City of Portland, Mai	ine - Building or Use	Permit Application	n Pe	rmit No:	Ti	ssuPlate:	ISSI	24)		1
389 Congress Street, 041	101 Tel: (207) 874-870	3, Fax: (207) 874-87	16	05-1260			4	125	A002	.001
Location of Construction:	Owner Name:		Owne	er Address:		17.7	Ph	one:	1	1
125 Presumpscot St	Presumpscot	Street Properties Llc	Po E	3ox 403						İ
Business Name:	Contractor Nam	e:		actor Address		1170		one		
	HardyPond C	onstruction			St S.	uite 11 Portlan	and 2077976066		5	
Lessee/Buyer's Name	Phone:			it Type:			Zone:			
			Coı	mmercial						LIM
Past Use:	Proposed Use:		Perm	nit Fee:	Co	st of Work:	CEO D	istri	et:	\
Vacant Land	Mixed Use Facility:	\	\$6,015.00	ر ا	\$665,200.00		4			
	Single story v	vood framed bldg	FIRE	E DEPT:	V A	pproteu	ECTION	\supset		*
	approximater	10 1034			D	enied Use G	iroup [\mathcal{I}	Ty	^{ype:} 50
	approximately Bld9 #						LIF	-/	. /	~
D ID ID	<u></u>		_				X	7/6	2	264
Proposed Project Description:	story wood fromad bldg	nnrovimetaly 700 of				61		01		1
whited use racinty. Single	story wood framed blug a	approximately si	PEDE	STRIAN ACT	rrtira	Signat			<u>~</u> ~	-4
Mixed Use Facility: Single	iskag.	101034	LEDE							
	ŭ	,	Actio	on: Appro	oved	Approved v	v/Conditio	ons	D	enied
			Signa	ature:			Date:			
Permit Taken By:	Date Applied For:		-	Zonin	g A	pproval				
dmartin	09/0 112005									
		Special Zone or Revi	iews	Zon	ing A	appeal	Hist	oric	Preserv	vation
		Shoreland Shoreland)	Varian	ce		Not	in D	istrict o	or Landmark
		Wetland		Miscel	laneo	us	Doe	es No	t Requi	re Review
		☐ Flood Zone PAne	17	Condit	ional	Use	Req	uires	s Review	W
			ų X						1	
		Subdivision		Interpr	etatio	n	App	orove	a	
		\$ Site Plan # 2005-00	89)	Approx	ved		App	orove	d w/Coi	nditions
		Maj Minor MM		Denied	l		Der	nied		
		of with conditional	105	late:			Date:	_	>	5
		1 3 (0)	107			1.			/	
		-								
		CERTIFICAT	ION							
			-							

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
DECRONGIDI E DEDCON IN CHARCE OF WORK TITLE		DATE	DHONE

Ci	ty of Portland, Mai	ne - Building or Use Permit	t	Permit No:	Date Applied For:	CBL:
	•	01 Tel: (207) 874-8703, Fax: (05-1260	09/01/2005	425 A002001
Loc	ation of Construction:	Owner Name:	Ī	Owner Address:	!	Phone:
12	5 Presumpscot St	Presumpscot Street Pro	operties Llc	Po Box 403		
Bus	iness Name:	Contractor Name:	(Contractor Address: Phone		
		HardyPond Constructi	on	1039 Riverside St	Suite 11 Portland	(207) 797-6066
Less	see/Buyer's Name	Phone:]	Permit Type:		
			_	Commercial		
	mmercial Mixed Use Fac proximately 10,103sf - E	cility: Single story wood framed bl Bldg #1	_	Use Facility: Singl 8sf - bldg #1	le story wood framed	bldg approximately
	2) Please provide th class	ing project conformity with the 20 ssification of the Roof Covering. manufactured wood products is re		Energy Conservat	ion Code.	
	· 	ted reflecting a code compliant acc				
	-	Status: Approved with Condition	s Reviewer:	Cptn Greg Cass	Approval Da	
	ote:					Ok to Issue: 🗹
1)	Storage occupancy is lin	nited to low or ordinary hazard ma	aterials.			
2)	All building constructio	n to comply with NFPA 101				
3)	All required rated seper	ations shall be inspected prior to be	eing enclosed			
	ept: DRC S	Status: Approved with Conditions	s Reviewer:	Sebago Technic	Approval Da	te: 08/16/2005 Ok to Issue:
1)	see Planning conditions					
De	ept: Planning S	Status: Approved with Conditions	s Reviewer:	Kandi Talbot	Approval Da	
No	ote:					Ok to Issue: 🗹
1)	5. The City Arborist sh	all review and approve the landsca	ping plan.			
2)	shall contribute \$1,000 to	nall revise the plans to reflect the c cowards the installation of a 5-secti to issuance of a building permit.				
3)	4. No construction shall provided to the City.	l occur until a soil assessment per l	DEP guidance ha	as been approved by	y the DEP and DEP	approval is

Location of Construction:	Owner Name:		Owner Address:	Phone:			
125 Presumpscot St	Presumpscot Street Prope	erties Llc	Po Box 403				
Business Name:	Contractor Name:		ContractorAddress:	Phone			
	HardyPond Construction		1039 Riverside St Suite 11 Portland	(207) 797-6066			
Lessee/Buyer's Name	Phone:		Permit Type:	•			
				Commercial			
	•						

	Applicant: Hardy Dand Con St	Date:	9/2/05	
	Applicant: Hardy Pand Const Address: 125 Presupscot St	C-B-L:	425-A-00Z	
	CHECK-LIST AGAINST ZONING		VANCE	
	Date-EHStin Development		#05-1260	
	Zone Location - I - M			
	Interior or corner lot -			
	Proposed Use Work - Myed use fac Ity - N	lew B	ldg#1	
	Servage Disposal - CX4			
	Lot Street Frontage - 60 min - 400-	+8	heron	
	Lot Street Frontage - 60 mm - 400- Front Yard - 1' for every 1'of haught - 2 Rear Yard - 1' for every 1' of height but Not 20.5' high Side Yard - 1' for every 1' of height but Not 20.5' high	20,5'C	eg = 1-25/8/04	_
	Rear Yard - 1' for every 1' of height but Not	more M	The 25/-25/56	in
	Side Yard - I' for every I'of harght but No	more		
	Projections -			
	Width of Lot - NA			
	Height- 75 MAX - 20,5 Schlad			
	Lot Area - Nomin (ot size - 6.25 Acres		,	
	Lot Coverage/Impervious Surface - 75 & MAX -	-626 AL NO	given Ver Hothande	
	Area per Family - UA			
	Off-street Parking - 10, 103 - 400 = 25, 26 Pkg	Spaces	reg - 36 Neptg	Í
	Loading Bays - NA		STACES OF	سا تعا
	Site Plan - 2005 - 0088			
	Shoreland Zoning/Stream Protection - N			
1.A.G.	Flood Plains-JANel 7 - Zone X			
	Flood Plains-JANel 7 - Zone X 10' PAVE ment Setback to boun	day	lines - Shoring 101	
revised	Plans received on 10/7/05 sk	J	5 50	

Page 2 of 8

Roundhouse Property Expansion

Inspectors and testing agencies shall submit interim reports to the Special Inspection Coordinator as indicated below:

- 1. **Upon** completion **of inspections** of **soils** below footings for **adequate bearing** capacity **and** consistency with **geotechnical report** for **each** building
- 2. Upon (1) completion inspection of the removal of unsuitable material and preparation of subgrade prior to placement of controlled fill and (2) testing of controlled fill. for each building
- 3. Upon completion of inspections of wood framed walls for each building
- 4. Upon completion of inspection of the completed roof structure (i.e., erected and braced wood roof trusses, including the installation of roof sheathing

Page 3 of 8 Schedule of Inspection and Testing Agencies

This Statement of Special Inspection	ns/ Quality Assurance Plan includes	the fallowing building systems:
Soils and Foundation Cast-in-Place Concre Precast Concrete Masonry Structural Steel Cold-Farmed Steel F	ete Wood Cons Exterior Insi Mechanical Architectura	ulation and Finish System & Electrical Systems al Systems
Special inspection Agencies	firm	Address, Telephone, e-mail
1. Special Inspection Coordinator Person L. Lineau	Lincoln/Hansy Enerica	6 FEDERAL ST. BRUSSINGE, ME 04011 729-1061 pline-incompline-inhance.com
2. Inspector JAMES P. CURLEY	Lincoln/Honsy Engalo	6 Februar Ft. Barriwish, ME 04011 729-1661 jeurlan alinealnhanan-com
3. Inspector Doger Domina. Supervisor	S.W. COW ENGINEERING	286 PORTLAND ROAD GRAY, ME 04039 657-2866
4. Testing Agency ROGER DOMINGS, SUICKYNIE	S.W. COLE ENGINEOUNG	286 PORTLAND ROAD GRAY, ME 04039 657-2866
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.

Page 4 of 8

Quality Assurance Plan

Quality **Assurance** for **Seismic Resistance**

Seismic Design Category C. (GLOG.1); D (BLOG.3)

Quality Assurance Pian Required (Y/N) No $(S_{05} \le 0.5 + 3.5)$

Description of seismic farce resisting system and designated seismic systems:

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) 95 M M Wind Exposure Category Quality Assurance Plan Required (Y/N) No.

Description of wind force resisting system and designated wind resisting components:

Statement of Responsibility

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

Soils and Foundations

Page 5 of 8

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	# 4 - PE/GE	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
2. Controlled Structural Fill	#4 PE/GE	Perform sieve tests (ASTM D422 & 01140) and modified Proctor tests (ASTM D1557) & each source of fill material. Inspect placement, lift thickness and compaction of controlled fill Test density of each lift of fill by nuclear methods (ASTM D2922) Verify extent and slope of fill placement.
3. Deep Foundations	PE/GE	Inspect and log pile driving operations. Record pile driving resistance and verify compliance with driving criteria. Inspect piles for damage from driving and plumbness. Verify pile size, length and accessories. Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata.
4. Load Testing		
4. Other:		

Wood Construction

Page 6 of 8

item	Agency # (Qualif.)	Scope
Fabricator C tifi ti / Quality Control Procedures Fabricator Exempt	井つ (15)	Inspect shop fabrication and quality control procedures for wood truss plant.
2. Material Grading	₩ 72 (PE)	INSECT SECIES & GRADE OF PRIMARY FRAMING MEMBERS
3. Connections	#~ (85)	INSPECT ANCHORAGE OF WALL BANGUS TO SOUNDATION
4. Framing and Details	47 (PE)	INSPECT SIZE & ARRANGEMENT OF PRIMARY FRAMING MEMBERS
5. Diaphragms and Shearwalls	#2 (PE)	Inspect size, configuration. blocking and fastening of shearwalls and diaphragms. Verify panel grade and thickness.
5. Prefabricated Wood Trusses	# 7. (PS)	Inspect the fabrication of wood trusses.
7. Permanent Truss Bracing	보~_ (P도)	inster complice beautive
3. Other:		



Commercial 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.

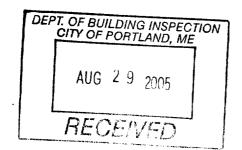
Location/Address of Construction: 125	PRESUM	PSCOT S	TREET	CHE RO	NDHOUSE)
Total Square Footage of Proposed Structure BUILDING # O,000 SF.	,	Square Foota			
A					,
Lessee/Buyer's Name (If Applicable)	HARDYI 1039 F PORTLA	me, address & POND CON IVERSIDE ND, ME	JORUTION ST. STE.1 04103	Cost Of Work: \$_ Fee: \$	665,200.00 (60)
Current Specific use: MIXED USE FACIL OFFICE, DAYCAPE, P Proposed Specific use: SAME	-117	17.6066 J)	CONTACT:	eric Mora	Total 60
Project description:					
Contractor's name, address & telephone: HA 10 Who should we contact when the permit is read Mailing address: SAME AS ABOVE	39 RIVER	CONSTRU SIDE ST. PACTOR (E	STE. II ERIC MOR	A)	7.6066 2, ME 04103 3245799 797.6066
Please submit all of the information outlind to so will result in the automatic denial o					
At the discretion of the Planning and Development D further information stop by the Building Inspections of	epartment, add office, room 31	itional informati 5 City Hall or ca	on may be req ll 874–8703.	uired prior to p	permit approval. For
I hereby certify that I am the Owner of record of the named authorized by the owner to make this application as his/her f a permit for work described in this application is issued, I areas covered by this permit at any reasonable hour to enforce	authorized agent certify that the C	. I agree to confo ode Official's auth	rm to all applica norized represent	ble laws of this j ative shall have	urisdiction. In addition,
Signature of applicant:			Date: 8	.25.05	
Permit Fee: \$30.00 for the first \$100 Permit; you may	AUG 2	SING'INSPECT ORTLAND, ME Ince any wol 2 5 2005 EIVED			1000.00 cost

Hardypond Construction

1039 Riverside Street, Ste. 11 Portland, ME 04103

TRANSMITTAL

To: City of Portland, Maine Attention: Marge Shmuk	kle	Date: 10/6/0 Job#: 0522 RE: Round	05 dhouse Property Expansion
WE ARE SENDING YOU Attach	ed via hand delivery the fo	ollowing items:	
☐ Shop Drawings	X Plans	Letter	Specifications
Samples	Prints	Change Order	Other:
COPIES DATE NO. 2 10/5/05	Revised Site Plan		uption an)
THESE ARE TRANSMITTED: X For Review and Comment	X For Approval	For Your Use	As Requested
Approved as Submitted	Approved as Noted	Returned After	Loan Resubmitted
Returned for Corrections	Submitted	Returned	Install Fee Schedule
Contract			



Building#

STATEMENT OF SPECIAL INSPECTIONS

	- W
	—
PROJECT:	,

Roundhouse Property Expansion

LOCATION:

125 Presumpscot Street Portland, ME

PERMIT APPLICANT: HARDYPOND CONSTRUCTION

APPLICANT'S ADDRESS: 1039 RIVERSIDE ST. PORTLAND, ME

STRUCTURAL ENGINEER OF RECORD: William Haney Lincoln/Haney

Engineering

ARCHITECT OF RECORD: Greg Ninow Cubellis

Firm

of the This Statement of Special Inspections is submitted in accordance with Section National Building Code. It includes a listing of special inspections applicable to this project as well as the name of the Special Inspector, and the rames of other agencies intended to be retained for conducting these inspections.

The Special Inspectorshall keep records of all inspections listed herein, and shall furnish inspection report-to the Code Official and to the Registered Design Professional of Record. All discrepancie shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Code Official and to the Registered Design Professional of Record. Interim reports shall be submetted to the Code Official and to the Registered Design Professional of Record monthly, unless more frequent submissions are requested by the Code Official.

Job site safety is solely the responsibility of the Contractor. Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect or install the materials listed

Lincoln/Haney Engineering

Applicant's Authorization:

Building # 1

		FROM	DESIGNER	:	coln/Ha	ney Zna	Ineering Associates
		DATE:			8/26/0	5	
		Job Nar	nė;	Round	lhouse f	roperty	Expansion
		Address	of Construc		7e sump		treet Portland, ME
					2003 Internatio	nal Building Co	<u></u>
	-	*	Constru	ction project wa	s designed accord	ing to the building	g code criteria listed below.
		Buildin	g Code and	Year <u>[] </u>	Use C	Group Classificat	tion(s) Wants
		Typs of	Constructio	n <u> </u>			ſ
		Will the S	Structure have	a Fire suppression	system in Accordan	nce with Section 903	3.3.1 of the 2003 IRC
				161.	s, separated or non s		.
		Superviso	ory alarm syste	m7Geor	echnical/Soils repor	t required?(See See	ction 2802.2) Ye <u>s</u>
N	Dr ocali	awings Sul Wations Si	STRUCTURAL MIHE d	DESIGN CALCU Submitted for a (106.1, 106.	LATIONS Il structural membere (.1)	<u>N/A</u>	Live load reduction (1603.1.1, 1607.8, 1607.10) Roof live loads (1603.1.2, 1607.11)
8				S ON CONSTRU	TION DOCUMENTS		da (1603.1.3, 1608)
ò	8,		(1803)			60	Ground enow load, Pg (1608.2)
•	3		-		ds 1603.1.1, 1607)	46.2	If P _O > 10 psi, flat-roof enow load, <i>Pr</i> (1608.3)
500	0.8		Floor Area		Loade Shown	1.0.	If Pg > 10 psf, snow exposure factor, Co
<u>)</u>	Ĭ	40	1.0000			1.0	(Table 1808.3.1)
-16.9	Ö,	٧٠					if $P_{d} > .10$ pst, enow load importance factor, is (Table 1604.5)
3	ور	2"		· · · · · · · · · · · · · · · · · · ·		<u> </u>	Roof thermal factor, C ₁ (Table 1608.3.2)
8.0	Ţ	Cus,				50 (min.)	Sloped roof snowload, P. (1808.4)
3	120	7-0			•	C	Selemic dealgn category (1816.3)
0		328	Wind loads (160	13 1 4. 1809)		K	Basic selamic-force-realisting system
W			implified	ì	llzed (1609.1.1, 1609	66/2/4	(Table 1617,8.2)
	 	72.00	95	Basic wind spee		, <u>v 2 </u>	Response modification coefficient, R. and deflection amplification factor, Co
₩,		工工	11.0	Building category	end wind importance	Simplified	(Table 1617.6.2) Analysis procedure (1616.6, 1617.5)
_	<u> </u>	-222	B.	•	6 1604.5, 1609.5)	12,300#	Design base sheat (1617.4 (1617.5.1)
6.7		38,5 +	0.18	Wind exposure c	coefficient (ASCE 7)		500.00
	4	4		•	cleiding pressures	Flood loads (18)	
$\overline{\omega}$		-	4	(1809.1.1, 160	9.6.2.2)	NA	Flood hazard area (1612.3)
_	7		<u>-</u>	Main force wind p 1609.6.2.1)	ressures (1609.1.1,	1.1 1.	Elevation of structure
3	X	2	المحام عداء الماشي	an data /1002 1 E	1012 1000)	ebeol redtO	Concentrated leads (1507.4)
J	19		jeraj Jeraj	gn data (1603,1,5, Design option util	•	N/A	Partition loads (1607.5)
-	-	<u> </u>	Ī	Seiamic use grou		NA	Impact loads (1507.8)
	C-	s=.50/5		(Table 1604.5,	1616.2)	NA	Misc. loads (Table 1607.6, 1607.6:1,
	<i>></i> 0	2 - 20 5	DI-US	Spectral response Soc (1615.1)	a coefficients, Sps &		(607.7, 1607.12, 1807.13, 1610, 1611, 2404)
			Т	Site class (1615)	r ger		

MSION



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

_		
	l ()·	

Inspector of Buildings City of Portland, Maine

Department of Planning & Urban Development Division of Housing & Community Service

FROM:

Gragory Nuron

RE:

Certificate of Design

DATE:

These plans and / or specifications covering construction work on:

TOWNON WAS 125 HOWINGER SAIN

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

(SEAL)

Signature

Title:

As per Maine State Law:

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



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

ACCE	SSIBILITY CERTIFICATE
Designer:	Kongerates
Address of Project:	Clayumpaid arcest
Nature of Project:	al the man
AND APPENDI	
	ng the proposed construction work as described above with applicable referenced standards found in the
Maina Limon Dights I am and Ca	aral Americans with Disability Act.
	AMMON)
	Signature:
ASAN ASAN	Title: Maral
(SEAL)	Firm: Cupa is Assaures
	Address: 100 For Street
	Portland Me
	Phone: (207) 974-2777



City of Portland Site Plan 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.

Address of Proposed Development: 125 PRESUMPSCUT STREET (RUNDHOUSE) Zone: IM						
Total Square Footage of Proposed Structure:		Square Footage of Lot:				
23,647 SF		296,386 SF (6.85 mas)				
Tax Assessor's Chart, Block & Lot: Chart# 425 Block# A Lot# 2	Property own Teres P. O.	Telephone #.				
Consultant/Agent, mailing address, phone # & contact person:	telephone#,	name, mailing address, /Fax#/Pager#:	Project name:			
DELICA HUFFMAN ASSICIATES INC	Je	zwne Ade	Roundhouse Expansion			
778 MAIN STREET	Po	150x 403	Expansions			
S. PERTLAND, MANE CHICL	Pa	Hand, ME CY112				
775-1121						
Proposed Development (check all that apply) New BuildingBuilding AdditionChangWarehouse/DistributionParking lotSubdivision (\$500.00) + amount of lots (\$2Site Location of Development (\$3,000.00) (except for residential projects which shall be \$20Traffic Movement (\$1,000.00)StormwateSection 14-403 Review (\$400.00 + \$25.00 per lotOther	5.00 per lot) \$ 0.00 per lot r Quality (\$250.)	Manufacturing			
Vinor Site Plan Review						
Less than 10,000sq. ft. (\$400.00)	u de es					
After-the-fact Review (\$1,000.00 + applicable app	ucation fee)					
'lan Amendments						
Planning Staif Review (S250.00)						
Planning Board Review (\$500.00)		- Please see next page	-			

Who billing will be sent to: (Company, Contact Person, Address, Phone #) マンタル みんし アン スルム イロラ

Partma, ME 04112

235-1193

Submittals shall include (9) separate folded packets of the following:

- a. copy of application
- **b.** cover letter stating the nature of the project
- c. site plan containing the information found in the attached sample plans check list

Amendment to Plans: Amendment applications should include 6 separate packets of the above (a, b, & c)

ALL PLANS MUST BE FOLDED NEATLY AND IN PACKET FORM

Section 14-522 of the Zoning Ordinance outlines the process; copies are available at the counter at .50 per page (8.5 x11) you may also visit the web site: <u>ci.portland.me.us_chapter 14</u>

1 bereby 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: Styles Buch agent Date: 4/20/05

This application is for site review ONLY, a building Permit application and associated fees will be required prior to construction.

Development in **Portland**

The City of Portland has instituted the following fees to recover the costs of reviewing development proposals under the Site Plan and Subdivision ordinances: application fee; engineering fee; and inspection fee. Performance and defect guarantees are also required by ordinance to cover all site work proposed.

The Application Fee covers general planning and administrative processing costs, and is paid at the time of application.

The Planning Division is required to send notices to neighbors upon receipt of an application and prior to public meetings. The applicant will be billed for mailing and advertisement costs. Applicants for development will be charged an Engineering Review Fee. This fee is charged by the Planning Division for review of on-site improvements of a civil engineering nature, such as storm water management as well as the engineering analysis of related improvements within the public right-of-way, such as public streets and utility connections, as assessed by the Department of Public Works. The Engineering Review fee must be paid before a building permit can be issued. Monthly invoices are sent out by the Planning Division on a monthly basis to cover engineering costs.

A Performance Guarantee will be required following approval of development plans. This guarantee covers all required improvements within the public nght-of-way, plus certain site improvements such as landscaping, paving, and drainage improvements. The Planmng Division will provide a cost estimate form for figuring the amount of the performance guarantee, as well as sample form letters to be filled out by a financial institution.

An Inspection Fee must also be submitted to cover inspections to ensure that sites are developed in accordance with the approved plan. The inspection fer is 2.0% of the performance guarantee amount, or as assessed by the planning or public works engineer. The minimum inspection fee is \$300 for development, unless no site improvements are proposed. Public X'orks inspects work within the City right-of-way and Planning inspects work within the site including pipe-laying and connections. (The contractor must work with inspectors to coordinate timely inspections, and should provide adequate notice before inspections, especially in the case of final inspection.)

Upon completion of a development project, the performance guarantee is released, and a Defect Guarantee in the amount of 10% of the performance guarantee must be provided. The Defect Guarantee will be released after a par.

Other reimbursements to the City include actual or apportioned costs for advertising and mailed notices. All fees shall be paid prior to the issuance of any building permit.

For more information on the fees or review process, please call the Planning Division at 871-8719 or 874-8721.



City Of Portland Site Plan Checklist

Project Name, Address of Project Application Number

Submitted () & Date Item Required Information

Section 14-525 (b,c)

1 4/20/05	(1)	Standard boundary s wey (stamped by a registered surveyor, at a	1
م المجالة	(2)	scale of not less than 1 inch to 100 feet and including:	
1 1/23/05	(2)	Name and address of applicant and name of proposed development	a
	_ (3)	Scale and north points	b
<u> </u>	_ (4)	Boundaries of the site	C
<u>,</u>	_ (5)	Total land area of site	d
J	_ (6)	Topography - existing and proposed (2 feet intervals or less)	e
	- (7)	Plans based on the boundary survey including:	2
<u></u>	_ (8)	Existing soil conditions	a
<i>J</i>	- (9) (10)	Location of water courses, marshes, rock outcroppings and wooded areas Location, ground floor area and grade elevations of building and other	b c
	- (10)	structures existing and proposed, elevation drawings of exterior facades, and materials to be used	
<u> </u>	(11)	Approx location of buildings or other structures on parcels abutting the site	d
	(12)	Location of on-site waste receptacles	\boldsymbol{e}
	(13)	Public utilities	\boldsymbol{e}
	(14)	Water and sewer mains	e
	(15)	Culverts, drains, existing and proposed, showing size and directions of flows	e
	(16)	Location and dimensions, and ownership of easements, public or private	f
		rights-of-way, both existing and proposed	
<u> </u>	(17)	Location and dimensions of on-site pedestrian and vehicular access ways	
	(18)	Parking areas	g
	(19)	Loading facilities	g
	(20)	Design of ingress and egress of vehicles to and from the site onto public streets	g
	(21)	Curb and sidewalks	g
	(22)	Landscape plan showing:	h
	(23)	Location of existing proposed vegetation	h
	(24)	Type of vegetation	h
·	(25)	Quantity of plantings	h
	(26)	Size of proposed landscaping	h
/	(27)	Existing areas to be preserved	h
2	(28)	Preservation measures to be employed	h
K2 1	(29)	Details of planting and preservation specifications	h
	(30)	Location and dimensions of all fencing and screening	i
The desided	(31)	Location and intensity of outdoor lighting system	j
J. Jujas	(32)	Location of fire hydrants, existing and proposed	k
Je you father	(33)	Written statement	c
Vice teller	(34)	Description of proposed uses to be located on site	l
MA	(35)	Quantity and type of residential, if any	l
	(36)	Total land area of the site	b2
	(37)	Total floor area and ground coverage of each proposed building and structure	b2
NIA	(38)	General summery of existing and proposed easements or other burdens	c3
	(39)	Method of handling solid waste disposal	4
<u> </u>	(40)	Applicant's evaluation of availability of off-site public facilities, including sewer, water and streets	5
<u>/</u>	(41)	Description of any problems of drainage or topography, or a representation that there are none	6
	(42)	An estimate of the time period required for completion of the development	

• 1.					
N/A	(43)	A list of all state and federal regulator subject to	y appro	ovals to which the development may be	8
	(44)	The status of any pending application	s		8
	(45)	Anticipated timeframe for obtaining s	h8		
dili-	(46)	A letter of non jurisdiction			h8
	(47)	Evidence of financial and technical ca including a letter from a responsible f planned development and would serio	inancia	r to undertake and complete the development institution stating that is has reviewed the onsider financing it when approved.	nt
Note: Depending on the information, including (Planni	ng Board or Planning Authority may request	additional
- drainage patterns a			-	an environmental impact study;	
erosion and sedime a parking and/or tr and	entation cor eaffic study;	atrols to be used during construction;	Ξ	a sun shadow study; a study of particulates and any other noxio	us emissions
a noise study;			-	a wind impact analysis.	

Neighborhood Meetings

In May of 2001, the Planning Board's review procedures were revised to improve neighborhood notification and encourage communication between applicants for development and neighborhood residents.

Neighborhood meetings, organized and hosted by the applicant, are <u>now required for zone</u> change proposals. subdivisions of 5 or more units/lots, and for any major site plan proposals <u>only</u>. Notification of the neighborhood meeting must be mailed to property owners within 500 ft. of the development parcel.

Scheduling of Neighborhood Meeting:

The neighborhood meeting must be held after the first Planning Board workshop but not less than seven (7) days prior to the Planning Board public hearing.

The meeting should be held in the evening, during the week, at a location in the neighborhood.

Upon request, the Planning Division will provide to the applicant mailing labels for the neighborhood meeting invitation. We require 48 hours notice to generate the mailing labels. A charge of \$1.00 per sheet of labels will be payable upon receipt of the labels.

Notice:

The applicant shall send notices to property owners within 500 ft. of the development site at least 7 days **prior** to the neighborhood meeting. Notice shall contain a brief description of the project, date, time and location of the neighborhood meeting.

Sign-up Sheets and Meeting Minutes:

At the meeting, the applicant shall circulate a sign-up sheet for those in attendance. The applicant shall also keep minutes of the meeting.

After holding the neighborhood meeting, the applicant shall submit the sign-up sheet and meeting minutes to the Planning Division. The meeting minutes and sign-up sheet will be attached to the Planning Board report. A public hearing will not be scheduled until the meeting minutes and sign-up sheet are submitted to the Planning Authority.

Please call the Planning Office (874-8719) if you have any questions.

Hardypond Construction

1039 Riverside Street, Ste. 11 Portland, ME 04103

TRANSMITTAL

To: City of Portland, Maine Attention: Mike Nuger		Date: 10/05/05 Job#: 0522 RE: Roundhous	e Property Expansion
WE ARE SENDING YOU Attac	ched via hand delivery the fo	ollowing items:	
[] Shop Drawings	Plans	Letter	Specifications
Samples	Prints	Change Order	X Other:
COPIES DATE NO. 1 8/2/05	Geotechnical Rep	ort (S.W. Cole Engine	ering)
THESE ARE TRANSMITTED: [] For Review and Comment	For Approval	X For Your Use	As Requested
Approved as Submitted	Approved as Noted	Returned After Loan	Resubmitted
Returned for Corrections	Submitted	Returned	Install Fee Schedule
Contract			
Remarks: Eric S. Mora, Project	_		BECEINED OC1 - 1 5002
Cc: Project File	797'	6064	DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME CITY OF PORTLAND, ME

GEOTECHNICAL ENGINEERING SERVICES PROPOSED BUILDINGS 1,2 AND 3 125 PRESUMPSCOT STREET PORTLAND, MAINE

05-0357

August 2,2005

PREPARED FOR:

Ade Property Management Attention: Jerry Ade P.O. Box403 Portland, Maine

PREPARED BY:



286 Portland Road Gray, Maine 04039

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occupy a plan area of about 10,100 SF at a finished floor elevation (FFE) of 31.5 feet. Building 2 will occupy about 6,100 SF of plan area at a FFE of 31.5 feet. Building 3 will occupy a plan area of about 7,500 SF at a FFE of 32.5 feet. Based on the proposed site plans, we anticipate Buildings 1 and 2 will require tapered fills approaching 1 to 2 feet to establish slab elevation and Building 3 will require a tapered cut approaching 6 feet and a tapered fill approaching 2 feet. A new site retaining wall, approaching 7 feet in height, is proposed on the south and west sides of Building 3. A new below grade stormwater storage system is proposed beneath the new parking area north of Building 3. Proposed and existing site features are shown on the "Exploration Location Plan" attached as Sheet 1.

Based on our discussions with Cubellis Associates (project architect), we understand the buildings will be one-story, on-grade, wood-framed structures with wood siding. We understand spread footing foundation and on-grade floor slabs are proposed. We understand the floor slab will be for office use and building and slab loads are anticipated to be relatively light.

2.0 EXPLORATION AND TESTING

2.1 Exploration

Twenty-four test pits (TP-1 through TP-24) were made at the site on July 26, 2005 by Shaw Bros. Construction of Gorham, Maine. The approximate exploration locations are shown on the "Exploration Location Plan" attached as Sheet 1.

The test pit locations were selected by S.W.COLE ENGINEERING, INC. and were determined in the field based upon measurements from existing site features. Logs of the test pit explorations are attached as Sheets 2 through 13. A key to the notes and symbols used on the logs is attached as Sheet 14. The elevations shown on the logs were estimated based upon topographic information shown on Sheet 1.

2.2 Testing

Visual soil classification was conducted during the exploration program. The results of four soil moisture content tests are shown on the logs. The results of three soil gradation tests are presented on Sheets 15 through 17.



3.0 SITE AND SUBSURFACE CONDITIONS

3.1 Site Conditions

The approximate 6.8-acre site is located at 125 Presumpscot Street in Portland, Maine. We understand the site was once a railroad repair facility with a roundhouse, several outbuildings and railroad tracks. Based on the site plans provided, we understand the proposed buildings 1, 2 and 3 will be situated over the northeast, east and southeast portions of the site. Proposed Building 1 is situated in a relatively flat area occupied by an existing building and grassed landscape areas. Proposed Building 2 is situated in a gently sloping area occupied by overgrown railroad tracks and grassed areas. Proposed Building 3 is situated in a gently sloping grassed area.

3.2 face ns

Test pits TP-1 through TP-6 were made in the area of proposed Building 1. These test pits encountered 3 to 8 inches of topsoil overlying dark brown silty sand with gravel, bricks, wood, concrete and coal ash (fill) overlying brown gravelly sand overlying stiff gray silty clay or hard brown silty clay. Test pits TP-1 through TP-6 were terminated within the native silty clay soils at depths of 5 to 6.3 feet below existing ground surface.

Test pits TP-13 through TP-15 were made in the area of proposed Building 2. These test pits encountered 6 to 10 inches of topsoil or stone fill overlying dark brown silty sand with **gravel**, bricks, coal ash and coal clinker (fill) overlying reddish brown to light brown silty sand overlying hard brown silty clay. Test pits TP-13 through TP-15 were terminated at depths of 6.5 to 7.5 feet.

Test pits TP-18 through TP-24 were made in the area of proposed Building 3. These test pits encountered 0 to 12 inches of topsoil overlying brown to dark brown silty sand with coal, bricks and concrete overlying reddish brown silty sand with gravel and cobbles. Test pits TP-17 through TP-19 were terminated in the reddish brown silty sand stratum at depths of 6.8 to 8.1 feet below the ground surface. Test pits TP-20 through TP-22 and TP-24 were terminated on refusal surfaces interpreted to be shallow bedrock at depths of 2.5 to 6.0 feet below the ground surface. Test pit TP-23 was terminated on a relic concrete slab at a depth of 3.0 feet below the ground surface.



Test pits TP-7 through TP-12, TP-16 and TP-17 were made in areas of proposed buried utilities *or* other site improvements.

Refer to the attached test pit logs for more detailed descriptions of the subsurface findings at the test pit locations.

3.3 Groundwater Conditions

1 general, groundwater seepage was not observed within the depth explored. The soils at test it TP-16 an TP of 8 feet below ground 31 wet at a 31 surface. ctu 1it could of be determined do to the short extent of tin e explorations were left open. Groun will ictuate seasonall and in response to precipitation and snowmelt. The contractor the need for 1 antic dewatering excavations during construction.

3.4 Seismic and Frost Conditions

According to the 2003 International Building Code, we interpret the site soils beneath proposed Buildings I and 2 to correspond to a seismic Site Class E and beneath proposed Building 3 to correspond to a seismic Site Class D. The design-freezing index for the Portland, Maine area is about 1,250 Fahrenheit degree-days, which corresponds to a frost penetration on the order of **4.5** feet.

4.0 EVALUATION AND RECOMMENDATIONS

4.1 General Findings

Based on the subsurface findings and our understanding of the proposed construction, the proposed construction appears feasible from a geotechnical standpoint. The principal geotechnical considerations relative to building foundations are the presence of uncontrolled fills and moisture sensitive silty clays and silty sands beneath proposed Buildings 1 and 2, as well as relatively shallow bedrock beneath proposed Building 3. Based on our understanding of the proposed construction and the subsurface findings, we anticipate the footings for Buildings 1 and 2 will extend through the uncontrolled fills and be founded on stable deposits of silty sand or silty clay. Similarly, we anticipate the footings for Building 3 will extend through the uncontrolled fills and be founded on stable deposits of silty sand or on bedrock that has been blasted.



4.2 Site and Subgrade Preparation

An erosion control system should be instituted prior to construction activity at the site to help protect adjacent drainageways. We recommend that site preparation begin with the removal of topsoil, organics, roots, stumps, pavements and concrete from beneath building and paved areas. As much vegetation as possible should remain over inactive construction areas to help lessen the potential for erosion.'

Groundwater and wet soil conditions may be encountered during excavations. In our opinion, ditching with sump and pump dewatering techniques should be adequate to control groundwater for foundation construction. Groundwater should be controlled to at least 12 inches below subgrade. In any case, excavations must be properly shored and/or sloped in accordance with OSHA trenching regulations to prevent sloughing and caving of the sidewalls during construction.

4.2.1 Building Areas

We recommend footing subgrades be overexcavated by at least 1 foot or until stable native, undisturbed non-organic soils are exposed. Footing excavations for Buildings 1 and 2 should be made using a smooth-edged bucket to lessen subgrade disturbance. Excavation for Building 3 may be made using a toothed bucket following blasting for bedrock removal. The width of overexcavation should extend one foot away from the edge of footings for each foot of overexcavation depth. The overexcavated area should be backfilled with compacted structural fill. The I-foot layer of compacted Structural Fill will provide a working mat for foundation construction.

The uncontrolled fills under the building slabs should be proof-rolled and densified with a vibratory smooth drum roller weight at least IO-tons. Soft or yielding areas that develop during proof-rolling should be overexcavated and backfilled with compacted Structural Fill. Compacted Structural Fill should be used to raise grades beneath floor slabs in proposed building areas.

The bedrock encountered in Building 3 will require blasting for removal. Blasting should be performed by a qualified blasting company. An owner coordinated pre-blast survey should be performed on all structures, utilities and drinking water wells within 500 feet of



the proposed blast area. Blasting should be performed in such a manner as to control peak ground accelerations and airblast overpressures to tolerable levels. S.W.COLE ENGINEERING is available to assist in performing pre-blast surveys and to conduct monitoring during blasting activities to measure peak ground accelerations and airblast overpressures.

4.2.2 Utility Trench Subgrades

We anticipate that deeper utilities may be placed as part of the overall construction. If soft soils are encountered at the trench bottom, we recommend the soft soils be overexcavated by at least 18 inches and replaced with compacted crushed stone underlain by non-woven geotextile fabric, such as Mirafi 160N. Below manhole and vault structures, the overexcavation depth should be at least 24 inches if soft subgrades are encountered. We recommend the excavation in soft ground conditions be made with a smooth-edged bucket to lessen soil disturbance.

In areas of shallow bedrock, we recommend that bedrock be overblasted to allow at least 1 foot of bedding material between the bedrock surface and utility invert. In any case, we recommend that buried utilities be bedding with crushed stone or bedding sand as recommended by the pipe or conduit manufacturer.

4.3 Foundation Design

Considering thk subsurface findings and our understanding of the proposed construction, we recommend the following geotechnical parameters for design of shallow spread footings founded on properly prepared subgrades:

Design Frost Depth	4.5 feet
Net Allowable Soil Bearing Capacity	2.0 ksf
Post-Construction Settlement	1 inch or less
Base Friction Factor	0.40
Backfill Unit Weight (Structural Fill)	125 pcf
Passive Lateral Earth Pressure Coeff.	3.3



The design-freezing index for the Portland, Maine area is approximately 1,250 Fahrenheit degree-days, which corresponds to a frost penetration depth on the order of 4.5 feet. Foundations exposed to freezing must be covered with at least **4.5** feet of soil to provide frost protection.

According to the 2003 International Building Code, we interpret the site soils beneath proposed Buildings 1 and 2 to correspond to a seismic Site Class E and beneath proposed Building 3 to correspond to a seismic Site Class D. Wall footings should be at least 18 inches wide and column footings should be at least 24 inches wide.

4.4 Foundation Drainage

We recommend that a perimeter foundation underdrain system be installed near footing grade. 4-inch diameter perforated foundation drainpipe wrapped in a filter sock should be utilized. The foundation drainpipe should be enveloped in at least 12 inches of MDOT Standard Specification 703.22 Type B "Underdrain Sand". The foundation underdrains must have a positive gravity outlet protected from backwater and freezing conditions. Exterior foundation backfill should be sealed with a surficial layer of clayey or loamy soil in areas that are not paved or occupied by entrance slabs to reduce direct surface water infiltration into the backfill. Ideally, surface grades should be sloped away from the building for positive surface water drainage.

4.5 Slab-On-Grade Floors

Concrete slab-on-grade floors in heated spaces may be designed using a subgrade reaction modulus of 150 pci provided the slab is underlain by at least 12 inches of compacted Structural Fill overlying a properly prepared subgrade.

A 15-mil vapor retarder to limit the upward migration of moisture vapors should be placed beneath all floor slabs covered with moisture sensitive flooring. We recommend that control and construction joints be installed within floor slabs to accommodate shrinkage in the concrete as it cures and that the slabs be wet-cured for a period of at least 7 days after casting as a measure to reduce the potential for curling of the concrete and excessive drying/shrinkage. Following the wet cure period, we recommend consideration be given to using a curing compound to improve the quality of the completed floor. The curing compound, if used, must be compatible with the floor coverings to be used.



4.6 Backfill and Compaction

The existing uncontrolled fills and sandy site soils may be considered suitable for reuse as fill beneath paved areas provided they are approved for reuse in the VRAP plan being assembled for the site and provided any organics and wood are removed before reuse. The native clayey soils may be considered suitable for reuse in landscape areas. Structural Fill should be used to raise site grades within building footprints and as a base material below interior slabs and footings. Backfill placed adjacent to the foundation walls, directly below sidewalks, and entrance slabs should be Structural Fill meeting the gradation requirements as given below.

Sieve Size	Percent Finer by Weight
4 inch	100
3 inch	90 to 100
1/4 inch	25 to 90
No. 40	0 to 30
No. 200	0 to 5

Crushed stone used for pipe bedding and trench bottom stabilization should meet the requirements for MDOT Standard Specification 703.22 Type C "Underdrain Aggregate" as given below. A nominal sized uniformly graded ¾-inch washed crushed stone generally meets this gradation requirement.

Sieve Size	Percent Finer by Weight
1 inch	100
3/4 inch	90 to 100
3/8 inch	0 to 75
#4	0 to 25
#10	0 to 5

MDOT Standard Specification 703.22 Type B "Underdrain Sand" as given below.



Sieve Size	Percent Finer by Weight
1 inch	95 to 100
½ inch	75 to 100
#4	50 to 100
#20	15 to 80
#50	0 to 15
#200	0 to 5

Fill should be placed in horizontal lifts and compacted. Loose lift thickness should be generally limited to 6 to 12 inches such that the desired density is achieved throughout the lift thickness within 3 to 5 passes of the compaction equipment.

We recommend that fill placed below footings, slabs, sidewalks and pavement be compacted to at least 95 percent of its maximum dry density as determined by ASTM D-1557. Backfill placed against retaining walls should be compacted to between 92 to 95 percent of ASTM D-1557 to avoid overstressing the wall. Crushed stone should be compacted to 100 percent of its dry rodded unit weight per ASTM C-29.

4.7 Entrance Slabs

Entrance slabs should be designed to reduce the effects of differential frost action. We recommend excavation beneath entrance slabs continue to **4.5** feet below finish grade. The 4.5-foot depth should extend outward from the building to the full width of the entrance slab. The Structural Fill should transition up to any adjacent sidewalk or pavement sub-base at a 3H:1V slope or flatter. Adjacent paved and grassed areas should be sloped to promote drainage away from the building periphery.

4.8 MSE Walls

Considering the subsurface findings and the proposed grades, we anticipate the proposed MSE Wall south of Building 3 will like consist of a rock cut with 2 to 3 feet of overburden and the proposed MSE Wall west of Building 3 will consist of a rock cut with 2 to 3 of overburden transitioning to a soil cut. Consequently, we recommend planning



and design consider construction of a 0.5H:1V pre-split blasted rock cut with a 2H:1V soil slope above the rock cut and in areas of all soil cut.

Alternatively, the bedrock could be blasted and removed for construction of a conventional MSE wall. For MSE Walls founded on at least 6 inches of ¾-inch crushed stone over stable native non-organic subgrades, we recommend the following geotechnical parameters for design:

- Net Allowable Bearing Pressure = 2.0 ksf or less
- Foundation Soil Internal Friction Angle = 30 degrees
- ReinforcedZone Backfill Unit Weight = 125 pcf (Structural Fill)
- Reinforced Zone Internal Friction Angle = 32 degrees (Structural Fill)
- Retained Soil Unit Weight = 140 pcf (Granular and Rock Borrow)
- Retained Soil Internal Friction Angle = 32 degrees (Granular and Rock Borrow)

We understand that MSE Wall design will likely be completed by the MSE Wall Manufacturer including analyses of bearing capacity, overturning and internal stability of the wall. We recommend a minimum geo-grid length of 70 percent of the wall height for design consideration.

Alternatively, the retaining wall could be incorporated into the exterior wall of Building 3. In this case, the wall would likely be constructed of cast-in-place reinforced concrete and would be restrained from rotation requiring an at-rest lateral earth pressure of 0.5 for design. For this case, we recommend the wall be waterproofed and insulated and that a drainage swale be constructed to divert surface runoff away from the building.

4.9 Weather Considerations

If foundation construction takes place during cold weather, subgrades, foundations, and floor slabs must be protected during freezing conditions. Fill below structures, as well as concrete, must not be placed on frozen soil and once placed the soil and concrete must be protected from freezing. Further, the native soils are moisture sensitive, and as such subgrades will be susceptible to disturbance during wet conditions. Consequently,



sitework and construction activities should take appropriate measures to protect exposed subgrades, particularly during wet *or* freezing conditions.

4.10 Design Review and Construction Testing

S. W. COLE ENGINEERING, INC. should be retained to review the final design and specifications to determine that our earthwork and foundation recommendations have been properly interpreted and implemented.

During construction, S. W. COLE ENGINEERING, INC. should observe subgrade soils prior to fill or concrete placement to allow design changes in the event that subsurface conditions are found to differ from those anticipated prior to the start of construction. A construction materials testing program should be implemented to observe compliance with the plans, specifications, and design concepts. S. W. COLE ENGINEERING, INC. is available to provide field and laboratory testing of soil, concrete, masonry, steel and asphalt construction materials.

5.0 CLOSURE

It has been a pleasure to be of assistance to you with this phase of your project. If you have any questions, please do not hesitate to contact us.

Sincerely,

S. W. COLE ENGINEERING, INC.

Timothy J. Boyce, P.E. Senior Geotechnical Engineer

TJB:tjb/pfb

F\Projects\2005\05-0357_S_Ade Prop Mgmt_Portland_Roundhouse Property Expansion_TJB\05-0357 Report.doc

ATTACHMENT A

Limitations

This report has been prepared for the exclusive use of Ade Property Management for specific application to the Proposed Buildings 1, 2 and 3 at 125 Presumpscot Street in Portland, Maine. S. W. COLE ENGINEERING, INC. has endeavored to conduct the work in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made.

The soil profiles described in the report are intended to convey general trends in subsurface conditions. The boundaries between strata are approximate and are based upon interpretation of exploration data and samples.

The analyses performed during this investigation and preliminary recommendations presented in this report are based in part upon the data obtained from subsurface explorations made at the site. Variations in subsurface conditions may occur between explorations and may not become evident until construction. If variations in subsurface conditions become evident after submission of this report, it will be necessary to evaluate their nature and to review the recommendations of this report.

Observations have been made during exploration work to assess site groundwater levels. Fluctuations in water levels will occur due to variations in rainfall, temperature, and other factors.

S. W. COLE ENGINEERING, INC.'s scope of work has not included the investigation, detection, or prevention of any Biological Pollutants at the project site or in any existing or proposed structure at the site. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms.

Recommendations contained in this report are based substantially upon information provided by others regarding the proposed project. In the event that any changes are made in the design, nature, or location of the proposed project, S. W. COLE ENGINEERING, INC. should review such changes as they relate to analyses associated with this report. Recommendations contained in this report shall not be considered valid unless S. W. COLE ENGINEERING, INC. reviews the changes.





PROJECT/CLIENT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT

 LOCATION:
 125 PRESUMPSCOT STREET, PORTLAND, MAINE
 PROJECT NO 05-0357 & 05-0357.1

					TEST PIT_	TP-1					
<u> </u>		DATE:	7/26/05	SURFACE	ELEVATION: _	29 +/-	L	OCATION:	SEE S	HEET 1	
SAN	/PLE	DEPTH	1026 FILE S	STRATUM	DESCRIPTIO	N terrora #5		#TEST RES			
NO.	DEPTH	(FT)	April 1				9 - 1 m 2 m 2 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m 3	7 (4. P.)		RESUL	S (PPM)
		3"		TC	PSOIL					<u> </u>	
S-1	1.5'	2.0'	DARK BR	OWN SILTY SAND	WITH BRICKS	AND WOOD	(FILL)				ND
S-2	3.1'	3.2'		BROWN GI	RAVELLY SAND)					ND
<u> </u>				_	SILTY CLAY						
S-3	5.0'	5.2 "									ND
				BOTTOM OF EXPL	ORATIONAT 5	.2 FEET					
	COMPLETION DEPTH: 5.2 FEET DEPTH TO WATER: NO FREE WATER ENCOUNTERED.										

				TES	ST PIT	ГР-2		_		
		DATE:	7/26/05	SURFACE ELEV	ATION:2	29' +/	LOCATION: _	SEE \$	HEET 1	ļ
SAN	IPLE	DEPTH		्रि वर् ग्रह्मग्री(#ब)=स्र	लसाञ्च ा		ात≠अं⊭स≠	ani ik	200	1 5 €31
NO.	DEPTH				er) and the Line of the last		i i i i i i i i i i i i i i i i i i i	RESULT	S (PPM)	
	 	4"		TOPSOI	<u>lĿ</u>		=			
S-1	1.5'	2.1'	DARK BROV	VN SILTY SAND WITH C	COBBLES AN	ID BRICKS (FILL)				ND
S-2	2.51			BROWN GRAVE	LLYSAND					
3-4	3.5'	4.1'					w = 9.	3%		ND
s-3	5.5'	GRAY SILTY CLAY								ND .
ļ		6.3'								
		BOTTOM OF EXPLORATIONAT 6.3 FEET				FEET				4:5 4:5 4:44 4:44
	COMPLETION DEPTH: 6.3 FEET DEPTH TO WATER: NO FREE WATER ENCOUNTERED									





PROJECT/CLIFNT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT LOCATION: 125 PRESUMPSCOTSTREET, PORTLAND, MAINE

PROJECTNO. 05-0357 & 05-0357.1

	TEST PIT TP-3								
		DATE.	7/26/05	SURFACE ELEV	ATION.		OCATION _	SEE SI	HEET 1
SAMPLE		DEPTH	terminal dis	STRATUM DESC	RIPTION		TEST RES		PIDITEST
NO.	DEPTH	(FT) 8"				ੑਸ਼ਫ਼ਫ਼ਸ਼ਸ਼ੑਫ਼ੑੑੑੑੑੑੑੑੑੑੑੑਫ਼ਫ਼ਲ਼ੑੑੑੑੑੑਲ਼ਫ਼ਲ਼ੑੑੑੑਲ਼ਫ਼ਲ਼ੑੑੑਲ਼			
S-1	2.0'	2.3'	DARK BRO	WN SILTY SAND TRACE (GRAVEL WITH BRIC	KS (FILL)			ND -
S-1 S-2	3.0'	3.1'		BROWN GRAVEL	LY SAND		w = 5.1	%	ND
S-3	5.0'	5.1'		GRAY SILTY	CLAY				ND
				BOTTOMOF EXPLORAT	ΓΙΟΝ ΑΤ 5.1 FEET				
									- 1 3
					_				-
	COMPLETION DEPTH; 5.1 FEET DEPTH TO WATER: NO FREE WATER ENCOUNTERED								

				TE	ESTPIT	TP-4					
		DATE:	7/26/05	SURFACE ELE	VATION:	30' +/-	L	OCATION:	SEE SI	HEET 1	
SAM	1PLE	DEPTH		อย่างรับเหย่	इल्रिसाम्बर्ध	Žt.		ा≢अहारा≓8		្រៀម៉ូរ៉ូរ	
NO.	DEPTH	(FT)								RESULTS	S(PPM)
		8"		TOPS	OIL	·····					
S-1	2.0'		s	DARK BROWN GRAVEL WITH SOME CO							ND
		3.4'									
S-2	4.5'			BROWN GRAV	ELLY SAND)					ND
S-3	5.0'	4.9' 6.0'		GRAY SILT	-						ND -
				BOITOM OF EXPLORA	ATION AT 6	.0 FEET					
<u> </u>	ÇQ	DMPLETI	ON DEPTH:	6.Q FEET		DEPTH T	O WATER:	NO FRE	E WATER	R ENCOUNTE	R <u>E</u> D



PROJECT/CLIENT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT

LOCATION: 125 PRESUMPSCOT STREET, PORTLAND. MAINE PROJECT NO 05-0357 & 05-0357.1

				TES	T PIT_	TP-5				_	
İ		DATE:	7/26/05	SURFACE ELEV	ATION: _	30' +/-	L	OCATION:	SEE SI	HEET 1	
SAN	/PLE	DEPTH		STRATUM DESC	RIPTION		No.	*TEST RES	ULTS 🖟	PID:	IEST A
NO.	DEPTH	(FT)		<u> </u>						RESUL	rs (PPM) 🦂
		6"		TOPSOIL	-						
S-1	1.5'			DARK BROWN SILTY G	RAVELLY	SAND			:		ND
S-2	2.2'	1.9'		WITH COAL ASI							ND
		2.4	RUS	T STAINED BROWN SILTY	SAND TR	ACE GRAV	EL				
S-3	3.5'			GRAY SILTY	-						ND
<u> </u>		5.0'									
				BOTTOM OF EXPLORAT	FIONAT 5.0) FEET					
	C	OMPLET	ION DEPTH: _	5.0 FEET		DEPTHT	O WATER:	NO FRE	EE WATE	ENCOUNT	ERED_

				TE	STPIT_	TP-6					
Ī		DATE:	7/26/05	SURFACE ELE\	/ATION:	30' +/-	L	OCATION: _	SEE S	HEET 1	
SAN	IPLE	DEPTH		Survey Human = S	(લેક્સિટોફોઉ) રે			ां±आत्स≢	अग्राथिह	[A]B:	
NO.	DEPTH	(FT)		The state of the s		1				RESUL	IS (BRM)
<u> </u>		8"		TOPSO	IL.						· .
S-1	2.5'		1	DARK BROWN SILTY SAI TH BRICKS, CONCRETE.	_	_					ND
<u> </u>		3.6'									
S-2	5.5'			BROWN SILT	-						ND
	0.0	6.0'		······································							ND
				BOTTOM OF EXPLORA	TIONAT 6.0) FEET					
	CC	OMPLETI	ON DEPTH: _	6.0 FEET		DEPTH TO	WATER:	NO FR	EE WATE	R ENCOUNT	ERED





LOCATION: 125 PRESUMPSCOT STREET, PORTLAND. MAINE

PROJECTNO. **05-0357** 05-0357

					TEST PIT	TP-7					
		DATE:	7/26/05	SURFACE I	ELEVATION:_	31' +/-		OCATION:	SEE SI	HEET 1	
SAN	MPLE	DEPTH		** STRATUM	DESCRIPTIO	N Section 1	AS THE RE	TEST RES	ULTS	PIDIT	EST :
NO.	DEPTH	(FT)					T. West			翼RESULT:	S (PPM)
-		5"	<u> </u>	10	PSOIL						
S-1	1.5'			ARK BROWN SILT	SAND TRACE	GRAVEL					ND
<u> </u>		2.3'		WITH CO.	AL ASH (FILL)						
S-2	3.0'							w = 18.9	1%		ND
				_	SILTY CLAY						
				- +	HARD =						
	 	5.5									
				BOTTOM OF EXPL	ORATIONAT 5	.5 FEET					
<u> </u>											
]	
		NADI ET	IONDEDTIL			DEDTU	TO WATER	NO FOR		D ENGOLINE	.DEB
J	CC	JMPLE I	IONDEPTH:	5.5 FEET	_	DEPTH	TO WATER:	NO FRE	EVVAIE	R ENCOUNTE	:KED

				TEST P	ITTP-8			
ſ		DATE:	7/26/05	SURFACE ELEVATION	N:30' +/-	LOCATION:	SEE SHEET 1	
SAN	MPLE	DEPTH		्रवर ्षका\ म्बद्धार	101	ग्रह्मासह	usis	(ES)(
NO.	DEPTH	(FT)		And the second s			्र सम्ब्र्ण्य	S(PPM)
ļ		3"		TOPSOIL				
S-1	1.5'		4, 1	BROWN GRAVEL SOME SA	ND (FILL)			ND
	2.5	2.1'						ND
S-2	2.5'	3.0'		BROWN SILTY CLAY	HARD =	İ		ND
				BOTTOM OF EXPLORATION A	AT 3.0 FFFT			
				BOTTOMOT EXCEPTION	0.0 1 221		İ	
	-							
 								
								, mark
Ī								,
-						i		
	<u> </u>			·			<u> </u>	
l	C	OMPLET	ON DEPTH:_	3.0 FEET	DEPTH TO WATER	R: NO FRE	E WATER ENCOUNT	ERED ~



PROJECT/CLIENT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT PROJECT NO 05-0357 & LOCATION: 125 PRESUMPSCOT STREET, PORTLAND, MAINE 05-0357.1 TP-9 TEST PIT_ SURFACE ELEVATION: 7/26/05 28' +/-LOCATION: SEES LET 1 DATE: TEST/RESULTS PID TEST RESULTS (RPM) SAMPLE **★ STRATUM DESCRIPTION** DEPTH (FT) NO. DEPTH BITUMINOUS ASPHALT PAVEMENT 5" ND S-1 1.5' BROWN GRAVEL AND SAND WITH COBBLES (FILL) ND S-2 3.5 4.1' REFUSALAT 4.1 FEET (PROBABLE RELIC CONCRETE SLAB) 4.1 FEET **DEPTHTO WATER:** NO FREE WATER ENCOUNTERED COMPLETION DEPTH: TEST PIT TP-10 DATE: 7/26/05 SURFACE ELEVATION: 29' +/-LOCATION: SEE SHEET 1 THE STATES OF THE (P)(D)(TEST SAMPLE ्रवतः १८५१ (॥ **० ३५०)** साञ्चल (॥ १५५०) १० DEPTH (FT) RESULTS (PPM) NO. DEPTH 5" BITUMINOUS ASPHALT PAVEMENT S-1 ND 1.0' BROWN GRAVEL AND SAND WITH COBBLES (FILL) S-2 2.8' 2.8 ND REFUSAL AT 2.8 FEET (PROBABLE RELIC CONCRETE \$LAB) COMPLETION DEPTH: **2.0** FEET **DEPTHTO WATER:** NO EREE WATER ENCOUNTERED





LOCATION: 125 PRESUMPSCOTSTREET, PORTLAND, MAINE

PROJECT NO 05-0357 & 05-0357.1

		DATE:			TEST PIT ELEVATION:	31' +/-		OCATION:			
	APLE	DEPTH		STRATUM	DESCRIPTION	N HAGE		TEST RE	SULTS	RESULTS	EST IN INC.
NO.	DEPTH	(FT) 6"		T	OPSOIL			y y and a second	THE PERSON	WANTE COLL	2.40.2.45 (1.17.55)
S-1	1.0'			DARK BROWN SIL	TY SAND TRAC						ND
		1.9'		WITH CO	DAL ASH (FILL)						
S-2	3.5'				N SILTY CLAY HARD ~						ND
		4.5				. ,					·
				BOTTOM OF EXF	PLORATION AT	4.5 FEET					
	С	OMPLET	TION DEPTH:	4.5 FEET		DEPTHT(O WATER:	NO F	REEWATE	R ENCOUNTE	RED

				TEST	PIT _	TP-12					
ļ		DATE:	7/26/05	SURFACE ELEVAT	ION:	33' +/-	L	OCATION:			1 * 70000 10117
SAI	MPLE	DEPTH		इम्लाक्ष्मात्रक इस्ट	[F1][O	V.		ा/=१३१ ।स=६	ម្រាស់	्राधिक सन्	3
NO.	DEPTH	(FT)				<u> </u>				RESULTS	(BBW)
		6"		TOPSOIL							
S-1	1.5'	1.0' 1.6'	DARK BD	BROWN SAND TRACE G DWN SILTY SAND WITH BRIC			/EILL\				ND
3-1	1.5	1.0	DARK BRO	DWINGILLY GAIND WITH BRIC	JNSAI	ND COALASH	(FILL)		ĺ		
S-2	2.5'			BROWN SILTY C - HARD ~	LAY						ND
		4.0'									
		<u> </u> 		BOITOM OF EXPLORATION	NAT 4	l.0 FEET					
		OMPLET	ION DEPTH:	4.0 FEET		DEPTHTO	WATER:	NO FR	EEWATER	RENCOUNTER	RED
1	Ŭ	J LL 1					•				



LOCATION: 125 PRESUMPSCOTSTREET, PORTLAND. MAINE

PROJECT NO. 05-0357 & 05-0357.1

				TEST	PITT	P-13					
		DATE:	7/26/05	SURFACE ELEVATION	ON:	30' +/-		OCATION:	SEE SI		
SAN	/PLE	DEPTH		STRATUM DESCRI	PTION		ATT TOTAL	TEST RES			
NO.	DEPTH	(FT)				阿加克 里			THISTO	總RESU	TS (PPM)
		10"		TOPSOIL		•					
S-1	1.5'			DARK BROWN SILTY SAND T WITH BRICKS AND COAL							ND
		3.0'									ND
S-2	3.55										ND
				REDDISH-BROWN SILTY SAND - DENSE ~	TRACE	GRAVEL					
	+	7.5'									
				BOTTOM OF EXPLORATION	N AT 7.5	FEET					
		OMPLET	ION DEPTH:	7.5 FEET		DEPTHT	O WATER:	NO FR.	EEWATE	R ENCOUN	NTERED

				TE	ST PIT_	TP-14_			
		DATE:	7/26/05	SURFACE ELE	VATION:_	31' +/-	LOCATION:	SEE SHEET	
SAN	/PLE	DEPTH		SARVATUMINE S	रक्षराध्यां (०)।		ाडिशास		াম[⊛াব≨জ
NO.	DEPTH	(FT)						e Re	Suns(Pam)
		6"		TOPS	OIL		4		ND
		1.9'	اد	DARK BROWN SILTY SA WITH BRICKSAND			w = 9.3))	ND ND
				REDDISHBROWI		ID	w = 9.3	200	·
s-3	5.0'					,			. ND
		5,9'		BROWN SIL	TVCLAV		-	ľ	
		6.5 ¹		BROWN SIL					
				BOTOM OF EXPLOR	ATIONAT 6.	5 FEET			
									€
	Ç.	OMPLET!	ON DEPTH:	6.5 FEET		DEPTHTO WATER	: NO FRE	EE WATER ENC	OUNTERED





LOCATION 125 PRESUMPSCOT STREET, PORTLAND, MAINE

PROJECT NO 05-0357 & 05-0357.1

Г				TEST PIT	TP-15			
ĺ		DATE:	7/26/05	SURFACE ELEVATION	32' +/-	LOCATIO		HEET 1
SAM		DEPTH		STRATUM DESCRIPTI	ON	JES		RESULTS (PPM)
NO.	DEPTH	(FT) 8"		STONE FILL				-
S-1	1.5'		L	BROWN SAND				ND
			WIT⊦	COAL ASH, COAL CLINKER AN	D BRICKS (FILL)			
S-2	3.5'							ND
		5.0'						
S-3	6.0'		_	IGHT BROWN SILTY FINE TO ME	EDIUM SAND			ND
		7.5'						
				BOTTOM OF EXPLORATION	AT 7.5'			
			L					
	C	OMPLET	ION DEPTH:	7.5 FEET	DEPTHTO V	VATER: N	O FREE WATE	R ENCOUNTERED 2.

					EST PIT_	TP-16					
		DATE:	7/26/05	SURFACE ELE	VATION:_	30' +/-	LC	CATION:_	SEE SI		
SAM	1PLE	DEPTH		Sint State (Vide)	द्भागाः मा			ाइक्षाःसङ			
NO.	DEPTH	(FT)								ારા=લગા	SICEM
S-1	1.0'	8" 1.1'	DARK BROV	TOPS WN SILTY SAND TRACE		TH COAL ASI	H (FILL)				ND
S-2	4.5'	1.1	•	OWN SILTY SAND SOME							ND
		7.2'									ND
S-3	7.5'	8.0'		LIGHT BROWN SI	LTY FINE SA	AND					IND .
				BOITOM OF EXPLOR	ATIONAT 8	.0 FEET					
	Ç	OMPLET	IQNDEPTH:	8.0 FEET		DEPTHTO	WATER:		SOILS WE	TAT a FEET	





PROJECT/CLIENT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT LOCATION: 125 PRESUMPSCOTSTREET, PORTLAND, MAINE

PROJECT NO, **05-0357** & 05-0357.1

				TE	ST PIT_	TP-17					
		DATE:	7/26/05	SURFACE ELE	/ATION: _	29' +/-		LOCATION: _			
SAM		DEPTH	THE TAX	STRATUM DES	CRIPTIO	VI SERVE		TEST RE			
NO.	DEPTH	(FT)						至7年四十四		※ RESUL	TS (PPM)
		4"		TOPSC)IL						
S-1	1.5'		D	ARK BROWN SILTY SA	ND TRACE	GRAVEL					ND
		2.1'		WITH COAL A	SH (FILL)				•		
S-2	3.0'										ND
3-2	J.0										
			REDDISHE	ROWN SILTY SAND SO	ME GRAV	ELWITH CO	DBBLES				
S-3	5.5'										ND
										i	. 177
		8.1']			
				BOTTOM OF EXPLORA	8 TANOIT	.1 FEET					
								l		L	
	CC	OMPLETI	ON DEPTH:	8.1 FEET		DEPTHT	O WATER:	SOILS	APPEARED	WET AT 8	3.0 FEET

				TES	ST PIT <u>TP-18</u>					
		DATE:	7/26/05	SURFACE ELEV	ATION: 30' +/-	L	OCATION:	SEE SH	HEET 1	
SAN	/PLE	DEPTH		Start team to include Start to the start to	লংগাস্থা©াং		ांडिओहीस	8048		
NO.	DEPTH	(FT)			للقافلة للبطة عامينا مينان الدارات والمتعارة والمتارات والأراس وال				RESUL	S(PPM)
		6"		TOPSOII						
				BROWN SILTY SAND S WITH BRICKS, METAL AN						
S-1	2.0'	2.1'		WITH BRICKS, METALAN	ID COBBLES (FILL)					ND
S-2	3.5'		\//	DARK BROWN SILTY SAN ITH BRICKS, COAL ASH AND		,				ND.,
3-2	3.5	4.0'	VVI	ITTI BRICKS, COAL ASTI ANL	O COAL CLINKER (FILL	-)				ND.,
			REDDI	SH BROWN SILTY SAND SO	ME GRAVELAND COB	BLES				
S-3	6.0'									ND
		7.0'								
				BOTTOM OF EXPLORAT	ΓΙΟΝΑΤ 7.0 FEET					
	CC	OMPLETI	ON DEPTH:	7:0 FEET	DEPTHTC) WATER:	NO FF	REE WATER	R ENCOUNT	ERED





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				TE	ST PIT_	TP-19_				
		DATE:	7/26/05	SURFACE ELE	VATION:	32' +/-	LOCATIO	N:s	EE SHEET 1	
SAN	/PLE	DEPTH		STRATUM DES	CRIPTION	E MAR			S H LEEF	
NO.	DEPTH	(FT)				A CHARLEST CONTRACTOR	A CALL	(F)(#3-181"	. ∰ SERES	ULTS (PPM)
S-1	0.5'	3"		TOPSO						ND
<u> </u>	L	8"		LIGHT BROWN SAND S	OME GRAVE	L (FILL)				
				DARK BROWN SILTY SA						ND
S-2	2.5'			WITH COAL ASH, BRICK	KS AND WOO	DD (FILL)				ND
-	<u> </u>									
		4.8'								ND
s-3	5.5'		REDDISH	BROWN SILTY SAND SO		L WITH COBBLES	3			ND
		6.8							İ	
			l	BOITOM OF EXPLORA	ATIONAT 6.8	FEET				
<u> </u>										
	COMPLETION DEPTH: 6.8 FEET DEPTHTO WATER: NO FREE WATER ENCOUNTERED									
[,									

				TEST PIT_	TP-20			
		DATE:	7/26/05	SURFACE ELEVATION:	33' +/-	LOCATION:	SEE SHEE	<u>T 1</u>
SAN	/PLE	DEPTH		સ્ત્રામાં માટે કેલ માટે માટે માટે માટે માટે માટે માટે માટે	10	ा ।		ાગાગામજી - જ
NO.	DEPTH	(FT)						(૯૭૫૦૬ (છેવા)):
<u> </u>	-	4.0		BROWN SAND AND GRAVEL (FILL)			
S-1	1.5'	1.0'	! !					ND
				DARK BROWN SILTY SAND SOME	GRAVEL			
S-2	3.0		WITH	COBBLES, BRICKS, METAL AND C	OAL ASH (FILL)	ŀ		ND
3-2	3.0					ł		ND .
		4.3'						
ļ	ļ							
 			REDDISH	BROWN SILTY SAND SOME GRAV	/EL AND COBBLES			
S-3	6.0'							ND
<u> </u>	-	6.5						
	-			REFUSALAT 6.5 FEET			,	
				(PROBABLE BEDROCK)				
ļ								
			<u> </u>					
	C	OMPLET	ION DEPTH:	6.5 FEET	DEPTHTO WATI	ER: NO FRI	EE WATER EN	COUNTERED

NO FREE WATER ENCOUNTERED



PROJECT/CLIENT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT-LOCATION: 125 PRESUMPSCOTSTREET, PORTLAND. MAINE

3.0 FEET

COMPLETION DEPTH:

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											05 0557.1
					TEST PIT	TP-21					
1		DATE:	7/26/05	SURFAC	E ELEVATION:	36' +/-	l	OCATION:	SEE §		
	IPLE	DEPTH		STRATU	MIDESCRIPTION	N Francisco	Mark 1	TEST RES			
NO.	DEPTH	(FT)				新年基本的	SPERS W	JANES & SERE	30 E - 2	製造KESUL	TS (PPM)
		5"			TOPSOIL						
S-1	1.0'			DARK BROWN S	ILTY SAND SOME	GRAVEL			1		ND
				WITH COBBLE	SAND COAL AS	H (FILL)					~
		1.8'	İ								
S-2	2.5'		REDDISH	BROWN SILTY S	AND SOME GRA	VEL AND COE	BLES				ND
		3.0'	ĺ		DENSE ~			1			
-				REFUS	SAL AT 3.0 FEET						
				(PROB.	ABLE BEDROCK)						
								1			
			1								
			1					}			
	<u> </u>		1								
—]					Į.			
	1		1								
	+		1					I		1	

DEPTH TO WATER:

				TEST PIT	TP-22			9
		DATE:	7/26/05	SURFACE ELEVATION	34' +/-	LOCATION:	SEE SHEET 1	
SAN	APLE.	DEPTH		জনমের্থা <u>শ্রমণ্</u> রমান্তর	e)Ni	ा इन्हर्भ । सम्ब		યાગત≠છા
NO.	DEPTH	(FT)			and the second section of the second section is the second section of the second section of the second section of the second section s		17(5)	julies (PPM)
	<u> </u>	5"		TOPSOIL		_	:	
S-1	1.5'		l W	DARK BROWN SILTY SAND SOM /ITH BRICKS, COALASH, METALAN	-			ND
		2.9'						
		2.5				7		
s-2	4.0'		REDDIS	SHBROWN SILTY SAND SOME GRA	VELWITH COBBLES			ND
		4.5'				_		
				REFUSALAT 4.5 FEET				
				(PROBABLE BEDROCK				
<u> </u>								
								* **
	C	OMPLETI	ON DEPTH:	4.5 FEET	DEPTH TO WATER	R: NO FRE	EWATER ENCO	UNTERED



PROJECT/CLIENT: PROPOSED ROUNDHOUSE PROPERTY EXPANSION / ADE PROPERTY MANAGEMENT LOCATION: 125 PRESUMPSCOT STREET, PORTLAND. MAINE

PROJECTNO. 05-0357 & 05-0357 1

				TEST PIT	TP-23			
		DATE:	7126105	SURFACE ELEVATION:		ATIOI	SEE SI	
SAN NO.	1PLE DEPTH	DEPTH (FT)		STRATUM DESCRIPTIO	N .			# PIDITEST # RESULTS (PPM)
140,	DE:	8"		TOPSOIL				SEALLOOP RESILIENT PROPERTY PROPERTY AND ADDRESS OF THE PR
				BROWN SILTY SAND SOME GR	RAVFI	1		
S-1	2.0'			WITH COBBLES, WOOD AND WOOD				ND
		3.0'					·	
				REFUSALAT 3.0 FEET (PROBABLE RELIC CONCRETE	CLAD)			
				(PRUDABLE RELIGIONORETE	: SLAD)			
		:						
	C	OMPLET	ION DEPTH:	3.0 FEET	DEPTHTO WATER	: <u>NO F</u>	REEWATER	R ENCOUNTERED
				TEST PIT	TP-24			
		DATE:	7/26/05	TEST PIT SURFACE ELEVATION:		LOCATION:	SEE S	HEET 1
SAM	1PLE	DEPTH	7/26/05	-	38' +/-			(घ)० वि≅्ष
SAN NO.	1PLE DEPTH		7/26/05	SURFACE ELEVATION: इक्स्ट्रेसम्प्रसम्बद्धाः	38' +/-			
NO.	DEPTH	DEPTH		SURFACE ELEVATION:	38' +/-			(2)() (359) RESULIES (22M)
		DEPTH (FT)		SURFACE ELEVATION: इत्रेहरू प्रत्योगमण्डि स्ट्रान्त्रेहर्क TOPSOIL	38' +/-			(घ)० वि≅्ष
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STREAM DESCRIPTION TOPSOIL SH BROWN SILTY SAND SOME GRAV	38' +/-			(2)() (359) RESULIES (22M)
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STRANGE ELEVATION: TOPSOIL SH BROWN SILTY SAND SOME GRAV DENSE T REFUSALAT 2.5 FEET	38' +/- JN: /ELWITH COBBLES			(2)() (359) RESULIES (22M)
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STREAM DESCRIPTION TOPSOIL SH BROWN SILTY SAND SOME GRAV	38' +/- JN: /ELWITH COBBLES			(2)() (359) RESULIES (22M)
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STRANGE ELEVATION: TOPSOIL SH BROWN SILTY SAND SOME GRAV DENSE T REFUSALAT 2.5 FEET	38' +/- JN: /ELWITH COBBLES			(2)() (359) RESULIES (22M)
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STRANGE ELEVATION: TOPSOIL SH BROWN SILTY SAND SOME GRAV DENSE T REFUSALAT 2.5 FEET	38' +/- JN: /ELWITH COBBLES			(2)() (359) RESULIES (22M)
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STRANGE ELEVATION: TOPSOIL SH BROWN SILTY SAND SOME GRAV DENSE T REFUSALAT 2.5 FEET	38' +/- JN: /ELWITH COBBLES			(2)() (359) RESULIES (22M)
NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STRANGE ELEVATION: TOPSOIL SH BROWN SILTY SAND SOME GRAV DENSE T REFUSALAT 2.5 FEET	38' +/- JN: /ELWITH COBBLES			(2)() (359) RESULIES (22M)
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NO.	DEPTH	DEPTH (FT)		SURFACE ELEVATION: STRANGE ELEVATION: TOPSOIL SH BROWN SILTY SAND SOME GRAV DENSE T REFUSALAT 2.5 FEET	38' +/- JN: /ELWITH COBBLES			(2)) (359) (359)(465(23 <u>4))</u>)



KEY TO THE NOTES & SYMBOLS Test Boring and Test Pit Explorations

All stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Key to Symbols Used:

w - water content, percent (dry weight basis)

qu - unconfined compressive strength, kips/sq. ft. - based on laboratory unconfined

compressive test

S_v - field vane shear strength, kips/sq. ft.
 L_v - lab vane shear strength, kips/sq. ft.

q_o - unconfined compressive strength, kips/sq. ft. based on pocket

penetrometertest

organic content, percent (dry weight basis)

W_L - liquid limit - Atterberg test
 W_P - plastic limit - Atterberg test
 WOH - advance by weight of hammer
 WOM - advance by weight of man
 WOR - advance by weight of rods

HYD - advance by force of hydraulic piston on drill

RQD - Rock Quality Designator - an index of the quality of a rock mass. RQD is

computed from recovered core samples.

γτ - total soil weightγ_B - buoyant soil weight

Description of Proportions:

0 to 5% TRACE 5 to 12% SOME 12 to 35% "Y" 35+% AND

REFUSAL: Test Boring Explorations - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

REFUSAL: Test Pit Explorations - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.



Report of Gradation

ASTM C-117 & C-136

Project Name PORTLAND - ROUNDHOUSE PROPERTY EXPANSION -

GEOTECHNICAL ENGINEERING SERVICES

Client ABE PROPERTY MANAGEMENT

Exploration TP-3 S-2

Material Source 3.0'

Project Number 05-0357

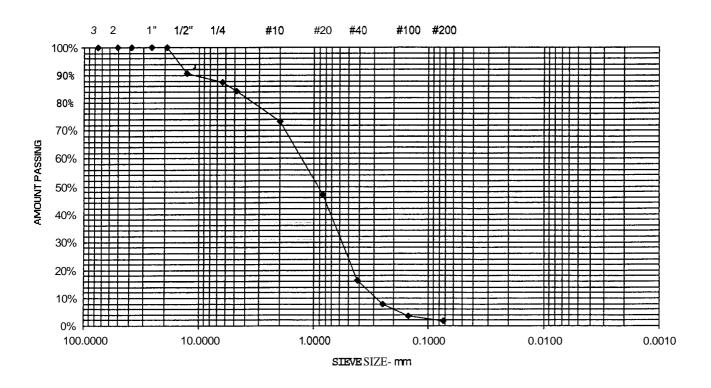
Lab **ID** 3807G

Date Received 7/28/2005

Date Complete 7/29/2005

Tested By COLIN PATTERSON

STANDARD DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)
150 rnrn	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 rnrn	3"	100	
50 rnm	2''	100	
38.1 mm	1-1 <i>1</i> 2"	100	
25.0 mm	1"	100	
19.0 mm	314"	100	
12.5 mm	1/2"	91	
6.3 rnrn	1/4"	88	
4.75 mm	No. 4	84	15.5% Gravel
2.00 rnm	No. 10	73	
850 um	No. 20	47	
425 urn	No. 40	16	82.7% Sand
250 urn	No. 60	8	
150 urn	No. 100	3	
75 um	No. 200	1 8	1.8% Fines





Report of Gradation

ASTM C-117 & C-136

Project Name PORTLAND - ROUNDHOUSE PROPERTY EXPANSION -

GEOTECHNICAL ENGINEERING SERVICES

Client ABE PROPERTY MANAGEMENT

Exploration TP-13 S-2

Material Source 3.5'

Project Number 05-0357 --

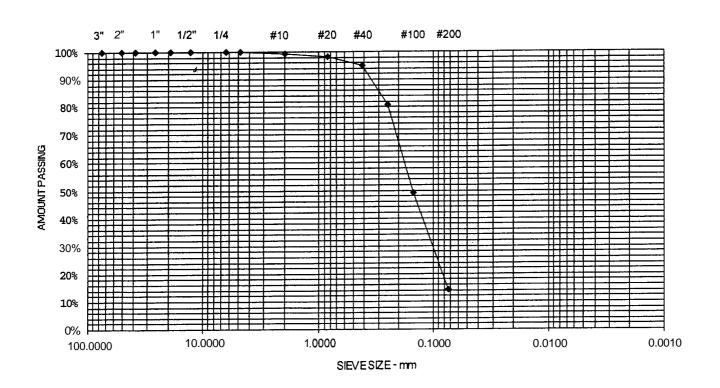
Lab ID 3809G

Date Received 7/28/2005

Date Complete 7/29/2005

Tested By PATRICK OTTO

STANDARD DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	Į.
150 rnrn	6"	100	
125 rnrn	5"	100	
100 mm	4"	100	
75 mrn	3"	100	
<i>50</i> rnm	2"	100	
38.1 rnrn	1-112"	100	
25.0 rnm	1''	100	
19.0 rnrn	3/4"	100	
12.5 rnrn	112"	100	
6.3 mm	1/4"	100	
4.75 mm	No.4	100	0.2% Gravel
2.00 rnrn	No. 10	99	
850 urn	No. 20	98	
425 urn	No. 40	95	85.5% Sand
250 urn	No. 60	81	
150 urn	No.100	49	
<i>75</i> um	No.200	14.3	14.3% Fines



Comments: **w** = 9.3% **Sheet 17**