

R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
200 Int'l Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

Date:	10 Sept 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

City of Portland, Portland Int. Jetport

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1001 Westbrook Street

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Portland, Maine 04102

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

Date(s) Performed:	Test (s) Performed
August 23-27, 2010	In-Place Density Testing - Nuclear Method ASTM D6938
	<input type="radio"/> Meets Specification <input checked="" type="radio"/> Selected Tests Do Not Meet Specification - Noted with an *
<p>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.</p>	

Remarks:

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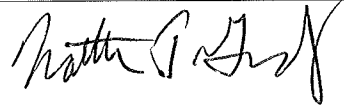


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Copy To: Roy Williams: rsw@portlandmaine.gov  
 Jim Stanislaski: jim\_stanislaski@gensler.com  
 Cliff Takara: clifford\_takara@gensler.com  
 Lacey Fogg: Lacey.Fogg@amec.com  
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 rdixon@tcco.com  
 Geoff Mitchell: gemitchell@tcco.com

Signed: 

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: August 23, 2010  
 Technician: Erik Cohenour  
 Gauge Model/Serial Number: L497

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly graded sand	111.0	11
11175	Type D Gravel	129.8	8

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Electrical room	Subgrade	111.7	3	100+	11194
2	Electrical room	Subgrade	104.7	3	94*	11194
3	Retest of #2	Subgrade	105.2	4	95	11194
4	Geothermal trenches	Lift 2	111.7	1	100+	11194
5	Geothermal trenches	Lift 1	113.5	5	100+	11194
6	Geothermal trenches	Lift 2	105.6	3	95	11194
7	Stairway	Lift 1	119.6	6	92*	11175
8	Retest of # 7	Lift 1	125.2	8	97	11175
9	Pad for tank	Lift 1	124.8	2	96	11175
10	Pad for tank	Lift 2	124.1	3	96	11175
11	Pad for tank	Lift 3	124.2	3	96	11175
12	Geothermal trenches	Final Lift	113.0	4	100+	11194

Remarks: \* Tests did not meet the minimum requirement of 95% of Maximum Density.

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  
 BOF = Bottom of Footing

Checked by: 

SHEET NOTES

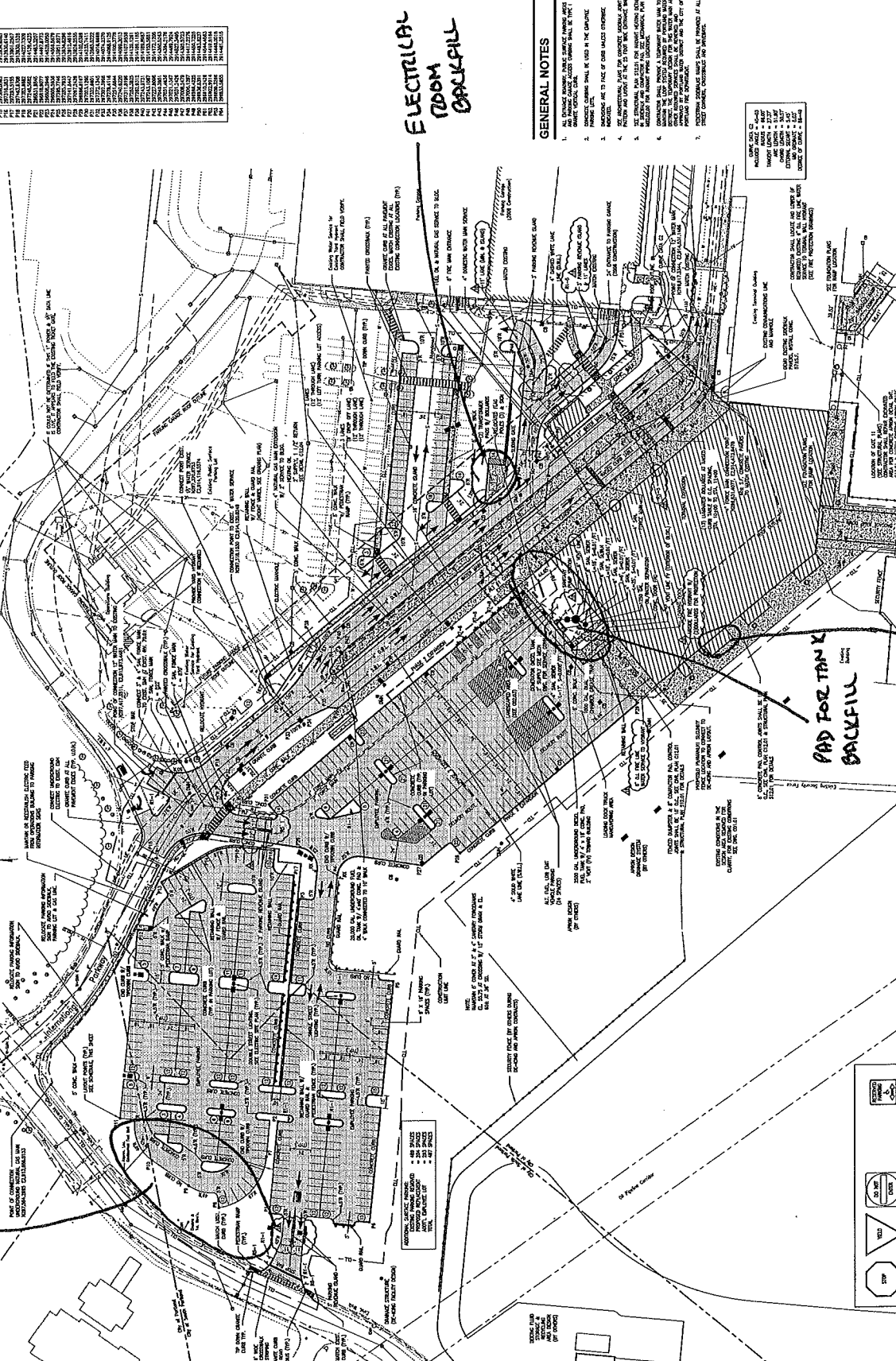
Level, Contour, Schedule

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Special Structure Schedule

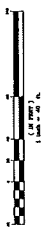
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1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODES AND ALL APPLICABLE LOCAL ORDINANCES.



- GENERAL NOTES**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODES AND ALL APPLICABLE LOCAL ORDINANCES.
  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 EXISTING UTILITIES AND STRUCTURES AT ALL TIMES.
  4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION.
  5. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE AND SOUND CONDITION AT ALL TIMES.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
  7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND STRUCTURES AT ALL TIMES.

Project: Terminal Enhancement - Portland International Jetport  
 Project No.: 557-14  
 Date: 9/23/10  
 Technologist: ECC



STAIRWAY  
BACKFILL

PAD FOR TANK  
BACKFILL

ELECTRICAL  
ROOM  
BACKFILL

GEOTEXTILE  
TRENCH  
BACKFILL



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

PORTLAND, MAINE  
 RWG&A PROJECT NO. 557-14

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4
11194	Poorly Graded Sand	111.0	11.4
11152	Type A Gravel	131.8	8.0

Client: City of Portland  
 Test Date: 8/24/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date:

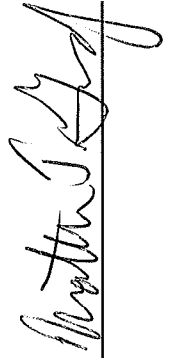
Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Geothermal trench	FG -1'	108.3	4	98	11194
2	Geothermal trench	FG -1'	105.0	4	95	11194
3	Above 12,000 Gal. Fuel Tank	FG	129.6	3	98	11152
4	8" Drain Line - Y5/XM.5+5'	FG -6'	110.7	5	100	11194
5	8" Drain Line - Y5/XM.5+5'	FG -4.5'	127.1	7	98	11175
6	XM+5'/Y6	TOW -4'	122.7	3	95	11175
7	8" Drain Line - Y6/XM.5	TOW -5.5'	108.5	5	98	11194
8	8" Drain Line - Y5/XM.5+5'	FG -3'	126.2	3	97	11175
9	8" Drain Line - Y5/XM.5+5'	FG -1.5'	127.5	4	98	11175
10	SW Side of XM.5/Y5	TOW -3.5'	125.0	3	96	11175
11	8" Drain Line - Y6/XM.5	TOW -4'	126.5	3	98	11175
12	XM+5'/Y5	TOW -3'	129.3	4	100	11175
13	XM.5/Y6	TOW -4'	128.9	4	99	11175
14	SW Side XM.5/Y5	FG	126.0	4	97	11175
15	SW Side XM/Y6	TOW -5.5'	124.8	3	96	11175
16	SW Side XM/Y5	TOW -4'	124.0	3	96	11175

Remarks:

- 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:



R. W. Gillespie Associates, Inc.  
 Corporate Office 86 Industrial Park Road, Ste. 4, Saco, ME 04072  
 Branch Office 200 International Drive, Ste. 170, Portsmouth, NH 03801



# GEO THERMAL LINES BACK FILLED

## SHEET NOTES

**Legend**

Symbol	Description
[Symbol]	EXISTING CONCRETE
[Symbol]	EXISTING MASONRY
[Symbol]	EXISTING METAL DECK
[Symbol]	EXISTING WOOD DECK
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Legend

**Legend**

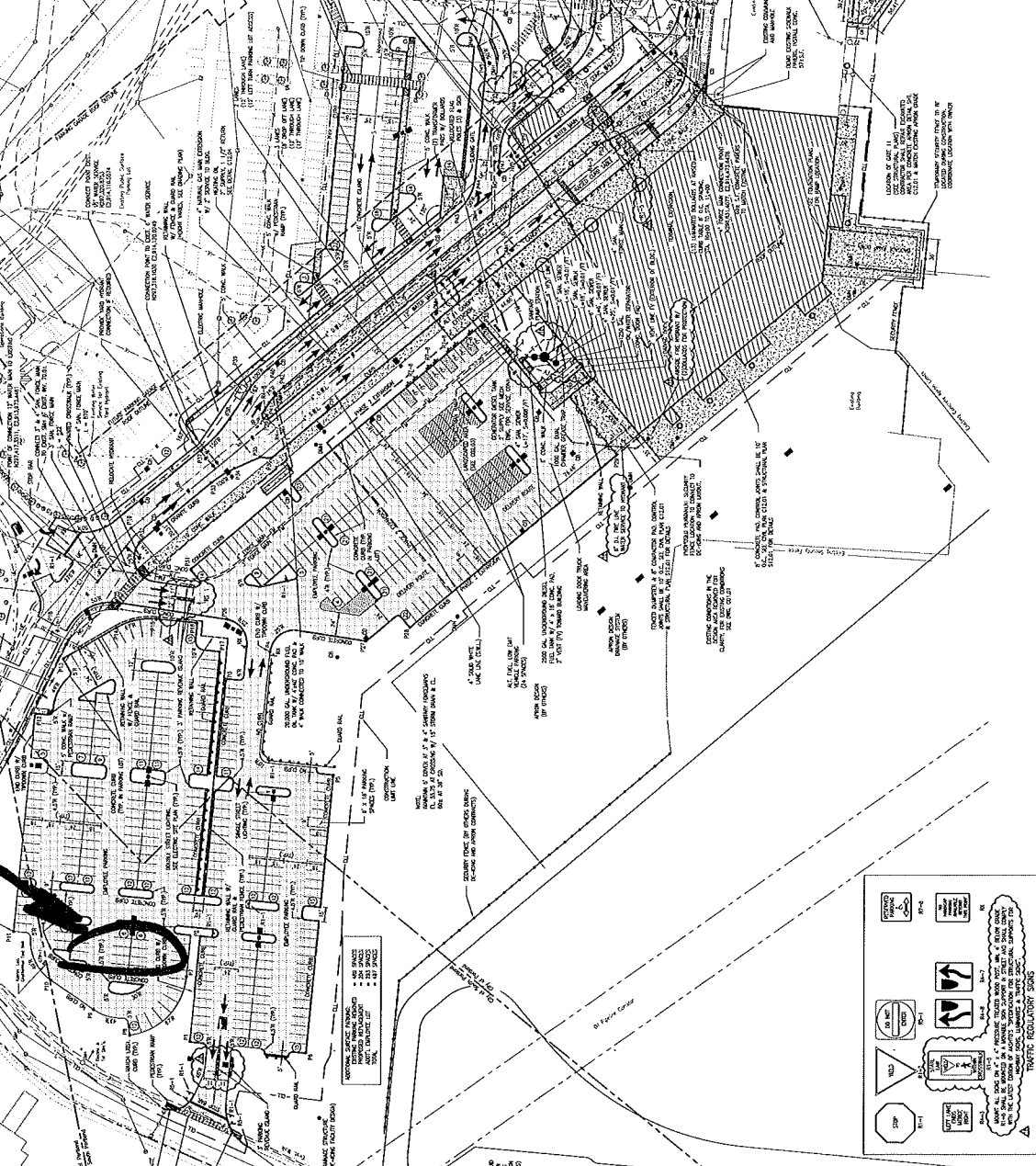
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Legend



PORTLAND INTL JETPORT  
TERMINAL EXPANSION  
557-14  
8/24/2010  
MSK

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

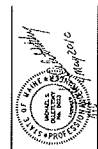
Gensler

meaf ASSOCIATES, INC.  
ARCHITECTS

2011 Gensler, Inc.  
1000 Broadway, Suite 2000  
New York, NY 10018  
Phone: 212.512.2000  
Fax: 212.512.2001

**GENERAL NOTES**

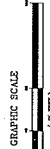
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MEAF ASSOCIATES, INC.  
1000 BROADWAY, SUITE 2000  
NEW YORK, NY 10018  
PHONE: 212.512.2000  
FAX: 212.512.2001

C02.01

2/2



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

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4

Client: City of Portland  
 Test Date: 8/25/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	NE of XM/Y*	TOF	125.5	7	97	11175
2	XM+2/Y6	TOW -4'	125.2	6	97	11175
3	XM.5/Y7.5	TOW -5'	123.3	4	95	11175
4	NW Side Y8/XL	TOW -5'	126.1	5	97	11175

Remarks:

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  
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Checked by:



IPD

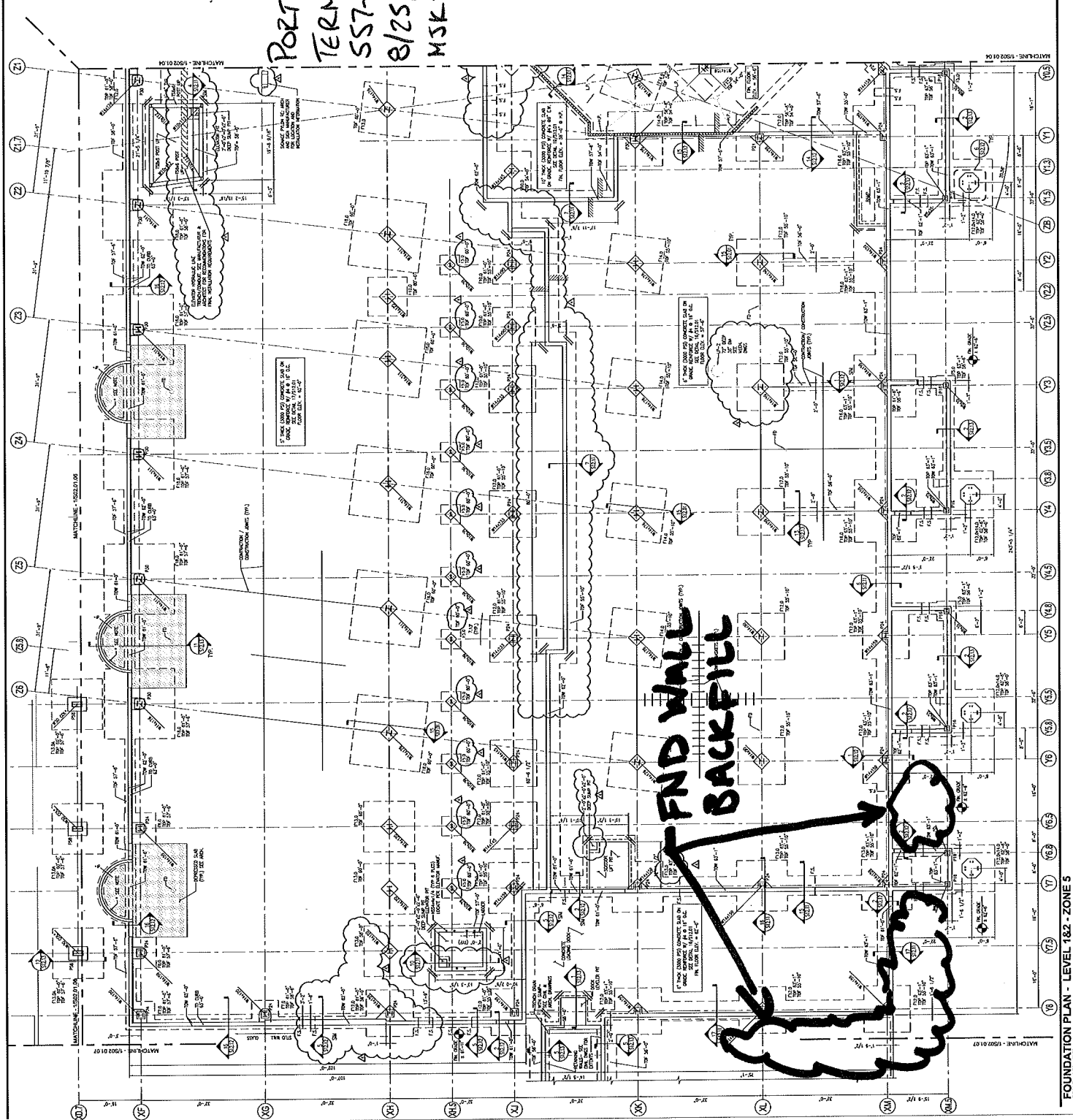
Portland International  
Jetport  
1001 Westbank Street  
Portland, Maine 04102

Gensler

meas ASSOCIATES, INC.  
1000 State Street  
Portland, ME 04102  
Phone: 603.733.8100

PORTLAND INT'L AIRPORT  
TERMINAL EXPANSION  
SS7-14  
8/25/2010  
MSK

**SHEET NOTES**  
1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.  
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.  
4. ALL DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE NOTED.  
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FOUNDATION PLAN - LEVEL 1&2 - ZONE 5  
SCALE: 1/8" = 1'-0"  
S02.01.05

FOUNDATION PLAN - LEVEL 1&2 - ZONE 5  
SCALE: 1/8" = 1'-0"



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
11175	Type D Gravel	129.8	8.4

Client: City of Portland  
 Test Date: 8/26/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date:

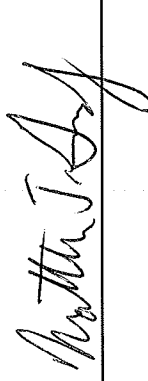
Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	XM+5'/Y7.5	TOW -4.5'	124.4	4	96	11175
2	XL/NW Side of Y8	TOW -3'	123.3	4	95	11175
3	SE of XM/Y8	TOW -3'	123.1	4	95	11175
4	XM+5'/Y7.5	TOW -2'	124.3	4	96	11175
5	XM.5'/Y6.5	TOW -2'	123.8	6	96	11175

Remarks:

- 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:



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: 8/27/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

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

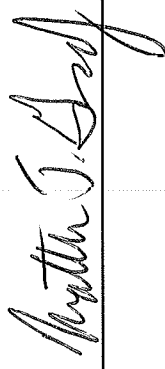
Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	North Side of Grease Trap	50.00	105.3	5	95	11194
2	North Side of Pump Station	51.00	109.8	6	99	11194
3	SE Side of Valve Pit	53.00	107.0	6	96	11194
4	XL/Y7	TOF	125.4	3	97	11175

Remarks:

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: 

SUMMARY OF IN-PLACE DENSITIES - BITUMINOUS PAVING  
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT  
 PORTLAND, MAINE  
 RWG&A PROJECT NO. 557-14

Client: City of Portland

Test Date: August 27, 2010

Technician: MJK

Gauge Model/Serial Number: PQI

Report Issue Date:

Test No.	Location	Elevation	Bulk Density	Percent Compaction (%)
1	Parking Lot (See attached sketch)	FGBi	144.0	92
2	Parking Lot (See attached sketch)	FGBi	144.0	92
3	Parking Lot (See attached sketch)	FGBi	144.1	92
4	Parking Lot (See attached sketch)	FGBi	145.2	93
5	Parking Lot (See attached sketch)	FGBi	145.9	93
6	Parking Lot (See attached sketch)	FGBi	145.8	93
7	Parking Lot (See attached sketch)	FGBi	146.5	94
8	Parking Lot (See attached sketch)	FGBi	145.2	93
9	Parking Lot (See attached sketch)	FGBi	146.0	93
10	Parking Lot (See attached sketch)	FGBi	145.6	93
11	Parking Lot (See attached sketch)	FGBi	146.1	93
12	Parking Lot (See attached sketch)	FGBi	144.8	92

Remarks: TMD value for 19 mm provided by Pike Industries=156.7 PCF

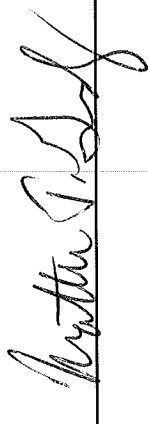
FG = Finish Grade

FGB = Finish Grade of Base

FGSB = Finish Grade of Subbase

FGSG = Finish Grade of Subgrade

FGBi = Finish Grade of Binder

Checked By: 

IPD

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

**oest ASSOCIATES, INC.**  
ARCHITECTS ENGINEERS PLANNERS CONSULTANTS INCORPORATED  
1000 BOSTON STREET  
SUITE 100  
PORTLAND, MAINE 04102  
PHONE: 207.761.8800  
FAX: 207.761.8807

PORTLAND INT'L JETPORT  
TERMINAL EXPANSION  
557-14  
8/27/2010  
MJK

**SHEET NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL JETPORT MASTER PLAN AND ALL APPLICABLE REGULATIONS AND PERMITS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE PORTLAND INTERNATIONAL JETPORT AUTHORITY AND ALL APPLICABLE AGENCIES.

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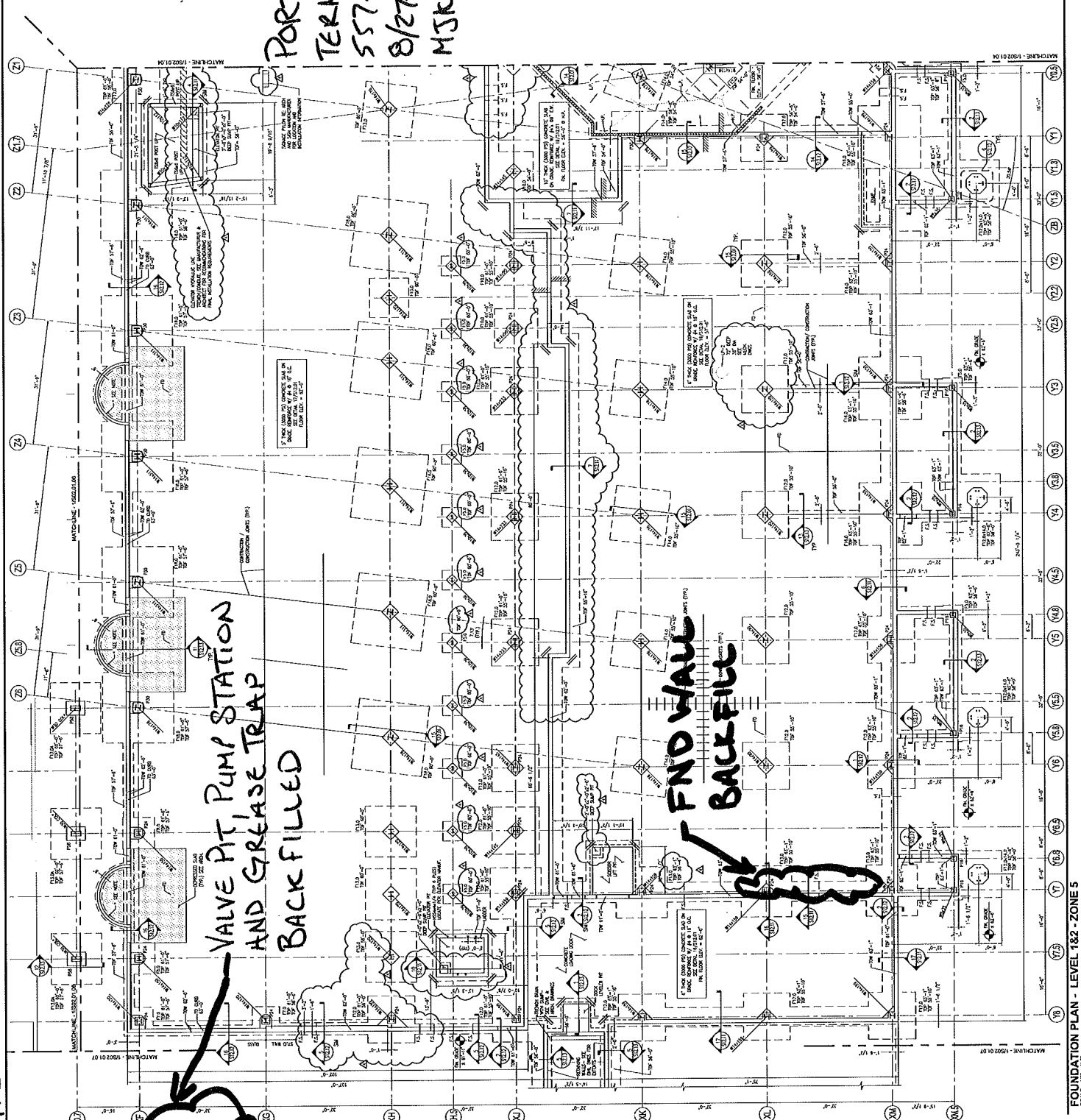
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**GENERAL NOTES**

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FOUNDATION PLAN - LEVEL 1&2 - ZONE 5  
SCALE: 1/8" = 1'-0"  
S02.01.05

1/3

FOUNDATION PLAN - LEVEL 1&2 - ZONE 5  
SCALE: 1/8" = 1'-0"

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: August 27, 2010  
 Technician: Rodney Collard  
 Gauge Model/Serial Number: L500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11304	Poorly graded sand	112.6	13
11175	Type D Gravel	129.8	8

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	10' North of Pump Station	TOW -3'	109.5	6	97	11304
2	3' West of Pump Station	TOW -3'	113.1	10	100+	11304
3	3' South of Grease Trap	TOW -7'	112.4	7	100	11304
4	Foundation Backfill (See attached sketch)	TOW -6'	123.2	6	95	11175
5	Foundation Backfill (See attached sketch)	TOW -6'	124.1	5	96	11175
6	Foundation Backfill (See attached sketch)	TOW -6'	125.5	5	97	11175
7	4' South of Grease Trap	TOW -6'	107.9	7	96	11304
8	8' North of Pump Station	TOW -2'	112.4	8	100	11304
9	4' Northwest of Pump Station	TOW -2'	111.6	10	99	11304
10	3' Southeast of Grease Trap	TOW -5'	109.1	7	97	11304
11	Foundation Backfill (See attached sketch)	TOW -5'	123.7	4	95	11175
12	Foundation Backfill (See attached sketch)	TOW -5'	124.2	4	96	11175
13	Foundation Backfill (See attached sketch)	TOW -6'	130.5	5	100+	11175
14	Foundation Backfill (See attached sketch)	TOW -4'	124.2	4	96	11175
15	Foundation Backfill (See attached sketch)	TOW -5'	127.1	3	98	11175

Remarks:

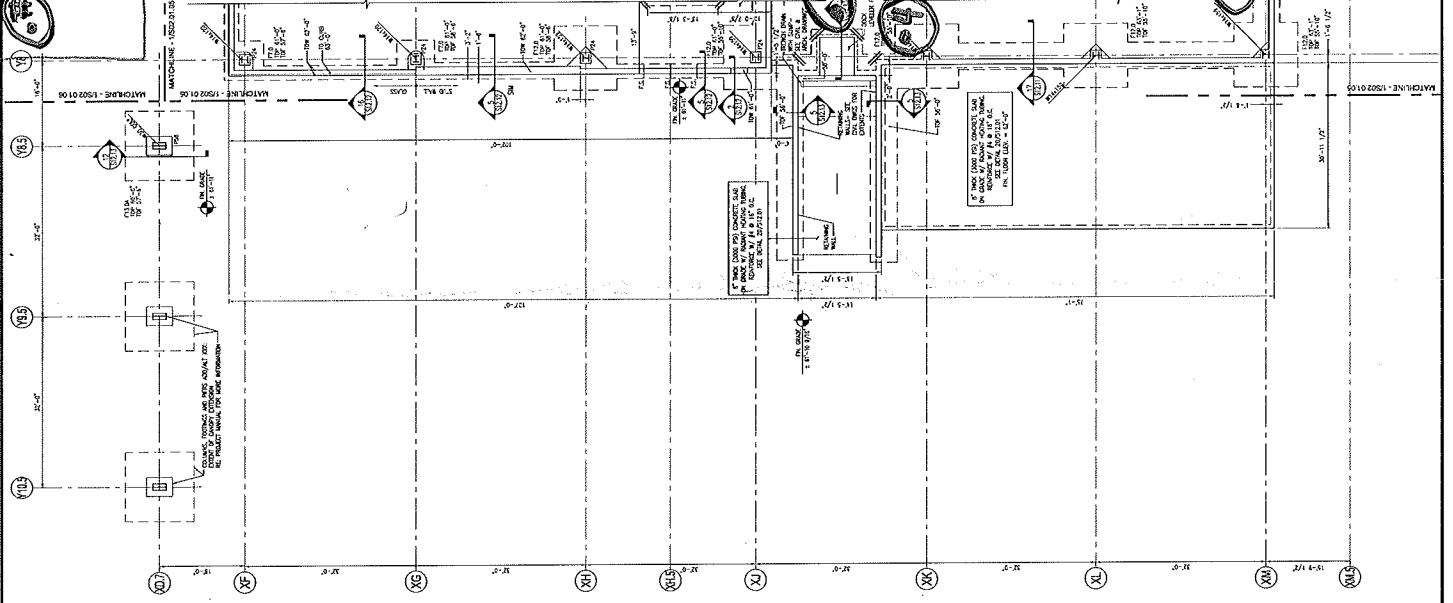
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TOW = Top of Foundation Wall  
 BOF = Bottom of Footing

Checked by: 

PORTLAND JETPORT  
 557-14 8/27/10  
 RODNEY COLLARD

IN PLACE  
 DENSITY  
 TEST LOCATION



- SHEET NOTES**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL RESIDENTIAL CODE (IRC).
  2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL AND ELECTRICAL PLUMBING CODE (IMC/IPC/UPC).
  3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL FIRE AND SAFETY CODE (IFSC).
  4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
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**Portland International Jetport**  
 1001 Westbrook Street  
 Portland, Maine 04102

**Gensler**  
**nest ASSOCIATES, INC.**  
 ARCHITECTS  
 ENGINEERS  
 PLANNERS  
 INTERIORS  
 ENVIRONMENTAL DESIGNERS

1001 Westbrook Street  
 Portland, Maine 04102  
 Telephone: 207.761.2300  
 Fax: 207.761.2300  
 Website: www.gensler.com

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**KEY PLAN**

1  
 2  
 3  
 4  
 5  
 6

Scale: 1/8" = 1'-0"  
**S02.01.07**

FOUNDATION PLAN - LEVEL 1&2 - ZONE 7