



Project Name PORTLAND, ME - NEW BANK BUILDING - CONSULTATION

Project Number 08-0395.2

Project Manager

Client PIZZAGALLI CONSTRUCTION COMPANY

Date 11/1/2010

PIZZAGALLI CONSTRUCTION COMPANY
BRIAN HOLMES
131 PRESUMPCOT STREET
PORTLAND, ME 04103

Phone Number 207-874-2323

Fax Number 207-874-2727

Results Being Reported

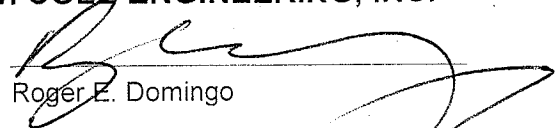
FIELD DENSITY REPORT - ASTM D6938

Copy To:

Notes: MAIL

S. W. COLE ENGINEERING, INC.

BY:


Roger E. Domingo

Report of Field Density

ASTM D6938

Project: PORTLAND, ME - NEW BANK BUILDING - CONSULTATION

Project Number: 08-0395.2

Client: PIZZAGALLI CONSTRUCTION COMPANY

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
1	10/25/2010	KBG	C (-3), 4	38.5	8	13256G	129.1	2.3	97.1	95
2	10/25/2010	KBG	B (+5), 4	39.5	12	13256G	127.9	3.6	96.2	95
3	10/25/2010	KBG	C (-7), 4	40.5	12	13256G	128.4	4.4	96.5	95
4	10/25/2010	KBG	C (-5), 4 (-10)	40.5	12	13248G	124.3	5.3	95.3	95
5	10/25/2010	KBG	D, 3	40.5	12	13256G	129.1	3.3	97.1	95
6	10/25/2010	KBG	D, 4 (-12)	41.5	12	13256G	128.0	2.3	96.2	95
7	10/25/2010	KBG	C, 4 (+10)	41.5	12	13248G	124.6	5.6	95.6	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

Elevation Notes:

Comments:


 Reviewed By

Report of Field Density

ASTM D6938

Project: PORTLAND, ME - NEW BANK BUILDING - CONSULTATION

Project Number: 08-0395.2

Client: PIZZAGALLI CONSTRUCTION COMPANY

Field Density Test Results

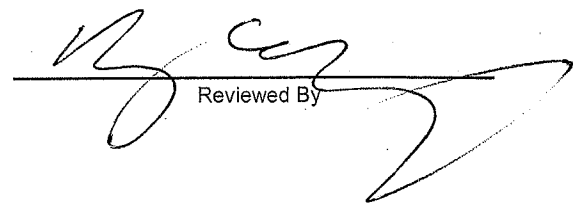
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
8	10/26/2010	KBG	D, 2	41.5	12	13256G	126.7	4.7	95.3	95
9	10/26/2010	KBG	D, 1 (+5)	40.5	12	13256G	127.3	3.6	95.7	95
10	10/26/2010	KBG	D, 3.4	42.5	12	13256G	129.8	3.7	97.6	95
11	10/26/2010	KBG	D, 1.5 (-5)	41.5	12	13256G	127.3	4.0	95.7	95
12	10/26/2010	KBG	D, 1 (+7)	42.5	12	13256G	126.5	5.1	95.1	95
13	10/26/2010	KBG	D (-10), 4 (-10)	42.5	12	13248G	125.3	4.8	96.1	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

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Report of Field Density

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Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
14	10/28/2010	KBG	B (-5), 2.7	40.5	12	13248G	124.5	6.5	95.5	95
15	10/28/2010	KBG	A, 3.3	40.5	12	13256G	127.1	4.8	95.6	95
16	10/28/2010	KBG	A, 3.4	40.5	12	13256G	131.7	4.8	99.0	95
17	10/28/2010	KBG	A.8, 4	41.5	12	13256G	131.5	4.1	98.9	95
18	10/28/2010	KBG	A, 3	41.5	12	13256G	131.4	4.0	98.8	95
19	10/28/2010	KBG	A, 3	41.5	12	13248G	125.1	5.7	95.9	95

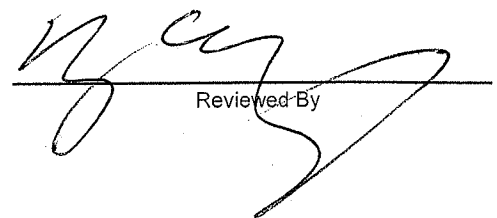
Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

Elevation Notes:

Comments:

7:30AM-9AM & 1:30PM-4:30PM


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Report of Field Density

ASTM D6938

Project: PORTLAND, ME - NEW BANK BUILDING - CONSULTATION

Project Number: 08-0395.2

Client: PIZZAGALLI CONSTRUCTION COMPANY

Field Density Test Results

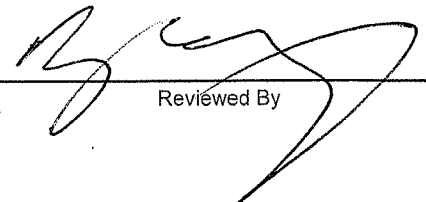
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
20	10/28/2010	EMW	A, 3.4	38	12	13256G	129.1	5.6	97.1	95
21	10/28/2010	EMW	A (+5), 2.7	38	12	13256G	129.2	5.4	97.1	95
22	10/28/2010	EMW	A, 3.3	39.5	12	13248G	125.2	6.4	96.0	95
23	10/28/2010	EMW	A (+5), 2.7	39.5	12	13248G	124.0	7.4	95.1	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

Elevation Notes:

 Comments:
 9AM-1PM



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Report of Field Density

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Project Number: 08-0395.2

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Field Density Test Results

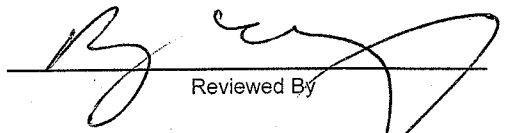
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
24	10/29/2010	KBG	B, 3.4 (+5)	43.0	12	13248G	127.2	6.3	97.5	95
25	10/29/2010	KBG	A (-10), 3.4 (+5)	43.0	12	13248G	127.6	5.4	97.9	95
26	10/29/2010	KBG	A, 4	43.0	12	13256G	130.2	4.3	97.9	95
27	10/29/2010	KBG	A, 2.7	43.0	12	13256G	131.1	4.3	98.6	95
28	10/29/2010	KBG	B, 4	43.0	12	13256G	129.9	4.2	97.7	95
29	10/29/2010	KBG	A, 3.3	43.0	12	13256G	127.7	4.4	96.0	95
30	10/29/2010	KBG	A, 2.1	43.0	12	13256G	131.5	4.7	98.9	95
31	10/29/2010	KBG	B (-5), 4 (+9)	43.0	12	13248G	126.5	7.7	97.0	95
32	10/29/2010	KBG	B (-5), 4 (+5)	43.0	12	13256G	128.8	4.4	96.8	95
33	10/29/2010	KBG	B (+10), 2.7	43.0	12	13248G	124.4	7.2	95.4	95
34	10/29/2010	KBG	C, 3	43.0	12	13248G	126.4	7.1	96.9	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

Elevation Notes:

Comments:



 Reviewed By



Report of Field Density

ASTM D6938

Project: PORTLAND, ME - NEW BANK BUILDING - MATERIALS TESTING

Project Number: 08-0395.1

Client: PIZZAGALLI CONSTRUCTION COMPANY

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
1	11/9/2010	KBG	C(+5), 1(+2)	44	12	13256G	127.6	3.8	95.9	95
2	11/9/2010	KBG	A(+8), 4(-3)	44	12	13256G	129.6	4.0	97.4	95
3	11/9/2010	KBG	D(-3), 2.7	44	12	13256G	127.2	3.5	95.6	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

Elevation Notes:

Comments:


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Report of Field Density

ASTM D6938

Project: PORTLAND, ME - NEW BANK BUILDING - MATERIALS TESTING

Project Number: 08-0395.1

Client: PIZZAGALLI CONSTRUCTION COMPANY

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
4	11/12/2010	JJR	A/2.8	43.4	12	13256G	128.0	3.6	96.2	95
5	11/12/2010	JJR	A/4	45	12	13248G	127.3	6.1	97.6	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	
13256G	10/26/2010	ONSITE/FROM GORHAM S&G PHINEY PIT	STRUCTURAL FILL	ASTM D-1557 Modified C	133.0	7.3	

Elevation Notes:

Comments:



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Report of Field Density

ASTM D6938

Project: PORTLAND, ME - NEW BANK BUILDING - MATERIALS TESTING

Project Number: 08-0395.1

Client: PIZZAGALLI CONSTRUCTION COMPANY

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
6	11/16/2010	KBG	A, 3	44.0	10	13248G	125.4	6.5	96.2	95
7	11/16/2010	KBG	A.8, 3.4	45.0	12	13248G	124.1	6.1	95.2	95
8	11/16/2010	KBG	A', 2.7 (+3')	44.0	12	13247G	124.1	4.2	95.2	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13247G	10/22/2010	G S&G Winslow Pit	Crushed Gravel	ASTM D-1557 Modified C	130.4	6.5	
13248G	10/22/2010	Existing Material	Granular Borrow	ASTM D-1557 Modified B	130.4	6.4	

Elevation Notes:

Comments:



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Report of Field Density

ASTM D6938

 Project: **PORTLAND, ME - NEW BANK BUILDING - MATERIALS TESTING**

 Project Number: **08-0395.1**

 Client: **PIZZAGALLI CONSTRUCTION COMPANY**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
9	11/18/2010	RKL	D/4, 48' W	43.4'	12	13247G	126.2	4.1	96.8	95
10	11/18/2010	RKL	D/4, 15' W	43.4'	12	13247G	124.5	5.0	95.5	95
11	11/18/2010	RKL	D/4, 5' N & 34' W	41.90'	12	13247G	124.0	5.1	95.1	95
12	11/18/2010	RKL	D/4, 6' N & 10' W	41.90'	12	13247G	124.7	4.8	95.6	95
13	11/18/2010	RKL	D/4, 6' N & 12' W	43.60'	12	13247G	124.8	4.9	95.7	95
14	11/18/2010	RKL	D/4, 5' N & 40' W	43.20'	12	13247G	124.7	4.8	95.6	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13247G	10/22/2010	G S&G Winslow Pit	Crushed Gravel	ASTM D-1557 Modified C	130.4	6.5	

Elevation Notes:
Comments:


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Report of Field Density

ASTM D6938

 Project: **PORTLAND, ME - NEW BANK BUILDING - MATERIALS TESTING**

 Project Number: **08-0395.1**

 Client: **PIZZAGALLI CONSTRUCTION COMPANY**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
15	11/19/2010	KBG	S ENTRANCE 20' FROM EXIST PAVEMENT (PARKING LOT)	TOS	12	13247G	127.3	5.1	97.6	95
16	11/19/2010	KBG	SW CORNER FIRST STALL (PARKING LOT)	TOS	12	13247G	125.6	9.7	96.3	95
17	11/19/2010	KBG	MIDDLE OF W END PARKING B FROM RAMP (PARKING LOT)	TOS	12	13247G	125.4	4.7	96.2	95
18	11/19/2010	KBG	4 (+3), C (-8) (SIDEWALK)	TOS	12	13247G	128.4	3.5	98.5	95
19	11/19/2010	KBG	4 (+20), D (+9) (RAMP INSIDE)	43	12	13247G	124.4	3.7	95.4	95
20	11/19/2010	KBG	4 (+20), D (+12) (RAMP OUTSIDE)	43	12	13247G	126.9	4.6	97.3	95
21	11/19/2010	KBG	4 (+15), A (PARKING LOT)	TOS	12	13247G	130.3	3.9	99.9	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13247G	10/22/2010	G S&G Winslow Pit	Crushed Gravel	ASTM D-1557 Modified C	130.4	6.5	

Elevation Notes:

TOS - TOP OF SUBBASE

Comments:


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Report of Field Density

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Project Number: 08-0395.1

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Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
22	11/22/2010	KBG	D(-3), 3 (-3)	46.0	12	13247G	124.8	3.7	95.7	95
23	11/22/2010	KBG	B(-5), 1 (+3)	46.0	12	13247G	124.0	3.9	95.1	95
24	11/22/2010	KBG	A'(-30'), 4 PARKING LOT	TOS	12	13247G	124.9	3.5	95.8	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
13247G	10/22/2010	G S&G Winslow Pit	Crushed Gravel	ASTM D-1557 Modified C	130.4	6.5	

Elevation Notes:

TOS - TOP OF SUBBASE

Comments:

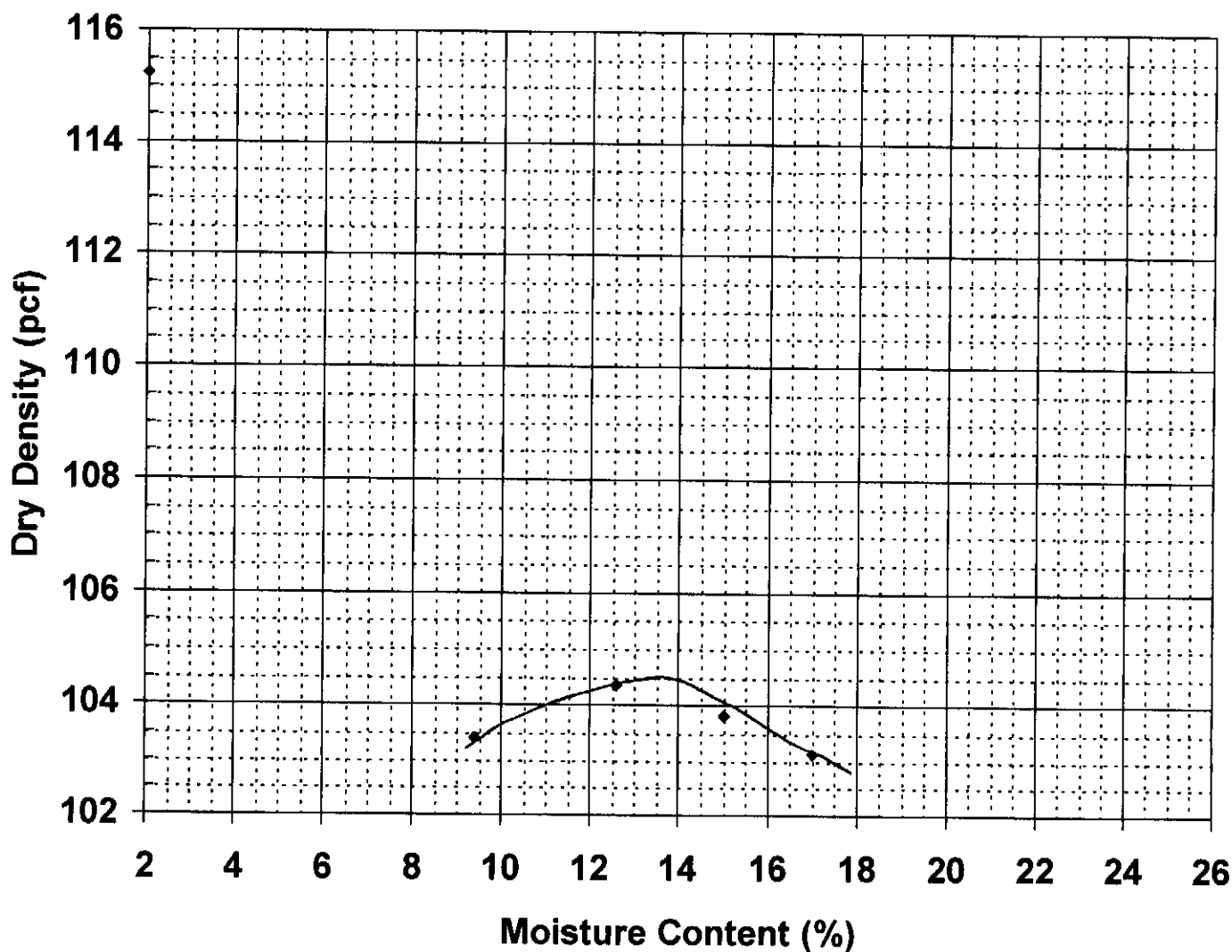

Reviewed By

Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure A

Project Name	PORTLAND, ME - NEW BANK BUILDING - CONSULTATION	Project Number	08-0395.2
Client	PIZZAGALLI CONSTRUCTION COMPANY	Lab ID	13263G
Material Type	GRANULAR BORROW	Date Received	10/28/2010
Material Source	MIGHTY STREET PIT	Date Completed	11/4/2010
		Tested By	JUSTIN BISSON

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	104.5	<u>Corrected Dry Density (pcf)</u>	<u>104.5</u>
Optimum Moisture Content (%)	13.5	<u>Corrected Moisture Content (%)</u>	<u>13.5</u>
Percent Oversized	0.0%		

Comments

Roger E. Domingo
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