

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED

Permit No: 01-0905	Issue Date: 2 2	CBL: 037 B001001
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Location of Construction: 380 Cumberland Ave	Owner Name: Macomber Peter	Owner Address: 380 Cumberland Ave	Phone: 207-772-1208
Business Name: n/a	Contractor Name: Structuretone	Contractor Address: 711 Atlantic Ave Boston	Phone: 6173482800
Lessee/Buyer's Name: n/a	Phone: n/a	Permit Type: Additions - Commercial	Zone: B-3

Past Use: Commercial / Studio	Proposed Use: Commercial / Data Center; Addition of 1000 sq.ft. one story building, new loading dock, raised bathrooms. Site Plan # 2001-0138	Permit Fee: \$40,086.00	Cost of Work: \$6,677,000.00	CEO District: 2
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Proposed Project Description:
1000 sq. ft. One Story Addition.

FIRE DEPT: Approved Denied

INSPECTION:
Use Group: 0 Type: 2A.
BOCA/100/1999

Signature: *[Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
Action: Approved Approved w/Conditions Denied
Signature: *[Signature]* Date:

Permit Taken By: gg	Date Applied For: 07/23/2001	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..

Full Scale Plans are on top of File Cabinet.

<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland <i>NA</i></p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input checked="" type="checkbox"/> Site Plan 2001-0138</p> <p>Maj <input type="checkbox"/> Minor <input checked="" type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: <i>ok with conditions</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
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CERTIFICATION

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

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
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RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE	DATE	PHONE
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10/19/01 I inspected partial underground plumbing 2-Laws JB

10/16 Footings, Rebar & Scaffolds for Greenhouse
Paul 

All Purpose 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: 380 LUMBERLAND AVE

Total Square Footage of Proposed Structure <u>16,000</u>	Square Footage of Lot <u>47,273</u> Sqft.
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Tax Assessor's Chart, Block & Lot Chart# <u>37</u> Block# <u>B</u> Lot# <u>1</u>	Owner: <u>PETER MACAMBER.</u>	Telephone: <u>772-1208</u>
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Lessee/Buyer's Name (if Applicable) <u>COMMTEL</u> <u>117 MAIN ST.</u> <u>WINTHROP, ME. 04364-0400</u>	Applicant name, address & telephone: <u>617-348-2800</u> <u>DONALD J SABOURIN</u> <u>STRUCTURETONE</u> <u>711 ATLANTIC AVE</u> <u>BOSTON MA. 02111-2809</u>	Cost Of Work: \$ <u>6,677,000.00</u> Fee: \$ <u>40,086.00</u>
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Current use: COMMERCIAL / STUDIO Auto-CAD
has been submitted
7/23/01

If the location is currently vacant, what was prior use: _____

Approximately how long has it been vacant: _____

Proposed use: COMMERCIAL / DATA CENTER

Project description: ADDITION OF 1000 SQFT. ONE STORY (BUILDING) ADDITION, NEW LOADING DOCK, REVISED BATHROOMS, NEW SWITCHGEAR, AND MECHANICAL SYS. TO SUPPORT DATA CENTER ON RAISED FLOOR,

Contractor's name, address & telephone: STRUCTURETONE, 711 ATLANTIC AVE. BOSTON MA. 02111-2809 617-348-2800

Who should we contact when the permit is ready: DONALD J SABOURIN

Mailing address: 711 ATLANTIC AVE
BOSTON MA. 02111-2809 Phone: 617 348-2800

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

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 of applicant: <u>Donald J Sabourin</u>	Date: <u>7/23/01</u>
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This is not a permit, you may not commence ANY work until the permit is issued

AN Hoo CD
7/24

BUILDING PERMIT REPORT

DATE: 30 July 2001 ADDRESS: 380 Cumberland Ave. CBL: 037-B-001
 REASON FOR PERMIT: To Construct a 1000 sq. FT. one story Addition/ADT.
 BUILDING OWNER: Peter Macomber
 PERMIT APPLICANT: _____ / CONTRACTOR Structure Tone
 USE GROUP: B CONSTRUCTION TYPE: 2A CONSTRUCTION COST: 6,677,000 PERMIT FEES: 240,000.00

The City's Adopted Building Code (The BOCA National Building Code/1999 with City Amendments)
 The City's Adopted Mechanical Code (The BOCA National Mechanical Code/1993)

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions shall be met: *1, *2, *11, *13
*21, *22, *23, *24, *30, *31, *32, *35, *38, *39, *40, *41

1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection) "ALL LOT LINES SHALL BE CLEARLY MARKED BEFORE CALLING."
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' O.C. between bolts. Section 2305.17
5. Waterproofing and dampproofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete and masonry. Concrete Sections 1908.9-19.8.10/ Masonry Sections 2111.3-2111.4.
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of 1/2 inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1999)
9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211
10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42". In occupancies in Use Group A, B, H-4, I-1, I-2, M, R, public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. Handrails shall be a minimum of 34" but not more than 38". Exception: Handrails that form part of a guard shall have a height not less than 36 inches (914 mm) and not more than 42 inches (1067 mm). Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2". (Sections 1021 & 1022.0). Handrails shall be on both sides of stairway. (Section 1014.7) **R-3 (ONE & TWO FAMILY DWELLINGS) GUARD HEIGHT IS 36" MINIMUM.**
12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use Group minimum 11" tread, 7" maximum rise. (Section 1014.0)
14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4
15. The Minimum required width of a corridor shall be determined by the most restrictive of the criteria under section 1011.3 but not less than 36".
16. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. (Section 1010.4)
17. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)
18. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closure's. (Over 3 stories in height requirements for fire rating is two (2) hours. (Section 710.0)
19. The boiler shall be protected by enclosing with (1) hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment. (Table 302.1.1)

7/23

- 20. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1999), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
 - In the immediate vicinity of bedrooms
 - In all bedrooms
 - In each story within a dwelling unit, including basements
- * 21. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. (Section 921.0)
- * 22. The Fire Alarm System shall be installed and maintained to NFPA #72 Standard.
- * 23. The Sprinkler System shall be installed and maintained to NFPA #13 Standard.
- * 24. All exit signs, lights and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023.0 & 1024.0 of the City's Building Code. (The BOCA National Building Code/1999)
- 25. Section 25 - 135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
- * 26. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.
- 27. Ventilation and access shall meet the requirements of Chapter 12 Sections 1210.0 and 1211.0 of the City's Building Code. (Crawl spaces & attics).
- * 28. All electrical, plumbing and HVAC permits must be obtained by Master Licensed holders of their trade. No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.
- 29. All requirements must be met before a final Certificate of Occupancy is issued.
- * 30. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (The BOCA National Building Code/1996).
- * 31. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical code (The BOCA National Mechanical Code/1993). (Chapter M-16)
- 32. Please read and implement the attached Land Use Zoning report requirements. *All requirements and conditions on the attached site development review sheets shall be met.*
- 33. Boring, cutting and notching shall be done in accordance with Sections 2305.3, 2305.3.1, 2305.4.4 and 2305.5.1 of the City's Building Code.
- 34. Bridging shall comply with Section 2305.16.
- * 35. Glass and glazing shall meet the requirements of Chapter 24 of the building code. (Safety Glazing Section 2406.0)
- 36. All flashing shall comply with Section 1406.3.10.
- 37. All signage shall be done in accordance with Section 3102.0 signs of the City's Building Code, (The BOCA National Building Code/1999).
- * 38. *See attached requirements from Chief Electrical Insp. Michael Collins*
- * 39. *Section 1795.0 (Special Inspection) shall be done as per this section.*
- * 40. *All penetrations shall comply with section 714.0*
- * 41. *Fire dampers shall comply with section 718.0*

[Signature]
 P. Sargent Hodges, Building Inspector
 Cc: M. McDougall, PFD
 Marge Schmuckal, Zoning Administrator
 Michael Nugent, Inspection Service Manager
[Signature]

PSH 10/1/00

****This permit is herewith issued, on the basis of plans submitted and conditions placed on these plans, any deviations shall require a separate approval.**

*****THIS PERMIT HAS BEEN ISSUED WITH THE UNDERSTANDING THAT ALL THE CONDITIONS OF THE APPROVAL SHALL BE COMPLETED. THEREFORE, BEFORE THE WORK IS COMPLETED A REVISED PLAN OR STATEMENT FROM THE PERMIT HOLDER SHALL BE SUBMITTED TO THIS OFFICE SHOWING OR EXPLAINING THAT THE CONDITIONS HAVE BEEN MET. IF THIS REQUIREMENT IS NOT RECEIVED YOUR CERTIFICATE OF OCCUPANCY SHALL BE WITHHELD. (You Shall Call for Inspections)**

******ALL PLANS THAT REQUIRE A PROFESSIONAL DESIGNER'S SEAL, (AS PER SECTION 114.0 OF THE BUILDING CODE) SHALL ALSO BE PRESENTED TO THIS DIVISION ON AUTO CAD LT. 2000, DXF FORMAT OR EQUIVALENT.**

*******CERTIFICATE OF OCCUPANCY FEE \$50.00**

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
Insp Copy**

2001-0138
Application I. D. Number

06/07/2001
Application Date

380 Cumberland Ave.
Project Name/Description

Macomber Peter
Applicant
380 Cumberland Ave, Portland, ME 04101
Applicant's Mailing Address
The Staubach Company
Consultant/Agent
Agent Ph: (781)235-5101 Agent Fax: (781) 235-3804
Applicant or Agent Daytime Telephone, Fax

380 - 380 Cumberland Ave, Portland, Maine
Address of Proposed Site
037 B001001
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Parking Lot Other (specify) Business services
adding 860 sq.ft. 1.08 B3
Proposed Building square Feet or # of Units 1.08 Acreage of Site B3 Zoning

Check Review Required:

- Site Plan (major/minor)
- Flood Hazard
- Zoning Conditional Use (ZBA/PB)
- Subdivision # of lots _____
- Shoreland
- Zoning Variance
- PAD Review
- Historic Preservation
- 14-403 Streets Review
- DEP Local Certification
- Other _____

Fees Paid: Site Plan _____ Subdivision _____ Engineer Review \$1,207.00 Date: 07/06/2001

Insp Approval Status:

Approved Approved w/Conditions See Attached Denied
Approval Date 08/20/2001 Approval Expiration 08/20/2002 Extension to _____ Additional Sheets Attached
 Condition Compliance Marge Schmuckal 08/20/2001
signature date

Performance Guarantee Required* Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input checked="" type="checkbox"/> Performance Guarantee Accepted	<u>08/06/2001</u> date	<u>\$60,350.00</u> amount	<u>06/25/2003</u> expiration date
<input type="checkbox"/> Inspection Fee Paid	_____ date	_____ amount	
<input type="checkbox"/> Building Permit Issued	_____ date		
<input type="checkbox"/> Performance Guarantee Reduced	_____ date	_____ remaining balance	_____ signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____ date	<input type="checkbox"/> Conditions (See Attached)	_____ expiration date
<input type="checkbox"/> Final Inspection	_____ date	_____ signature	
<input type="checkbox"/> Certificate Of Occupancy	_____ date		
<input type="checkbox"/> Performance Guarantee Released	_____ date	_____ signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____ submitted date	_____ amount	_____ expiration date

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
Planning Copy**

2001-0138
Application I. D. Number

06/07/2001
Application Date

380 Cumberland Ave.
Project Name/Description

Macomber Peter
Applicant
380 Cumberland Ave, Portland, ME 04101
Applicant's Mailing Address
The Staubach Company
Consultant/Agent
Agent Ph: (781)235-5101 Agent Fax: (781) 235-3804
Applicant or Agent Daytime Telephone, Fax

380 - 380 Cumberland Ave, Portland, Maine
Address of Proposed Site
037 B001001
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Parking Lot Other (specify) **Business services**

adding 860 sq.ft. **1.08** **B3**
Proposed Building square Feet or # of Units Acreage of Site Zoning

Check Review Required:

- Site Plan (major/minor) Subdivision # of lots PAD Review 14-403 Streets Review
- Flood Hazard Shoreland Historic Preservation DEP Local Certification
- Zoning Conditional Use (ZBA/PB) Zoning Variance Other

Fees Paid: Site Plan Subdivision Engineer Review **\$1,207.00** Date **07/06/2001**

Planning Approval Status:

Reviewer **Jonathan Spence**

- Approved **Approved w/Conditions** See Attached Denied

Approval Date **06/26/2001** Approval Expiration **06/26/2002** Extension to Additional Sheets Attached

OK to Issue Building Permit **Jonathan Spence** **08/06/2001**
signature date

Performance Guarantee **Required*** **Not Required**

* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input checked="" type="checkbox"/> Performance Guarantee Accepted	08/06/2001 date	\$60,350.00 amount	06/25/2003 expiration date
<input type="checkbox"/> Inspection Fee Paid	date	amount	
<input type="checkbox"/> Building Permit Issue	date		
<input type="checkbox"/> Performance Guarantee Reduced	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate of Occupancy	date	<input type="checkbox"/> Conditions (See Attached)	expiration date
<input type="checkbox"/> Final Inspection	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	date		
<input type="checkbox"/> Performance Guarantee Released	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	submitted date	amount	expiration date
<input type="checkbox"/> Defect Guarantee Released	date	signature	

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
ADDENDUM**

2001-0138

Application I. D. Number

06/07/2001

Application Date

380 Cumberland Ave.

Project Name/Description

380 - 380 Cumberland Ave, Portland, Maine

Address of Proposed Site

037 B001001

Assessor's Reference: Chart-Block-Lot

Macomber Peter

Applicant

380 Cumberland Ave, Portland, ME 04101

Applicant's Mailing Address

The Staubach Company

Consultant/Agent

Agent Ph: (781) 235-5101

Agent Fax: 7812353804

Applicant or Agent Daytime Telephone, Fax

Approval Conditions of Planning

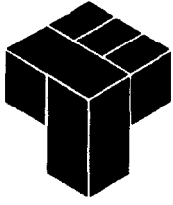
- 1 That the applicant submits catalog cuts for all pole and wall mounted fixtures and a photometric plan in compliance with the City of Portland's lighting standards.

Approval Conditions of Insp

- 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 are required for any new signage.
- 3 It is understood that the emergency generator will be tested on a regular basis. This testing shall be done at times that will least affect the neighboring residential units. All efforts shall be made to screen and diminish any generator or other motor sounds.
- 4 All other external effects shall be met as outlined in section 14-221.1 of the City of Portland's zoning ordinance.

Approval Conditions of DRC

- 1 All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.
- 2 The Development Review Coordinator (874-8632) must be notified five (5) working days prior to date required for final site inspection. Please make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.



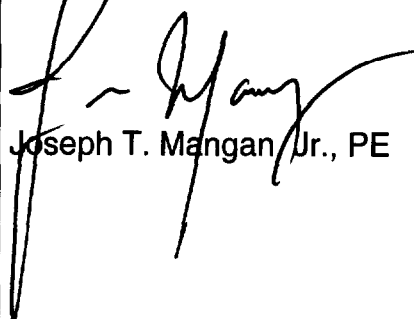
Memorandum

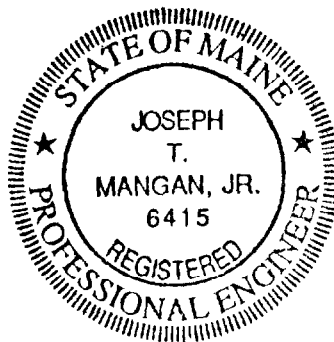
To:	Sam Hoffses Portland Building Department City Hall Room 315 389 Congress Street Portland, Maine 04101	Date:	July 10, 2001
		From:	Joe Mangan, PE
		Subject:	Foundation Permit
		Project No.	5501001.00

Dear Mr. Hoffses,

I am writing this letter to detail the structural design criteria for the Commtel Data Center located at 380 Cumberland Avenue, Portland, Maine. The foundation has been designed in accordance with "The BOCA National Building Code (1996) ¹⁹⁹⁹ and ACI 318-99. The foundation located at the west end of the building in the loading dock area was designed to support a moment frame steel structure with pinned connections at the base of the columns. The frame was designed to resist lateral loads and movements caused by seismic and wind, as well as, gravity loads due to snow drift. The foundation located at the east end of the building for the new addition was designed to support a moment frame steel structure with pinned connections at the base of the columns. The frame was designed to resist lateral loads and movements caused by seismic and wind, as well as, gravity loads due to snow drift. In addition the foundation walls and footings were designed to support precast concrete panels. The retaining wall located at the east end of the property was designed to support a 450 psf surcharge. The equipment pads in this area were designed to support the proposed generators and transformers.

Very truly yours,


Joseph T. Mangan, Jr., PE



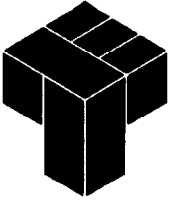
From: Michael Collins
To: Sam Hoffses
Date: Thu, Jul 26, 2001 12:48 PM
Subject: Commtel

RE: 380 Cumberland Ave.
Please add the following to your permit review sheet.

- 1) All lightning protection shall be installed by a Maine Licensed Lightning Arrester Person/Contractor/Company.
 - 2) All in-ground electrical conduits shall be installed by a Maine Licensed Electrician.
- Thanks,
"Electric Bear"

CC: David Caddell; Tammy Munson

Einhorn
Yaffee
Prescott



ARCHITECTURE &
ENGINEERING, P.C.

Transmittal

To: StructureTone
711 Atlantic Avenue
Boston, MA
02111

Date: 07/11/01

Job No.: 5501001.00

Attention: Don Sabourin

Re: Drawings & CD for permit

From: Kurt Lamar

We are sending you attached under separate cover via: _____ the following items:

- | | | |
|--|---------------------------------------|---|
| <input type="checkbox"/> Shop drawing | <input type="checkbox"/> Change order | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Plans | <input type="checkbox"/> _____ |
| <input checked="" type="checkbox"/> Prints | <input type="checkbox"/> Samples | <input type="checkbox"/> _____ |

Copies	Date	No.	Description
1	07/11/01	as noted	C101, C102, C103 1 SET FULL SIZE 1 SET HALF SIZE
1	07/11/01	as noted	S001, S002, SD101, S101, S102, S103, S401, S402, S403, S404 1 SET FULL SIZE 1 SET HALF SIZE
1	6/29/01	GZA	Supplemental Subsurface Explorations
1	7/10/01	-	Foundation Permit Letter to Building Depr.

These are transmitted as checked below:

- | | | |
|---|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Make corrections noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Rejected | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Revise and resubmit | <input checked="" type="checkbox"/> FOR PERMIT |
| <input type="checkbox"/> For bids due _____, 19 _____ | | <input type="checkbox"/> Prints returned after loan to us |

NOTE: Don-

Here are your copies -

Copy To: BB, NB

Signed: 

RECEIVED

JUL 02 2001

MEMORANDUM

TO: Mr. Kurt Lamar, AIA
Einhorn Yaffee Prescott
Einhorn Yaffee Prescott Architecture & Engineering, P.C. (EYP)

FROM: Christopher L. Snow, P.E.
William E. Hadge, P.E.

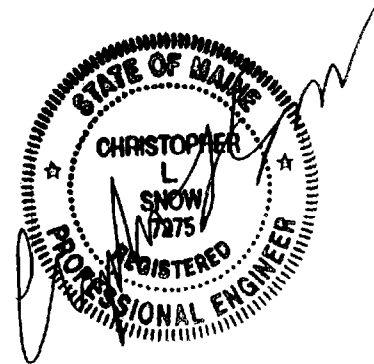
DATE: June 29, 2001

FILE NO.: 16775.00

SUBJECT: Supplemental Subsurface Explorations
CommTel Data Center
380 Cumberland Avenue
Portland, Maine



Four Free Street
Portland
Maine 04101
207-879-9190
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<http://www.gza.net>



This memorandum provides the results of GZA's supplemental subsurface exploration program for the proposed CommTel Data Center at 380 Cumberland Avenue in Portland, Maine. GZA services were provided in response to EYP's request, and in accordance with our June 13, 2001 proposal and the attached limitations.

SUPPLEMENTAL SUBSURFACE EXPLORATIONS

The supplemental explorations consisted of 24 solid auger probes, drilled on June 28, 2001 by Maine Test Borings, Inc. The probes were drilled to determine the depth to bedrock along the proposed underground utility corridor in the east parking lot, and at the proposed loading dock, west of the existing building. The probes were drilled until the augers hit refusal surfaces. Based on comparison to previous test borings by GZA, the refusal surfaces most likely consist of bedrock. However, since bedrock was not cored at any of the probe locations, it is possible that some of the refusals occurred on rock fragments, above the bedrock surface.

A Subsidiary of GZA
GeoEnvironmental
Technologies, Inc.

The probes encountered surficial asphalt pavement or topsoil, and sand and gravel fill above refusal surfaces at typical depths of 2 to 3 feet below ground surface. Generalized visual descriptions of the soil materials were made by GZA based on field observation of materials recovered from the augers. The results of the probes are summarized in Table 1, and the probe locations are shown on the attached Probe Location Plans.

CONSTRUCTION CONSIDERATIONS

The proposed utility ducts are expected to extend about 4 to 5 feet below ground surface, and 1 to 3 feet below the interpreted bedrock surface in most of the east parking area. Based on GZA experience, and discussions with local drilling and blasting contractors, we anticipate that the rock could most readily be excavated by drilling and blasting techniques. However, we do not recommend that blasting be used on this project due to the risk of damage to nearby underground utilities, fiber-optic lines and the telephone switching gear in the existing building.

In our opinion, the excavation can be completed by drilling closely-spaced holes with an air-track for burden relief along the perimeter, and then excavating the interior rock using a pneumatic ram. Our local contacts in the industry report that they have had good success with this method on past projects where the depth of bedrock excavation was about 2.5 feet or less. Greater excavation depths can be achieved by this technique, but the trench side-walls would need to be stepped, and the overall volume of rock excavation would increase as a result.



CLOSURE

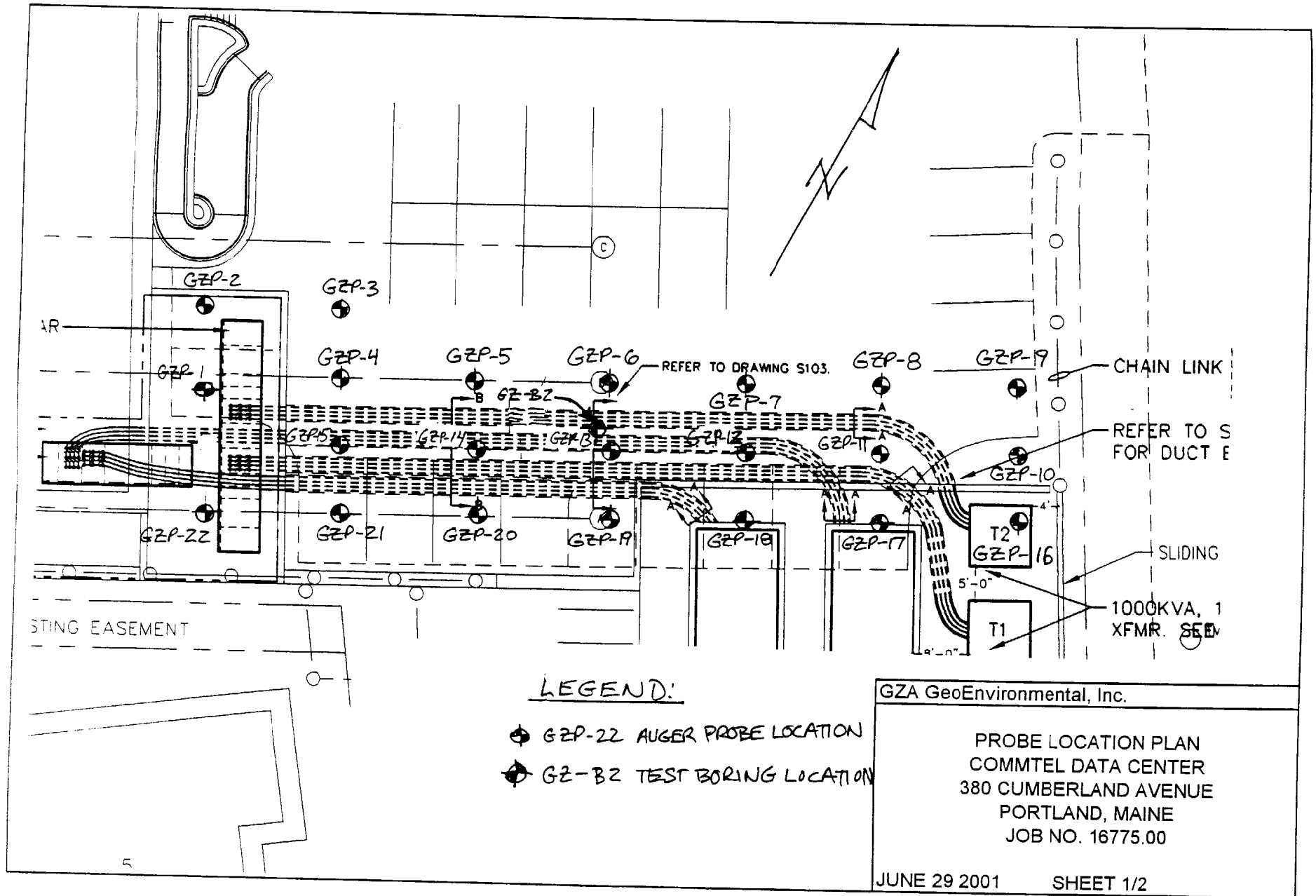
We trust this information meets current project needs. Please feel free to call Chris Snow at (207) 879-9190, or Bill Hodge at (781) 278-3700, if you have any questions regarding this memorandum.

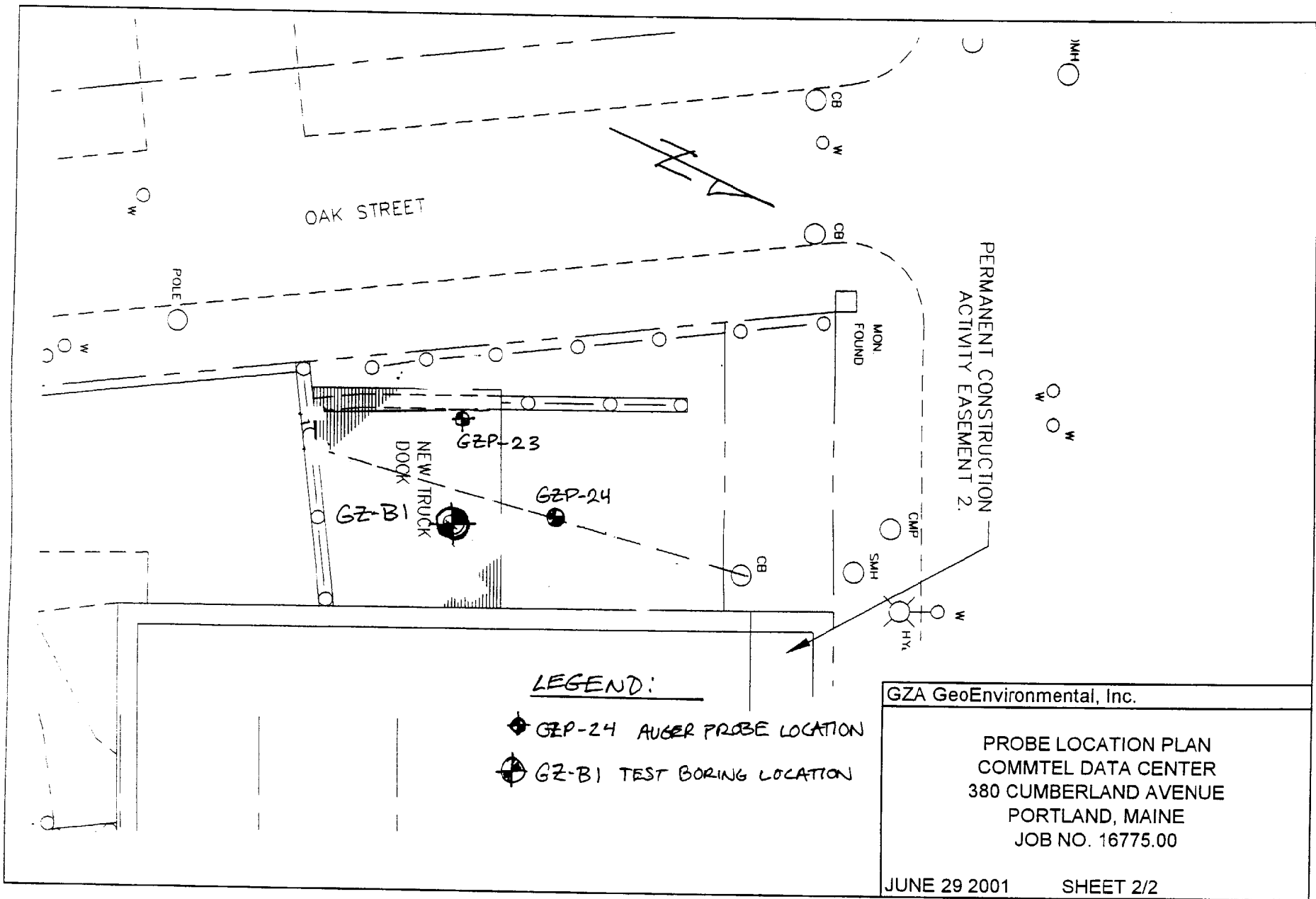
Attachments: Table 1, Summary of Auger Probe Results
Probe Location Plans - 2 sheets
Limitations

TABLE 1
SUMMARY OF AUGER PROBE RESULTS
Commtel Data Center
380 Cumberland Avenue
Portland, Maine

Probe Number	Topsoil/ Landscape Material	Asphalt	Sand & Gravel (Pavement Subbase)	Brown Sandy Fill	Depth to Refusal	Location
	Approximate Depth Below Ground Surface (ft)					
GZP-1	0.0-0.2			0.2-3.0	3	East pkg. area
GZP-2		0.0-0.2	0.2-2.0		2	East pkg. area
GZP-3		0.0-0.2	0.2-2.3		2.3	East pkg. area
GZP-4		0.0-0.3	0.3-2.0		2	East pkg. area
GZP-5		0.0-0.3	0.3-2.2		2.2	East pkg. area
GZP-6		0.0-0.2	0.2-1.9		1.9	East pkg. area
GZP-7		0.0-0.2	0.2-1.9		1.9	East pkg. area
GZP-8		0.0-0.2	0.2-3.5		3.5	East pkg. area
GZP-9	0.0-0.2			0.2-4.6	4.6	East pkg. area
GZP-10	0.0-0.2			0.2-3.0	3	East pkg. area
GZP-11	0.0-0.2			0.2-2.7	2.7	East pkg. area
GZP-12		0.0-0.3	0.3-2.3		2.3	East pkg. area
GZP-13		0.0-0.3	0.3-2.7		2.7	East pkg. area
GZP-14		0.0-0.3	0.3-2.4		2.4	East pkg. area
GZP-15		0.0-0.2	0.2-2.2		2.2	East pkg. area
GZP-16	0.0-0.2			0.2-3.5	3.5	East pkg. area
GZP-17	0.0-0.2			0.2-2.5	2.5	East pkg. area
GZP-18		0.0-0.3	0.3-2.4		2.4	East pkg. area
GZP-19		0.0-0.3	0.3-2.0	2.0-3.1	3.1	East pkg. area
GZP-20		0.0-0.3	0.3-2.0	2.0-6.5	6.5	East pkg. area
GZP-21		0.0-0.3	0.3-1.4		1.4	East pkg. area
GZP-22	0.0-0.1		0.1-2.7		2.7	East pkg. area
GZP-23		0.0-0.3	0.3-2.9		2.9	West paved area
GZP-24		0.0-0.3	0.3-2.0		2	West paved area

- Notes:
1. Probes were drilled on June 28, 2001 using solid augers.
 2. Soil materials were described by GZA personnel based on material recovered from the augers.





LEGEND:

- ◆ GZP-24 AUGER PROBE LOCATION
- ⊕ GZ-B1 TEST BORING LOCATION

GZA GeoEnvironmental, Inc.

PROBE LOCATION PLAN
 COMMTEL DATA CENTER
 380 CUMBERLAND AVENUE
 PORTLAND, MAINE
 JOB NO. 16775.00

LIMITATIONS

Explorations

1. The analyses and recommendations submitted in this report are based in part upon the data obtained from subsurface explorations. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, it will be necessary to re-evaluate the recommendations of this report.
2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the boring logs.
3. Water level readings have been made in the drill holes at times and under conditions stated on the boring logs. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature, and other factors occurring since the time measurements were made.

Review

4. In the event that any changes in the nature, design or location of the proposed building are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by GZA GeoEnvironmental, Inc. It is recommended that this firm be provided the opportunity for a general review of final design and specifications in order that earthwork and foundation recommendations may be properly interpreted and implemented in the design and specifications.

Construction

5. It is recommended that this firm be retained to provide testing, consultation and field observation services during the excavation and foundation construction of phases of the work. This is to observe compliance with the design concepts, specifications, and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to start of construction.

Use of Report

6. This geotechnical investigation report has been prepared for this project by GZA GeoEnvironmental, Inc. This report is for design purposes only and is not sufficient to prepare an accurate bid. Contractors wishing a copy of the report may secure it with the understanding that its scope is limited to design considerations only.
7. This report has been prepared for this project by GZA GeoEnvironmental, Inc. for the exclusive use of Einhorn Yaffee Prescott Architecture & Engineering, PC, and the project owner; and for specific application to proposed building additions and improvements to the site at 380 Cumberland Avenue in Portland, Maine in accordance with generally accepted soil and foundation engineering practices. No Warranty, express or implied, is made.





CITY OF PORTLAND, MAINE

Department of Building Inspection

7/23 20 01

Received from Comm Tel a fee

of 500.00 /100 Dollars \$ 40.00

for permit to install
 erect
 alter B - 100 sq ft

at 100 Commercial St Est. Cost \$ 1000.00

2003

Inspector of buildings
Per [Signature]

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$5.00 or 10% whichever is greater.

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Auditors Copy