City of Portland, Maine - Building or Use Permit Application	ding or Use Pe	rmit Application	Permit No:	Issue Date:	CBL:
Location of Construction: Company No. Construction: Cons	207) 8/4-8/03, F	ax: (207) 874-8716	06-0706	05/12/2006	027 C010001
21 CHESTNUT ST	CHESTNUT STI	CHESTNUT STREET LOFTS LLC	Owner Address: ONE INDIA ST		Phone:
Business Name:	Contractor Name: Allied/Cook Construction		Contractor Address: PO Box 1396 Portland		200777777000
Lessee/Buyer's Name	Phone:	-	Permit Type: Foundation Only/Residential	MAY I	2 2006 Zone:
Past Use: Parking lot	Proposed Use: 8 story/37 Unit Condo Project Chestnut Street Lofts		Permit Fee: Cost of Co	Cost of Work OF SECTION: Approved INSPECTION: Denied Use Grown	ONE TONE
Proposed Project Description: Foundation Only		31 00	Signature:	Signature:	Shirt Comp
		- F1	Action: Approved Approved w/Condi	ES DISTRICT (P.A.D.) Approved w/Conditions	nditions Denied
		100	Signature:	D	Date:
mjn 05/12/2006	05/12/2006		Zoning Approval	proval	A MANUAL AND
 This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 	 	Special Zone or Reviews Shoreland	Zoning Appeal Variance	peal	Historic Preservation Not in District or Landmark
Building permits do not include plumbing septic or electrical work.		Wetland	Miscellaneous		Does Not Require Review
 Building permits are void if work is not started within six (6) months of the date of issuance. 	 		Conditional Use		Requires Review
False information may invalidate a building permit and stop all work	·	Subdivision	Interpretation		Approved
		Site Plan	Approved		Approved w/Conditions
	∀	Maj 🔲 Minor 🔲 MM 🔲	Denied		Denied
	Date:	е:	Date:	Date:	Total Annual Control of the Control
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.	cord of the named nake this applicati work described in a covered by such p	CERTIFICATION property, or that the pon as his authorized ag the application is issuesermit at any reasonable	roposed work is authogent and I agree to coned. I certify that the cole hour to enforce the	orized by the own ofform to all applinged official's auth	the owner of record and that tll applicable laws of this al's authorized representative n of the code(s) applicable to
SIGNATURE OF APPLICANT		ADDRESS	1977	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE	RK, TITLE	Triple Prince		DATE	PHONE

DISPLAY I S CARD 9 PRINCIPAL FRONTAGE OF WORK

OT OF TORTLAND

Please Read Application And Notes, If Any, Attached

PERIMINAL PERIMINAL PRIMINAL P

Permit Number: 060706

Other Health Dept. Fire Dept. Appeal Board this department. the construction, maintenance and of the provisions of the Statutes of provided that the person or persons AT 21 CHESTNUT ST has permission to This is to certify that such information. and grade if nature of work requires Apply to Public Works for street line OTHER REQUIRED APPROVALS Foundation Only CHESTNUT STREET LOF PENALTY FOR REMOVING THIS CARD ificatio n and v pre this ed or e of buildings and UR NO ine and of the LLC /Allied/Cook Construct en perm lding or insp osed-in Tion on proc rt there èn mus nances of the ances of the City of Portland regulating actures, and of the application banking in epting this permit shall comply with all 027 C01000 ing or part thereof is occupied. procured by owner before this build-A certificate of occupancy must be PERMIT ISSUED

2) The conditions contained in the review by Jim Seymour, Development Review Coordinator, Sebago Technics, Inc. Dated January 20, 2006 shall be met prior to the issuance of a building permit.	1) All proposed easements shall be finalized before the release of the recording plat and recorded with the plat.	Note:	Planning Status: Approved with Conditions Reviewer: Barbara Barhydt	3) Maintain egress from Merrill during demolition and construction.	2) Life safety plan needed for proposed construction	I) Water main to be 8 inch.	Note:	Disc.	wearement: white infent	Miles Nices	8 story/37 Unit Condo ProjectChestnut Street Lofts Foundation Only	Proposed Use:	Foundation Only/Residential	Lessee/Buyer's Name Phone: Permit Type:	Allied/Cook Construction	Business Name: Contractor Name: Contractor Address:	UT ST CHESTNUT STREET LOFTS LLC	Location of Construction: Owner Name: Owner Address:	207) 874-8716 06-0706	City of Portland, Maine - Building or Use Permit Permit No: Date Ap
dinator, Sebago Technics, Inc.			ydt Approval Date:			Ç	Approval Da		Approval Da		TOM.		nly/Residential		rtland			Dh.	05/12/2006	Date Applied For: C
ated January		Ok to Issue:	01/24/2006			Ca to resuct.	09/28/2005	The state of the s	te: 05/12/1006 Ok to Issue: ✓			***************************************			(207) 772-2888	Phone	r HOWC.		027 C010001	CBL:

4 The drvieway apron shall be brick unless the City's sidewalk Policy is revised prior to installation

Planning Board will be submitted for the Planning Board's signature.

The final recording plat meeting the requirements of Portland's Subidivision Ordinance and listing conditions imposed by the

 ω

- 5 The applicant shall submit evidence that two off-site parking spaces are available for the Chestnut Street Church prior to the reuse to comply with the City's zoning ordinance for the first floor commercial uses prior to the issuance of a certificate of occupancy. of this structure or as part of a change of use review. The applicant shall submit evidence that six parking spaces have been secured
- 9 City's communication system. 2. The applicant will continue to explore options to consolidate the overhead utilities onto one pole 1. The applicant shall coordinate with the City regarding the relocation of the CMP pole and the timing of any distruption to the
- \mathcal{L} 20, 2006 shall be met prior to the issuance of a building permit. The conditions contained in the review by Jim Seymour, Development Review Coordinator, Sebago Technics, Inc. Dated January
- ∞ first floor commercial uses prior to the issuance of a certificate of occupancy. The applicant shall submit evidence that seven parking spaces have been secured to comply with the City's zoning ordinance for the
- ૭ The Planning Board voted unanimously to grant the following waivers:
- Church and will not produce unacceptable levels of glare and/or light trespass.

 2. The proposed increased setback from the build-to-line (from five feet to eleven feet for roughly 73 feet along Cumberland The proposed Granvill lighting fixtures will be compatible with the existing architectural context of the historic Chestnut Street
- standards of 14-220 (c) Avenu and twelve feet on Chestnut Street) does meet the Stie Plan Standards of Section 14-526 (a) (16) and by reference the zoning
- compact parking spaces of 8.5 by 19 feet. Planning Board waives the City's Technical Standards for parking lots to allow the proposed parking aisle of 22 feet and twelve Upon the recommendation of the City's Traffic Engineer and the extended duration times expected for the residential uses, the

1			
Location of Construction;	Owner Name:	Owner Address:	Phone:
21 CHESTNUT ST	CHESTNUT STREET LOFTS LLC ONE INDIA ST	ONE INDIA ST	-
Business Name:	Contractor Name:	Contractor Address:	Phone
TOTAL	Allied/Cook Construction	PO Box 1396 Portland	(207) 772-2888
Lessee/Buyer's Name	Phone:	Permit Type:	
		Foundation Only/Residential	
In The applicant will conduct a next	In The applicant will conduct a most and the second		
	CONTRACTOR OF THE PARTY OF THE		!

- 5 The applicant will conduct a post occupancy traffic signal warrant study of the intersection of Chestnut Street and Cumberland Avenue, which shall be coordinated with the Department of Public Works.
- All required licenses for the foundation footings shall be obtained piror to the issuance of a building permit.
- 12prior to the issuance of a buildng permit. The construction mobilization plan shall be revised to maintain egress from Merrill Auditorium during demolition and construction
- ű □If the applicant proceeds with the roof-top deck, then the final roof-top deck elevations shall be submitted to the City for review prior to the issuance of a building permit. Carrie Marsh, Urban Designer, has reviewed the rooftop deck and approves the elevation as submitted on Sheet A2.0 Elevations, Revision #2.

Comments:

5/12/2006-mjn: Zoning and Fire previously approved, see permit #060492

Approved by Planning per Jay Reynolds 5/12/06



From: Penny Littell

<u></u> Eric Labelle; Jay Reynolds; MICHAEL NUGENT 5/11/2006 3:38:46 PM

Date:

Subject: Fwd: Chestnut Street Lofts LLC

we are all set

>>> "Cito Selinger" <mselinger@curtisthaxter.com> 5/11/2006 3:32:47 PM >>> At the request of Richard Berman, I'm sending you both a copy of the recorded License Agreement.

Member of the firm Maurice A. Selinger, III

Curtis Thaxter Stevens Broder & Micoleau LLC

One Canal Plaza

Portland, Maine 04101

(207) 774-9000 (207) 775-0612 (fax)

mas@curtisthaxter.com http://www.curtisthaxter.com/>

distribute or disseminate the message or any file attachments, and you must immediately delete the same from your computer and any other storage media. message and file attachments, if any, erroneously, you must not read, and use only by the intended recipient. If you should receive this attachment may be privileged or confidential and is intended for receipt Note: The information contained in this message and in any file

communication does not meet those requirements. Any statements in this communication regarding tax matters are not intended to be used, and may not be used, by any recipient for the purpose of avoiding Internal Revenue Service (IRS) penalties. IRS has issued requirements governing the formality and level of detail required in written analysis to be relied upon to avoid penalties; this

20121 PK-23526-P91 117

LICENSE AGREEMENT

Chestnut Street and (iii) a parcel of land described in a deed to the City recorded in the Cumberland County Registry of Deeds in Book 2850, Page 79, all in Portland, Maine (collectively "City's Land"). City's Land abuts certain land of Grantee's located at Cumberland Avenue and Chestnut Street in Portland, Maine, described in Exhibit A attached hereto and made a part hereof, which were conveyed to Grantee by deed of Chestnut Street United Methodist Church dated January 17, 2006 and recorded in said Registry of Deeds in Book 23595, Page 242 following conditions. FOR VALUABLE CONSIDERATION, the receipt and sufficiency of which is hereby acknowledged, the CITY OF PORTLAND, a Maine body corporate and politic, with a mailing address of City Hall, 389 Congress Street, Portland, Maine 04101 (the "City"), hereby GRANIS to CHESTNUT STREET LOFTS LLC, a Maine limited liability company with a place of (collectively "Grantee's Land"), solely for the purposes described herein, and subject to the the City: (i) the northwesterly side of Cumberland Avenue, (ii) the southwesterly side of business in Portland, Maine and mailing address c/o Berman Associates, One India Street, Portland, Maine 04101 ("Grantee") a revocable license to occupy the following land owned by

described below: The license granted herein is given for the following purposes and is located as

A. A license, revocable as provided below, for the encroachment of improvements onto City's Land, extending as follows:

more or less, along the northeasterly sideline of Cumberland Avenue, and (iii) running southeasterly from the northernmost corner of Grantee's Land along the boundary of Grantee's Land and that portion of City's Land described in the deed recorded in Book sideline of Chestnut Street; (ii) running northeasterly from the northeast corner of Chestnut Street and Cumberland Avenue a distance of one hundred fourteen feet (114'), 2850, Page 79 a distance of approximately sixty (60) feet, Sixty inches (60") at approximately six feet (6") below grade, from Grantee's Land onto Cumberland Avenue a distance of sixty feet (60'), more or less, along the northerly City's Land (i) running southeasterly from the northeast corner of Chestnut Street and for the purpose of permitting

March 3/, 2006

f Portland seph E. Gray, City Manager of the City instrument to be his free act and deed

ommission expires: y Public/Attorney at Law

Sozia T. Bean Notary Public, Maine

CUMBERLAND, SS STATE OF MAINE

of Portland as aforesaid, and acknowledged the foregoing in his said capacity and the free act and deed of the City o PERSONALLY APPEARED the above named Jo

Before me

Print My c Notal

Doco: 20121 Bk:23826 Ps: 118

- Portland as an additional insured with respect to such coverage or shall obtain a contractual liability endorsement covering the obligations of Licensees under the terms of this license. covering claims for bodily injury, death and property damage and shall either name the City of 3. Licensees shall procure and maintain commercial general liability insurance in an amount of not less than Four Hundred Thousand Dollars (\$400,000) combined single limit,
- Grantee's Land. This license is assignable to any subsequent owners of the buildings located on
- planning board or planning authority, as applicable, has approved any amended site plan. cease to exist on the site at Chestnut Street and Cumberland Avenue for a period of one year or encroachments described above that are being licensed under this agreement, provide the of connecting the site plans affached hereto as Exhibit B more accurately to show the shown on such plans or any amendments thereto are destroyed, removed or otherwise thereafter 5. This license may be revoked upon six (6) months written notice by the City in the event that: 1) the buildings shown on the attached plans (Exhibit B) fail to be constructed substantially in accordance with such plans or any amendments thereto; 2) the buildings as City acknowledges that Grantee may amend this Agreement unilaterally for the purpose
- between the parties. This License Agreement supersedes and replaces all prior similar agreements

3/ day of March, 2006. IN WITNESS WHEREOF, the parties have caused this Agreement to be executed this

CITY OF PORTLAND

/Joseph E. Gray

CHESTNUT STREET LOFTS LLC

Richard Berman, its sole Member

20121 Bk=23826 Ps : 119

STATE OF MAINE CUMBERLAND, SS

March 3/, 2006

PERSONALLY APPEARED the above named Joseph E. Grzy, City Manager of the City of Portland as aforesaid, and acknowledged the foregoing instrument to be his free act and deed in his said capacity and the free act and deed of the City of Portland.

Before me,

Notary Public/Attorney at Law

Print name:

My commission expires:

O;\MAS\05180 Berman\Chestnut Street\Tite\City License Agreement 3_1_08.doc

Dece: 20121 Bk:23826 Pg: 120

::

EXHIBIT A

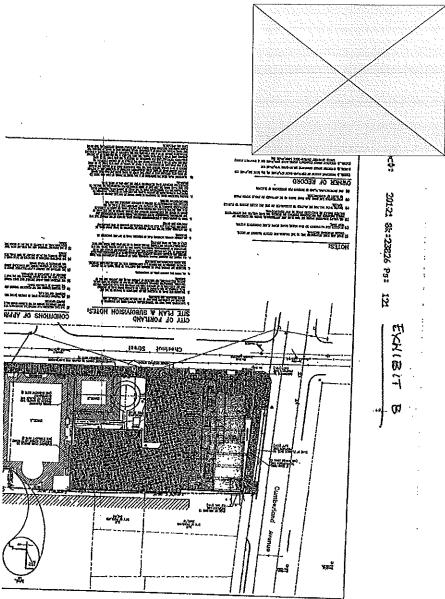
A certain lot or parcel of land, with any structures and improvements thereon, located on the northeasterly side of Chestnut Street and the southeasterly side of Comberland Avenue, in the City of Portland, County of Cumberland, State of Maine, bounded and described as follows:

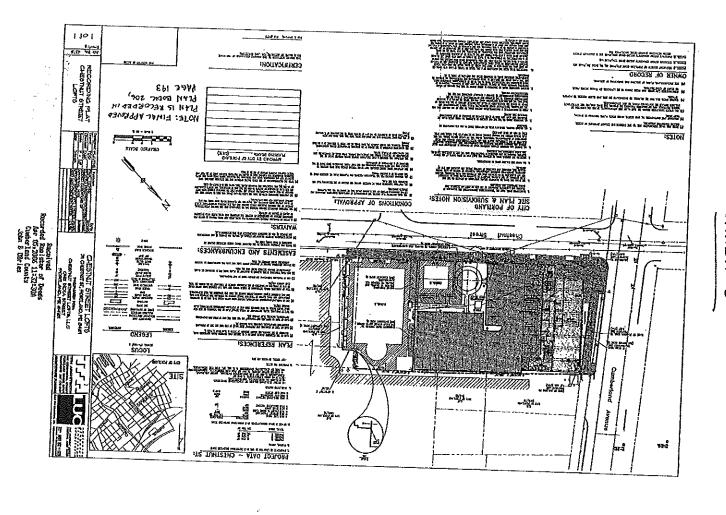
southeasterly sideline of Cumberland Avenue. Thence: Beginning at a point and the intersection of the northeasterly sideline of Chestnut Street and the

- 1) N 50°24′16" E.by said Cumberland Avenue a distance of one hundred thirteen and 43/100 (113.43) feet to a point and the westerly corner of land now or formerly of the City of Portland as described in a deed recorded in the Cumberland County Registry of Deeds in Book 2850, Page
- 2) S 46°16'58" E by said land of the City of Portland and other land now or formerly of the City of Portland as described in a deed recorded in said Registry in Book 845, Page 93 a distance of one hundred fifty-Three and 19/100 (153.19) feet to a point and other land now or formerly of the City of Portland as described in a deed recorded in said Registry in Book 1596, Page 10.
- 3) S 43°27'58" E by said land of the City of Portland a distance of twenty-six and 52/100 (26.52) feet to a point and the northerly comer of Parcel A as delineated on a plan entitled "Recording Plat Chestmut Street Lofts" to be recorded in said Registry.
- the easterly corner of Parcel B as delineated on said plan. 4) S 45°34'31" W by said Parcel A a distance of seventy-nine 69/100 (79.69) feet to a point and
- 5) N 45°00′58" W by said Parcel B a distance of forty and 40/100 (40.40) feet to a point
- 6) S 45°12'24" W by said Parcel B a distance of thirty-six and 48/100 (36.48) feet to a point on the northeasterly sideline of said Chestnut Street.
- 7) N 44°47'39" W by said Chestnut Street a distance of one hundred forty-nine and 02/100 (149.02) feet to the point of beginning.

Bearings are referenced to grid north, Maine State Plane Coordinate System, West Zone.

O:\MAS\05180 Berman\Chestnut Street\Tite\City License Agreement.doc





的一天 20121 ዉ Bk:23826 Pg:

Page 6

Statement of Special Inspections

CASE Form 101 - Statement of	Signadre 94/11/06	Owner's Authorization:	Signature Thuman	David J. Tetreault, P.E. (type or print name)	Prepared by:	9	A Final Report of Special Inspections documenting c correction of any discrepancies noted in the inspections and Occupancy.	Interim reports shall be submitted to the Building Responsible Charge.	The Special Inspection Coordinator shall keep records the Building Official and the Registered Design discrepancies shall be brought to the immediate discrepancies are not corrected, the discrepancies shall be Registered Design Professional in Responsible Crithe Contractor of his or her responsibilities.	This Statement of Special Inspections is submitted as a condition for Special Inspection and Structural Testing requirements of the Building Inspection services applicable to this project as well as the name of the identity of other approved agencies to be retained for conduct Statement of Special Inspections encompass the following disciplines: Mechanical/Electural Other	Design Professional in Responsible Charge: $\it L$	Owner: Chesmut Street LLC, One India Street, Portland, ME 04101	Location: 29 Chestnut Street, Portland, ME	Project: Chestmut Street Lofts
Statement of Special Inspections • ©CASE 2004	Signature	Building Official's Acceptance:	4/10/06 Date Design Professional Seal	DAVID J. TETREAULT	or ber attached schedule.	tion are solely the responsibility of the Contractor.	A <i>Final Report of Special Inspections</i> documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.	ng Official and the Registered Design Professional in	The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.	This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompass the following disciplines: Mechanical/Electrical/Plumbing	David J. Tetreault, P.E.	t, Portland, ME 04101		

Schedule of Inspection and Testing Agencies

-
77
Ö
nis statement of Spec
ស
Ħ
·Ψ
ੜ
ወ
בַ
nent of Sp
<u>v</u> ,
Q
œ
Ω
ω
Xal Ins
<u>(</u> 0
ਲੂ
pecial Inspections / Quality Assurance I
- 24
ᅩ.
~~
ល
~
\sim
ຼ
Ç
괊
큐
~
`
10
ശ്
ë
- 77
뽀
Ξ
Ж
ty Assurance Plan inc
ש
<u> </u>
≒
Ξ,
\supset
0
=
豆
O
des th
₾
₹.
₹₽
the follow
$\stackrel{\smile}{\sim}$
ਨ
₹
S.
Ţ
lowing t
σ
č
=
Ω,
3.
Ö
<u></u>
Ľ,
(i)
#
ūΫ́
∌
ms:

 Soils and Foundations Cast-in-Place Concrete Precast Concrete Masonry Structural Steel Cold-Formed Steel Framing
Spray Fire Resistant Material Wood Construction Exterior Insulation and Finish System Mechanical & Electrical Systems Architectural Systems Special Cases

Special Inspection Agencies	Firm	Address Telephone
1. Special Inspection Coordinator	Structural Design Consulting, Inc.	22 Oakmont Drive Old Orchard Beach, ME 04064 207-934-8038
2. Inspector	Sebago Technics	One Chabot Street P.O. Box 1339 Westbrook, ME 04098-1339 207856-0277
3. Inspector	S.W Cole Engineering, Inc	286 Portland Road Gray, ME 04039 (207) 657-2866
4. Testing Agency		
5. Testing Agency		
6. Other		
Note: The inspector and today		

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

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category C

Quality Assurance Plan Required (Y/N) Y

Description of seismic force resisting system and designated seismic systems:

The seismic force resisting system consists of eccentrically braced fames (non-moment connections) as shown on Sheet S2.0.

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)

Wind Exposure Category

C

Quality Assurance Plan Required (Y/N)

N

The building is in wind exposure Category C with a 3-sec gust basic wind speed less than 110 mph therefore a quality assurance plan for wind is not required (IBC/2003 Section 1706.1.1.2).

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Qualifications of Inspectors and **Testing Technicians**

requested. The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if

Key for Minimum Qualifications of Inspection Agents:

performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule. When the Registered Design Professional in Responsible Charge deems it appropriate that the individual

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

Engineering examination

American Concrete Institute (ACI) Certification

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

ACISTI Strength Testing Technician

American Welding Society (AWS) Certification

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

American Society of Non-Destructive Testing (ASNT) Certification

Non-Destructive Testing Technician - Level II or III.

International Code Council (ICC) Certification

Structural Masonry Special Inspector

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

ICC-RCS Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT NICET-GET

Concrete Technician – Levels I, II, III & IV Soils Technician - Levels I, II, III & IV Geotechnical Engineering Technician - Levels I, II, III & IV

MDI-FIFS Exterior Design Institute (EDI) Certification EIFS Third Party Inspector

Other

2 Inspect soils below footings for adequate and consistency with geotechnical report. Inspect removal of unsuitable material an subgrade prior to placement of controlled	Item	Req'd Y/N	Agency # (Qualif.)	Scope
Controlled Structural Fill N Deep Foundations N Load Testing N Other N	1	Y	2	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.
Controlled Structural Fill N Deep Foundations N Load Testing N Other N				Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill
Deep Foundations Load Testing Cother	2. Controlled Structural Fill	N		
Deep Foundations Load Testing Other				
Load Testing Other		N		
Load Testing Other	1			
Other		N		
Cher				
		×		

11 4	Req'd Y/N	Agency # (Qualif.)	Scope
i. Mix Design	Y	ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2. Material Certification	X	I	Review certified mill test reports on reinforcing steel
3. Reinforcement Installation	Y	ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
4. Post-Tensioning Operations	N		
5. Welding of Reinforcing	N		
6. Anchor Rods	Ÿ	ACI-CCI ICC-RCSI	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
7. Concrete Placement	X	ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
8. Sampling and Testing of Concrete	Y	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
9. Curing and Protection	X	ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10. Other:			

Masonry

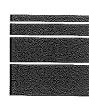
Required Inspection Level: 1 1 2

Page 7 of 8

		where the control of	
Inspect size, location, spacing and embedment of dowels, anchors and ties.	ICC-SMSI	×	10. Alichors and Hes
Test compressive strength of mortar and grout cube samples (ASTM C780). Test compressive strength of masonry prisms (ASTM C1314).	ICC-SMSI	٣	Strength
Inspect cold weather protection and hot weather protection procedures. Verify that wall cavities are protected against precipitation.	ICC-SMSI	¥	ı
Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.	ICC-SMSI	Ą	•
		×	
Inspect placement, positioning and lapping of reinforcing steel.	AWS-CWI	_	
Inspect construction of mortar joints including tooling and filling of head joints.	ICC-SMSI		1
Inspect size, layout, bonding and placement of masomy units.	ICC-SMSI		
Inspect proportioning, mixing and retempering of mortar and grout.	ICC-SMSI		2. Initially of Mortal and Grout
Review certified mill test reports on reinforcing steel	.	~	
1	Agency # (Qualif.)	Req'd Y/N	Item

1	o wetai Deck	1	I		4. Boung	i	1	l	11 4
*	¥ ¥	Y	Y		*	N	¥.	¥	Req'd Y/N
	AWS-CWI	PE/SE	AWS/AISC- SSI ICC-SWSI	AWS-CWI ASNT	AWS/AISC- SSI ICC-SWSI		AWS/AISC- SSI ICC-SWSI	AWS/AISC- SSI ICC-SWSI	Agency # (Qualif.)
	Inspect welding and side-lap fastening of metal roof and floor deck.	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.	Inspect size, number, positioning and welding of shear connectors. Inspect suds for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees.	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds. Ultrasonic testing of all full-penetration welds.	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence.		Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes	Review shop fabrication and quality control procedures.	Scope





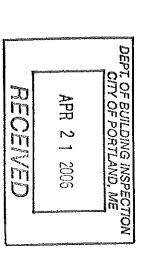
Report on Final Design Subsurface and Foundation Investigation

Proposed Residential Building Portland, Maine **Chestnut Street**

for

Berman Associates One India Street Portland, ME 04101

December 6, 2005



Sebago Technics

Engineering Expertise You Can Build On

December 6, 2005 05096

One Chabot Street P.O. Box 1339 Westbrook, Maine 04098-1339 Ph. 207-856-0277 Fax 856-2206

sebagotechnics.com

Mr. Richard Berman Berman Associates One India Street Portland, ME 04101

Proposed Residential Building, Chestnut Street, Portland, Maine Report on Final Design Subsurface and Foundation Investigation

Dear Richard:

the proposed residential building on Chestnut Street in Portland, Maine. performed in accordance with our proposal dated September 22, 2005 This report presents the results of our final design subsurface and foundation investigation for These services were

recommendations for foundation design and construction considerations are presented below. undisturbed, naturally deposited soils or on compacted structural fill placed after removal of unsuitable soils. In summary, we recommend that the building be supported on spread footings bearing on the In addition, a slab-on-grade may be used for the lowest floor.

Introduction

include paved parking and green space proposed building will have a rectangular shape with a plan area of approximately 3,250 occupied by parking and existing buildings, including the church. the proposed building is presently a bituminous paved parking lot. The remainder of the site is and Chestnut Street in Portland, Maine, the so-called Chestnut Street Church site. The area of The proposed site is located at the southeast corner of the intersection of Cumberland Avenue It will be eight stories in height with a full basement. We understand that the Site development will

Subsurface Explorations

Previous Borings

borings. MTB backfilled the borings with the drilled material. borings and prepared the logs included in Appendix A. below ground surface varying from 14.4 feet to 17.0 feet. Sebago Technics monitored the locations shown on Sheet 1, Subsurface Exploration Plan. MTB drilled the borings to depths On April 26, 2005, Maine Test Borings, Inc. (MTB) drilled two borings, B1 and B2, at Table I summarizes the results of

was measured at each sample interval in accordance with ASTM Test D1586 generally recovered at 5-foot intervals in each boring. Borings were drilled using 2.5-inch inside diameter hollow stem augers. Standard Penetration Resistance (N) Samples were

surface contours at the plotted locations. determined the ground surface elevations at borings by linear interpolation between ground Sebago Technics determined the locations of borings by pacing from existing site features.

Present Borings

on Sheet 1. MTB drilled the borings to depths below ground surface of 17.0 feet and 15.5 drilled material. Appendix B. Table I summarizes the results of borings. MTB backfilled the borings with the feet, respectively. On October 10, 2005, MTB drilled two additional borings, B101 and B102, at locations shown Sebago Technics monitored the borings and prepared the logs included in

was measured at each sample interval in accordance with ASTM Test D1586 generally recovered at 5-foot intervals in each boring. Borings were drilled using 2.5-inch inside diameter hollow stem augers. Standard Penetration Resistance (N) Samples were

surface contours at the plotted locations determined the ground surface elevations at borings by linear interpolation between ground Sebago Technics determined the locations of borings by pacing from existing site features. We

may result in a change in groundwater conditions at the exploration location. at other locations may differ from those encountered in the test borings. encountered at the locations and during the times indicated on the logs. The boring logs and related information depict the subsurface conditions and water levels Subsurface conditions The passage of time

Subsurface Conditions

descriptions of the strata encountered are presented below in order of increasing depth below ground surface. The borings encountered four principal soil units at the site below the bituminous pavement: may be absent at specific locations. sand, Due to the complexity of the deposition process, strata thickness will vary and marine clay and glacial till. Encountered thickness and generalized

fragments; to stiff, gray lean CLAY (CL). Fill - Fill consists of loose, gray brown to brown, silty SAND with gravel (SM) with brick Encountered thickness varied from 2.0 feet to

thickness was 6.0 feet. (SM) with occasional clay seams. Marine Sand - Marine sand encountered in B102 consists of loose, brown to gray silty SAND A petroleum odor was noted in the sand layer. Encountered

Marine Clay - Marine clay consists of stiff to very stiff, gray brown to gray, lean CLAY Encountered thickness varied from 7.5 feet to 8.5 feet. (CL) with frequent fine sand seams. A petroleum odor was noted in the clay in B1.

Glacial Till - Glacial till consists of dense to very dense, brown to gray silty SAND with Borings penetrated up to 5.4 feet into the glacial till.

surface of 14.4 feet and 15.5 feet, respectively. Borings B2 and B102 encountered refusal, interpreted to be bedrock, at depths below ground

reflect the stabilized groundwater level. In addition, water levels at the site will vary with levels during and following construction will vary from those observed in the borings. Water was observed in borings at depths below ground surface varying from 2.7 feet to precipitation, temperature, and construction activity in the area. Observations of water were made over a relatively short period of time and may not Therefore, water

Strength and Compressibility Characteristics of Clay Stratum

stress history from other projects with similar conditions the deposit was estimated by comparing the shear strength with correlations for strength and 26, to be approximately 1,500 pounds per square feet (psf) to 3,000 psf. The stress history of The undrained strength of the clay was estimated from the N values, which ranged from 5 to

virgin compression ratio (CR). the applied stress exceeds the maximum previous stress, the strain will be proportional to the ovm, the strain (settlement) will be a function of the recompression ratio (RR) of the clay. upon their stress history. If clay is stressed within the limits of the maximum previous stress, recompression ratio. The stress-strain or compressibility characteristics (settlement) of clays are highly dependent The compression ratio is typically 10 to 15 times the

the groundwater level at some time in the geologic past which also increased the effective deposit likely became overconsolidated due to desiccation (drying) resulting from a lowering of the existing overburden stress is significantly less than the maximum previous stress. overburden stress throughout the stratum. The stress history and appropriate compression ratios were estimated for the clay deposit as The correlations indicate that the deposit is heavily overconsolidated, that is,

Recommendations for Foundation Design

Recommended Foundation Type and Design Criteria

on compacted structural fill placed after removal of unsuitable soil. be supported on spread footings bearing on undisturbed, naturally-deposited sand and clay or The fill is not considered suitable for support of the building. In our opinion, the building may

All footings should be a minimum of 1.5 feet wide. equal to 1,000 multiplied by the least lateral dimension of the footing in feet, up to 3,000 psf. Footings may be proportioned for an allowable bearing stress in pounds per square foot (psf)

below the ground floor slab. exposed to freezing. Interior individual footings should be founded a minimum of 1.5 feet Exterior footings should be founded at least 4.5 feet below the lowest adjacent ground surface the lowest floor slab. Interior bearing walls may be founded on thickened portions of

points located at least 2 feet horizontally beyond the bottom edges of the footings. least the limits defined by 1 horizontal to 1 vertical lines sloped outward and downward from Compacted structural fill supporting footings should extend laterally from the footings

should determine final acceptability of settlement. We anticipate that settlement of this magnitude is acceptable. However, the structural engineer less and differential settlement between columns will be 0.5 inch within approximately 30 feet. At the recommended bearing stress, we anticipate that foundation settlement will be 1.0 inch or

Ground Floor Slab

the proposed lowest floor level. bearing on a minimum 6-inch thickness of crushed stone. developing on the slab and walls. underslab drain system be constructed in the basement to prevent hydrostatic pressure from We recommend that the lowest level floor slab be designed as earth-supported slab-on-grade We recommend that a perimeter foundation drain and Groundwater was observed above

provided. If gravity discharge is used, provisions should be made to prevent reversal of flow and backup of discharge in case of a severe storm or other event. include a loop around the perimeter of the slab and a cross-lateral to provide multiple paths for foundation drains should be below the basement floor levels and the underslab drain should layer of 3/4-inch crushed stone and non-woven geotextile filter fabric. and non-woven geotextile filter fabric. water flow. Drains should consist of 4-inch diameter perforated pipe surrounded by 3/4-inch crushed stone Gravity discharge and normal dampproofing and vapor barriers should be The basement slab should be underlain by a 6-inch The invert

If gravity discharge is not available, discharge from the system may be accomplished by for basement walls and slab. gallons per minute. from at least two sumps, one at opposite ends of the basement, with standby pumps at each The pumps should have emergency electric power available in the event of a power We recommend that the discharge from each sump be designed for a flow of 25 In order to provide for backup discharge, the system should be designed to pump Normal damp-proofing measures and vapor barriers should be provided

Seismic Design Considerations

short period spectral response acceleration S_s of 0.37g; the site response coefficient F_v is 2.4 considered liquefaction susceptible. for the 1-second period spectral response acceleration S₁ of 0.10g. The subgrade soils are not Building Code, the site classification is Class D; the site response coefficient Fa is 1.5 for a The building should be designed in accordance with the latest edition of the International

Lateral Foundation Loads

coefficient of friction equal to 0.35 be used for footings. lateral resistance, we will consider the problem in more detail to take into account other We recommend that lateral loads be resisted by bottom friction on footings and that a If this does not provide sufficient

Lateral Soil Pressure

designed to resist a lateral earth pressure calculated on the basis of an equivalent fluid unit coefficient of 0.45, a free-draining granular backfill, and an effective drainage system We recommend that the basement walls which are restrained at the top and backfilled be weight of 55 pounds per cubic feet. This fluid unit weight assumes an at rest earth pressure

Backfill Materials

loam, trash, snow, ice, frozen soil and other objectionable material, and should conform to the Structural fill used below foundations and floor slabs and for backfill adjacent to basement following gradation: walls should consist of sandy gravel to gravelly sand. It should be free of organic material,

No. 200	No. 40	No. 4	3 inches	Sieve Size
0 to 8	10 to 50	30 to 90	100	Percent Finer by Weight

accordance with ASTM Test Designation D1557. content to a dry density of at least 95 percent of the maximum dry density, as determined in and compacted by self-propelled vibratory equipment at the approximate optimum moisture Compacted structural fill should be placed in layers not exceeding six inches in loose measure

should provide for runoff away from the building. or bituminous concrete pavement to minimize water infiltration next to the building. top 12 inches of fill on the exterior of the building should consist of low permeability material minimum of 2 feet from the wall. Backfill beyond this limit may consist of common fill. The Compacted structural fill on the outside of the basement walls should extend laterally a Grading

compacted with a minimum of two systematic passes of the equipment placing the fill. Common fill may consist of inorganic mineral soil that can be placed in layers and compacted Common fill should be placed and spread in layers not exceeding 12 inches in thickness and

Pavement Section

We recommend the following pavement section for parking areas:

Automobile Parking Areas

- 3 in. bituminous concrete, placed in two layers
- 3 in. base course
- 12 in. sand or gravel subbase course

Base and subbase course materials should conform to the following gradations:

Base Course

Bridges; Section 703.06a, Type A) Screened or Crushed Gravel (Maine DOT Standard Specification, Highways and

No. 200	No. 40	¼ inch	½ inch	2 inches	Sieve Size
0-5	0-20	30-55	40-70	100	Percent Finer by Weight

Subbase Course

703.06b, Type D) Sand or Gravel (Maine DOT Standard Specification, Highways and Bridges; Section

No. 200	No. 40	¼ inch	6 inches	Sieve Size
0-7	0-30	25-70	100	Percent Finer by Weight

(Note: Compacted structural fill may be substituted for gravel subbase course.)

existing granular fill, if excavated, is not suitable for structural fill. density of at least 95 percent of maximum dry density, as determined in accordance with ASTM Test Designation D1557. fill should be placed in layers not exceeding 8 inches in thickness and compacted to a dry Fill required below the pavement section should consist of compacted structural fill. Structural In our opinion, based on results of the test borings, the

self-propelled vibratory compaction equipment. dry density, as determined in accordance with ASTM Test Designation D1557. Base course material should be placed in one lift and compacted with a minimum of two coverages with at approximately optimum moisture content to a dry density of at least 95 percent of maximum Subbase course material should be placed in maximum 8-inch thick loose lifts and compacted

Construction Considerations

General

account their proposed construction methods, procedures, equipment and personnel. evaluate the construction problems on the basis of their own knowledge and experience in the personnel who monitor the construction activity. Prospective contractors for this project must for the engineer having responsibility for preparation of plans and specifications. earthwork, and related geotechnical aspects of proposed construction. It is written primarily Portland, Maine area, and on the basis of similar projects in other localities, taking into identifies potential construction problems related to foundations and earthwork, it will also aid The primary purpose of this section of the report is to comment on items related to excavation,

provided safe side slopes can be maintained. excavation can be accomplished with sloped open excavation through the overburden soils construction along Cumberland Avenue and Chestnut Street. basement area, it may be necessary to provided temporary lateral support for the sidewalks and Excavations up to 10 feet or more below existing grade will be required for foundation However, depending on the limits of the We anticipate that foundation

submitted to the owner or owner's representative for review and comment. excavation support, if required, regulatory agency requirements. Temporary excavations should be made in accordance with all OSHA and other applicable be designed by a registered professional engineer and We recommend that the contractor's proposed method for

which prevent disturbance of bearing surfaces or adjacent soils and allow construction contractor should control groundwater and water from runoff and other sources by methods anticipate that dewatering may be accomplished with sumps and open pumping. In general, the Groundwater will likely be encountered at proposed subgrade level of the building.

regarding disposal of potentially petroleum contaminated soil and groundwater. Maineland Consultants, who conducted the environmental site assessments, be consulted Explorations encountered petroleum odors in the subgrade soils. We recommend that

Subgrade Preparation

and replaced with compacted structural fill prior to placing concrete. subgrade should be performed using equipment with smooth-edge buckets. protected against freezing temperatures if exposed during construction. personnel should not be permitted to travel across exposed footing bearing surfaces or exposed The subgrade soil is susceptible to disturbance from construction traffic. Any subgrade areas that are disturbed should be recompacted or excavated Subgrades should be Final excavation to Equipment and

Construction Monitoring

preparation of foundation bearing surfaces, and placement of compacted structural fill. training and experience be present to provide monitoring at the site during and techniques used in construction. construction is required to enable the geotechnical engineer to keep in contact with procedures behavior of a properly engineered and constructed foundation. Monitoring of the foundation The foundation recommendations contained herein are based on the known and predictable Therefore, we recommend that a person qualified by

Limitations of Recommendations

conclusions of this report modified or verified in writing. contained in this report should not be considered valid unless the changes are reviewed and the nature, design or location of the building are planned, the conclusions and recommendations generally accepted geotechnical engineering practices. This report has been prepared for specific application to the subject project in accordance with In the event that any changes in the

re-evaluate the recommendations of this report. become evident until construction. referenced test borings. The recommendations presented herein are based in part on the data obtained from the The nature and extent of variations between the explorations may not If variations then appear evident, it will be necessary to

been interpreted and implemented in the design and specifications as they were intended. specifications in order to determine that our earthwork and foundation recommendations have We request that we be provided the opportunity for a general review of final design and

you have any questions or need additional information. It has been a pleasure to work with you on this project. Please do not hesitate to contact us if

Sincerely,

SEBAGO TECHNICS, INC.

A KENNETH CONTROL OF STATE OF

Kenneth L. Recker, P.E. Geotechnical Engineering Manager

KLR:klr/jc Enclosures:

Table I - Summary of Borings

Sheet 1 - Subsurface Exploration Plan

Appendix A - Logs of Previous Borings

Appendix B - Logs of Present Borings

ı	1
yan ada ada da ada da ada da ada da ada da	เมืองเปลี่ยนได้เหมือนที่

TABLE I SUMMARY OF BORINGS PROPOSED RESIDENTIAL BUILDING CHESTNUT STREET PORTLAND, MAINE

1							
1		6.0	8.0	NH NH	56.0		B102
.6	7	-	4.0	4.5	56.7	L	B101
.5	8	-	2.5	NE	58.1	1	B2
.5	7.5	***	5.0	2.7	53.6		B1
ay	CI	Sand	Fill	(Ft)	E1. (Ft)	(Ft)	Number
				Water	Grnd. Surface		Boring
(Ft)	kness	Strata Thickness (Ft)	***************************************	Depth to	Approx.		

NOTES:

- OF BORING. NE INDICATES GROUNDWATER NOT ENCOUNTERED WITHIN DEPTH
- 2. BORING. INDICATES STRATUM NOT ENCOUNTERED WITHIN DEPTH OF
- ယ INDICATES DEPTH OF PENETRATION INTO STRATUM.

i	i	!!	:	t :	1	1	,	ţ ·	ı	,		ı	į	÷	1 .	

·

The section of the section

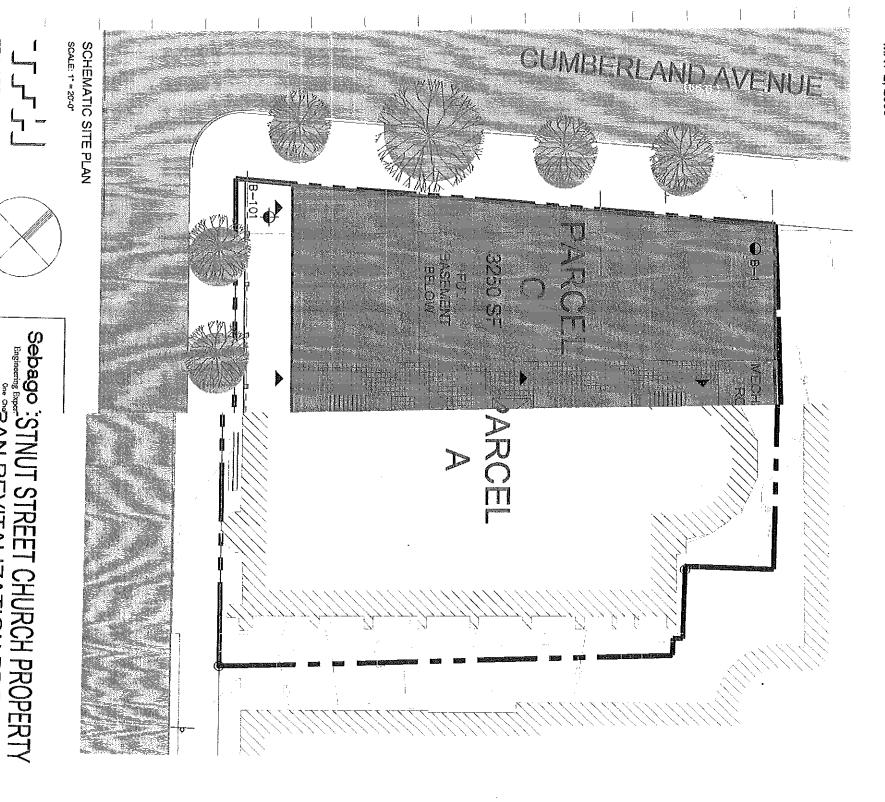
·

·

.

·

HOUSING, RETAIL, AND SURFACE PARKING, CHAPEL REMIMAY 2, 2005



ATION PROJEC-

STREET LLC.
PORTLAND, MAINE
SHEET 1 OF 1

		e e e e e e e e e e e e e e e e e e e	· ·	f t
and the second				
	e kalanteriga persandan mendala, samindalan pendaratan pilakan dan dan terbagai sebagai berbagai sebagai sebag	ala Dan disebuah di dan di	katanat Maha Atatanat pening taun teknadan Asuntan Maha Mediebeken antawan.	electrica de transferio de la companio de la compa
		•		
		•		
				•

Appendix A

Logs of Previous Borings

	of sampler size. Sebago Technics, inc.	Soil identifications based on visual-manual methods of the USCS system as practiced by Sebago Technics.	nined by direct obse	/Isual-man	based on	entifications	NOTE: Soll ide	3		
igh y High	w M-Medium H-High ım H-High V-Very High	N-Nonplastic L-Lo- None L-Low M-Medi	Plasticity: Dry Strength: N		H - High	M - Medium	L-Low !	Toughness:		
B	BORING NO.	Concreto Bentonite Seal	coprobe	٥			1 1	llatancy:		Field Tosts
	Rock Cored (Linear ft.) Number of Samples	Cuttings Grout	Undisturbed Sample Split Spoon Sample) wc -	14.5	16.0	15.0		1000	4/26/2005
17.0	Overburden (Linear ft.)	Riser Pipe Screen	pen End Rod		Water	f Bottom of	Bottom of E	Etapsed Time (hr.)	Time :	Date
Summary		Well Diagram	Sample ID				vol Data	Water Leve		
										່ ສ -
			1							7
		• • • • • • • • • • • • • • • • • • • •		1		1	-			
	; ;									25
								1		· · · · · ·
										1 20 ———————————————————————————————————
							1			
		Bottom of Exploration at 17.0 ft, below ground surface	Bottom of Exploration							
		-GLACIAL TILL DEPOSITS-				-	17.0	24	40	
15 30 15 25 15	5 in., wot	very conse, gray sity SAND with gravel, mps = 0.25 in, wet	very conso, gray sit						នន	
							15.0	2	Co.	75 _L
					12.5					
		-MARINE DEPOSITS-					12.0	24	7	12/20
100 N M M		Stiff, gray lean CLAY (CL), damp, petroleum odor	Stiff, gray lean CLA	ե			10.0	Ş	200	
								3	,	T
		THE COLUMN TO TH								
		MARINE DEPOSITS								
		The state of the s	Teneral Parent				7.0	24	15	
10 90 N M M	tings, damp,	Very stiff, gray lean CLAY (CL), frequent sand partings,	Very stiff, gray lean	ρ			5.0	ß	=	1
					50					'n
										·····
							2.5	10	2	
5 10 40 15 15 15	1.25 ln., wet	Loose, brown sitty SAND with gravel (SM), mps = 1.25 in, wet at 2.3 ft.		WS			0.5	Si	6 6	
99 99 99 99 99 99 99 99 99 99 99 99 99		-BITTIMINOLIS CONCERT			0.3					°
6 Coarse 6 Coarse 6 Coarse 6 Medium 7 Fine 6 Fines Retaincy 00 Shaketing 10 Shaketi	scription ∟ maximum porticie size*, oologic interprotation)	Visual-Manual Idontification & Description (dontify/consistency, color, GROUP NAME & SYABOL, maximum particle size* structure, odor, mosture, optional descriptions, geologic interprotation)	(density/consistency structure, oder	n USCS Symbol	Stratum Change (ft.)	Well	Sample Depth (ft.)	Sample No. & Recovery (In.)	Sample Blows po	Depth (ft.)
푰	 '' -	Winch Roller Bit Cutting Head	Geoprobe Air Track Trailer	Track Skid			30 4	140 MAN	€ 5	Hammer Weight
Drilling Mud Casing Advance Bentonite Type Method Depth	mmor Type Safety	ö	Model Impod	Make & Mo Truck		pler Core	Sam	HSA	meter (in.)	Type Inside Di
4/26/2005	to the state of th	***************************************	າກ See Plan	ng Locatio	29 Bor	NGVD 19	Datum	8		Elevation
4/26/2005	DATE STARTED					IGS, INC.	ST BORIN	R. IDANO		DRILLER
X. RECKER	STI JOB NO. PROJECT MGR. FIELD REP.		CHESTNUT STREET AND CUMBERLAND AVENUE, PORTLAND, MAINE BERMAN ASSOCIATES	O AVENU	/BERLANI	T AND CU	UT STREE	CHESTN	S.	CLIENT
Page 1 of						5	ED BUILD	PROPOS	Ĭ	PROJECT
BORING NO.	į	REPORT	TEST BORING REPORT	TEST					VICS,	SEBAGO TECHNICS,

PROPINSEED BULDONG CHARGE CHARGE	High	m H - High V - Very High of sampler size.	None L-Low M-Mediu ation within the limitations SCS system as practiced by	Dry Strength: N- lined by direct observ- ual methods of the US	is dotorn	H - High article Size based on vi	Maximum F mtifications	NOTE: Soil ide	NO		
Prof.			N - Nonplastic - C	Plasticity:		N-None	S-Slow	R - Rapid	atancy:	, ,	Fiold T
Column C		Number of Samples	Cuttings Grout Concrete	eoprobe	ດ ທ ເ ດ ທ ເ	9.8	14.4	10.0		0830	6/2005
No.		Overburden (Linear ft.) Rock Cored (Linear ft.)	Screen Filter Sand	pen End Rod hin Wall Tube		Water			Elapsed ime (hr.)		Date
No.	Summary		Well Diagram	Sample ID			th in foot to	8			
PROJUCTION PRO											8 -
Property Property											1 :
Page];
RECORDS RECORD									; ;	+ +	
RECORDS CONTROL CONT											1 1
PROJECT SILL DING SILL D											25
PROPRIEST NATE PROP											
Page											7-1
PROPOSED SULDING PROPERTIAND MAINTE PROPERTIAND PROPERTIA											
PROPOSED SULDING PROPOSED SULDING PROPERTIAND MANNE PROPERTIAND PROPERTIAND MANNE PROPERTIAND											, , , , , , , , , , , , , , , , , , ,
PROJECT BULING PROJECT BULING PROJECT BULING PROJECT BUTING PROJ											8
PROPOSED BULLING		: : : : : : : : : : : : : : : : : : : :								-	
PROPOSED BULLING PROPOSED BU			All man represents of former many states and a representation of the state of the s								1 7
PROPOSED BULIDNIG											·
PROPOSED BUILDING PROP		ICO	at 14.4 ft. below ground surfa	Bottom of Exploration a							
PROJOSEB BUILDING				HSA refusal at 14,4 ft.							
PROPOSED BUILDING PROP						14.4					, L.,,
PROPOSED BUILDING			CONTRACTOR INC.								
PROPOSED BUILDING CHESTNUT STREET AND CUMBERLAND AVENUE, PORTLAND, MAINE STLOB NO. Edge T of			GI ACIAI TIII DEBOSITS								
PROPOSED BUILDING CHESTNUT STREET AND CUMBERLAND AVENUE, PORTLAND, MAINE STLOB NO. E3006 Fage 1 of 1 o	10 30 15 20	ms,	ND with gravel (SM), frequen	Dense, brown slity SA:	1 1			12.0	24	70	
PROPOSED BUILDING	Z Z	seams,	an CLAY (CL), frequent sand -MARINE DEPOSITS-	Stiff, brown mottled lea		11.0		10.0	8	» G (
PROPOSED BUILDING								5	3	(A)	ಕ 1
PROPOSED BUILDING											
PROPOSED BUILDING			-MARINE DEPOSITS-								
PROPOSED BUILDING								7.0	24	19	
PROPOSED BUILDING	85 Z	quent sand	mottled lean CLAY (CL), free	Very stiff, gray-brown seams, damp	բ			5.0	SZ	3 3	
PROPOSED BUILDING											ω 1
PROPOSED BUILDING											
PROPOSED BUILDING			-511.1-			2.5		2.5	10	2	
PROPOSED BUILDING	10 20 40	ps≖1.0 in.	lly SAND with gravel (SM), п	brick fragments, dry	SMS			100		0 4	
PROPOSED BUILDING		***	-BITUMINOUS CONCRETE			0.5			2	16	
PROPOSED BUILDING	% Fine % Coarse % Medium % Fine % Fines Ditatancy Toughness Plasterly % Fines	scription maximum particle sizo*, selegic interpretation)	i-Manual Identification & Decoler, GROUP NAME & SYMBO) neisture, optional descriptions, ge			 		Sample Depth (ft.)	No. & Recovery	Sampler Slows per 6 in.	Sopth (ft.
PROPOSED BUILDING	None	1 -		-	- a i	s		8	Sample	all (in.)	tammer F
PROPOSED BUILDING	Bentonito Polymer		1 1		\$ 7 <u>k</u>		75	1.3	2.5	motor (in.) Voight (lb.)	nside Dia
PROPOSED BUILDING PROPOSED BUILDING CHESTNUT STREET AND CUMBERLAND AVENUE, PORTLAND, MAINE BERMAN ASSOCIATES MAINE TEST BORINGS, INC. R. IDANO PROPOSED BUILDING STI JOB NO. C5096 PROJECT MGR. K. RECKER FIELD REP. K. STEPHENSON DATE STARTED 4/26/2005 4/26/2005	Drilling Mud Casing Advance	Hammer Type	6	-	g Locatio	9 Borin	NGVD 192	Sam	Casing	g g	tom
PROPOSED BUILDING CHESTNUT STREET AND CUMBERLAND AVENUE, PORTLAND, MAINE BERMAN ASSOCIATES COTOR MAINE TEST BORINGS, INC. PROPOSED BUILDING COTOR PROPOSED BUILDING STI JOB NO. COTOR FIELD REP. K. STEPHENSON	4/26/2005 4/26/2005	DATE FINISHED		***************************************					R. IDANO		DRILLER
PROPOSED BUILDING PROPOSED BUILDING PROPOSED BUILDING PROPOSED BUILDING PROPOSED BUILDING PROPOSED BUILDING O5096 O5096	K. STEPHENSON	FIELD REP.					TES TGS, INC.	ASSOCIA:	BERMAN MAINE TE		CONTRA
	Page 1 of 1	STI JOB NO.	**************************************	PORTLAND MAIN	AVENU	/BERLAND	NG AND CUN	ED BUILDI UT STREE	PROPOS	2 4	PROJEC
			f CZ							Č	NC.

				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	: :	
,								
Alexander et	٠							
and the second								
	erika akada da era era kala kala kala kala kala kala kala ka	na kilo kalenda kalenda kilo anda kilo anda kilo kalenda kilo kilo kilo kilo kilo kilo kilo kilo	tite produkte kontroler di konsentrete pereka konside		ngah na mana na mana da ma da a a da mangh	dalian naganin panjang salah kababa	taglan mår na stattgat militæri på til state	n de dé de pende

Appendix B

Logs of Present Borings

y High	of sampler size. Sebago Technics Inc.	NOTE: Maximum Particle Size is determined by direct observation within the limitations of samples. Soil identifications based on visual-manual methods of the USCS system as practiced by Sebago T.	nined by direct observal methods of the L	ze is deterr visual-mar	Particle Si	Maximum I	NOTE: Soil ide	N.		
	dium H-High	Vonplastic L-Low M-Me	Plasticity: N - N Dry Strength: N		N - None	S - Slow	L-Low A	Toughness:		
B101	BORING NO.	Concrete Bentonito Seal	eoprobe	6						Field Tests
17.0	Overburden (Linear ft.) Rock Cored (Linear ft.) Number of Samples	Filter Sand Cuttings Carry Grout	Open End Rod Thin Wall Tube Undisturbed Sample Spilt Spoon Sample	ωc -10	Water 4.5	Bottom of Hole	Bottom of B Casing	Time (hr.)	1130 T	Date 10/10/2005
Summary		Well Diagram	Sample ID		×	Dopth in feet to:	voi Data Dopt	7		
										30
										}
										, , ,
										* -
	100	n at 17.0 ft. below ground surface	Bottom of exploration at 1 No refusal							-
		, .					17.0	24	ø	
5 10 30 20 20 15		Loose, gray, silty sand (SM) with gravel, mps = 1.0 in., damp	Loose, gray sity san	MS			15.0	32	cs 4.10	# #
		or in wet cuttings at 13,0 ft.	Note: petroleum odo							, , ,
26 20 26 20		-GLACIAL TILL DEPOSITS-								
8.	neganitation	layers, one 1.25 in, dropstone, damp	layers, one 1.25 in.	SMS	11.6		12.0	24	ω 4	
		O CHAN-brown lean CLAY (CL)	Medium stiff, gray to	ե			10.0	S3	ω	- 1 - 6 - 1
		-MARINE DEPOSITS-					7.0	24	13	
40 60 V M M	t sand seams,	Stiff, gray to gray-brown lean CLAY (CL), frequent sand seams, mps = 0.02 in., damp	Stiff, gray to gray-b	р			5.0	SZ	10 s s	, , , , , , , , , , , , , , , , , , ,
					4.0					
		471L					2.3	4		
5 10 35 20 15 15	nps ≈ 1.0 in.	brown sily SAND with gravel (SM), mps = 1.0 in.	Loose, dark brown	MS			0.3	S1	3 7 4	
% Co. % Fin. % Co. % Med % Fin. % Fin. Dilatar Tough Plastic Streng	eologic interpretation)	, messure, openial equaptions, g			ا ا			(i)		0
e e Vande e es Field ity	oscription L. maximum particle size*,	Visual-Manual Identification & Description (density/consistency, color, CRCULP NAME & SYMBOL, maximum particle size*, structure, odox movistro profession descriptions.		m USCS Symbol		Woll	Sample Depth (ft.)	Sample No. &	Sampler Blows per 6 In.	Dopth (n.)
Polymer Nono HSA/Spin/15.0	Doughnut [Automatic [Drilling Notes:	✓ Winch Roller Bit Cutting Head	Geoprobe Air Track Trailer	Skid		30 聖經			mmer Weight (ib.) mmer Fall (in.)	Hammer V
[일	_	Mobile B53	171	Jælá	Barrel Rig	Sampler Core Barrel I	111	Casing HSA	notor (in)	Type Inside Dia
10/10/2005	DATE FINISHED		S CO Dia		29 Po	NGVD 19	ft. Datum		56.7	Elevation
K. B. STEPHENSON	PROJECT MGR. FIELD REP. DATE STARTED	AINC	BERMAN ASSOCIATES MAINE TEST BORINGS, INC.			TES IGS, INC.	ASSOCIA	BERMAN MAINE T	CTOR	CONTRACTOR
Page 1 of 1 05096	STI JOB NO.	71.1C	n popri Ann Ma	D ACEU	MBERI AN	T AND CU	SED BUILDI	PROPOS	Ž	PROJECT
BORING NO. B101		REPORT	TEST BORING REPORT	S					्टू	SEBAGO TECHNICS, INC.

	dium H - High M H - High V - Very High of sampler size. Sebage Technics, Inc.	Plasticity: N - Nonplastic L - Low M - Medium H - High Dy Strength: N - Nonplastic L - Low M - Medium H - High V - NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. Soil Identifications based on visual-manual methods of the USCS system as practiced by Sebago Technics	Plasticity: N-N Dry Strength: N Ined by direct observations of the L	is determ	H - High article Size	M - Medium M - Meximum F multications	L-Low NOTE: Soil ld	Toughness:	7	
B102	BORING NO.	Bentonite Seal			Non	S - Slow	R - Rapic	iatancy:	osts D	Field T
4S	Number of Samples	Cuttings Grout	Undisturbed Sample Split Spoon Sample	် လောင	δ	4.5			1230	10/10/2005
15.3	Su Overburden (Linear ft.)	Riser Pipe Screen	oen End Rod		Wator	Bottom of	Bottom of E	Elapsod Timo (hr.)	Time T	Date
		Well Diagram	Sample ID	_			ol Data	Water Lev		
										8
										[]]
										- , , ,
						;				<u> </u>
										25
	: :									1
						:				
										20
	iCO	Spin spoon rotusal at 15.5 ft. Bottom of exploration at 15.5 ft. below ground surface	Bottom of exploration							***
		TOTAL BETTA	2							
35 20 25 15	, wot	/ery dense, brown silty SAND (SM), mps = 0.26 in., wer	Very dense, brown s	WiS	15.3 15.5		15.0 15.5	2 4	50/0	
	1	-GLACIAL TILL DEPOSITS.						2	3	15
		-MARINE DEPOSITS-			14.0					
76 25	ims, mps =	SAND (SM), occasional clay sea	Loose, brown sitty S 0.02 in., wet	MS						
60 40	mps = 0.02	and sheen, wet	in., petroleum odor	v s			12.0	2,4	8	
60 40	18, mps = 0.02	SM Losse, brown sity SAND (SM), frequent day seams, mps = 0.02 in, wetMARINE DEPOSITS	in., wet	SE	10.8		100		5 3	
							5	3	۵	
		-Fit-			8.0					
10 30 15 25 15	6	ay-brown sitty SAND with grave	Medium dense, gra	SM.] 		7.0	8	5	7.02
40 60 N M	mps = 0.02 h.,	Stiff, gray lean CLAY (CL), frequent sand seams, mps = 0.02 in.	Stiff, gray lean CLJ	<i>;</i> 2	5.5		5,0	g	0 6	
										Τ
									1	
		-FILL					2.3	5	ω	
5 40 40 10	uminous 6	-graded SAND (SW), traces bitumine	concrete, mps = 1.0 in., damp	WS				9	ω (r.	·····
5 5 1 7		-BITUMINOUS CONCRET			0,3		2	2	5	-
% Fine % Coarse % Medium % Fine % Fine % Fines % Matancy Toughness % Matancy Toughness % Matancy	escription L. maximum particle size*, escologic interpretation)	Visual-Manual Identification & Description (consily/consistency, color, GROUP NAME & SYMBOL, medimum particle size* structure, odor, meleture, optional descriptions, geologic interpretation)		USCS Symbol	Stratum Change (ft.)	Well Diagram	Sample y Depth (ft.)	6 Recovery	Sampler .) Blows per 6 in.	Depth (ft.)
None HSA/Spin/15.0	Automatic 7	Roller Bit Cutting Head		ack				Sample	Fall (in.)	Hammor
Iling Mud Casing Advance Bentonite Type Method Depth Polymer		Cat-Head Winch	Tripod	Z F I]00	HSA SS 2.5 1.375	1 2 6	2.5	Type Inside Diameter (in.) Hammer Weight (ib.)	Typo Inside Di Hammer
10/10/2005		033	on See Plan	ig Locatio	29 Bortr	NGVD 19	t Datum	Cas	Q1.	Elevation Item
10/10/2005	DATE STARTED							B.ENOS		DRILLER
K. B. STEPHENSON			BERMAN ASSOCIATES MAINE TEST BORINGS, INC.			ATES NO	N ASSOC!	BERMA MAINE	CTOR	CONTRA
Page 1 of 1 05096		ANG	E PORTI AND M	AVENU	MBERLAND	DING CU	ISED BUILI NUT STRE	PROPO CHESTI	Š J	LOCATION
B102										NC.
BORING NO.		FaCana	TEST BORING REPORT	S					NICS.	TECHNICS.



Planners • Managers • Building Excellence Since 1958 Design/Builders

May 29, 2007

Portland, ME 04101 389 Congress St City of Portland Code Enforcement Mr. Timothy Markley

389 Congress St Portland, ME 04101 City of Portland Planning Department Mr. Phillip DiPerra

Portland, ME 04101 55 Portland St. Mr. Michael Bobinsky City of Portland Department of Public Works

City of Portland Fire Department 380 Congress St. Captain Greg Cass Portland, ME 04101

RE: Chestnut St Lofts, 21 Chestnut St., Permit No. 060492

Gentlemen;

We are hereby requesting a temporary certificate of occupancy inspection on Friday, June 15, 2007. The building interior will be complete with all life safety in place. Exterior lighting will be installed. Courtyard paving, on-site improvements and public improvements on Chestnut Street will be complete. We anticipate the following work to be completed after June 15, 2007:

- Siding Miscellaneous trim and detail work
- Landscaping (on-site) Planter along Cumberland Ave.
 Public improvements Esplanade and sidewalk in front of the planter on Cumberland Ave.

completion. severe spring storms prevented us from completing exterior work and significantly delayed project We are requesting this temporary certificate of occupancy inspection to allow the developer, Mr. Richard Berman, to schedule closings while we complete the last bit of remaining work. Damage caused by the

We appreciate your help in making this a successful project for all.

Paul Laliberte, PE

VP Project Management Cell Phone 207-415-6352

Cc: Mr. Richard Berman, Chestnut St. Lofts, LLC Mr. Tom Perry, Allied/Cook Construction



Planners • Managers • Design/Builders Building Excellence Since 1958

May 29, 2007

Portland, ME 04101 Mr. Timothy Markley City of Portland Code Enforcement 389 Congress St

Mr. Michael Bobinsky Portland, ME 04101 City of Portland Planning Department Mr. Phillip DiPerra 389 Congress St

Portland, ME 04101 380 Congress St City of Portland Fire Department Captain Greg Cass Portland, ME 04101 City of Portland Department of Public Works 55 Portland St.

RE: Chestnut St Lofts, 21 Chestnut St., Permit No. 060492

Gentlemen;

We are hereby requesting a temporary certificate of occupancy inspection on Friday, June 15, 2007. The building interior will be complete with all life safety in place. Exterior lighting will be installed. Courtyard paving, on-site improvements and public improvements on Chestnut Street will be complete. We anticipate the following work to be completed after June 15, 2007:

- Siding Miscellaneous trim and detail work
- Landscaping (on-site) Planter along Cumberland Ave.
 Public improvements Esplanade and sidewalk in front of the planter on Cumberland Ave.

severe spring storms prevented us from completing exterior work and significantly delayed project completion. Berman, to schedule closings while we complete the last bit of remaining work. Damage caused by the We are requesting this temporary certificate of occupancy inspection to allow the developer, Mr. Richard

We appreciate your help in making this a successful project for all.

Sincerely

il Laliberte, PE

VP Project Management Cell Phone 207-415-6352

Cc: Mr. Richard Berman, Chestnut St. Lofts, LLC Mr. Tom Perry, Allied/Cook Construction

CMCS LLC.

Construction Management Consulting Services
Corp Office: P.O. Box 294 – Bath, Maine 04530 P.
Freeport Office: 37 Pine Struct, Freeport, ME 04032 Ph

PH: (207)522-0688 Fax: (207) 443-3665 PH: (207)522-0688 Fax:865-1699

Гo:	City of Portland - Inspections			
Frogra:	Alan Vicho's - Chesmut Street Lofts Date:	Date:	06/05/07	
Re:	Final Special Inspections Report	Pages:		
8:				
☐ Urgent	☐ For Review ☐ Pleas	☐ Please Comment	☐ Please Reply	☐ Please Recycle

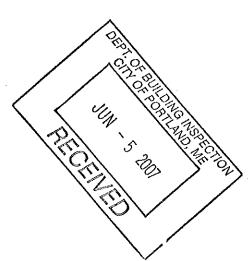
Please find attached the final special inspections report for the Chestnut Street Lofts Project located at 21 Chestaut Street, Portland, Maine.

me an email at ANCMONG action. If there are any questions or traditional information is required please give me a call at 522-0688 or send

Thank Youi

Alan Nichols QMCS/QS1 Owner's Rep C: 522-068:

Received By:



Final Report of Special Inspections

Project: Chestnut Street Lofts

Location: 29 Chestnut Street, Portland, ME

Owner: Chestnut Street, LLC

Owner's Address: One India Street

Portland, ME 04101

Architect of Record:

TFH Architects.

Structural Engineer of Record: Structural Design Consulting, Inc.

22 Oakmont Drive, Old Orchard Beach, ME 04064

discovered discrepancies have been reported and resolved other than the following: To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the Statement of Special Inspections submitted for permit, have been performed and all

Comments: No outstanding issues

(Attach continuation sheets if required to complete the description of corrections.)

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Special Inspector Respectfully submitted,

David J. Tetreault, ď (1)

(Type or print name)

05/21/07 Date

DAVID J.
TETREAULT
*
TETREAULT
*
TOWAL ENGINEER Licensed Professional Seal

Statement of Special Inspections

Inspections • ©CASE 2004	CASE Form 101 • Statement of Special Inspections	
ature Date	Signature Date Signature	S S
Building Official's Acceptance:	Authorization:	g g
Date Design Hotessional Seal	manue Muedell St.	Si
DAVID J. TETREAULT	David J. Tetreault, P.E. (type or print name)	₹ D
or ☐ per attached schedule.	Interim Report Frequency: monthly	g =
solely the responsibility of the Contractor.	Job site safety and means and methods of construction are solely the responsibility of the Contractor	٦
on of all required Special Inspections, testing and Il be submitted prior to issuance of a Certificate of	A <i>Final Report of Special Inspections</i> documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.	<u>⊊</u> 8≯
Official and the Registered Design Professional in	Interim reports shall be submitted to the Building Official Responsible Charge.	R In
s of all inspections and shall furnish inspection reports to Professional in Responsible Charge. Discovered attention of the Contractor for correction. If such all be brought to the attention of the Building Official and harge. The Special Inspection program does not relieve	Special Inspection Coordinator shall keep record Building Official and the Registered Design repancies shall be brought to the immediate repancies are not corrected, the discrepancies shall be professional in Responsible Contractor of his or her responsibilities.	The the disc disc the the
s a condition for permit issuance in accordance with the ts of the Building Code. It includes a schedule of Special as the name of the Special Inspection Coordinator and ned for conducting these inspections and tests. This wing disciplines: Mechanical/Electrical/Plumbing Other:	This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompass the following disciplines: Mechanical/Electrical/Plumbing Other: Othe	상학교상구
David J. Tetreault, P.E.	Design Professional in Responsible Charge: David J. Te	Ō
rd, ME 04101	Owner: Chestnut Street LLC, One India Street, Portland, ME 04101	Q
	Location: 29 Chestnut Street, Portland, ME	_
	Project: Chestnut Street Lofts	70

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

☐ Cold-Formed Steel Framing	Masonry		Soils and Foundations	
			Spray Fire Resistant Material	

Special Inspection Agencies	Firm	Address, Telephone
1. Special Inspection Coordinator	Structural Design Consulting, Inc.	22 Oakmont Drive Old Orchard Beach, ME 04064 207-934-8038
2. Inspector	S.W Cole Engineering, Inc	286 Portland Road Gray, ME 04039 (207) 657-2866
3. Inspector		
4. Testing Agency		
5. Testing Agency		
6. Other		

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

©CASE 2004

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Quality Assurance Plan Required (Y/N) Seismic Design Category

K C

Description of seismic force resisting system and designated seismic systems:

The seismic force resisting system consists of eccentrically braced fames (non-moment connections) as shown on Sheet S2.0. IBC/2003 Table 1617.6.2 Type 2B.

for Structural Steel. 1705.1.1 Q/A plan is required for the seismic force resisting system. Q/A plan consists of Special Inspections

therefore Q/A plan not required. 1705.1.2 refers to SDC D, E and F therefore Q/A plan not required 1705.1.4 refers to SDC D therefore Q/A plan not required. 1705.1.3 refers to hazardous materials in ducts and piping and to emergency standby power. None present

1705.1.5 refers to SDC E and F therefore Q/A plan not required

Quality Assurance for Wind Requirements

Wind Exposure Category Basic Wind Speed (3 second gust) Q 100 mph

Quality Assurance Plan Required (Y/N) Z

The building is in wind exposure Category C with a 3-sec gust basic wind speed less than 110 mph therefore a quality assurance plan for wind is not required (IBC/2003 Section 1706.1.1.2).

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility (See attached).

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to trapproval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided requested the =;

Key for Minimum Qualifications of Inspection Agents:

designation shall appear below the Agency Number on the Schedule. When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such

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

American Concrete Institute (ACI) Certification

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

American Welding Society (AWS) Certification

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

American Society of Non-Destructive Testing (ASNT) Certification

Non-Destructive Testing Technician - Level II or III.

International Code Council (ICC) Certification

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

National Institute for Certification in Engineering Technologies (NICET)

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

Exterior Design Institute (EDI) Certification

EDI-EIFS EIFS Third Party Inspector

Other

4. Other			2. Controlled Structural Fill	1. Shallow Foundations	11 2 1
			□ F	ns	
	N	N	N	<i>Y</i> 2	Req'd Agency # Y/N (Qualif.)
			•	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report. Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill	Scope

Mix Design Y 2 Material Certification Y I Reinforcement Installation Y 2 Reinforcement Installation Y 2 Reinforcement Installation Y 2 Reinforcement Installation Y 2 Post-Tensioning Operations N Post-Tensioning Operations Y 2 Concrete Placement Y 2 Concrete Pla	Item	Req'd Y/N	Agency #	Scope
Material Certification Y 1 Reinforcement Installation Y 2 Post-Tensioning Operations N Post-Tensioning Operations N Anchor Rods Y 2 Anchor Rods Y 2 Sampling and Testing of Y 2 Concrete Placement Y 2 Concrete Concrete Concrete Placement Y 2 Other:	1. Mix Design	A	2	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
Reinforcement Installation Y 2 Post-Tensioning Operations N Post-Tensioning Operations N Welding of Reinforcing N Welding of Reinforcing Y 2 Anchor Rods Y 2 Concrete Placement Y 2 Concrete Placement Y 2 Concrete Concrete Placement Y 2	2. Material Certification	Y	I	Review certified mill test reports on reinforcing steel
Post-Tensioning Operations N Welding of Reinforcing N Anchor Rods Y 2 Concrete Placement Y 2 Concrete Concrete Concrete Concrete C	1			
Post-Tensioning Operations N Welding of Reinforcing N Anchor Rods Y 2 Concrete Placement Y 2 Concrete Concrete Concrete Concrete Concrete Concrete Other:		K	₩	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Welding of Reinforcing N Anchor Rods Y 2 Concrete Placement Y 2 Concrete Concrete Y 2 Concrete Y 2 Curing and Protection Y 2 Other: Other: Y 2	4. Post-Tensioning Operations	N		
Anchor Rods Y 2 Concrete Placement Y 2 Sampling and Testing of Y 2 Concrete Concrete Other:	Welding of Reinforcing	N		
Concrete Placement Y 2 Sampling and Testing of Y 2 Concrete Curing and Protection Y 2 Other:	6. Anchor Rods	Y	<i>\(\gamma\)</i>	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
Sampling and Testing of Y 2 Concrete Curing and Protection Y 2 Other:	7. Concrete Placement	Υ.	2	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
Curing and Protection Y 2 Other:	8. Sampling and Testing of Concrete	Y	2	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
0. Other	9. Curing and Protection	Y	2	Inspect curing, cold weather protection and hot weather protection procedures.
	10. Other:			

□ 2

	-		
Inspect size, location, spacing and embedment of dowels, anchors and ties.		٨	11. Other
Test compressive strength of mortar and grout cube samples (ASTM C780). Test compressive strength of masonry prisms (ASTM C1314).		V	Strength 10. Anchors and Ties
Inspect cold weather protection and hot weather protection procedures. Verify that wall cavities are protected against precipitation.		×	1
Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.	2	hve	i

inspect placement, positioning and lapping of reinforcing steel.	k	X7	1
Inspect construction of mortar joints including tooling and filling of head joints.	J 6	٧ ,	5. Reinforcement Installation
Inspect size, layout, bonding and placement of masonry units.	2	*	
Inspect proportioning, mixing and retempering of mortar and grout.	, k	4	3. Installation of Masonry
Review certified mill test reports on reinforcing steel	7	Y	Mixing of Motter and Group
Scope	Agency # (Qualif.)	Req'd Y/N	4 National Courts
			fom

e. Culei	0	8. Metal Deck	7. Structural Details	6. Shear Connectors		A Welding	4. Bolting	د. Open Web Steel Joists			Item 1. Fabricator Certification/
×		V	Y	Y	~	4	Y	×	¥		Req'd Y/N
		2	1	2	\		2		I and 2	1	Agency # (Qualif.)
	deck	including bracing, member configuration and connection details.	studs to 15 degrees. Inspect steel frame for compliance with structural Account.	Inspect size, number, positioning and welding of shear connectors. Inspect suds for full 360 degree flash. Ring test all shear connectors with a 3 lt. Language.	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds. Ultrasonic testing of all full-penetration welds.	that splines have separated from tension control bolts. Verify proper tightening sequence.	Inspect installation and tightening of high-strength bolts, Verify		Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes	Keview shop Jabrication and quality control procedures.	Scope

Contractor's Statement of Responsibility

Project:

Contractor's Name: Chestnut Lofts 29 Chestnut Street, Portland, ME

Address:

License No.:

Description of designated building systems and components included in the Statement of Responsibility:

Floor and roof diaphragms Structural Steel Braced Frames and associated connections

Contractor's Acknowledgment of Special Requirements

Inspection program. I hereby acknowledge that I have received, read, and understand the Quality Assurance Plan and Special

I hereby acknowledge that control will be exercised to obtain conformance with the construction documents approved by the Building Official.

Signature
Date

Contractor's Provisions for Quality Control

Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports is attached to this Statement.

Identification and qualifications of the person(s) exercising such control and their position(s) in the organization are attached to this Statement.

Field Report



Sebago Technics

Project No.: 05096 Date: 4/25/06
Project Name: Chestmut Street Lofts

Location: Chestnut Street at Cumberland Avenue,

Portland, Maine

Weather Conditions: Sunny, 50s Meeting With: Jack Goulet, Allied/Cook

Construction; Brad Baker, Colex

STI Present: Ken Recker

subgrade was moist but firm and I judged the subgrade suitable for support and placement of subgrade consisted of gray lean CLAY (CL); to gray brown silty SAND with gravel (SM). The to 3 feet below design subgrade level to remove petroleum contaminated soil. The exposed compacted structural fill. contractor, Colex LLC had excavated the northern portion of the basement area to approximately 2 I visited the site to observe subgrade conditions at the bottom of the excavation. The earthwork

to subgrade so that I can observe conditions. Requested that the contractor contact me when the southern portion of the basement excavation is

DISTRIBUTION
Alan Nichols, CMCS, LLC

Walter Arsenault, TFH Architects
Jack Goulet, Allied/Cook Construction

Brad Baker, Colex LLC

Copies To:

Signed: Lunch & Ruhn F.

Field Report



Sepago Technics

Project No.: 05096 Date: 5/08/06
Project Name: Chestnut Street Lofts

Project Name: Chestnut Street Lofts
Location: Chestnut Street at Cumberland Avenue,

Portland, Maine

Weather Conditions: Sunny, 50s
Meeting With: Jack Goulet, Allied/Cook

Construction

STI Present: Ken Recker

of the subgrade. support and placement of compacted structural fill following removal of standing water and drying silty SAND with gravel (SM). The subgrade appeared firm and I judged the subgrade suitable for subgrade was covered with water but appeared to consist of gray lean CLAY (CL); to gray brown to 3 feet below design subgrade level to remove petroleum contaminated soil. The exposed contractor, Colex LLC had excavated the southern portion of the basement area to approximately 2 I visited the site to observe subgrade conditions at the bottom of the excavation. The earthwork

removal of standing water. The earthwork contractor, Colex, had stockpiled structural fill soil consisting of brown well-graded SAND with gravel (SW) in the northern portion of the basement I requested that the contractor contact me if the subgrade appeared disturbed or yielding following

DISTRIBUTION

Alan Nichols, CMCS, LLC
Walter Arsenault, TFH Architects
Jack Goulet, Allied/Cook Construction
Brad Baker, Colex LLC

Copies To: Signed: Lund