



CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 2 BRAMHALL ST CBL 053 D007001

Issued to Maine Medical Center/William Berry & Sons, Inc. Date of Issue 12/09/2009

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 08-0153, has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES

Emergency Department

APPROVED OCCUPANCY

Phase 2
Use Group : I-2 Type : 1A
IBC 2003

Limiting Conditions: None

This certificate supersedes
certificate issued 11-5-09

Approved:

12-9-09

(Date) Inspector

Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 080153

Please Read
Application And
Notes, If Any,
Attached

This is to certify that MAINE MEDICAL CENTER William Berry & Sons, Inc.
has permission to ED fit-out of Charles Street ement, existing renovation
AT 2 BRAMHALL ST 053 D007001

PERMIT ISSUED
MAR 31 2008
CITY OF PORTLAND

provided that the person or persons firm or person accepting this permit shall comply with all
of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating
the construction, maintenance and use of buildings and structures, and of the application on file in
this department.

Apply to Public Works for street line
and grade if nature of work requires
such information.

Notification of inspection must be
given and when permission procured
before this building or part thereof is
laid or otherwise closed-in.
HOUR NOT REQUIRED.

A certificate of occupancy must be
procured by owner before this build-
ing or part thereof is occupied.

OTHER REQUIRED APPROVALS
Fire Dept. _____
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

Plans
across from
Greg's office

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-0153	Issue Date:	CBL: 053 D007001
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Location of Construction: 2 BRAMHALL ST	Owner Name: MAINE MEDICAL CENTER	Owner Address: 22 BRAMHALL ST	Phone:
Business Name:	Contractor Name: William Berry & Sons, Inc.	Contractor Address: 99 Conifer Hill Drive Danvers	Phone: 2032236026
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: C-41

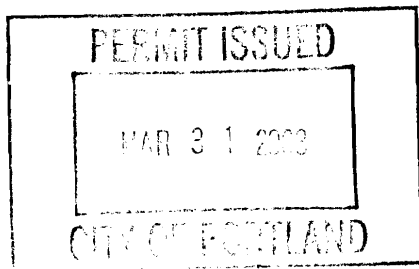
Past Use: Maine Medical Ctr Emergency Department	Proposed Use: Maine Medical Ctr Emergency Department - ED fit-out of Charles Street Basement, Existing ED renovations	Permit Fee: \$83,535.00	Cost of Work: \$8,343,515.00	CEO District: 2
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied w/conditions 3/3/08 JMB PUG.C.	INSPECTION: Use Group: I2 Type: IA <i>[Signature]</i> 3/27/08	

Proposed Project Description: ED fit-out of Charles Street Basement, Existing ED renovations	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: Idobson	Date Applied For: 02/25/2008	Zoning Approval
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>[Signature]</i> 2/25/08	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT _____ ADDRESS _____ DATE _____ PHONE _____

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE _____ DATE _____ PHONE _____

TO: Inspections Department

FROM: Philip DiPierro, Development Review Coordinator

DATE: October 29, 2009

RE: C. of O. for #22 Bramhall Street, Maine Medical Center Emergency
Department Expansion Project (Id#2004-0003) (CBL 053 G
001001)

After visiting the site, I have the following comments:

Site work incomplete:

1. Minor landscaping,
2. Miscellaneous signs,
3. Miscellaneous minor site work,

I anticipate this work will be completed by November 20, 2009.

At this time, **I recommend issuing a temporary Certificate of Occupancy.**

Please Note, the catch basin at the corner of Congress & Gilman Streets will be relocated and sidewalk ramps will be constructed at the end of the project when the street moratorium has expired.

Cc: Barbara Barhydt, Development Review Services Manager
Tammy Munson, Director of Inspection Services
File: Urban Insight



GEOFFREY E. MITCHELL
SENIOR PROJECT ENGINEER

T. 207.662.6719
F. 978.223.9548
E. gmitchell@berry.com

WILLIAM A. BERRY & SON, INC.

99 CONIFER HILL DRIVE, DANVERS, MASSACHUSETTS 01923
T. 978.774.1057 OR 877.774.1057 (TOLL-FREE OUTSIDE MA)
WWW.BERRY.COM



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City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-0153	Date Applied For: 02/25/2008	CBL: 053 D007001
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Location of Construction: 2 BRAMHALL ST	Owner Name: MAINE MEDICAL CENTER	Owner Address: 22 BRAMHALL ST	Phone:
Business Name:	Contractor Name: William Berry & Sons, Inc.	Contractor Address: 99 Conifer Hill Drive Danvers	Phone (203) 223-6026
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

Proposed Use: Maine Medical Ctr Emergency Department - ED fit-out of Charles Street Basement, Existing ED renovations	Proposed Project Description: ED fit-out of Charles Street Basement, Existing ED renovations
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date: 02/25/2008
Note:			Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) All the prior conditions placed upon the new work under previous permits are still in force. 2) Separate permits shall be required for any new signage. 3) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work. 			

Dept: Building	Status: Approved with Conditions	Reviewer: Mike Nugent	Approval Date: 03/31/2008
Note:			Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) 4) Prior to the commencement of construction, a copy of the geotechnical report referenced in the construction documents must be submitted and approved. 2) 3) Prior to the commencement of construction, a copy of the construction permit from the State Fire Marshall, and any conditions of approval contained therein must be submitted and approved. 3) 2) Prior to the commencement of construction, a statement of Special inspections for any required elements such as the ED Canopy, any new structural work or any sprayed on fireproofing or elements of construction subject to special inspections outlined in Chapter 17 must be submitted and approved. 4) 1) Prior to the commencement of construction, information that establishes compliance with Section 407.4.1 Refuge Areas must be submitted and approved. 			

Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Greg Cass	Approval Date: 03/03/2008
Note:			Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) Fire alarm system requires a Masterbox connection per city ordinance. 2) Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress. 3) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required. 4) A single source supplier should be used for all through penetrations. 5) The fire alarm system shall comply with NFPA 72 6) All construction shall comply with NFPA 101 7) The sprinkler system shall be installed in accordance with NFPA 13. 8) Application requires State Fire Marshal approval. 			

Location of Construction: 2 BRAMHALL ST	Owner Name: MAINE MEDICAL CENTER	Owner Address: 22 BRAMHALL ST	Phone:
Business Name:	Contractor Name: William Berry & Sons, Inc.	Contractor Address: 99 Conifer Hill Drive Danvers	Phone (203) 223-6026
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	



Sept. 4, 2008

Attn: Mr. Jon Rioux
Code Enforcement
City of Portland
Portland Maine
04101

SEP 4 2008

RE: Maine Medical Center C of O

Jon:

As discussed we respectfully request time to repair the egress stairs at the Garage leading to Congress St. from the Garage East stair tower. As you are aware the stairs have been torn out and replaced already. The remaining repairs to meet rise and run requirements will be completed by October 16th.

Sincerely,

A handwritten signature in black ink that reads "Henry T. Dunn".

Henry T. Dunn, P.E.



28 January 2008

Mr. Hank Dunn
Maine Medical Center
22 Bramhall Street
Portland, ME 04102

Project 820684 – Central Utility Plant, Maine Medical Center, Portland, Maine

Dear Mr. Dunn:

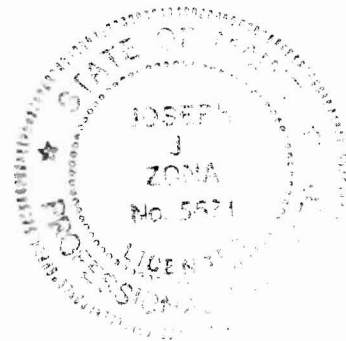
As Structural Engineer of Record and Special Inspector for the above-mentioned project, we visited the site during construction to observe the work for conformance with structural portions of the Construction Documents, which we submitted for permit. Based on these site visits we conclude that, to the best of our knowledge and belief, the work is in compliance with the structural portions of the Construction Documents and the provisions of the governing building code (International Building Code, 2003 Edition).

We are sending this statement as a requirement for the temporary certificate of occupancy for the portions of the project listed above. Upon complete of all punch-list items for these portions of the project, we will submit our final affidavit as required for the certificate of occupancy.

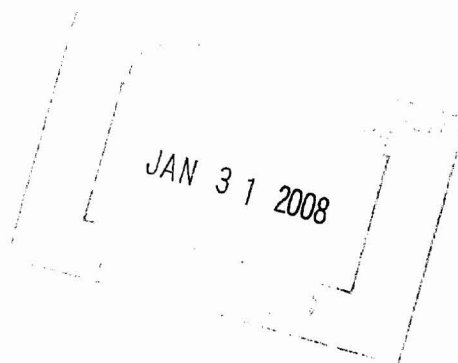
Respectfully Submitted,
Simpson Gumpertz & Heger Inc.

Joseph J. Zona, P.E.
Structural Engineer of Record


Signature



Registration Seal



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28 January 2008

Mr. Hank Dunn
Maine Medical Center
22 Bramhall Street
Portland, ME 04102

Project 820684 – Central Utility Plant, Maine Medical Center, Portland, Maine

Dear Mr. Dunn:

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Respectfully Submitted,
Simpson Gumpertz & Heger Inc.

Joseph J. Zona, P.E.
Structural Engineer of Record



Registration Seal

Joseph J. Zona
Signature

1/30/08 This will be adequate for now upon completion of the numerous projects underway at MMC a full SI report will be submitted

Jeanne Banka

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28 January 2008

Mr. Hank Dunn
Maine Medical Center
22 Bramhall Street
Portland, ME 04102

Project 820684 – Central Utility Plant, Maine Medical Center, Portland, Maine

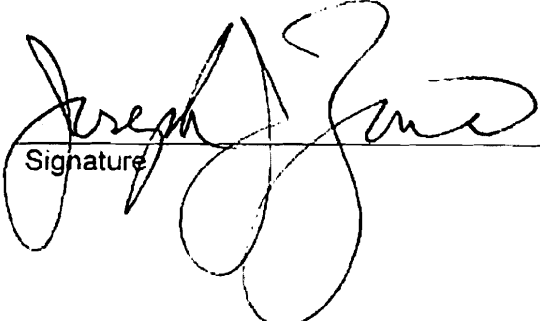
Dear Mr. Dunn:

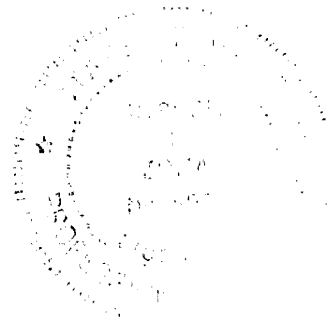
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Respectfully Submitted,
Simpson Gumpertz & Heger Inc.

Joseph J. Zona, P.E.
Structural Engineer of Record


Signature



Registration Seal

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STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Maine Medical Center - Emergency Department Expansion and Renovations
LOCATION: Portland, Maine
PERMIT APPLICANT: Henry Dunn (Project Manager), Maine Medical Center
APPLICANT'S ADDRESS: 22 Bramhall Street
Portland, Maine 04102
PROJECT ARCHITECT: TRO-Jung|Brannen (TRO-JB)
PROJECT STRUCTURAL ENGINEER: Simpson Gumpertz & Heger Inc. (SGH)
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: Joseph J. Zona (SGH)

This statement of special inspections is submitted as a condition for permit issuance in accordance with Section 1704 of the 2003 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above referenced project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections.

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the building official and to the registered design professional in responsible charge at a frequency agreed upon by the permit applicant and building official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and the registered design professional in responsible charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at the conclusion of the project.

Frequency of interim report submittals to Registered Design Professional in Responsible Charge:

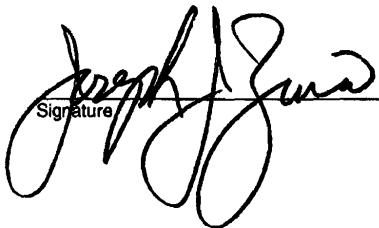
Monthly Bi-Monthly Upon Completion Per attached schedule

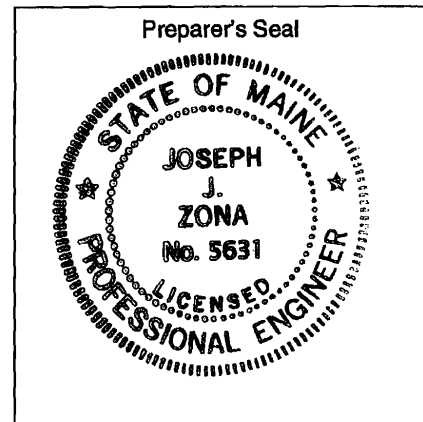
The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Prepared By:

Joseph J. Zona, P.E.

Type or print name

 4/7/2008
Signature Date



To be filled out by Building Department and returned to applicant:

Building Official's Acceptance:

Signature

Date

Permit No.

Frequency of interim report submittals to building official:

Monthly Bi-Monthly Upon Completion Per attached schedule

Program of Structural Tests and Inspections

For compliance with the 2003 International Building Code

Project: Maine Medical Center – Emergency Department Fit-Out

Location: Maine Medical Center
22 Bramhall Street
Portland, Maine, 04102

Owner: Henry Dunn (Project Manager)
Maine Medical Center
22 Bramhall Street
Portland, Maine, 0102

Architect of Record: TRO-Jung|Brannen
22 Boston Wharf Road
Boston, Massachusetts 02210
Phone: 617-502-3400

**Structural Engineer
of Record (SER):** Simpson Gumpertz & Heger Inc.
41 Seyon St., Building 1, Suite 500
Waltham, MA 02453
Phone: 781-907-9000

This program of structural tests and inspections is submitted as a condition for issuance of the building permit in accordance with the 2003 International Building Code.

The following firms, agencies, or individuals (hereinafter referred to collectively as *agents*) will perform the tests and inspections under the direction of the SER:

Abbreviation	Agent
SER	Structural Engineer of Record listed above
GE	Project Geotechnical Engineer – S.W. Cole Engineering, Inc.
TL1	Testing Lab #1 – TBD
TL2	N.A.

The abbreviations will be used on the attached pages to identify which agent is performing the particular tests or inspections.

The following categories of structural tests and inspections, if checked, are included in the program for structural tests and inspections for this project. The specific tests and inspections required for each checked category are listed on the page noted opposite the category.

<u>Category</u>	<u>Page</u>	<u>Category</u>	<u>Page</u>
<input checked="" type="checkbox"/> In-situ bearing strata for footings	8	<input type="checkbox"/> Precast concrete construction	7
<input checked="" type="checkbox"/> Controlled structural fill (prepared fill)	8	<input checked="" type="checkbox"/> Steel construction	3
<input type="checkbox"/> Pile foundations	8	<input type="checkbox"/> Masonry construction	7
<input type="checkbox"/> Pier foundations	8	<input type="checkbox"/> Wood construction	7
<input checked="" type="checkbox"/> Cast-in-place concrete construction	5	<input type="checkbox"/> Curtain walls (wall panels and veneers)	8
		<input type="checkbox"/> Light gage metal framing	9
		<input type="checkbox"/> Special cases	NA

The following items of construction, if checked, are specified in the contract documents on a performance basis. Their structural design will be reviewed by the SER and their construction is included in the program for tests and inspections on the attached sheets:

- | | |
|--|---|
| <input type="checkbox"/> Curtain walls | <input type="checkbox"/> Metal buildings |
| <input type="checkbox"/> Precast concrete components | <input type="checkbox"/> Light gage metal framing |
| <input type="checkbox"/> Post-tensioning steel | <input type="checkbox"/> _____ |
| <input checked="" type="checkbox"/> Structural steel connections | <input type="checkbox"/> _____ |

The following items are excluded from this program of structural tests and inspections, since they are designed by other structural engineers not under the aegis of the SER, and the SER was not retained to provide performance specifications for their design. These other structural engineers may be assigned by the owner, architect, or construction contractor, as applicable, to be special SER's for their respective designs and to provide a program of structural tests and inspections for their respective designs.

Curtain walls, Light gage metal framing

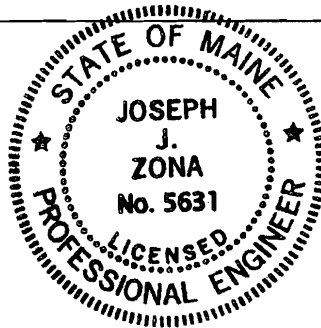
Prepared by the Structural Engineer of Record:

Name: Joseph J. Zona

Signature: *Joseph J. Zona*

Firm: Simpson Gumpertz & Heger Inc.

Date: 4/7/2008



Registration Seal

Steel Construction – IBC Section 1704.3

Item	Agent	Criteria/Scope
1. Fabricator Certification/ Quality Control Procedures (IBC 1704.2.1)	TL1	<ul style="list-style-type: none"> • Review plant quality control procedures. • Inspect plant storage and handling procedures. • Confirm that approved submittals are in the plant and are being used for fabrication. • Review welders' certifications. • File welder certifications and any other quality assurance documentation as required by building department.
2. Fabricator Inspection (IBC 1704.2.1)	TL1	<p>Inspect fabrication and fabricated steel per items 3, 4, and 5 below at five separate plant visits scheduled at the following times:</p> <ul style="list-style-type: none"> • At beginning of fabrication • At approx. 20% complete, • At approx. 40% complete, • At approx. 60% complete, • At approx. 80% complete, and • As directed by the SER.
3. Material Certification	TL1	<ul style="list-style-type: none"> • Review mill reports, certificates, and identification markings of all structural steel, bolts, nuts, and washers for compliance with the ASTM Specifications required by the Contract Documents and by AISC LRFD Specification Section A3. • Inspect certificates of weld filler material and shear stud connectors for compliance with the AWS Specifications required by the Contract Documents and by AISC LRFD Specification Section A3. • Inspect surface finish of steel members for conformance with SSPC standards, approved shop drawings, and Contract Documents.
4. Bolting	TL1	<ul style="list-style-type: none"> • Inspect shop and field bolting procedures per RCSC Specification and for compliance with the Contract Documents. Inspect 100% of bolts in slip critical connections. Inspect 25% of bolts in all other connections. • Verify size and grade of fasteners for compliance with Contract Documents. • Verify bolt strength by testing one nut and bolt from each keg prior to its release to the field. Sign-off each keg to be released to the field. • Inspect daily wrench calibration procedures. • Field test bolts at discretion of inspector or SER by testing selected bolts to failure with tension calibrator.

5. Welding	TL1	<ul style="list-style-type: none"> • Perform weld inspections and tests per Chapter 6 of AWS D1.1. Weld inspectors shall be certified per AWS D1.1. • Perform visual inspections of all welds for conformance with shop drawings with the applicable visual inspection requirements of AWS D1.1. Review with SER scope of visual inspection as work progresses. • Frequency of testing by ultrasonic or magnetic particle testing methods of other welds as follows: <ol style="list-style-type: none"> 1. 5% of partial penetration groove welds 2. 100% of welds subject to tension (hangers, etc.) 3. 10% of all other welds 4. 100% of all remade welds 5. additional inspection as determined by inspector and/or SER defects are revealed
6. Shear Connectors	TL1	<ul style="list-style-type: none"> • Perform inspection of stud installation to verify location, number, installation of studs, and ferrule removal is in accordance with the Contract Documents and that the installation is in compliance with AWS D1.1 Chapter 7. • Daily preproduction testing: per AWS D1.1 Section 7.7 except that five studs are to be tested and that the studs are to be capable of bending 45 degrees from vertical without weld failure. • Visual inspection of production stud installation per AWS D1.1 Section 7.8. • Continuous testing during installation (in addition to the testing required by studs that do not pass the visual inspection): A minimum of two hammer stud bend tests on each structural member at 1/3 points on the span. If a failure occurs, every stud on the structural member is to be tested. Retest all studs that are replaced.
7. Structural Framing, Details and Assemblies	SER, TL1	<ul style="list-style-type: none"> • Inspect member sizes, milled surfaces, beam camber (at shop), and installation and connection details for compliance with approved shop drawings and with Contract Documents.
8. Open Web Steel Joists	N/A	Not Applicable

9. Metal Decking	SER, TL1	<ul style="list-style-type: none"> Review mill reports for all deck material delivered to the site. Verify gauge, width and type of deck for conformance with approved shop drawings and with Contract Documents Verify welder certifications. Inspect placement for proper installation of approved screws, puddle welds, other mechanical fasteners (if any), and accessories for compliance with SDI, AWS D1.3 and the Contract Documents. Inspect placement of deck reinforcement at openings and other discontinuities for compliance with approved shop drawings and with Contract Documents. Inspect repair of damaged galvanized finish for compliance with Contract Documents.
10. Expansion Anchors.	SER, TL1	<ul style="list-style-type: none"> Inspect installation. Verify that existing reinforcing steel is not cut when drilling holes for anchors. Verify embedment and torque of anchors.

Cast-in-Place Concrete Construction – IBC Section 1704.4

Item	Agent	Criteria/Scope
1. Formwork Geometry	TL1	<ul style="list-style-type: none"> Inspect formwork for conformance with ACI 301 Section 2 and ACI 318 Sections 6.1, 6.3, and 6.4. Inspect all formwork size, geometry, and finishes for conformance with Contract Documents.
2. Reinforcement Installation	SER, TL1	<ul style="list-style-type: none"> Inspect location, size, condition and placement of all reinforcement (including prestressing tendons if applicable), reinforcement supports, inserts, and accessories for conformance with approved shop drawings and with Contract Documents. Inspect placement of all reinforcement for compliance with ACI 318 Sections 7.3, 7.4, 7.5, 7.6, and 7.7 and ACI 301 Section 3.3.
3. Reinforcing steel welding	TL1	<ul style="list-style-type: none"> Verify weldability of reinforcing steel other than ASTM A706 per IBC 1704.3 Inspect reinforcing steel resisting flexural and axial forces in intermediate and special moment frames and boundary elements of special reinforced concrete shear walls and shear reinforcement.
4. Bolts and Embedded Items in Concrete Exposed to Tension and shear	TL1	<ul style="list-style-type: none"> Inspect embedded items for conformance with Contract Documents

5. Mix Design	SER	<ul style="list-style-type: none"> Review mix design for conformance with contract documents. Review ready mix plant tickets for conformance of mix with project specifications. Review that plant procedures for establishing mix design strength comply with ACI 301 Sections 4.1 and 4.2 and with ACI 318 Sections 5.1, 5.2, 5.3, 5.4, and 5.8.
6. Materials Certification	TL1 and SER	<ul style="list-style-type: none"> Review in plant all materials, manufacturer's certifications, mill reports, etc. for conformance with contract documents.
7. Materials Certification Records	TL1	<ul style="list-style-type: none"> Maintain records of all material certificates, mill reports of all concrete mix constituent materials, and steel reinforcement.
8. Batching Plant	TL1	<ul style="list-style-type: none"> Review plant quality control procedures for material storage and handling comply with ACI 301 Sections 4.1.3, 7.1 and 7.2. Inspect plant to ensure compliance of mix constituents with the requirements of ACI 318 Chapter 3 and ACI 301 Sections 4.2 and 7.2. Inspect that mixing and ready mix equipment and vehicles comply with ACI 318 Section 5.7 and 5.8 and with ASTM C 94. Maintain records of all ready mix truck contents and dispatch times.
9. Sampling of Fresh Concrete and Evaluation of Concrete Strength	TL1	<ul style="list-style-type: none"> Collect and test concrete samples per ACI 318 Section 5.6 (min, of four cylinders for each 150 cy of concrete or 5,000 sf of slab or wall area) but not less than four cylinders for each day's pour. As a minimum, perform compression tests on two cylinders at 28 days. Measure slump (ASTM C 143), temperature (ASTM C 1064), weight, (ASTM C 138 for normal weight and C 567 for lightweight), and air content (ASTM C 173 for normal weight and C 231 for lightweight) for all concrete sampled for strength. For pumped concrete, measure at point of deposit.
10. Concrete Placement	SER, TL1	<ul style="list-style-type: none"> Maintain a record correlating concrete batching information with location of placement in the finished work. Inspect all concrete placements for compliance with ACI 318 Section 5.9 and 5.10; and ACI 301 Sections 5 and 7.3. Inspect for conformance with all approved hot and cold weather concrete placement procedures.
11. Curing and Protection	TL1	<ul style="list-style-type: none"> Inspect all placements for conformance with Contract Documents, ACI 318 Sections 5.11, 5.12, and 5.13, and with procedures approved by SER.
12. In-Situ Concrete Strength	TL1	<ul style="list-style-type: none"> Verify in-situ concrete strength prior to stressing of prestressing tendons (where applicable) and prior to removal of shores and forms from beams and structural slabs in accordance with ACI 318 Section 6.2

13. Evaluation of Concrete Strength	TL1	<ul style="list-style-type: none"> Test for conformance to specifications in accordance with ACI 318 Section 5.6 and IBC Section 1905.6
14. Post-Tensioning Operations	N/A	Not Applicable
15. Other	TL1	<ul style="list-style-type: none"> Test column base plate non-shrink grout cubes restrained from all sides per ASTM C 109, and for shrinkage/expansion properties per ASTM C 1090. Test 3 cubes per day. Inspect installation of subgrade vapor retarder for compliance with manufacturer's approved installation procedures and with Contract Documents.

Precast Concrete Construction – IBC Section 1704.4 (not applicable)

Masonry Construction – IBC Section 1704.5

(NOT APPLICABLE)

Item	Agent	Criteria/Scope
1. Material Certification	SER, TL1	<ul style="list-style-type: none"> Review certificates of all masonry material, reinforcement, and accessories for compliance with ACI-530.1 Sections 2.1, 2.2, 2.3, 2.4, and 2.5 and with the Contract Documents.
2. Mixing of Mortar and Grout	TL1	<ul style="list-style-type: none"> Periodically inspect all mortar grout mixes and mixing operations for compliance with ACI 530.1 Section 2.6 and with the Contract Documents.
3. Installation of Masonry	TL1	<ul style="list-style-type: none"> Inspect installation of masonry units for compliance with ACI 530.1 Section 3.2 and 3.3, and with the Contract Documents.
4. Reinforcement Installation	TL1	<ul style="list-style-type: none"> Inspect installation of reinforcement for compliance with ACI 530 Chapter 8, ACI 530.1 Section 3.4, and with the Contract Documents.
5. Grouting Operations	TL1	<ul style="list-style-type: none"> Verify that grout space is clean prior to grouting Inspect grouting operations for compliance with ACI 530.1 Section 3.5 and with the Contract Documents.
6. Weather Protection	TL1	<ul style="list-style-type: none"> Inspect that protection procedures comply with ACI 530.1 Section 1.8 and with the Contract Documents.
7. Evaluation of Masonry Strength	TL1	<ul style="list-style-type: none"> Determine compressive strength of masonry per ACI 530.1 Section 1.4 and 1.6. For exterior walls, test three prism samples for f_m (ASTM E 1314) prior to construction and one sample for every 5,000-sq. ft. thereafter for each type of unit used.

(N/A)

8. Anchors and Ties	TL1	<ul style="list-style-type: none">Inspect all anchorage to masonry (including masonry veneers) for compliance with ACI 530 Sections 4.2 and 5.14 and with Contract Documents.
9. Expansion Anchors	TL1	<ul style="list-style-type: none">Inspect installation. Verify that existing reinforcement is not cut when drilling holes for anchors. Verify embedment and torque of anchors.

Wood Construction – IBC Section 1704.6 (not applicable)

In-Situ Bearing Strata for Footings – IBC Section 1704.7.1

Item	Agent	Criteria/Scope
1. Bearing strata for footings	GE	Inspect strata for conformance to the structural drawings, specifications, and/or the approved geotechnical report.
2. Bearing surfaces of footings	GE	Inspect bearing surfaces for conformance to the requirements of the structural drawings, specifications, and/or the approved geotechnical report.

Controlled Structural Fill (Prepared Fill) – IBC Sections 1704.7.2 and 1704.7.3

Item	Agent	Criteria/Scope
1. Fill Material	GE	Test material for conformance to specifications or geotechnical report. Perform laboratory compaction tests in accordance with the specifications to determine optimum water content and maximum dry density.
2. Installation of controlled structural fill (IBC 1704.7.2)	GE	Provide full-time inspection of the installation, in accordance with the specifications and IBC 1704.7.2.
3. Density of fill (IBC 1704.7.3)	GE	Perform field density tests of the in-place fill for every other lift in accordance with the specifications and IBC 1704.7.3.

4. Other	GE	Verify the adequacy of dewatering systems (if required) by confirming that the area to be dewatered is dry.
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Pile Foundations – IBC Section 1704.8 (not applicable)

Pier Foundations – IBC Section 1704.9 (not applicable)

Curtain Walls (Wall Panels and Veneers) – IBC Section 1704.10

(N/A)

Item	Agent	Criteria/Scope
1. Light Gage Metal Framing for Panels	TL1	Perform structural tests and inspections as listed under category <i>Light Gage Metal Framing</i> .
2. Proprietary Light Weight Curtain Walls Systems	TL1	Review manufacturer's fabrication methods and quality control procedures. Review material certification, and inspect fabrication of structural framing, details, connections, and fasteners for conformance to approved submittals and the contract documents.
3. Masonry Veneers	TL1	Perform structural tests and inspections as listed under category <i>Masonry Construction</i> . Verify that relieving angles, ties to the backup structure, and other structural supports are installed in conformance with the contract documents and SER approved submittals.
4. Aluminum Welding	TL1	Review welding procedures and welding qualifications in accordance with AWS D1.2. Observe performance testing of welds required by AWS D1.2.

Light Gage Metal Framing

(N/A)

Item	Agent	Criteria/Scope
1. Fabricator's Quality Control Procedures		Not applicable
2. Member Sizes	TL1	<ul style="list-style-type: none"> Verify that member profiles, lengths, and surface finishes are in conformance with approved shop drawings. Review research/evaluation reports for evidence of compliance IBC 2003.

(N/A)

3. Material Thickness	TL1	<ul style="list-style-type: none">Review mill certificates from sheet steel producer for conformance with AISI and construction documents requirements for uncoated steel thickness.Verify that material thicknesses conform to the gauges specified in the approved shop drawings.
4. Material Properties	TL1	<ul style="list-style-type: none">Review mill reports from sheet steel manufacturer for conformance with yield strength, tensile strength, total elongation, chemical requirements, ductility, and galvanized coating thickness.Review manufacturer's data and/or lab test results for conformance with construction documents, approved shop drawings, and approved submittals for the following: expansion anchors, powder actuated fasteners, mechanical fasteners, vertical deflection clips, miscellaneous clips and accessories
5. Mechanical Connections	TL1	<ul style="list-style-type: none">Inspect fastener installation procedures.Verify that type, number, and location of fasteners comply with construction documents and with approved shop drawings.Verify that member splices comply with approved shop drawings for type and location of connection.Verify that fasteners are installed tight.
6. Welding	TL1	<ul style="list-style-type: none">Check welder certifications.Verify that weld location, size and details conform to approved shop drawings.Verify that welding procedures conform with AWS D1.3 and to construction documents.Visually inspect welds.
7. Framing Details	TL1	<ul style="list-style-type: none">Verify installation and clearances of deflection tracks.Verify that framing details, installation, and tolerances conform to ASTM C 1007, construction documents, and approved shop drawings.Verify that repair and touch-up of galvanizing is done in conformance with construction documents using approved products.

References

1. ACI 301-96, *Standard Specifications for Structural Concrete*.
2. ACI 318-02, *Building Code Requirements for Structural Concrete*.
3. ACI 530.1 / ASCE 6 / TMS 602 - 02, *Specifications for Masonry Structures*.
4. AISC LRFD, Third Edition, *Load and Resistance Factor Design Specification for Structural Steel Buildings*.
5. ASTM A 6-95c, *Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use*.
6. ASTM A 568-95, *Specification for Steel Sheet, Carbon and High-Strength, Low-Alloy, Hot-Rolled and Cold Rolled, General Requirements For*.
7. ASTM C 31-91, *Practice for Making and Curing Concrete Test Specimens in the Field*.
8. ASTM C 94-94, *Specification for Ready-Mixed Concrete*.
9. ASTM C 109-98, *Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimens)*.
10. ASTM C 138-92, *Test Method for Unit Weight, Yield and Air Content (Gravimetric) of Concrete*.
11. ASTM C 143-97, *Test Method for Slump of Hydraulic Cement Concrete*.
12. ASTM C 172-90, *Practice for Sampling Freshly Mixed Concrete*.
13. ASTM C 173-94, *Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method*.
14. ASTM C 231-97, *Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method*.
15. ASTM C 567-91, *Test Method for Unit Weight of Structural Lightweight Concrete*.
16. ASTM C 1007-83, *Specification for Installation of Load Bearing (transverse and Axial) Steel Studs and Related Accessories*.
17. ASTM C 1064-86, *Test Method for Temperature of Freshly Mixed Portland Cement Concrete*.
18. ASTM C 1090-96, *Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout*.
19. ASTM C 1314-97, *Test Method for Constructing and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Masonry*.
20. ASTM D 3963-97, *Specification for Epoxy-Coated Reinforcing Steel*.
21. AWS D1.1-96, *Structural Welding Code - Steel*.
22. *International Building Code*, 2003
23. PCI MNL-116-85, *Manual for Quality Control for Plants and Prestressed Concrete Products*.
24. RCSC-2000, *Specification for Structural Joints Using A325 or A490 Bolts*.
25. SDI, *Steel Deck Institute Specifications and Commentaries for Composite Steel Floor Deck and Specifications and commentaries for Roof Deck*.
26. SSPC, *Steel Structures Painting Council - Steel Structures Painting Manual Vol. 2, Systems and Specifications*.
27. CFSD-ASD-86, *Specification for Design of Cold-Formed Steel Structural Members, with 1989 Addendum*.
28. CCFSS, *AISI Specification Provisions for Screw Connections*.

February 22, 2008

Chris Simmons, Project Manager
Facilities Development
Maine Medical Center
22 Bramhall Street
Portland, Maine 04102

Re: Asbestos Notification, D.E.P. / E.R. Department

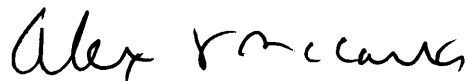
Dear Chris:

Attached, please find the Building Demolition Notification Form for the Maine Medical Center Emergency Department scheduled to be renovated as part of the hospital expansion. In the late 1980's the Emergency Department underwent a major renovation, which included a full asbestos survey and significant asbestos abatement (fireproofing, floor tile, etc.).

I have spoken with John Bucci from the Department of Environmental Protection and he is aware the hospital's renovation and asbestos notification policy (if needed).

If you have any questions please call.

Sincerely;



Alex McCarthy
President

Enclosures



ASBESTOS BUILDING DEMOLITION NOTIFICATION
MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
 Lead & Asbestos Hazard Prevention Program
 17 State House Station, Augusta, Maine 04333



Maine law requires the filing of the ASBESTOS BUILDING DEMOLITION NOTIFICATION with the Department prior to demolition of any building except a single-family home.

Building owners are required to provide this notification of the demolition of a building to the DEP at least 5 working days prior to the demolition. This notification is **not** required before the demolition of a single-family residence or related structure (e.g., garage, shed, barn). It is also **not** required if previous notification of the demolition has been provided to the DEP as part of an asbestos abatement project notification. **Demolition** means the tearing down or intentional burning of a building or part of a building.

Prior to demolition, building owners must determine if there is any asbestos-containing material(s) (ACM) in the building. An "asbestos inspection" by a DEP-licensed Asbestos Consultant is required for all buildings except single-family homes and residential buildings with 2-4 units built after 1980. In lieu of an asbestos inspection, pre-1981 residential buildings with 2-4 units can be surveyed to identify possible ACM by someone knowledgeable about ACM, such as a code enforcement officer or building inspector. If materials that may contain asbestos are found, then you can either assume they are ACM or hire a DEP-licensed Asbestos Consultant to test the materials.

Whenever more than 3 square feet or 3 linear feet of ACM is identified, the ACM must be abated in accordance with the *Maine Asbestos Management Regulations* by a DEP-licensed Asbestos Abatement Contractor. This includes materials presumed to be ACM. Check www.maine.gov for a listing of asbestos contractors.

Prior to issuing a local demolition permit, the DEP requests that municipalities have applicants for municipal demolition permits complete this form and fax it to the DEP at 207-287-7826. Municipalities should not issue local demolition permits if the required asbestos inspection or survey has not been performed and identified ACM removed.

Were regulated asbestos-containing building materials found? Yes No

property address: Maine Medical Center 22 Bramhall Street Portland, ME	building description: <input type="checkbox"/> pre-1981 residential with 2-4 units <input type="checkbox"/> post-1980 residential with 2-4 units <input checked="" type="checkbox"/> Other: Commercial Buildings
asbestos survey/inspection performed by: (name & address) Alex McCarthy PO Box 491 Belgrade Lakes, ME telephone: 207 293-4821	asbestos abatement contractor Morrissey Environmental Lewiston, ME telephone: 1 800 360 3434
property owner: (name & address) Chris Simmons Facilities Development name telephone: 207 21662-2447	demolition contractor: (name & address) N/A telephone:
demolition start date: To Be Determined	demolition end date: To Be Determined

This demolition notification does not take the place of the Asbestos Project Notification if applicable

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT

Alex McCarthy Print Name: Owner/Agent	Inspector Title	Alex J. McCarthy Signature
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BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling
- Final/Certificate of Occupancy: Prior to any occupancy of the structure or use.
NOTE: There is a \$75.00 fee per inspection at this point.
- The final report of Special Inspections shall be submitted prior to the issuance of the Certificate of Occupancy

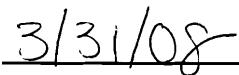
Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

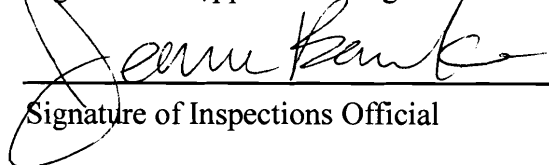
CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.



Signature of Applicant/Designee



Date



Signature of Inspections Official



Date



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>2 BRAMHALL ST.</u>		
Total Square Footage of Proposed Structure/Area <u>FIT/OUT - RENOVATION 46,040 SF</u>		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# <u>S3</u> Block# <u>D</u> Lot# <u>7</u>	Applicant * <u>must</u> be owner, Lessee or Buyer* Name <u>MAINE MEDICAL CENTER</u> Address <u>22 BRAMHALL ST.</u> City, State & Zip <u>PORTLAND, ME</u>	Telephone:
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>8,343,515.00</u> C of O Fee: \$ <u>PAY AT PICK-UP</u> Total Fee: \$ <u>83,460.00</u>
Current legal use (i.e. single family) <u>HOSPITAL</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>HOSPITAL</u> Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>HOSPITAL / ED FIT-OUT OF CHARLES ST. BASEMENT, EXISTING ED RENOVATION.</u>		
Contractor's name: <u>WILLIAM A. BERRY & SON, INC.</u> Address: <u>99 CONIFER HILL DRIVE</u> City, State & Zip <u>DANVERS, MA 01923</u> Telephone: <u>978.774.1057</u> Who should we contact when the permit is ready: <u>GEOFF MITCHELL</u> Telephone: <u>207.662.6719</u> Mailing address: _____		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: [Signature] Date: 2/21/08

This is not a permit; you may not commence ANY work until the permit is issue



Certificate of Design Application

From Designer: TRO Jung/Brannen
 Date: 2/20/2008
 Job Name: Maine Medical Center Emergency Department Expansion & Renovation
 Address of Construction: 22 Bramhall St, Portland ME 04102

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year IBC 2003 Use Group Classification (s) I-2

Type of Construction IA

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC Yes

Is the Structure mixed use? No If yes, separated or non separated or non separated (section 302.3) _____

Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) See Package H

Structural Design Calculations

Available at request Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
<u>stairs, lobbies</u>	<u>100 psf</u>
<u>1st floor corridor</u>	<u>100 psf</u>
<u>upper corridor</u>	<u>80 psf</u>
<u>mech rooms</u>	<u>150 psf</u>
<u>typical floors</u>	<u>60 psf</u>

Wind loads (1603.1.4, 1609)

ASCE 7 Design option utilized (1609.1.1, 1609.6)
100 psf Basic wind speed (1809.3)
1.15 Building category and wind importance Factor, K_d (table 1604.5, 1609.5)
B Wind exposure category (1609.4)
± 0.18 Internal pressure coefficient (ASCE 7)
see specs Component and cladding pressures (1609.1.1, 1609.6.2.2)
varies Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

ASCE 7 Design option utilized (1614.1)
III Seismic use group ("Category")
0.39, 0.16 Spectral response coefficients, S_D s & S_1 (1615.1)
b Site class (1615.1.5)

Yes Live load reduction
(snow governs) 20 psf Roof live loads (1603.1.2, 1607.11)
45 psf Roof snow loads (1603.7.3, 1608)
50 psf Ground snow load, P_g (1608.2)
45 psf If $P_g > 10$ psf, flat-roof snow load P_f
1.0 If $P_g > 10$ psf, snow exposure factor, C_e
1.2 If $P_g > 10$ psf, snow load importance factor, I_s
1.2 unheated Roof thermal factor, C_t (1608.4)
45 psf Sloped roof snowload, P_s (1608.4)
D Seismic design category (1616.3)
OMF Basic seismic force resisting system (1617.6.2)
3.5, 3.0 Response modification coefficient, R , and deflection amplification factor, C_d (1617.6.2)
ELF Analysis procedure (1616.6, 1617.5)
4 kips Design base shear (1617.4, 1617.5.1)
 Flood loads (1803.1.6, 1612)
n/a Flood Hazard area (1612.3)
 _____ Elevation of structure
 Other loads
n/a Concentrated loads (1607.4)
20 Partition loads (1607.5)
250 psf driveway Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



Commercial Interior & Change of Use Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

One (1) complete set of construction drawings must include:

Note: Construction documents for costs in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details
- Detail of any new walls or permanent partitions
- Floor plans and elevations
- Window and door schedules
- Complete electrical and plumbing layout.
- Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment or other types of work that may require special review
- Insulation R-factors of walls, ceilings, floors & U-factors of windows as per the IEBC 2003
- Proof of ownership is required if it is inconsistent with the assessors records.
- Reduced plans or electronic files in PDF format are required if originals are larger than 11" x 17".
- Per State Fire Marshall, all new bathrooms must be ADA compliant.

Separate permits are required for internal and external plumbing, HVAC & electrical installations.

For additions less than 500 sq. ft. or that does not affect parking or traffic, a site plan exemption should be filed including:

- The shape and dimension of the lot, footprint of the existing and proposed structure and the distance from the actual property lines.
- Location and dimensions of parking areas and driveways, street spaces and building frontage.
- Dimensional floor plan of existing space and dimensional floor plan of proposed space.

A Minor Site Plan Review is required for any change of use between 5,000 and 10,000 sq. ft. (cumulatively within a 3-year period)

Fire Department requirements.

The following shall be submitted on a separate sheet: *Please see attached sheet.*

- Name, address and phone number of applicant **and** the project architect.
- Proposed use of structure (NFPA and IBC classification)
- Square footage of proposed structure (total and per story)
- Existing and proposed fire protection of structure.
- Separate plans shall be submitted for
 - a) Suppression system
 - b) Detection System (separate permit is required)
- A separate Life Safety Plan must include:
 - a) Fire resistance ratings of all means of egress
 - b) Travel distance from most remote point to exit discharge
 - c) Location of any required fire extinguishers
 - d) Location of emergency lighting
 - e) Location of exit signs
 - f) NFPA 101 code summary
- Elevators shall be sized to fit an 80" x 24" stretcher.

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405.

Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.



Accessibility Building Code Certificate

Designer: TRD Jung|Brannen

Address of Project: 22 Bramhall Street, Portland ME 04102

Nature of Project: Expansion and renovation of Maine
Medical Center's emergency department.

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

(SEAL)

Signature: Robert W. Hye, AIA

Title: CEO

Firm: TRD Jung|Brannen

Address: 22 Boston Wharf Road
Boston, MA 02210

Phone: 617-502-3400

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design

Date: 2/20/08

From: TRD Jung|Brannen

These plans and / or specifications covering construction work on:

The expansion and renovation of Maine Medical Center's
emergency department.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.



(SEAL)

Signature: Robert W. Hepe, AIA

Title: CEO

Firm: TRD Jung|Brannen

Address: 22 Boston Wharf Road
Boston, MA 02210

Phone: 617-502-3400

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



February 20, 2008

Job No.: 4696

City of Portland
Inspections Division
389 Congress Street
Portland, Maine 04101

Re: Fire department requirements for building permit

Please find below the information required by the fire department as a part of the General Building Permit Application.

- Proposed applicant:
 - Maine Medical Center
 - 22 Bramhall Street
 - Portland, ME 04102

- Project Architect:
 - TRO Jung|Brannen
 - 22 Boston Wharf Road
 - Boston, MA 02210

- Proposed use of structure
 - NFPA classification: Ambulatory Care
 - IBC classification: New Healthcare

- Square footage:
 - 46,040 sf

- Existing and proposed fire protection system:
 - See enclosed fire protection drawings and specifications

- Separate plans for:
 - Suppression system: See enclosed fire protection drawings and specifications.
 - Detection System: See enclosed fire protection drawings and specifications.

- Separate Life Safety Plan
 - See drawing G10B for fire resistance ratings, travel distances, fire extinguisher locations, exit signs, and NFPA 101 code summary.

- o See drawings E30B.A and E30B.B for emergency lighting.
- Elevators:
 - o There are no new elevators for the Emergency Department Expansion and Renovation Project.

Sincerely,



John Viapiano
Associate
TRO Jung|Brannen

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Maine Medical Center - Emergency Department Expansion and Renovations
LOCATION: Portland, Maine
PERMIT APPLICANT: Henry Dunn (Project Manager), Maine Medical Center
APPLICANT'S ADDRESS: 22 Bramhall Street
Portland, Maine 04102
PROJECT ARCHITECT: TRO-Jung|Brannen (TRO-JB)
PROJECT STRUCTURAL ENGINEER: Simpson Gumpertz & Heger Inc. (SGH)
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: Joseph J. Zona (SGH)

This statement of special inspections is submitted as a condition for permit issuance in accordance with Section 1704 of the 2003 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above referenced project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections.

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the building official and to the registered design professional in responsible charge at a frequency agreed upon by the permit applicant and building official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and the registered design professional in responsible charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at the conclusion of the project.

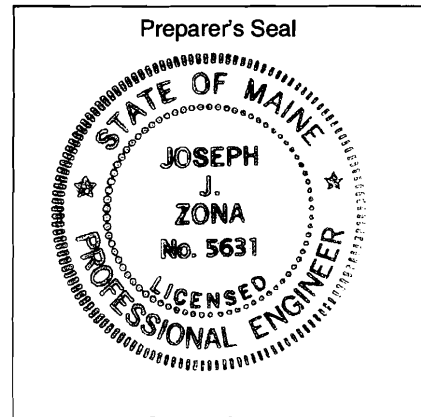
Frequency of interim report submittals to Registered Design Professional in Responsible Charge:
 Monthly Bi-Monthly Upon Completion Per attached schedule

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

Prepared By:

Joseph J. Zona, P.E.
Type or print name

Joseph J. Zona 4/7/2008
Signature Date



To be filled out by Building Department and returned to applicant:

Building Official's Acceptance:

Signature Date Permit No.

Frequency of interim report submittals to building official:
 Monthly Bi-Monthly Upon Completion Per attached schedule

53 07
080153

Program of Structural Tests and Inspections

For compliance with the 2003 International Building Code

Project: **Maine Medical Center – Emergency Department Fit-Out**

Location: **Maine Medical Center
22 Bramhall Street
Portland, Maine, 04102**

Owner: **Henry Dunn (Project Manager)
Maine Medical Center
22 Bramhall Street
Portland, Maine, 0102**

Architect of Record: **TRO-Jung|Brannen
22 Boston Wharf Road
Boston, Massachusetts 02210
Phone: 617-502-3400**

**Structural Engineer
of Record (SER):** **Simpson Gumpertz & Heger Inc.
41 Seyon St., Building 1, Suite 500
Waltham, MA 02453
Phone: 781-907-9000**

This program of structural tests and inspections is submitted as a condition for issuance of the building permit in accordance with the 2003 International Building Code.

The following firms, agencies, or individuals (hereinafter referred to collectively as *agents*) will perform the tests and inspections under the direction of the SER:

Abbreviation	Agent
SER	Structural Engineer of Record listed above
GE	Project Geotechnical Engineer – S.W. Cole Engineering, Inc.
TL1	Testing Lab #1 – TBD
TL2	N.A.

The abbreviations will be used on the attached pages to identify which agent is performing the particular tests or inspections.

The following categories of structural tests and inspections, if checked, are included in the program for structural tests and inspections for this project. The specific tests and inspections required for each checked category are listed on the page noted opposite the category.

<u>Category</u>	<u>Page</u>	<u>Category</u>	<u>Page</u>
<input checked="" type="checkbox"/> In-situ bearing strata for footings	8	<input type="checkbox"/> Precast concrete construction	7
<input checked="" type="checkbox"/> Controlled structural fill (prepared fill)	8	<input checked="" type="checkbox"/> Steel construction	3
<input type="checkbox"/> Pile foundations	8	<input type="checkbox"/> Masonry construction	7
<input type="checkbox"/> Pier foundations	8	<input type="checkbox"/> Wood construction	7
<input checked="" type="checkbox"/> Cast-in-place concrete construction	5	<input type="checkbox"/> Curtain walls (wall panels and veneers)	8
		<input type="checkbox"/> Light gage metal framing	9
		<input type="checkbox"/> Special cases	NA

The following items of construction, if checked, are specified in the contract documents on a performance basis. Their structural design will be reviewed by the SER and their construction is included in the program for tests and inspections on the attached sheets:

- | | |
|--|---|
| <input type="checkbox"/> Curtain walls | <input type="checkbox"/> Metal buildings |
| <input type="checkbox"/> Precast concrete components | <input type="checkbox"/> Light gage metal framing |
| <input type="checkbox"/> Post-tensioning steel | <input type="checkbox"/> _____ |
| <input checked="" type="checkbox"/> Structural steel connections | <input type="checkbox"/> _____ |

The following items are excluded from this program of structural tests and inspections, since they are designed by other structural engineers not under the aegis of the SER, and the SER was not retained to provide performance specifications for their design. These other structural engineers may be assigned by the owner, architect, or construction contractor, as applicable, to be special SER's for their respective designs and to provide a program of structural tests and inspections for their respective designs.

Curtain walls, Light gage metal framing

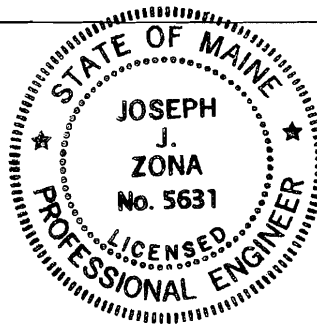
Prepared by the Structural Engineer of Record:

Name: Joseph J. Zona

Signature: *Joseph J. Zona*

Firm: Simpson Gumpertz & Heger Inc.

Date: 4/7/2008



Registration Seal

Steel Construction – IBC Section 1704.3

Item	Agent	Criteria/Scope
1. Fabricator Certification/ Quality Control Procedures (IBC 1704.2.1)	TL1	<ul style="list-style-type: none"> • Review plant quality control procedures. • Inspect plant storage and handling procedures. • Confirm that approved submittals are in the plant and are being used for fabrication. • Review welders' certifications. • File welder certifications and any other quality assurance documentation as required by building department.
2. Fabricator Inspection (IBC 1704.2.1)	TL1	<p>Inspect fabrication and fabricated steel per items 3, 4 , and 5 below at five separate plant visits scheduled at the following times:</p> <ul style="list-style-type: none"> • At beginning of fabrication • At approx. 20% complete, • At approx. 40% complete, • At approx. 60% complete, • At approx. 80% complete, and • As directed by the SER.
3. Material Certification	TL1	<ul style="list-style-type: none"> • Review mill reports, certificates, and identification markings of all structural steel, bolts, nuts, and washers for compliance with the ASTM Specifications required by the Contract Documents and by AISC LRFD Specification Section A3. • Inspect certificates of weld filler material and shear stud connectors for compliance with the AWS Specifications required by the Contract Documents and by AISC LRFD Specification Section A3. • Inspect surface finish of steel members for conformance with SSPC standards, approved shop drawings, and Contract Documents.
4. Bolting	TL1	<ul style="list-style-type: none"> • Inspect shop and field bolting procedures per RCSC Specification and for compliance with the Contract Documents. Inspect 100% of bolts in slip critical connections. Inspect 25% of bolts in all other connections. • Verify size and grade of fasteners for compliance with Contract Documents. • Verify bolt strength by testing one nut and bolt from each keg prior to its release to the field. Sign-off each keg to be released to the field. • Inspect daily wrench calibration procedures. • Field test bolts at discretion of inspector or SER by testing selected bolts to failure with tension calibrator.

5. Welding	TL1	<ul style="list-style-type: none"> • Perform weld inspections and tests per Chapter 6 of AWS D1.1. Weld inspectors shall be certified per AWS D1.1. • Perform visual inspections of all welds for conformance with shop drawings with the applicable visual inspection requirements of AWS D1.1. Review with SER scope of visual inspection as work progresses. • Frequency of testing by ultrasonic or magnetic particle testing methods of other welds as follows: <ol style="list-style-type: none"> 1. 5% of partial penetration groove welds 2. 100% of welds subject to tension (hangers, etc.) 3. 10% of all other welds 4. 100% of all remade welds 5. additional inspection as determined by inspector and/or SER defects are revealed
6. Shear Connectors	TL1	<ul style="list-style-type: none"> • Perform inspection of stud installation to verify location, number, installation of studs, and ferrule removal is in accordance with the Contract Documents and that the installation is in compliance with AWS D1.1 Chapter 7. • Daily preproduction testing: per AWS D1.1 Section 7.7 except that five studs are to be tested and that the studs are to be capable of bending 45 degrees from vertical without weld failure. • Visual inspection of production stud installation per AWS D1.1 Section 7.8. • Continuous testing during installation (in addition to the testing required by studs that do not pass the visual inspection): A minimum of two hammer stud bend tests on each structural member at 1/3 points on the span. If a failure occurs, every stud on the structural member is to be tested. Retest all studs that are replaced.
7. Structural Framing, Details and Assemblies	SER, TL1	<ul style="list-style-type: none"> • Inspect member sizes, milled surfaces, beam camber (at shop), and installation and connection details for compliance with approved shop drawings and with Contract Documents.
8. Open Web Steel Joists	N/A	Not Applicable

9. Metal Decking	SER, TL1	<ul style="list-style-type: none"> Review mill reports for all deck material delivered to the site. Verify gauge, width and type of deck for conformance with approved shop drawings and with Contract Documents Verify welder certifications. Inspect placement for proper installation of approved screws, puddle welds, other mechanical fasteners (if any), and accessories for compliance with SDI, AWS D1.3 and the Contract Documents. Inspect placement of deck reinforcement at openings and other discontinuities for compliance with approved shop drawings and with Contract Documents. Inspect repair of damaged galvanized finish for compliance with Contract Documents.
10. Expansion Anchors.	SER, TL1	<ul style="list-style-type: none"> Inspect installation. Verify that existing reinforcing steel is not cut when drilling holes for anchors. Verify embedment and torque of anchors.

Cast-in-Place Concrete Construction – IBC Section 1704.4

Item	Agent	Criteria/Scope
1. Formwork Geometry	TL1	<ul style="list-style-type: none"> Inspect formwork for conformance with ACI 301 Section 2 and ACI 318 Sections 6.1, 6.3, and 6.4. Inspect all formwork size, geometry, and finishes for conformance with Contract Documents.
2. Reinforcement Installation	SER, TL1	<ul style="list-style-type: none"> Inspect location, size, condition and placement of all reinforcement (including prestressing tendons if applicable), reinforcement supports, inserts, and accessories for conformance with approved shop drawings and with Contract Documents. Inspect placement of all reinforcement for compliance with ACI 318 Sections 7.3, 7.4, 7.5, 7.6, and 7.7 and ACI 301 Section 3.3.
3. Reinforcing steel welding	TL1	<ul style="list-style-type: none"> Verify weldability of reinforcing steel other than ASTM A706 per IBC 1704.3 Inspect reinforcing steel resisting flexural and axial forces in intermediate and special moment frames and boundary elements of special reinforced concrete shear walls and shear reinforcement.
4. Bolts and Embedded Items in Concrete Exposed to Tension and shear	TL1	<ul style="list-style-type: none"> Inspect embedded items for conformance with Contract Documents

5. Mix Design	SER	<ul style="list-style-type: none"> Review mix design for conformance with contract documents. Review ready mix plant tickets for conformance of mix with project specifications. Review that plant procedures for establishing mix design strength comply with ACI 301 Sections 4.1 and 4.2 and with ACI 318 Sections 5.1, 5.2, 5.3, 5.4, and 5.8.
6. Materials Certification	TL1 and SER	<ul style="list-style-type: none"> Review in plant all materials, manufacturer's certifications, mill reports, etc. for conformance with contract documents.
7. Materials Certification Records	TL1	<ul style="list-style-type: none"> Maintain records of all material certificates, mill reports of all concrete mix constituent materials, and steel reinforcement.
8. Batching Plant	TL1	<ul style="list-style-type: none"> Review plant quality control procedures for material storage and handling comply with ACI 301 Sections 4.1.3, 7.1 and 7.2. Inspect plant to ensure compliance of mix constituents with the requirements of ACI 318 Chapter 3 and ACI 301 Sections 4.2 and 7.2. Inspect that mixing and ready mix equipment and vehicles comply with ACI 318 Section 5.7 and 5.8 and with ASTM C 94. Maintain records of all ready mix truck contents and dispatch times.
9. Sampling of Fresh Concrete and Evaluation of Concrete Strength	TL1	<ul style="list-style-type: none"> Collect and test concrete samples per ACI 318 Section 5.6 (min, of four cylinders for each 150 cy of concrete or 5,000 sf of slab or wall area) but not less than four cylinders for each day's pour. As a minimum, perform compression tests on two cylinders at 28 days. Measure slump (ASTM C 143), temperature (ASTM C 1064), weight, (ASTM C 138 for normal weight and C 567 for lightweight), and air content (ASTM C 173 for normal weight and C 231 for lightweight) for all concrete sampled for strength. For pumped concrete, measure at point of deposit.
10. Concrete Placement	SER, TL1	<ul style="list-style-type: none"> Maintain a record correlating concrete batching information with location of placement in the finished work. Inspect all concrete placements for compliance with ACI 318 Section 5.9 and 5.10; and ACI 301 Sections 5 and 7.3. Inspect for conformance with all approved hot and cold weather concrete placement procedures.
11. Curing and Protection	TL1	<ul style="list-style-type: none"> Inspect all placements for conformance with Contract Documents, ACI 318 Sections 5.11, 5.12, and 5.13, and with procedures approved by SER.
12. In-Situ Concrete Strength	TL1	<ul style="list-style-type: none"> Verify in-situ concrete strength prior to stressing of prestressing tendons (where applicable) and prior to removal of shores and forms from beams and structural slabs in accordance with ACI 318 Section 6.2

13. Evaluation of Concrete Strength	TL1	<ul style="list-style-type: none"> Test for conformance to specifications in accordance with ACI 318 Section 5.6 and IBC Section 1905.6
14. Post-Tensioning Operations	N/A	Not Applicable
15. Other	TL1	<ul style="list-style-type: none"> Test column base plate non-shrink grout cubes restrained from all sides per ASTM C 109, and for shrinkage/expansion properties per ASTM C 1090. Test 3 cubes per day. Inspect installation of subgrade vapor retarder for compliance with manufacturer's approved installation procedures and with Contract Documents.

Precast Concrete Construction – IBC Section 1704.4 (not applicable)

Masonry Construction – IBC Section 1704.5 (NOT APPLICABLE)

Item	Agent	Criteria/Scope
1. Material Certification	SER, TL1	<ul style="list-style-type: none"> Review certificates of all masonry material, reinforcement, and accessories for compliance with ACI-530.1 Sections 2.1, 2.2, 2.3, 2.4, and 2.5 and with the Contract Documents.
2. Mixing of Mortar and Grout	TL1	<ul style="list-style-type: none"> Periodically inspect all mortar grout mixes and mixing operations for compliance with ACI 530.1 Section 2.6 and with the Contract Documents.
3. Installation of Masonry	TL1	<ul style="list-style-type: none"> Inspect installation of masonry units for compliance with ACI 530.1 Section 3.2 and 3.3, and with the Contract Documents.
4. Reinforcement Installation	TL1	<ul style="list-style-type: none"> Inspect installation of reinforcement for compliance with ACI 530 Chapter 8, ACI 530.1 Section 3.4, and with the Contract Documents.
5. Grouting Operations	TL1	<ul style="list-style-type: none"> Verify that grout space is clean prior to grouting Inspect grouting operations for compliance with ACI 530.1 Section 3.5 and with the Contract Documents.
6. Weather Protection	TL1	<ul style="list-style-type: none"> Inspect that protection procedures comply with ACI 530.1 Section 1.8 and with the Contract Documents.
7. Evaluation of Masonry Strength	TL1	<ul style="list-style-type: none"> Determine compressive strength of masonry per ACI 530.1 Section 1.4 and 1.6. For exterior walls, test three prism samples for f'm (ASTM E 1314) prior to construction and one sample for every 5,000-sq. ft. thereafter for each type of unit used.

(N/A)

8. Anchors and Ties	TL1	• Inspect all anchorage to masonry (including masonry veneers) for compliance with ACI 530 Sections 4.2 and 5.14 and with Contract Documents.
9. Expansion Anchors	TL1	• Inspect installation. Verify that existing reinforcement is not cut when drilling holes for anchors. Verify embedment and torque of anchors.

Wood Construction – IBC Section 1704.6 (not applicable)

In-Situ Bearing Strata for Footings – IBC Section 1704.7.1

Item	Agent	Criteria/Scope
1. Bearing strata for footings	GE	Inspect strata for conformance to the structural drawings, specifications, and/or the approved geotechnical report.
2. Bearing surfaces of footings	GE	Inspect bearing surfaces for conformance to the requirements of the structural drawings, specifications, and/or the approved geotechnical report.

Controlled Structural Fill (Prepared Fill) – IBC Sections 1704.7.2 and 1704.7.3

Item	Agent	Criteria/Scope
1. Fill Material	GE	Test material for conformance to specifications or geotechnical report. Perform laboratory compaction tests in accordance with the specifications to determine optimum water content and maximum dry density.
2. Installation of controlled structural fill (IBC 1704.7.2)	GE	Provide full-time inspection of the installation, in accordance with the specifications and IBC 1704.7.2.
3. Density of fill (IBC 1704.7.3)	GE	Perform field density tests of the in-place fill for every other lift in accordance with the specifications and IBC 1704.7.3.

4. Other	GE	Verify the adequacy of dewatering systems (if required) by confirming that the area to be dewatered is dry.
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Pile Foundations – IBC Section 1704.8 (not applicable)

Pier Foundations – IBC Section 1704.9 (not applicable)

Curtain Walls (Wall Panels and Veneers) – IBC Section 1704.10 (N/A)

Item	Agent	Criteria/Scope
1. Light Gage Metal Framing for Panels	TL1	Perform structural tests and inspections as listed under category <i>Light Gage Metal Framing</i> .
2. Proprietary Light Weight Curtain Walls Systems	TL1	Review manufacturer's fabrication methods and quality control procedures. Review material certification, and inspect fabrication of structural framing, details, connections, and fasteners for conformance to approved submittals and the contract documents.
3. Masonry Veneers	TL1	Perform structural tests and inspections as listed under category <i>Masonry Construction</i> . Verify that relieving angles, ties to the backup structure, and other structural supports are installed in conformance with the contract documents and SER approved submittals.
4. Aluminum Welding	TL1	Review welding procedures and welding qualifications in accordance with AWS D1.2. Observe performance testing of welds required by AWS D1.2.

Light Gage Metal Framing (N/A)

Item	Agent	Criteria/Scope
1. Fabricator's Quality Control Procedures		Not applicable
2. Member Sizes	TL1	<ul style="list-style-type: none"> Verify that member profiles, lengths, and surface finishes are in conformance with approved shop drawings. Review research/evaluation reports for evidence of compliance IBC 2003.

(N/A)

3. Material Thickness	TL1	<ul style="list-style-type: none">Review mill certificates from sheet steel producer for conformance with AISI and construction documents requirements for uncoated steel thickness.Verify that material thicknesses conform to the gauges specified in the approved shop drawings.
4. Material Properties	TL1	<ul style="list-style-type: none">Review mill reports from sheet steel manufacturer for conformance with yield strength, tensile strength, total elongation, chemical requirements, ductility, and galvanized coating thickness.Review manufacturer's data and/or lab test results for conformance with construction documents, approved shop drawings, and approved submittals for the following: expansion anchors, powder actuated fasteners, mechanical fasteners, vertical deflection clips, miscellaneous clips and accessories
5. Mechanical Connections	TL1	<ul style="list-style-type: none">Inspect fastener installation procedures.Verify that type, number, and location of fasteners comply with construction documents and with approved shop drawings.Verify that member splices comply with approved shop drawings for type and location of connection.Verify that fasteners are installed tight.
6. Welding	TL1	<ul style="list-style-type: none">Check welder certifications.Verify that weld location, size and details conform to approved shop drawings.Verify that welding procedures conform with AWS D1.3 and to construction documents.Visually inspect welds.
7. Framing Details	TL1	<ul style="list-style-type: none">Verify installation and clearances of deflection tracks.Verify that framing details, installation, and tolerances conform to ASTM C 1007, construction documents, and approved shop drawings.Verify that repair and touch-up of galvanizing is done in conformance with construction documents using approved products.

References

1. ACI 301-96, *Standard Specifications for Structural Concrete*.
2. ACI 318-02, *Building Code Requirements for Structural Concrete*.
3. ACI 530.1 / ASCE 6 / TMS 602 – 02, *Specifications for Masonry Structures*.
4. AISC LRFD, Third Edition, *Load and Resistance Factor Design Specification for Structural Steel Buildings*.
5. ASTM A 6– 95c, *Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use*.
6. ASTM A 568– 95, *Specification for Steel Sheet, Carbon and High-Strength, Low-Alloy, Hot-Rolled and Cold Rolled, General Requirements For*.
7. ASTM C 31–91, *Practice for Making and Curing Concrete Test Specimens in the Field*.
8. ASTM C 94–94, *Specification for Ready-Mixed Concrete*.
9. ASTM C 109–98, *Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimens)*.
10. ASTM C 138–92, *Test Method for Unit Weight, Yield and Air Content (Gravimetric) of Concrete*.
11. ASTM C 143–97, *Test Method for Slump of Hydraulic Cement Concrete*.
12. ASTM C 172–90, *Practice for Sampling Freshly Mixed Concrete*.
13. ASTM C 173–94, *Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method*.
14. ASTM C 231–97, *Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method*.
15. ASTM C 567–91, *Test Method for Unit Weight of Structural Lightweight Concrete*
16. ASTM C 1007-83, *Specification for Installation of Load Bearing (transverse and Axial) Steel Studs and Related Accessories*.
17. ASTM C 1064–86, *Test Method for Temperature of Freshly Mixed Portland Cement Concrete*.
18. ASTM C 1090–96, *Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout*.
19. ASTM C 1314–97, *Test Method for Constructing and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Masonry*.
20. ASTM D 3963–97, *Specification for Epoxy-Coated Reinforcing Steel*.
21. AWS D1.1– 96, *Structural Welding Code – Steel*.
22. *International Building Code*, 2003
23. PCI MNL–116-85, *Manual for Quality Control for Plants and Prestressed Concrete Products*.
24. RCSC– 2000, *Specification for Structural Joints Using A325 or A490 Bolts*.
25. SDI, *Steel Deck Institute Specifications and Commentaries for Composite Steel Floor Deck and Specifications and commentaries for Roof Deck*.
26. SSPC, *Steel Structures Painting Council – Steel Structures Painting Manual Vol. 2, Systems and Specifications*.
27. CFSD-ASD-86, *Specification for Design of Cold-Formed Steel Structural Members, with 1989 Addendum*.
28. CCFSS, *AISI Specification Provisions for Screw Connections*.

ATTN: JOHN KROUX / GREENGLASS

1/4

PROCEED: 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 contractors. 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.

PROPERTY NAME: MAINE MED. CENTER CHARLES ST. DATE: 2/28/08

PROPERTY ADDRESS: CHARLES ST. PORTLAND, ME.

ACCEPTED BY: State Fire Marshal's Office

PLANS ADDRESS: #164 State House Station Augusta, Maine 04333-0164

Installation conforms to accepted plans Yes No
 Equipment used is approved If no, explain deviations. Yes No

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
 If no, explain?

Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM: Supplies buildings

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING
	VICTAULIC	V380Z CONK.PEND.	2008	1/2	143	155°
	VICTAULIC	V2704 UPRIGHTS	2008	1/2	4	155°
	VICTAULIC	V2710 SIDEWALL	2008	1/2	3	155°

PIPING & FITTINGS: Type of pipe: BLACK IRON
 Type of fittings: FIRELOCK, CAST IRON

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	Flow	Polyer	VSR		35

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.					
	Make	Model	Serial no.	Make	Model	Serial no.			
	Time to trip through test connection 1		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet 1			
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds		
Without Q.O.D.									
Without Q.O.D.									
Without Q.O.D.									

If no, explain

DELUGE & PREACTION VALVES: Operation Pneumatic Electric Hydraulic

Piping supervised Yes No

Does valve operate from the manual trip, remote, or both control stations? Yes No

Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	
								Flow (gpm)

ZONE B,2
 BASEMENT

49

DESC. IPTION: Pneumatic: Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours.

All piping hydrostatically tested at 225 psi (___ bar) for 2 hours. If no, state reason
 Dry piping pneumatically tested 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 of stopping leaks? Yes No

TEST Drain test: Reading of gauge located near water supply test connection: 15.7 psi (___ bar). Residual pressure with valve in test connection open wide: 15.8 psi (___ bar).

Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?

Verified by copy of the U Form No. 85B flushed by installer of underground sprinkler piping? Yes No
 Other Explain: Flushed by others

If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? Yes No
 If no, explain

BLANK TESTING GASKETS Number used Locations Number removed

WELDING Welding piping Yes No
 If Yes...

Do you certify as the sprinkler contractor that welding procedures comply with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was carried out in compliance with a documented quality control procedure to ensure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated? Yes No

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

HYDRAULIC DATA NAMEPLATE Name plate provided Yes No If no, explain

REMARKS Date left in service with all control valves open 11-17-08

SIGNATURES Name of sprinkler contractor High Tech Fire Protection

Test witnessed by [Signature]

For property owner (signed) [Signature] Title SUPV. Date 11-18-08
 For sprinkler contractor (signed) [Signature] Title FOREMAN Date 11-17-08

Additional Explanations and notes

14-NOV-2008 04:11PM FROM-BERRY MAINE MED

+207 662 5248

T-538 P.001/001 F-685

S/A



Wm. G. FRANK

MEDICAL GAS SERVICES LLC.

TEMPORARY CERTIFICATE (Good until final report is received)

PO. BOX 1595
CONCORD, NH 03302-1595
1-888-633-4494
FAX 1-603-227-0271

Member NFPA, ASPE, ASHE

Date: 11/14/08

Facility: Maine Medical Center

Area Tested: New Emergency Dept.

Tests were performed for Certification of Medical Gas Systems according to NFPA 99, 2005 edition criteria (System verification paragraph 5.1.12.3).

- 1. PASS FAIL Not Applicable Standing Pressure Test, Paragraph 5.1.12.3.2.
- 2. PASS FAIL Not Applicable Cross-Connections Test, Paragraph 5.1.12.3.3.
- 3. PASS FAIL Not Applicable Valve Test, Paragraph 5.1.12.3.4.
- 4. PASS FAIL Not Applicable Master Alarms, Paragraph 5.1.12.3.5.2.
- 5. PASS FAIL Not Applicable Area Alarms, Paragraph 5.1.12.3.5.3.
- 6. PASS FAIL Not Applicable Piping Purge Test, Paragraph 5.1.12.3.6.
- 7. PASS FAIL Other Piping Particulate Test, Paragraph 5.1.12.3.7.
 - a. Filter 45-micron sample taken, results in final report.
 - b. White cloth only
- 8. PASS FAIL Other Piping Purity Test, Paragraph 5.1.12.3.8.
 - a. Purity test samples were sent to third party laboratory for analysis, results in final report.
 - b. On-site reagent tubes used
- 9. PASS FAIL Not Applicable Final Tie-In Test, Paragraph 5.1.12.3.9.
- 10. PASS FAIL Not Applicable Operational Pressure Test, Paragraph 5.1.12.3.10.
- 11. PASS FAIL Not Applicable Medical Gas Concentration Test, Paragraph 5.1.12.3.11.
- 12. PASS FAIL Not Applicable Labeling, Paragraph 5.1.12.3.13.
- 13. PASS FAIL Not Applicable Medical Air Purity Test 5.1.12.3.12
- 14. PASS FAIL Not Applicable Source Equipment Verification 5.1.12.3.14

Scope of renovation: Installation of new emergency department

Comments: Need to re-label service valves. Currently they are labeled air valves

The final report will consist of data sheets for this project and will provide additional information. All parties should read these carefully. Only those outlets and that portion of the systems are reflected within this certificate. This certificate shall be rendered void at any time adjustments, modifications or maintenance is performed on any of the above systems.

Completed by: Jason D. Sweatt
Jason D. Sweatt
Thomas Hill
Neil Gagne

Complete MEDICAL GAS SYSTEM SERVICE
From the sources to the outlets.

4/4

Youngblood Co., Inc.

32 Ashland Street

TRANSMITTAL

No. 00014

Haverhill, MA 01830

Phone: 978-373-5607

Fax: 978-521-1572

PROJECT: Maine Medical Center Emergency Dept

DATE: 11/14/2008

TO: William A Berry & Son, Inc.
99 Conifer Hill Drive
Danvers, MA 01925

REF: MEDICAL GAS TEMPORARY
CERTIFICATE

ATTN: Katie Lamb

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input checked="" type="checkbox"/> Letter	<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints	<input checked="" type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order	<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans		<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples	SENT VIA:	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications	<input type="checkbox"/> Attached	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:	<input type="checkbox"/> Separate Cover Via:	<input type="checkbox"/> Due Date:

ITEM	PACKAGE	SUBMITTAL	DRAWING	REV.	ITEM NO.	COPIES	DATE	DESCRIPTION	STATUS
					001	1	11/14/2008	TEMPORARY MEDICAL GAS CERTIFICATE	AAN

CC:

Signed:

Peter Viens

Ann: Jon KIDUX /
GREG CASS

874-8716 1/5

FIRE ALARM SYSTEM RECORD OF COMPLETION

To be completed by the system installation contractor at the time of system acceptance and approval.

1. PROTECTED PROPERTY INFORMATION

Name of property: Emergency Dept basement of East Tower NOV 18

Address: 22 Bramhall St, Portland, Me.

Description of property: Business

Occupancy type: Hospital

Name of property representative: Hank Dunn

Address: "same"

Phone: _____ Fax: _____ E-mail: _____

Authority having jurisdiction over this property: City of Portland

Phone: 207-874-8400 Fax: _____ E-mail: _____

2. FIRE ALARM SYSTEM INSTALLATION, SERVICE, AND TESTING INFORMATION

Installation contractor for this equipment: ES Boulos Co.

Address: 45 Bradley Dr., Westbrook, Me.

Phone: 207-464-8706 Fax: 207-464-1833 E-mail: _____

Service organization for this equipment: Honeywell Int.

Address: 501 County Rd., Westbrook, Me.

Phone: 207-879-2011 Fax: 207-879-2078 E-mail: _____

Location of as-built drawings: Hospital Engineering Location of historical test reports: Hospital Eng.

Location of system operation and maintenance manuals: Hospital Engineering

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

Address: _____

Phone: _____ Fax: _____ E-mail: _____

Contract expires: _____ Contract number: _____ Frequency of routine inspections: _____

3. TYPE OF FIRE ALARM SYSTEM OR SERVICE

NFPA 72 Chapter Reference of System Type: n/a

Name of organization receiving alarm signals with phone numbers (if applicable): _____

Alarm: _____ Phone: _____

Supervisory: _____ Phone: _____

Trouble: _____ Phone: _____

Entity to which alarms are retransmitted: _____ Phone: _____

Method of retransmission of alarms to that organization or location: _____



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3. TYPE OF FIRE ALARM SYSTEM OR SERVICE (continued)

If Chapter 8, note the means of transmission from the protected premises to the central station:

- Digital alarm communicator
- McCulloh
- Multiplex
- 2-way radio
- 1-way radio
- N/A

If Chapter 9, note the type of connection: Local energy Shunt N/A

3.1 System Software

Operating system (executive) software revision level: 010.008.008

Site-specific software revision date: 11/17/2008

Revision completed by: GSW/MRB

4. SIGNALING LINE CIRCUITS

Characteristics of signaling line circuits connected to this system (see NFPA 72, Table 6.6.1):

Quantity: 6 Style: 7 Class: A

5. ALARM-INITIATING DEVICES AND CIRCUITS

Characteristics of initiating device circuits connected to this system (see NFPA 72, Table 6.5):

Quantity: 0 Style: Class:

5.1 Manual Initiating Devices

5.1.1 Manual Pull Stations

Number of manual pull stations: 4

Type of devices: Addressable Conventional Coded Transmitter N/A

5.2 Automatic Initiating Devices

5.2.1 Area Smoke Detectors

Number of smoke detectors: 48

Type of coverage: Complete area Partial area Non-required partial area N/A

Type of devices: Addressable Conventional Coded Transmitter N/A

Type of smoke detector sensing technology: Ionization Photoelectric

5.2.2 Duct Smoke Detectors

Number of duct smoke detectors: 17

Type of coverage:

Type of devices: Addressable Conventional Coded Transmitter N/A

Type of smoke detector sensing technology: Ionization Photoelectric

5.2.3 Heat Detectors

Number of heat detectors: 0

Type of coverage: Complete area Partial area Non-required partial area N/A

Type of devices: Addressable Conventional Coded Transmitter N/A

5.2.4 Sprinkler Water flow Detectors

Number of water flow detectors:

Type of devices: Addressable Conventional Coded Transmitter N/A

5.2.5 Alarm Verification

Number of devices subject to alarm verification: 65

Alarm verification on this system is: Enabled Disabled Set for: 15 seconds



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6. SUPERVISORY SIGNAL-INITIATING DEVICES AND CIRCUITS

6.1 Sprinkler System

Number of valve supervisory switches: _____

Type of device: Addressable Conventional Coded Transmitter N/A

6.2 Fire Pump

Type of fire pump: Electric Diesel

Type of fire pump supervisory device: Addressable Conventional Coded Transmitter N/A

Fire Pump Functions Supervised

Fire pump power Fire pump running Fire pump phase reversal Selector switch not in auto
 Engine or control panel trouble Low fuel

Other: _____

6.3 Engine-Driven Generator

Type of generator supervisory device: Addressable Conventional Coded Transmitter N/A

Engine or control panel trouble Generator running Selector switch not in auto Low fuel

Other: _____

7. ANNUNCIATORS

7.1 Annunciator 1 Local Remote

Type: Addressable Directory Graphic N/A Location: GRID FLOOR RACP

7.2 Annunciator 2 Local Remote

Type: Addressable Directory Graphic N/A Location: MAIN LOBBY

7.3 Annunciator 3 Local Remote

Type: Addressable Directory Graphic N/A Location: _____

8. ALARM NOTIFICATION DEVICES AND CIRCUITS

8.1 Emergency Voice Alarm Service

Number of single voice alarm channels: _____ Number of multiple voice alarm channels: _____

Number of speakers: _____ Number of speaker zones: _____

8.2 Telephone Jacks

Number of telephone jacks installed: _____ Number of telephone handsets stored on site: _____

Type of telephone system installed: Electrically powered Sound powered N/A

8.3 Nonvoice Audible System

Characteristics of notification device circuits connected to this system (see NFPA 72, Table 6.5):

Quantity: _____ Style: N/A Class: _____

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8. ALARM NOTIFICATION DEVICES AND CIRCUITS (continued)

8.1 Types and Quantities of Nonvoice Notification Appliances Installed

Bells: _____ With visual device: _____ Horns: _____ With visual device: 28
 Chimes: _____ With visual device: _____ Bells: _____ With visual device: _____
 Visual devices without audible devices: 23 _____ Other (describe): _____

9. EMERGENCY CONTROL FUNCTIONS ACTIVATED

- Hold-open door releasing devices
- Smoke management or smoke control
- Door unlocking
- Elevator recall
- Other

10. SYSTEM POWER SUPPLY

10.1 Primary Power

Nominal voltage: 120V _____ Amps: _____
 Overcurrent protection: Type: _____ Amps: _____
 Location (of primary supply panel board): _____
 Disconnecting means location: _____

10.2 Secondary Power

Location: _____ Type: Battery _____ Nominal voltage: 24 _____ Current rating: _____
 Number of standby batteries: 2 _____ Amp hour rating: 55 _____
 Location of emergency generator: _____
 Location of fuel storage: _____
 Calculated capacity of secondary power to drive the system: _____
 In standby mode: _____ In alarm mode: _____

11. 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.

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

- NFPA 72
- NFPA 70, National Electrical Code, Article 760
- Manufacturer's published instructions
- Other (please specify): _____

System deviations from referenced NFPA standards: _____

Signed: Russell Chesley Printed name: Russ Chesley Date: Nov. 17, 2008
 Organization: E.S. Boulton Title: Project Manager Phone: 207-461-3766

12. RECORD OF SYSTEM OPERATION

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 of:

- NFPA 72
- NFPA 70, National Electrical Code, Article 760
- Manufacturer's published instructions
- Other (please specify): _____
- Documentation in accordance with Inspection and Testing Form (Figure 10.6.2.3) is attached

Signed: Gary Wood Printed name: Gary Wood Date: Nov. 17, 2008
 Organization: Honeywell, Inc. Title: Systems Specialist Phone: 207-879-2010



5/5

FUNDAMENTALS OF FIRE ALARM SYSTEMS

72-37

13. CERTIFICATIONS AND APPROVALS

13.1 System Installation Contractor

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

Signed: [Signature] Printed name: Ross Chesley Date: Nov. 17, 2008
Organization: E.S. Boulous Title: Project Manager Phone: 207-464-2906

13.2 System Service Contractor

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

Signed: [Signature] Printed name: Gary Wood Date: Nov. 17, 2008
Organization: Honeywell, Inc Title: Systems Specialist Phone: 207-879-2010

13.3 Central Station

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

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

13.4 Property Representative

I accept this system as having been installed and tested to its specifications and all NFPA standards cited herein.

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

13.5 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, its approved sequence of operations, and with all NFPA standards cited herein.

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



99 CONIFER HILL DRIVE
DANVERS, MASSACHUSETTS 01923
T: 978.774.1057
T: 877.774.1057 (TOLL-FREE OUTSIDE MA)
F: 978.777.8217
WWW.BERRY.COM

Letter of Transmittal # 1

To: Mike Nugent
City Of Portland
389 Congress Street
Portland, ME

Transmittal #: 1
Date: 3/27/2008
Job: 06-358-0 MMC: ER Expansion & Reno

Subject: Geotechnical Report

- WE ARE SENDING YOU**
- Attached
 - Under separate cover via Mail the following items :
 - Shop drawings
 - Prints
 - Plans
 - Samples
 - Copy of letter
 - Change order
 - Specifications
 - Geotechnical Report

Document Type	Copies	Date	No.	Description
Submittal	1	3/27/08	02-0067.1	SWCole Geotechnical Report

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- PRICING DUE
- Approved as submitted
- Approved as noted
- Returned for corrections
- Other
- Resubmit ___ copies for approval
- Submit ___ copies for distribution
- Return ___ corrected prints

Remarks: Mike,
Please find geotechnical report as requested . I will follow up with balance of information asap .
Thanks,
Geoff

From:

Signature: _____

Copy To:



State of Maine
 Department of Public Safety
Construction Permit



Reviewed
 for Barrier
 Free

17523

Sprinkled
 Sprinkler Supervised

21843
 2.2.5

MAINE MED CTR EMERGENCY DEPT EXP & RENO

Located at: 22 BRAMHALL STREET

PORTLAND

Occupancy/Use: HOSPITAL

Permission is hereby given to:

HANK DUNN

22 BRAMHALL STREET
 PORTLAND, ME 04102

to construct or alter the afore referenced building according to the plans hitherto filed with the Commisioner and now approved.

No departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provision of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.

Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit will expire at midnight on the 13 th of September 2008

Dated the 14 th day of March A.D. 2008

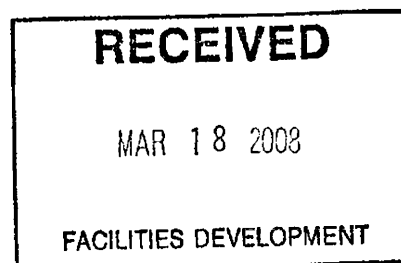
Commissioner

Copy-1 Owner

Comments:

HANK DUNN

22 BRAMHALL STREET
 PORTLAND, ME 04102



- 10-8-09 Close-in ceiling insp. - need to put lower rating above ceiling, relocate pull station entrance, respray brown for fire protection mjc/mj
- 10-29-09 Final inspection - CO (excess temp. see Philip DiPuccio) mjc/mj
- 10-5-09 List of correction completed - OP - to issue 11-5-09 mjc/mj
-