

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

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

Date:	10 Nov 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:

October 20-22, 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
 Shaun Winner: swinner@tcco.com
 Elizabeth O'Toole: eotoole@tcco.com
 TMM@portlandmaine.gove
 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

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: 10/20/2010
 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 Tank	FG -3'	102.3	4	92	11194
2	Geothermal Tank	FG -3'	102.4	3	92	11194
3	Geothermal Tank	FG -2'	106.7	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.

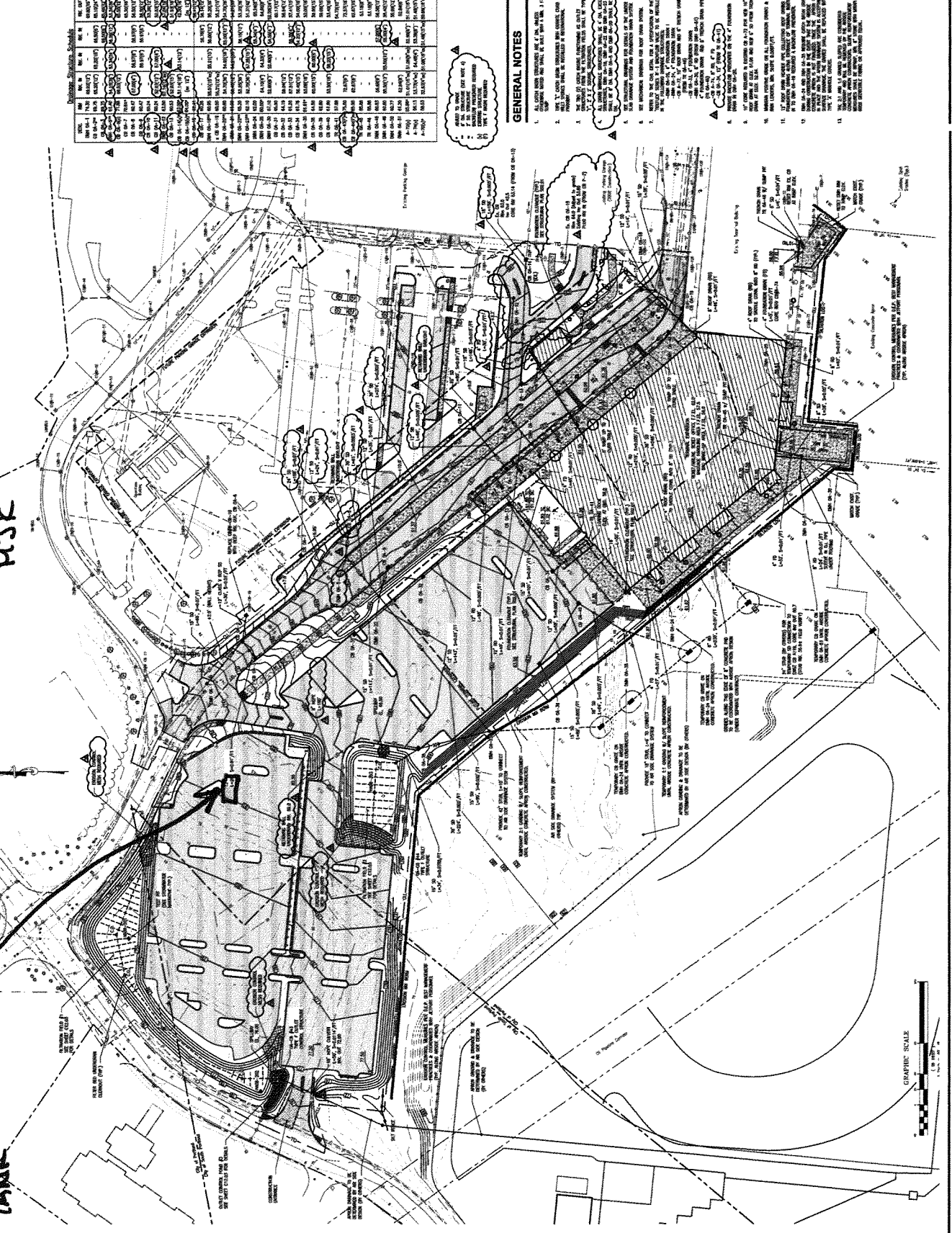
FG = Finish Grade
 FF = Finish Floor
 FGB = Finish Grade of Base
 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

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

Checked by:

PORTLAND INT'L JETPORT
TERMINAL EXPANSION
SS7-14
HJK

IPDS AROUND
GEOTHERMAL
TANK



SHEET NOTES

- 1. SEE GENERAL NOTES FOR DETAILS OF THE WORK.
- 2. SEE GENERAL NOTES FOR CONSTRUCTION DETAILS.
- 3. SEE GENERAL NOTES FOR MATERIALS AND FINISHES.
- 4. SEE GENERAL NOTES FOR SCHEDULES AND SPECIFICATIONS.
- 5. SEE GENERAL NOTES FOR UTILITIES AND MECHANICAL SYSTEMS.
- 6. SEE GENERAL NOTES FOR ELECTRICAL AND COMMUNICATIONS SYSTEMS.
- 7. SEE GENERAL NOTES FOR STRUCTURAL AND FOUNDATION SYSTEMS.
- 8. SEE GENERAL NOTES FOR ROOFING AND CLADDING SYSTEMS.
- 9. SEE GENERAL NOTES FOR INTERIORS AND FINISHES.
- 10. SEE GENERAL NOTES FOR LANDSCAPE AND SITEWORK.

NO.	DESCRIPTION	DATE	BY	CHECKED
1	10-22-09	MBST	HJK	
2	11-18-09	MBST	HJK	
3	12-15-09	MBST	HJK	
4	01-15-10	MBST	HJK	
5	02-10-10	MBST	HJK	
6	03-10-10	MBST	HJK	
7	04-10-10	MBST	HJK	
8	05-10-10	MBST	HJK	
9	06-10-10	MBST	HJK	
10	07-10-10	MBST	HJK	
11	08-10-10	MBST	HJK	
12	09-10-10	MBST	HJK	
13	10-10-10	MBST	HJK	
14	11-10-10	MBST	HJK	
15	12-10-10	MBST	HJK	
16	01-10-11	MBST	HJK	
17	02-10-11	MBST	HJK	
18	03-10-11	MBST	HJK	
19	04-10-11	MBST	HJK	
20	05-10-11	MBST	HJK	
21	06-10-11	MBST	HJK	
22	07-10-11	MBST	HJK	
23	08-10-11	MBST	HJK	
24	09-10-11	MBST	HJK	
25	10-10-11	MBST	HJK	
26	11-10-11	MBST	HJK	
27	12-10-11	MBST	HJK	
28	01-10-12	MBST	HJK	
29	02-10-12	MBST	HJK	
30	03-10-12	MBST	HJK	
31	04-10-12	MBST	HJK	
32	05-10-12	MBST	HJK	
33	06-10-12	MBST	HJK	
34	07-10-12	MBST	HJK	
35	08-10-12	MBST	HJK	
36	09-10-12	MBST	HJK	
37	10-10-12	MBST	HJK	
38	11-10-12	MBST	HJK	
39	12-10-12	MBST	HJK	
40	01-10-13	MBST	HJK	
41	02-10-13	MBST	HJK	
42	03-10-13	MBST	HJK	
43	04-10-13	MBST	HJK	
44	05-10-13	MBST	HJK	
45	06-10-13	MBST	HJK	
46	07-10-13	MBST	HJK	
47	08-10-13	MBST	HJK	
48	09-10-13	MBST	HJK	
49	10-10-13	MBST	HJK	
50	11-10-13	MBST	HJK	
51	12-10-13	MBST	HJK	
52	01-10-14	MBST	HJK	
53	02-10-14	MBST	HJK	
54	03-10-14	MBST	HJK	
55	04-10-14	MBST	HJK	
56	05-10-14	MBST	HJK	
57	06-10-14	MBST	HJK	
58	07-10-14	MBST	HJK	
59	08-10-14	MBST	HJK	
60	09-10-14	MBST	HJK	
61	10-10-14	MBST	HJK	
62	11-10-14	MBST	HJK	
63	12-10-14	MBST	HJK	
64	01-10-15	MBST	HJK	
65	02-10-15	MBST	HJK	
66	03-10-15	MBST	HJK	
67	04-10-15	MBST	HJK	
68	05-10-15	MBST	HJK	
69	06-10-15	MBST	HJK	
70	07-10-15	MBST	HJK	
71	08-10-15	MBST	HJK	
72	09-10-15	MBST	HJK	
73	10-10-15	MBST	HJK	
74	11-10-15	MBST	HJK	
75	12-10-15	MBST	HJK	
76	01-10-16	MBST	HJK	
77	02-10-16	MBST	HJK	
78	03-10-16	MBST	HJK	
79	04-10-16	MBST	HJK	
80	05-10-16	MBST	HJK	
81	06-10-16	MBST	HJK	
82	07-10-16	MBST	HJK	
83	08-10-16	MBST	HJK	
84	09-10-16	MBST	HJK	
85	10-10-16	MBST	HJK	
86	11-10-16	MBST	HJK	
87	12-10-16	MBST	HJK	
88	01-10-17	MBST	HJK	
89	02-10-17	MBST	HJK	
90	03-10-17	MBST	HJK	
91	04-10-17	MBST	HJK	
92	05-10-17	MBST	HJK	
93	06-10-17	MBST	HJK	
94	07-10-17	MBST	HJK	
95	08-10-17	MBST	HJK	
96	09-10-17	MBST	HJK	
97	10-10-17	MBST	HJK	
98	11-10-17	MBST	HJK	
99	12-10-17	MBST	HJK	
100	01-10-18	MBST	HJK	

- GENERAL NOTES**
1. ALL WORK SHALL BE CONFORMANT WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC), THE INTERNATIONAL PLUMBING CODE (IPC), THE INTERNATIONAL MECHANICAL AND ELECTRICAL CODE (IMC), THE INTERNATIONAL FIRE AND SAFETY CODE (IFSC), AND THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL AUTHORITY.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.
 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY.

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: October 21, 2010
 Technician: Erik Cohenour
 Gauge Model/Serial Number: Seaman L500

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


Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Plumbing Lines -Floor1	FGSG	124.9	3	96	11175
2	Plumbing Lines -Floor1	FGSG	124.1	3	96	11175
3	Plumbing Lines -Floor1	FGSG	123.5	3	95	11175
4	Plumbing Lines -Floor1	FGSG	125.5	3	97	11175
5	Plumbing Lines -Floor1	FGSG	125.4	3	97	11175
6	Geothermal Tank	FGSG -3'	103.6	4	93	11194

Remarks: MAXIMUM DENSITY OF TESTS REQUIRED FOR TESTS MINUS 3' OR GREATER BELOW FINISHED GRADE.

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: 

1	DATE	DESCRIPTION
1	10/20/10	ISSUE FOR PERMIT
2	01/22/08	ISSUE FOR CONSTRUCTION
3	03/22/08	ISSUE FOR CONSTRUCTION
4	03/22/08	ISSUE FOR CONSTRUCTION
5	03/22/08	ISSUE FOR CONSTRUCTION
6	03/22/08	ISSUE FOR CONSTRUCTION
7	03/22/08	ISSUE FOR CONSTRUCTION
8	03/22/08	ISSUE FOR CONSTRUCTION
9	03/22/08	ISSUE FOR CONSTRUCTION
10	03/22/08	ISSUE FOR CONSTRUCTION

THE UNIVERSITY OF MAINE
SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING
PLUMBING & PIPING PLAN

PROJECT NO. 557-14
DATE: 10/20/10
TECHNOLOGIST: FEC

GRAPHIC SCALE
1" = 10' - 0"

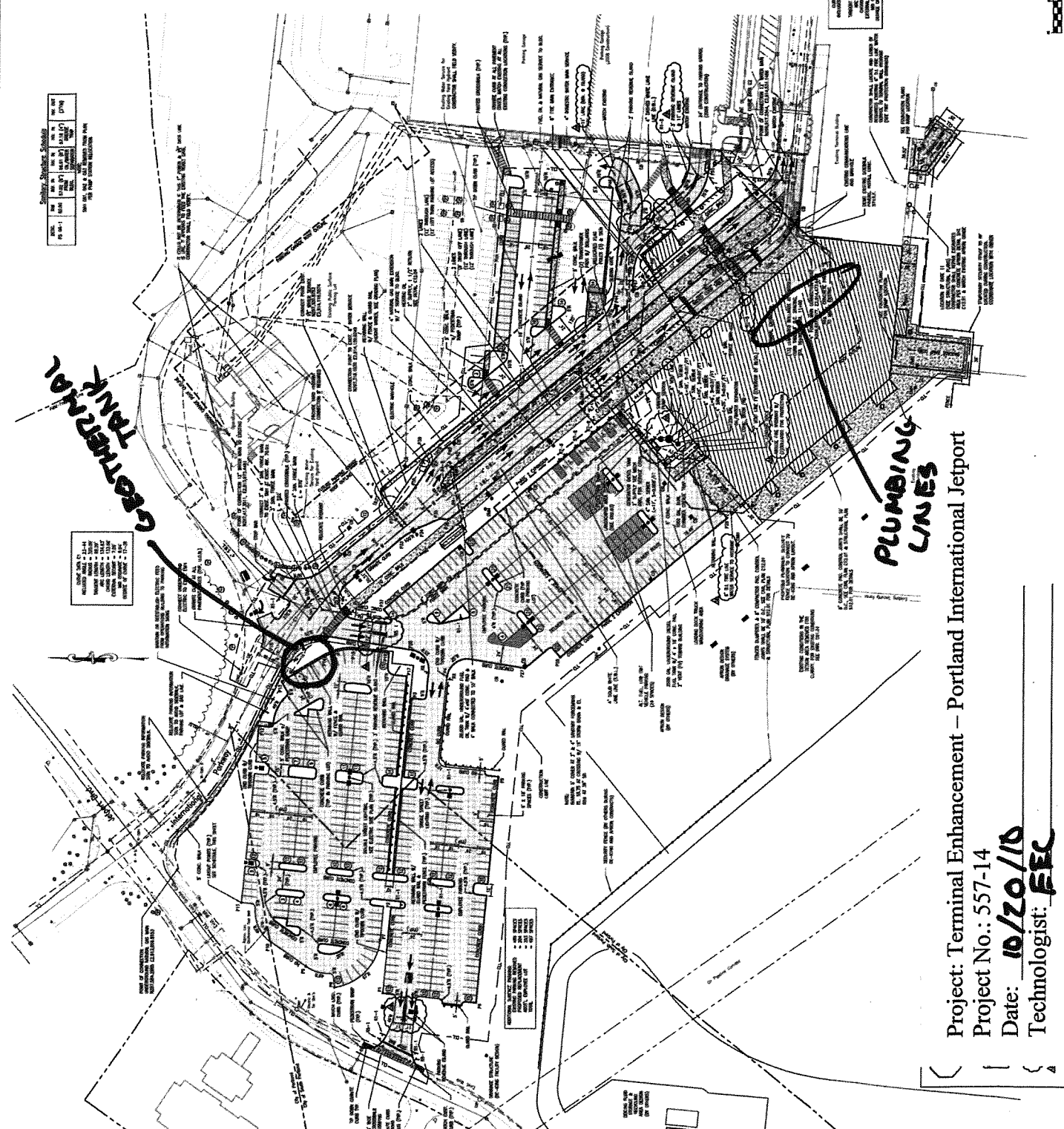
SHEET NOTES

Legend - Construction Schedule

1	CONSTRUCTION
2	MECHANICAL
3	ELECTRICAL
4	PLUMBING
5	PAINTING
6	FINISHES
7	LANDSCAPE
8	ASPHALT
9	CONCRETE
10	STEEL
11	WOOD
12	GLASS
13	OTHER

GENERAL NOTES

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE TO FACE UNLESS INDICATED OTHERWISE.
2. THE CONSTRUCTION DOCUMENTS SHALL BE USED IN THE SEQUENCE LISTED HEREIN.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MACHINERY CODE, AS APPLICABLE.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MECHANICAL CODE, AS APPLICABLE.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ELECTRICAL CODE, AS APPLICABLE.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE PLUMBING CODE, AS APPLICABLE.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE PAINTING CODE, AS APPLICABLE.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FINISHES CODE, AS APPLICABLE.
9. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE LANDSCAPE CODE, AS APPLICABLE.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ASPHALT CODE, AS APPLICABLE.
11. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CONCRETE CODE, AS APPLICABLE.
12. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STEEL CODE, AS APPLICABLE.
13. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE WOOD CODE, AS APPLICABLE.
14. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE GLASS CODE, AS APPLICABLE.
15. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE OTHER CODE, AS APPLICABLE.



Project: Terminal Enhancement - Portland International Jetport
 Project No.: 557-14
 Date: 10/20/10
 Technologist: **FEC**

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: October 21, 2010
 Technician: Erik Cohenour
 Gauge Model/Serial Number: Seaman L500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly graded sand	111.0	11


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 - 1ft	102.3	6	92	11194
2	Geothermal Tank	FG - 1ft	106.3	4	96	11194
3	Geothermal Tank (Retest 1)	FG - 1ft	103.0	6	93	11194
4	Geothermal Tank (Retest 3)	FG - 1ft	104.0	5	94	11194
5	Geothermal Tank (Retest 4)	FG - 1ft	105.2	7	95	11194

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
 BOF = Bottom of Footing

Checked by: 

SHEET NOTES

Legend

1	EXISTING CONSTRUCTION
2	PROPOSED CONSTRUCTION
3	PROPOSED CONSTRUCTION - TO BE REMOVED
4	PROPOSED CONSTRUCTION - TO BE MAINTAINED
5	PROPOSED CONSTRUCTION - TO BE RECONSTRUCTED
6	PROPOSED CONSTRUCTION - TO BE REPAIRED
7	PROPOSED CONSTRUCTION - TO BE REPLACED
8	PROPOSED CONSTRUCTION - TO BE DEMOLISHED
9	PROPOSED CONSTRUCTION - TO BE PRESERVED
10	PROPOSED CONSTRUCTION - TO BE ENHANCED
11	PROPOSED CONSTRUCTION - TO BE MODIFIED
12	PROPOSED CONSTRUCTION - TO BE ADDED
13	PROPOSED CONSTRUCTION - TO BE DELETED
14	PROPOSED CONSTRUCTION - TO BE REDESIGNED
15	PROPOSED CONSTRUCTION - TO BE RELOCATED
16	PROPOSED CONSTRUCTION - TO BE REORIENTED
17	PROPOSED CONSTRUCTION - TO BE RECONFIGURED
18	PROPOSED CONSTRUCTION - TO BE RESTRUCTURED
19	PROPOSED CONSTRUCTION - TO BE REFORMED
20	PROPOSED CONSTRUCTION - TO BE REFINISHED
21	PROPOSED CONSTRUCTION - TO BE REFINISHED
22	PROPOSED CONSTRUCTION - TO BE REFINISHED
23	PROPOSED CONSTRUCTION - TO BE REFINISHED
24	PROPOSED CONSTRUCTION - TO BE REFINISHED
25	PROPOSED CONSTRUCTION - TO BE REFINISHED
26	PROPOSED CONSTRUCTION - TO BE REFINISHED
27	PROPOSED CONSTRUCTION - TO BE REFINISHED
28	PROPOSED CONSTRUCTION - TO BE REFINISHED
29	PROPOSED CONSTRUCTION - TO BE REFINISHED
30	PROPOSED CONSTRUCTION - TO BE REFINISHED

Surface, Structural, Schedule

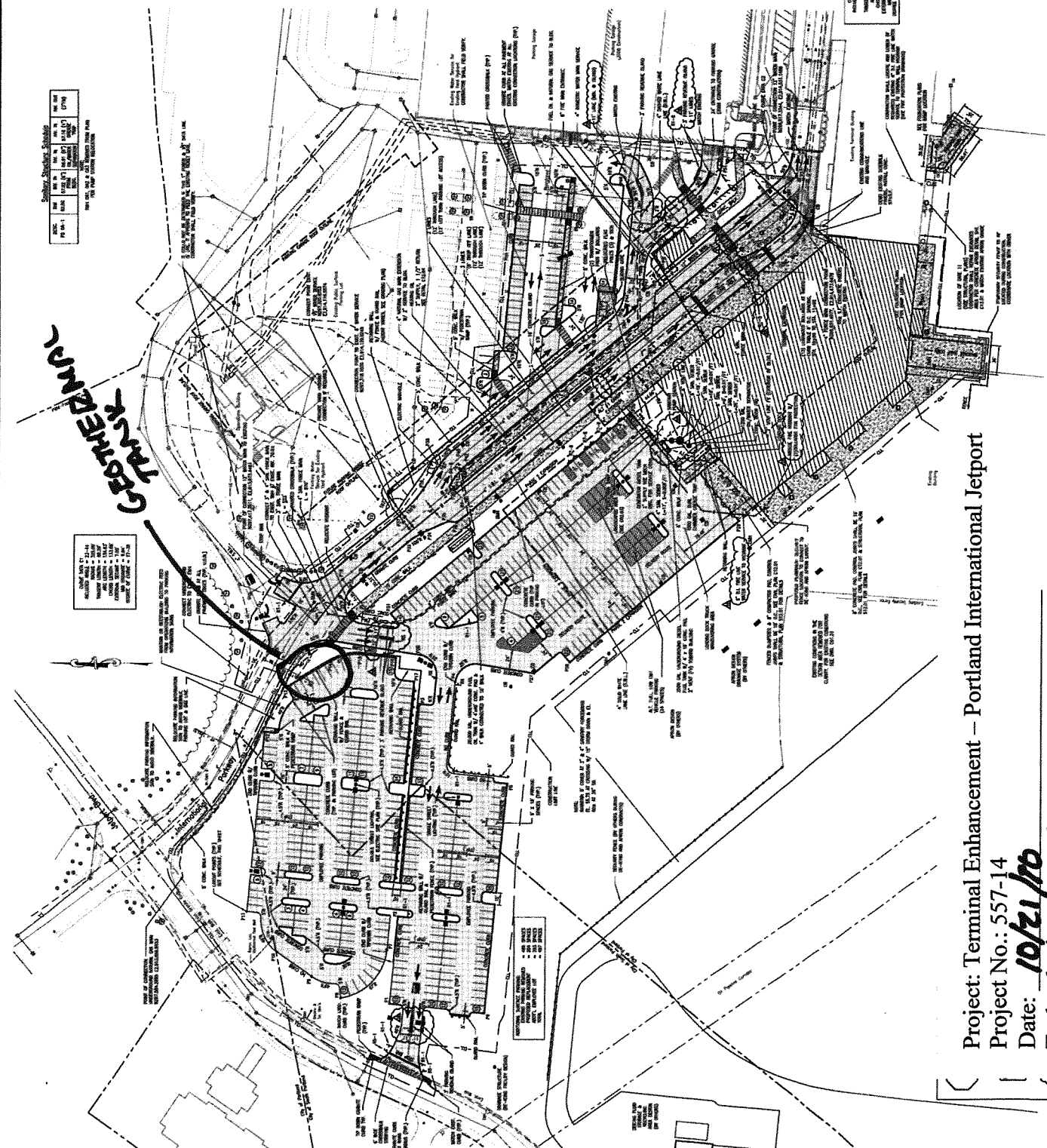
1	ASPH/CON	1.5"	1.5"	1.5"	1.5"
2	CONC	4"	4"	4"	4"
3	GRAVEL	4"	4"	4"	4"
4	GRAVEL	4"	4"	4"	4"
5	GRAVEL	4"	4"	4"	4"
6	GRAVEL	4"	4"	4"	4"
7	GRAVEL	4"	4"	4"	4"
8	GRAVEL	4"	4"	4"	4"
9	GRAVEL	4"	4"	4"	4"
10	GRAVEL	4"	4"	4"	4"
11	GRAVEL	4"	4"	4"	4"
12	GRAVEL	4"	4"	4"	4"
13	GRAVEL	4"	4"	4"	4"
14	GRAVEL	4"	4"	4"	4"
15	GRAVEL	4"	4"	4"	4"
16	GRAVEL	4"	4"	4"	4"
17	GRAVEL	4"	4"	4"	4"
18	GRAVEL	4"	4"	4"	4"
19	GRAVEL	4"	4"	4"	4"
20	GRAVEL	4"	4"	4"	4"
21	GRAVEL	4"	4"	4"	4"
22	GRAVEL	4"	4"	4"	4"
23	GRAVEL	4"	4"	4"	4"
24	GRAVEL	4"	4"	4"	4"
25	GRAVEL	4"	4"	4"	4"
26	GRAVEL	4"	4"	4"	4"
27	GRAVEL	4"	4"	4"	4"
28	GRAVEL	4"	4"	4"	4"
29	GRAVEL	4"	4"	4"	4"
30	GRAVEL	4"	4"	4"	4"

DATE

DATE	BY	REVISION
10/21/10	PEC	1.0

GENERAL NOTES

1. ALL EXISTING AND PROPOSED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY AND SECURITY MEASURES THROUGHOUT THE PROJECT.
6. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AND AS-BUILT DRAWINGS UPON COMPLETION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL ENVIRONMENTAL RESOURCES.



Project: Terminal Enhancement - Portland International Jetport
 Project No.: 557-14
 Date: 10/21/10
 Technologist: PEC

Portland International Jetport
 1001 Westbrook Street
 Portland, Maine 04102

Gensler
nest ASSOCIATES, INC.
 architects • interior designers • landscape architects • construction managers

NO.	DATE	DESCRIPTION
1	10/21/10	ISSUED FOR PERMITTING
2	10/21/10	ISSUED FOR CONSTRUCTION
3	10/21/10	ISSUED FOR CONSTRUCTION
4	10/21/10	ISSUED FOR CONSTRUCTION
5	10/21/10	ISSUED FOR CONSTRUCTION
6	10/21/10	ISSUED FOR CONSTRUCTION
7	10/21/10	ISSUED FOR CONSTRUCTION
8	10/21/10	ISSUED FOR CONSTRUCTION
9	10/21/10	ISSUED FOR CONSTRUCTION
10	10/21/10	ISSUED FOR CONSTRUCTION



THE LAYOUT & FINISHES PLAN
 SHEET C02.01



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: October 22, 2010
 Technician: Erik Cohenour
 Gauge Model/Serial Number: Seaman L500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8
11177	Reused Parking Lot Gravel	134.8	6

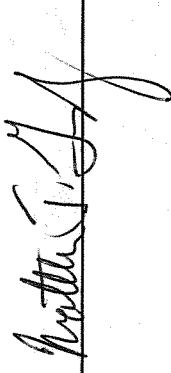
Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Electrical trench behind retaining wall	FG - 6"	131.1	3	97	11177
2	Parking area in front of garage	FG - 6"	126.4	4	97	11175
3	Parking area in front of garage	FG - 6"	129.7	5	100	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
 BOF = Bottom of Footing

Checked by: 

NO.	DATE	DESCRIPTION	BY	CHKD.
1	05/22/08	ISSUED FOR PERMIT	ME	ME
2	05/22/08	ISSUED FOR PERMIT	ME	ME
3	05/22/08	ISSUED FOR PERMIT	ME	ME
4	05/22/08	ISSUED FOR PERMIT	ME	ME
5	05/22/08	ISSUED FOR PERMIT	ME	ME
6	05/22/08	ISSUED FOR PERMIT	ME	ME
7	05/22/08	ISSUED FOR PERMIT	ME	ME
8	05/22/08	ISSUED FOR PERMIT	ME	ME
9	05/22/08	ISSUED FOR PERMIT	ME	ME
10	05/22/08	ISSUED FOR PERMIT	ME	ME



SHEET NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MEIN STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MAINTENANCE, AND THE MEIN STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR AIRPORT CONSTRUCTION AND MAINTENANCE, UNLESS OTHERWISE SPECIFIED.

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 OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.

9. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MEIN STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MAINTENANCE, AND THE MEIN STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR AIRPORT CONSTRUCTION AND MAINTENANCE, UNLESS OTHERWISE SPECIFIED.

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.

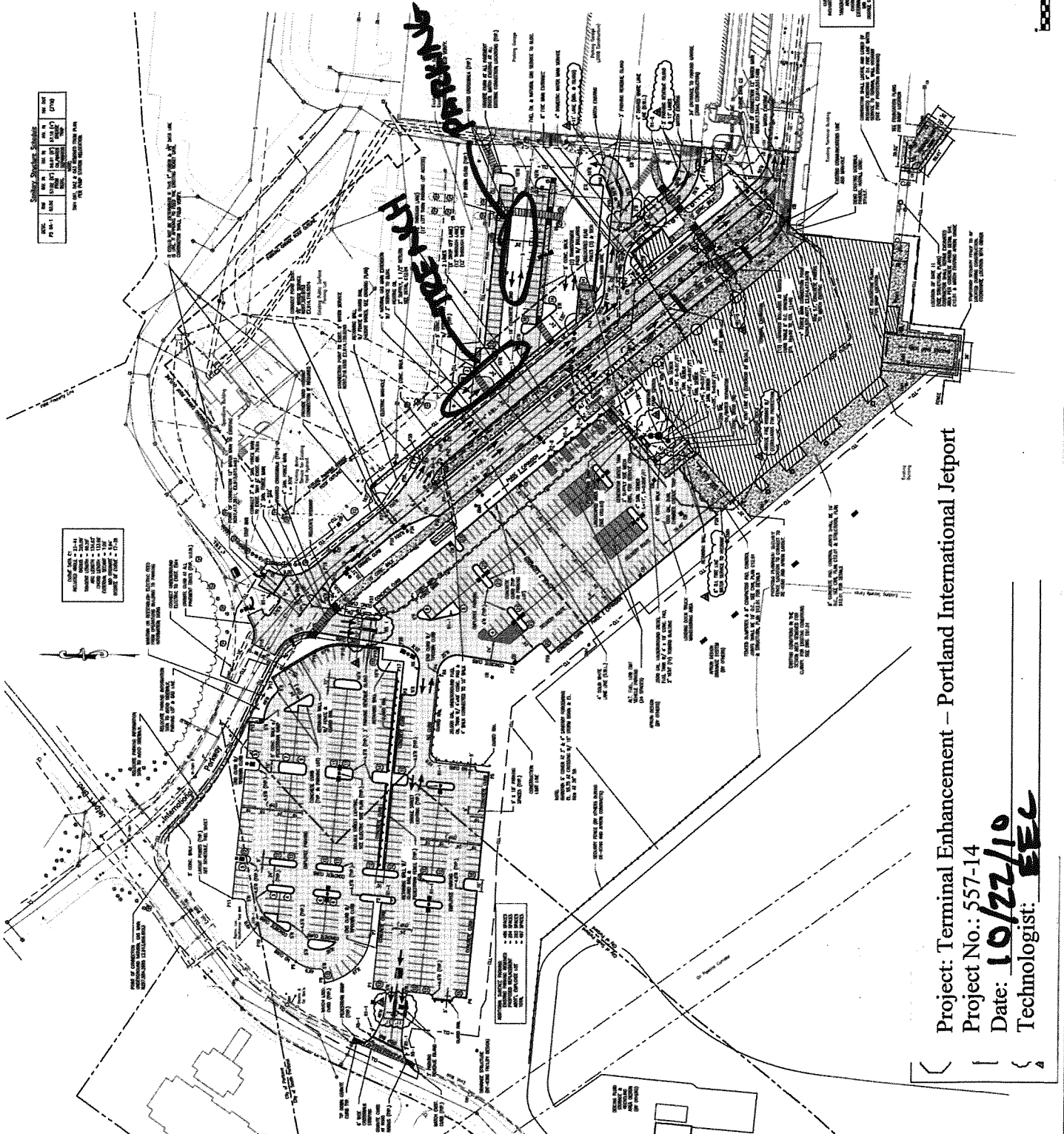
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.

9. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



Project: Terminal Enhancement - Portland International Jetport
Project No.: 557-14
Date: 10/22/10
Technologist: EEC