



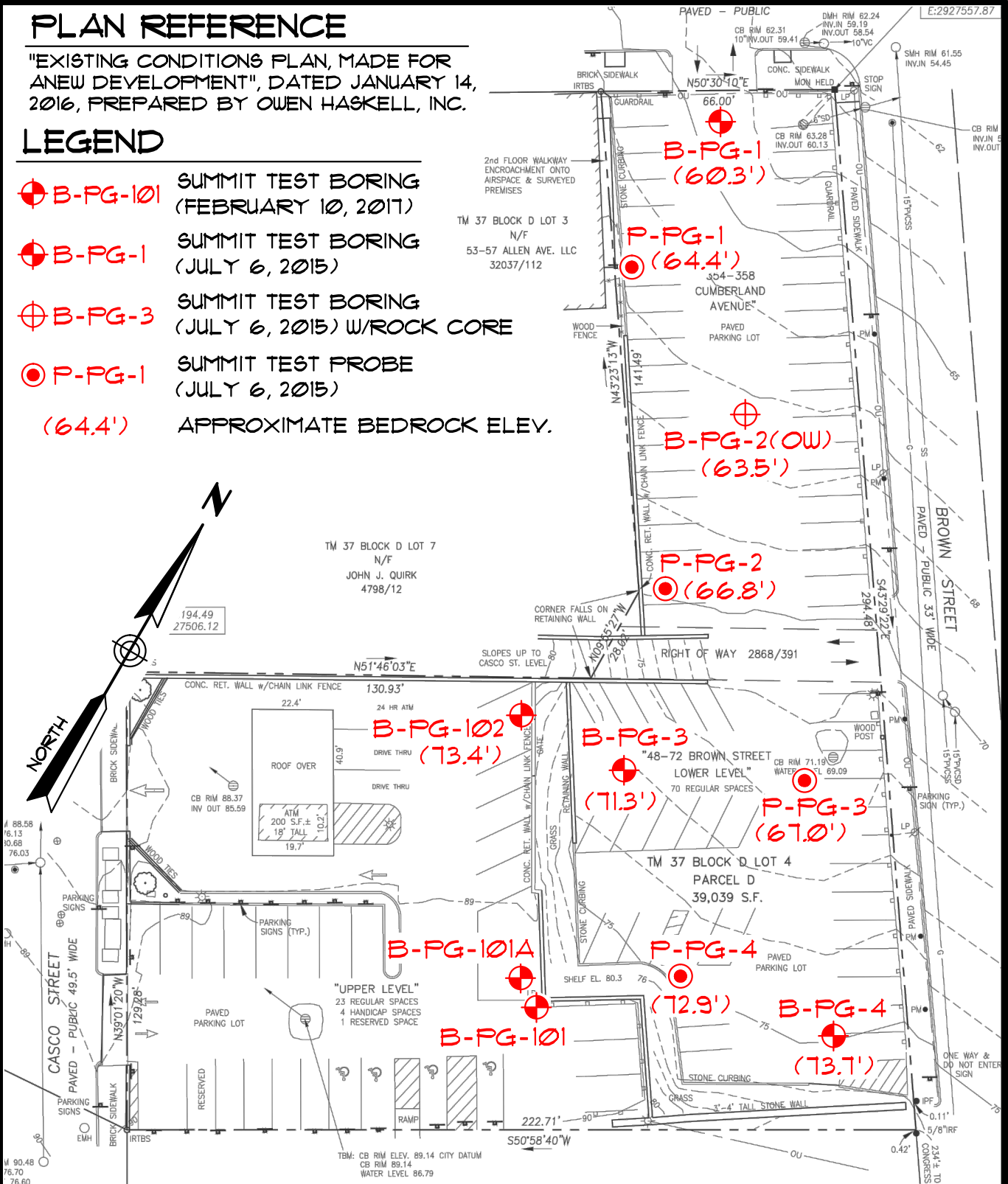


PLAN REFERENCE

"EXISTING CONDITIONS PLAN, MADE FOR ANEW DEVELOPMENT", DATED JANUARY 14, 2016, PREPARED BY OWEN HASKELL, INC.

LEGEND

-  **B-PG-101** SUMMIT TEST BORING (FEBRUARY 10, 2017)
-  **B-PG-1** SUMMIT TEST BORING (JULY 6, 2015)
-  **B-PG-3** SUMMIT TEST BORING (JULY 6, 2015) W/ROCK CORE
-  **P-PG-1** SUMMIT TEST PROBE (JULY 6, 2015)
- (64.4')** APPROXIMATE BEDROCK ELEV.



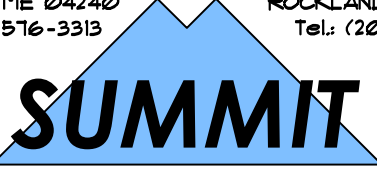
TEST BORING LOCATION PLAN PROPOSED PARKING GARAGE

BROWN STREET - PORTLAND, MAINE
PREPARED FOR
ANEW DEVELOPMENT

DATE: 2-13-2017	DRAWN BY: KRF	CHECKED BY: UMP
JOB: 15108.1	SCALE: 1" = 40'	FILE: 15108 BOR

145 LISBON ST. - SUITE 601
LEWISTON, ME 04240
Tel: (207) 576-3313

173 PLEASANT STREET
ROCKLAND, ME 04841
Tel: (207) 318-1161



SUMMIT
GEOENGINEERING SERVICES
www.summitgeoeng.com



SOIL BORING LOG

Boring #: **B-PG-101**

Project: Brown Street Parking Garage
 Location: 511 Congress St
 City, State: Portland, Maine

Project #: 15108.1
 Sheet: 1 of 1
 Chkd by:

Drilling Co: New England Boring Contractors
 Driller: P. Schofield
 Summit Staff: B. Peterlein, P.E.

Boring Elevation: 89 ft +/-
 Reference: Existing Conditions Plan, January 2016, Owen Haskell
 Date started: 2/10/2017 Date Completed: 2/10/2017

DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH			
Vehicle:	Truck	Length:	24" SS	Date	Depth	Elevation	Reference
Model:	Mobil B48	Diameter:	2"OD/1.5"ID	2/10/2017			None Observed
Method:	2-1/2 inch H.S.A.	Hammer:	140 lb				
Hammer Style:	Auto	Method:	ASTM D1586				

Depth (ft.)	DRILLING METHOD		SAMPLER		Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"				
1	S-1	24/12	0.2 to 2.5	6		4" Pavement Brown Sandy GRAVEL, trace Silt, moist, compact, GP	FILL	
2				8				
3	S-2	24/8	2.5 to 4.5	4		Dark brown Sandy SILT, trace Clay and Gravel, trace Brick and Ash, damp, firm, ML	FILL	
4				5				
5				3				
6				4				
7								
8						Auger Refusal at 7.1 ft - Bedrock or Rubble	BEDROCK OR RUBBLE	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test <u>Bedrock Joints</u> Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Soil Moisture Condition Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft	< 5% Trace		
5-10	Loose	2-4	Soft	5-15% Little		
11-30	Compact	5-8	Firm	15-30% Some		
31-50	Dense	9-15	Stiff	> 30% With		
>50	V. Dense	16-30	V. Stiff			
		>30	Hard			



SOIL BORING LOG

Boring #: **B-PG-101A**

Project: Brown Street Parking Garage
 Location: 511 Congress St
 City, State: Portland, Maine

Project #: 15108.1
 Sheet: 1 of 1
 Chkd by:

Drilling Co: New England Boring Contractors
 Driller: P. Schofield
 Summit Staff: B. Peterlein, P.E.

Boring Elevation: 89 ft +/-
 Reference: Existing Conditions Plan, January 2016, Owen Haskell
 Date started: 2/10/2017 Date Completed: 2/10/2017

DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH			
Vehicle:	Truck	Length:	24" SS	Date	Depth	Elevation	Reference
Model:	Mobil B48	Diameter:	2"OD/1.5"ID	2/10/2017			None Observed
Method:	2-1/2 inch H.S.A.	Hammer:	140 lb				
Hammer Style:	Auto	Method:	ASTM D1586				

Depth (ft.)	SAMPLER				Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"				
1						AUGER to 4 ft Grayish-brown Sandy SILT, trace Clay and Gravel trace white Ash, damp, firm, ML	FILL	
2								
3								
4	S-2	24/6	4 to 6	3				
5				2	Auger Refusal at 6.5 ft - Bedrock or Rubble	BEDROCK OR RUBBLE		
6				4				
7				2				
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Soil Moisture Condition Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft	< 5% Trace 5-15% Little 15-30% Some > 30% With		
5-10	Loose	2-4	Soft			
11-30	Compact	5-8	Firm			
31-50	Dense	9-15	Stiff			
>50	V. Dense	16-30	V. Stiff			
		>30	Hard			



SOIL BORING LOG

Boring #: **B-PG-102**

Project: Brown Street Parking Garage
 Location: 511 Congress St
 City, State: Portland, Maine

Project #: 15108.1
 Sheet: 1 of 1
 Chkd by:

Drilling Co: New England Boring Contractors
 Driller: P. Schofield
 Summit Staff: B. Peterlein, P.E.

Boring Elevation: 89 ft +/-
 Reference: Existing Conditions Plan, January 2016, Owen Haskell
 Date started: 2/10/2017 Date Completed: 2/10/2017

DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH			
Vehicle:	Truck	Length:	24" SS	Date	Depth	Elevation	Reference
Model:	Mobil B48	Diameter:	2"OD/1.5"ID	2/10/2017			None Observed
Method:	2-1/2 inch H.S.A.	Hammer:	140 lb				
Hammer Style:	Auto	Method:	ASTM D1586				

Depth (ft.)	SAMPLER				Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"				
1			0.5 to 2	2		6" Pavement Brown Gravelly SAND, trace Silt, moist, compact, SP ----- Black Silty SAND, trace Gravel, trace Ash and Brick, moist, compact, SM Same as above, little to some brick pieces	FILL	
				9				
2				6				
		2 to 4		6				
3				9				
				11				
4				8				
		4 to 6		7				
5				6				
				5				
6				6				
7								
8								
9								
		9 to 11		4		Olive-brown slightly mottled Sandy SILT, trace Gravel and Clay, damp	REWORKED GLACIAL TILL	
10				4				
				3				
11				1				
12								
13								
						Olive-brown, mottled, Silty SAND, trace Gravel, damp, dense, SM	GLACIAL TILL	
14								
		14 to 16		9				
15				17				
				19				
16				50-1"		End of Boring on Auger Refusal at 15.6 ft	BEDROCK	
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test <u>Bedrock Joints</u> Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Soil Moisture Condition Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft	< 5% Trace 5-15% Little 15-30% Some > 30% With		
5-10	Loose	2-4	Soft			
11-30	Compact	5-8	Firm			
31-50	Dense	9-15	Stiff			
>50	V. Dense	16-30	V. Stiff			
		>30	Hard			