

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:	August 10, 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

1001 Westbrook Street

Portland, Maine 04102

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

Date(s) Performed:

July 19 through July 23, 2010

Test (s) Performed

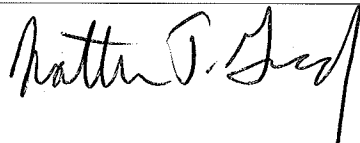
In-Place Density Testing - Nuclear Method ASTM D6938

- 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:

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
 Mike Fusco: mfusco@tcco.com
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 Elizabeth O'Toole: eotoole@tcco.com
 TMM@portlandmaine.gov
 ldobson@portlandmaine.gov
 bcybulski@tcco.com
 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: 7/19/2010
 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

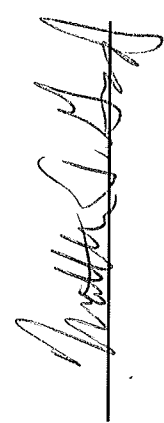
Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Retaining wall STA 3+10	FG +6'	124.0	3	96	11175
2	S of line F, 20' W of existing terminal	FG -4'	127.3	2	98	11175
3	S of line F, 30' W of existing terminal	FG -3'	125.1	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: 

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: 7/29/2010
 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:

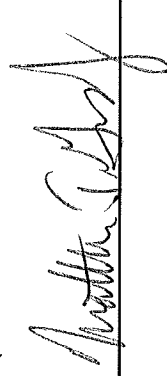
Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	West side - CB OA-6	63.50	106.0	2	96	11194
2	West side - CB OA-6	65.00	106.0	2	96	11194
3	North side - CB OA-6	67.00	109.0	2	98	11194
4	South side - CB OA-6	68.50	106.2	2	96	11194
5	Drain line - STA 11+00, Inbound lane	FG -3'	107.4	3	97	11194
6	South side - DMH OA-18	FG -3'	107.2	2	97	11194
7	South side - DMH OA-18	FG	129.3	4	99	11175
8	Drain line - STA 11+00, Inbound lane	FG	133.2	4	100	11175
9	10' SE of DMH OA-51	SG -6'	108.8	3	98	11194
10	10' SE of DMH OA-51	SG -4.5'	127.7	2	98	11175
11	10' SE of DMH OA-51	SG -3'	123.4	3	95	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:



IPD

PORTLAND INT'L AIRPORT
TERMINAL EXPANSION
557-14
7-20-10
MSK

SHEET NOTES
1. SEE DRAWING FOR DETAILS OF THE WORK.
2. SEE GENERAL NOTES.



Change Structural Schedule

NO.	DATE	DESCRIPTION	BY	CHKD.
1	07/27/09	ISSUED FOR PERMIT	MSK	MSK
2	07/27/09	ISSUED FOR PERMIT	MSK	MSK
3	07/27/09	ISSUED FOR PERMIT	MSK	MSK
4	07/27/09	ISSUED FOR PERMIT	MSK	MSK
5	07/27/09	ISSUED FOR PERMIT	MSK	MSK
6	07/27/09	ISSUED FOR PERMIT	MSK	MSK
7	07/27/09	ISSUED FOR PERMIT	MSK	MSK
8	07/27/09	ISSUED FOR PERMIT	MSK	MSK
9	07/27/09	ISSUED FOR PERMIT	MSK	MSK
10	07/27/09	ISSUED FOR PERMIT	MSK	MSK
11	07/27/09	ISSUED FOR PERMIT	MSK	MSK
12	07/27/09	ISSUED FOR PERMIT	MSK	MSK
13	07/27/09	ISSUED FOR PERMIT	MSK	MSK
14	07/27/09	ISSUED FOR PERMIT	MSK	MSK

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE IBC, AIAA, AND ALL APPLICABLE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
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BACKFILL UTILITIES



Portland International
Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler
MEET ASSOCIATES, INC.
ARCHITECTS - INTERIORS - LANDSCAPE ARCHITECTS



DATE: 07/27/09
PROJECT: PORTLAND INTERNATIONAL AIRPORT
SHEET: C02.02
SCALE: AS SHOWN
DRAWN BY: MSK
CHECKED BY: MSK
DATE: 07/27/09

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: 7/21/2010
 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: **AUG 10 2010**

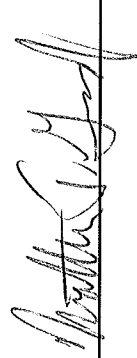
Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Retaining wall - 4+60	FG +7.5'	122.7	2	95	11175
2	10' N of DMH OA-51	SG -6'	106.0	2	96	11194
3	35' N of DMH OA-51	SG -4.5'	124.2	4	96	11175
4	25' N of DMH OA-51	SG -3'	130.6	4	100	11175
5	30' N of DMH OA-51	SG -2'	125.1	3	96	11175
6	Midway between OA-51 and DMH OA-30	SG -6'	110.9	2	100	11194
7	Midway between OA-51 and DMH OA-30	SG -4.5'	125.4	3	97	11175
8	10' SE of DMH OA-51	SG -1.5'	127.6	4	98	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: 7/22/2010
 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: **AUG 10 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Retaining wall STA 1+65	FG +2'	124.8	6	96	11175
2	S corner of access box at retaining wall STA 1+70	FG -6'	126.8	4	98	11175
3	Y1/10' N of XM.5	TOW -6'	126.8	4	98	11175
4	Y1/10' N of XM.5	TOW -4.5'	133.1	3	100	11175
5	Y1/10' N of XM.5	TOW -3'	124.0	4	96	11175
6	Y2.5/XM.5	TOF	124.6	6	96	11175

Remarks:

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 FGSG = Finish Grade of Subgrade

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 BOW = Bottom of Wall
 BOF = Bottom of Footing
 SG = Subgrade

Checked by: 

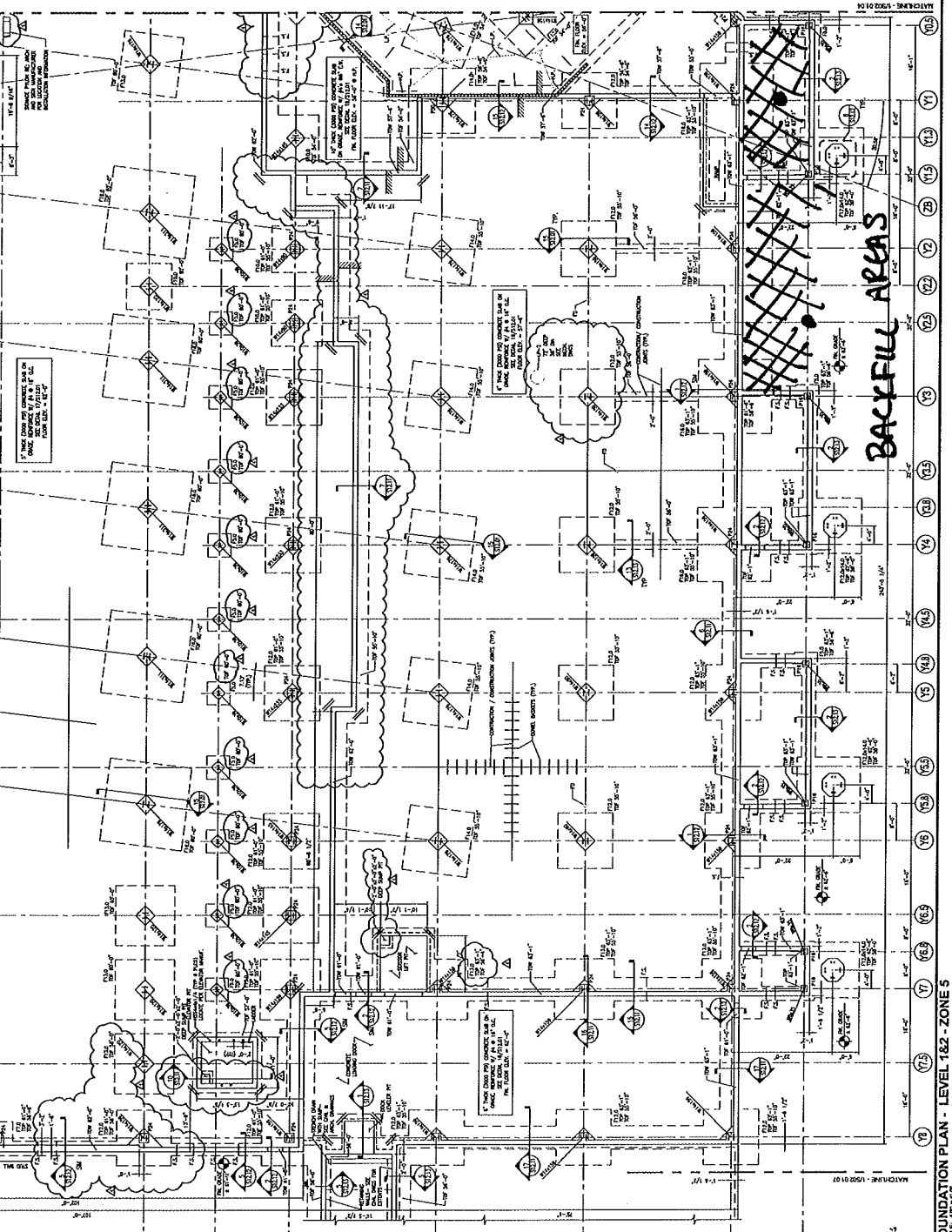
IPD

- SHEET NOTES**
1. INDICATE THE TYPE OF WALL OR FOOTING TO BE CONSTRUCTED BY THE CONTRACTOR. SEE THE NOTES ON SHEET 02 FOR THE LIST OF WALL AND FOOTING TYPES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WALL AND FOOTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WALL AND FOOTING.
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PORTLAND INTERNATIONAL
 Jetport
 1001 Westbrook Street
 Portland, Maine 04102

Gensler
MBST ASSOCIATES, INC.
 ENGINEERS ARCHITECTS INTERIORS CONSTRUCTION MANAGERS

PORTLAND INT'L SETBACK
 557-64
 7-22-10
 MSK



GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WALL AND FOOTING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WALL AND FOOTING.
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20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WALL AND FOOTING.

KEY PLAN



2/9

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

Date: 7/23/2010
 Technician: MLK
 Nuclear Gauge Make/Model: PQI
 Date Reported: **AUG 10 2010**

Test No.	Location	Elevation	Bulk Density	Percent Compaction
1	STA 4+70	FGBi	149.4	95
2	STA 7+78	FGBi	149.0	95
3	STA 10+24	FGBi	148.6	95

Remarks: FGBi = Finish Grade Binder, See attached sketch
 Lab No. 11402, TMD = 156.6 pcf

MTB

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

Client: City of Portland
 Test Date: July 23, 2010
 Technician: Rodney Collard
 Gauge Model/Serial Number: PQ1
 Report Issue Date: AUG 10 2010

Lab No.	Soil Description	ASTM Max Density	ASTM D1557 Opt. Moisture
11175	Binder Course Asphalt	156.6	

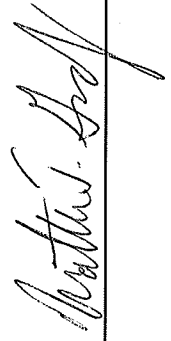
Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	Temperature (%)	Percent of Max. (%)	Lab. No.
1	Foundation Backfill Zone 5	T.O.W. - 6'	123.2	4	95	11175
2	Foundation Backfill Zone 5	T.O.W. - 6'	124.8	5	96	11175
3	Foundation Backfill Zone 5	T.O.W. - 6'	125.6	4	97	11175
4	Foundation Backfill Zone 5	T.O.W. - 5'	134.3	4	100+	11175
5	Foundation Backfill Zone 5	T.O.W. - 5'	123.4	6	95	11175
6	Foundation Backfill Zone 5	T.O.W. - 4'	127.9	3	99	11175
7	Foundation Backfill Zone 5	T.O.W. - 4'	123.3	4	95	11175
8	Foundation Backfill Zone 5	T.O.W. - 4'	125.9	4	97	11175
9	Foundation Backfill Zone 5	T.O.W. - 5'	131.3	4	100	11175
10	Foundation Backfill Zone 5	T.O.W. - 5'	124.2	4	96	11175
11	Foundation Backfill Zone 5	T.O.W. - 5'	125.8	3	97	11175
12	Foundation Backfill Zone 5	T.O.W. - 3'	123.5	5	95	11175
13	Foundation Backfill Zone 5	T.O.W. - 3'	125.8	4	97	11175
14	Foundation Backfill Zone 5	T.O.F.	127.4	4	98	11175
15	Foundation Backfill Zone 5	T.O.W. - 3'	131.0	4	100+	11175
16	Foundation Backfill Zone 5	T.O.W. - 4'	127.9	4	99	11175
17	Foundation Backfill Zone 5	T.O.F. + 1'	123.5	6	95	11175
18	Foundation Backfill Zone 5	T.O.W. - 4'	125.2	5	97	11175
19	Foundation Backfill Zone 5	T.O.W. - 3'	126.9	3	98	11175
20	Foundation Backfill Zone 5	T.O.W. - 2'	123.5	3	95	11175
21	Foundation Backfill Zone 5	T.O.F.	125.6	4	97	11175
22	Foundation Backfill Zone 5	T.O.F. + 1'	128.5	4	99	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
 TOF = Top of Foundation

Checked by:



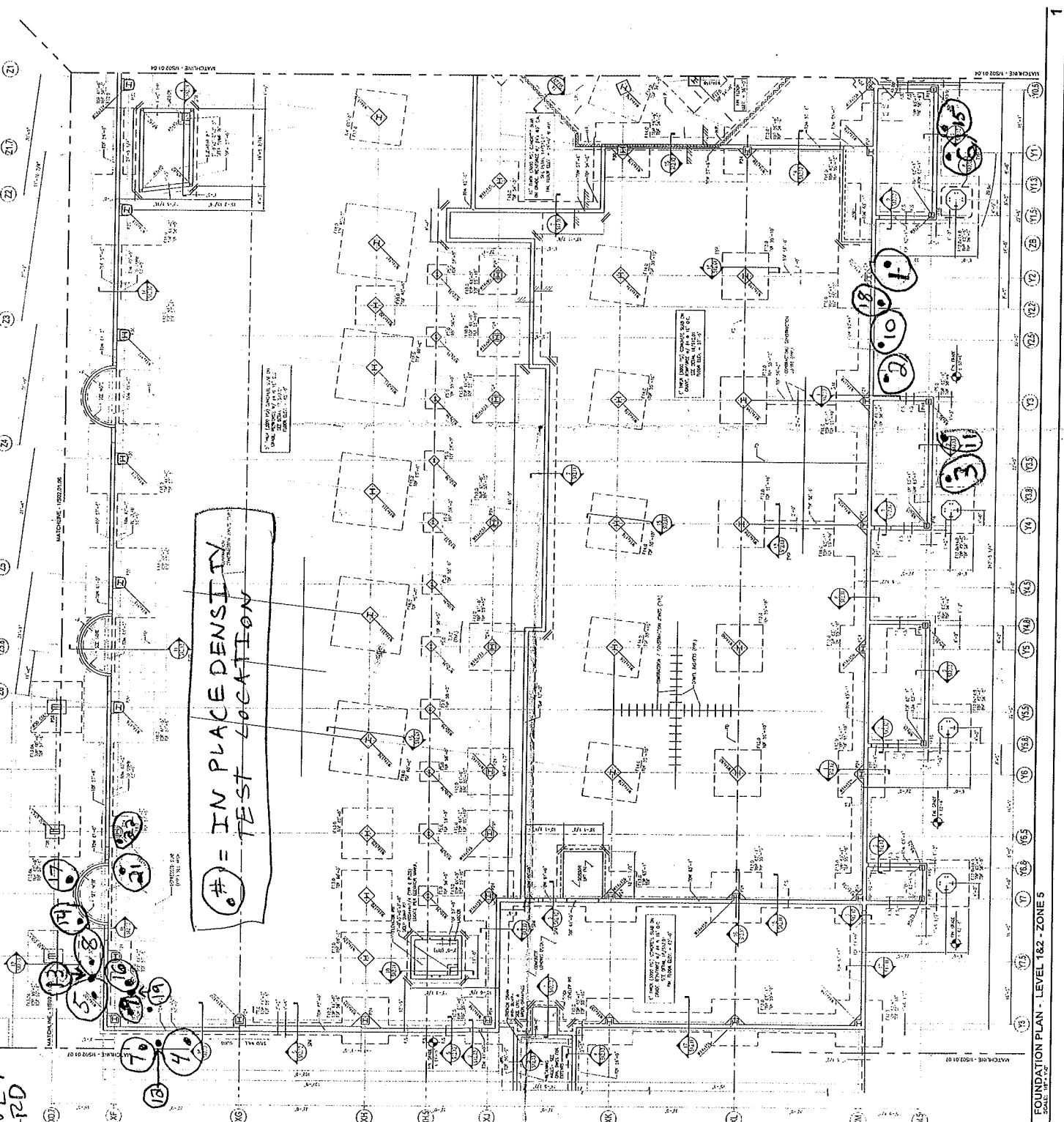
RODNEY COLLARD
557-14 7/23/10

Portland International
Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler

nest ASSOCIATE, INC.
Project: Portland International Jetport Expansion

- SHEET NOTES**
1. VERIFY EXISTING CONDITIONS AND FIELD SURVEY DATA.
 2. VERIFY ALL DIMENSIONS AND ELEVATIONS.
 3. VERIFY ALL MATERIALS AND METHODS.
 4. VERIFY ALL PERMITS AND REGULATIONS.
 5. VERIFY ALL UTILITIES AND SERVICES.
 6. VERIFY ALL ACCESS AND EGRESS.
 7. VERIFY ALL SAFETY AND SECURITY.
 8. VERIFY ALL ENVIRONMENTAL AND HISTORICAL REQUIREMENTS.
 9. VERIFY ALL CONSTRUCTION SEQUENCES.
 10. VERIFY ALL FINISHES AND TOLERANCES.



- GENERAL NOTES**
1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 2. VERIFY ALL DIMENSIONS AND ELEVATIONS.
 3. VERIFY ALL MATERIALS AND METHODS.
 4. VERIFY ALL PERMITS AND REGULATIONS.
 5. VERIFY ALL UTILITIES AND SERVICES.
 6. VERIFY ALL ACCESS AND EGRESS.
 7. VERIFY ALL SAFETY AND SECURITY.
 8. VERIFY ALL ENVIRONMENTAL AND HISTORICAL REQUIREMENTS.
 9. VERIFY ALL CONSTRUCTION SEQUENCES.
 10. VERIFY ALL FINISHES AND TOLERANCES.

KEY PLAN

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

FOUNDATION PLAN - LEVEL 182 - ZONE 5

S02.01.05