

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

BUILDING DEPARTMENT

PERMIT

Permit Number: 071022

This is to certify that MAINE TURNPIKE AUTHORITY / TR

has permission to New 3-story building w/192 parking spaces

AT 2352 CONGRESS ST

233 A004001

PERMIT ISSUED

SEP 17 2007

provided that the person or persons, firm or corporation 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 written permission procured before this building or part thereof is altered or closed-in. 24 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. Craig Cass
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Signature]
Director - Building & Inspection Services
9/16/07

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 07-1022	Issue Date:	CBL: 233 A004001
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Location of Construction: 2352 CONGRESS ST	Owner Name: MAINE TURNPIKE AUTHORITY	Owner Address: 430 RIVERSIDE ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address:	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	Zone: I-M

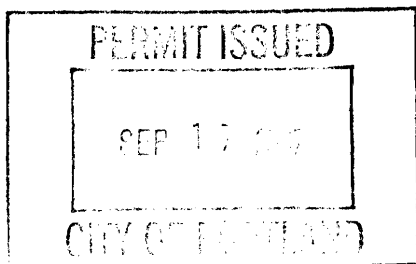
Past Use: Vacant Land	Proposed Use: Commercial - Office Maine Turnpike Authority - New 3 story building w/192 parking spaces	Permit Fee: \$112,965.00	Cost of Work: \$11,286,305.00	CEO District: 3
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>See Conditions</i>	INSPECTION: Use Group: <i>B</i> Type: <i>2B</i> <i>9/16/07</i>	

Proposed Project Description: New 3 story building w/192 parking spaces	Signature: <i>Greg Carr</i>	Signature: <i>[Handwritten 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: 08/21/2007	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	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <i>N/A</i>	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review
<input type="checkbox"/> Flood Zone <i>Panel R Zone X</i>	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input checked="" type="checkbox"/> Site Plan <i>2006-0090</i>	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
Maj <input checked="" type="checkbox"/> Minor <input type="checkbox"/> MM	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
Date: <i>9/24/07</i>	Date:	Date: <i>[Handwritten Signature]</i>



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

City of Portland, Maine - Building or Use Permit

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

Permit No: 07-1022	Date Applied For: 08/21/2007	CBL: 233 A004001
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Business Name:	Contractor Name: TBD	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

Proposed Use: Commercial - Office Maine Turnpike Authority - New 3 story building w/192 parking spaces	Proposed Project Description: New 3 story building w/192 parking spaces
-----------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------

Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date: 08/24/2007
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.			
2) Separate permits shall be required for any new signage.			

Dept: Building	Status: Approved	Reviewer: Mike Nugent	Approval Date: 09/19/2007
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) This permit is approved, all of the review questions/comments have been responded to and adequately satisfy code compliance of this project.			

Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Greg Cass	Approval Date: 08/24/2007
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) The sprinkler system shall be installed in accordance with NFPA 13.			
2) A single source supplier should be used for all through penetrations.			
3) The fire alarm system shall comply with NFPA 72			
4) Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress.			
5) Application requires State Fire Marshal approval.			
6) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance			
7) The doors in both stairs at the first floor shall swing in the direction of egress travel			
8) All construction shall comply with NFPA 101 Review 8.7.1.2 & 8.7.1.3 Doors to storage to be 3/4 hr.			

Dept: Public Works	Status: Open	Reviewer:	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>

Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>

Dept: Parks	Status: Open	Reviewer: Jeff Tarling	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>

Location of Construction: 2352 CONGRESS ST	Owner Name: MAINE TURNPIKE AUTHORITY	Owner Address: 430 RIVERSIDE ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address:	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

Dept: Traffic	Status: Open	Reviewer:	Approval Date:	Ok to Issue: <input type="checkbox"/>
Note:				
Dept: Engineering	Status: Open	Reviewer:	Approval Date:	Ok to Issue: <input type="checkbox"/>
Note:				
Dept: Fire	Status: Approved	Reviewer: Cptn Greg Cass	Approval Date:	Ok to Issue: <input checked="" type="checkbox"/>
Note: The Fire dept checklist needs to be referanced here as I am unable to do the plan review with the information provided. Mark Johnson @ SMRT contacted 5-23-06				
Dept: DRC	Status: Pending	Reviewer: Jay Reynolds	Approval Date:	Ok to Issue: <input type="checkbox"/>
Note:				
Dept: Planning	Status: Approved with Conditions	Reviewer: Jean Fraser	Approval Date: 05/08/2007	Ok to Issue: <input type="checkbox"/>
Note:				

Comments:
8/22/2007-mes: waiting for a stamped approved site plan from Planning.
8/24/2007-mes: My error- the stamped approved plans were given to this office on 7/27/07 and were not filed away yet.

Location of Construction: 2352 CONGRESS ST	Owner Name: MAINE TURNPIKE AUTHORITY	Owner Address: 430 RIVERSIDE ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

9/19/2007-Idobson:

-----Original Message-----

From: MIke Nugent [mailto:mjn@portlandmaine.gov]
 Sent: Saturday, September 08, 2007 1:46 PM
 To: Jeanie Bourke
 Cc: info
 Subject: ME turnpike permit

I've completed the reveiw and have the following questions/comments:

- 1)Need COMcheck report or other document establishing IECC code complaince.
- 2) Curious!! The siesmic Site Class is a "B" yet we arrived at a seismic design category of "C". How did that happen? Anyway if you classify this as a "C" we need a Seismic Quality assurance plan and also need a contractor's statement of responsibility (See Chapter 17)
- 3) Need UL listing for all required fire separation assemblies.
- 4) What is a "nonsecure" fire separation assembly? (see AE001)
- 5)The occupant numbers on AE001far exceed thelimitations in Table1004.1.2 for Business areas please provide a Code Justification.
- 6) The first floor area that contains rooms 117 through 149 has one means of egress. Let's review it to make sure that there are no common path of travel issues or dead end issues etc.
- 7)What kind of cooking equipment will be in the "Kitchen"?
- 8) Please confirm the tread and riser dimensions and balluster spacing.
- 9) Please provide exterior stair details with guards, intermediate rail and hand rail details.
- 10) Please show locations of exterior walking areas that are 30" or greater above grade below and their guard details (including retaining walls)
- 11) Please provide building elevations that show safety glazing locations

Great plans!

Thanks

Mike Nugent
 Consulting Plans Examiner
 City of Portland

-----Original Message-----

Applicant: ME Turnpike Authority
Headquarters

Date: 1/29/07 ^{revamp in} old appl

Address: 2352 Congress St

C-B-L: 233-A-004
233-A-008

CHECK-LIST AGAINST ZONING ORDINANCE

Date - New Construction

07-1022

Zone Location - I-M Zone

Interior or corner lot -

Proposed Use/Work - TO construct offices/headquarters for ME Turnpike Auth, 35 story Bldg -

Sewage Disposal - City

Lot Street Frontage - 60 min = 232.49' given

Front Yard - 1' for each 1' of height ~~of height~~ - 40.66' req - 335' scaled

Rear Yard - 1' for each 1' of height - 40.66' req - 203' scaled
Doesn't about res.

Side Yard - 1' for each 1' of height - 40.66' req - 114' & 94' scaled
Doesn't about res.

Projections -

Width of Lot - N/A

Height - 75' MAX - ¹⁴ 40.66' given (scaled)
_{13.33}

original appl. shows 8.02 acres

Lot Area - Minimum lot size ¹⁴ _{13.33} ~~40.66~~ (6.78 acres given on cover sheet) ^{11.86 AC given in written sub}

Lot Coverage/Impervious Surface - 75% MAX impervious - 47% given

Area per Family - N/A

^{determined by} Off-street Parking - Sec 14 - 332(f) over 50,000 sq ft - ~~ok~~ per plan
_{planning BD}

Loading Bays - None req for offices

Site Plan - Major # 2006-0090

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - panel 12 - Zone X

~~Revised~~ Pavement setback from lot boundaries - 10' min req - 10' shown
what are the PADS at side? Communications Tower



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Development
Division of Inspections Services

FROM: SMRT, Inc.

RE: Certificate of Design

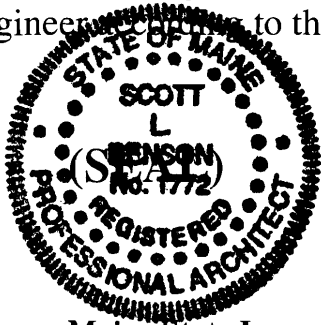
DATE: Aug. 21, 2007

These plans and / or specifications covering construction work on:

Maine Turnpike Authority Administration Building

2360 Congress Street, Portland, Maine

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



Signature: Scott L. Benson

Title: Principal

Firm: SMRT, Inc.

As per Maine State Law:

\$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

Address: 144 Fore Street, Portland, ME

Location of Construction: 2352 CONGRESS ST	Owner Name: MAINE TURNPIKE AUTHORITY	Owner Address: 430 RIVERSIDE ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

From: Mike Nugent [mailto:mjn@portlandmaine.gov]
 Sent: Sunday, September 16, 2007 3:23 PM
 To: Jeanie Bourke; Scott Benson
 Cc: PriceEngrs@aol.com; RDRISCOLL@HNTB.com; PMerfeld@maineturnpike.com;
 Lannie Dobson; Laurie Warhol
 Subject: Me Turnpike Authority Permit

Thanks for the responses.

With regard to the "accessory assembly spaces", we are still an overall "B" use group, I assume that you are using section 1004.2 to allow for the increased occupant load and that you fully comply, please confirm.

- Response: Means of egress are designed to accomodate the occupancy load described on the drawings, which load we understand is correctly determined for both the business use and accessory assembly use in accordance with Section 1004, including 1004.2.

With regard to energy code compliance, Please provide a signed compliance statement that establishes compliance with all applicable elements of the 2003 IECC.

- Response: As part of the building permit application SMRT has already submitted a "Certificate of Design" stating our understanding that the design complys with the 2003 International Building Code. Per Section 101.4.7
- Energy: "The provisions of the International Energy Conservation Code shall apply to all matters governing the design and construction of buildings for energy efficiency." Per Section 102.4 Referenced codes and standards: "The codes and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference." By executing the "Certificate of Design," SMRT has already certified compliance with 2003 IECC.

With regard to window glazing please confirm that there are no other window locations that fall into the category of Hazardous Locations as outlined in section 2406.3.

- Response: The only windows known to fall into the category of "hazardous locations" not addressed in SMRT's correspondence dated 9/11/07 are those windows whose glazing is held in wood frames around the Lobby 210 and Hall 201a. The tempered safety glazing for these windows is described on A4, A7 & A10/AE625.

And finally with regard to exterior stairs and retaining wall guards. Please confirm that all retaining walls that are more that 30" above the grade below will have code compliant guard protection, and that all stairs will have code compliant gaurdrails / hand rails/intermediate handrails where required.

- Response: Please reference Item No. 9 of SMRT's correspondence dated 9/11/07 as follows: "Exterior hand rail details are provided on G1/C503 and G1/C504."
- Also please reference Item No. 10 of SMRT's correspondence dated 9/11/07 as follows: "Where retaining walls are located along open-sided walking surfaces, design wall height is sufficient to meet guard height requirements of Section 1012.2." We understand the requirements of the code for exterior handrails at stairs, and guards

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Business Name:	Contractor Name: TBD	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

- at retaining walls have been satisfied by the design as described in documents
- dated 7/9/07. Further, SMRT's understanding has been asserted by execution of the
- "Certificate of Design" submitted with the building permit application.

With those preconstruction requirements, I'm signing off. Lannie, Please put them in the system.

Mike Nugent
Consulting Plans Examiner
City Of Portland

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.

- Footing/Building Location Inspection:** Prior to pouring concrete
- Re-Bar Schedule Inspection:** Prior to pouring concrete
- Foundation Inspection:** Prior to placing ANY backfill
- 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.

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.

CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

Scott D.
Signature of Applicant/Designee

Date 9.20.07

Salafine
Signature of Inspections Official

Date

CBL: 23344

Building Permit #: 071022



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: 2360 Congress Street		
Total Square Footage of Proposed Structure/Area 54,817		Square Footage of Lot 6.77 acres (295,083 s.f.)
Tax Assessor's Chart, Block & Lot Chart# 233 Block# A0004 Lot# 001 Chart# 233 Block# A0008 Lot# 001	Applicant *must be owner, Lessee or Buyer* Name Maine Turnpike Authority Address 430 Riverside Drive City, State & Zip Portland, ME 04103	Telephone: 207-871-7771
Lessee/DBA (If Applicable) NA	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$11,286,305.00 C of O Fee: \$75.00 Total Fee: \$112,915.00
Current legal use (i.e. single family) NA (undeveloped site) If vacant, what was the previous use? NA (undeveloped site) Proposed Specific use: Office building Is property part of a subdivision? No If yes, please name _____ Project description: 3-story steel frame and masonry veneer office building to be used as administrative headquarters for Maine Turnpike Authority to replace existing facility located at 430 Riverside Drive. Development to include associated new drives, parking (192 spaces), walkways and terraces, utilities, site lighting, signage, and plantings.		
Contractor's name: To be determined – project is currently out to public bid Address: _____ City, State & Zip _____ Telephone: _____ Who should we contact when the permit is ready: Scott Benson, C/O SMRT Telephone: (207) 772-3846. Mailing address: 144 Fore Street, Portland, Maine 04101		

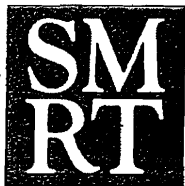
Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

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: Scott L. Benson	Date: August 21, 2007
-----------------------------------	------------------------------

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



ARCHITECTURE
ENGINEERING
PLANNING

September 11, 2007
A/E Project No. 06016

Jeanie Bourke
Inspection Services Division Director
City of Portland
389 Congress Street
Portland, ME 04101

Re: Maine Turnpike Authority Administration Building

Dear Jeanie:

SMRT's responses to comments received from Mike Nugent on 9/10/2007 are as follows:

1. Reference "Building U Factors," "Energy Cost Budget/PRM Summary," and "Project Area Summary" attached.
2. The facility is designated Seismic Use Group III, as noted on S1.1, due to State Police and essential communications facilities. A copy of the "Quality Assurance Plan for Seismic Resistance" is attached. Requirements for contractor's statements of responsibility are described on E32/S1.1. These statements will be submitted to the Building Code Official after they are received and approved by SMRT/Price Engineering, and before beginning of associated work.
3. UL fire resistance rated designs are designated on A5/GI002. Reference S11, S12 & S13 as examples.
4. Non-secure in the context of AE001 means the separation has not been designed to deter intrusion by unauthorized personnel.
5. The occupant load designated by floor on AE001 exceeds the gross floor area, 18,300 s.f. +/-, divided by the occupant load factor for business use, 100 s.f./occupant, because the occupant load designated includes a higher load factor for accessory assembly spaces.
6. The first floor area that contains rooms #117 through #149 has two means of egress via doors #129 and #140. The allowable common path of travel is 100 ft. The maximum design common path of travel appears to be approximately 60 ft.

SMRT

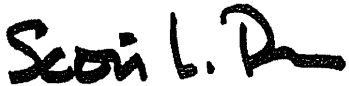
144 Fore Street
PO Box 618
Portland, Maine 04104
☎ 207 772-3846
☎ 207 772-1070

www.smrtinc.com

7. Appliances in Kitchen #235 include a refrigerator, as described on A9/AE218, and a countertop microwave.
8. Design riser height, 6.66," can be calculated based on information pertaining to overall rise and number of risers provided on A7/AE541. Design risers are greater than 4 inches and less than 7 inches in accordance with 1009.3. Design tread depth, 11 inches, is described on A3-A11, E9, E11, J9 & J11/AE401. The design distance between stair posts and edge of glass guard is 1" as described on A10 & G10/AE544. Design baluster spacing is graphically depicted at 4" o.c. on A7, A10, E10 and J10/AE542 for interior exit stairs. Baluster spacing is 3" between bars as described on A1/AE544 for exterior balcony guards.
9. Exterior handrail details are provided on G1/C503 and G1/C504.
10. Relative elevations of top-of-retaining walls and adjacent finish grades of walks, terraces and lawn/planting areas are described on C301. Additional spot grades are described on CG201 and CG202. Where retaining walls are located along open-sided walking surfaces, design wall height is sufficient to meet guard height requirements of Section 1012.2.
11. Locations for tempered glass in doors, frames and sidelights are described on A1/AE611, AE612 & AE613. Tempered glass is specified for use in decorative metal railings in Section 057300.

Please contact me directly either by phone at 772-3846, or e-mail at sbenson@smrtinc.com if you have additional questions or concerns. Please provide specific drawing, specification or code references where possible to clarify and expedite communication.

Best regards,
SMRT, Inc.



Scott L. Benson, AIA
Principal

Encls.: Comments from Mike Nugent - 1 page
Building U Factors - 1 page
Energy Cost Budget/PRM Summary - 1 page
Project Area Summary (Power Density) - 5 pages
Quality Assurance Plan for Seismic Resistance - 1 page

cc: Robert Driscoll, HNTB
Peter Merfeld, MTA
SLB, File 06016/22



ARCHITECTURE
ENGINEERING
PLANNING

Letter of Transmittal

ATTN: Mike Nugent
Consulting Plans Examiner

Company: City of Portland
Planning & Development Dep't.
Inspection Services
389 Congress Street Room 315
Portland, ME 04101
Via 1st Class Mail

Date: September 13, 2007

From: Scott L. Benson, AIA

Re: Responses to Review Comments

Project: Maine Turnpike Authority
Administration Building

Job #: 06016

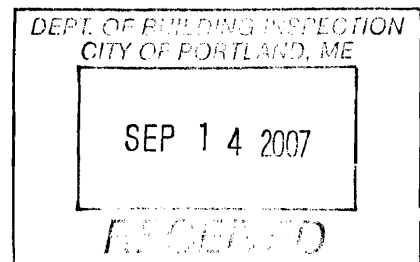
- **We are sending you:** Attached Under separate cover via _____ the following:
- Shop drawings Prints Plans Samples Specifications
- Copy of letter Change Order Other: _____

Copies	Date	No	Description
1	9/11/07		Letter (w/attachments) responding to your review comments

- **These are transmitted as checked below:**
- For approval Approved as submitted Resubmit _____ copies for approval
- For your use Approved as noted Submit _____ copies for distribution
- As requested Returned for corrections Return _____ corrected prints
- For review and comment Other: _____
- For BIDS DUE _____, 20____ Prints RETURNED AFTER LOAN to us

► **Remarks:**

cc: SLB, File 06016/22



144 Fore Street
PO Box 618
Portland, Maine 04104
☎ 207 772-3846
☎ 207 772-1070
www.smrtinc.com

Signature: *D. Warhol for Scott Benson*

Scott Benson

From: Monica Lindsay
Sent: Monday, September 10, 2007 1:21 PM
To: Scott Benson
Subject: FW: ME turnpike permit

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]
Sent: Saturday, September 08, 2007 1:46 PM
To: Jeanie Bourke
Cc: info
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Great plans!

Thanks

Mike Nugent
Consulting Plans Examiner
City of Portland

BUILDING U-FACTORS

By SMRT INC.

Description	ROOM U-FACTORS								Room Mass lb/ft ²	Room Capacitance Btu/lb·°F
	Partition	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Btu/h·ft ² ·°F Summer Window	Winter Window	Wall		

Overall U-Factors			Overall Thermal Transfer Values	
Roof	0.032	Btu/h·ft ² ·°F	Roof (OTTVr)	4.94 Btu/hr·ft ²
Wall	0.108	Btu/h·ft ² ·°F	Wall (OTTVw)	9.54 Btu/hr·ft ²
Building	0.075	Btu/h·ft ² ·°F		

Energy Cost Budget / PRM Summary

By SMRT INC.

Project Name:	Date: September 10, 2007
City:	Weather Data: Portland, Maine

Note: The percentage displayed for the "Proposed/ Base %" column of the base case is actually the percentage of the total energy consumption.

* Denotes the base alternative for the ECB study.

		* Alt-1		
		Proposed Energy 10 ⁶ Btu/yr	/ Base %	Peak kBtuh
Lighting - Conditioned	Electricity	481.7	5	150
Space Heating	Electricity	30.9	0	9
	Gas	4,044.7	42	1,560
Space Cooling	Electricity	491.4	5	287
Pumps	Electricity	141.2	1	22
Heat Rejection	Electricity	73.1	1	36
Fans - Conditioned	Electricity	1,431.8	15	267
Receptacles - Conditioned	Electricity	1,698.8	18	329
Stand-alone Base Utilities	Electricity	1,277.2	13	404
Total Building Consumption		9,670.7		

		* Alt-1
Total	Number of hours heating load not met	479
	Number of hours cooling load not met	0

		* Alt-1	
		Energy 10 ⁶ Btu/yr	Cost/yr \$/yr
Electricity		5,626.0	65,413
Gas		4,044.7	61,081
Total		9,671	126,494

Energy Cost Budget / PRM Summary

By SMRT INC.

Project Name:	Date: September 10, 2007
City:	Weather Data: Portland, Maine

Note: The percentage displayed for the "Proposed/ Base %" column of the base case is actually the percentage of the total energy consumption.

* Denotes the base alternative for the ECB study.

		* Alt-1		
		Proposed Energy 10 ⁶ Btu/yr	/ Base %	Peak kBtuh
Lighting - Conditioned	Electricity	1,357.9	26	155
Space Heating	Electricity	39.7	1	9
	Gas	329.7	6	311
Space Cooling	Electricity	485.4	9	346
Pumps	Electricity	38.9	1	5
Heat Rejection	Electricity	70.6	1	43
Fans - Conditioned	Electricity	595.5	12	135
Stand-alone Base Utilities	Electricity	863.3	17	293
	Gas	1,381.4	27	600
Total Building Consumption		5,162.5		

		* Alt-1
Total	Number of hours heating load not met	0
	Number of hours cooling load not met	0

		* Alt-1	
		Energy 10 ⁶ Btu/yr	Cost/yr \$/yr
Electricity		3,451.4	65,124
Gas		1,711.1	22,559
Total		5,162	87,683

September 11, 2007
A/E Project No. 06016

Maine Turnpike Authority Administration Building
Portland, Maine

Quality Assurance Plan for Seismic Resistance

Systems Description:

- Roof diaphragm: Steel roof deck.
- Roof load transfer mechanism: Puddle welds to framing.
- Primary lateral force resisting elements: Diagonally braced structural steel frames.
- Third and second floor diaphragms: Composite steel deck and concrete slab.
- Foundation floor load transfer mechanism: Column uplift loads are resisted by headed anchor rods through column base plates at braced bays. Horizontal loads are transferred to foundation through shear lugs welded to the column base plates at braced bays.
- Foundations: Walls and footings are capable of transferring lateral loads to surrounding soils that are resisted by friction and passive earth pressure. Uplift loads are transferred to the foundation walls and footings, which provide adequate dead load to retain stability. Where additional foundation capacity is needed to resist lateral or uplift load, anchorage to bedrock is provided by steel reinforcement dowels grouted into the bedrock surface. Downward vertical loads are supported by conventional spread footings without exceeding the allowable soil bearing pressure.

Inspection and Testing:

Inspection and testing requirements are incorporated into the "Schedule of Special Inspections" and the project specifications. They include inspection of deck welds, shear connector welds, member sizes and connection details at diagonally braced column bays, inspection of field and shop welds, inspection of anchor bolt installation, verification of material certifications and measuring of concrete strength.

Inspection and testing reports shall be distributed immediately after each day's activities. Copies shall be provided to SMRT, HNTB, Price Engineers, the Owner, the General Contractor, and the Building Code Official.

Project Area Summary

Date Sep 11, 2007
Project Name Maine Turnpike Authority
Project Number 06016-00
Project File 01016 - MTA Interior.PLZ
Group Name <All Groups>
Power Density 0.98 Watts/Sq. Ft

Project Area Summary

AREA NAME	I/O	DIMENSIONS	LUMS/ASMS	WATTS/SQ FT	QTY
101 Fulfillment	IN	23.40x11.40x9.00Ft	A (Lum) (3)	1.01	1
102 Mens Toilet	IN	24.27x10.78x9.00Ft	D (Lum) (1) E (Lum) (6) L (Lum) (1)	1.19	1
103 Women's Tlt	IN	24.27x10.78x9.00Ft	D (Lum) (1) E (Lum) (6) L (Lum) (1)	1.17	1
106 T/D	IN	8.80x6.00x11.00Ft	C (Lum) (1)	1.21	1
107 Elec	IN	8.70x6.10x11.00Ft	C (Lum) (1)	1.21	1
108 Jan.	IN	6.40x2.80x11.00Ft	P (Lum) (1)	2.01	1
109 Supplies	IN	6.40x2.70x11.00Ft	P (Lum) (1)	2.08	1
110 Trans Storg	IN	23.90x11.80x9.00Ft	B1 (Lum) (3)	0.68	1
111,170 Corr.	IN	74.91x32.07x9.00Ft	B1 (Lum) (6) K (Lum) (3)	1.12	1
112 Comp. Rpr	IN	19.42x35.11x9.00Ft	A (Lum) (7)	1.09	1
113 Comp. Stor.	IN	10.75x10.73x9.00Ft	B1 (Lum) (1)	0.57	1
114 Server	IN	23.30x36.60x11.00Ft	C (Lum) (13)	0.98	1
115 Bottle	IN	8.00x6.40x9.00Ft	C (Lum) (1)	1.25	1
116 Fare Collect	IN	24.60x11.93x9.00Ft	C (Lum) (3)	0.82	1
117 Sec. Evid	IN	24.50x11.60x9.00Ft	C (Lum) (3)	0.68	1
118 Interview	IN	13.10x15.90x9.00Ft	A (Lum) (2)	0.86	1
119 Office	IN	7.60x10.70x9.00Ft	A (Lum) (1)	1.11	1
120 Office	IN	7.50x10.70x9.00Ft	A (Lum) (1)	1.12	1
121 Office	IN	7.60x10.60x9.00Ft	A (Lum) (1)	1.12	1
122 Corr.	IN	39.03x5.86x9.00Ft	K (Lum) (4)	1.40	1
123 Conf. Train	IN	13.60x19.40x9.00Ft	A (Lum) (3)	1.02	1

Prepared By:

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 SMRT, Inc
 144 Fore St.
 PO Box 618
 Portland, ME 04104

Prepared For:

Code Compliance

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LitePro

Project Area Summary

(continued)

AREA NAME	I/O	DIMENSIONS	LUMS/ASMS	WATTS/SQ FT	QTY
124 Storage	IN	9.60x5.30x9.00Ft	B1 (Lum) (1)	1.26	1
125 Jan	IN	8.00x3.60x9.00Ft	P (Lum) (1)	1.25	1
126 Office	IN	7.40x10.70x9.00Ft	A (Lum) (1)	1.14	1
127 Office	IN	7.50x10.50x9.00Ft	A (Lum) (1)	1.14	1
128 Office	IN	11.70x16.70x9.00Ft	A (Lum) (2)	0.92	1
129,130 Corr	IN	17.46x16.60x9.00Ft	K (Lum) (4)	1.35	1
131 Toilet	IN	8.00x6.60x9.00Ft	B1 (Lum) (1)	1.21	1
132 Recept.	IN	11.60x7.90x9.00Ft	A (Lum) (1)	0.98	1
133 Toilet	IN	8.00x6.60x9.00Ft	B1 (Lum) (1)	1.21	1
134 Workroom	IN	12.10x11.20x9.00Ft	A (Lum) (2)	1.33	1
135 Womens Shwr	IN	12.11x8.04x9.00Ft	B (Lum) (1)	1.00	1
136 Men's Shwr	IN	12.14x8.00x9.00Ft	B (Lum) (1)	1.00	1
137,140,143 Cor	IN	22.88x41.92x9.00Ft	K (Lum) (5)	1.04	1
138 Breakroom	IN	12.00x14.20x9.00Ft	B (Lum) (2)	1.06	1
139 Lockers	IN	12.10x9.10x9.00Ft	B1 (Lum) (2)	1.16	1
141 Comp	IN	6.50x6.00x9.00Ft	C (Lum) (1)	1.64	1
142 Troopers	IN	17.40x11.00x9.00Ft	A (Lum) (2)	0.94	1
144 Supplies	IN	6.70x10.10x9.00Ft	B1 (Lum) (1)	0.95	1
145 Sallyport	IN	22.70x14.00x10.00Ft	C (Lum) (6)	1.21	1
146 Armory	IN	6.40x14.00x8.00Ft	C (Lum) (1)	0.71	1
147 interview	IN	11.10x11.40x9.00Ft	A (Lum) (2)	1.42	1
148 Intox	IN	10.10x11.70x9.00Ft	A (Lum) (2)	1.52	1
149 Toilet	IN	7.67x11.70x9.00Ft	H (Lum) (1)	0.78	1
150 Vest	IN	7.40x6.90x9.00Ft	F (Lum) (1)	0.69	1
151 Corr	IN	9.96x36.65x9.00Ft	E (Lum) (1) K (Lum) (3)	0.95	1
152 Office	IN	15.10x11.00x9.00Ft	A (Lum) (2)	1.08	1
153 Open Office	IN	39.19x35.25x9.00Ft	A (Lum) (9)	0.85	1
154 Breakrm	IN	33.90x30.08x9.00Ft	K (Lum) (12) Q (Lum) (4)	0.86	1
155 Vending	IN	11.35x12.67x9.00Ft	K (Lum) (2)	0.90	1
156-58 Corr.	IN	84.67x28.81x9.00Ft	F (Lum) (2) K (Lum) (11)	1.05	1
159 Conf.	IN	12.40x12.60x9.00Ft	A (Lum) (2)	1.15	1
160 Elev. Mach.	IN	8.70x8.40x9.00Ft	B1 (Lum) (1)	0.88	1
161 Open Office	IN	29.38x35.25x9.00Ft	A (Lum) (8)	0.86	1
162 Office	IN	15.50x10.80x9.00Ft	A (Lum) (2)	1.08	1
163 Cust. Stor.	IN	17.92x16.93x9.00Ft	B1 (Lum) (3)	0.86	1
164 Corr.	IN	15.04x36.68x9.00Ft	E (Lum) (2) K (Lum) (3)	0.98	1
165 Vest.	IN	7.40x6.90x9.00Ft	F (Lum) (1)	0.69	1
166 Supplies	IN	20.00x13.40x9.00Ft	B1 (Lum) (4)	0.96	1
167 Bldg. Servs	IN	9.57x14.32x9.00Ft	A (Lum) (2)	1.37	1
168 Shipping	IN	31.29x21.11x11.00Ft	C (Lum) (6)	0.60	1
169 Mech	IN	24.60x25.50x11.00Ft	C (Lum) (6)	0.61	1
171 Tel/Data	IN	9.80x11.50x11.00Ft	C (Lum) (2)	1.14	1
172 Elec	IN	14.40x11.60x11.00Ft	C (Lum) (2)	0.77	1
173 File Stor.	IN	30.00x31.90x11.00Ft	C (Lum) (9)	0.60	1
174 Plan Stor.	IN	25.80x34.70x9.00Ft	A (Lum) (9)	0.90	1