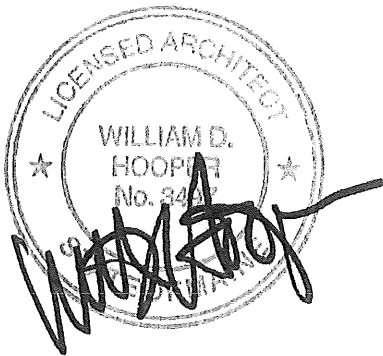


CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I the Architect of Record, or a qualified representative of Gensler observed the construction work associated with **Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine** on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been done in conformance with the permit and plans approved by the City of Portland Planning and Development Department and with the provisions of the International Building Code and all other pertinent laws and ordinances.



William D. Hooper, AIA
ARCHITECT

3497
MAINE. REG. NO.

Gensler
Company

2020 K Street NW Suite 200
Washington, DC 20006
Address

(202)721-5339
Telephone

Feb 1, 2012
Date

Construction Observation Dates:

I, or a qualified representative of Gensler under my supervision, made site observations at an interval consistent with the level of construction necessary from Sept 1, 2011 to February 1, 2012



Structural Statement of Special Inspections

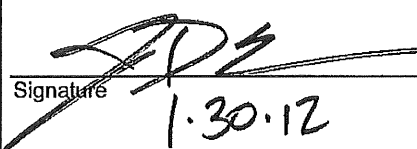
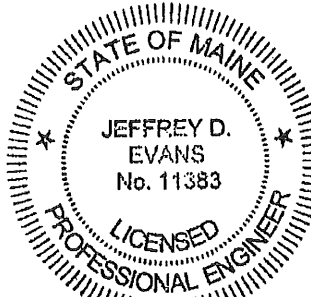
Project:	PWM Jetport Terminal Enhancement – Phase II 1001 Westbrook Street Portland, Maine 04102
Permit Applicant:	Turner Construction Company Two Seaport Lane, 2 nd Floor Boston, Massachusetts 02210
Owner:	Portland International Jetport 1001 Westbrook Street Portland, Maine 04102

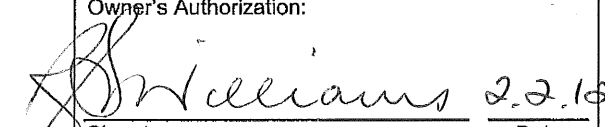
This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a Schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator (SSIC) shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

The Special Inspection program does not relieve the contractor of the responsibility to comply with the Contract Documents. Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Prepared by: Jeffrey D. Evans, PE Structural Registered Design Professional in Responsible Charge  Signature _____ 1.30.12	 Design Professional Seal
--	---

Owner's Authorization:  Signature _____ Date _____ 2.2.12

Building Code Official's Acceptance: Signature _____ Date _____ Permit # - _____
--

Structural Statement of Special Inspections (Continued)

List of Inspection and Testing Agents

Agent	Firm	Contact Information
1. Structural Special Inspections Coordinator (SSIC)	AMEC Earth and Environmental	343 Gorham Road South Portland, ME 04106 Tel: 207-761-1770 Fax: 207-774-1246
2. Special Inspector (SI 1)	AMEC Earth and Environmental	343 Gorham Road South Portland, ME 04106 Tel: 207-761-1770 Fax: 207-774-1246
3. Special Inspector (SI 2)		
4. Testing Agency (TA 1)	R.W. Gillespie & Associates, Inc.	86 Industrial Park Road, Suite 4 Saco, Maine 04072 Tel: 207-286-8008 Fax: 207-286-2882
5. Testing Agency (TA 2)		
6. Testing Agency (TA 3)		
7. Other (O1)		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Structural Schedule of Special Inspections

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

Experienced Testing Technician

ETT	Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection
-----	---

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III.
------	---

International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Other

Structural Schedule of Special Inspections

SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.7, 1704.8, 1704.9						
1. Verify existing soil conditions, fill placement and load bearing requirements						
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.	Y	P	IBC 1704.7.1	TA 1	PE/GE, EIT or ETT	Y
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	C	IBC 1704.7.2	TA 1	PE/GE, EIT or ETT	Y
c. Test in-place dry density of compacted fill complies with the approved soils report.	Y	p	IBC 1704.7.2	TA 1	PE/GE, EIT or ETT	Y

Structural Schedule of Special Inspections
CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.4						
1. Inspection of reinforcing steel and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI 1	PE/SE or EIT	Y
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	N	C	IBC 1912.5	N/A	PE/SE or EIT	Y
4. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	SI 1	PE/SE or EIT	Y
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	TA 1	ACI-CFTT or ACI-STT	Y
6. Inspection of concrete placement for proper application techniques	Y	P	ACI 318: 5.9, 5.10	SI 1	PE/SE or EIT	Y
7. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11- 5.13	SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.3						
1. Material verification of high-strength bolts, nuts and washers:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3	SI 1	PE/SE or EIT	Y
b. Manufacturer's certificate of compliance required.	Y	S		SI 1	PE/SE or EIT	Y
2. Inspection of high-strength bolting						
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5	TA 1	AWS/AISC-SSI	Y
b. Slip-critical connections.	N	C or P (method dependent)	IBC Sect 1704.3.3	N/A	AWS/AISC-SSI	N/A
3. Material verification of structural steel:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568	SI 1	PE/SE or EIT	Y
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568	SI 1	PE/SE or EIT	Y
4. Material verification of weld filler materials:						
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	P	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	SI 1	PE/SE or EIT	Y
b. Manufacturer's certificate of compliance required.	Y	S		SI 1	PE/SE or EIT	Y
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SI 1	PE/SE or EIT	Y
6. Inspection of welding (IBC 1704.3.1):						
a. Structural steel:						
1) Complete and partial penetration groove welds.	N	C	AWS D1.1	N/A	AWS-CWI	N/A
2) Multipass fillet welds.	N	C		N/A	AWS-CWI	N/A
3) Single-pass fillet welds > 5/16"	N	C		TA 1	AWS-CWI	Y
4) Single-pass fillet welds < 5/16"	Y	P		N/A	AWS-CWI	N/A
5) Floor and deck welds.	N	P		AWS D1.3	N/A	AWS-CWI
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:						
a. Details such as bracing and stiffening.	Y	P		SI 1	PE/SE or EIT	Y
b. Member locations.	Y	P		SI 1	PE/SE or EIT	Y
c. Application of joint details at each connection.	Y	P		SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspection Services

FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification	Y	P & S S	Fabricator shall submit one of the two qualifications	SI 1	PE/SE or EIT	Y
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S	IBC 1704.2.2	SI 1	PE/SE or EIT	Y



R. W. Gillespie & Associates, Inc.

Geotechnical Engineering • Geohydrology • Materials Testing Services

26 January 2012

Cuyler Feagles, AIA
City of Portland, Portland International Jetport
1001 Westbrook Street
Portland, Maine 04102

Subject: Summary Report of Special Inspections
Terminal Enhancement, Portland International Jetport - Phase II
Portland, Maine
RWG&A Project No. 0557-014

Dear Mr. Feagles:

As requested by Turner Construction Company, a summary report of special inspections for Phase II of the subject project has been prepared for your use. Subsequent paragraphs in this letter, which also serves as part of the report, present a general scope of services outline, items of clarification with respect to certain services, and references to appendices containing the material specific special inspections report and test results.

The Phase II portion of the project consisted of constructing a baggage handling area located on level 1 within zones 3 and 4 (*Note: refer to Portland International Jetport plans by Gensler, Inc. dated 26 October 2009, sheets A02.01.03 and A02.01.04*) and an exterior concrete ramp. The baggage handling area is generally located between building lines B.1 to F and 1R to 1U with the exterior ramp located at building line F, between building lines 1R to 1U. R.W. Gillespie & Associates, Inc.'s (RWG&A's) scope of services included the following tasks for the Phase II portion of the Terminal Enhancement project that occurred between 01 October 2011 and 06 January 2012:

Soils Testing: Our construction technology staff conducted in-place density tests of subbase course materials placed against foundations and to support slabs and ramps using nuclear methods in general accordance with ASTM D6938. In-place density results can be found in Appendix A.

R. W. Gillespie & Associates, Inc.

Page 2 of 3

Results were provided verbally to Gorham Sand & Gravel, Inc. or Turner Construction Company and summarized on a weekly basis. Copies were sent to the concerned parties as directed by you.

Concrete Testing: Testing of portland cement concrete included field and laboratory testing for footings, foundation walls and floor slabs for the baggage handling area. Field tests included slump, entrained air content, unit weight and temperature. Four specimens were typically cast for compressive strength testing in the laboratory. Parameters observed to be outside specification limits were reported to on-site representatives from AMEC PLC and Turner Construction Company. Compressive strength was typically determined in the laboratory at 7 days from placement (1 cyl.) and 28 days (2 cyl.). A fourth cylinder was held for testing at 56 days, if needed. Reports were sent within a day or two of the laboratory test and included related field data; see Appendix B. Note that the final 28 day compressive strength tests for the final placement have not occurred yet, however design strength was reached at 7 days.

Structural Steel: Beam splice bolted connections and fillet welds were observed by RWG&A in zone 3, level 3 at building line 1X, from line F to D, at line 1W, from lines F to D, and at line V, from line F to D. Visual inspections were performed by an RWG&A Certified Welding Inspector (CWI). These services were in general accordance with the project specifications and AWS D1.1-2006 "Structural Welding Code - Steel". Bolted connections were inspected in general accordance with the project specifications and AISC-ASD 9th ed. part 5. Report copies were sent to the concerned parties as directed by you and can be found in Appendix C.

Fireproofing: An RWG&A senior construction technologist made thickness measurements of spray-applied fire resistant material applied to decking level 1 and 2 between zones 3 and 4 from building lines 1Y to 1R and C.4 to F. Report copies were sent to the concerned parties as directed by you and can be found in Appendix D.

Test results and associate reports were reviewed during the construction process and were sent to the City of Portland and other project team members on a regular basis. The attached appendices include pertinent information and are as follows:

- Appendix A - In-Place Density of Soils
- Appendix B - Concrete
- Appendix C - Structural Steel
- Appendix D - Fireproofing

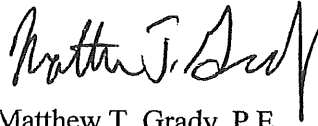
R. W. Gillespie & Associates, Inc.

Page 3 of 3

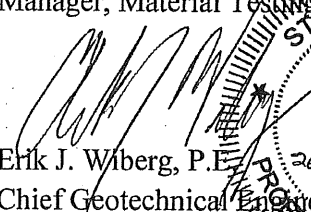
Our review of the results of materials tested by RWG&A indicate that they were in general accordance with the project plans and specification.

If you have any questions or we may be of further assistance please contact us.

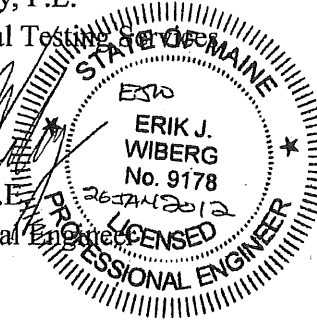
Very truly yours,
R. W. GILLESPIE & ASSOCIATES, INC.



Matthew T. Grady, P.E.
Manager, Material Testing Services



Erik J. Wiberg, P.E.
Chief Geotechnical Engineer



MTG/EJW:md

cc: Michael A. Fusco, Turner Construction Company (via e-mail only)

G:\PROJECTS\0500\0557\557-014\Reports\2012-01-25 Summary Report of Special Inspections 0557-014.wpd

R. W. Gillespie & Associates, Inc.

APPENDIX A

IN-PLACE DENSITY OF SOILS

Summary Report of Special Inspections
Terminal Enhancement, Portland International Jetport - Phase II
Portland, Maine

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: November 7, 2011
 Technician: MJK
 Gauge Model/Serial Number: L497

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11748	Type D Gravel	133.6	6.4

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	West Side of Outer Foundation Wall - North End	TOW - 4'	131.9	5	99	11748
2	West Side of Outer Foundation Wall - South End	TOW - 4'	127.1	4	95	11748
3	East Side Outer Foundation Wall - Center	TOW - 4'	133.8	4	100+	11748
4	West Side Inner Foundation Wall - North End	TOW - 3'	126.3	4	95	11748
5	East Side Inner Foundation Wall - Center	TOW - 4'	129.4	6	97	11748
6	West Side of Outer Foundation Wall - South End	TOW - 3'	126.6	6	95	11748
7	West Side of Outer Foundation Wall - North End	TOW - 3'	130.0	4	97	11748
8	East Side Outer Foundation Wall - Center	TOW - 3'	128.9	5	97	11748
10	East Side Inner Foundation Wall - Center	TOW - 3'	130.2	6	98	11748

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

557-14

Portland International
Jetport
3001 Westwood Street
Portland, Maine 04103

Gensler

BBST ASSOCIATES, INC.
ARCHITECTS - INTERIORS - LANDSCAPE ARCHITECTS



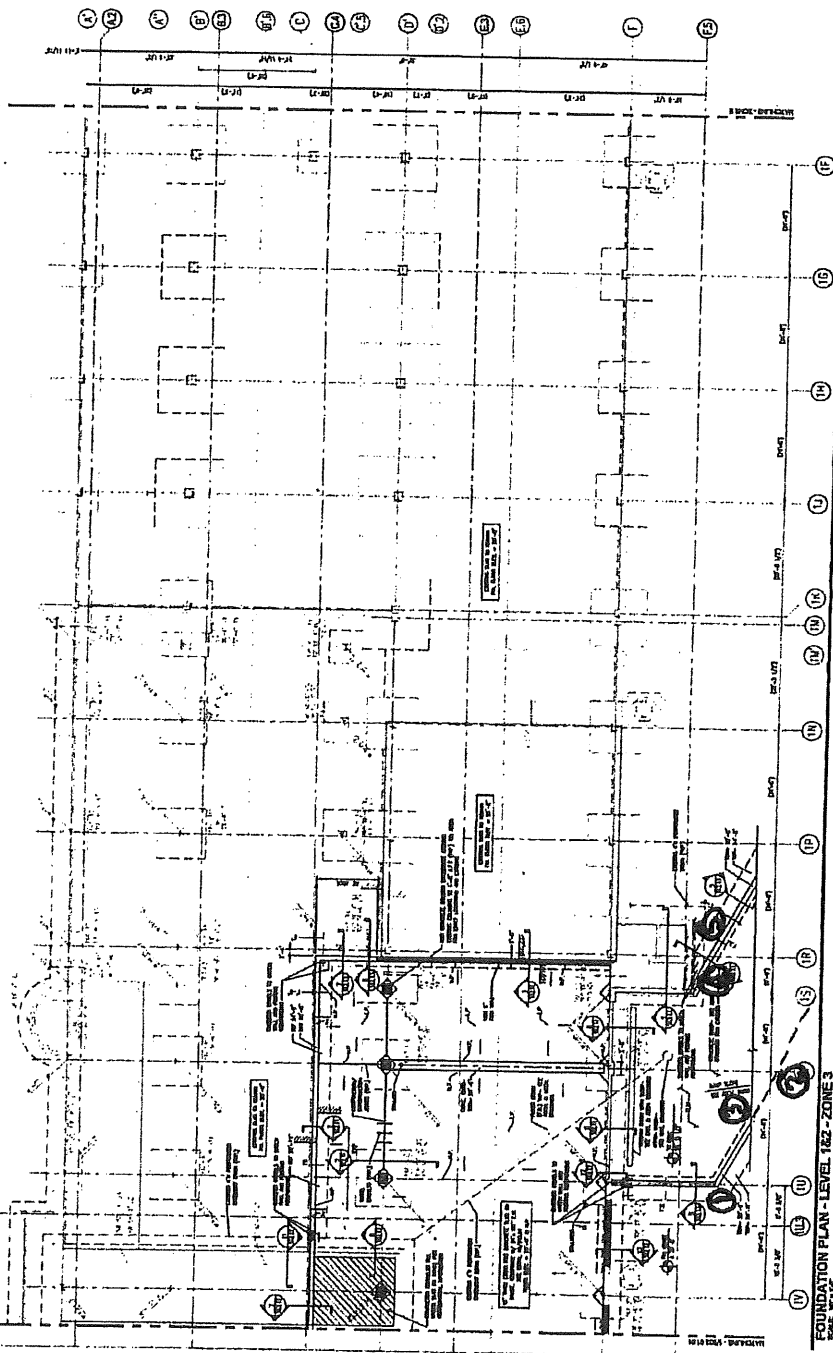
S02.01.03

SHEET NOTES
1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

GENERAL NOTES
1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

KEY PLAN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Project: Jetport
: 557-14
DATE: 11/7/11
TECH: MJK
⑤ 110 LOCATION



FOUNDATION PLAN - LEVEL 1E2 - ZONE 3

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: November 9, 2011
 Technician: MJK
 Gauge Model/Serial Number: L497

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11784	Type D Gravel	133.6	6.4

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Outside West Foundation Wall - South End	FG - 4"	126.3	3	95	11748
2	Outside West Foundation Wall - North End	FG - 4"	130.8	4	98	11748

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:



557-14

Portland International
Jetport
1801 Washington Street
Portland, Maine 04102

Genster

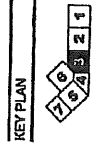
QUEST ASSOCIATES, INC.
Engineers, Architects, Planners, Environmental Scientists



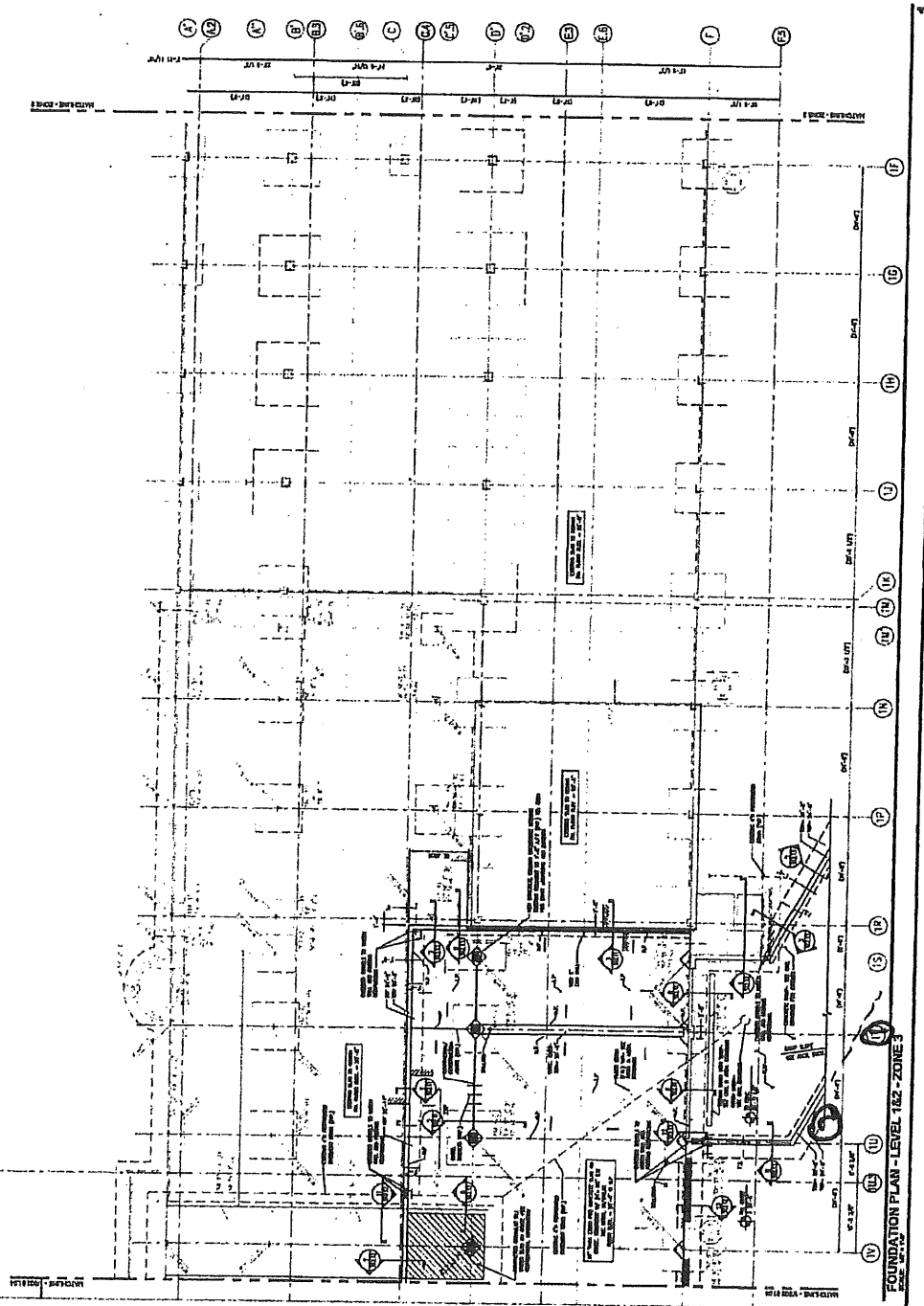
Scale: 1/4" = 1'-0"
S02.01.03

SHEET NOTES
1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

GENERAL NOTES
1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.



PROJECT: JETPORT
#: 557-14
TECH: MSK
DATE: 11/9/00
② HP LOCATION



FOUNDATION PLAN - LEVEL 1&2 - ZONE 3

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: November 22, 2011
 Technician: Marco Stone
 Gauge Model/Serial Number: 05697

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	128.6	8
11784	Type D Gravel	133.6	6

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Interior Chocolate Ramp Phase 2 East End	TOW - 1.3'	129.5	5	97	11784
2	Interior Chocolate Ramp Phase 2 West End	TOW - 3'	128.2	6	96	11784

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

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL AIRPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 0557-014

Client: City of Portland
 Test Date: November 28, 2011
 Technician: Michael Kramlich
 Gauge Model/Serial Number: L500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11748	Poorly graded sand with gravel	133.6	6

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Gate 6 - Interior ramp west side	FG-1'	129.5	3	97	11748
2	Gate 6 - Interior ramp east side	FG	126.5	4	95	11748
3	Gate 6 - Interior ramp west side	FG	130.3	4	98	11748

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: 

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

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL AIRPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 0557-014

Client: City of Portland
 Test Date: December 2, 2011
 Technician: Michael Kramlich
 Gauge Model/Serial Number: L244

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11748	Poorly graded sand with gravel	133.6	6

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Ramp at gates - Top (south end)	FG-1'	130.7	5	98	11748
2	Ramp at gates - Bottom (north end)	FG-1'	129.3	4	97	11748
3	Outside north foundation wall - Ramp	FG-1'	127.2	5	95	11748

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:



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

R. W. Gillespie & Associates, Inc.

APPENDIX B

CONCRETE

Summary Report of Special Inspections
Terminal Enhancement, Portland International Jetport - Phase II
Portland, Maine

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	31-Oct-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Rear Discharge	Design Strength:	4500 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Footings - Loading Ramp, Gate 5

Test Cylinder Location: SW Arm of Footing @ Bend

NOV 29 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	2	Slump (in)	ASTM C 143		3.75
Ticket No.	190878	Air (°F)			49
Truck No.	101	Concrete (°F)			56
Cubic Yds.	10	Air Content (%)	ASTM C 231		4.2

	Batched @	2:03 PM
	Arrived @	2:20 PM
	Total Time	60 ±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 1-Nov-11

Condition of Cylinders: Good

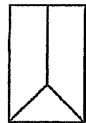
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69697	7-Nov-11	4.018	12.68	7	62260	4910	2
69698	28-Nov-11	4.025	12.72	28	81750	6420	2
69699	28-Nov-11	4.025	12.72	28	82050	6450	2
69700	HOLD			H			

*Concrete compressive strength by ASTM C 39

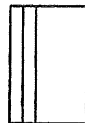
Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
2	190879	101	10	--	49	--	--	60±
3	190880	85	10	--	49	--	--	--

Remarks:

Checked by: Mathew T. Grady
 Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport
Project No: 0557-014
Weather Conditions: Sunny
Method of Placement: Rear Discharge
Admixtures: Glenlum 7500
Placement Location: Underpinning - Existing Stairwell - Gate 5
Test Cylinder Location: Under Pinning - Existing Stairwell - Gate 5

Date Cylinders Cast: 1-Nov-11
Concrete Supplier: Auburn Concrete
General Contractor: Turner
Design Strength: 4000 PSI
Max. Aggregate Size: 3/4 In.

NOV 30 2011

Date Report Issued:

4x8 Cylinders	5	Cast By	Matt A O'Connor		Time	
Load No.	1	Slump (in)	ASTM C 143	6.0	Batched @	1:55 PM
Ticket No.	190890	Air (°F)		65	Arrived @	2:20 PM
Truck No.	78	Concrete (°F)		67	Total Time	100 ±
Cubic Yds.	3	Air Content (%)	ASTM C 231	6.8		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 2-Nov-11
Condition of Cylinders: Good

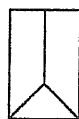
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69701	4-Nov-11	4.008	12.62	3	41000	3250	5
69702	8-Nov-11	4.012	12.64	7	48630	3850	3
69703	29-Nov-11	4.020	12.69	28	80550	6350	2
69704	29-Nov-11	4.020	12.69	28	79705	6280	5
69705	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)

Remarks: Curing temperatures: High = 68°, Low = 42°

Checked by: Matthew T. Grady
 MAT Matthew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	2-Nov-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Sunny	General Contractor:	Turner Construction
Method of Placement:	Rear Discharge	Design Strength:	4500 PSI
Admixtures:	Micro Air, Glenium 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Fnd. Walls - Ramp, Gate S

Test Cylinder Location: Western Wall, From Exist. Terminal - 15' South of Bend

DEC 01 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich		Time	
Load No.	1	Slump (In)	ASTM C 143	4.5		Batched @ 12:16 PM
Ticket No.	190898	Air (°F)		52		Arrived @ 12:35 PM
Truck No.	78	Concrete (°F)		58		Total Time 90 ±
Cubic Yds.	8.5	Air Content (%)	ASTM C 231	4.5		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 3-Nov-11
Condition of Cylinders: Good

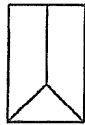
Lab No.	Test Date	Ave Dia (In)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69714	9-Nov-11	4.009	12.62	7	56240	4460	6
69715	30-Nov-11	4.007	12.61	28	78555	6230	6
69716	30-Nov-11	4.007	12.61	28	84930	6730	2
69717	HOLD			H			

*Concrete compressive strength by ASTM C 39

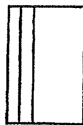
Types of Breaks



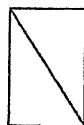
Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
2	190899	84	8.5	—	52	—	—	*110±

Remarks: Curing temperatures: High = 62°, Low = 46°
 *Time on load 2 was okayed by Ryan Dixon.

Checked by: Mathew T. Grady
 Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport **Date Cylinders Cast:** 3-Nov-11
Project No: 0557-014 **Concrete Supplier:** Auburn Concrete
Weather Conditions: Sunny **General Contractor:** Turner
Method of Placement: Rear Discharge **Design Strength:** 4000 PSI
Admixtures: Glenium 7500, Micro Air **Max. Aggregate Size:** 3/4 in.

Placement Location: Stair Underpinning Between Gates 5+6

Test Cylinder Location: Stair Underpinning Between Gates 5+6

Date Report Issued: DEC 02 2011

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	1	Slump (in)	ASTM C 143	6.0	Batched @ 1:12 PM
Ticket No.	191762	Air (°F)		53	Arrived @ 1:35 PM
Truck No.	97	Concrete (°F)		65	Total Time 60 ±
Cubic Yds.	2.5	Air Content (%)	ASTM C 231	-	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 4-Nov-11
Condition of Cylinders: Good

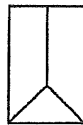
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69722	10-Nov-11	4.018	12.68	7	58420	4610	2
69723	1-Dec-11	4.015	12.66	28	77475	6120	2
69724	1-Dec-11	4.015	12.66	28	74875	5910	2
69725	HOLD			H			

*Concrete compressive strength by ASTM C 39

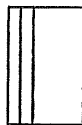
Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)

Remarks: Curing temperatures: High = 78°, Low = 60°

Checked by: Mathew T. Grady
 For Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	7-Nov-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Rear Discharge	Design Strength:	3000 PSI
Admixtures:	Micro Air, Glenlum 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Stair Underpinning Between Gates 5+6

Test Cylinder Location: Stair Underpinning Between Gates 5+6

DEC 06 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	1	Slump (in)	ASTM C 143	4.0	Batched @ 7:56 AM
Ticket No.	191782	Air (°F)		39	Arrived @ 8:20 AM
Truck No.	78	Concrete (°F)		54	Total Time 85 ±
Cubic Yds.	3	Air Content (%)	ASTM C 231	-	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 8-Nov-11

Condition of Cylinders: Good

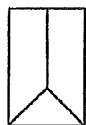
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69762	14-Nov-11	4.014	12.65	7	69575	5500	2
69763	5-Dec-11	4.009	12.62	28	91155	7220	2
69764	5-Dec-11	4.009	12.62	28	90185	7140	5
69765	HOLD			H			

*Concrete compressive strength by ASTM C 39

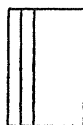
Types of Breaks



Cone
1



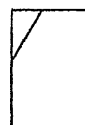
Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)

Remarks: Curing temperatures: High = 72°, Low = 52°

Checked by: Mathew T. Grady
Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport **Date Cylinders Cast:** 11-Nov-11
Project No: 0557-014 **Concrete Supplier:** Auburn Concrete
Weather Conditions: Overcast **General Contractor:** Turner Construction
Method of Placement: Pump **Design Strength:** 4000 PSI
Admixtures: Glenium 7500 **Max. Aggregate Size:** 3/4 in.

Placement Location: Footings Line B.6 & 1Y To 1W + 10', Line C.4 & 1Y To 1W + 10', Line C.4 & 1U.5 To 1R

Test Cylinder Location: Footing Line C.4, 1W + 5'

DEC 09 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Matt T Grady	Time	
Load No.	2	Slump (in)	ASTM C 143	5.0	Batched @ 12:14 PM
Ticket No.	192097	Air (°F)		55	Arrived @ 1:25 PM
Truck No.	84	Concrete (°F)		63	Total Time 91 ±
Cubic Yds.	7.5	Air Content (%)	ASTM C 231	6.6	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 3

Date Received: 14-Nov-11

Condition of Cylinders: Good

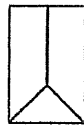
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69830	18-Nov-11	4.013	12.65	7	47185	3730	2
69831	9-Dec-11	4.014	12.65	28	72420	5720	2
69832	9-Dec-11	4.014	12.65	28	75780	5990	2
69833	HOLD			H			

*Concrete compressive strength by ASTM C 39

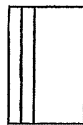
Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
1	191827	116	10	*5.5	--	--	--	71
3	192098	116	7.5	*5.0	--	--	--	46

Remarks: *Slump taken visually.

Checked by: 
 For Mathew T. Grady, Manager of MTS

Project: Terminal Enhancement - Portland International Jetport
 Project No.: 557-14
 Date: 11/11/11
 Technologist: M.T.G.

Portland International
 Jetport
 1300 Westwood Street
 Portland, Maine 04102

Gensler
 Gensler
 1000 Massachusetts Avenue
 Boston, MA 02118

SHEET NOTES

1. ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
15. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

MEET ASSOCIATES, INC.
 1000 Massachusetts Avenue
 Boston, MA 02118

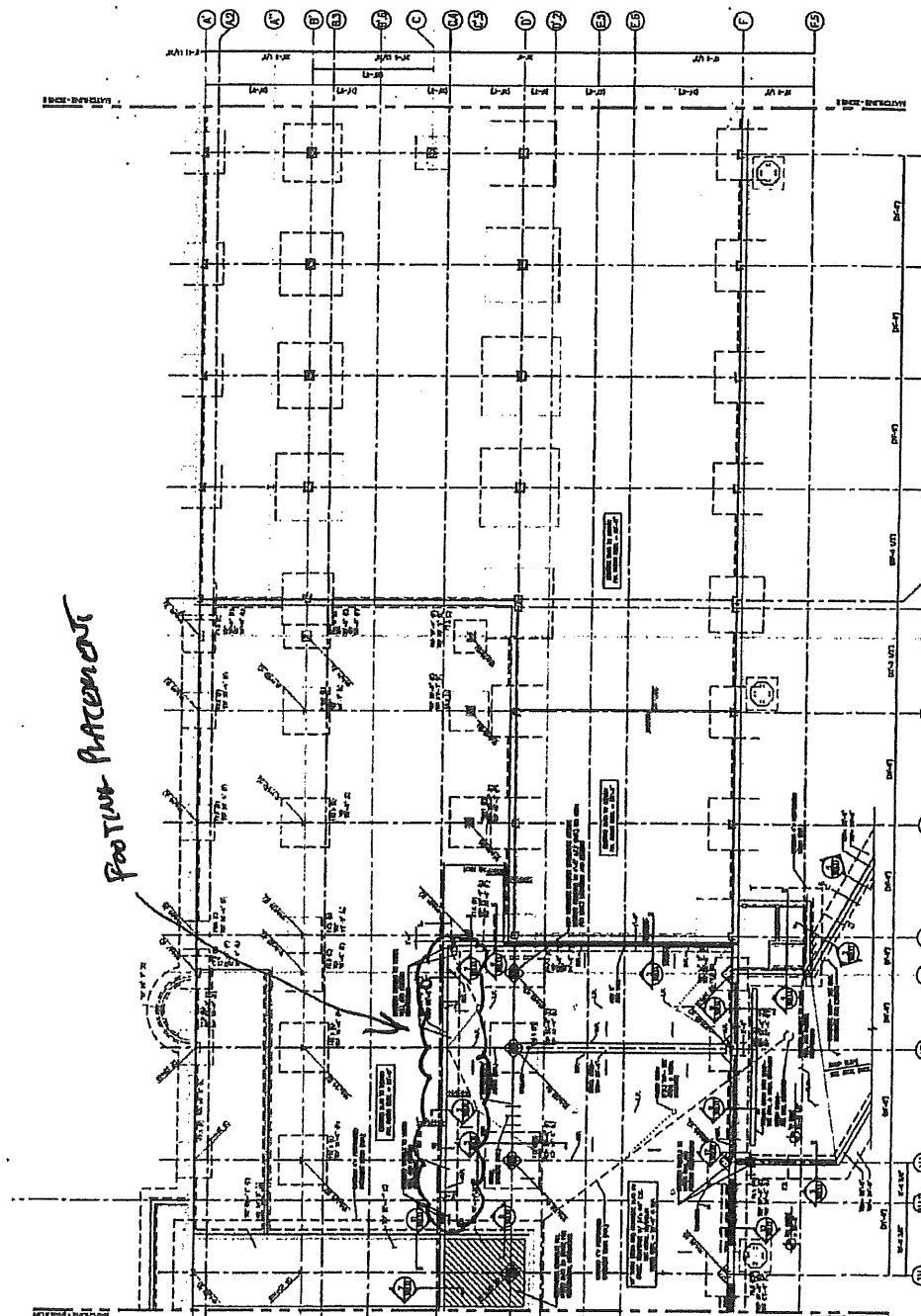
GENERAL NOTES

1. ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
15. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

KEY PLAN

Scale: 1/8" = 1'-0"

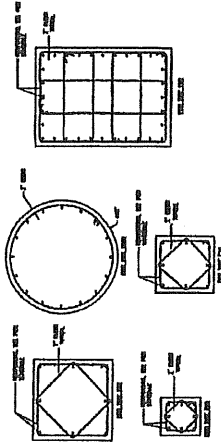
Sheet No. S02.01.03



FOUNDATION PLAN - LEVEL 1&2 - ZONE 3

Project: Terminal Enhancement - Portland International Jetport
 Project No.: 557-14
 Date: 11/11/00
 Technologist: _____

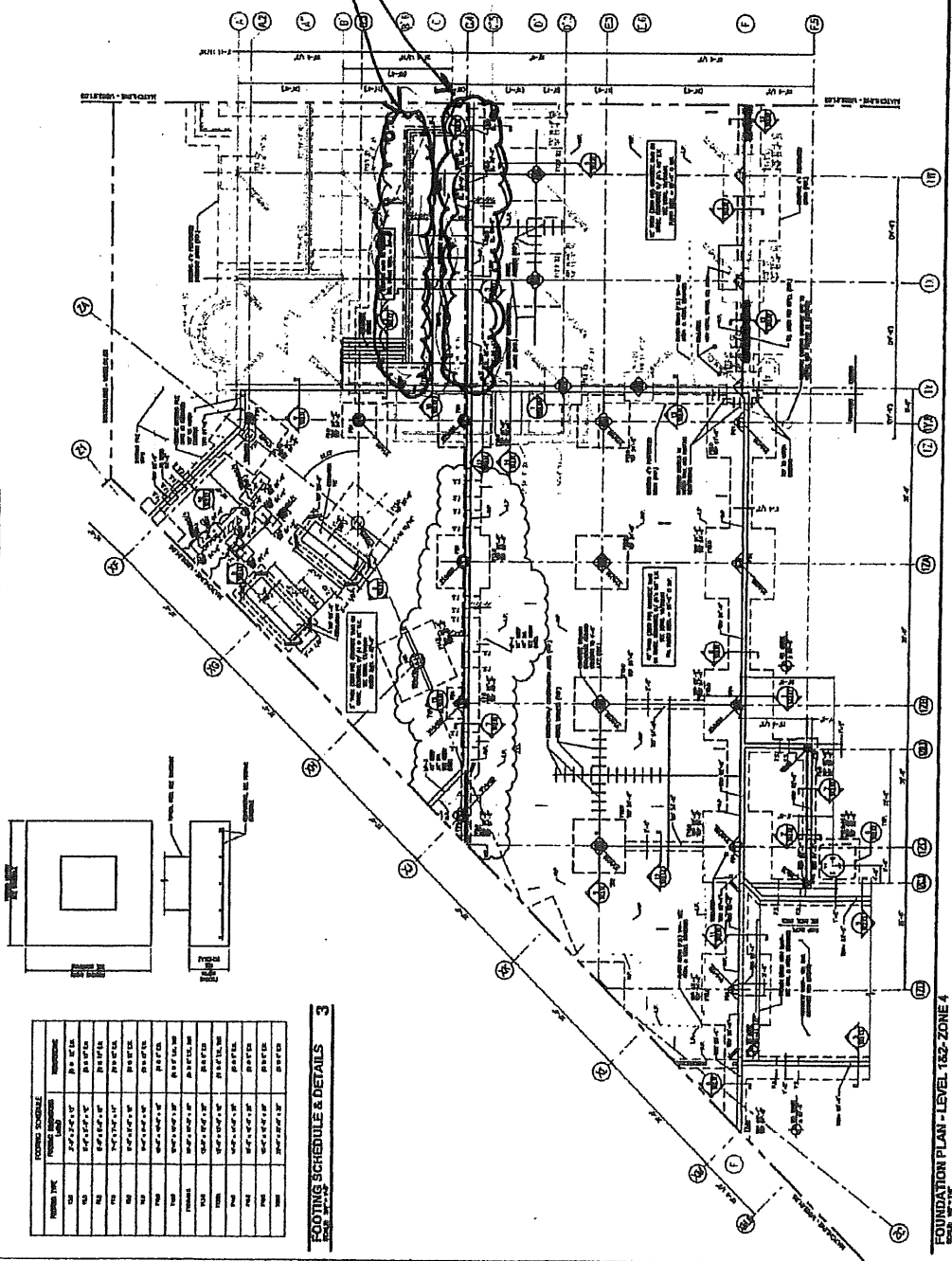
NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR PERMITS			
2	ISSUED FOR CONSTRUCTION			
3	ISSUED FOR RECORD			
4	ISSUED FOR AS-BUILT			



FOOTING SCHEDULE & DETAILS

FOOTING TYPE	FOOTING SCHEDULE	REMARKS
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	
26	26	
27	27	
28	28	
29	29	
30	30	
31	31	
32	32	
33	33	
34	34	
35	35	
36	36	
37	37	
38	38	
39	39	
40	40	
41	41	
42	42	
43	43	
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	
61	61	
62	62	
63	63	
64	64	
65	65	
66	66	
67	67	
68	68	
69	69	
70	70	
71	71	
72	72	
73	73	
74	74	
75	75	
76	76	
77	77	
78	78	
79	79	
80	80	
81	81	
82	82	
83	83	
84	84	
85	85	
86	86	
87	87	
88	88	
89	89	
90	90	
91	91	
92	92	
93	93	
94	94	
95	95	
96	96	
97	97	
98	98	
99	99	
100	100	

FOOTING SCHEDULE & DETAILS 3



FOUNDATION PLAN - LEVEL 1&2 - ZONE 4

Portland International Jetport
 1001 Washington Street
 Portland, Maine 04102

Gensler

BBST ASSOCIATES, INC.
 1001 Washington Street
 Portland, Maine 04102

SHEET NOTES

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
2. ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS TO FINISH UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS TO EXIST UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS TO PROPOSED UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS TO FINISH UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS TO EXIST UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS TO PROPOSED UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
2. ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS TO FINISH UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS TO EXIST UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS TO PROPOSED UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS TO FINISH UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS TO EXIST UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS TO PROPOSED UNLESS OTHERWISE NOTED.

KEY PLAN

1 2 3 4 5 6 7 8 9 10 11

S02.01.04

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	16-Nov-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Overcast	General Contractor:	Turner
Method of Placement:	Rear Discharge	Design Strength:	4000 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Footing Extensions Along F Line

Test Cylinder Location: Footing Extensions Along F Line

DEC 14 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Matt A O'Connor	Time	
Load No.	1	Slump (in)	ASTM C 143		Batched @ 1:55 PM
Ticket No.	192120	Air (°F)			Arrived @ 2:15 PM
Truck No.	78	Concrete (°F)			Total Time 70 ±
Cubic Yds.	7	Air Content (%)	ASTM C 231		
			4.25		
			57		
			63		
			4.9		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 17-Nov-11

Condition of Cylinders: Good

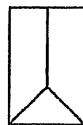
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69866	23-Nov-11	4.019	12.69	7	48600	3830	2
69867	14-Dec-11	4.025	12.72	28	78750	6190	5
69868	14-Dec-11	4.025	12.72	28	82995	6520	2
69869	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)

Remarks:

Checked by: Mathew T. Grady
 MTC Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	17-Nov-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Overcast	General Contractor:	Turner Construction
Method of Placement:	Pump	Design Strength:	4000 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 In.
Placement Location:	Baggage Claim Foundation Walls - Zone 3 & 4; C.4/1R to 1Y, Line B.6/1W + 10' to 1Y		
Test Cylinder Location:	Foundation - C.4/1X		

DEC 15 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Matt T Grady	Time
Load No.	2	Slump (In)	ASTM C 143	6.25
Ticket No.	192124	Air (°F)		50
Truck No.	85	Concrete (°F)		58
Cubic Yds.	10	Air Content (%)	ASTM C 231	6.2

Batched @ 12:51 PM
 Arrived @ 1:15 PM
 Total Time 69 ±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 18-Nov-11
Condition of Cylinders: Good

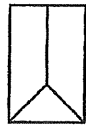
Lab No.	Test Date	Ave Dia (In)	Ave Area (In ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69885	28-Nov-11	4.025	12.72	11	53595	4210	5
69886	15-Dec-11	4.020	12.69	28	68445	5390	2
69887	15-Dec-11	4.020	12.69	28	69850	5500	5
69888	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



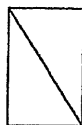
Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
1	--	--	11	--	--	--	--	--
3	192126	86	10	*5.5	--	--	--	--
**4	--	--	--	--	--	--	--	--

Remarks: *Visual slump.
**Balance load added.

Checked by:
Mathew T. Grady, Manager of MTS

Project: Terminal Enhancement - Portland International Jetport

Project No.: 557-14

Date: 11/17/11

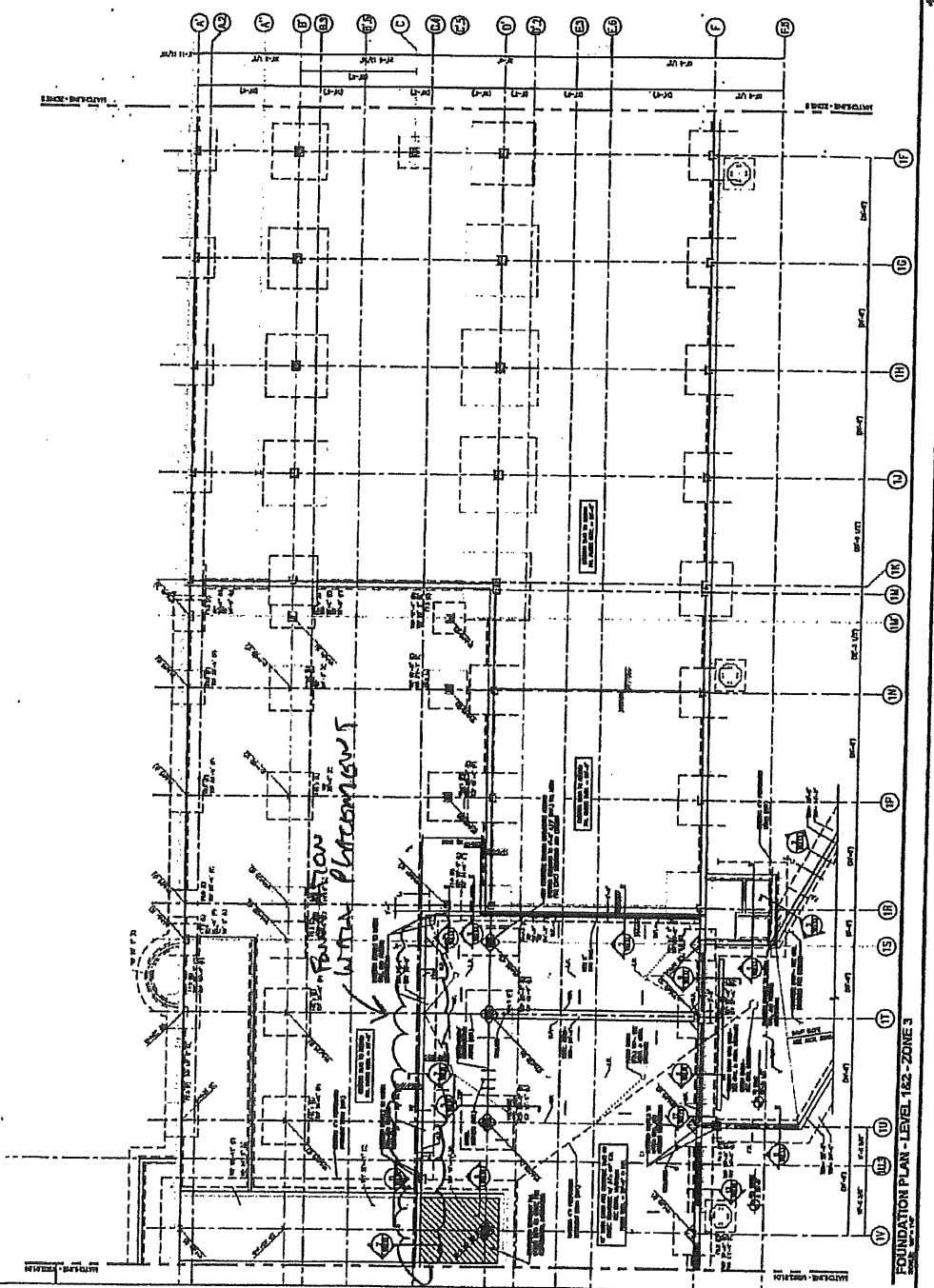
Technologist: MJB

SHEET NOTES

- 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
- 2. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
- 3. ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE ROAD UNLESS OTHERWISE NOTED.
- 5. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE RAILROAD UNLESS OTHERWISE NOTED.
- 6. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT TAXIWAY UNLESS OTHERWISE NOTED.
- 7. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT RUNWAY UNLESS OTHERWISE NOTED.
- 8. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT PAVEMENT UNLESS OTHERWISE NOTED.
- 9. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT ASPHALT UNLESS OTHERWISE NOTED.
- 10. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT CONCRETE UNLESS OTHERWISE NOTED.
- 11. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT GRAVEL UNLESS OTHERWISE NOTED.
- 12. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT SAND UNLESS OTHERWISE NOTED.
- 13. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT SOIL UNLESS OTHERWISE NOTED.
- 14. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT GRADE UNLESS OTHERWISE NOTED.

Portland International
Jetport
3301 Westbrook Street
Portland, Maine 04106

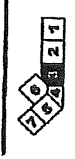
Gensler
ASSIST ASSOCIATES, INC.



GENERAL NOTES

- 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
- 2. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
- 3. ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE ROAD UNLESS OTHERWISE NOTED.
- 5. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE RAILROAD UNLESS OTHERWISE NOTED.
- 6. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT TAXIWAY UNLESS OTHERWISE NOTED.
- 7. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT RUNWAY UNLESS OTHERWISE NOTED.
- 8. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT PAVEMENT UNLESS OTHERWISE NOTED.
- 9. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT ASPHALT UNLESS OTHERWISE NOTED.
- 10. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT CONCRETE UNLESS OTHERWISE NOTED.
- 11. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT GRAVEL UNLESS OTHERWISE NOTED.
- 12. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT SAND UNLESS OTHERWISE NOTED.
- 13. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT SOIL UNLESS OTHERWISE NOTED.
- 14. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE AIRCRAFT GRADE UNLESS OTHERWISE NOTED.

KEY PLAN



Sheet No. 1
Scale: 1/4" = 1'-0"
S02.01.03

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	6-Dec-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3000 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Interior Slab on Grade Gate 5: 1R-1Y / C.4-F

Test Cylinder Location: Set #1: Approx. 1X / E.6

JAN 04 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	2	Slump (in)	ASTM C 143		4.0
Ticket No.	197593	Air (°F)		Batched @	7:43 AM
Truck No.	119	Concrete (°F)		Arrived @	8:10 AM
Cubic Yds.	10	Air Content (%)	ASTM C 231	Total Time	60 ±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 7-Dec-11

Condition of Cylinders: Good

Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69963	13-Dec-11	4.022	12.70	7	31340	2470	4
69964	3-Jan-12	4.019	12.69	28	66895	5270	2
69965	3-Jan-12	4.019	12.69	28	66790	5260	2
69966	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
1	197592	118	10	--	--	--	--	65±
3	197594	116	10	--	--	--	--	--
4	197595	84	10	--	--	--	--	--
5	197597	85	10	--	--	--	--	--
6	197599	102	10	--	--	--	--	--

Remarks: Total loads = 30

Checked by:
 For Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport **Date Cylinders Cast:** 6-Dec-11
Project No: 0557-014 **Concrete Supplier:** Auburn Concrete
Weather Conditions: Rain **General Contractor:** Turner
Method of Placement: Pump **Design Strength:** 3000 PSI
Admixtures: Glenium 7500 **Max. Aggregate Size:** 3/4 in.

Placement Location: Interlor Slab on Grade Gate 5: 1R-1Y / C.4-F

Test Cylinder Location: Set #2: NE of 1W / D

JAN 04 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	7	Slump (in)	ASTM C 143	5.0	Batched @ 8:45 AM
Ticket No.	197600	Air (°F)		61	Arrived @ 9:10 AM
Truck No.	98	Concrete (°F)		70	Total Time 45 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231	3.1	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 7-Dec-11

Condition of Cylinders: Good

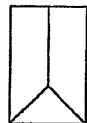
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69967	13-Dec-11	4.022	12.70	7	43330	3410	6
69968	3-Jan-12	4.019	12.69	28	69425	5470	5
69969	3-Jan-12	4.019	12.69	28	66150	5210	2
69970	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
8	197601	99	10	--	--	--	--	--
9	197602	106	10	--	--	--	--	--
10	197603	118	10	--	--	--	--	--

Remarks: Total loads = 30

Checked by: Mathew T. Grady
 Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	6-Dec-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3000 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Interior Slab on Grade Gate 5: 1R-1Y / C.4-F

Test Cylinder Location: Set #3: C.5 / 1V

JAN 04 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	11	Slump (in)	ASTM C 143	5.25	Batched @ 9:15 AM
Ticket No.	197604	Air (°F)		61	Arrived @ 9:30 AM
Truck No.	116	Concrete (°F)		69	Total Time 80 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231	3.4	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 7-Dec-11
Condition of Cylinders: Good

Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69971	13-Dec-11	4.022	12.70	7	37600	2960	6
69972	3-Jan-12	4.019	12.69	28	64420	5080	2
69973	3-Jan-12	4.019	12.69	28	65535	5170	5
69974	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
12	197705	--	10	--	--	--	--	65±
13	197708	101	10	--	--	--	--	--
14	197707	85	10	--	--	--	--	--
15	197708	98	10	--	--	--	--	--
16	197709	99	10	--	--	--	--	--

Remarks: Total loads = 30

Checked by: *Joe Murphy*
For Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

Page 4 of 6

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	6-Dec-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3000 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 In.

Placement Location: Interior Slab on Grade Gate 5: 1R-1Y / C.4-F

Test Cylinder Location: Set #4: 1V / F

JAN 04 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	17	Slump (in)	ASTM C 143		Batched @ 10:35 AM
Ticket No.	197611	Air (°F)			Arrived @ 10:55 AM
Truck No.	106	Concrete (°F)			Total Time 45 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231		
			6.0		
			61		
			71		
			3.9		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 7-Dec-11

Condition of Cylinders: Good

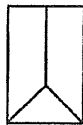
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69975	13-Dec-11	4.022	12.70	7	40290	3170	2
69976	3-Jan-12	4.019	12.69	28	66016	5200	2
69977	3-Jan-12	4.019	12.69	28	69035	5440	2
69978	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
18	197612	118	10	--	--	--	--	65±
19	197613	116	10	--	--	--	--	--
20	197614	84	10	--	--	--	--	--
21	197615	--	10	--	--	--	--	--
22	197616	98	10	--	--	--	--	--

Remarks: Total loads = 30

Checked by:

Matthew T. Grady
For Matthew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	6-Dec-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3000 PSI
Admixtures:	Glenium 7500	Max. Aggregate Size:	3/4 in.

Placement Location: Interior Slab on Grade Gate 5: 1R-1Y / C.4-F

Test Cylinder Location: Set #5: South of 1U / D

JAN 04 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	23	Slump (in)	ASTM C 143		Batched @ 11:52 AM
Ticket No.	197617	Air (%F)			Arrived @ 12:05 PM
Truck No.	106	Concrete (%F)			Total Time 35 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1

Date Received: 7-Dec-11

Condition of Cylinders: Good

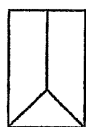
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69979	13-Dec-11	4.022	12.70	7	40025	3150	2
69980	3-Jan-12	4.019	12.69	28	66990	5280	2
69981	3-Jan-12	4.019	12.69	28	67755	5340	2
69982	HOLD			H			

*Concrete compressive strength by ASTM C 39

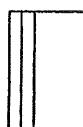
Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
24	197618	118	10	—	—	—	—	30±
25	197619	116	10	—	—	—	—	35±

Remarks: Total loads = 30

Checked by:

Mathew T. Grady
Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES
 86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244
CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport
Project No: 0557-014
Weather Conditions: Rain
Method of Placement: Pump
Admixtures: Glenium 7500

Date Cylinders Cast: 6-Dec-11
Concrete Supplier: Auburn Concrete
General Contractor: Turner
Design Strength: 3000 PSI
Max. Aggregate Size: 3/4 In.

Placement Location: Interior Slab on Grade Gate 5: 1R-1Y / C.4-F

Test Cylinder Location: Set #6: 1T / 10' NE of F

JAN 04 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	27	Slump (In)	ASTM C 143	4.5	
Ticket No.	197621	Air (°F)	68		Batched @ 12:34 PM
Truck No.	78	Concrete (°F)	69		Arrived @ 12:55 PM
Cubic Yds.	10	Air Content (%)	ASTM C 231	3.0	Total Time 40 ±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 7-Dec-11
Condition of Cylinders: Good

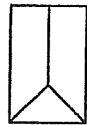
Lab No.	Test Date	Ave Dia (In)	Ave Area (In ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
69983	13-Dec-11	4.022	12.70	7	39375	3100	6
69984	3-Jan-12	4.019	12.69	28	68235	5380	2
69985	3-Jan-12	4.019	12.69	28	66485	5240	2
69986	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
26	197620	84	10	--	--	--	--	40±
28	197622	98	10	--	--	--	--	50±
29	197623	118	10	--	--	--	--	40±
30	197624	116	10	--	--	--	--	45±

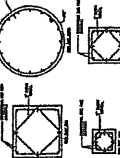
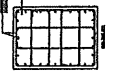
Remarks: Total loads = 30

Checked by: Mathew T. Grady
 Mathew T. Grady, Manager of MTS

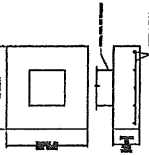
INT. SLAB REINFORCEMENT
TERMINAL EXPANSION

12/6/2011
0557-014
MSK

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	12/6/2011
2	ISSUED FOR CONSTRUCTION	12/6/2011
3	ISSUED FOR AS-BUILT	12/6/2011

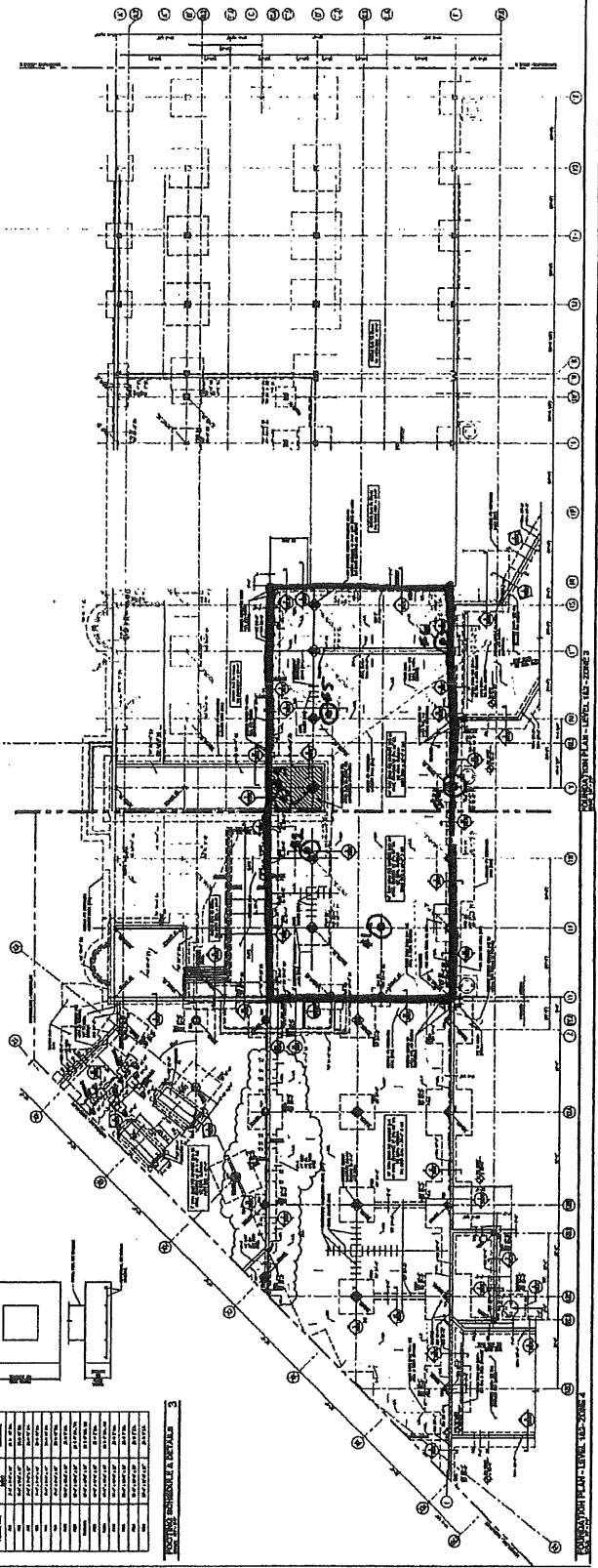


REF. TO SHEET 0557-014-2



NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	12/6/2011
2	ISSUED FOR CONSTRUCTION	12/6/2011
3	ISSUED FOR AS-BUILT	12/6/2011

REF. TO SHEET 0557-014-3



GENERAL NOTES

1. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
2. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
3. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
4. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
5. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
6. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
7. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
8. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
9. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.
10. ALL REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ACI 308 AND 318 CODES.

KEY PLAN

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport **Date Cylinders Cast:** 12-Dec-11
Project No: 0557-014 **Concrete Supplier:** Auburn Concrete
Weather Conditions: Sunny **General Contractor:** Turner
Method of Placement: Pump **Design Strength:** 3500 PSI
Admixtures: Glenium 7500 **Max. Aggregate Size:** 3/8 In.

Placement Location: Interior Ramp :10' E of 1W-1Y / C.4-8' N of D; Side Infills: 1U-1U.3 and 1S-1T/C.5-8' N of D

Test Cylinder Location: Haunches on Ramp and Infill 1S+10' / C.5-8' N of D

JAN 10 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	1	Slump (in)	ASTM C 143	4.5	Batched @ 9:25 AM
Ticket No.	197725	Air (°F)		62	Arrived @ 10:26 AM
Truck No.	119	Concrete (°F)		72	Total Time 115 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231	2.6	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
Date Received: 13-Dec-11
Condition of Cylinders: Good

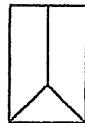
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
70011	19-Dec-11	4.024	12.72	7	48740	3830	5
70012	9-Jan-12	4.014	12.65	28	62260	4920	2
70013	9-Jan-12	4.014	12.65	28	62615	4950	5
70014	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



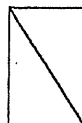
Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
2	197741	118	10	--	--	--	--	60±

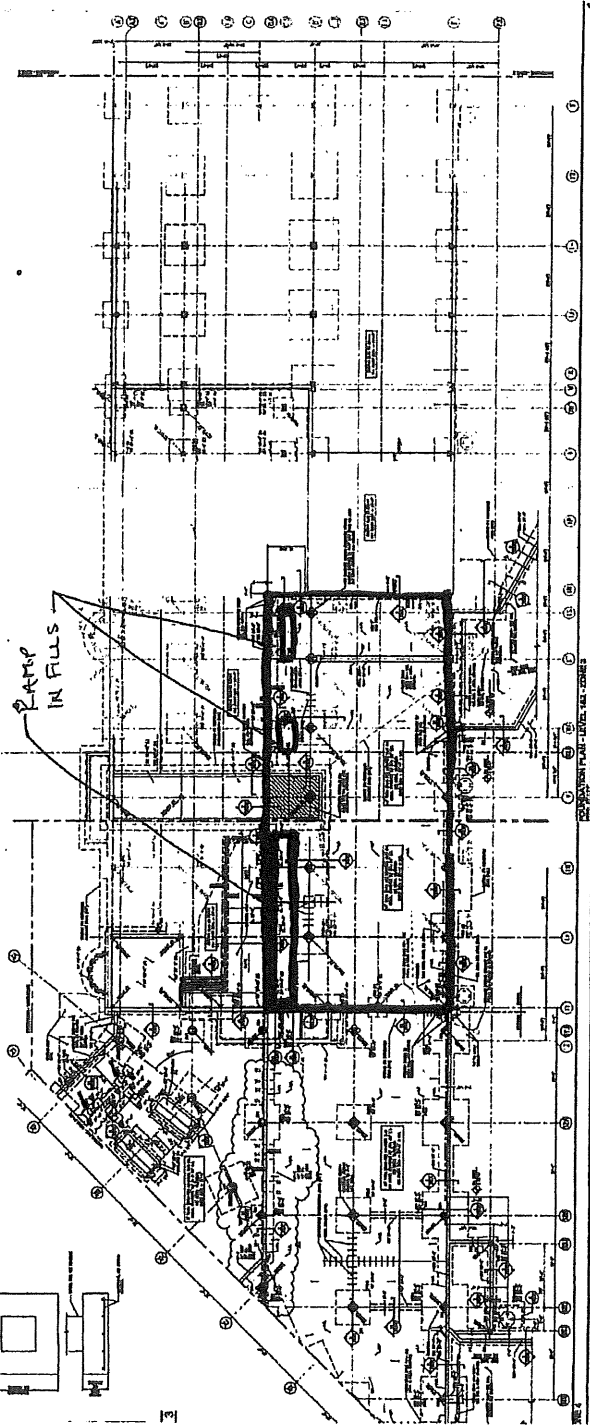
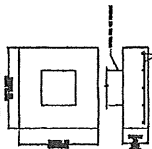
Remarks: Lightweight cylinders stored indoors.

Checked by: Matthew T. Grady
 For Matthew T. Grady, Manager of MTS

CONCRETE PLACEMENT
TERMINAL EXPANSION

12/12/2011
0557-014
MSK

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	12/12/2011	MSK
2	REVISION		
3	REVISION		
4	REVISION		
5	REVISION		
6	REVISION		
7	REVISION		
8	REVISION		
9	REVISION		
10	REVISION		



R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	6-Jan-12
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Snow	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	4500 PSI
Admixtures:	Mid Range Water Reducer, 2% Pozzotec 20	Max. Aggregate Size:	3/4 In.

Placement Location: Gate 5 - Loading Ramp and Surrounding Apron

Test Cylinder Location: Ramp

JAN 13 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	2	Slump (in)	ASTM C 143		Batched @ 7:50 AM
Ticket No.	190933	Air (°F)			Arrived @ 8:05 AM
Truck No.	86	Concrete (°F)			Total Time 60 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 3

Date Received: 9-Jan-12

Condition of Cylinders: Good

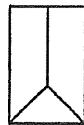
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
70167	13-Jan-12	4.022	12.70	7	70920	5580	2
70168	3-Feb-12			28			
70169	3-Feb-12			28			
70170	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
1	--	--	10	--	23	--	--	70±
3	190935	101	10	--	--	--	--	50±
4	190938	107	10	--	--	--	--	45±
5	190939	108	10	--	--	--	--	70±

Remarks: Total loads = 10

Checked by:
 MTC Mathew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

86 Industrial Park Road, Suite 4, Saco, ME 04072 (207) 286-8008
 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement at the Portland Jetport **Date Cylinders Cast:** 6-Jan-12
Project No: 0557-014 **Concrete Supplier:** Auburn Concrete
Weather Conditions: Snow **General Contractor:** Turner
Method of Placement: Pump **Design Strength:** 4500 PSI
Admixtures: Mid Range Water Reducer, 2% Pozzutec 20 **Max. Aggregate Size:** 3/4 In.

Placement Location: Gate 5 - Loading Ramp and Surrounding Apron

Test Cylinder Location: Apron

JAN 13 2012

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	7	Slump (in)	ASTM C 143	7.5	Batched @ 9:08 AM
Ticket No.	190941	Air (°F)		33	Arrived @ 9:50 AM
Truck No.	116	Concrete (°F)		57	Total Time 70 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231	5.2	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 3

Date Received: 9-Jan-12

Condition of Cylinders: Good

Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
70171	13-Jan-12	4.022	12.70	7	68260	5370	2
70172	3-Feb-12			28			
70173	3-Feb-12			28			
70174	HOLD			H			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (Inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
6	190940	106	10	--	--	--	--	70±
8	190942	86	10	--	--	--	--	70±
9	160945	101	10	--	--	--	--	40±
10	190946	85	7	--	--	--	--	--

Remarks: Total loads = 10

Checked by: Matthew T. Grady
 FOR Matthew T. Grady, Manager of MTS

R. W. Gillespie & Associates, Inc.

APPENDIX C

STRUCTURAL STEEL

Summary Report of Special Inspections
Terminal Enhancement, Portland International Jetport - Phase II
Portland, Maine

R. W. GILLESPIE & ASSOCIATES, INC.
Geotechnical Engineering • Geohydrology • Materials Testing Services

Corporate Office
86 Industrial Park Rd, Ste 4
Portsmouth, NH 03801
207-286-8008 • Fax 207-286-2882



Branch Office
200 International Dr, Ste 170
Portsmouth, NH 03801
603-427-0244 • Fax 603-430-2041

STEEL OBSERVATION REPORT

Project Name: PORTLAND VET PORT Date: 10-20-11
Client/Project #: 557-14 Time on Site: 2.5
General Contractor: TURN CONSTRUCTION Mileage: 30 PM
Welding Contractor: STEAKNS Tolls: 1.40

Approved Documents: RFI 0972-S02, R00997-S12.20, S02-07.04, 24512, 20
Location/Observations: 1X/F-D, 1W/F-D, 1V/P-D

TYPE OF WORK OBSERVED

Bolted Connections: BEAM SPLICE BOLTS
 Visually checked and found complete

Shear Connections: /
 Visually checked and found acceptable

Welded Connections: FIELD WELDS
 Visually checked and found acceptable

Decking (Mezzanine/Roof): /
 Visually checked and found acceptable

Joist Welds/Joist Bridging: /
 Visually checked and found acceptable

Puddle Welds: _____


 Visually checked and found acceptable

Screw Attachments: _____

 Visually checked and found complete

Other: _____

 Visually checked and found acceptable
 Visually checked and found complete

RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.	Observations were verbally reported to: Geoff Mitchell, Turner
	Construction Technologist/CWI: <i>George S Morrell</i> Print Name/Title
	Certification #:  George S Morrell CWI 04050311 QC1 EXP. 5/1/2013

MTL

R. W. Gillespie & Associates, Inc.

APPENDIX D

FIREPROOFING

Summary Report of Special Inspections
Terminal Enhancement, Portland International Jetport - Phase II
Portland, Maine



R. W. GILLESPIE & ASSOCIATES, INC.

Date: 12-19-11

Daily Observation Report

Project: TERMINAL EXPANSION	Time: _____ End Time	Mileage: _____ End
Project No.: 557-14 Tolls: 1.40	_____ Beg. Time	_____ Begin
Per Diem/Lodging: _____	✓ 3.0 Total Time	✓ PV 34 Total

Observations:

In-Place Densities Done _____ All IPDs meet Specifications Reported to _____
 Not all IPDs meet Specifications Reported to _____

Phone Calls:

- ON SITE FOR FIRE PROOFING OF DECKING.
 ACCORDING TO THE FIRE PROOFING INSTALLER,
 THICKNESS REQUIREMENT WAS 1/2".

- I PERFORMED RANDOM THICKNESS CHECKS
 THROUGHOUT THE HIGHLIGHTED AREA. ALL
 RESULTS EXCEED THE 1/2" MINIMUM REQUIREMENT

REFERENCED PLAN SHEET S02.01.03 AND S02.01.04, BUILDING LINES 11 TO 14, C.4 TO F

Reviewed By: **MVC**

Signed: **George Spurdell**

<input type="checkbox"/> HNU _____ day	<input type="checkbox"/> Concrete Equipment	Monitoring Well Supplies
<input type="checkbox"/> Survey Level _____ day	<input type="checkbox"/> Nuc Densometer _____ day	_____ Bags of Bentonite _____ Locks
<input type="checkbox"/> Rebar Meter _____ day	<input type="checkbox"/> Coring Machine _____ Dia.	_____ 5 ft. Screen 2" PVC _____ Caps
_____ Bailers (Disposable)	_____ Inches Cored	_____ 10 ft. Screen 2" PVC _____ Points
<input type="checkbox"/> Water Level Ind. _____ day	<input type="checkbox"/> Generator <input type="checkbox"/> Taylor Rental	_____ 5 ft. Riser 2" PVC _____ Screw Caps
<input type="checkbox"/> Drill Rig _____ day	<input type="checkbox"/> Peristaltic Pump (note tubing used)	_____ 10 ft. Riser 2" PVC
<input type="checkbox"/> Backhoe _____ day	<input type="checkbox"/> Other	_____ Other _____

DEAN & ALLYN, INC.

FIRE PROTECTION • SPECIAL HAZARD

116 LEWISTON ROAD
P.O. BOX 709 • GRAY, ME 04039-0709
TEL: (207) 657.5646 • FAX: (207) 657.5647

February 2, 2012

Turner Construction Company
Two Seaport Lane, 2nd Floor
Boston, MA 02210
Attn: Geoff Mitchell

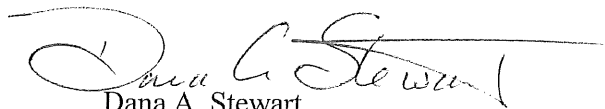
Re: Portland International Jetport Expansion Project
Portland, ME
Fire Protection
Phase 2 Compliance Letter

Dear Geoff,

Dean & Allyn does hereby certify that the Phase 2 fire protection sprinkler system work is installed in strict accordance with NFPA 13-2010, Contract Documents, State of Maine codes, and City of Portland codes.

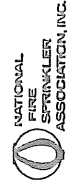
Very truly yours,

Dean & Allyn, Inc.



Dana A. Stewart
Secretary/Treasurer

Contractors Material and Test Certificate for Aboveground Piping



A. Procedure Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners and contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST. PORTLAND ME Date: 2-1-12

B. Plans

- Accepted by Approving Authorities (Names): MSFM D
- Address: ALLGUSTA MAINE Yes No
- Installation conforms to accepted plans Yes No
- Equipment used is approved Yes No

C. Instructions

- Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment Yes No
- Have copies of the following been left on the premises:
 - System components instructions Yes No
 - Care and maintenance instructions Yes No
 - NFPA 25 Yes No

D. Location of system - Supplies building(s): BHS MAINTENANCE

E. Sprinklers 5 LDBBY

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	TY-FRB	2011	1/2	7	155°
TYCO	TY-FRB	2011	1/2	2	200°
TYCO	TY-FRB	2011	1/2	1	286°
TYCO	RFTI	2011	1/2	14	155°

F. Pipe and Fittings BLACK STEEL

1. Type of Pipe: BLACK STEEL

2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
None	Potter & P	0-90	See

H. Dry-Pipe Valve

Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)

Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A

1. Time to trip through test connection*:

2. Water pressure _____ psi. Air pressure _____ psi.

3. Trip point air pressure _____ psi.

4. Time water reached test outlet*:

5. Alarm operated properly Yes No

K. Dry-Pipe System Operating Test With Q.O.D. N/A

1. Time to trip through test connection*:

2. Water pressure _____ psi. Air pressure _____ psi.

3. Trip point air pressure _____ psi.

4. Time water reached test outlet*:

5. Alarm operated properly Yes No

L. Deluge and Preaction Valves

1. Make & Model: N/A

2. Operation: Pneumatic Electric Hydraulic

3. Piping and detecting media supervised Yes No

4. Does valve operate from manual trip and/or remote control stations Yes No

5. Is there an accessible facility in each circuit for testing Yes No

6. Does each circuit operate supervision loss alarm Yes No

7. Does each circuit operate valve release Yes No

8. Maximum time to operate release: _____

M. Pressure Reducing Valve N/A

1. Location and Floor: _____

2. Make and Model: _____

3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi

4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi

5. Flow Rate: _____ gpm

N. Test Description

Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.

Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1 1/2 psi in 24 hrs.

*Measured from the time the inspector's test connection is opened

©2007 National Fire Sprinkler Association, 40 Jon Barrett Road Patterson, NY 12563 (845) 878-4200

□ Check here if comments continue on the reverse side of this form

Form 13-A, Page 1 of 1

O. Tests

1. All piping hydrostatically tested at 200 psi for 2 hours

2. Dry piping pneumatically tested N/A Yes No

3. Equipment operates properly Yes No

4. Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems or stopping leaks? Yes No

5. Drain Test:

a. Static pressure reading of gage located near water supply connection _____ psi.

b. Residual pressure with valve in test connection open wide _____ psi.

6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U Yes No

7. Flushed by installer of underground piping Yes No

8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A Yes No

P. Blank Testing Gaskets 0

1. Number used: _____

2. Locations: _____

3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:

1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards Yes No

2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards Yes No

3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? Yes No

R. Cutouts (Disks)

Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? Yes No

S. Hydraulic Data Nameplate Provided Yes No

T. Date left in service (with all control valves open):

U. Signatures

1. Name of sprinkler contractor: DEAN & ALLEN, INC.

2. Tests witnessed by: A. M. M. M.

For property owner (Signed): _____ Date: 2/1/12

Title: SPRINKLER CONTRACTOR

For sprinkler contractor (Signed): James Dean Date: 2/1/12

Title: Fireman Date: 2/1/12

V. Comments (This section is for additional explanation and notes. All "No" answers must be explained here.)

Contractors Material and Test Certificate for Aboveground Piping



A. Procedure Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners and contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 100 WESTERBROOK ST PORTLAND ME Date: 2/1/12

B. Plans

- Accepted by Approving Authorities (Names): MSFMO
- Address: AUGUSTA, MAINE Yes No
- Installation conforms to accepted plans Yes No

C. Instructions

- Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment Yes No
- Have copies of the following been left on the premises:
 - System components instructions Yes No
 - Care and maintenance instructions Yes No
 - NFPA 25 Yes No

D. Location of system - Supplies building(s): OUTBOUND BAGGAGE

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	TY-FRB	2011	1/2"	135	155°
TYCO	TY-FRB	2011	1/2"	5	200°
TYCO	TY-FRB	2011	1/2"	3	226°

F. Pipe and Fittings BLACK STEEL

- Type of Pipe: BLACK STEEL
- Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate	Through Insp. Test
None	Other	RSR	0-90 Sec	

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*: _____
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____ psi.

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*: _____
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____ psi.

L. Deluge and Preaction Valves N/A
1. Make & Model: _____
2. Operation: Pneumatic Electric Hydraulic

3. Piping and detecting media supervised Yes No
4. Does valve operate from manual trip and/or remote control stations Yes No
5. Is there an accessible facility in each circuit for testing Yes No

6. Does each circuit operate supervision loss alarm Yes No
7. Does each circuit operate valve release Yes No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve N/A
1. Location and Floor: _____
2. Make and Model: _____

3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1 1/2 psi in 24 hrs.

*Measured from the time the inspector's test connection is opened
©2007 National Fire Sprinkler Association, 40 Jon Barrett Road Patterson, NY 12563 (845) 878-4200

O. Tests

- All piping hydrostatically tested at 200 psi for 2 hours
- Dry piping pneumatically tested N/A Yes No
- Equipment operates properly Yes No
- Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems or stopping leaks? Yes No
- Drain Test:
 - Static pressure reading of gage located near water supply connection _____ psi.
 - Residual pressure with valve in test connection open wide _____ psi.
- Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U Yes No
- Flushed by installer of underground piping Yes No
- If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A Yes No

P. Blank Testing Gaskets

- Number used: 0
- Locations: 0
- Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:

- As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards Yes No
- Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards Yes No
- Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? Yes No

R. Cutouts (Disks)

Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? Yes No

S. Hydraulic Data Nameplate Provided Yes No

T. Date left in service (with all control valves open):

U. Signatures

1. Name of sprinkler contractor: DEAN & ALLYN, INC.

2. Tests witnessed by: A. M. JOUR

For property owner (Signed): _____ Date: 2/1/12

Title: Superintendent

For sprinkler contractor (Signed): _____ Date: 2/1/12

Title: Joe Brennan

V. Comments (This section is for additional explanation and notes. All "No" answers must be explained here.)

FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM INSPECTION AND TESTING FORM

*To be completed by the system inspector or tester at the time of the inspection or test.
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.
Insert N/A in all unused lines.
Attach additional sheets, data, or calculations as necessary to provide a complete record.*

Date of this inspection or test: 02-01-12

Time of inspection or test: all day

1. PROPERTY INFORMATION

Name of property: Portland Jetport

Address:

Description of property: Steel and concrete fully sprinkled

Occupancy type: Airport

Name of property representative:

Address: Same

Phone:

Fax:

E-mail:

Authority having jurisdiction over this property: PFD

Phone: 207-874-8517

Fax:

E-mail:

2. INSTALLATION, SERVICE, AND TESTING CONTRACTOR INFORMATION

Service and/or testing organization for this equipment: SimplexGrinnell LP

Address: 20 Thomass dr Westbrook Maine

Phone: 842-6440

Fax:

E-mail:

Service technician or tester: John Hale

Qualifications of technician or tester: SimplexGrinnell LP, MS60019217

A contract for test and inspection in accordance with NFPA standards is in effect as of:

The contract expires:

Contract number:

Frequency of tests and inspections:

6
month

Monitoring organization for this equipment: PFD Dispatch

A contract for test and inspection in accordance with NFPA standards is in effect as of:

Address:

Phone:

Fax:

E-mail:

Entity to which alarms are retransmitted:

Phone:

3. TYPE OF SYSTEM OR SERVICE

Fire alarm system (nonvoice)

Fire alarm with in-building fire emergency voice alarm communication system (EVACS)

Mass notification system (MNS)

Combination system, with the following components:

Fire alarm

EVACS

MNS

Two-way, in-building, emergency communication system

Other (specify): _____

3. TYPE OF SYSTEM OR SERVICE (continued)

NFPA 72 edition: 2010 Additional description of system(s): _____

3.1 Control Unit

Manufacturer: SimplexGrinnell LP

Model number: 4100ES

3.2 Mass Notification System

This system does not incorporate an MNS

3.2.1 System Type:

In-building MNS—combination

In-building MNS—stand-alone Wide-area MNS Distributed recipient MNS

Other (specify): _____

3.2.2 System Features:

Combination fire alarm/MNS MNS ACU only Wide-area MNS to regional national alerting interface

Local operating console (LOC) Direct recipient MNS (DRMNS) Wide-area MNS to DRMNS interface

Wide-area MNS to high-power speaker array (HPSA) interface In-building MNS to wide-area MNS interface

Other (specify): _____

3.3 System Documentation

An owner's manual, a copy of the manufacturer's instructions, a written sequence of operation, and a copy of the record record drawings are stored on site. Location: Fire Alarm Doc Box

3.4 System Software

This system does not have alterable site-specific software.

Software revision number: 1.01.02 Rev 89 Software last updated on: 02-01-12

A copy of the site-specific software is stored on site. Location: Fire Alarm Doc Box

4. SYSTEM POWER

4.1 Control Unit

4.1.1 Primary Power

Input voltage of control panel: 120 Control panel amps: 16

4.1.2 Engine-Driven Generator

This system does not have a generator.

Location of generator: _____

Location of fuel storage: _____ Type of fuel: _____

4.1.3 Uninterruptible Power System

This system does not have UPS.

Equipment powered by a UPS system: _____

Location of UPS system: _____

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): _____ In alarm mode (minutes): _____

4. SYSTEM POWER (continued)

4.1.4 Batteries

Location: panel Type: SLA Nominal voltage: 24 Amp/hour rating: 75 AH

Calculated capacity of batteries to drive the system:

In standby mode (hours): 57.6 In alarm mode (minutes): 15

Batteries are marked with date of manufacture.

4.2 In-Building Fire Emergency Voice Alarm Communication System or Mass Notification System

This system does not have an EVACS or MNS.

4.2.1 Primary Power

Input voltage of EVACS or MNS panel: EVACS or MNS panel amps:

4.2.2 Engine-Driven Generator

This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

4.2.3 Uninterruptible Power System

This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

4.2.4 Batteries

Location: Type: Nominal voltage: Amp/hour rating:

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

Batteries are marked with date of manufacture.

4.3 Notification Appliance Power Extender Panels

This system does not have power extender panels.

4.3.1 Primary Power

Input voltage of power extender panel(s): 120 Power extender panel amps: 12

4.3.2 Engine-Driven Generator

This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

4.3.3 Uninterruptible Power System

This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

4. SYSTEM POWER (continued)

4.3.4 Batteries

Location: Transponder Panels Type: SLA Nominal voltage: 24 Amp/hour rating: 33 AH

Calculated capacity of batteries to drive the system:

In standby mode (hours): 24 In alarm mode (minutes): 15

Batteries are marked with date of manufacture.

5. ANNUNCIATORS

This system does not have annunciators.

5.1 Location and Description of Annunciators

Annunciator 1: West Building by Escillators

Annunciator 2: East Building By Down Escillator

Annunciator 3: _____

6. NOTIFICATIONS MADE PRIOR TO TESTING

Monitoring organization	Contact: <u>PFD</u>	Time: _____
Building management	Contact: <u>Comm Center</u>	Time: _____
Building occupants	Contact: <u>ARF Building</u>	Time: _____
Authority having jurisdiction	Contact: _____	Time: _____
Other, if required	Contact: _____	Time: _____

7. TESTING RESULTS

7.1 Control Unit and Related Equipment

Description	Visual Inspection	Functional Test	Comments
Control unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Additional devices for remodel area
Lamps/LEDs/LCDs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fuses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Trouble signals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Disconnect switches	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Ground-fault monitoring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Supervision	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Local annunciator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Remote annunciators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Power extender panels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Isolation modules	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

NFPA 72, Fig. 14.6.2.4 (p. 4 of 11)

7. TESTING RESULTS (continued)

7.2 Control Unit Power Supplies

Description	Visual Inspection	Functional Test	Comments
120-volt power	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Generator or UPS	<input type="checkbox"/>	<input type="checkbox"/>	
Battery condition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Load voltage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Discharge test	<input type="checkbox"/>	<input type="checkbox"/>	
Charger test	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7.3 In-Building Fire Emergency Voice Alarm Communications Equipment

Description	Visual Inspection	Functional Test	Comments
Control unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Lamps/LEDs/LCDs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fuses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Primary power supply	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Secondary power supply	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Trouble signals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Disconnect switches	<input type="checkbox"/>	<input type="checkbox"/>	
Ground-fault monitoring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Panel supervision	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
System performance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Sound pressure levels Occupied <input type="checkbox"/> Yes <input type="checkbox"/> No Ambient dBA Alarm dBA (attach report with locations, values, and weather conditions)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System intelligibility <input type="checkbox"/> CSI <input type="checkbox"/> STI (attach report with locations, values, and weather conditions)	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7. TESTING RESULTS (continued)

7.4 Notification Appliance Power Extender Panels

Description	Visual Inspection	Functional Test	Comments
Lamps/LEDs/LCDs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fuses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Primary power supply	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Secondary power supply	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Trouble signals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Ground-fault monitoring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Panel supervision	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7.5 Mass Notification Equipment

Description	Visual Inspection	Functional Test	Comments
Functional test	<input type="checkbox"/>	<input type="checkbox"/>	
Reset/power down test	<input type="checkbox"/>	<input type="checkbox"/>	
Fuses	<input type="checkbox"/>	<input type="checkbox"/>	
Primary power supply	<input type="checkbox"/>	<input type="checkbox"/>	
UPS power test	<input type="checkbox"/>	<input type="checkbox"/>	
Trouble signals	<input type="checkbox"/>	<input type="checkbox"/>	
Disconnect switches	<input type="checkbox"/>	<input type="checkbox"/>	
Ground-fault monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
CCU security mechanism	<input type="checkbox"/>	<input type="checkbox"/>	
Prerecorded message content	<input type="checkbox"/>	<input type="checkbox"/>	
Prerecorded message activation	<input type="checkbox"/>	<input type="checkbox"/>	
Software backup performed	<input type="checkbox"/>	<input type="checkbox"/>	
Test backup software	<input type="checkbox"/>	<input type="checkbox"/>	
Fire alarm to MNS interface	<input type="checkbox"/>	<input type="checkbox"/>	
MNS to fire alarm interface	<input type="checkbox"/>	<input type="checkbox"/>	
In-building MNS to wide-area MNS	<input type="checkbox"/>	<input type="checkbox"/>	

7. TESTING RESULTS (continued)

7.5 Mass Notification Equipment (continued)

Description	Visual Inspection	Functional Test	Comments
MNS to direct recipient MNS	<input type="checkbox"/>	<input type="checkbox"/>	
Sound pressure levels Occupied <input type="checkbox"/> Yes <input type="checkbox"/> No Ambient dBA Alarm dBA (attach report with locations, values, and weather conditions)	<input type="checkbox"/>	<input type="checkbox"/>	
System intelligibility <input type="checkbox"/> CSI <input type="checkbox"/> STI (attach report with locations, values, and weather conditions)	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7.6 Two-Way Communications Equipment

Description	Visual Inspection	Functional Test	Comments
Phone handsets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Phone jacks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Off-hook indicator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Call-in signal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
System performance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
System audibility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
System intelligibility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Radio communications enhancement system	<input type="checkbox"/>	<input type="checkbox"/>	
Area of refuge communication system	<input type="checkbox"/>	<input type="checkbox"/>	
Elevator emergency communications system	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7. TESTING RESULTS (continued)

7.7 Combination Systems

Description	Visual Inspection	Functional Test	Comments
Fire extinguishing monitoring devices/system	<input type="checkbox"/>	<input type="checkbox"/>	
Carbon monoxide detector/system	<input type="checkbox"/>	<input type="checkbox"/>	
Combination fire/security system	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7.8 Special Hazard Systems

Description (specify)	Visual Inspection	Functional Test	Comments
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

7.9 Emergency Communications System

- Visual
- Functional
- Simulated operation
- Ensure predischARGE notification appliances of special hazard systems are not overridden by the MNS.
See *NFPA 72*, 24.4.1.7.1.

7.10 Monitored Systems

Description (specify)	Visual Inspection	Functional Test	Comments
Engine-driven generator	<input type="checkbox"/>	<input type="checkbox"/>	
Fire pump	<input type="checkbox"/>	<input type="checkbox"/>	
Special suppression systems	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7. TESTING RESULTS (continued)

7.11 Auxiliary Functions

Description	Visual Inspection	Functional Test	Comments
Door-releasing devices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fan shutdown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Smoke management/smoke control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Smoke damper operation	<input type="checkbox"/>	<input type="checkbox"/>	
Smoke shutter release	<input type="checkbox"/>	<input type="checkbox"/>	
Door unlocking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Elevator recall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Elevator shunt trip	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MNS override of FA signals	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	

7.12 Alarm Initiating Device

Device test results sheet attached listing all devices tested and the results of the testing

7.13 Supervisory Alarm Initiating Device

Device test results sheet attached listing all devices tested and the results of the testing

7.14 Alarm Notification Appliances

Appliance test results sheet attached listing all appliances tested and the results of the testing

7.15 Supervisory Station Monitoring

Description	Visual Inspection	Functional Test	Time	Comments
Alarm signal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Alarm restoration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Trouble signal	<input type="checkbox"/>	<input type="checkbox"/>		
Trouble restoration	<input type="checkbox"/>	<input type="checkbox"/>		
Supervisory signal	<input type="checkbox"/>	<input type="checkbox"/>		
Supervisory restoration	<input type="checkbox"/>	<input type="checkbox"/>		

8. NOTIFICATIONS THAT TESTING IS COMPLETE

Monitoring organization	Contact: PFD	Time:
Building management	Contact:	Time:
Building occupants	Contact:	Time:
Authority having jurisdiction	Contact:	Time:
Other, if required	Contact:	Time:

9. SYSTEM RESTORED TO NORMAL OPERATION

Date: 02-01-12 Time: 1400

10. CERTIFICATION


10.1 Inspector Certification:

This system, as specified herein, has been inspected and tested according to all NFPA standards cited herein.

Signed:  Printed name: John Hale Date: 02-01-12
Organization: SimplexGrinnell LP Title: TR Phone: 842-6440

10.2 Acceptance by Owner or Owner's Representative:

The undersigned has a service contract for this system in effect as of the date shown below.

Signed:  Printed name: GEOFF MITCHELL Date: 2/1/12
Organization: TURNER CONSTRUCTION Title: SUPERINTENDENT Phone: 207-751-9161

Point Name	Device Type	Point Type	Custom Label Description	Test
M1-3-0	ADRPUL	PULL	LVL 1 WEST BY RM 1500E M1-3	PASS
M1-52-0	RIAM	RELAY	LVL 1 WEST FIRE SHUTTER 5 M1-52	PASS
M1-53-0	PHOTO	VSMOKE	LVL 1 WEST FIRE SHUTTER 5 M1-53	PASS
M1-54-0	PHOTO	VSMOKE	LVL 1 WEST FIRE SHUTTER 5 M1-54	PASS
3-1-3	STRB	SPKR/STRB	N3:TPS1:1-1-3	PASS
3-1-4	STRB	SPKR/STRB	N3:TPS1:1-1-4	PASS
3-2-1	STRB	SPKR/STRB	N3:TPS1:2-1-1	PASS
3-2-2	STRB	SPKR/STRB	N3:TPS1:2-1-2	PASS
3-2-3	STRB	SPKR/STRB	N3:TPS1:2-1-3	PASS
3-2-4	STRB	SPKR/STRB	N3:TPS1:2-1-4	PASS
3-2-5	STRB	SPKR/STRB	N3:TPS1:2-1-5	PASS
3-2-6	STRB	SPKR/STRB	N3:TPS1:2-1-6	PASS
3-2-7	STRB	SPKR/STRB	N3:TPS1:2-1-7	PASS
3-3-6	STRB	SPKR/STRB	N3:TPS1:3-1-6	PASS
5-2-7	STRB	SPKR/STRB	N3:TPS3:2-1-7	PASS

Point Name	Device Type	Point Type	Custom Label Description	Test	Date
M1-3-0	ADRPUL	PULL	LVL 1 WEST BY RM 1500E M1-3	PASS	2/1/2012
M1-52-0	RIAM	RELAY	LVL 1 WEST FIRE SHUTTER 5 M1-52	PASS	2/1/2012
M1-53-0	PHOTO	VSMOKE	LVL 1 WEST FIRE SHUTTER 5 M1-53	PASS	2/1/2012
M1-54-0	PHOTO	VSMOKE	LVL 1 WEST FIRE SHUTTER 5 M1-54	PASS	2/1/2012
3-1-3	STRB	SPKR/STRB	N3:TPS1:1-1-3	PASS	2/1/2012
3-1-4	STRB	SPKR/STRB	N3:TPS1:1-1-4	PASS	2/1/2012
3-2-1	STRB	SPKR/STRB	N3:TPS1:2-1-1	PASS	2/1/2012
3-2-2	STRB	SPKR/STRB	N3:TPS1:2-1-2	PASS	2/1/2012
3-2-3	STRB	SPKR/STRB	N3:TPS1:2-1-3	PASS	2/1/2012
3-2-4	STRB	SPKR/STRB	N3:TPS1:2-1-4	PASS	2/1/2012
3-2-5	STRB	SPKR/STRB	N3:TPS1:2-1-5	PASS	2/1/2012
3-2-6	STRB	SPKR/STRB	N3:TPS1:2-1-6	PASS	2/1/2012
3-2-7	STRB	SPKR/STRB	N3:TPS1:2-1-7	PASS	2/1/2012
3-3-6	STRB	SPKR/STRB	N3:TPS1:3-1-6	PASS	2/1/2012
5-2-7	STRB	SPKR/STRB	N3:TPS3:2-1-7	PASS	2/1/2012

FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM RECORD OF COMPLETION

To be completed by the system installation contractor at the time of system acceptance and approval.
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.

Insert N/A in all unused lines.

Attach additional sheets, data, or calculations as necessary to provide a complete record.

1. PROPERTY INFORMATION

Name of property: Portland Jetport
Address:
Description of property: Steel and concrete fully sprinkled
Occupancy type: Airport
Name of property representative:
Address:
Phone: Fax: E-mail:
Authority having jurisdiction over this property: PFD
Phone: 207-874-8517 Fax: E-mail:

2. INSTALLATION, SERVICE, AND TESTING CONTRACTOR INFORMATION

Installation contractor for this equipment: ES Boulos
Address: 45 Bradley DR. Westbrook ME, 04092
License or certification number:
Phone: 207-464-3708 Fax: E-mail:
Service organization for this equipment: SimplexGrinnell
Address: 20 Thomas Dr Westbrook Maine
License or certification number: MS60019217
Phone: 842-6440 Fax: E-mail:
A contract for test and inspection in accordance with NFPA standards is in effect as of:
Contracted testing company:
Address:
Phone: Fax: E-mail:
Contract expires: Contract number: Frequency of routine inspections:

3. DESCRIPTION OF SYSTEM OR SERVICE

- Fire alarm system (nonvoice)
 Fire alarm with in-building fire emergency voice alarm communication system (EVACS)
 Mass notification system (MNS)
 Combination system, with the following components:
 Fire alarm EVACS MNS Two-way, in-building, emergency communication system
 Other (specify):

NFPA 72, Fig. 10.18.2.1.1 (p. 1 of 12)

3. DESCRIPTION OF SYSTEM OR SERVICE (continued)

NFPA 72 edition: 2010 Additional description of system(s):

3.1 Control Unit

Manufacturer: SimplexGrinnell LP Model number: 4100ES

3.2 Mass Notification System [X] This system does not incorporate an MNS

3.2.1 System Type:

- [] In-building MNS—combination
[] In-building MNS—stand-alone [] Wide-area MNS [] Distributed recipient MNS
[] Other (specify):

3.2.2 System Features:

- [] Combination fire alarm/MNS [] MNS autonomous control unit [] Wide-area MNS to regional national alerting interface
[] Local operating console (LOC) [] Direct recipient MNS (DRMNS) [] Wide-area MNS to DRMNS interface
[] Wide-area MNS to high-power speaker array (HPSA) interface [] In-building MNS to wide-area MNS interface
[] Other (specify):

3.3 System Documentation

[X] An owner's manual, a copy of the manufacturer's instructions, a written sequence of operation, and a copy of the numbered record drawings are stored on site. Location: Fire alarm document box

3.4 System Software

[] This system does not have alterable site-specific software.

Operating system (executive) software revision level: 1.01.02 rev 89

Site-specific software revision date: 02-01-12 Revision completed by: JBH

[X] A copy of the site-specific software is stored on site. Location: Fire Alarm Document Box

3.5 Off-Premises Signal Transmission

[] This system does not have off-premises transmission.

Name of organization receiving alarm signals with phone numbers:

Alarm: PFD Dispatch Phone: 207-874-8517

Supervisory: Phone:

Trouble: Phone:

Entity to which alarms are retransmitted: Phone:

Method of retransmission:

If Chapter 26, specify the means of transmission from the protected premises to the supervising station:

If Chapter 27, specify the type of auxiliary alarm system: [] Local energy [] Shunt [] Wired [X] Wireless

4. CIRCUITS AND PATHWAYS

4.1 Signaling Line Pathways

4.1.1 Pathways Class Designations and Survivability

Pathways class: A Survivability level: 2 Quantity: 42
(See NFPA 72, Sections 12.3 and 12.4)

4.1.2 Pathways Utilizing Two or More Media

Quantity: _____ Description: _____

4.1.3 Device Power Pathways

- No separate power pathways from the signaling line pathway
- Power pathways are separate but of the same pathway classification as the signaling line pathway
- Power pathways are separate and different classification from the signaling line pathway

4.1.4 Isolation Modules

Quantity: 3

4.2 Alarm Initiating Device Pathways

4.2.1 Pathways Class Designations and Survivability

Pathways class: _____ Survivability level: _____ Quantity: _____
(See NFPA 72, Sections 12.3 and 12.4)

4.2.2 Pathways Utilizing Two or More Media

Quantity: _____ Description: _____

4.2.3 Device Power Pathways

- No separate power pathways from the initiating device pathway
- Power pathways are separate but of the same pathway classification as the initiating device pathway
- Power pathways are separate and different classification from the initiating device pathway

4.3 Non-Voice Audible System Pathways

4.3.1 Pathways Class Designations and Survivability

Pathways class: B Survivability level: 2 Quantity: 2
(See NFPA 72, Sections 12.3 and 12.4)

4.3.2 Pathways Utilizing Two or More Media

Quantity: _____ Description: _____

4.3.3 Device Power Pathways

- No separate power pathways from the notification appliance pathway
- Power pathways are separate but of the same pathway classification as the notification appliance pathway
- Power pathways are separate and different classification from the notification appliance pathway

5. ALARM INITIATING DEVICES

5.1 Manual Initiating Devices

5.1.1 Manual Fire Alarm Boxes

This system does not have manual fire alarm boxes.

Type and number of devices: Addressable: 1 Conventional: Coded: Transmitter:

Other (specify):

5.1.2 Other Alarm Boxes

This system does not have other alarm boxes.

Description:

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

5.2 Automatic Initiating Devices

5.2.1 Smoke Detectors

This system does not have smoke detectors.

Type and number of devices: Addressable: 2 Conventional:

Other (specify):

Type of coverage: Complete area Partial area Nonrequired partial area

Other (specify):

Type of smoke detector sensing technology: Ionization Photoelectric Multicriteria Aspirating Beam

Other (specify):

5.2.2 Duct Smoke Detectors

This system does not have alarm-causing duct smoke detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

Type of smoke detector sensing technology: Ionization Photoelectric Aspirating Beam

5.2.3 Radiant Energy (Flame) Detectors

This system does not have radiant energy detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

5.2.4 Gas Detectors

This system does not have gas detectors.

Type of detector(s):

Number of devices: Addressable: Conventional:

Type of coverage:

5.2.5 Heat Detectors

This system does not have heat detectors.

Type and number of devices: Addressable: 0 Conventional:

Type of coverage: Complete area Partial area Nonrequired partial area Linear Spot

Type of heat detector sensing technology: Fixed temperature Rate-of-rise Rate compensated

5. ALARM INITIATING DEVICES (continued)

5.2.6 Addressable Monitoring Modules

This system does not have monitoring modules.

Number of devices: 0

5.2.7 Waterflow Alarm Devices

This system does not have waterflow alarm devices.

Type and number of devices: Addressable: 0 Conventional: Coded: Transmitter:

5.2.8 Alarm Verification

This system does not incorporate alarm verification.

Number of devices subject to alarm verification: 72 Alarm verification set for: 60 seconds

5.2.9 Presignal

This system does not incorporate pre-signal.

Number of devices subject to presignal:

Describe presignal functions:

5.2.10 Positive Alarm Sequence (PAS)

This system does not incorporate PAS.

Describe PAS:

5.2.11 Other Initiating Devices

This system does not have other initiating devices.

Describe:

6. SUPERVISORY SIGNAL-INITIATING DEVICES

6.1 Sprinkler System Supervisory Devices

This system does not have sprinkler supervisory devices.

Type and number of devices: Addressable: 0 Conventional: Coded: Transmitter:

Other (specify):

6.2 Fire Pump Description and Supervisory Devices

This system does not have a fire pump.

Type fire pump: Electric pump Engine

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

6.2.1 Fire Pump Functions Supervised

Power Running Phase reversal Selector switch not in auto Engine or control panel trouble Low fuel

Other (specify):

6.3 Duct Smoke Detectors (DSDs)

This system does not have DSDs causing supervisory signals.

Type and number of devices: Addressable: 0 Conventional:

Other (specify):

Type of coverage:

Type of smoke detector sensing technology: Ionization Photoelectric Aspirating Beam

6.4 Other Supervisory Devices

This system does not have other supervisory devices.

Describe:

7. MONITORED SYSTEMS

7.1 Engine-Driven Generator

This system does not have a generator.

7.1.1 Generator Functions Supervised

- Engine or control panel trouble
- Generator running
- Selector switch not in auto
- Low fuel
- Other (specify):

7.2 Special Hazard Suppression Systems

This system does not monitor special hazard systems.

Description of special hazard system(s):

7.3 Other Monitoring Systems

This system does not monitor other systems.

Description of special hazard system(s):

8. ANNUNCIATORS

This system does not have annunciators.

8.1 Location and Description of Annunciators

Location 1: West building new section by escalators. Remote Command Center

Location 2: East building existing section by down escalator. Remote Command Center

Location 3:

9. ALARM NOTIFICATION APPLIANCES

9.1 In-Building Fire Emergency Voice Alarm Communication System

This system does not have an EVACS.

Number of single voice alarm channels: 1 Number of multiple voice alarm channels: 7

Number of speakers: 11 Number of speaker circuits: 13

Location of amplification and sound-processing equipment: IDF 1512, MDF 2518, IDF 3508

Location of paging microphone stations:

Location 1: Remote command center West Bldg

Location 2: Remoted Command center East Bldg

Location 3:

9.2 Nonvoice Notification Appliances

This system does not have nonvoice notification appliances.

Horns: With visible: Bells: With visible:

Chimes: With visible:

Visible only: 0 Other (describe): Speaker Strobes 11

9.3 Notification Appliance Power Extender Panels

This system does not have power extender panels.

Quantity:

Locations:

10. MASS NOTIFICATION CONTROLS, APPLIANCES, AND CIRCUITS This system does not have an MNS.

10.1 MNS Local Operating Consoles

Location 1:

Location 2:

Location 3:

10.2 High-Power Speaker Arrays

Number of HPSA speaker initiation zones:

Location 1:

Location 2:

Location 3:

10.3 Mass Notification Devices

Combination fire alarm/MNS visible appliances: _____ MNS-only visible appliances: _____

Textual signs: _____ Other (describe): _____

Supervision class: _____

10.3.1 Special Hazard Notification

- This system does not have special suppression pre-discharge notification.
- MNS systems DO NOT override notification appliances required to provide special suppression pre-discharge notification.

11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS

11.1 Telephone System

This system does not have a two-way telephone system.

Number of telephone jacks installed: 20 Number of warden stations installed: 3

Number of telephone handsets stored on site: 6

Type of telephone system installed: Electrically powered Sound powered

11.2 Two-Way Radio Communications Enhancement System

This system does not have a two-way radio communications enhancement system.

Percentage of area covered by two-way radio service: Critical areas: _____ % General building areas: _____ %

Amplification component locations: _____

Inbound signal strength: _____ dBm Outbound signal strength: _____ dBm

Donor antenna isolation is: _____ dB above the signal booster gain

Radio frequencies covered: _____

Radio system monitor panel location: _____

11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS (continued)

11.3 Area of Refuge (Area of Rescue Assistance) Emergency Communications Systems

This system does not have an area of refuge (area of rescue assistance) emergency communications system.

Number of stations: _____ Location of central control point: _____

Days and hours when central control point is attended: _____

Location of alternate control point: _____

Days and hours when alternate control point is attended: _____

11.4 Elevator Emergency Communications Systems

This system does not have an elevator emergency communications system.

Number of elevators with stations: _____ Location of central control point: _____

Days and hours when central control point is attended: _____

Location of alternate control point: _____

Days and hours when alternate control point is attended: _____

11.5 Other Two-Way Communication Systems

Describe: _____

12. CONTROL FUNCTIONS

This system activates the following control functions:

Hold-open door releasing devices Smoke management HVAC shutdown F/S dampers

Door unlocking Elevator recall Fuel source shutdown Extinguishing agent release

Elevator shunt trip Mass notification system override of fire alarm notification appliances

Other (specify): _____

12.1 Addressable Control Modules

This system does not have control modules.

Number of devices: 1

Other (specify): _____

13. SYSTEM POWER

13.1 Control Unit

13.1.1 Primary Power

Input voltage of control panel: 120 Control panel amps: 12

Overcurrent protection: Type: breaker Amps: 20

Location (of primary supply panel board): ELLSP Ckt 2 Generator Room LVL 3 RM 3517

Disconnecting means location: Same as above

13.1.2 Engine-Driven Generator

This system does not have a generator.

Location of generator: _____

Location of fuel storage: _____ Type of fuel: _____

13. SYSTEM POWER (continued)

13.1.3 Uninterruptible Power System

This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours):

In alarm mode (minutes):

13.1.4 Batteries

Location: _____ Type: _____ Nominal voltage: _____ Amp/hour rating: _____

Calculated capacity of batteries to drive the system:

In standby mode (hours):

In alarm mode (minutes):

Batteries are marked with date of manufacture Battery calculations are attached

13.2 In-Building Fire Emergency Voice Alarm Communication System or Mass Notification System

This system does not have an EVACS or MNS system.

13.2.1 Primary Power

Input voltage of EVACS or MNS panel: _____ EVACS or MNS panel amps: _____

Overcurrent protection: Type: _____ Amps: _____

Location (of primary supply panel board): Built in to the fire Alarm Panel

Disconnecting means location: _____

13.2.2 Engine-Driven Generator

This system does not have a generator.

Location of generator: _____

Location of fuel storage: _____

Type of fuel: _____

13.2.3 Uninterruptible Power System

This system does not have a UPS.

Equipment powered by a UPS system: _____

Location of UPS system: _____

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours):

In alarm mode (minutes):

13.2.4 Batteries

Location: _____ Type: _____ Nominal voltage: _____ Amp/hour rating: _____

Calculated capacity of batteries to drive the system:

In standby mode (hours):

In alarm mode (minutes):

Batteries are marked with date of manufacture Battery calculations are attached

13. SYSTEM POWER (continued)

13.3 Notification Appliance Power Extender Panels

This system does not have power extender panels.

13.3.1 Primary Power

Input voltage of power extender panel(s): 120 VAC Power extender panel amps: 12

Overcurrent protection: Type: Ckt Breaker Amps: 20

Location (of primary supply panel board): ELLSP Ckts 4,6,&8 Generator Rm LVL 3 Rm 3517

Disconnecting means location: Same as Primary Panel

13.3.2 Engine-Driven Generator

This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

13.3.3 Uninterruptible Power System

This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.3.4 Batteries

Location: Transponder Panels Type: SLA Nominal voltage: 24 Amp/hour rating: Qty 4
33 AH
each

Calculated capacity of batteries to drive the system:

In standby mode (hours): 24.1 In alarm mode (minutes): 15 min

Batteries are marked with date of manufacture Battery calculations are attached

14. RECORD OF SYSTEM INSTALLATION

Fill out after all installation is complete and wiring has been checked for opens, shorts, ground faults, and improper branching, but before conducting operational acceptance tests.

This is a: New system Modification to an existing system Permit number: 2011-06-1459-FAFS

The system has been installed in accordance with the following requirements: (Note any or all that apply.)

NFPA 72, Edition: 2010

NFPA 70, National Electrical Code, Article 760, Edition: 2011

Manufacturer's published instructions

Other (specify): Additional devices for the remodel area of the building only

System deviations from referenced NFPA standards:

Signed: [Signature] Printed name: Steve Sauci Date: 02-01-12
Organization: ES Boulos Title: Project Engineer Phone: 207-464-3708

15. RECORD OF SYSTEM OPERATIONAL ACCEPTANCE TEST

New system

All operational features and functions of this system were tested by, or in the presence of, the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements for the following:

Modifications to an existing system

All newly modified operational features and functions of the system were tested by, or in the presence of, the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements of the following:

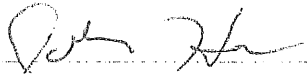
NFPA 72, Edition: 2010

NFPA 70, National Electrical Code, Article 760, Edition: 2011

Manufacturer's published instructions

Other (specify): Additional devices for the remodel area of the building only


Individual device testing documentation [Inspection and Testing Form (Figure 14.6.2.4) is attached]

Signed:  Printed name: John Hale Date: 02-01-12
Organization: SimplexGrinnell LP Title: TR Phone: 207-842-6440

16. CERTIFICATIONS AND APPROVALS

16.1 System Installation Contractor:

This system, as specified herein, has been installed and tested according to all NFPA standards cited herein.

Signed:  Printed name: Steve Saucier Date: 02-01-12
Organization: ES Boulos Title: Project Engineer Phone: 207-464-3708

16.2 System Service Contractor:

The undersigned has a service contract for this system in effect as of the date shown below.

Signed: Same as 15 Printed name: Date:
Organization: Title: Phone:

16.3 Supervising Station:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed: Printed name: Date:
Organization: Title: Phone:

16. CERTIFICATIONS AND APPROVALS (continued)

16.4 Property or Owner Representative:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed: *A. M. M.* Printed name: *GEOFF MITCHELL* Date: *2/1/12*
Organization: *TURNER CONSTRUCTION* Title: *SUPERINTENDENT* Phone: *202.751.9161*

16.5 Authority Having Jurisdiction:

I have witnessed a satisfactory acceptance test of this system and find it to be installed and operating properly in accordance with its approved plans and specifications, with its approved sequence of operations, and with all NFPA standards cited herein.

Signed: _____ Printed name: _____ Date: _____
Organization: _____ Title: _____ Phone: _____