover and are referenced in the attached summaries by the material number.

Remarks:

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Signed: 

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL AIRPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 557-14

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly graded sand	111.0	11.4

Client: City of Portland
 Test Date: 9/13/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

Report Issue Date: **OCT 19 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Geothermal Trenches	FG -4'	104.7	3	94	11194
2	Geothermal Trenches	FG -4'	106.5	3	96	11194
3	Geothermal Trenches	FG -3'	105.5	4	95	11194
4	Geothermal Trenches	FG -3'	102.7	3	93	11194
5	Geothermal Trenches	FG -4'	104.9	4	95	11194
6	Geothermal Trenches	FG -4'	105.8	3	95	11194
7	Geothermal Trenches	FG -3'	103.8	3	94	11194
8	Geothermal Trenches	FG -3'	105.6	4	95	11194

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

FG = Finish Grade
 FF = Finish Floor
 FGB = Finish Grade of Base
 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall
 BOW = Bottom of Wall
 BOF = Bottom of Footing
 SG = Subgrade

Checked by: 

SHEET NOTES

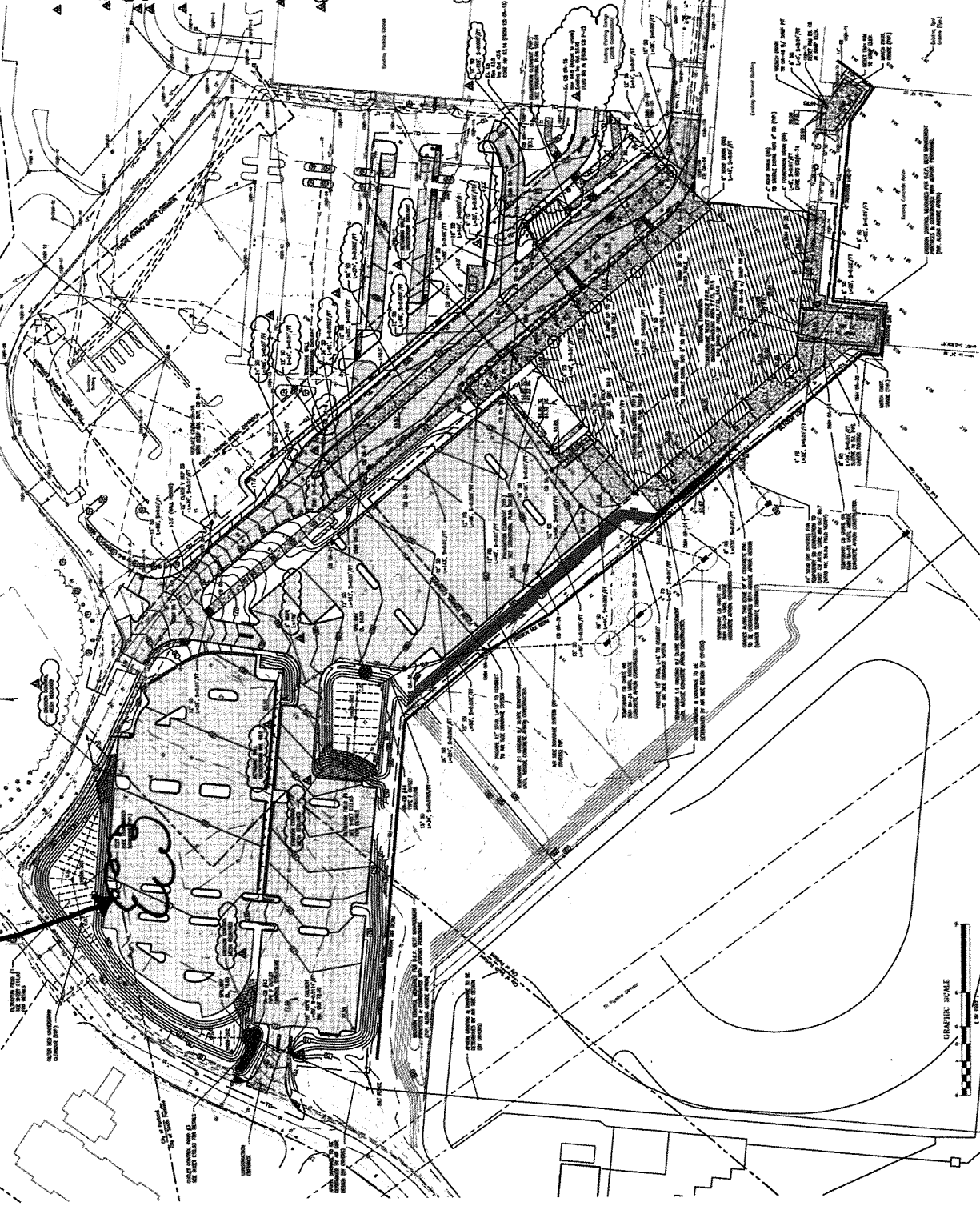
**PORTLAND INT'L AIRPORT
TERMINAL EXPANSION
557-14
M5K
9-13-2010**

**GEOTHERMAL
TRENCHES
BACK-FILLED**

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMIT	09/13/10	M5K	
2	ISSUED FOR PERMIT	09/13/10	M5K	
3	ISSUED FOR PERMIT	09/13/10	M5K	
4	ISSUED FOR PERMIT	09/13/10	M5K	
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97	ISSUED FOR PERMIT	09/13/10	M5K	
98	ISSUED FOR PERMIT	09/13/10	M5K	
99	ISSUED FOR PERMIT	09/13/10	M5K	
100	ISSUED FOR PERMIT	09/13/10	M5K	

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SEVENTH EDITION, 2003, WITH THE 2008 SUPPLEMENT, AND THE 2009 SUPPLEMENT, AND THE 2010 SUPPLEMENT, AS APPLICABLE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL ENVIRONMENTAL FEATURES.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING AND NEW RECORD DRAWINGS UP TO DATE.
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GRAPHIC SCALE
1" = 100'

Portland International
Jetport
1001 Westbank Street
Portland, Maine 04102

Gensler
WEST ASSOCIATES, INC.
1000 BROADWAY, SUITE 2000
NEW YORK, NY 10018
TEL: 212 512 2000
WWW.GENSLER.COM



C02.02

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT

PORTLAND, MAINE

RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 9/14/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly graded sand	111.0	11.4
11175	Type D Gravel	129.8	8.4


Report Issue Date: **OCT 19 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Geothermal Trench	FG -4'	102.8	4	93	11194
2	Geothermal Trench	FG -4'	103.7	3	94	11194
3	Geothermal Trench	FG -3'	102.4	3	92	11194
4	Geothermal Trench	FG -3'	105.3	3	95	11194
5	DMH OA-48 (SW Side)	FG -3.5'	104.9	3	95	11194
6	DMH OA-48 (NW Side)	FG -2'	107.7	6	97	11194
7	DMH OA-48 (NW Side)	FG	124.8	3	96	11175

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

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 FGSG = Finish Grade of Subgrade

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Checked by: 

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Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly graded sand	111.0	11.4

Client: City of Portland
 Test Date: 9/16/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

OCT 19 2010

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Geothermal Tank	FG -7'	103.7	4	94	11194
2	Geothermal Tank	FG -7'	104.1	3	94	11194
3	Geothermal Tank	FG -6'	105.8	3	95	11194
4	Geothermal Tank	FG -6'	106.1	3	96	11194

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

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Checked by: 