Weinstein Lovell & Ordway, P.A.

November <u>17</u>, 2020

Mr. Bob Hamblen, Planner City of Saco 300 Main Street Saco, ME 04072

Subject: Proposed Site Development

Saco Harborside at Factory Island East, Saco, Maine

Submission for Major Site Plan and Subdivision Review/Approval

Applicant: Saco Island Ventures, LLC

Dear Mr. Hamblen:

On behalf of Saco Island Ventures, LLC, I am making this submission for a Major Site Plan and Subdivision Review/Approval for the proposed residential development at "Saco Harborside" at Factory Island East.

The 5.55-acre property is identified on Tax Map 037/Lot 006. This firm has been retained and authorized by the Applicant to submit this application. In these efforts the development team has been supported by Stephen Bushey of Gorrill Palmer, civil engineers.

The applicant is proposing improvements to the site that includes the construction of 24 townhouse style duplex units (12 buildings in total). The proposed site improvements include a new access drive off Main Street opposite the existing driveway into the Run of the Mill site at 100 Main Street. The project traffic consultant will prepare a Traffic Movement Permit Application with the MaineDOT that may consider the signalization of this intersection. The site improvements will include traditional water, sewer, drainage, and underground utilities for power and communications.

Saco Island Ventures, LLC purchased the property at foreclosure auction in August of 2019, as evidenced by the deed enclosed herewith.

The development site was previously considered for a larger scale 30-unit residential development during the 2006-2007-time period and various City and State approvals were granted at that time. Those permits ultimately lapsed due to inactivity on the development proposal, thus new permits are now being pursued.

The applicant will deliver a check to the Planning Department for Major Site Plan and Site Location of Development Permit Review Application Fee made payable to the City of Saco. We fully expect that more robust submission materials will be supplied to the City as the review

process evolves, however we are hopeful that this preliminary submission allows an initial review by City staff and the Planning Board.

PROJECT

The subject property is located within the B-4 Planned Development District. The proposed project will be located on a 5.55-acre lot 1. Within the B-4 District the following dimensional requirements apply per Table 412-1 of the zoning code:

Requirement	Measurement
Minimum Lot Area (sewered)	*
Minimum Lot Area (per dwelling unit)	*
Minimum New Residential Acreage (per dwelling unit in subdivisions)	*
Minimum Street Frontage	*
Minimum Depth of Front Yard	*
Maximum Front Setback	N/A *
Minimum Width of side Yard and Rear Yard	*
Maximum Lot Coverage	*
Maximum Height	*
Minimum Setback from Normal High-Water Mark of Freshwater Bodies,	25 feet
Spring High Tide Level of Tidal Waters, and Upland Edge of Wetlands	

• To be determined as part of subdivision and site plan review procedures.

The lot does not contain frontage on Main Street; however, the Applicant does have an easement from Central Maine Power to cross their property from Main Street into the Site. The easement is included within the deed attached hereto as Attachment B.

According to the City's Zoning Code, the following uses are allowed within the B-4 Zone:

Permitted Uses in B-4 District Include: Planned Developments pursuant to the procedures and standards contained in §230-706; any use permitted in the Resource Protection District and Marinas among others. Code Section 230-706 A (2) states as follows regarding uses within Planned Developments:

"During the course of review, the Planning Board may allow those uses which are consistent with the City's Comprehensive Plan and with the intent of this chapter, including a mix of residential, office, retail, recreational, and light industrial uses. The following shall serve as guidance to the developer and the Planning Board in determining the appropriate uses:

(a) Multifamily dwellings.

¹ As indicated on the Boundary Survey. Ownership may extend to the thread of the river, thus the actual ownership is larger.

- (b) Professional offices.
- (c) Business offices and services.
- (d) Eating places, eating-and-drinking places.
- (e) Personal services.
- (f) Pedestrian-oriented retail businesses.
- (g) Financial institutions.
- (h) Research and development facilities.
- (i) Light manufacturing and light assembly uses which do not create heavy truck traffic or large volumes of truck traffic and which are not offensive due to noise, vibration, smoke, dust, odors, heat or glare.
- (j) Hotels and motels.
- (k) Marinas and similar waterfront uses.
- (1) Accessory recreational uses."

The proposed uses will include multifamily dwellings and will therefore be in conformance to the permitted uses for the Zoning District. Based on our review of the Space and Bulk Regulations, we believe the proposed project will meet the zoning requirements.

EXISTING CONDITIONS

The site has a long history of activity going back to at least the early 1800's to the best of our understanding. Although it has laid in a relative state of non-use over more recent years, historic evidence shows that the site was highly industrialized over various periods of the past two centuries.

The site's current conditions consist of mostly overgrown grounds that have infilled with invasive vegetation, that covers various remnants of an industrial use past. The site is characterized by basically two topographic levels. The lower level, closest to the waterfront, includes a decayed wood and granite block revetment structure, extending over 1,000 LF along the south shore of the island. Much of this revetment borders the Federal Channel within the river. Within the lower level, some of the ground lies with the mapped floodplain limits. Recent geotechnical investigations uncovered various remnants of past land use including significant wood cribworks and manmade land at depths of 1' to 7', indicative of the site's past waterfront activity and possible vessel berthing. Within the lower level there is a significant concrete pad area underlying much of the site and remnant above grade concrete walls, related to past structures. The site's higher plateau rises nearly 20' to 30' higher as the site trends northerly overlooking the water. The higher ground is

characterized by several large mounds of placed fill material, the background and purpose of which is unknown. Based on photographic evidence much of this fill was likely placed over the past 20 years.

Dow & Coulombe Inc. surveyors, have completed topographic and boundary line data collection. A copy of the most recent survey plan accompanies this submission. The site's topography ranges from an elevation of approximately 5.0' (NAD88) to as high as 50.0'. Further north, the island rises to elevation 60.0' or higher across the CMP substation site. The property ownership is identified on the Survey Plan and as well as on the Deed recorded in the York County Registry of Deeds Book 18023 page 284, a copy of which is contained in this submission.

The Site's geotechnical conditions include a description of filled land over much of the property, shallow ledge in the upper regions of the site and deeper ledge underlying layers of old fill, glacial till and marine clays within the lower areas of the site. Initial foundation design conditions are currently believed to require pile supported structures over much if not all of the proposed structures.

The applicant has also retained Summit Geoengineering Services to conduct a Phase 1 Environmental Site Assessment (ESA). The assessment has revealed evidence of recognized environmental conditions in connection with the property. This includes coal ash and limited petroleum contamination. The MaineDEP issued a No Action Assurance letter to the previous landowner and the current applicant/owner will be seeking to transfer this coverage under the State's VRAP program. Ultimately, the Phase 1 recommendations are as follows:

- Ensure that the conditions of the MaineDEP VRAP No Action Assurance Letter have been met and the applicant shall submit documentation to the MaineDEP to obtain a certificate of completion for the site.
- In the course of Site Work activities, if unknown soil contamination is encountered, MaineDEP shall be notified and a satisfactory course of action shall be taken to remediate the soil to the satisfaction of the MaineDEP.
- The MaineDEP VRAP should be notified that the ownership of the Site has changed since the prior application by J & B Partners.
- Remove and properly dispose of all solid waste and refuse present at the vagrant tent sites on the subject property.

BUILDINGS AND ACCESS

The conceptual development plan includes the placement of twelve buildings as outlined previously. Initial elevations and floor plans of the units will be provided upon completion. The applicant will accept as a condition of approval the need to revisit these buildings with at least

Planning Staff if not the Planning Board, prior to the submission of building permit applications. The footprints for each duplex building is anticipated to be 3,704 s.f. and the height of the buildings is anticipated to be under 35 feet.

The site's access will be from a new driveway positioned to align with the existing signaled intersection opposite the Mill entrance at 100 Main Street. The traffic signals have been in place for a number of years; however, they have not been fully activated due to insufficient traffic volumes from the side approaches. The proposed driveway will consist of separate lanes (possibly left-thru and a right turn lanes configuration) and a single wide entry lane into the site. The traffic design is expected to consider pedestrian facilities also, including pedestrian crossing signals and related measures for cross walks and sidewalk connectivity. The development will include a robust sidewalk and pedestrian connection layout. The applicant is committed to working with the City on their efforts for a riverwalk or related recreational opportunities on the east side of the island. The onsite drives will remain privately owned and maintained.

UTILITIES

The site is undeveloped and utility connections will need to be constructed. There are existing sanitary sewer and water mains within Main Street and the west side of the site. The applicant will coordinate with both Maine Water Company and the City of Saco Water Resources Recovery Department regarding their ability to service the development with both water and sewer. Based on the site's topographic conditions, the applicant believes that an onsite wastewater pump station will be required to collect and discharge wastewater from the development to the municipal system on the street. There is an existing Force Main sewer line extending from an existing municipal pump station on the west side of the island and the applicant expects to tie into that line with similar pressure sewer infrastructure from the development site. The applicant also expects that a primary service water main (8" or greater size) will be extended into the site off which services to the buildings for fire supply and domestic water service will be provided. One or more fire hydrants are also expected to be installed on the property, in accordance with the Saco Fire Department requirements. Sprinkler systems will be installed if required by code. The exact location of hydrants remains to be determined with the Fire Department.

Overhead power and telephone facilities exist on the island. The applicant plans to coordinate service availability with the power and communications providers. The applicant contemplates that all power and communications services will be underground and will be extended from the overhead facilities along Main Street.

TRAFFIC

The Applicant plans to engage a traffic consultant to perform a traffic analysis for the project. It is unlikely that the project will require an updated Traffic Movement Permit (TMP) from the MaineDOT. The development site was previously part of an approved TMP in 2007 (REG.01-00090-A-N), that included the development of 30 residential townhouses and a 69-slip marina.

SOLID WASTE

The specifics for solid waste collection and removal have yet to be determined, however it is contemplated that there may be one or more waste collection areas, that will be enclosed with appropriate screening and landscaping. The applicant will coordinate removal by a contracted waste services vendor. A standard detail for an exterior waste enclosure will be contained in the plan set. These will include a metal framing with solid wood paneling style to provide both aesthetic form and solid, durable construction.

SNOW REMOVAL

Snow will be stockpiled onsite in areas around the perimeter of the pavement and/or removed from the site. Snow removal will likely be required given the site's limited space and availability to stockpile snow. Dumping of snow into the river is prohibited.

LIGHTING

A full lighting plan for the site is currently under development. The Applicant anticipates there will be some lighting along the main access drive. There will also be building mounted light fixtures providing safety and security lighting coverage. Based on the building locations and site conditions, the Applicant foresees little to no lighting spillover to adjacent properties.

FIRE PROTECTION

The proposed site will contain access routes that allow for the vehicular movements of emergency vehicles including fire trucks and ambulances. If required by applicable code, each of the proposed buildings will contain a full fire suppression/sprinkler system. Multiple fire hydrants will be provided within the development, with exact location to be finalized through coordination with the fire department.

EROSION AND SEDIMENT CONTROL

The natural gradation of the site slopes towards the Saco River. Sediment barriers will be placed on the perimeter of the site throughout the course of construction. A temporary stabilized stone construction entrance will be used to minimize tracking of mud onto the site's paved surfaces and nearby Main street. Guidelines set forth in the Maine Erosion and Sediment Control BMPs must be followed. The site improvements will include soils stabilization throughout during and following construction.

LANDSCAPING/STORMWATER MANAGEMENT

A full landscaping plan is currently under development. The site is expected to include a robust landscape treatment around the proposed structures. The applicant remains committed to working with City officials and the Saco River Corridor Commission to arrive at a site improvement program that meets several key objectives. Namely, this includes site surface stabilization to remedy erosion issues, landscaping in the form of significant vegetation restoration to enhance the grounds, improve aesthetics and transform this historically industrial waterfront, to a more visually enhanced appearance. We believe these actions will only serve to improve the overall impact of the property on the river's water quality and experience to river users.

The site is currently characterized by significant invasive vegetation including alder, black locust trees, birch and various other species. Given the historical industrial use nature of the site, there is no apparent landscape design to the site, but only what has naturally occurred over more recent years. The design objective will be to remove much if not all, of the invasive species within the site and to replace with substantial new native species.

Further to the landscape design will be the interchange of landscaping with stormwater management measures. The site is directly tributary to tidal water, thus the requirement for stormwater management flood control is not necessary, and the applicant will be requesting a waiver for any flooding control measures, as might be required under the MaineDEP Chapter 500 Stormwater Management regulations or local City of Saco regulations. The site development may require compliance with the MaineDEP Chapter 500 Water quality treatment General Standards and local City and Saco River Corridor Commission requirements. A more complete stormwater management analysis and report shall be provided to supplement this submission.

PERMITS

The development will require the following permits:

- Local Site Plan, Subdivision plan & Shoreland Permit from the Planning Board
- Delegated Review under the State Site Location of Development Act
- MaineDEP Natural Resources Protection Act (NRPA) Individual Permit
- US Army Corps of Engineers Section 10 and Section 404 Water Quality certification
- Saco River Corridor Commission Approval
- Local Building Permits

PLANS

The following plans accompany this submission:

- Conceptual site plan
- Topographic and Boundary Survey by Dow & Coulombe

CLOSURE

We have included a PDF of all the application materials as well as three (3) full size copies and three (3) 11x17 size copies of the plan set. We look forward to your review as well as City Staff. Please advise if additional copies of these materials are required.

Very Truly Yours,

Paul D. Weinstein, Esq. Attorney for Applicant

Cc: Saco Island Ventures, LLC

Stephen Bushey

Application #____



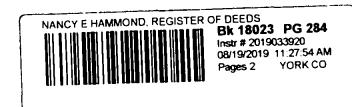
Subdivision Review Application Planning & Development Department Planning Board

Street Address of Proposed Project: Main Street	Tax Map & Lot:
York County Registry of Deeds Book & Page Number:	
Applicant:	
Applicant's Address: 8 Doaks Lane, Marblehead, MA 01945	
Applicant's Email & Phone #:	781-631-4133 x 102
Architect/Engineer's Name: Gorrill Palmer c/o Stephen Bushey	
Architect/Engineer's Email & Phone #:	
Architect/Engineer's Address:	
Property Owner:	
Property Owner's Email & Phone #:	com; 781-631-4133 x 102
Property Owner's Address: 8 Doaks Lane, Marblehead, MA 019	
5.55 Acres Area of Parcel: Proposed Developed Area:	
Development and construction of 24 to	ownhouse style duplex
condominium units (12 buildings in total)	
Signature & Application Requirements: Applications are due at least Planning Board meetings, but the Department encourages applicants Planning Board meeting. Staff will schedule your application for a Plane reviews are complete and comments have been sufficiently addressed	to plan for five weeks before a anning Board meeting once all
	11 12 20
Signature of Owner/Applicant	Date

Map-Lot	Grantee	Co-Grantee	Mailing	City	State	Zip
37005001000	CENTRAL ME POWER CO	C/O AVANGRID MANAGEMENT COMPANY	LOCAL TAXES 5TH FLOOR	PORTLAND	ME	4101
37001000000	THE ROTM LOFTS LLC		2 MAIN ST	TOPSHAM	ME	4086
37006000000	J&B PARTNERS LLC		110 MAIN ST STE 1214	SACO	ME	4072
37005001000	CENTRAL ME POWER CO	C/O AVANGRID MANAGEMENT COMPANY	LOCAL TAXES 5TH FLOOR	PORTLAND	ME	4101
31174000000	HOME RENTALS ME LLC		41 RIVER RIDGE DR	DAYTON	ME	4005
31183000000	CENTRAL ME POWER CO	C/O AVANGRID MANAGEMENT COMPANY	LOCAL TAXES 5TH FLOOR	PORTLAND	ME	4101
	ULTIMATE VALUE PROPERTIES LLC		PO BOX 636	WEST KENNEBUNK	ME	4094
	PELLETIER JOSHUA B	PELLETIER ALISON O	26 FRONT ST APT 1	SACO	ME	4072
	BROOKFIELD WHITE PINE HYDRO LLC		BROOKFIELD RENEWABLE 200 DONALD LYNCH BLVD #300	MARLBOROUGH	MA	1752
	PELLETIER JOSHUA B	PELLETIER ALISON P	26 FRONT ST APT 1	SACO	ME	4072
	BROOKFIELD WHITE PINE HYDRO LLC		200 DONALD LYNCH BLVD SUITE 300	MARLBOROUGH	MA	1752
	MCGRATH SR JEFFREY J		2 WHARF ST	SACO	ME	4072
	BROOKFIELD WHITE PINE HYDRO LLC		BROOKFIELD RENEWABLE 200 DONALD LYNCH BLVD #300	MARLBOROUGH	MA	1752
37005000000	BROOKFIELD WHITE PINE HYDRO LLC		200 DONALD LYNCH BLVD SUITE 300	MARLBOROUGH	MA	1752
	BOSTON & MAINE RAILROAD	C/O GUILFORD TRANSP. INDUSTRIES	IRON HORSE PK	NORTH BILLERICA	MA	1862
31181000000	CITY OF SACO		300 MAIN ST	SACO	ME	4072
37005000000	CENTRAL ME POWER CO	C/O AVANGRID MANAGEMENT COMPANY	LOCAL TAXES 5TH FLOOR	PORTLAND	ME	4101
	CITY OF SACO		300 MAIN ST	SACO	ME	4072
31145000000	CENTRAL ME POWER CO	C/O AVANGRID MANAGEMENT COMPANY	LOCAL TAXES 5TH FLOOR	PORTLAND	ME	4101
31184000000	BROOKFIELD WHITE PINE HYDRO LLC		BROOKFIELD RENEWABLE 200 DONALD LYNCH BLVD	MARLBOROUGH	MA	1752
31196000000	PELLETIER GEORGE E SR	PELLETIER PATRICIA A	PO BOX 672	SACO	ME	4072
31182000000	MACKENZIE WILLIAM P	MACKENZIE JANICE R	P O BOX 74	BAR MILLS	ME	4004
37001001000	SAVAGE ROBIN		110 MAIN ST UNIT #331	SACO	ME	4072
37001001000	RENNER CYNTHIA S		110 MAIN ST UNIT #308	SACO	ME	4072
37001001000	QUINLAN ADAM THOMAS		PO BOX 676	KENNEBUNKPORT	ME	4046
37001001000	CAMPBELL MAURICE D	CAMPBELL CLAUDETTE A	760 CLARKS WOODS RD	LYMAN	ME	4002
37001003000	BAXTER & CUTTS LLC		22 MONUMENT SQ #602	PORTLAND	ME	4101
37001001000	BETTERS DIANE		52 WESTMORE AVE	BIDDEFORD	ME	04005-2117
37001001000	MALENFANT CALEB		110 MAIN ST	SACO	ME	4072
37001001000	MICHEL JILL	HELLSTRAND KARL	64 WEST ST	CROMWELL	CT	6416
37001001000	QUARTUCCIO SCOTT L		309 DUBLIN SQ	PURCELLVILLE	VA	20132
37001001000	REASER RICHARD C		110 MAIN ST	SACO	ME	4072
37001001000	HACK J TILTON JR		2415 CEDAR ST	BERKELEY	CA	94708-1822
37001001000	SUSMAN DAVID E		110 MAIN ST UNIT #124	SACO	ME	4072
37001001000	CASARIN JOSEPH J		110 MAIN ST UNIT #322	SACO	ME	4072
37001001000	LEEAPHON TOM	LEEAPHON ETSUKO	8 DEAN WAY	CAPE ELIZABETH	ME	4107
37001001000) WATSON LYNN I		110 MAIN ST UNIT #104	SACO	ME	4072
37001001000	CAMPBELL RUTH E		110 MAIN ST APT 127	SACO	ME	4072
37001001000	MILLER RUTH S		110 MAIN ST UNIT 305	SACO	ME	4072
37001001000	HARTMAN HUGH A JR		110 MAIN ST UNIT334	SACO	ME	4072
37001001000	LANDRUM CHARLES R	ALISA BEAROV	630 SHIRLEY AVE	NORFOLK	VA	23517
37001001000	TILLEY JUDY		1663 NOTRE DAME	BONNE TERRE	MO	63628
37001001000	NADEAU STEVE	NADEAU BETH	21 ZEPHYR RD	RAYMOND	ME	4071
37001001000	LEONE, JOYCE M POLAKOFF		1535 LEISURE DR F5	BRADENTON	FL	34207
37001001000	TATE DAVID F	TATE LAUREN E	10 RYEFIELD DR	SCARBOROUGH	ME	4074
37001001000	ZHOU LIN	BOTTALICO MAURO	18 PARK STREET #405	SACO	ME	4072

37001001000 FRAZIER ROBERT L	FRAZIER CHERYL L	1765 MAIN ST	STRATFORD	СТ	6615
37001001000 PRICE MAURA		110 MAIN ST UNIT 128	SACO	ME	4072
37001001000 BRYANT-GAFFNEY PRISCILLA	GAFFNEY JAMES N	110 MAIN ST UNIT 306	SACO	ME	4072
37001001000 BEDARD DEREK		PO BOX 366	ELIOT	ME	03903-0366
37001001000 CONDO MAIN		110 MAIN ST	SACO	ME	4072
37001001000 KIRBY ROBERT C		PO BOX 1003	SACO	ME	04072-1003
37001001000 SANTOSUOSSO, JOSEPH A.		14 WELLS RD	LINCOLN	MA	1773
37001001000 ROBINSON ANDREW I		110 MAIN ST #320	SACO	ME	4072
37001001000 RINGSTAD JOHN G		1779 WOODSTOCK RD	WOODSTOCK	MD	21163
37001001000 MAYO COLLEEN K		537 RIVER RD	STANDISH	ME	4084
37001001000 NASH CLINTON	NASH LISA	110 MAIN ST	SACO	ME	4072
37001001000 TAHMOOSH LAUREL B TRUSTEE	LAUREL TAHMOOSH 2014 REVOCABLE TRUST	50 NYE ST	SACO	ME	4072
37001001000 ATWOOD PAMELA A		110 MAIN ST #108	SACO	ME	4072
37001001000 TILTON SUMNER B TRUSTEE	KARL KENYON F FAMILY TRUST	370 MAIN ST 12TH FLOOR	WORCESTER	MA	1608
37001001000 DIRIGO GLOBAL HOLDINGS LLC		6 E CHESTNUT ST STE 206	AUGUSTA	ME	4330
37001002000 CITY OF SACO		300 MAIN ST	SACO	ME	4072
37001001000 AMN PROPERTIES LLC		58 LISBON RD	SABATTUS	ME	4280
37001001000 ST PETER KAITLIN		110 MAIN ST	SACO	ME	4072
37001001000 BOUCHARD JASON M		110 MAIN ST UNIT 404	SACO	ME	4072
37001001000 HORTON DONALD L	HORTON KATHRYN A	110 MAIN ST APT 139	SACO	ME	4072
37001001000 DYER WILLIAM	DYER LINDA	39 CORDIS ST	WAKEFIELD	MA	1880
37001001000 NAVARRO DIANNE F		110 MAIN ST	SACO	ME	4072
37001001000 CHIANESE TAMMY		110 MAIN ST #125	SACO	ME	4072
37001001000 MUIR MELISSA H	MUIR JR JAMES D	124 KENDALL PARKWAY	BOERNE	TX	78015
37001001000 TATE KRISTEN S	GLUECKERT SAMUEL R	PO BOX 7031	OCEAN PARK	ME	4063
37001001000 KNOWLTON PHILIP		110 MAIN ST #126	SACO	ME	4072
37001001000 GORDON CHRISTIAN J	REED DONNA L	493 SOUTH ST	BIDDEFORD	ME	04005-9393
37001001000 BAILEY-WORTH GUNNAR E		110 MAIN ST	SACO	ME	4072
37001001000 SNOW DONNA E		148 SIMPSON RD	SACO	ME	4072
37001001000 LANDRUM CHARLES R	ALISA BEAROV	630 SHIRLEY AVE	NORFOLK	VA	23517
37001001000 CAMPBELL MAURICE D	CAMPBELL CLAUDETTE A	760 CLARKS WOODS RD	LYMAN	ME	4002
37001001000 GIAROLO JOHN B		2 PAVIA AVE	OLD ORCHARD BEACH	ME	4064
37001001000 CAMPBELL MAURICE D	CAMPBELL CLAUDETTE	760 CLARKS WOODS RD	LYMAN	ME	4002
37001001000 MARTIN J MICHAEL		110 MAIN ST UNIT #318	SACO	ME	4072
37001001000 MORRIS ANNE M		110 MAIN ST UNIT #114	SACO	ME	4072
37001001000 DACONG ANGELES		110 MAIN ST UNIT #120	SACO	ME	4072
37001001000 WITKOWKSI ROBERT T		216 SPRING ST	PORTLAND	ME	4102
37001001000 BIXBY PETER	CARAPETYAN FRANCELLE	110 MAIN ST #332	SACO	ME	4072
37001001000 MCWATTERS KEVIN	MCWATTERS KAREN	110 MAIN ST 106	SACO	ME	4072
37001001000 CAMPBELL MAURICE D	CAMPBELL CLAUDETTE A	760 CLARKS WOODS RD	LYMAN	ME	4002
37001001000 MARRA GEORGE A	MARRA LINDA F	29 MYRICKS ST	LAKEVILLE	MA	2347
37001001000 110 MAIN STREET HOLDINGS LLC		24 NORTH AVE	SACO	ME	4072
37001001000 BEDARD DEREK G		PO BOX 366	ELIOT	ME	03903-0366
37001001000 CRIMMIN BRANDON	KELLY MEGAN	110 MAIN ST UNIT 117	SACO	ME	4072
37001001000 MORNEAU KATHERINE JR TR	MAROWITZ FRANK P TR	21 PENNY LN	MANCHESTER	NH	3104
37001001000 FOLEY KELLY P	FOLEY ROBERT J	110 MAIN ST # 123	SACO	ME	4072
37001001000 ARCHAMBAULT CARRIER DANETTE J		110 MAIN ST UNIT #315	SACO	ME	4072
37001001000 JONES BRENT	GAULIN-JONES BARBARA	1925 ORCHARDVIEW AVE	ORLEANS	ON	K4A-3H1
37001000001 91 CORPORATION MAIN		8 DOAKS LANE	MARBLEHEAD	MA	1945
37001001000 HEADACHE INC		760 CLARKS WOOD RD	LYMAN	ME	4002

37001001000 SHELTON HILDA		110 MAIN ST UNIT 109	SACO	ME	4072
37001001000 CAMPBELL MAURICE D	CAMPBELL CLAUDETTE A	760 CLARKS WOODS RD	LYMAN	ME	4002
37001001000 WOODHOUSE PATRICIA S	WOODHOUSE DAVID K	3 AUSTRIAN WAY	FALMOUTH	ME	4105
37001001000 STULTZ BRANDON L	STULTZ HEATHER L	23 TROLLEY FARM WAY	FALMOUTH	ME	4105
37001001000 DALTON BRUCE		367 ROLAND DAY RD	CORNISH	ME	4020
37001001000 ROSE CASSAUNDRA A	ROSE THATCHER	110 MAIN ST UNIT 304	SACO	ME	4072
37001001000 DONALDSON JUDITH M		351 POOL ST	BIDDEFORD	ME	4005
37001001000 WHITE VINCENT F	WHITE MARGARET A	110 MAIN ST UNIT #112	SACO	ME	4072
37001001000 SHANTAM ANURAG		110 MAIN ST UNIT #316	SACO	ME	4072
37001001000 CAMPBELL MAURICE D	CAMPBELL CLAUDETTE A	760 CLARKS WOODS RD	LYMAN	ME	4002
37001001000 NOBLE BARRY C	NOBLE CAROL A	110 MAIN ST #129	SACO	ME	4072
37001001000 WITTIG JEFFREY M	WITTIG ELAINE M VALLIERE	110 MAIN ST #307	SACO	ME	4072
37001001000 MASON GARY A		72 SHAFTER AVE	ALBERTSON	NY	11507
37001001000 LOPES LARRY J		110 MAIN ST UNIT 336	SACO	ME	4072
37001001000 LANTAGNE DAVID		110 MAIN ST UNIT #135	SACO	ME	4072
37008001000 SACO MILL NO 4 LLC	C/O ENCHANCED CAPITAL HTC FUND I, LLC	3 PENSTOCK WAY	NEW MARKET	NH	3857
37001001000 CAMPBELL CLAUDETTE A	CAMPBELL MAURICE D	760 CLARKS WOODS RD	LYMAN	ME	4002
37001001000 GAGNON KENNETH T	GAGNON DEBORAH J	110 MAIN ST UNIT#319	SACO	ME	4072
37001001000 EHRING GUY K		P O BOX 21743	FORT LAUDERDALE	FL	33335
37001001000 LANDRUM CHARLES R	LANDRUM-BEAROV ALISA	630 SHIRLEY AVE	NORFOLK	VA	23517
37001001000 JOHNSTON DALE	HILT ROSE C	10 STONE ST	SACO	ME	4072
37001001000 VAN DE GRAFF COLLEEN		110 MAIN ST UNIT 121	SACO	ME	4072



FORECLOSURE DEED UNDER POWER OF SALE

Joan M. Kurker, an individual having a mailing address of 2500 Mystic Valley Parkway, Unit 902, Medford, County of Middlesex, and Commonwealth of Massachusetts, holder of a mortgage from J&B Partners, LLC dated November 16, 2017 to Joan M. Kurker and recorded in the York County Registry of Deeds on November 17, 2017 at Book 17606, Page 936, by the power conferred by such mortgage and every other power, for Eleven Thousand AND 00/100 (\$11,000.00) DOLLARS paid, grants to Saco Island Ventures, LLC, of 8 Doaks Lane, Marblehead, MA 01945, the premises and all personal property conveyed by said mortgage.

IN WITNESS WHEREOF, Joan M. Kurker has caused this instrument to be executed this day of August, 2019.

Joan M. Kurker

By: Wywkor

STATE OF MASSACHUSETTS COUNTY OF MIDDLESEX

8/6/ ,2019

Then personally appeared the above-named Joan M. Kurker, as aforesaid, and acknowledged the foregoing instrument to be her free act and deed in her said capacity.

Before me.

Votary Public

0 [

EXHIBIT A

A certain lot or parcel of land together with the buildings and improvements thereon, situated on Factory Island in Saco, York County, Maine, and more particularly bounded and described as follows, and more particularly depicted on the plan entitled PARTIAL ALTA/ACSM LAND TITLE SURVEY, sheet S2, dated January 25, 2007, revised August 20, 2007, prepared by Oak Engineers (the "ALTA East Plan"):

Beginning at an iron rod that is located on the northeasterly side of the granite seawall along the easterly side of the west branch of the Saco River at the southerly corner of land now or formerly of Central Maine Power;

Thence North 10° 33' 00" West a distance of 168.88' to a point;

Thence North 50° 02' 15" East a distance of 235.65' to a point near an iron rod;

Thence North 29° 29' 30" West a distance of 139.35' to an iron rod with cap #1201;

Thence North 71° 37' 30" East a distance of 196.49' to the base of a bent iron bolt:

Thence continuing N 71° 37' 30" East to the thread of the east branch of the Saco River.

Thence southerly along the thread of the east branch of the Saco River.

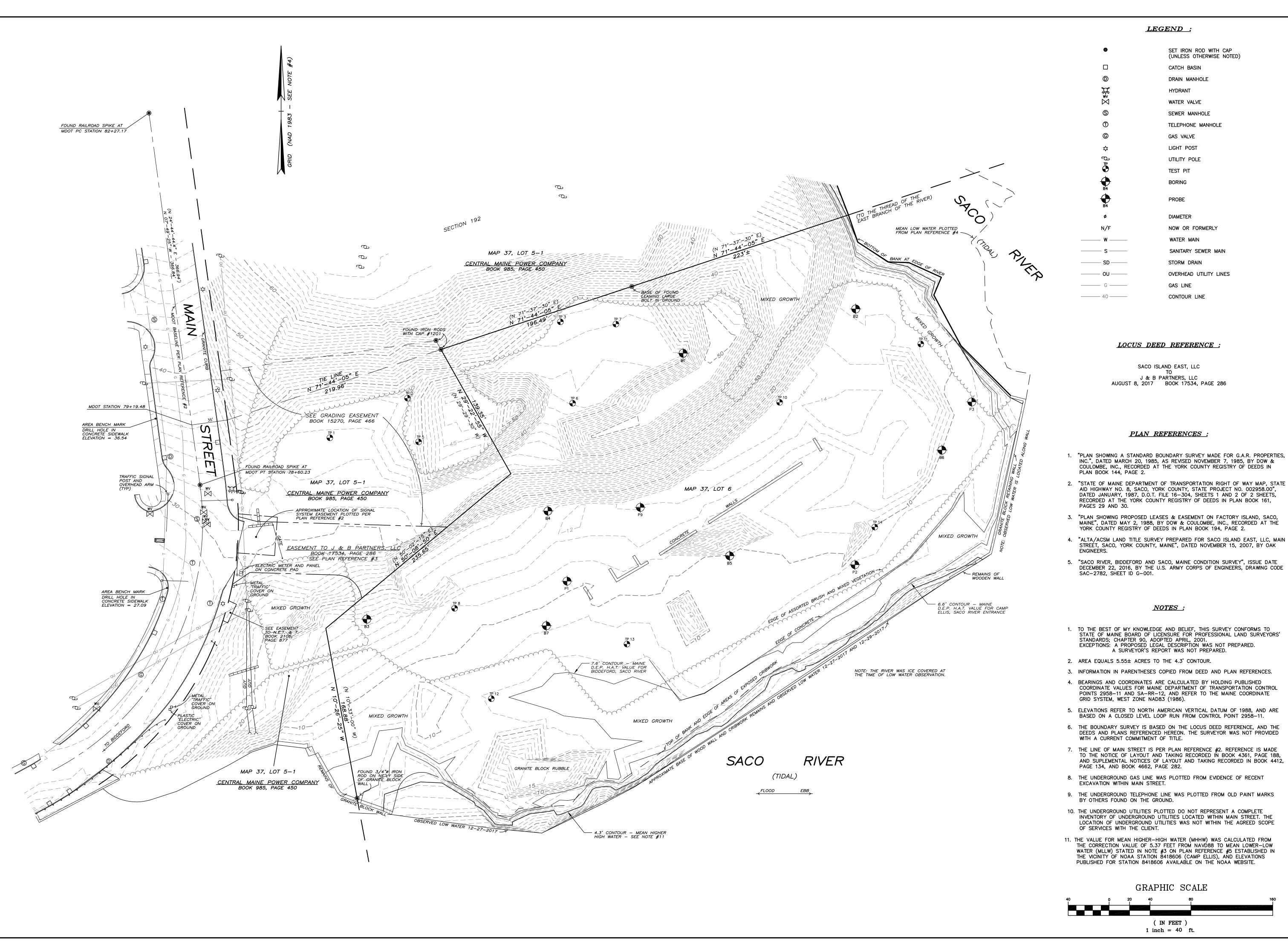
Thence westerly by the thread of the west branch of the Saco River to a point located S 10° 33' 00" East of the point of beginning:

Thence N 10° 33' 00" West to the point of beginning.

Containing approximately 5.84 acres of land to the bank of the Saco River.

Together with a non-exclusive easement over that portion of land now of Central Maine Power Company more particularly bounded and described as the "Proposed Easement, Central Maine Power Co. to Island Associates" on the plan entitled PLAN SHOWING PROPOSED LEASES AND EASEMENT ON FACTORY ISLAND, SACO, MAINE, recorded in the York County Registry of Deeds in Plan Book 194, Page 2, and as set forth in Instrument of Conveyance and Release Agreement made by and among Central Maine Power Company and Island Associates, et al. effective August 7, 1986 and recorded in said registry in Book 5481, Page 15.

For source of title, reference is made to a quit claim deed from Saco Island East, LLC to J&B Partners, LLC dated August 8, 2017, and recorded in said registry in Book 17534, Page 286.





CATCH BASIN

HYDRANT

GAS VALVE LIGHT POST

UTILITY POLE

TEST PIT

BORING

PROBE

DIAMETER

NOW OR FORMERLY

SANITARY SEWER MAIN

OVERHEAD UTILITY LINES

WATER MAIN

STORM DRAIN

CONTOUR LINE

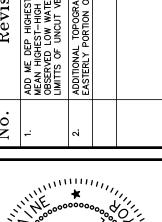
GAS LINE

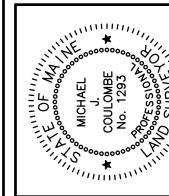
DRAIN MANHOLE

WATER VALVE

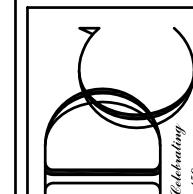
SEWER MANHOLE

TELEPHONE MANHOLE





ER



ombe, I Planners

Do

Land

1. TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS SURVEY CONFORMS TO STATE OF MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS' STANDARDS; CHAPTER 90, ADOPTED APRIL, 2001.

EXCEPTIONS: A PROPOSED LEGAL DESCRIPTION WAS NOT PREPARED.

A SURVEYOR'S REPORT WAS NOT PREPARED.

NOTES:

2. AREA EQUALS 5.55± ACRES TO THE 4.3' CONTOUR.

- 3. INFORMATION IN PARENTHESES COPIED FROM DEED AND PLAN REFERENCES.
- 4. BEARINGS AND COORDINATES ARE CALCULATED BY HOLDING PUBLISHED COORDINATE VALUES FOR MAINE DEPARTMENT OF TRANSPORTATION CONTROL POINTS 2958-11 AND SA-RR-12, AND REFER TO THE MAINE COORDINATE GRID SYSTEM, WEST ZONE NAD83 (1986).
- 5. ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988, AND ARE BASED ON A CLOSED LEVEL LOOP RUN FROM CONTROL POINT 2958-11.
- 6. THE BOUNDARY SURVEY IS BASED ON THE LOCUS DEED REFERENCE, AND THE DEEDS AND PLANS REFERENCED HEREON. THE SURVEYOR WAS NOT PROVIDED
- 7. THE LINE OF MAIN STREET IS PER PLAN REFERENCE #2. REFERENCE IS MADE TO THE NOTICE OF LAYOUT AND TAKING RECORDED IN BOOK 4361, PAGE 188, AND SUPLEMENTAL NOTICES OF LAYOUT AND TAKING RECORDED IN BOOK 4412, PAGE 134, AND BOOK 4662, PAGE 282.
- 8. THE UNDERGROUND GAS LINE WAS PLOTTED FROM EVIDENCE OF RECENT EXCAVATION WITHIN MAIN STREET.
- 9. THE UNDERGROUND TELEPHONE LINE WAS PLOTTED FROM OLD PAINT MARKS
- 10. THE UNDERGROUND UTILITIES PLOTTED DO NOT REPRESENT A COMPLETE INVENTORY OF UNDERGROUND UTILITIES LOCATED WITHIN MAIN STREET. THE LOCATION OF UNDERGROUND UTILITIES WAS NOT WITHIN THE AGREED SCOPE
- 11. THE VALUE FOR MEAN HIGHER-HIGH WATER (MHHW) WAS CALCULATED FROM THE CORRECTION VALUE OF 5.37 FEET FROM NAVD88 TO MEAN LOWER-LOW WATER (MLLW) STATED IN NOTE #3 ON PLAN REFERENCE #5 ESTABLISHED IN THE VICINITY OF NOAA STATION 8418606 (CAMP ELLIS), AND ELEVATIONS PUBLISHED FOR STATION 8418606 AVAILABLE ON THE NOAA WEBSITE.

GRAPHIC SCALE

(IN FEET) 1 inch = 40 ft.

H. Scale: Drawn by: 1" = 40' | MJCChk'd by: Appv'd by:

DECEMBER 12, 2017

PDD SHEET C-1.2

ZONE-1 Dwgs2018\SAULNIER1r2









February 3, 2021

Mr. Bob Hamblen, City Planner 300 Main Street City of Saco, Maine 04072

Subject: Saco Harborside

24 Unit Townhouse development

Factory Island East

Letter of Response #1 - Additional application materials

Dear Bob:

Gorrill Palmer has received your email from January 29, 2021 that outlines various Site Plan Submission requirements that are considered incomplete and require additional supporting evidence. We have reviewed the list and Section 230-1104 of the code and we offer the following supporting information where you have identified incomplete status on your checklist.

Site plan review Submission requirements

Section 230-1104

(c) [6] Location and width of all building setbacks required by the Zoning Ordinance

Evidence: As identified on your checklist the PB shall determine the setbacks. We have provided a minimum setback of 100' from the shorefront and 10 feet from the property lines.

(c) [7] The location and delineation of site elements....

Evidence: The applicant is proposing that the Townhouses will have individual tote containers for solid waste and recycling. The developer will contract with a waste hauler for the weekly removal of waste and recycling. The totes will be stored in each Townhouse garage space and they will be rolled to the driveway edge on the days of pickup. There will be no solid waste enclosure.

All parking is provided for either in the driveways or garages. Each Townhouse includes a 2-car garage, and the driveways are expected to hold at least one additional car for tenants or guests. The design does not include any on street parking on the private drive.



(c) [9] The location and delineation of natural resource areas, historic features, and archaeological features of the site.....

Evidence: The accompanying replies from the various resource agencies are provided for review including Maine IF&W, Maine Natural Areas program and Maine Historic Preservation office. See the Agency replies in Attachment A.

A (3) – Copies of existing and proposed easements, covenants, or deed restrictions

Evidence: Attached is the easement agreement with Central Maine Power that runs with the land to allow access to the property. The owner is currently reviewing the need for future easements and restrictions including any cross-access agreements, drainage, and utilities. The applicant would consider, as a condition of approval, completing these pieces prior to the issuance of a building permit. If the development is to become a condominium, the condo documents will be prepared during the construction and ultimately be completed upon completion of at least the first building, since the documents will rely upon the project record drawings at that time. See the CMP easement in Attachment B.

A (4) – Copies of applicable local and state approvals and permits.

Evidence: The proposed development requires local site plan approval as well as approvals related to the MEDEP Site Location of Development, which we understand the City of Saco has delegated authority to review. We have completed the Municipal Review Form in Attachment C for the City to supply to the MEDEP securing this delegated authorization to review the development. Building permits will also be required at some point in the future. The applicant is not seeking any authorization under the Natural Resources Protection Act or USACOE for shorefront activity currently although they reserve the right to pursue these permits at some point in the future. A local site plan application for shorefront work will also be filed at that time. The applicant does require a Saco River Corridor Commission authorization and they intend to pursue that permit later this year, thus they would consider, as a condition of approval, submission of a SRCC approval as a condition tied to the issuance of a building permit.

A (12) – A waste disposal plan

Evidence: The 24 townhouses will handle solid waste and recycling by simply collecting in totes that can be picked up by a contracted waste hauler on a weekly basis. A contract has not yet been signed with a local waste hauler; however, it is anticipated that a local hauler such as Trioano Waste Services, who service the applicant's development on the west side of the island currently.

A (13) – A medium intensity soils maps of the site.

Evidence: The accompanying boring and test pit logs as provided by Summit Geoengineering are provided to satisfy this submission requirements, in lieu of the



medium intensity soil survey. There will be no onsite subsurface wastewater disposal systems on the site, therefore the need for medium or even high intensity soils mapping is less applicable in our opinion. See the soils information in Attachment D.

A. (15) – An Estimate of the amount and type of traffic generated daily and at peak hours.

Evidence: Using the 10th Edition of the ITE Trip Generation Manual for Land Use Code 230 for 24 Townhouse Units the following daily and a.m. and p.m. peak hour trip generation values are estimated:

Weekday Trips: 176 (88 in, 88 out) AM Peak Hour: 11 (3 in, 8 out) PM Peak Hour: 13 (8 in, 5 out)

Based on these calculations we find that the proposed development will generate less than 400 vehicle trips per day, thus remaining below the threshold for a traffic impact analysis.

A (16) Hydrogeologic Assessment

Evidence: We are requesting a waiver of the need to provide a hydrogeologic assessment since the project will be served by public water and sewer and the development area will be positioned within areas where the groundwater is expected to be greater than 48" below grade,

A. (18) A lighting plan.

Evidence: Swaney Lighting of Scarborough, Maine has prepared the site lighting plan contained in Attachment E. The plan includes the use of the AAL Universe (UCM2) fixture on a 14 ft mounting height. The UCM2 is similar in style to other fixtures used around parking areas on Factory island.

UNIVERSE®





A (19) Archaeological or Historical Sites

Evidence: See the accompanying response letter from the Maine Historic Preservation Office contained in Attachment A.

Subdivision Plan Review Submission Requirements

In accordance with the City's Article 5 Preliminary Plan of the Subdivision Regulations we offer the following information in support of satisfying the application submission requirements:

- 5.2.1 Location Plan See the accompanying figures contained in Attachment A to this letter.
- 5.2.2 Preliminary Plan A preliminary recording Plat is currently being completed and will be forwarded to you under separate cover.
- 5.2.2 (8) the applicant will have installed various reference stakes in the field within the next two weeks to adequately identify the proposed private drive alignment and approximate building corners of at least 25% of the proposed units.
- 5.2.2 (9) The applicant will coordinate the unit numbering with the E-911 Addressing officer. We will alert the Planning Department once a unit numbering scheme has been established.
- 5.2.2 (15) Street plans and profile. See the accompanying plan and profile sheet for the private drive.
- 5.2.2 (16) Location of improvements The applicant is proposing no Solid waste enclosure area but will require tenants to retain waste and recycling totes in their garages. These will be serviced by a private waste hauler on a weekly basis.
- 5.2.2 (18) See the accompanying response letters from various agencies, contained in Attachment A.
- 5.2.2 (19) See accompanying response letter from the MHPO. We note that their sign off was associated with the previously proposed "Waters" development. We don't believe the current proposal merits revisiting the MHPO for any further signoff.

5.2.3 Accompanying Statements and Data

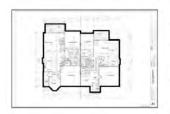
(2) At this time there are no new easements covenants or deed restrictions contemplated for the property. If in the future they are required, the applicant is amenable to a condition of approval that requires submission of the encumbrance language to the City Planning office for review prior to any enactment or recording of documents.



- (3) see the accompanying Determination letter from the Maine Water Company contained in Attachment A.
 - (5) See the accompanying boring and test pit logs from Summit Geoengineering.
- (6) See trip generation above indicating that the proposed 24 Unit Townhouse project will generate less than 200 daily Vehicle trips, thus a traffic impact analysis is not required.
- (8) In accordance with Sec 230-1602.D of the code, the applicant is seeking to pay the Recreational and Open space impact fees which are calculated as follows:
 - Recreational Impact fee = \$469.00 x 3 bedrooms x 24 units = \$33,768.00
 - Open Space Impact Fee = \$195.00 x 3-bedroom x 24 units = \$14,040.00 Total = \$47,808.00

(10) Proof of Financial and Technical Capacity - the accompanying statement contained in Attachment F provides evidence of the applicant's financial status. The applicant fully expects to use a combination of self-financing and lending resources for the financing of the development activity. The applicant has successfully completed 31 residential apartment units in Building 91 on the west side of the island and they are also completing an additional 12 units in building 2. Outside of the State of Maine the applicant has ownership affiliation with Glover Property Management Inc. of Marblehead MA. Additional information on Glover can be found at https://www.gloverproperty.com/. We believe this information should provide satisfactory evidence of the applicant's financial and technical capacity to complete the project.

(13 & 14) The following impervious areas are provided.



4,202 SF IMPERVIOUS FOOTPRINT EACH DUPLEX
x 12 = 50,424 SF TOTAL BUILDING / STRUCTURE IMPERVIOUS (19.4% OF SITE)
+33,100 SF IMPERVIOUS PAVEMENT (ACCESS DR / DRIVEWAY / SIDEWALK)
83,524 SF TOTAL IMPERVIOUS / 259,318 SF TOTAL SITE AREA = 32.2 % OF SITE

SITE / LOT AREA = 259,318 SF (5.95 ACRES)

In addition to this information, we offer the accompanying building elevations and materials for staff and Board consideration.



We look forward to your review of the accompanying materials and trust you will find them sufficient to consider the application satisfactory to allow the Planning Board to find the application is complete and suitable to consider an approval, with conditions as suggested in this letter or otherwise developed by the Planning Department and Board. We look forward to an appearance before the planning board as the earliest availability. As you are aware it is critical that this development proposal be found sufficiently complete within the existing zoning standards so that it will not require transitioning to the proposed zoning that is expected to be enacted in April.

Sincerely,

Gorrill-Palmer Consulting Engineers

Stephen Bushey, PE Senior Project Manager sbushey@gorrillpalmer.com

C: via email

Ted Moore Saco Island Ventures Bernie Saulnier Paul Weinstein Tony Sasso

Attachments:

- A. Agency response letters
- B. CMP Easement
- C. Municipal Review Form
- D. Geotechnical Information
- E. Site Lighting Information
- F. Financial Evidence Personal Account statement

ATTACHMENT A AGENCY LETTERS



STATE OF MAINE DEPARTMENT OF INLAND FISHERIES & WILDLIFE 284 STATE STREET 41 STATE HOUSE STATION AUGUSTA ME 04333-0041

CHANDLER E. WOODCOCK

June 1, 2018

Tim Forrester Atlantic Environmental, LLC 135 River Road Woolwich, ME 04579

RE: Information Request - Factory Island, Saco

Dear Tim:

Per your request received May 9, 2018, we have reviewed current Maine Department of Inland Fisheries and Wildlife (MDIFW) information for known locations of Endangered, Threatened, and Special Concern species; designated Essential and Significant Wildlife Habitats; and inland fisheries habitat concerns within the vicinity of the *Factory Island Project* in Saco.

Our Department has not mapped any Essential Habitats or inland fisheries habitats that would be directly affected by your project.

Endangered, Threatened, and Special Concern Species

Bats

Of the eight species of bats that occur in Maine, the three *Myotis* species are protected under Maine's Endangered Species Act (MESA) and are afforded special protection under 12 M.R.S §12801 - §12810. The three *Myotis* species include little brown bat (State Endangered), northern long-eared bat (State Endangered), and eastern small-footed bat (State Threatened). The five remaining bat species are listed as Special Concern: big brown bat, red bat, hoary bat, silver-haired bat, and tri-colored bat.

While a comprehensive statewide inventory for bats has not been completed, based on historical evidence it is likely that several of these species occur within the project area during migration and/or the breeding season. We recommend that you contact the U.S. Fish and Wildlife Service--Maine Fish and Wildlife Complex (Wende Mahaney, 207-902-1569) for further guidance, as the northern long-eared bat is also listed as a Threatened Species under the Federal Endangered Species Act. Otherwise, our Agency does not anticipate significant impacts to any of the bat species as a result of this project.

Significant Wildlife Habitat

Significant Vernal Pools

At this time, MDIFW Significant Wildlife Habitat (SWH) maps indicate no known presence of SWHs within the project area, which include Waterfowl and Wading Bird Habitats, Seabird Nesting Islands, Shorebird Areas, and Significant Vernal Pools. However, a comprehensive statewide inventory for

Letter to Tim Forrester Comments RE: Factory Island, Saco June 1, 2018

Significant Vernal Pools has not been completed. Therefore, we recommend that surveys for vernal pools be conducted within the project boundary by qualified wetland scientists prior to final project design to determine whether there are Significant Vernal Pools present in the area. These surveys should extend up to 250 feet beyond the anticipated project footprint because of potential performance standard requirements for off-site Significant Vernal Pools, assuming such pools are located on land owned or controlled by the applicant. Once surveys are completed, our Department will need to review and verify any vernal pool data prior to final determination of significance.

This consultation review has been conducted specifically for known MDIFW jurisdictional features and should not be interpreted as a comprehensive review for the presence of other regulated features that may occur in this area. Prior to the start of any future site disturbance we recommend additional consultation with the municipality, and other state resource agencies including the Maine Natural Areas Program, the Maine Department of Marine Resources, and the Maine Department of Environmental Protection in order to avoid unintended protected resource disturbance.

Please feel free to contact my office if you have any questions regarding this information, or if I can be of any further assistance.

Best regards,

John Perry

Environmental Review Coordinator



DEGEIVED MAY 11 2018 DS65-18

135 River Road • Woolwich, ME 04579 tim@atlanticenviromaine.com • 207-837-2199 www.atlanticenviromaine.com

May 5, 2018

Mr. Kirk Mohney Maine Historic Preservation Commission State House Station 65 Augusta, Maine 04333-0065

RE: Maine Department of Environmental Protection (DEP), Natural Resources Protection Act (NRPA) Application for the construction of two marinas, reconstruction and repair of a revetment structure, and associated shoreside structures on behalf of J & B Partners, LLC located at 110 Main Street, Saco, Maine (Tax Map 37, Lot 6).

Dear Mr. Mohney,

J & B Partners (Applicant) are intending to apply for a NRPA permit requesting approval to construct two marinas, replace an existing timber revetment structure with a sheet pile retaining wall, repair an existing granite block retaining wall, and construct shoreside structures associated with a proposed mixed-use development. The project is located at 110 Main Street in Saco, Maine. Please find a copy of a Location Map and Photographs for your review.

If you have any questions or concerns with this project, please feel free to contact me directly at (207) 837 - 2199 or by e-mail at tim@atlanticenviromaine.com. Thank you in advance for your timely comments.

Based on the information submitted, I have concluded that there will be no historic properties affected by the proposed undertaking, as defined by Section 106 of the National Historic Preservation Act.

Consequently, pursuant to 36 CFR 890.4(d)(1), no further Section 106 consultation is required unless additional resources are discovered

Kirk F. Mohney,

Cc:

State Historic Preservation Officer

Maine Historic Preservation Commission

Jennifer Pictou, Aroostook Band of Micmacs

during project implementation pursuant to 36 CFR 800.13.

Donald Soctomah, Passamaquoddy Tribe of Indians, PPR

Susan Young, Houlton Band of Maliseet Indians

Chris Sockalexis, Penobscot Nation

Donald Soctomah, Passamaquoddy Tribe of Indians, IPR

Sincerely,

Atlantic Environmental LLC.

month 14. 1 ander

Tim Forrester, Owner

Environmental Consultants • Wetland Scientists • Specializing in Federal, State, and Local Permitting • Expert Witness



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Maine Fish and Wildlife Service Complex
Ecological Services
Maine Field Office
306 Hatchery Road
East Orland, Maine 04431
207/469-7300 Fax: 207/902-1588



May 11, 2018

Timothy A. Forrester, Owner Atlantic Environmental 135 River Road Woolwich, Maine 04579

Re: Species List Request/Review: Request for Endangered Species Review

Job Location/Number(s): Factory Island, Saco

Dear Mr. Forrester:

We have received your requests for information regarding the occurrence of federally listed threatened and endangered species within the vicinity of the above referenced project/property. In an effort to streamline project reviews in a time of increasing workloads, we are directing all species list requests to our Web site: http://www.fws.gov/mainefieldoffice/Project%20reviews.html. Please click or copy and paste this link into your browser and follow the instructions at Species Lists and Project Reviews. Step-by-step instructions are provided. For communication tower projects follow the self-certification procedure by clicking the link on the Intro page. Using this Web-based process will allow you to print an Official species list response from the Maine Field Office. Once you have received your official species list response please send your entire package to the Federal Agency you are working with, (e.g. Veterans Affairs, USDA or NRCS,). If you have questions, or you are not working with a Federal Agency, then by all means feel free to send us the entire review package with your request for a Federal section 7 review.

As a reminder, Section 9 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) prohibits unauthorized taking* of listed species and applies to both Federal and non-federal activities. Additionally, endangered and threatened species and their habitats are protected by Section 7(a)(2) of the ESA, which requires Federal agencies, in consultation with the U.S. Fish and Wildlife Service (Service), to ensure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. An assessment of the potential direct, indirect, and cumulative effects is required for all Federal actions that may affect listed species. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take"* any listed species without appropriate authorization from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

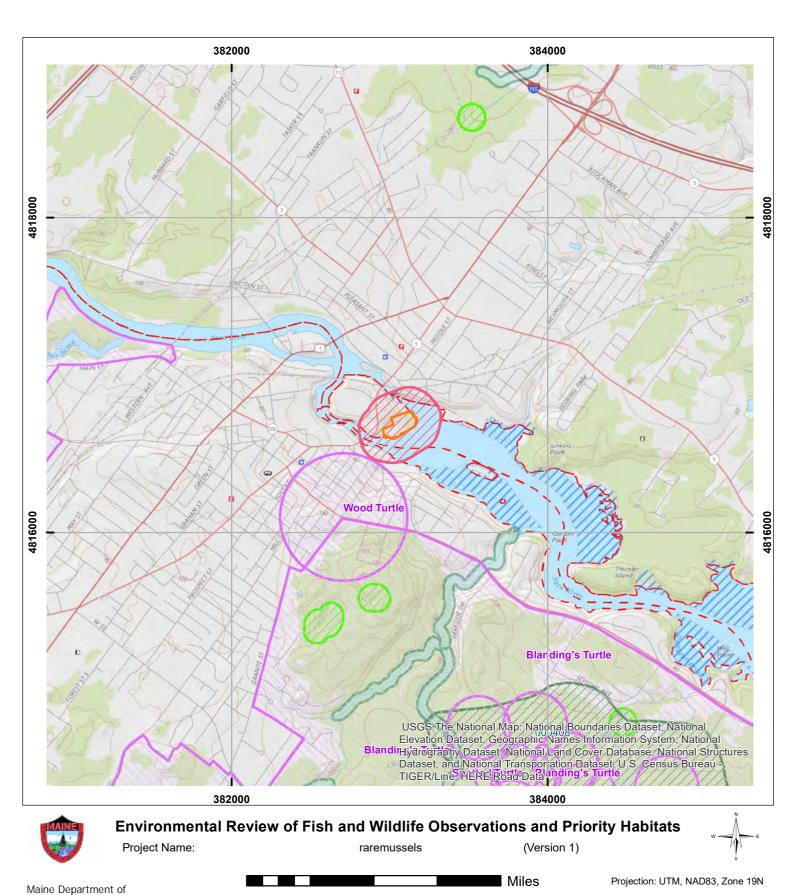
Project construction or implementation should not commence until all requirements of the ESA have been fulfilled. If you have any questions or require further assistance regarding our Web-based **Species List and Project Reviews** process, please contact Shay White at: *Shay_White@fws.gov* or by telephone at 207/902-1568. If you have questions about Canada lynx, please contact Mark McCollough at: *Mark_McCollough@fws.gov* or by telephone at 207/902-1570. For questions about Atlantic salmon, please contact Wende Mahaney at: *Wende_Mahaney@fws.gov* or by telephone at 207/902-1569.

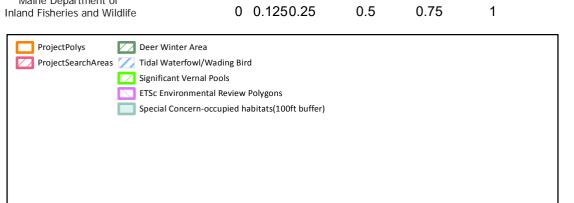
Please note that our office moved from the Orono location in June of 2016 to East Orland and Laury Zicari is no longer an employee of the US Fish and Wildlife Service, as she retired in December of 2015. Please see above address for all future communications.

Thank you.

Anna Harris, Project Leader Maine Field Office Maine Fish & Wildlife Service Complex

*Under the Act and regulations, it is illegal for any person subject to the jurisdiction of the United States to *take* (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife.









STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY

93 STATE HOUSE STATION AUGUSTA, MAINE 04333

WALTER E. WHITCOMB
COMMISSIONER

May 18, 2018

Timothy Forrester Atlantic Environmental 135 River Road Woolwich, ME 04579

Via email: tim@atlanticenvironmental.com

Re: Rare and exemplary botanical features in proximity to: Factory Island Development, Saco, Maine

Dear Mr. Forrester:

I have searched the Natural Areas Program's Biological and Conservation Data System files in response to your request received May 15, 2018 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Saco, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. This lack of data may indicate minimal survey efforts rather than confirm the absence of rare botanical features. You may want to have the site inventoried by a qualified field biologist to ensure that no undocumented rare features are inadvertently harmed.

If a field survey of the project area is conducted, please refer to the enclosed supplemental information regarding rare and exemplary botanical features documented to occur in the vicinity of the project site. The list may include information on features that have been known to occur historically in the area as well as recently field-verified information. While historic records have not been documented in several years, they may persist in the area if suitable habitat exists. The enclosed list identifies features with potential to occur in the area, and it should be considered if you choose to conduct field surveys.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

MOLLY DOCHERTY, DIRECTOR
MAINE NATURAL AREAS PROGRAM



PHONE: (207) 287-8044 FAX: (207) 287-8040 WWW.MAINE.GOV/DACF/MNAP Letter to Atlantic Environmental Comments RE: Factory Island, Saco May 18, 2018 Page 2 of 2

The Natural Areas Program is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. The Natural Areas Program welcomes coordination with individuals or organizations proposing environmental alteration, or conducting environmental assessments. If, however, data provided by the Natural Areas Program are to be published in any form, the Program should be informed at the outset and credited as the source.

The Natural Areas Program has instituted a fee structure of \$75.00 an hour to recover the actual cost of processing your request for information. You will receive an invoice for \$150.00 for two hours of our services.

Thank you for using the Natural Areas Program in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,

Krit Pung

Kristen Puryear | Ecologist | Maine Natural Areas Program

207-287-8043 | kristen.puryear@maine.gov

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Atlantic White Ce	dar					
	SC	S2	G4	1996-06-13	3	Forested wetland
Beach Plum						
	E	S1	G4	1932-09	12	Rocky coastal (non-forested, upland)
	E	S1	G4	1933-06-21	9	Rocky coastal (non-forested, upland)
	E	S1	G4	2006-07-17	3	Rocky coastal (non-forested, upland)
Beach wormwood						
	SC	S1S2	G5T5	2011-10-28	6	<null></null>
Brackish Tidal Ma	arsh					
	<null></null>	S3	GNR	2009-07-29	1	Tidal wetland (non-forested, wetland)
Butterfly Weed						
	PE	SX	G5	1986	1	Dry barrens (partly forested, upland)
Button Sedge						
	SC	S2	G5	1880-09-06	2	<null></null>
	SC	S2	G5	2006-07-12	5	<null></null>
	SC	S2	G5	2000-08-15	3	<null></null>
Clothed Sedge						
	E	S1	G5	2006-06-07	7	Dry barrens (partly forested, upland)
	E	S1	G5	2006-06-16	8	Dry barrens (partly forested, upland)
Coastal Dune-mar	sh Ecosyste	em				
	<null></null>	S3	GNR	2009	1	Tidal wetland (non-forested, wetland), Rocky coastal (non-forested, upland)
Creeping Spike-m	oss					

Creeping Spike-moss

Maine Natural Areas Program Page 1 of 5

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
	E	S2	G5	1920-07-30	6	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
	E	S2	G5	1989-08-14	2	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
Dwarf Glasswort						
	SC	S1	G5	1981-09-16	2	Tidal wetland (non-forested, wetland)
Estuary Bur-mari	gold					
	SC	S3	G4	2009-07-30	35	Tidal wetland (non-forested, wetland)
Freshwater Tidal	Marsh					
	<null></null>	S2	G4?	2009-07-30	1	Tidal wetland (non-forested, wetland)
Hollow Joe-pye W	eed					
	SC	S2	G5?	1989-08-14	2	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
	SC	S2	G5?	2013-09-01	23	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
	SC	S2	G5?	1994-06-06	6	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
	SC	S2	G5?	1989-08-21	1	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
	SC	S2	G5?	1989-08-22	3	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
Horned Pondweed	1					
	SC	S2	G5	1907-08-18	10	Tidal wetland (non-forested, wetland)
	SC	S2	G5	2000-08-28	15	Tidal wetland (non-forested, wetland)
	SC	S2	G5	2007-07-05	19	Tidal wetland (non-forested, wetland)
Lilaeopsis						
	SC	S2	G5	2007-07-05	11	Tidal wetland (non-forested, wetland)

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Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
	SC	S2	G5	2007-08-14	12	Tidal wetland (non-forested, wetland)
	SC	S2	G5	2012-10-21	10	Tidal wetland (non-forested, wetland)
Long's Bulrush						
	T	S2	G2G3	2011-08-12	10	Open wetland, not coastal nor rivershore (non-forested, wetland)
Long-spined Sand	bur					
	PE	SH	G5	1984	1	Rocky coastal (non-forested, upland)
Mudwort						
	SC	S3	G4G5	2009-07-30	35	Tidal wetland (non-forested, wetland)
Pale Green Orchis	8					
	SC	S2	G4?T4Q	2008-06-27	52	Non-tidal rivershore (non-forested, seasonally wet), Open wetland, not coastal nor rivershore (non-forested, wetland)
	SC	S2	G4?T4Q	2008-06-27	53	Non-tidal rivershore (non-forested, seasonally wet), Open wetland, not coastal nor rivershore (non-forested, wetland)
Parker's Pipewort						
	SC	S3	G3	2012-10-21	33	Tidal wetland (non-forested, wetland)
Pendulous Bulrus	h					
	SC	S2	G5	2008-06-28	8	Open wetland, not coastal nor rivershore (non-forested, wetland),Old field/roadside (non-forested, wetland or upland)
Pitch Pine Bog						
	<null></null>	S2	G3G5	1996-06-13	4	Forested wetland, Coastal non-tidal wetland (non-forested, wetland)
Pitch Pine Dune V	Voodland					
	<null></null>	S1	G2	2014-05-08	8	Dry barrens (partly forested, upland)
Pocket Swamp						
	<null></null>	S2	G5	2014-05-08	4	Forested wetland, Hardwood to mixed forest (forest, upland)
	<null></null>	S2	G5	2004	18	Forested wetland, Hardwood to mixed forest (forest, upland)

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Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Pygmyweed						
	SC	S2S3	G5	2009-07-29	25	Open water (non-forested, wetland)
	SC	S2S3	G5	2007-07-05	28	Open water (non-forested, wetland)
Raised Level Bog	Ecosystem					
	<null></null>	S4	GNR	2006-07-12	3	Forested wetland, Open wetland, not coastal nor rivershore (non-forested, wetland)
Red Maple Swamp	o					
	<null></null>	S5	G3G5	2007-06-05	17	Forested wetland
Salt-hay Saltmars	h					
	<null></null>	S3	G5	2009	27	Tidal wetland (non-forested, wetland)
	<null></null>	S3	G5	2010-10-14	12	Tidal wetland (non-forested, wetland)
Saltmarsh False-fe	oxglove					
	SC	S3	G5	1982	12	Tidal wetland (non-forested, wetland)
	SC	S3	G5	1982	9	Tidal wetland (non-forested, wetland)
	SC	S3	G5	2006-07-17	18	Tidal wetland (non-forested, wetland)
Sassafras						
	SC	S2	G5	2006-07-17	16	Hardwood to mixed forest (forest, upland),Old field/roadside (non-forested, wetland or upland)
Schreber's Wood-a	aster					
	PE	SX	G4	1894-09	1	Rocky coastal (non-forested, upland)
Slender Blue Flag						
	T	S2	G4G5	1879-08	4	Tidal wetland (non-forested, wetland)
	Т	S2	G4G5	1995-07-18	18	Tidal wetland (non-forested, wetland)
Small Bood Chag						

Small Reed Grass

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Rare and Exemplary Botanical Features within 4 miles of Project: Factory Island Development, Saco, Maine

G. N	State	State	Global	Date Last	Occurrence	W. 1.1.
Common Name	Status	Rank	Rank	Observed	Number	Habitat
	SC	S3	G5	2000-08-15	12	Old field/roadside (non-forested, wetland or upland)
	SC	S3	G5	2006-08-08	14	Old field/roadside (non-forested, wetland or upland)
Smooth Winterber	rry Holly					
	SC	S3	G5	2012-10	44	Forested wetland
	SC	S3	G5	1979	13	Forested wetland
	SC	S3	G5	2009-07-05	39	Forested wetland
	SC	S3	G5	2004	36	Forested wetland
	SC	S3	G5	2011-10-28	30	Forested wetland
Southern Slender	Ladies'-tre	sses				
	PE	SH	G5T4T5	1918-08-27	1	Dry barrens (partly forested, upland)
Spongy-leaved Ar	rowhead					
	SC	S3	G5T4	2012-10-21	42	Tidal wetland (non-forested, wetland)
Stiff Arrowhead						
	SC	S2	G5	2006-06-16	15	Tidal wetland (non-forested, wetland)
Sweet Pepper-bus	sh					
	SC	S2	G5	1917-09	9	Hardwood to mixed forest (forest, upland), Forested wetland
Tidal Marsh Estua	ary Ecosyste	em				
	<null></null>	S3	GNR	2010-10-14	4	Tidal wetland (non-forested, wetland)
Water Pimpernel						
	SC	S3	G5T5	2012-10-21	26	Tidal wetland (non-forested, wetland)

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STATE RARITY RANKS

- Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
- Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- **S3** Rare in Maine (20-100 occurrences).
- **S4** Apparently secure in Maine.
- S5 Demonstrably secure in Maine.
- SU Under consideration for assigning rarity status; more information needed on threats or distribution.
- **SNR** Not yet ranked.
- **SNA** Rank not applicable.
- S#? Current occurrence data suggests assigned rank, but lack of survey effort along with amount of potential habitat create uncertainty (e.g. S3?).
- **Note**: **State Rarity Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines State Rarity Ranks for animals.

GLOBAL RARITY RANKS

- G1 Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extinction.
- G2 Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- **G3** Globally rare (20-100 occurrences).
- **G4** Apparently secure globally.
- **G5** Demonstrably secure globally.
- **GNR** Not yet ranked.
- **Note:** Global Ranks are determined by NatureServe.

STATE LEGAL STATUS

- Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's **Endangered** and **Threatened** plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.
- **E** ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future; or federally listed as Endangered.
- THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

NON-LEGAL STATUS

- SC SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.
- PE Potentially Extirpated; Species has not been documented in Maine in past 20 years or loss of last known occurrence has been documented.

ELEMENT OCCURRENCE RANKS - EO RANKS

Element Occurrence ranks are used to describe the quality of a rare plant population or natural community based on three factors:

- <u>Size</u>: Size of community or population relative to other known examples in Maine. Community or population's viability, capability to maintain itself.
- <u>Condition</u>: For communities, condition includes presence of representative species, maturity of species, and evidence of human-caused disturbance. For plants, factors include species vigor and evidence of human-caused disturbance.
- <u>Landscape context</u>: Land uses and/or condition of natural communities surrounding the observed area. Ability of the observed community or population to be protected from effects of adjacent land uses.

These three factors are combined into an overall ranking of the feature of **A**, **B**, **C**, or **D**, where **A** indicates an **excellent** example of the community or population and **D** indicates a **poor** example of the community or population. A rank of **E** indicates that the community or population is **extant** but there is not enough data to assign a quality rank. The Maine Natural Areas Program tracks all occurrences of rare (S1-S3) plants and natural communities as well as A and B ranked common (S4-S5) natural communities.

Note: Element Occurrence Ranks are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines Element Occurrence ranks for animals.

Visit our website for more information on rare, threatened, and endangered species! http://www.maine.gov/dacf/mnap

ATTACHMENT B CMP EASEMENT



FORECLOSURE DEED UNDER POWER OF SALE

Joan M. Kurker, an individual having a mailing address of 2500 Mystic Valley Parkway, Unit 902, Medford, County of Middlesex, and Commonwealth of Massachusetts, holder of a mortgage from J&B Partners, LLC dated November 16, 2017 to Joan M. Kurker and recorded in the York County Registry of Deeds on November 17, 2017 at Book 17606, Page 936, by the power conferred by such mortgage and every other power, for Eleven Thousand AND 00/100 (\$11,000.00) DOLLARS paid, grants to Saco Island Ventures, LLC, of 8 Doaks Lane, Marblehead, MA 01945, the premises and all personal property conveyed by said mortgage.

IN WITNESS WHEREOF, Joan M. Kurker has caused this instrument to be executed this day of August, 2019.

Joan M. Kurker

By: Wywkor

STATE OF MASSACHUSETTS COUNTY OF MIDDLESEX

8/6/ ,2019

Then personally appeared the above-named Joan M. Kurker, as aforesaid, and acknowledged the foregoing instrument to be her free act and deed in her said capacity.

Before me.

Notary Public

Ð ,

EXHIBIT A

A certain lot or parcel of land together with the buildings and improvements thereon, situated on Factory Island in Saco, York County, Maine, and more particularly bounded and described as follows, and more particularly depicted on the plan entitled PARTIAL ALTA/ACSM LAND TITLE SURVEY, sheet S2, dated January 25, 2007, revised August 20, 2007, prepared by Oak Engineers (the "ALTA East Plan"):

Beginning at an iron rod that is located on the northeasterly side of the granite seawall along the easterly side of the west branch of the Saco River at the southerly corner of land now or formerly of Central Maine Power;

Thence North 10° 33' 00" West a distance of 168.88' to a point;

Thence North 50° 02' 15" East a distance of 235.65' to a point near an iron rod;

Thence North 29° 29' 30" West a distance of 139.35' to an iron rod with cap #1201;

Thence North 71° 37' 30" East a distance of 196.49' to the base of a bent iron bolt:

Thence continuing N 71° 37' 30" East to the thread of the east branch of the Saco River.

Thence southerly along the thread of the east branch of the Saco River.

Thence westerly by the thread of the west branch of the Saco River to a point located S 10° 33' 00" East of the point of beginning:

Thence N 10° 33' 00" West to the point of beginning.

Containing approximately 5.84 acres of land to the bank of the Saco River.

Together with a non-exclusive easement over that portion of land now of Central Maine Power Company more particularly bounded and described as the "Proposed Easement, Central Maine Power Co. to Island Associates" on the plan entitled PLAN SHOWING PROPOSED LEASES AND EASEMENT ON FACTORY ISLAND, SACO, MAINE, recorded in the York County Registry of Deeds in Plan Book 194, Page 2, and as set forth in Instrument of Conveyance and Release Agreement made by and among Central Maine Power Company and Island Associates, et al. effective August 7, 1986 and recorded in said registry in Book 5481, Page 15.

For source of title, reference is made to a quit claim deed from Saco Island East, LLC to J&B Partners, LLC dated August 8, 2017, and recorded in said registry in Book 17534, Page 286.



QUITCLAIM DEED WITH COVENANT

KNOW ALL PERSONS BY THESE PRESENTS

That **SACO ISLAND EAST, LLC**, a limited liability company formed under the laws of the State of Maine with a mailing address of 2 Main Street, Topsham, ME 04086 ("Grantor"), for consideration paid, grants to **J & B PARTNERS, LLC**, a limited liability company formed under the laws of the State of Maine with a mailing address of 24 North Ave, Saco ME 04072, with Quitclaim Covenant, all of Grantor's interest in the property located at 110 Main Street, the City of Saco, County of York, State of Maine, and buildings and improvements thereon, as more particularly described as follows:

A certain lot or parcel of land together with the buildings and improvements thereon, situated on Factory Island in Saco, York County, Maine, and more particularly bounded and described as follows, and more particularly depicted on the plan entitled PARTIAL ALTA/ACSM LAND TITLE SURVEY, sheet S2, dated January 25, 2007, revised August 20, 2007, prepared by Oak Engineers (the "ALTA East Plan"):

Beginning at an iron rod that is located on the northeasterly side of the granite seawall along the easterly side of the west branch of the Saco River at the southerly corner of land now or formerly of Central Maine Power;

Thence N 10°33'00" W a distance of 168.88' to a point;

Thence N 50°02'15" E a distance of 235.65' to a point near an iron rod;

Thence N 29°29'30" W a distance of 139.35' to an iron rod with cap #1201;

Thence N 71°37'30" E a distance of 196.49' to the base of a bent iron bolt;

Thence continuing N 71°37'30" E to the thread of the east branch of the Saco River;

Thence southerly along the thread of the east branch of the Saco River to the intersection with the thread of the west branch of the Saco River;

Thence westerly by the thread of the West Branch of the Saco River to a point located S 10°33'00" E of the point of the beginning.

Thence N 10°33'00" W to the point of beginning.

Containing approximately 5.84 acres of land to the bank of the Saco River.

Together with a Non-exclusive easement over that portion of land now of Central Maine Power Company more particularly bounded and depicted as the "Proposed Easement, Central Maine Power Co. to Island Associates" on the plan entitled PLAN SHOWING PROPOSED LEASES AND EASEMENT ON FACTORY ISLAND, SACO, MAINE, recorded in the York County Registry of Deeds in <u>Plan Book 194, Page 2</u>, and as set forth in Instrument of Conveyance and Release Agreement made by and among Central Maine Power Company and Island Associates, et al. effective August 7, 1986 and recorded in the said Registry of Deeds in Book 5481, Page 15.



Meaning and intending to convey the same premises described in the Quitclaim Deed from Cutts Island Group, dated October 1, 2007, and recorded in York Registry of Deed in Book 15270, Page 401.

The above-described premises are also conveyed together with and subject to the grading easement given by Central Maine Power Company to Saco Island East, LLC, dated October 1, 2007, recorded in said Registry of Deeds in Book 15270, Page 466.

Witness my hand and seal this 8th day of August, 2017

SACO ISLAND EAST, LLC

By: Saco-Island, LP, Sole Member

By: Kevin J. Mattson

Manager of SI Development, LLC General Partner of Saco Island, LP

STATE OF MAINE YORK, ss.

August 8, 2017

Then personally appeared before me the above-named Kevin J. Mattson, Manager of SI Development, LLC, General Partner of Saco Island, LP, sole Member of Saco Island East, LLC, and acknowledged the foregoing instrument to be his free act and deed in his said capacity.

Notary Public Attorney at Law

ATTACHMENT C MUNICIPAL REVIEW FORM

DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Land and Water Quality

State House Station 17 Augusta, Maine 04333 Tel: (207) 287-2111

FOR DEP USE	
#L-	
Date Received	

NOTIFICATION OF APPLICATION ACCEPTANCE MUNICIPAL REVIEW OF DEVELOPMENT

(38 M.R.S.A. Section 489-A)

This form is to be used by a registered municipality to notify the Department upon the acceptance of an application for review pursuant to 38 M.R.S.A. Section 489-A. This form must be received by the Department within 14 days of acceptance of an application. The municipality must also submit one copy of the project application and one copy of the record of review and action.

If the application which is the subject of this notice should subsequently be amended during the review process, this form should also be used to submit notice to the Department of the amendment.

Municipality: Saco
Contact PersonBob Hamblen - City Planner
Address and Phone:300 Main Street; Saco, ME_04072; 207.282.3487
Project Applicant:Saco Island Ventures LLC - Attn: Ted Moore
Address and Phone:8 Doaks Lane Marblehead MA - 01945; 617-901-8311
Title of Project: Saco Harborside at Factory Island East
Is there a pre-existing DEP # for this project_Yes_ IF yes, what is it?_L-23633-87-B-N
Date Accepted as Complete By Municipality:
I. Type of Project for which permit is sought: (Check one)
XSubdivisions as described in Section 482, subsection 5 of more than 20 acres but less than 100 acres
Authority to enforce the Performance Standards for Quarries, 38 M.R.S.A. §490-DD.
Authority to enforce the Performance Standards for Excavations for Borrow, Clay, Topsoil or Silt, 38
M.R.S.A §490-J.
A project generating 100 to 200 passenger car equivalents at peak hour.

- II Description of Project (Include number of units or lots, parcel size, footprint, etc.)
 Proposed mixed use site development at Main Street in Saco, ME. The 5.95+ acre property is identified on Tax Map 037/Lot 006 and 0.80 acre;
 Tax Map 037/Lot 5-1 (leased by CMP) with a total acreage of 6.75 acres.
 - 12 duplex townhouse structures containing a total of 24 three-bedroom units, private access drive, utilities and drainage infrastructure.

III. Submit as attachments to this form:

- A. One copy of complete application filed with municipality (include site plans);
- B. Identification of any outside review agents or consultant who will be performing reviews of any aspect of the application;
- C. One copy of the legal notices served by the municipality.

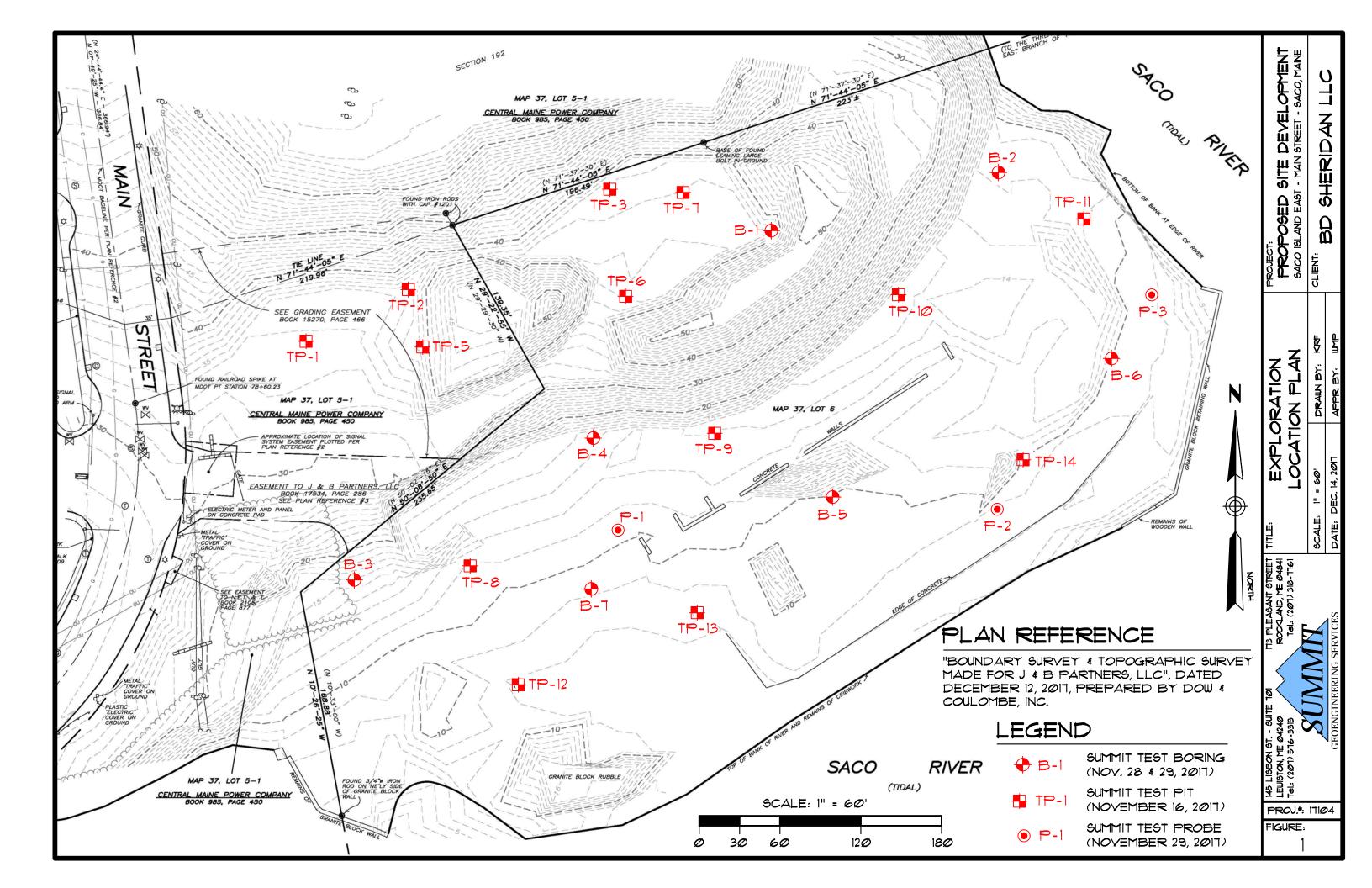
NOTE: APPLICANT IS ADVISED TO REVIEW THE NATURAL RESOURCES PROTECTION ACT 38 M.R.S.A. SECTIONS 480-A THROUGH 480-U (N.R.P.A.) TO ENSURE CONSISTENCY WITH THAT LAW. THE MUNICIPALITY'S DELEGATED REVIEW AUTHORITY PURSUANT TO 38 M.R.S.A. SECTION 489-A DOES NOT EXTEND TO THE N.R.P.A. IF AN N.R.P.A. PERMIT IS NECESSARY IT MUST BE OBTAINED FROM THE DEPARTMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

Town or City of:	DATE:	
By:		
Print Name:		
Tillit Ivaliic.		
and Title:		

ATTACHMENT D GEOTECHNICAL INFORMATION

ATTACHMENT J

GEOTECHNICAL EXPLORATION MAP AND BORING LOGS





EXPLORATION COVER SHEET

The exploration logs are prepared by the geotechnical engineer from both field and laboratory data. Soil descriptions are based upon the Unified Soil Classification System (USCS) per ASTM D2487 and/or ASTM D2488 as applicable. Supplemental descriptive terms for estimated particle percentage, color, density, moisture condition, and bedrock may also be included to further describe conditions.

Drilling and Sampling Symbols:

SS = Split Spoon Sample Hyd = Hydraulic Advancement of Drilling Rods

UT = Thin Wall Shelby Tube Push = Direct Push of Drilling Rods

SSA = Solid Stem Auger

HSA = Hollow Stem Auger

WOH = Weight of Hammer

WOR = Weight of Rod

RW = Rotary Wash

PI = Plasticity Index

RV = Shear Vano

SV = Shear Vane LL = Liquid Limit

PP = Pocket Penetrometer W = Natural Water Content

RC = Rock Core Sample USCS = Unified Soil Classification System

FV = Field Vane Shear Test Su = Undrained Shear Strength
PS = Concrete Punch Sample Su(r) = Remolded Shear Strength

Water Level Measurements:

Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable groundwater levels. In impervious soils, the accurate determination of groundwater elevations may not be possible, even after several days of observations. Groundwater monitoring wells may be required to record accurate depths and fluctuation.

Gradation Description and Terminology:

Boulders: Over 12 inches Trace: Less than 5% Cobbles: 12 inches to 3 inches Little: 5% to 15% Gravel: 3 inches to No.4 sieve 15% to 30% Some: Sand: No.4 to No. 200 sieve Silty, Sandy, etc.: Greater than 30%

Silt: No. 200 sieve to 0.005 mm

Clay: less than 0.005 mm

Density of Granular Soils and Consistency of Cohesive Soils:

CONSISTENCY OF CO	HESIVE SOILS	DENSITY OF GRANULAR SOILS			
SPT N-value blows/ft	Consistency	SPT N-value blows/ft	Relative Density		
0 to 2	Very Soft	0 to 4	Very Loose		
2 to 4	Soft	5 to 10	Loose		
5 to 8	Firm	11 to 30	Compact		
9 to 15	Stiff	31 to 50	Dense		
16 to 30	Very Stiff	>50	Very Dense		
>30	Hard				

Vehicle: Model: Method: Hammer St Depth	aff: LLING	Summit Geoer	200000000000000000000000000000000000000			Project: Location:	Proposed Deve		Boring #: Project #:	17104			
Driller: Summit Sta DRIL Vehicle: Model: Method: Hammer St Depth	aff: LLING	Summit Geoer Craig Coolidge	200000000000000000000000000000000000000			,			— 1				
Driller: Summit Sta DRIL Vehicle: Model: Method: Hammer St Depth	aff: LLING	Summit Geoer Craig Coolidge	200000000000000000000000000000000000000	GEOENGINEERING SERVICES			Main Sueet (So	Sheet:	1 of 1				
Driller: Summit Sta DRIL Vehicle: Model: Method: Hammer St Depth	aff: LLING	Craig Coolidge	ng Co: Summit Geoengineering Services, Inc.			City, State:	Saco, Maine	,	Chkd by:				
Driller: Summit Sta DRIL Vehicle: Model: Method: Hammer St Depth	aff: LLING	Craig Coolidge	er: Craig Coolidge, P.E.			Boring Elevation		43.0 ft. +/-					
DRIL Vehicle: Model: Method: Hammer St Depth	aff: LLING	Mat Hardison,				Reference:	Reference: Dow and Coulombe, Inc. plan dated December 12, 2017						
Vehicle: Model: Method: Hammer St Depth			E.I., Brett De	eyling, P.E.		Date started: 11/29/2017 Date Completed: 11/29/2017							
Model: Method: Hammer St Depth	AM	METHOD	S	AMPLER		ESTIMATED GROUND WATER DEPTH							
Method: Hammer St Depth	AM	Tracked	Length:	24" SS		Date	eference						
Hammer St Depth		S Power Probe	4	2"OD/1.5"	'ID	11/29/2017	-		None encountered				
Depth			Hammer:	140 lb									
· —	Style:	Auto	Method:	ASTM D15	_]		0 1 1 1/				
		D (D (i)	D 11 (61)	Elev.			SAMPL		Geological/	Geological			
` '	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)	D 11 0	DESCRIP		Test Data	Stratum			
1	S-1	24/8	0 to 2	3 11	43'		,	agments, little Gravel cs (rootlets, branches),		FILL			
'+				27		humid, dense, M		cs (rootiets, branches),		(BLASTED ROCK)			
2				16	1	numu, uense, w	IL.			(DLASTED ROCK)			
	S-2	24/3	2 to 4	30/6"		Cobble pieces, re	ock fragments						
3			++ -		1		· · · - g · · · · · · · ·						
+					1	Cobbles/debris e	encountered dur	ing augering					
4								- -					
T													
5					1								
<u> </u>	S-3	24/0	5 to 7	2	1			due to tilted spoon,					
6				4/2"	1	likely kicked off l	by Cobble						
7						Unable to compl	o ougor oduona	ing through Boulders					
′+						and Cobbles, ver							
8						l l	y derise drilling						
<u> </u>					1								
9													
10													
11						↓							
10					24.01		al Alexander on alexa	CII - + 401					
12					31.0	Auger penetrate	a through rock	fill at 12					
13										GLACIAL TILL			
13										GENOINE TILE			
14					1								
15													
T	S-4	24/22	15 to 17	4]	Olive brown fine	to medium SAN	ND, little to some					
16				23	1			per 8", moderately					
				20		mottled, occasio	nal Cobble piec	es, humid, dense, SM					
17				19	26.0'	End of Deal	17.0 5	-£					
10				1	1	End of Boring at	i/.u feet, no re	eiusai					
18				1	1								
19					1								
··· 				1	1								
20					1								
T													
21													
L				1	1								
22					1								
\vdash				1	1								
Cronules 1	Colle	C-L	ro Soils	0/ 0	ocition	NOTES:	DD = Dook=+ D · ·	otromotor MC Maint	Content	Soil Moisture Caraditi			
Granular S Blows/ft. D		Cohesiv Blows/ft.	e Soils Consistency	% Comp ASTM D		INOTES:		etrometer, MC = Moisture , PI = Plastic Index, FV =		Soil Moisture Condition Dry: S = 0%			
	. Loose	<2	V. soft	ASTIVIL	/ 2 40/	Bedrock Joints	•	, PI = Plastic Index, FV = Shear Strength, Su(r) = Re		Humid: $S = 1 \text{ to } 25\%$			
	Loose	2-4	V. Soft	< 5%	Trace	Shallow = 0 to 35		onour ourngur, outry = Re	andiaca dilea dilengili	Damp: S = 26 to 50%			
	ompact	5-8	Firm	5-15%		Dipping = 35 to 55	•			Moist: $S = 51 \text{ to } 75\%$			
	Dense	9-15	Stiff	15-30%		Steep = 55 to 90 c	•			Wet: S = 76 to 99%			
	. Dense		V. Stiff	> 30%						Saturated: S = 100%			
		>30	Hard			Boulders = diamet	er > 12 inches, C	obbles = diameter < 12 inc	ches and > 3 inches				

		- 1				S	OIL BORII	NG LOG	Boring #:	B-2		
		CILA	MAIT			Project:	Proposed Deve	elopment	Project #:	17104		
		SOLAI	IVIII			Location:	Main Street (Sa	aco Island)	Sheet:	1 of 1		
		GEOENGINEERI	NG SERVICES			City, State:	Saco, Maine		Chkd by:			
Drilling (Co:	Summit Geoei	ngineering Se	rvices, Inc		Boring Elevation:		11.8 ft. +/-				
Driller:		Craig Coolidge						ombe, Inc. plan dated D				
Summit		Mat Hardison,				Date started: 11/29/2017 Date Completed: 11/29/2017						
	ILLING	METHOD		AMPLER		ESTIMATED GROUND WATER DEPTH						
Vehicle:		Tracked	Length:	24" SS		Date	Depth	Elevation		ference		
Model: Method:	AIVI	S Power Probe 2.25" HSA	Diameter: Hammer:	2"OD/1.5"	שו	11/29/2017	13.0 ft.	-1.2 ft. +/-	Observed on soil sa	mples and augers		
Hammer	Style	Auto	Method:	140 lb ASTM D15	586							
Depth	Style.	Auto	wicti iou.	NOTIVI DIC	Elev.		SAMPL	F	Geological/	Geological		
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)		DESCRIPT		Test Data	Stratum		
(11)	S-1	24/10	0 to 2	2	()	Dark brown to bl		ILT, frequent rootlets				
1				3			•	Sand, trace Coal pieces,				
_				3		humid, loose, ML	-	•		FILL		
2_				4	9.8'	l						
	S-2	24/14	2 to 4	5				ed), intermixed Gravel	PP = 3,500 psf			
3_				6			ly mottled, sligh	ntly blocky, humid, stiff,	to 6,000 psf			
				6		CL						
4_				7								
5												
J_	S-3	24/16	5 to 7	2		Similar to above	, moist, modera	ately mottled, increasing	PP = 1,500 psf			
6				3				seams at 5.8' depth	, , , , , , , , , , , , , , , , , , , ,			
_				5		Gravel seam at 6	5.5'	•				
7_				5	4.8'	 			_			
	S-4	24/18	7 to 9	2				dium to coarse Sand,				
8_				6		trace Clay, slight	ly mottled, moi	ist, firm to stiff, ML	PP = 3,000 psf			
9				5 8								
9_				8								
10												
	S-5	24/12	10 to 12	3	1.3'	Similar to above,	. trace to little (Clav				
11				18				little to some Silt, trace				
_				12		Clay, moist, dens						
12_				12						GLACIAL TILL		
	S-6	24/12	12 to 14	10		Similar to above,	, wet, some Silt	:, SM				
13_				22	1.0							
1.4				24 50/1"	-1.8	End of Doring of	12 / foot Cnor	on and Auger Refusal		PROBABLE BEDROCK		
14_				30/1		End of Borning at	13.0 feet, 3pot	on and Auger Refusal		PRODABLE BEDROCK		
15												
_												
16_												
17_												
40												
18_												
19												
'′-												
20												
_												
21_												
22_												
Granula	r Soils	Cohesiv	re Soils	% Comp	osition	NOTES:	PP = Pocket Pen	etrometer, MC = Moisture	Content	Soil Moisture Condition		
Blows/ft.		Blows/ft.	Consistency	ASTM D				t, PI = Plastic Index, FV =		Dry: S = 0%		
	V. Loose	<2	V. soft			1	•	Shear Strength, Su(r) = R		Humid: S = 1 to 25%		
5-10	Loose	2-4	Soft	< 5% 7	Ггасе	Shallow = 0 to 35			-	Damp: S = 26 to 50%		
11-30	Compac	5-8	Firm	5-15%	Little	Dipping = 35 to 55	-			Moist: S = 51 to 75%		
	Dense	9-15	Stiff	15-30%		Steep = 55 to 90 c	degrees			Wet: S = 76 to 99%		
31-50												
	V. Dense	16-30 >30	V. Stiff Hard	> 30%	With	Davidor: "	. 10 ! !	Cobbles = diameter < 12 in	anhan and O.S.	Saturated: S = 100%		

						SC	OIL BORIN	NG LOG	Boring #:	B-3	
		CILA	MAIT				Proposed Deve		Project #:	17104	
		SUM	MIL				Main Street (Sa		Sheet:	1 of 2	
		GEOENGINEERI	NG SERVICES			City, State:	Saco, Maine		Chkd by:		
Orilling (Co:	Summit Geoe	ngineering S	ervices, Inc).	Boring Elevation:		15.8 ft. +/-			
Oriller:		Craig Coolidge				Reference: Dow and Coulombe, Inc. plan dated December 12, 2017					
Summit		Mat Hardison,	1			Date started:		Date Completed:	11/28/2017		
		METHOD		AMPLER		5.		ESTIMATED GROUND V		-	
/ehicle: Model:		Tracked S Power Probe	Length:	24" SS 2"OD/1.5'	ייור	Date 11/28/2017	Depth 14.3 ft.	Elevation 1.5 ft. +/-		ference	
/louer: /lethod:		2.25" HSA	Hammer:	2 OD/1.5 140 lb	טו	11/28/2017	7.4 ft.	8.4 ft. +/-	30' of Augers in hole Augers pulled (10:3		
Hammer		Auto	Method:	ASTM D1	586	11/20/2017	7.411.	0.411. +/-	Augers pulled (10.5	o Aivi)	
Depth					Elev.		SAMPL	E	Geological/	Geological	
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)		DESCRIPT		Test Data	Stratum	
, ,	S-1	24/8	0 to 2	5		Light brown fine	Gravelly SAND	, little Silt, occasional			
1_				8		Asphalt pieces, B	rick fragments	in spoon tip (halted			
				11		spoon advance),	humid, compa	ct, SP-SM		FILL	
2_				3/0"							
							01. 01.1				
3_			1	1	-	3		h, brick fragments and			
4	-			1	-	Gravel/Cobble pi	eces in spoils				
4_					-						
5				1	1						
Ŭ_	S-2	24/20	5 to 7	4	1	Dark gray to blad	k SILT, little Cl	lay and Sand, frequent	PP = 1,000 psf		
6_				7		5 5		al Wood (lumber) and	to 3,000 psf		
_				6		black Ash, compa	act, humid, ML	•			
7_				5	8.8'	<u> </u>			.		
	S-3	24/8	7 to 9	4	_			ce intermixed Sand and			
8_				6	_	Gravel, Coal in bo	ottom 4", firm t	to stiff, humid, CL	DD		
9				3	_				PP = 5,000 psf to 6,000 psf		
9_				3					ιο 6,000 μει		
10											
-	S-4	24/24	10 to 12	WH	5.3'	Black-stained SIL	T. little Sand.	trace Clay and Gravel			
11				1				Sand, moist to wet,	PP = 500 psf		
_				WH		very soft, ML	,		·	GLACIAL MARINE	
12_				1							
	S-5	24/24	12 to 14	3			,	me fine to medium	PP = 8,000 psf		
13_				5		Sand, stiff, wet, s	slightly mottled	I, CL	to >9,000 psf		
1.4				7							
14_				/							
15											
	S-6	24/20	15 to 17	4		Olive gray Clayey	SAND, little to	some Silt, heavily	PP = 4,500 psf		
16_				5		mottled, wet, loo		,	to 7,000 psf		
				4							
17_				6	_						
	S-7	24/20	17 to 19	4	1		trace to little (Gravel, occasional Sand	PP = 2,000 psf		
18_	-			4 5	1	seam			to 3,000 psf		
19				7	1						
17_					1						
20				 	-4.2'						
_	S-8	24/16	20 to 22	WH]	Olive brown Silty	fine to mediur	n SAND, very loose, wet	,		
21_				1	-5.2'	heavily mottled,			.		
_				2	_	Olive brown Silty	CLAY, heavily	mottled, firm, CL	PP = 2,500 psf		
22_				3	_				to 3,500 psf		
				1	1						
0	6 "			01.0	121	NOTEC	DD D 1 : 7		0	College College	
Granula		Cohesiv		% Comp				etrometer, MC = Moisture		Soil Moisture Condition	
	Density V. Loose		V. soft	ASTM E	J248/			, PI = Plastic Index, FV = I		Dry: $S = 0\%$ Humid: $S = 1 \text{ to } 25\%$	
0-4 5-10	V. Loose	e <2 2-4	v. sort Soft	< 5%	Trace	Shallow = 0 to 35		Shear Strength, Su(r) = Re	anolueu shear strength	Damp: $S = 1 \text{ to } 25\%$	
	Compac		Firm	5-15%		Dipping = 35 to 55	•			Moist: $S = 51 \text{ to } 75\%$	
31-50	Dense	9-15	Stiff	15-30%		Steep = 55 to 90 d	•			Wet: $S = 76 \text{ to } 99\%$	
	V. Dense		V. Stiff	> 30%			-			Saturated: S = 100%	
		>30	Hard			Boulders = diamete	er > 12 inches, C	Cobbles = diameter < 12 ir	iches and > 3 inches		
230 Hard						Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200					

		N				S	OIL BORII	NG LOG	Boring #:	B-3		
1		CILLA	MAIT			Project:	Proposed Deve	elopment	Project #:	17104		
i		301/1	IVIII			Location:	Main Street (Sa	aco Island)	Sheet:	2 of 2		
		GEOENGINEERI	NG SERVICES			City, State:	Saco, Maine		Chkd by:			
Drilling Co	o:	Summit Geoer	ngineering Se	ervices, Inc		Boring Elevation	:	15.8 ft. +/-				
Driller:	_	Craig Coolidge				Reference: Dow and Coulombe, Inc. plan dated December 12, 2017						
Summit S		Mat Hardison,				Date started: 11/28/2017 Date Completed: 11/28/2017						
	ILLING	METHOD		AMPLER		Data	Donath	ESTIMATED GROUNI		C		
Vehicle: Model:	A N A S	Tracked S Power Probe	Length:	24" SS 2"OD/1.5"	חוי	Date 11/28/2017	Depth 14.3 ft.	Elevation 1.5 ft. +/-	30' of Augers in hole	ference (10:00 AM)		
Method:	AIVI		Hammer:	140 lb	טו	11/28/2017	7.4 ft.	8.4 ft. +/-	Augers pulled (10:3			
Hammer	Style:	Auto	Method:	ASTM D15	586				Tragera pamea (rese			
Depth			•		Elev.		SAMPL	E	Geological/	Geological		
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)		DESCRIPT	TION	Test Data	Stratum		
23										01.40141.4451415		
24										GLACIAL MARINE		
24												
25												
	S-9	24/6	25 to 27	5		Olive brown fine	to medium SA	ND, trace Silt, wet,				
26				7	-12.2'	compact, SP						
]				8		Gray Gravelly SI	LT, little Sand,	trace Clay, wet,				
27				10		compact, ML				GLACIAL TILL		
28												
20												
29												
1												
30						Augered to 30' d	lepth, unable to	sample due to				
						running sands						
31												
32					-16.5'							
+					10.0	End of Boring at	32.3 feet. Aug	er Refusal		PROBABLE BEDROCK		
33							3					
Ţ												
34												
25												
35_												
36												
1												
37												
38												
39												
37												
40												
[
41												
40												
42												
43												
"+												
44												
C	- C - 'I	0.1.	o Call-	0/ 0		NOTEC	DD D-1-1-5	-1	Cambant	Call Malatana C. 101		
Granular Blows/ft.		Cohesiv Blows/ft.	e Soils Consistency	% Comp ASTM D				etrometer, MC = Moistu , PI = Plastic Index, FV		Soil Moisture Condition Dry: S = 0%		
	V. Loose	<2	V. soft	ASTIVIL	240 <i>1</i>		•		Remolded Shear Strength	Humid: S = 1 to 25%		
	Loose	2-4	Soft	< 5% 7	Ггасе	Shallow = 0 to 35				Damp: S = 26 to 50%		
	Compact	5-8	Firm	5-15%		Dipping = 35 to 55	•			Moist: S = 51 to 75%		
31-50	Dense	9-15	Stiff	15-30%	Some	Steep = 55 to 90 d	=			Wet: S = 76 to 99%		
31-30		l	VI CHEE	2007	\\/ith	ĺ				Saturated: S = 100%		
	V. Dense	16-30 >30	V. Stiff Hard	> 30%	VVILII			Cobbles = diameter < 12		3aturateu. 3 – 10076		

		1				S	OIL BORII	NG LOG	Boring #:	B-4		
		CILLA	MAIT			Project:	Proposed Deve	elopment	Project #:	17104		
		3014	IVIII			Location:	Main Street (Sa	aco Island)	Sheet:	1 of 1		
		GEOENGINEERI	NG SERVICES			City, State:	Saco, Maine		Chkd by:			
Drilling (Co:	Summit Geoer	ngineering Se	ervices, Inc		Boring Elevation	1:	13.2 ft. +/-				
Driller:		Craig Coolidge	e, P.E.			Reference:		ombe, Inc. plan dated De	ecember 12, 2017			
Summit		Mat Hardison,				Date started: 11/29/2017 Date Completed: 11/29/2017						
		METHOD		AMPLER		ESTIMATED GROUND WATER DEPTH						
Vehicle:		Tracked	Length:	24" SS		Date	Depth	Elevation		ference		
Model:		S Power Probe		2"OD/1.5"	'ID	11/29/2017	-		None encountered			
Method:			Hammer:	140 lb	-0.4							
Hammer	Style:	Auto	Method:	ASTM D15	_		CANADI		Caalagiaal/	Caalagiaal		
Depth	Nie	No. Pen/Rec (in) Depth (ft) blows/6" (ft.)					SAMPL		Geological/	Geological		
(ft.)	No. S-1		Depth (ft)	1	(11.)	Plack Sandy SII	DESCRIPT		Test Data	Stratum		
1	3-1	24/16	0 to 2	4		leaf matter), tra		al and Organics (wood,				
'-				4		icai matter), tra	cc Graver, Hulli	IG, IOOSE, IVIL		FILL		
2				5						1122		
-	S-2	24/20	2 to 4	3		Olive brown Clay	yey SILT, little S	Sand, trace Gravel,	PP = 3,500 psf			
3				3		heavily mottled,			to 7,500 psf			
_				6								
4				7								
_												
5_				_	8.2'							
,	S-3	24/16	5 to 7	8			•	some Gravel, trace Clay	1			
6_				11 13		Cobble pieces in compact, humid		derately mottled,		CLACIAL TUI		
7				29		compact, numio	, SIVI			GLACIAL TILL		
_ ′_	S-4	24/8	7 to 9	29		Same as above	rock fragments	s in spoon tip, dense				
8	5 4	27/0	, 10 7	27		came as above,	. sok magnierits	эроон пр, испас				
~ <u> </u>				26								
9_				28		Very dense drilli	ng below 8.5 fe	eet. Offset hole and				
_						re-augered to de	epth, very dens	e below 8'				
10_												
	S-5	24/2	10 to 12	30/3"		Rock fragments,	, little Silt and S	Sand				
11_					2.2'							
40						End of Boring at	t 11.0 feet, Spo	on and Auger Refusal		PROBABLE BEDROCK		
12_												
13												
13_												
14												
_												
15_												
16_												
17_				-								
18				<u> </u>								
10_												
19												
_												
20_												
_												
21_												
22_				1								
				-								
Granula	ar Snile	Cohesiv	re Soils	% Comp	osition Osition	NOTES:	PP = Pocket Pon	netrometer, MC = Moisture (Content	Soil Moisture Condition		
Blows/ft.		+	Consistency	ASTM D		NOTES.		t, PI = Plastic Index, FV = F		Dry: S = 0%		
	V. Loose		V. soft	7.OTIVI D	,	Bedrock Joints		Shear Strength, Su(r) = Re		Humid: S = 1 to 25%		
5-10	Loose	2-4	Soft	< 5% 1	Ггасе	Shallow = 0 to 35				Damp: S = 26 to 50%		
	Compac		Firm	5-15%		Dipping = 35 to 5	•			Moist: S = 51 to 75%		
31-50	Dense	9-15	Stiff	15-30%		Steep = 55 to 90	-			Wet: S = 76 to 99%		
>50	V. Dense	e 16-30	V. Stiff	> 30%	With					Saturated: S = 100%		
		>30	Hard					Cobbles = diameter < 12 in				
						Gravel = < 3 inch	and > No 4, San	d = < No 4 and > No 200, S	Silt/Clay = < No 200			

						S	OIL BORII	NG LOG	Boring #:	B-5	
		CILLA	MAIT			Project:	Proposed Deve	elopment	Project #:	17104	
1		JUIVI	IVIII			Location:	Main Street (S		Sheet:	1 of 1	
		GEOENGINEERI	NG SERVICES			City, State:	Saco, Maine		Chkd by:		
Drilling (Co:	Summit Geoer	ngineering Se	ervices, Inc	· ·	Boring Elevation		10.0 ft. +/-			
Driller:		Craig Coolidge				Reference:		ombe, Inc. plan dated [
Summit		Mat Hardison,				Date started: 11/28/2017 Date Completed: 11/28/2017					
	ILLING	METHOD		AMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle: Model:	A N 46	Tracked S Power Probe	Length:	24" SS 2"OD/1.5"	יור	Date 11/28/2017	Depth 10.0 ft	Elevation 0.0 ft. +/-	Observed on soil sai	erence	
Method:	AIVI		Hammer:	140 lb	טו	11/28/2017	10.0 ft.	0.011. +/-	Observed on soil sai	ripies	
Hammer	Style:	Auto	Method:	ASTM D15	586						
Depth					Elev.		SAMPL	.E	Geological/	Geological	
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)		DESCRIPT	ΓΙΟΝ	Test Data	Stratum	
						4" Concrete				CONCRETE	
1_											
1	S-1	24/16	1 to 3	11		-		race Clay, frequent			
2_				10		Coal, trace Brick	., humid, compa	act, SM			
2				6	7.01						
3_	S-2	24/12	3 to 5	4 10	7.0'	Gravish brown r	eworked Silty C	LAY, moderately			
4	3-2	24/12	3 10 3	10		mottled, trace to	-	•			
⁻ -				8		ottica, irace to	, Jana, na				
5_				10							
_	S-3	24/18	5 to 7	3		Similar to above	, no Gravel, slig	ntly mottled	PP = 3,000 psf		
6_				4					to 6,000 psf		
				6							
7_	0.4	0.4.100	70	6		Brick fragments		•	DD 4.500 6		
8	S-4	24/22	7 to 9	3			•	to some Sand, wood	PP = 1,500 psf to 2,000 psf		
٥_				4		(lumber) pieces	iii spoon tip, iii	oist to wet, CL	ιο 2,000 μsι		
9				3							
-											
10_					0.0'				∇		
_	S-5	24/6	10 to 12	WH		Wood (lumber)	pieces, intermix	ed Silt and Sand,	Groundwater		
11_				2		wet				TIMBER CRIBBING	
10				2	0.01						
12_	S-6	24/20	12 to 14	3 6	-2.0'	Olive gray Silty	OLAV wot stiff		PP = 5,000 psf		
13	3-0	24/20	12 to 14	9	-3.0'	Olive gray Silty	SLAT, Wet, Still		PP = 5,000 psi	GLACIAL MARINE	
				9		Olive gray Silty	SAND, wet, slig	htly mottled, compact,		02/10//12 11// 11/11/2	
14				12		SM					
_											
15_											
	S-7	24/18	15 to 17	7	-5.5'	Similar to above					
16_				11 28		Gray Silty SAND wet, dense, SM	, πτιε Gravel, tr	race to little Clay,	DD 5 000 sof	GLACIAL TILL	
17				28		wet, defise, SM			PP = 5,000 psf to 5,500 psf	GLACIAL TILL	
''-	S-8	24/16	17 to 19	14		Same as above			ιο σίσοο μαι		
18				20							
_				14							
19_				12							
20_	C C	0.4./1.4	20 += 22	10		Cimiles to -1-	Inorceels - C	aval contact			
21	S-9	24/14	20 to 22	13 17	1	Similar to above	, increasing Gra	ivei content			
۷۱_				17	-11.7'						
22				50/2"	<u> </u>	End of Boring at	21.7 feet. Spo	on Refusal		PROBABLE BEDROCK	
					1						
Granula		Cohesiv	e Soils	% Comp		NOTES:		etrometer, MC = Moisture		Soil Moisture Condition	
Blows/ft.		Blows/ft.	Consistency	ASTM D	2487	1		, PI = Plastic Index, FV =		Dry: S = 0%	
	V. Loose	<2	V. soft		F	Bedrock Joints		Shear Strength, $Su(r) = F$	Remolded Shear Strength	Humid: S = 1 to 25%	
5-10	Loose	2-4	Soft	< 5% 7		Shallow = 0 to 35	•			Damp: S = 26 to 50%	
11-30 31-50	Compact Dense	5-8 9-15	Firm Stiff	5-15% 15-30%		Dipping = 35 to 5 Steep = 55 to 90	-			Moist: $S = 51 \text{ to } 75\%$ Wet: $S = 76 \text{ to } 99\%$	
	V. Dense	9-15 16-30	V. Stiff	> 30%		Sieeh = 33 (0.40)	ucyi ees			Saturated: S = 100%	
. 55	20130	>30	Hard	2 30 70	*******	Boulders = diame	ter > 12 inches. (Cobbles = diameter < 12	inches and > 3 inches	5414.4.64. 5 = 10070	
		l		Ī		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					

1						SOIL BORING LOG	Boring #:	B-6			
1		SILVA	MIT			Project: Proposed Development	Project #:	17104			
i		3U/VI	IVIII			Location: Main Street (Saco Island)	Sheet:	1 of 1			
		GEOENGINEERI	NG SERVICES			City, State: Saco, Maine	Chkd by:				
Drilling C	co:	Summit Geoer	ngineering Se	ervices, Inc		Boring Elevation: 10.0 ft. +/-					
Driller:		Craig Coolidge				Reference: Dow and Coulombe, Inc. plan dated De					
Summit S		Mat Hardison,				Date started: 11/28/2017 Date Completed:	11/28/2017				
	ILLING	METHOD		AMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:			Length:	24" SS		Date Depth Elevation	<u> </u>	ference			
Model:	AM:	S Power Probe		2"OD/1.5"	'ID	11/28/2017 9.5 ft. 0.5 ft. +/-	Observed on soil sa	mples and augers			
Method:	Ctulo.	2.25" HSA Auto	Hammer:	140 lb	0.4						
Hammer	Style:	Auto	Method:	ASTM D15	_	CAMDIF	Coological/	Geological			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Stratum			
(11.)	NO.	ren/Rec (III)	Deptii (it)	DIOWS/O	(11.)	4" Concrete	Test Data	CONCRETE			
1						4 Concrete		CONCILL			
· †	S-1	24/20	1 to 3	9	8.5'	3" Black ASH					
2				4		Olive brown Silty CLAY, little Sand and Gravel,	PP = 6,000 psf	FILL			
1				5		moderately mottled and blocky, frequent rootlets,	to 8,500 psf				
3				5		loose, humid, CL					
Ī	S-2	24/20	3 to 5	6		Similar to above, heavily mottled, little intermixed Sand,					
4				8		trace wood pieces	to 6,000 psf				
				12							
5_		04/4/	F 4: 7	8		Circillan to all and improved an October					
,	S-3	24/16	5 to 7	5		Similar to above, increasing Gravel, no wood pieces					
6_				4 5							
7				6							
, ′⊣	S-4	24/18	7 to 9	4		Olive brown Silty CLAY, moderately mottled, slightly	PP = 1,000 psf				
8	0.	21/10	, , ,	5		blocky, humid, stiff, CL	to 2,500 psf				
				5							
9				5							
					0.5'		∇				
10_							Groundwater				
	S-5	24/10	10 to 12	1		Olive gray Silty CLAY, wet, moderately mottled,	PP = 2,500 psf	GLACIAL MARINE			
11_				2		moist to wet, soft, CL					
10				3							
12_	S-6	24/12	12 to 14	4 1		Similar to above, firm, wood (natural) at 13.8' depth					
13	3-0	24/12	12 10 14	3		Isinilar to above, firm, wood (natural) at 13.6 depth					
				3	-3.5'						
14				1		Reddish brown Silty SAND, loose, wet	1				
15_					-5.0'						
	S-7	24/8	15 to 17	11		Brown to gray Sandy GRAVEL, rock fragments in spoon		GLACIAL TILL			
16				50/5"	-5.9'	tip, wet, compact to dense, GP					
						End of Boring at 15.9 feet, Spoon Refusal		POSSIBLE BOULDER			
17_								OR BEDROCK			
10											
18_											
19											
'											
20											
1			-								
21_											
22_											
ŀ											
Granula	r Soils	Cohesiv	a Snils	% Comp	nsition	NOTES: PP = Pocket Penetrometer, MC = Moisture (Content	Soil Moisture Condition			
Blows/ft.		Blows/ft.	Consistency	ASTM D		LL = Liquid Limit, PI = Plastic Index, FV = F		Dry: S = 0%			
	V. Loose		V. soft		,	$\frac{\text{Bedrock Joints}}{\text{Business Superior}} = \frac{\text{Bedrock Joints}}{\text{Su}} = \text{Undrained Shear Strength, Su(r)} = \text{Respectively}$		Humid: S = 1 to 25%			
5-10	Loose	2-4	Soft	< 5% 7	Ггасе	Shallow = 0 to 35 degrees	onongui	Damp: S = 26 to 50%			
	Compac		Firm	5-15%		Dipping = 35 to 55 degrees		Moist: S = 51 to 75%			
11-30					C	1 '' -		Wet: S = 76 to 99%			
11-30 (31-50	Dense	9-15	Stiff	15-30%	Some	Steep = 55 to 90 degrees		Wel: $3 = 76 10 99\%$			
31-50	Dense V. Dense		Stiff V. Stiff	15-30% > 30%		Steep = 55 to 90 degrees		Saturated: $S = 100\%$			

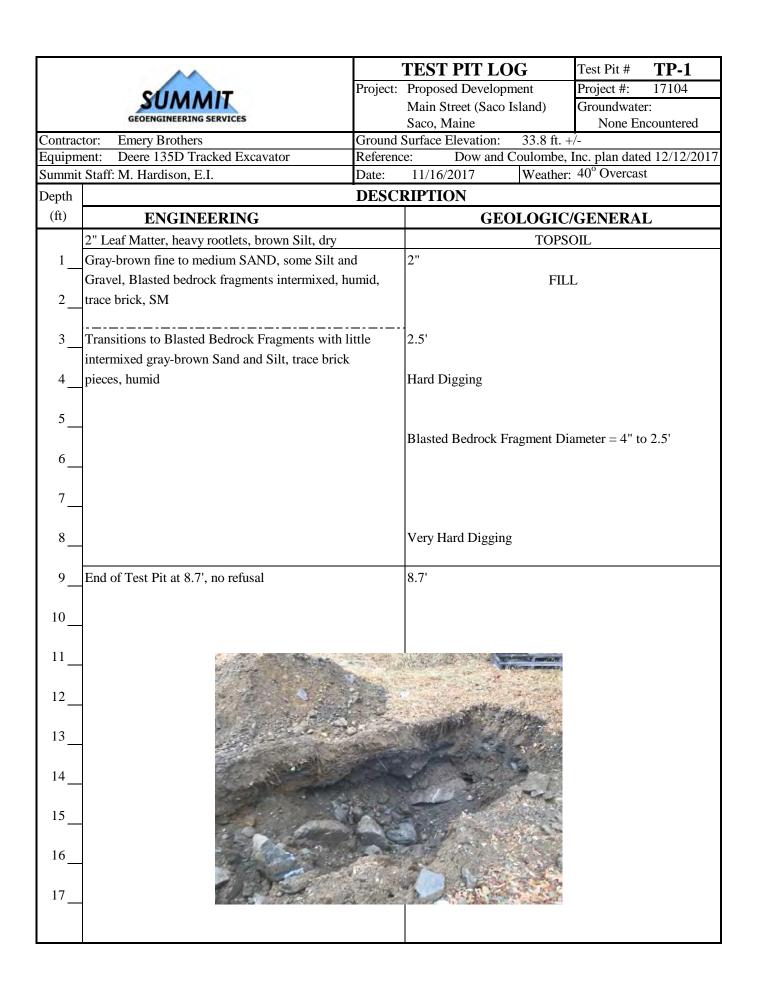
		1				sc	IL BORII	NG LOG	Boring #:	B-7
		CILLA	MAIT			Project: F	Proposed Deve	elopment	Project #:	17104
		SUM	IVIII				Main Street (Sa		Sheet:	1 of 2
		GEOENGINEERI	ING SERVICES			City, State:	Saco, Maine		Chkd by:	
Drilling (Co:	Summit Geoe	ngineering S	ervices, Inc	.	Boring Elevation:		9.2 ft. +/-		
Driller:		Craig Coolidge				Reference: [ombe, Inc. plan dated De		
Summit Staff: Mat Hardison, E.I., Brett Deyling, P.E.				Date started:	11/28/2017	Date Completed:	11/28/2017			
	ILLING	METHOD		AMPLER			1	ESTIMATED GROUND W		
Vehicle:	0.04	Tracked	Length:	24" SS	·ID	Date	Depth	Elevation		ference
Model: Method:	AM	S Power Probe 2.25" HSA	Diameter: Hammer:	2"OD/1.5' 140 lb	'ID	11/28/2017	7.4 ft.	1.8 ft. +/-	Measured with 5' Au	iger in hole (1:00 PM
Hammer	Style	Auto	Method:	ASTM D15	586					
Depth	Style.	Auto	wicthou.	NOTHI DI	Elev.	<u> </u>	SAMPL	F	Geological/	Geological
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)		DESCRIPT		Test Data	Stratum
(-)	S-1	24/12	0 to 2	5	(- /	Gray to brown me		nottled, trace to little		
1				10		Silt, moist, compa		,		
_				11	7.7'					
2_				9	7.2'			d Gravel, occasional Coal		
	S-2	24/14	2 to 4	6				ND, frequent Coal, trace		
3_				6		Clay and Gravel, I		o compact, trace		
			-	5	-	Brick fragments, S	SM			
4_			-	4	1					
5		1	 	+	1					
J_	S-3	24/8	5 to 7	4	3.7'					
6				WH		Wood (lumber) pi	eces, wet, inte	ermixed Clay and Silt		
_				6]			•		
7_				12						TIMBER CRIBBING
						Did not sample at	7' due to pres	sence of wood	∇	
8_									Groundwater	
0					1.2'					
9_				-	-					
10										
10_	S-4	24/24	10 to 12	9		Grav Clavey SILT.	some fine Sa	nd, stiff, damp, ML	PP = 2,000 psf	
11				6			,	,,	to 4,500 psf	
_				5					·	
12_				6						
	S-5	24/22	12 to 14	4				Clay, trace Organics	PP = 1,500 psf	
13_				7		(natural wood pie	ces), stiff, we	t		
1.4				6	-4.3'	inorposing Cond o	ontont in bott	om 6", heavily mottled		
14_		+		В		increasing sand c	ontent in bott	om 6 , neavily mottled		
15										
	S-6	24/20	15 to 17	WH		Gray medium SAN	ND, little Silt, le	oose, wet, SP-SM		
16_				2	1	_	Ť	•		
_				6						
17_			-	8	1					
4.0				1	1					
18_		<u> </u>	1	1	1					
19			-	1	1					
17_				+	†					
20				1	1					
_	S-7	24/6	20 to 22	4	-11.3'	Same as above				
21_				12			•	angular), little intermixed		
· <u>-</u>				19	1	Sand, wet, dense	, GP			
22_			ļ	25	1					
			-	1	1					
Cronula	r Solla	Cohori	o Soils	0/ Com=	ocition	NOTES: P	D - Docket Da-	intromotor MC Mointrine	Contont	Soil Moisture Condition
Granula Blows/ft.		Cohesiv Blows/ft.	ve Soils Consistency	% Comp ASTM D				etrometer, MC = Moisture (t, PI = Plastic Index, FV = F		Soil Moisture Condition Dry: S = 0%
	V. Loose		V. soft	ASTIVIL	, <u>, , , , , , , , , , , , , , , , , , </u>			Shear Strength, Su(r) = Re		Humid: $S = 1 \text{ to } 25\%$
5-10	Loose	2-4	Soft	< 5%	Ггасе	Shallow = 0 to 35 d		23g, 50(1) - NO	Inda Strongth	Damp: S = 26 to 509
	Compac		Firm	5-15%		Dipping = 35 to 55	· ·			Moist: S = 51 to 759
31-50	Dense	9-15	Stiff	15-30%	Some	Steep = 55 to 90 de	•			Wet: S = 76 to 99%
>50	V. Dense	16-30	V. Stiff	> 30%	With					Saturated: S = 1009
		>30	Hard					Cobbles = diameter < 12 inc		
						Gravel = < 3 inch a	nd > No 4, San	$d = \langle No 4 \text{ and } \rangle No 200, S$	silt/Clay = < No 200	

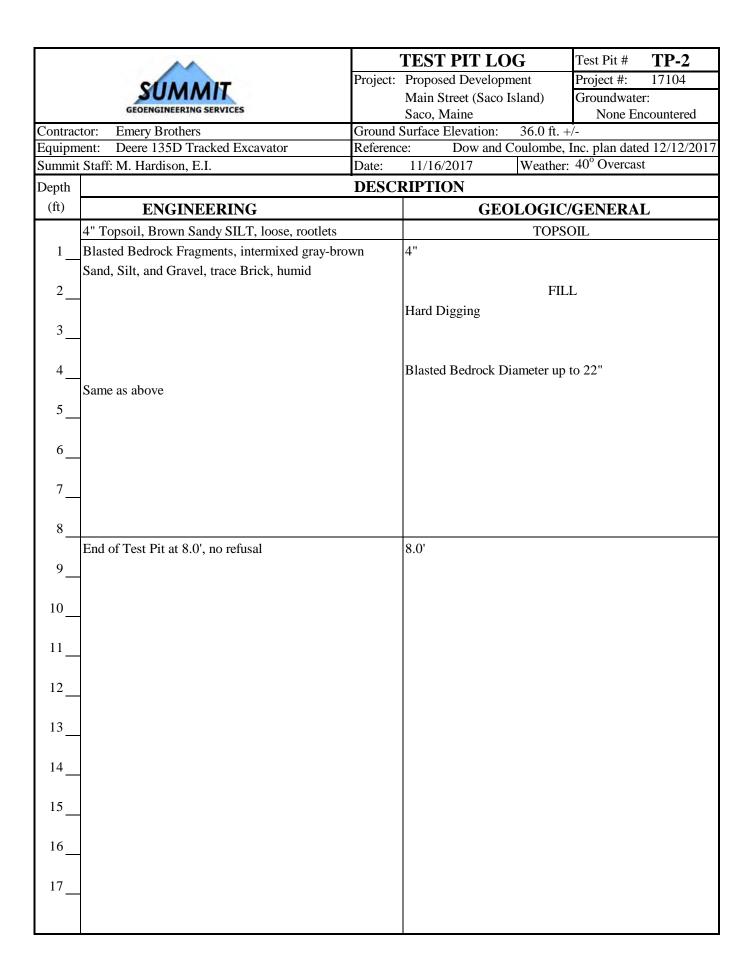
						s	OIL BORII	NG LOG	Boring #:	B-7	
		CALL	MALT			Project:	Proposed Deve		Project #:	17104	
		SUM	MIL			Location:	Main Street (Sa	•	Sheet:	2 of 2	
		GEOENGINEERI	NG SERVICES			City, State:	Saco, Maine	aco isiana)	Chkd by:	2 01 2	
Drilling (.u.	Summit Geoei	naineerina Se	rvices Inc		Boring Elevation: 9.2 ft. +/-					
Driller:		Craig Coolidge		1 11003, 1110	•	Reference:			d December 12, 2017		
Summit	Staff:	Mat Hardison,		eyling, P.E.		Date started:		Date Completed:	11/28/2017		
DR		METHOD		AMPLER				ESTIMATED GROUN	D WATER DEPTH		
Vehicle:		Tracked	Length:	24" SS		Date	Depth	Elevation	Re	ference	
Model:	AM:	S Power Probe		2"OD/1.5"	ID	11/28/2017	7.4 ft.	1.8 ft. +/-	Measured with 5' A	uger in hole (1:00 PM)	
Method:		2.25" HSA	Hammer:	140 lb							
Hammer	Style:	Auto	Method:	ASTM D15							
Depth			Г	ı	Elev.		SAMPL		Geological/	Geological	
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)		DESCRIPT	ION	Test Data	Stratum	
22											
23_		+									
24											
25											
	S-8	24/20	25 to 27	7		Gray to brown n	nedium to coars	e SAND, trace Silt, w	et,		
26_				10		compact, SP					
67				8							
27_				-							
28											
29											
_											
30_											
	S-9	24/14	30 to 32	9				It, trace fine Gravel,	rock		
31_				12		fragments in spo	oon tip				
32				15 10							
32_				10							
33											
_											
34_											
					-25.2						
35_						End of Boring at	34.4 feet, Aug	er Refusal		PROBABLE BEDROCK	
24											
36_											
37											
-											
38_											
39_											
40											
40_											
41											
_											
42_			-								
43_											
44											
44_											
Granula	r Soils	Cohesiv	re Soils	% Comp	osition	NOTES:	PP = Pocket Pen	etrometer, MC = Moist	ure Content	Soil Moisture Condition	
Blows/ft.	Density	Blows/ft.	Consistency	ASTM D	2487		LL = Liquid Limit	, PI = Plastic Index, FV	= Field Vane Test	Dry: S = 0%	
	V. Loose		V. soft			Bedrock Joints		Shear Strength, Su(r) =	Remolded Shear Strength	Humid: S = 1 to 25%	
5-10	Loose	2-4	Soft	< 5% 7		Shallow = 0 to 35	•			Damp: S = 26 to 50%	
	Compac		Firm	5-15%		Dipping = 35 to 5	-			Moist: S = 51 to 75%	
31-50 >50	Dense V Dense	9-15 16-30	Stiff V. Stiff	15-30% > 30%		Steep = 55 to 90	uegrees			Wet: S = 76 to 99% Saturated: S = 100%	
> DU	V. Dense			> 30%	vvitii	L				Saturateu: S = 100%	
		>30	Hard			Boulders = diame	ter > 12 inches (Cobbles = diameter < 1	2 inches and > 3 inches		

		_	_				SOIL PROE	BE LOG	Boring #:	P-1
		2611			!	Project:	Proposed Deve		Project #:	17104
		SUM	MIL			Location:	Main Street (Sa		Sheet:	17104 1 of 1
		GEOENGINEERI	NG SERVICES		Ī	City, State:	Saco, Maine	100 Islanu,	Chkd by:	1 01 1
Drilling (JU.	Summit Geoer	naineering Se	rvices Inc.		Boring Elevation:		10.5 ft. +/-	orina 2j.	
Driller:	<i>,</i> 0.	Craig Coolidge	0	Vicco,c.		Reference:		ombe, Inc. plan dated De	ecember 12, 2017	
Summit	Staff:	Mat Hardison,		eyling, P.E.		Date started:		Date Completed:	11/29/2017	
		METHOD		AMPLER				ESTIMATED GROUND		
Vehicle:		Tracked	Length:			Date	Depth	Elevation		eference
Model:	AM	MS Power Probe			1	11/29/2017	-			
Method:		Speartip	Hammer:		1					
Hammer	Style:	Auto	Method:							
Depth		-		-	Elev.		SAMPL		Geological/	Geological
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	(ft.)	<u> </u>	DESCRIPT	TION	Test Data	Stratum
1		<u> </u>	<u> </u>	55005	_					
1_	<u> </u>	 	 	PROBE	_	Or the Drobo				
2		 	 	 	4	Speartip Probe				
2_	 	+	 	+	-					
3		+	 	 	1					GLACIAL MARINE
-	1	†		 	1					32.0
4					1					
-		1]					
5]					
,	<u> </u>	<u> </u>	<u> </u>	$\perp \perp \perp$	_					
6_	<u> </u>	 	 	+-	_					
7	<u> </u>	 	 	+	4					
′-	-	+	 	+	-					
8		$+ \wedge$		 	1		\wedge			
-	†−− -	 	 		 	·		<i></i> _	-+	
19		†			1		•			
_		1			1					
20]					
	<u> </u>	Ţ]					
21_	<u> </u>	 	<u> </u>	+-+	-10.5'					
22		 	 	+	4					
22_	+	+	 	+-	4					GLACIAL TILL
23		+	 	+	1					GLACIAL TILL
	 	+		 	1					
24					1					
-		1			1					
25]					
		<u> </u>	<u> </u>	$\perp \perp$	_					
26_	<u> </u>	 	<u> </u>	+-	4					!
27	<u> </u>	 		+-	4					
27_	1	+	-	+-	4					
28		+	 	+-	-					
_~-	 	+		 	1					
29					1					
_		<u> </u>]					
30]					
		<u> </u>	<u> </u>	+						!
31_	<u> </u>	 	<u> </u>	+	-21.6'		Tarin Buch	** * * *		35351815 8588800
32		 	 	 	4	End of Probe at 3	32.1 feet, Propa	able Bedrock		PROBABLE BEDROCK
32_	1	+	 	+	4					
		+	 	+	+					
Granula	ar Soils	Cohesiv	ve Soils	% Comp	osition	NOTES:	PP = Pocket Pen	etrometer, MC = Moisture	Content	Soil Moisture Condition
	Density		Consistency	ASTM D				, PI = Plastic Index, FV = I		Dry: S = 0%
0-4	V. Loose	e <2	V. soft			Bedrock Joints	Su = Undrained	Shear Strength, Su(r) = Re	molded Shear Strength	Humid: S = 1 to 25%
5-10	Loose		Soft	< 5% 7		Shallow = 0 to 35	-			Damp: S = 26 to 50%
11-30	Compac		Firm	5-15%		Dipping = 35 to 55	=			Moist: S = 51 to 75%
31-50	Dense		Stiff	15-30%		Steep = 55 to 90 c	legrees			Wet: S = 76 to 99%
>50	V. Dense		V. Stiff	> 30%		Davidson diament	10 ib 0		han and a dinahan	Saturated: S = 100%
		>30	Hard					obbles = diameter < 12 inc I = < No 4 and >No 200. S		

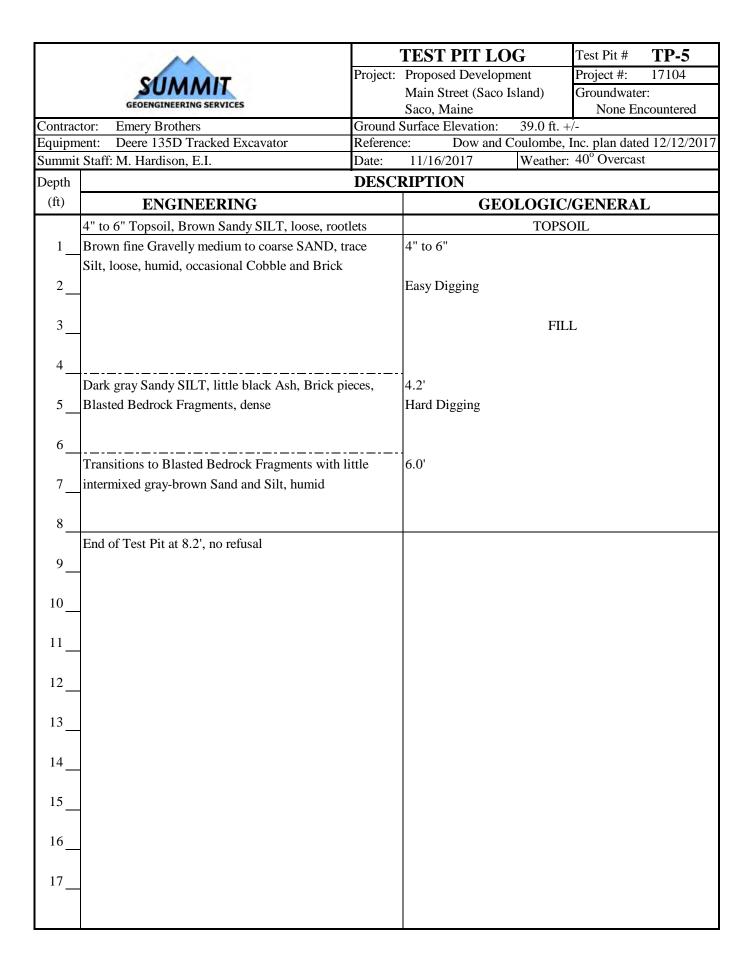
							SOLL DDOL	DE LOC	Devise #	P-2	
		. 4							Boring #:		
		SUM	MIT			Project:			Project #:	17104	
		GEOENGINEERI	NG SERVICES			· , , ,			Sheet: Chkd by:	1 of 1	
Drilling (20:	Summit Geoer	ainoorina Sor	vices Inc		Boring Elevation: 9.0 ft. +/-					
Driller:		Craig Coolidge		vices, inc		Reference: Dow and Coulombe, Inc. plan dated December 12, 2017					
Summit		Mat Hardison,		yling, P.E		Date started:	11/29/2017	Date Completed:	11/29/2017		
		METHOD		AMPLER				ESTIMATED GROUND			
Vehicle:		Tracked	Length:			Date	Depth	Elevation		ference	
Model:	AM	S Power Probe	Diameter:			11/29/2017	-				
Method:		Speartip	Hammer:								
Hammer	Style:	Auto	Method:		1						
Depth	NI-	D == (D == (!=)	D ! (61)	1.1	Elev.		SAMPL		Geological/	Geological	
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6'	(ft.)	4" Concrete	DESCRIP	ITON	Test Data	Stratum CONCRETE	
1				PROBE		4 Concrete				CONCRETE	
'-	 			TROBE	1	Speartip Probe					
2					1						
-	T				1						
3_										GLACIAL MARINE	
				\vdash	_						
4_	<u> </u>			$\vdash \vdash$	4						
5				 	-						
_				 	-						
6					1						
-											
7	<u> </u>			\Box							
0		-		$\vdash \vdash$	4		\wedge				
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20		V		 	-		V	,			
	-			 	1						
21					-12.0'						
-											
22				igspace							
22				$\vdash \vdash$	-						
23_	-			$\vdash \vdash$	-					GLACIAL TILL	
24				 	-					ULACIAL TILL	
· <u>-</u>					1						
25					1						
26	ļ			$\vdash \vdash$	_						
27				 	-						
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28				 							
-	<u> </u>				1						
29											
20	Ţ			\Box							
30_	-			$\vdash \vdash$	4						
31				\vdash	-						
J1_	 			 	-						
32					1						
_											
33				 	-24.1'						
					4	End of Probe at	33.1 feet, Proba	able Bedrock		PROBABLE BEDROCK	
Cronul	ar Soils	Cohesiv	ro Coilo	% Com	assition	NOTES:	DD Dookst Don	etrometer, MC = Moisture (Contont	Soil Moisture Condition	
	Density	Blows/ft.	Consistency	% Com		NOTES:		etrometer, MC = Moisture (;, PI = Plastic Index, FV = F		Dry: S = 0%	
0-4	V. Loose	<2	V. soft	7.51111	DZ 107	Bedrock Joints	· ·	Shear Strength, Su(r) = Re		Humid: S = 1 to 25%	
5-10	Loose	2-4	Soft	< 5%	Trace	Shallow = 0 to 35		ÿ · ()	3	Damp: S = 26 to 50%	
11-30	Compact	5-8	Firm	5-15%	Little	Dipping = 35 to 55	degrees			Moist: S = 51 to 75%	
31-50	Dense	9-15	Stiff	15-30%		Steep = 55 to 90 c	degrees			Wet: S = 76 to 99%	
>50	V. Dense		V. Stiff	> 30%	With	B. 11		alahan dan dan dari		Saturated: S = 100%	
>30 Hard				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							

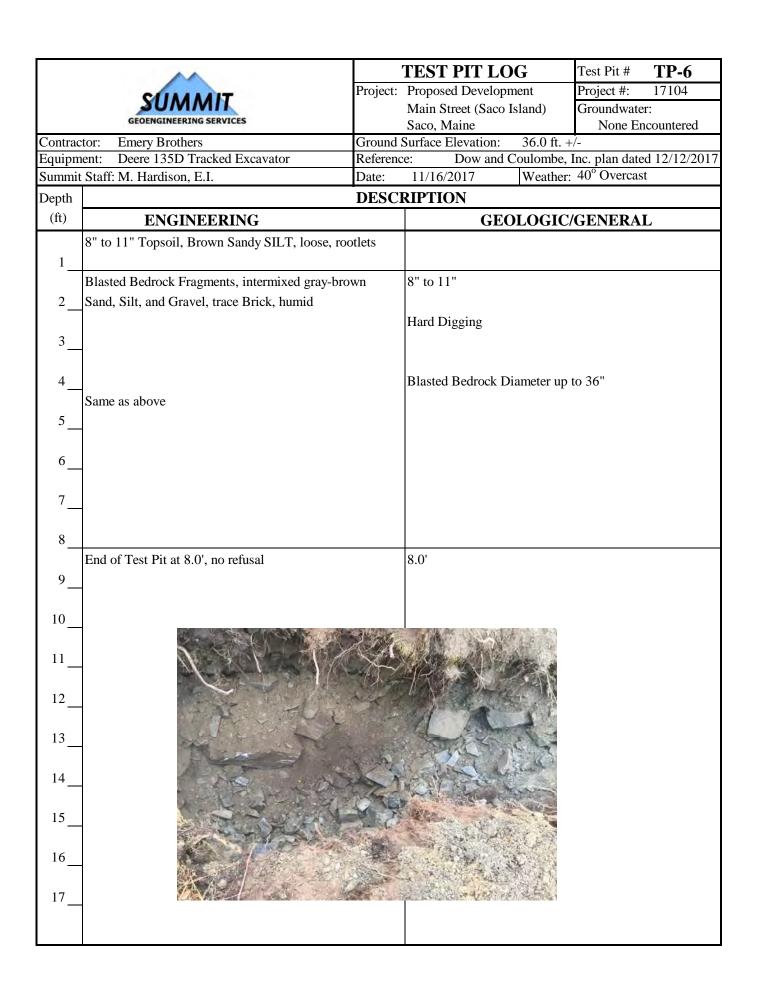
			2						25.1.00		D 2
								SOIL PROE		Boring #:	P-3
		SUM	MIT				Project:	Proposed Deve		Project #:	17104
		GEOENGINEER	ING SERVICES				Location:	Main Street (Sa Saco, Maine	aco Island)	Sheet:	1 of 1
Drilling (20:	Summit Geoer	nainoorina So	rylcoc	Inc		City, State: Boring Elevation:		9.2 ft. +/-	Chkd by:	
Driller:	<i>,</i> 0.	Craig Coolidge	0 0	vices,	IIIC.		Reference:		ombe, Inc. plan dated I	December 12 2017	
Summit	Staff:	Mat Hardison,		eyling,	P.E.		Date started:		Date Completed:	11/29/2017	
		METHOD		AMPLE					ESTIMATED GROUND		
Vehicle:		Tracked	Length:				Date	Depth	Elevation		eference
Model:	AN	AS Power Probe					11/29/2017	-			
Method:		Speartip	Hammer:								
Hammer	Style:	Auto	Method:								
Depth	<u> </u>	T. (5. (1.)	T D (61)	T		Elev.		SAMPL		Geological/	Geological
(ft.)	No.	Pen/Rec (in)	Depth (ft)	blow	s/6"	(ft.)		DESCRIPT	ITON	Test Data	Stratum
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26_		+		₩		Ì	End of Probe at 2	25.7 feet, Proba	able Bedrock		PROBABLE BEDROCK
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 	1			1		Ì					
28		1				İ					
						Ì					
				<u> </u>							
Granula		Cohesiv				osition			etrometer, MC = Moisture		Soil Moisture Condition
0-4	Density V. Loose		Consistency V. soft	AS	STM D	2487	Bedrock Joints		r, PI = Plastic Index, FV = Shear Strength, Su(r) = F		Dry: $S = 0\%$ Humid: $S = 1 \text{ to } 25\%$
5-10	Loose		v. sort Soft		5% T	raco	Shallow = 0 to 35		Shear Strength, Su(r) = F	kemolded Shear Strength	Damp: S = 26 to 50%
11-30	Compac		Firm		·15% L		Dipping = $35 \text{ to } 55$	· ·			Moist: $S = 51 \text{ to } 75\%$
31-50	Dense		Stiff		-30% :		Steep = 55 to 90 d	=			Wet: S = 76 to 99%
>50	V. Dense	e 16-30	V. Stiff	>	30%	With					Saturated: S = 100%
		>30	Hard						obbles = diameter < 12 i		
							Craval - 2 inch	and - No 1 Cand	I = < No.4 and > No.200.	Cilt/Clay - No 200	

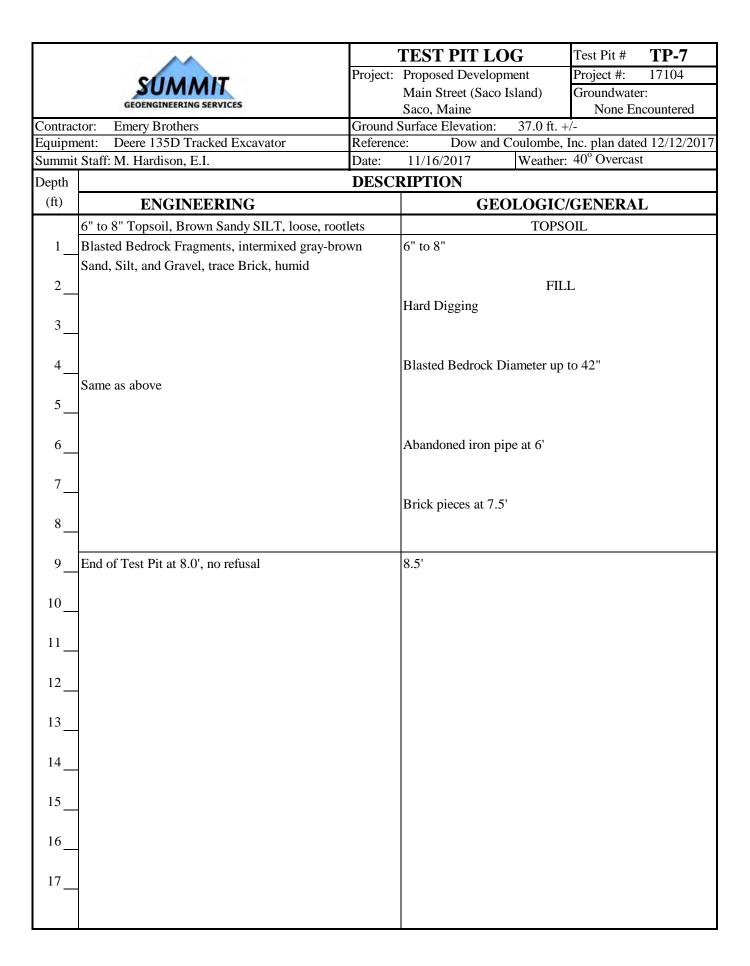




	**	,	TEST PIT LOG	Test Pit #	TP-3		
	*******		Proposed Development	Project #:	17104		
	SUMMII		Main Street (Saco Island)	Groundwater	:		
	GEOENGINEERING SERVICES		Saco, Maine None Encountered				
Contrac	<u> </u>		Surface Elevation: 37.8 ft. +				
Equipm		Referenc					
	t Staff: M. Hardison, E.I.	Date:		40° Overcast	•		
Depth		DESCI	RIPTION				
(ft)	ENGINEERING		GEOLOGIC	/GENERAI	_		
	4" Topsoil, Brown Sandy SILT, loose, rootlets		TOPS	OIL			
1	Blasted Bedrock Fragments, intermixed gray-bro	own	4"				
	Sand, Silt, and Gravel, humid		FIL	L			
2			Glass bottle, brick pieces, mir	or trash intern	nixed		
3							
	1						
4							
l '—	Olive gray Clayey SILT, slightly blocky and mor	ttled little	4.0'				
5	Sand, humid, ML	ttica, iittic	GLACIAL 1	MARINE			
	Sund, Huma, ME		GENERAL I				
6			Pocket Penetrometer = 5,000 j	nef to >0.000 :	nef		
"-	-		Tocket Telletrofficter = 5,000]	psi to >9,000 j	psi		
7							
'-	Li 141 C II C 4 CAND I'vi		7.01				
0	Light brown Gravelly fine to coarse SAND, little	e to some	7.0'				
8_	Silt, occasional cobbles, slightly mottled, SM		QI A QI A				
			GLACIA	LTILL			
9_							
			Medium Dense Digging				
10_							
11_							
	End of Test Pit at 11.2', Refusal on Probable Be	drock	PROBABLE 1	BEDROCK			
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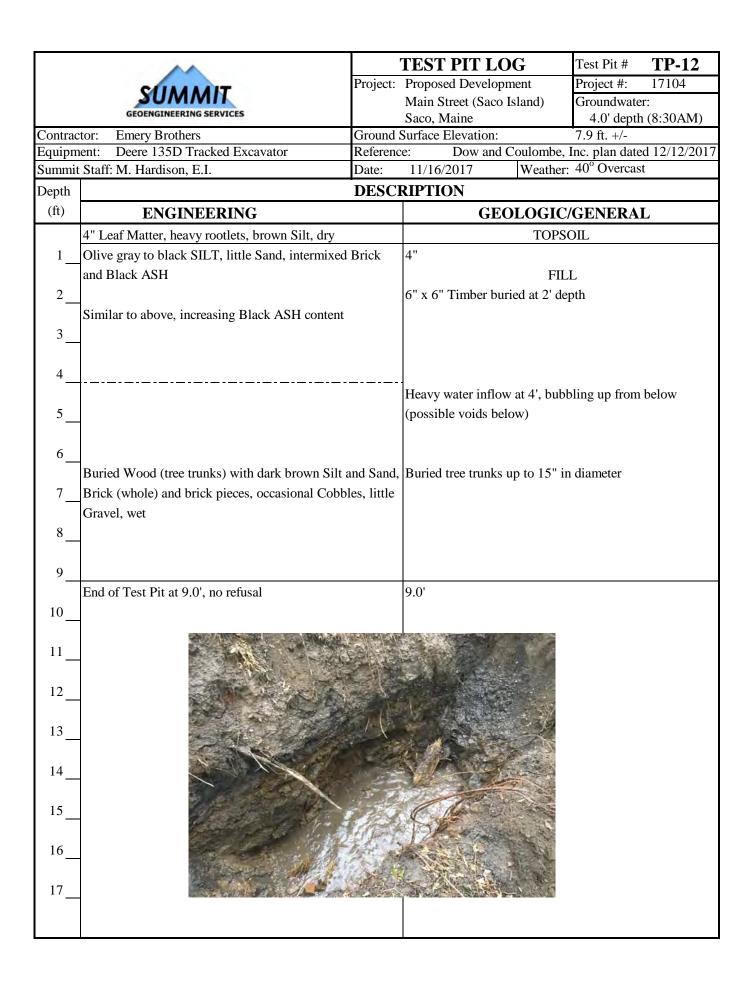


	AA		TEST PIT LO	G	Test Pit #	TP-8
	CHANAIT	Project:	Proposed Developm	nent	Project #:	17104
	SUMMII		Main Street (Saco Is	sland)	Groundwater	
	GEOENGINEERING SERVICES		Saco, Maine			countered
Contrac	· ·		Surface Elevation:	11.0 ft. +		1.10/10/2015
Equipm	ent: Deere 135D Tracked Excavator Staff: M. Hardison, E.I.	Reference Date:	ee: Dow and C 11/16/2017		Inc. plan dated 40° Overcast	
Depth	Stan: M. Hardison, E.I.		RIPTION	w eather.	40 Overcasi	•
(ft)	ENGINEERING	DESC		LOGIC	GENERAI	1,
	6" to 7" Leaf Matter, little rootlets and Silt		GEO	TOPS		
1	Dark gray-blue Clayey SILT, little fine Gravel,			1015	OIL .	
1-	occasional Ash and Brick pieces, humid, ML		Pocket Penetromete	r – 7 000 r	nef	
2	occasional rish and Brick process, haima, will		T OCKET T CHETTOTHETE.	1 – 7,000 <u>1</u>	551	
				FIL	1 .	
3				112		
_						
4			Trace glass pieces a	and ceramic	c intermixed	
	Similar to above, increase in Gravel content, Cob	bles.				
5	humid	,				
6						
-						
7			10" Diameter WOO	D (tree tru	ınk) at 7'	
	Dark gray Silty CLAY, slightly mottled, moderate	ely	7.0'	,	•	
8	blocky, damp, trace Sand, CL	•	G	LACIAL I	MARINE	
			Pocket Penetrometer	$r = 5,500 \mu$	osf to 6,500 ps	sf
9				-	•	
10						
11	same as above					
	End of Test Pit at 11.0', no refusal		11.0'			
12						
13						
14						
15						
16						
17						

	**		TEST PIT LOG	Test Pit #	TP-9			
			Proposed Development	Project #:	17104			
	SUMMIL		Main Street (Saco Island)	Groundwate				
	GEOENGINEERING SERVICES		Saco, Maine None Encountered					
Contrac			Surface Elevation: 13.0 ft					
Equipn		Reference						
	t Staff: M. Hardison, E.I.	Date:		: 40° Overcas	t			
Depth		DESC	RIPTION					
(ft)	ENGINEERING		GEOLOGIC	/GENERA	L			
1	9" to 10" Topsoil, Black SILT, heavy rootlets	, ML	TOPS	SOIL				
	Orange-brown SAND, little to some Silt, inter	rmixed	9" to 10"					
2	(whole) bricks and Blasted Bedrock Fragment							
	SM	,,	FIL	I.				
3								
]	Same as above, black staining							
4	Same as above, black stanning							
	Dive grow Claver SH T. heavily blocky and m		4'					
_	Blue-gray Clayey SILT, heavily blocky and m			C				
5_	little Sand and Brick pieces, trace black Ash,	ML	Pocket Penetrometer = 3,000 psf					
6_	-		1011 01	1)				
_			12" Diameter WOOD (tree tru	unk) at 6.5'				
7_	Gray Clayey SILT, humid to moist, trace Sand	d, ML	6.5'					
8_	-		GLACIAL	MARINE				
9_	<u> </u>							
10_								
	End of Test Pit at 9' to 10', Refusal on Probab	,	9' to 10' PROBABLE	BEDROCK				
11_	bedrock sloping downwards in a southwestern	direction						
12								
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	AA	,	TEST PIT LOG	Test Pit #	TP-10		
	COLLAND		Proposed Development	Project #:	17104		
	SUMMII		Main Street (Saco Island)	Groundwate	r:		
	GEOENGINEERING SERVICES		Saco, Maine None Encountered				
Contrac	J.		Surface Elevation: 14.8 ft. +/-				
Equipm		Referenc		Inc. plan date	d 12/12/2017		
		Date:		40° Overcas	t		
Depth		DESCI	RIPTION				
(ft)	ENGINEERING		GEOLOGIC/	GENERA	L		
	8" Topsoil, Brown Sandy SILT, loose, rootlets		TOPSO	OIL			
1	Dark brown to black Gravelly SAND, little to sor	ne Silt,	8"				
	humid		FILI	L			
2			Trace Rootlets, Bricks, Trash				
3							
4							
	Olive Clayey SILT, slightly blocky and mottled, s	tiff.	4.0'				
5	trace Sand, humid, ML	,	GLACIAL N	MARINE			
_	duce Sund, name, ME		Pocket Penetrometer = 7,000 p				
6			r ocket renetrometer = 7,000 p	751			
"-	Light brown Gravelly medium to coarse SAND, I	ittle	6.0'				
7	Silt, occasional Cobbles, SP-SM	ittiC	GLACIAI	TILI			
\ '-	Siit, occasional Cobbles, SP-SW		GLACIAL	ı IILL			
0							
8_							
9_							
	End of Test Pit at 9.0', Refusal on Probable Bedro	ock	9.0' PROBABLE I	BEDROCK			
10							
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		TEST PIT LOG Test Pit # TP-11											
			Project: Proposed Development Project #:										
	SUMMIT	110,000	Main Street (Saco Island)	Groundwater:									
	GEOENGINEERING SERVICES		Saco, Maine 9.0' depth (10										
Contrac	•		Surface Elevation: 11 ft. +/-										
Equipm		Referenc											
	t Staff: M. Hardison, E.I.	Date:	11/16/2017 Weather: 40° Overcast										
Depth		DESCI	CRIPTION										
(ft)	ENGINEERING		GEOLOGIC/GENERAL										
	Dark brown Sandy SILT, humid, rootlets		TOPS	SOIL									
1			Top of Slab @ 9" Depth										
	6" Concrete Slab (Unreinforced)		6" CONCRETE SLAF	B CAST ON I	BRICK								
2	Below Slab/Brick: Brown fine Gravelly SAND,	little Silt											
	and black Ash, frequent bricks and brick pieces,	humid	FIL	L									
3													
4													
5	Olive gray Silty CLAY, moderately mottled, slig	htly	4.3'										
	blocky, trace Sand, humid, CL		Pocket Penetrometer = 8,000 psf										
6													
			GLACIAL	MARINE									
7													
8	Similar to above, slightly mottled												
			Pocket Penetrometer = 3,000 psf										
9	 												
	Gray Silty CLAY, wet, very soft, trace Sand, CL		9.0'										
10			Pocket Penetrometer < 500 ps	sf									
11_													
	End of Test Pit at 11.2', no refusal		11.2'										
12													
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13													
	A CONTRACTOR OF THE PARTY OF TH	4 7 7											
14													
15			A TANK THE										
16													
17													



	***	r	FEST PIT LOG	TP-13								
	COLLEGE		Proposed Development	Project #:	17104							
	SUMMIL		Main Street (Saco Island)	Groundwate	er:							
	GEOENGINEERING SERVICES		Saco, Maine		n (9:00AM)							
Contrac			Surface Elevation: 8.5 ft. +/									
Equipm		Reference										
	t Staff: M. Hardison, E.I.	Date:		40° Overcas	t							
Depth		DESCI	RIPTION									
(ft)	ENGINEERING		GEOLOGIC	GENERA	L							
	Dark brown Sandy SILT, humid, rootlets		TOPS	OIL								
1												
			Top of Slab @ 20" Depth									
2	4" Concrete Slab (Unreinforced)		4" CONCRE	TE SLAB								
	Below Slab: Brown fine to coarse SAND, little S	ilt and										
3	brick pieces, humid		FIL	L								
	Same as above, trace black Ash, little Gravel		Heavy water inflow at 3.5' dep	oth								
4			3.5'									
	Blasted Bedrock Fragments mixed with Brick (wl	hole) and										
5	brick pieces, wet	,										
			Blasted Bedrock Diameter up	to 36"								
6			Blasted Bedrock Blameter up	10 30								
"-												
7												
/—												
8	Same as above, trace Silt and Clay											
_	End of Test Pit at 8.0', Refusal on Possible Bedro	nck	8.0' BEDROCK OR BOULDER									
9	or Large Boulder	CK	0.0 BLDROCK OF	CDOULDER								
'-	of Large Boulder											
10												
10_												
1.1												
11_												
12_												
13_												
14												
15_												
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17												

		TEST PIT LOG Test Pit # TP-1											
			Proposed Development	Project #:	17104								
	SUMMIT	1 Toject.	Main Street (Saco Island)	Groundwate									
	GEOENGINEERING SERVICES	Saco, Maine None Encountered											
Contrac			Surface Elevation: 10 ft. +/-										
Equipm		Reference: Dow and Coulombe, Inc. plan dated 12/12/201 Date: 11/16/2017 Weather: 40° Overcast											
	t Staff: M. Hardison, E.I.	Date:		40° Overcas	it								
Depth		DESCI	RIPTION										
(ft)	ENGINEERING		GEOLOGIC	/GENERA	L								
	Dark brown Sandy SILT, humid, rootlets		TOPS	OIL									
1													
			Top of Slab @ 18" Depth										
2	4.5" Concrete Slab (Unreinforced)		4.5" CONCR	ETE SLAB									
	Below Slab: Orange-Brown fine to coarse SAND), little	FIL	L									
3_	Silt and Clay, increasing Silt with depth, little As	sh, humid		etroleum odo	r								
	End of Test Pit at 3.0', Refusal on Possible Boule	der	3.0' PROBABLE	BOULDER									
4													
5													
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ATTACHMENT E SITE LIGHTING PACKAGE

Luminaire Schedule (note fixture cataloge numbers are not complete)TypeQtyLum. LumensLLFLum. WattsDescriptionSA637880.90031.52UCM2-ANG-36L-260-3K7-2SB137090.90032.37UCM2-ANG-36L-260-3K7-3	Calculation Summary Label Avg Max Min Avg/Min Max/Min SITE 0.31 3.4 0.0 N.A. N.A.	NOTES: 1) EXACT MOUNTING DETAILS TO BE DETERMINED AT JOBSITE BY OTHERS. 2) CALCULATIONS MAY or MAY NOT SHOW THE EFFECT OF SHADOWING CAUSED BY BUILDINGS AND OBJECTS WITHIN THE CALCULATED SPACE OR IN THE SITE AREA. 3) READINGS SHOWN ARE INITIAL HORIZONTAL FOOTCANDLES ON A FLAT SITE WITHOUT REFLECTIONS OR OBSTRUCTIONS UNLESS OTHERWISE INDICATED. 4) THIS CALCULATION IS BASED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO SWANEY LIGHTING ASSOCIATES AND STANDARD ASSUMPTIONS OF THE SPACE AND/OR SITE. 5) CONFORMANCE TO CODES AND OTHER LOCAL REQUIREMENTS AS DETERMINED BY THE AHJ ARE THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE. 6) THIS LAYOUT DRAWING MUST BE COORDINATED WITH THE SITE LOCATION FOR CORRECT FIXTURE ORIENTATION. 7) DOCUMENTS PRINTED OR PLOTTED FROM ELECTRONIC FILES MAY APPEAR AT OTHER THAN THE DESIRED OR ASSUMED GRAPHIC SCALES. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THAT THE PRINTED OR PLOTTED-TO-SCALE DRAWING IS PRINTED TO SCALE.
66,94) AAA FOUND IRON RODS WITH CAP #1201 GRANITE FOUND IRON RODS		15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
SEE GRADING EASEMENT Out of the second seco	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.2 0.6 0.2 0.1 0.1 0.0 14
%%uEASEMENT TO J & B PARTNERS, LLC%%u BOOK 17534, PAGE 286 SEE PLAN REFERENCE #3 FOUND RAILROAD SPIKE AT MDOT PT STATION 78+60.23 MAP 37, LOT 5-1 %%uCENTRAL MAINE POWER COMPANY%%u	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	O.1 O.1 O.5 O.5 O.1 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0
BOOK 985, PAGE 450 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.2 0.4 0.8 0.8 0.2 0.0 0.0 0.0 0.0 0.1 0.2 0.3 0.5 0.7 0.8 0.4 0.2 0.2 0.1 0.0 0.0	9 10
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.4 1.5 3.1 2.9 1.9 1.2 0.4 0.1 0.0 0.9 1.6 \$\text{p}_6\$ 0.9 0.4 0.1 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	WANNEY LIGHTING ASSOCIATES. BRAWING WILL BE TREATED AS CASE OTHER THAN AS DETAILED CASE OTHER THAN AS DETAILED CASE OTHER THAN AS DETAILED CASE OTHER PROTOMER PHOTOMETRICS THE BEST UTILIZATION CANDED USING FIXTURE PHOTOMETRICS THE BEST OF COMMANCE TROM THE SET OF THE PROTOMER FROM THE PERFORMANCE TROM
BOOK 2106, PAGE 877 3 4 PLAN VIEW	5	NOTICE: THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SY ITS ACCEPTANCE CONSTITUTES AND AGREEMENT THAT THE CONFIDENTIAL. THIS DRAWING THE OPPERATION OF UNITS INDIVIDUCAL ASSOCIATION TO THIS LIGHTING ASSOCIATION THE INTENT OF THIS LIGHTING ASSOCIATION THE INTENT OF THE LIGHTING ASSOCIATION THE INTENT OF THE LIGHTING ASSOCIATION THE SINGLAND IN THIS DRAWING. IT SO SUGGESTIVED BY SWARMED BY THE MANUFACTURER. ANY VARIATION IN FIRST STANDARD ANY OTHER DIPPONSE IS NOT A ALTHORYSED BY SWARMED SHOWN IN IN SET IES NOT THE RESPONSIBILISTORY ANY OTHER DIPPONSE IS NOT A ALTHORYSED BY SWARMED SHOWN IN IN SET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT A ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT ANT ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT ANT ALTHORYSED BY SWARMED SHOWN IN INSET IES NOT ANT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET AND ANY OTHER DIPONSE IS NOT ALTHORYSED BY SWARMED SHOWN IN INSET ALTHORYSE AND ANY OTHER DIPONSE IS NOT ANY AND ALTHORYSED BY SWARMED SHOWN IN INSET ALTHORYSE AND ANY OTHER DIPONSE IS NOT ALTHORYSE AND ANY OTHER DIPONSE IN ALTHORYSE AND ANY OTHER DIPONSE IN ALTHORYSE AND ANY OTHER DIPONSE IN ALTHORYSE IN ALTHORYSE AND ANY OTHER DIPONSE IN ALTHORYSE AND ANY OTHER DIPONSE IN ALTHORYSE AND ANY OTHER DIPONSE IN ALTHORYSE AND A





FEATURES

- · Reliable, uniform, glare free illumination
- Types 1, 2, 3, 4W, 5Q, and 5W distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral Surge protection: 10k in parallel, 20k in series
- · Upgrade Kits









UNIVERSE®



RELATED PRODUCTS

8UCL2 **8**UCL2-LK **8**UCB **8**UCS

SPECIFICATIONS

CONSTRUCTION

- All housing components aluminum 360 alloy, sealed with continuous silicone rubber aaskets
- · Standard configurations do not require a flat lens, optional lenses is tempered glass
- · All internal and external hardware is stainless steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- · Optical bezel finish is match the luminaire housing

LED/OPTICS

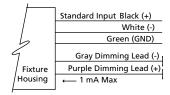
- Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate
- · Optics are held in place without the use of adhesives
- · Molded silicone gasket ensures a weather-proof seal around each individual LED.
- · Features individual LED optical control based on high performance TIR optical designs.
- · House Side Shield is available on Standard and Clear Lens options except any Type 5 distribution. House Side Shield is not available for any distribution using a Diffused Lens.

INSTALLATION

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

ELECTRICAL

- · Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J
- Drivers are UL recognized with an inrush current maximum of <20.0 Amps maximum at
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control



· Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

CONTROLS

• Egress adapter(s) shall slip over a 4"/100mm DIA. pole with the luminaire or arm slipping over the adapter to add a total of 4.5"/114mm to the overall height. Adapter(s) shall be prewired, independently rotatable 359°, and have a cast access cover with an integral lens and lanyard.

CONTROLS (CONTINUED)

- · Photocell adapter shall include an internal twist lock receptacle. Photocell by others.
- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations
- · This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. See Buy American Solutions.

WARRANTY

· See HLI Standard Warranty for additional information

KEY DATA	4
LUMEN RANGE	1,821–9,336
WATTAGE RANGE	31.52–71.6
EFFICACY RANGE (LPW)	54.5–138.5
INPUT CURRENT RANGE (mA)	260/420/615 mA
WEIGHT	18 lbs 4.1 kg to 27 lbs 12.25 kg
EPA	.53 to 1.05





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #	

ORDERING GUIDE

Example: UCM2-WND-BLU-FLR-36L-420-4K7-2-CL-BL-WIRSC-SLA2-D-UNV

CATALOG #

HOUSING

UCM2											
Housin	g	LED (Quantity	Lumen output C			RI	Distri	bution	Finish	
UCM2	Universe Medium 2.0	36L	36 LED	260	260mA, 4000 Lumens	AMB	Amber-595nm Peak ¹	1	Type I	BLS	Black Gloss Smooth
Option	al Element			325	450mA Microcore Equivalent	3K7	3000K, 70 CRI	2	Type II	BLT	Black Matte Textured
WND	Universe Medium with Luminous Window			420 460	420mA, 6000 Lumens 700mA Microcore Equivalent	4K7 5K7	4000K, 70 CRI 5000K. 70 CRI	3 4W	Type III Type IV Wide	DBS	Dark Bronze Gloss Smooth
SR	Universe Medium with Luminous Solid Rings			615	615mA, 9000 Lumens		, , , ,	5Q	Type V Square	DBT	Dark Bronze Matte Textured
VSL	Universe Medium with Luminous Vertical Slots							5W	Type V Wide	GTT	Graphite Matte Textured
LUM	Universe Medium with Luminous Rings									LGS	Light Grey Gloss Smooth
	al Intenal Lens									LGT	Light Grey Matte Textured
BLU RD	Blue Red									PSS	Platinum Silver Gloss Smooth
GRN	Green									VGT	Verde Green Matte Textured
Hood S	—									WHS	White Gloss Smooth
ANG BEL	Angled Hood Bell Hood									WHT	White Matte
										VVIII	Textured
FLR	Flared Hood									Color (Option
SKB	Skirted Bell Hood										
STR	Straight Hood									CC 3	Custom Color
Hood F											
STS	Stainless Steel										
COP	Copper										

Mounting		Option	nal Lens	Option	S	Moun	ting Options	Voltage				
Pole Moi SLA2-D SLA3 SLA4 SLA7 SLA8D SLA9 SLA10 SLA16		CL DL	Clear Lens Diffused Lens ²	HS SLC SF DF	House Side Shield ⁴ Solid Lens Cover Single Fuse (120, 277, 347) Double Fuse (208, 240, 480)	WIR WIRSO SCP-8 SCP-2 PCA-C	wiSCAPE connectivity C wiSCAPE connectivity with Sensor SF Sensor Control to 8' Mounting Height 20F Sensor Control to 9' to 20' Mounting Height C Photocontrol Adaptor Contemporary	UNV 347 480	120-277V 347V 480V			
SLA17 Wall Mou						Notes:	Contemporary					
WMA5	WMA17					1 V	Vild life friendly					
WMA9D WMA11	WMA20 WMA24					d	offused Lens is available only with T3 and listribution Consult factory for custom color, marine and co					
WMA12 WMA16	WMA39		Consult factory for custom color, marine and corros options House side Shield is available only with T1, T2, T3 and T4W distributions									
	NSIONS 6 for dimensions]									





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CONTROLS

wiSCAPE™:

Supports remote management, monitoring and metering of outdoor wireless lighting applications such as smart campuses, smart cities, parking lots, parking lots and roadways.



	wiSCAPE Reference													
wiSCAPE Option	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth App Programming	Commissioning								
Networked – \	Networked – Wireless													
WIR	WIR-RMI-IO	Yes	Yes	No	Yes	Yes	Yes	wiSCAPE Gateway	On-site					
WIRSC	WIR-RMI-IO with Motion Sensor	Yes	Yes	Yes	Yes	Yes	Yes	wiSCAPE Gateway	On-site					

DELIVERED LUMENS

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

						300	0K 7	0CR	l		400	OK 7	0CR	I	5000K 70CRI				
LED #	Drive Current	Lumen Package	Lens	Distribution		Bug Rating		Efficancy		Bug Rating			Efficancy		Bug	g Rat	ing	Efficancy	
,,,	Janoni				Lumen				(Lm/W)	Lumen				(Lm/W)	Lumen				(Lm/W)
				1	4100	1	0	1	130.1	4176	1	0	1	132.5	4354	1	0	1	138.5
				2	3788	1	0	1	120.2	3859	1	0	1	122.4	4023	1	0	1	127.9
				3	3708	1	0	1	114.6	3777	1	0	1	117.7	3938	1	0	1	125.4
				4W	3749	1	0	2	119.0	3819	1	0	2	121.2	3982	1	0	2	127.1
			None	1-HS	2316	0	0	0	73.5	2359	0	0	0	74.9	2460	0	0	0	78.4
			INOTIE	2-HS	2023	0	0	1	64.2	2061	0	0	1	65.4 2149 0 0 1 68	68.6				
		4000		3-HS	1981	0	0	1	62.9	2018	0	0	1	64.0	2104	0	0	1	67.0
	2 <mark>60</mark>			4W-HS	2044	0	0	1	64.9	2082	0	0	1	66.1	2171	0	0	1	69.2
				5Q	3936	2	0	1	124.9	4009	2	0	1	127.2	4180	2	0	1	133.4
				5W	3822	3	0	1	121.3	3893	3	0	1	123.5	4059	3	0	1	129.6
36				1-CL	3769	0	0	1	119.6	3839	0	0	1	121.8	4002	1	0	1	127.0
30	2 <mark>00</mark>			2-CL	3482	1	0	1	110.5	3547	1	0	1	112.5	3698	1	0	1	117.3
				3-CL	3409	1	0	1	108.1	3472	1	0	1	110.2	3620	1	0	1	115.5
				4W-CL	3447	1	0	2	109.3	3511	1	0	2	111.4	3660	1	0	2	116.1
			Clear	1-CL-HS	2129	0	0	0	67.6	2169	0	0	0	68.8	2261	0	0	0	71.7
			Clear	2-CL-HS	1860	0	0	1	59.0	1895	0	0	1	60.1	1975	0	0	1	62.7
				3-CL-HS	1821	0	0	1	57.8	1855	0	0	1	58.9	1934	0	0	1	61.4
				4W-CL-HS	1879	0	0	1	59.6	1914	0	0	0	60.7	1996	0	0	1	63.3
				5Q-CL	3618	2	0	1	114.8	3685	2	0	1	116.9	3842	2	0	1	121.9
				5W-CL	3513	2	0	1	111.5	3579	2	0	1	113.5	3731	2	0	1	118.4
			Diffused	3-DL	2943	1	0	1	93.4	2998	1	0	1	95.1	3126	1	0	1	99.3
			וועשפטוווע	5W-DL	3020	1	0	1	95.8	3076	1	0	1	97.6	3207	1	0	1	101.9





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS CONTINUED

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

					3000K 70CRI				4000K 70CRI				5000K 70CRI						
LED #	Drive	Lumen	Lens	Distribution	Bug Rating		ing	Efficancy		Bug Rating			Efficancy		Bug Rating			Efficancy	
#	Current	Package			Lumen				(Lm/W)	Lumen				(Lm/W)	Lumen				(Lm/W)
				1	4999	1	0	1	125.0	5092	1	0	1	127.3	5309	1	0	1	132.7
				2	4619	1	0	1	115.5	4705	1	0	1	117.6	4906	1	0	1	122.6
				3	4522	1	0	2	113.0	4606	1	0	2	115.1	4802	1	0	2	120.1
				4W	4572	1	0	2	114.3	4657	1	0	2	116.4	4856	1	0	2	121.4
			None	1-HS	2825	0	0	0	70.6	2877	0	0	0	71.9	3000	0	0	0	75.0
			None	2-HS	2467	0	0	1	61.7	2513	0	0	1	62.8	2620	0	0	1	65.5
				3-HS	2416	0	0	1	60.4	2461	0	0	1	61.5	2566	0	0	1	64.1
				4W-HS	2493	0	0	1	62.3	2539	0	0	1	63.5	2647	0	0	1	66.2
				5Q	4799	2	0	1	120.0	4889	2	0	1	122.2	5097	2	0	1	127.4
		450 4		5W	4660	3	0	1	116.5	4747	3	0	1	118.7	4950	3	0	1	123.7
	325	450mA Microcore		1-CL	4595	1	0	1	114.9	4681	1	0	1	117.0	4881	1	0	1	122.0
	020	Equivalent		2-CL	4246	1	0	1	106.2	4325	1	0	1	108.1	4510	1	0	1	112.7
				3-CL	4156	1	0	1	103.9	4234	1	0	1	105.8	4414	1	0	1	110.4
				4W-CL	4203	1	0	2	105.1	4281	1	0	2	107.0	4464	1	0	2	111.6
			Clear	1-CL-HS	2596	0	0	0	64.9	2645	0	0	0	66.1	2757	0	0	0	68.9
			Clear	2-CL-HS	2268	0	0	1	56.7	2310	0	0	1	57.8	2409	0	0	1	60.2
				3-CL-HS	2221	0	0	1	55.5	2262	0	0	1	56.6	2358	0	0	1	59.0
				4W-CL-HS	2291	0	0	1	57.3	2334	0	0	1	58.4	2434	0	0	1	60.8
				5Q-CL	4412	2	0	1	110.3	4494	2	0	1	112.3	4685	2	0	1	117.1
				5W-CL	4284	3	0	1	107.1	4364	3	0	1	109.1	4550	3	0	1	113.7
			Diffused	3-DL	3581	1	0	1	89.5	3647	1	0	1	91.2	3803	1	0	1	95.1
36		Billase		5W-DL	3691	1	0	1	92.3	3760	1	0	1	94.0	3920	2	0	1	98.0
				1	6298	1	0	1	126.4	6416	1	0	1	128.8	6689	1	0	1	134.3
			None	2	5820	1	0	1	116.8	5928	1	0	1	119.0	6181	1	0	1	124.1
				3	5697	1	0	2	114.3	5803	1	0	2	116.5	6050	1	0	2	121.4
				4W	5760	1	0	3	115.6	5867	1	0	3	117.8	6118	1	0	3	122.8
				1-HS	3559	0	0	0	71.4	3625	0	0	0	72.8	3779	0	0	0	75.9
				2-HS	3109	0	0	1	62.4	3167	0	0	1	63.6	3302	0	0	1	66.3
				3-HS	3044	0	0	1	61.1	3100	0	0	1	62.2	3232	0	0	1	64.9
				4W-HS	3141	0	0	1	63.0	3199	0	0	1	64.2	3335	0	0	1	66.9
				5Q	6047	2	0	1	121.4	6159	2	0	1	123.6	6422	3	0	1	128.9
				5W	5872	3	0	1	117.9	5981	3	0	1	120.1	6236	3	0	1	125.2
	420	6000		1-CL	5790	1	0	1	116.2	5898	1	0	1	118.4	6149	1	0	1	123.4
				2-CL	5350	1	0	2	107.4	5449	1	0	2	109.4	5681	1	0	2	114.0
				3-CL	5237	<u> </u>	0		105.1	5334	<u> </u>	_	3	107.1	5561	-		_	111.6
				4W-CL	5295	0	0	3	106.3	5394	0	0	0	108.3	5624	0	0	3	112.9
			Clear	1-CL-HS	3271	0	0		65.7 57.4	3332 2911	0	0		66.9	3474	0		1	69.7
				2-CL-HS	2858	_		1	57.4		_	_	1	58.4	3035	_	0		60.9
				3-CL-HS 4W-CL-HS	2798	0	0	1	56.2 57.9	2850 2941	0	0	1	57.2 59.0	2971	0	0	1	59.6 61.5
				5Q-CL	2887		0	1		5662	1	0	1		3066	0	0	1	
					5558	2		1	111.6		2		 	113.6	5903	2	_	1	118.5
				5W-CL 3-DL	5398	3	0	1	108.3 90.6	5498 4595	3	0	1	110.4 92.3	5732 4791	3	0		115.1 96.2
			Diffused	5W-DL	4511 4562	2	0	1	91.6	4647	2	0	1	92.3	4845	2	0	1	96.2
	l			SVV-DL	4302		U		91.0	404/		U		33.3	4645		1 0		97.3





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS CONTINUED

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

						300	0K 7	OCR	I		400	0K 7	OCR	I		500	0K 7	OCR	I	
#	Drive Current	Lumen Package	Lens	Distribution	Lumen	Bu	g Rat	ting	Efficancy (Lm/W)	Lumen	Bu	g Rat	ing	Efficancy (Lm/W)	Lumen	Bug	g Rat	ting	Efficancy (Lm/W)	
				1	6811	1	0	1	124.1	6937	1	0	1	126.4	7233	1	0	1	131.8	
				2	6293	1	0	2	114.6	6410	1	0	2	116.8	6683	1	0	2	121.7	
				3	6160	1	0	2	112.2	6275	1	0	2	114.3	6542	1	0	2	119.2	
				4W	6229	1	0	3	113.5	6345	1	0	3	115.6	6615	1	0	3	120.5	
				1-HS	3848	0	0	0	70.1	3920	0	0	0	71.4	4087	0	0	0	74.4	
			None	2-HS	3362	0	0	1	61.2	3424	0	0	1	62.4	3570	0	0	1	65.0	
				3-HS	3291	0	0	1	59.9	3352	0	0	1	61.1	3495	0	0	1	63.7	
				4W-HS	3396	0	0	1	61.9	3459	0	0	1	63.0	3607	0	0	1	65.7	
				5Q	6538	3	0	1	119.1	6660	3	0	1	121.3	6944	3	0	1	126.5	
				5W	6349	3	0	1	115.6	6467	3	0	1	117.8	6743	3	0	1	122.8	
	400	700mA		1-CL	6261	1	0	1	114.0	6377	1	0	1	116.2	6649	1	0	1	121.1	
	460	Microcore Equivalent		2-CL	5785	1	0	1	105.4	5892	1	0	1	107.3	6144	1	0	1	111.9	
		Equivalent		3-CL	5662	1	0	2	103.1	5768	1	0	2	105.1	6014	1	0	2	109.5	
				4W-CL	5726	1	0	3	104.3	5832	1	0	3	106.2	6081	1	0	3	110.8	
			01	1-CL-HS	3537	0	0	0	64.4	3603	0	0	0	65.6	3757	0	0	0	68.4	
			Clear	2-CL-HS	3090	0	0	1	56.3	3148	0	0	1	57.3	3282	0	0	1	59.8	
				3-CL-HS	3025	0	0	1	55.1	3082	0	0	1	56.1	3213	0	0	1	58.5	
				4W-CL-HS	3122	0	0	1	56.9	3180	0	0	1	57.9	3315	0	0	1	60.4	
				5Q-CL	6010	2	0	1	109.5	6122	2	0	1	111.5	6383	3	0	1	116.3	
				5W-CL	5836	3	0	1	106.3	5945	3	0	1	108.3	6199	3	0	1	112.9	
			Diffused	3-DL	4878	1	0	1	88.9	4969	1	0	1	90.5	5181	1	0	1	94.4	
20				5W-DL	5028	2	0	1	91.6	5122	2	0	1	93.3	5340	2	0	1	97.3	
36				1	8791	1	0	1	122.8	8954	1	0	1	125.1	9336	1	0	1	130.4	
			None		2	8122	1	0	2	113.5	8274	1	0	2	115.6	8626	1	0	2	120.5
				3	7951	1	0	2	111.1	8099	1	0	2	113.1	8444	1	0	2	117.9	
				4W	8040	1	0	3	112.3	8189	1	0	3	114.4	8538	1	0	3	119.3	
				1-HS	4967	0	0	0	69.4	5059	0	0	0	70.7	5275	0	0	0	73.7	
				2-HS	4339	0	0	1	60.6	4420	0	0	1	61.7	4608	0	0	1	64.4	
				3-HS	4248	0	0	1	59.3	4327	0	0	1	60.4	4511	0	0	1	63.0	
				4W-HS	4383	0	0	2	61.2	4465	0	0	2	62.4	4655	0	0	2	65.0	
				5Q	8439	3	0	1	117.9	8596	3	0	1	120.1	8963	3	0	1	125.2	
				5W	8195	3	0	2	114.5	8348	3	0	2	116.6	8703	3	0	2	121.6	
	615	9000		1-CL	8081	1	0	1	112.9	8231	1	0	1	115.0	8582	1	0	1	119.9	
	013	3000		2-CL	7467	1	0	2	104.3	7605	1	0	2	106.2	7930	1	0	2	110.8	
				3-CL	7309	1	0	2	102.1	7445	1	0	2	104.0	7762	1	0	2	108.4	
				4W-CL	7390	1	0	3	103.2	7528	1	0	3	105.2	7849	1	0	3	109.6	
			Clear	1-CL-HS	4566	0	0	0	63.8	4651	0	0	0	65.0	4849	0	0	0	67.7	
			Cicai	2-CL-HS	3988	0	0	1	55.7	4063	0	0	1	56.7	4236	0	0	1	59.2	
				3-CL-HS	3905	0	0	1	54.5	3978	0	0	1	55.6	4147	0	0	1	57.9	
				4W-CL-HS	4029	0	0	2	56.3	4104	0	0	2	57.3	4279	0	0	2	59.8	
				5Q-CL	7758	3	0	1	108.4	7902	3	0	1	110.4	8239	3	0	1	115.1	
				5W-CL	7533	3	0	2	105.2	7674	3	0	2	107.2	8001	3	0	2	111.8	
			Diffused	3-DL	6297	2	0	1	87.9	6414	2	0	2	89.6	6687	2	0	2	93.4	
				5W-DL	6490	2	0	1	90.6	6611	2	0	1	92.3	6893	2	0	1	96.3	





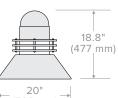
LOCATION: DATE: PROJECT: TYPE: CATALOG #

DIMENSIONS

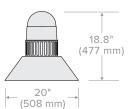
ANGLED HOOD CONFIGURATION



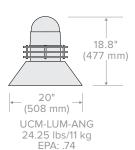


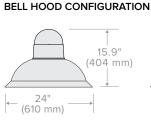


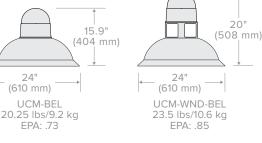


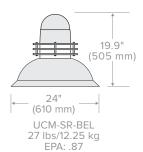




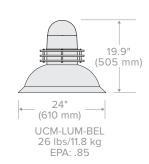


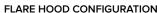


















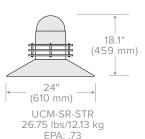




STRAIGHT HOOD CONFIGURATION



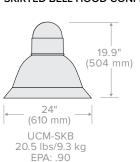


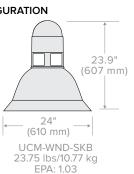


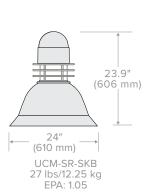


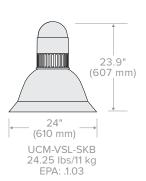


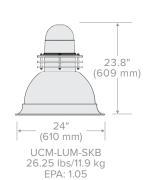
SKIRTED BELL HOOD CONFIGURATION













DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY

UCM2-ANG-36L-615-4K7-1

LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8954
Watts	71.59
Efficacy	125.1
IES Type	I
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8046	90%
Downward House Side	908	10%
Downward Total	8954	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8954	100%

UCM2-ANG-36L-615-4K7-2

LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8274
Watts	71.59
Efficacy	115.6
IES Type	II
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6942	84%
Downward House Side	1332	16%
Downward Total	8274	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8274	100%

UCM2-ANG-36L-615-4K7-3

LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8099
Watts	71.59
Efficacy	113.1
IES Type	III
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

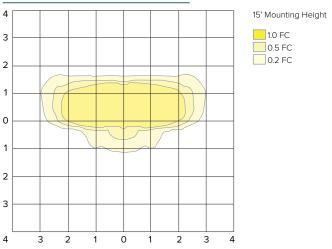
ZONAL LUMEN SUMMARY

Page **7/13** Rev. **12/16/20**

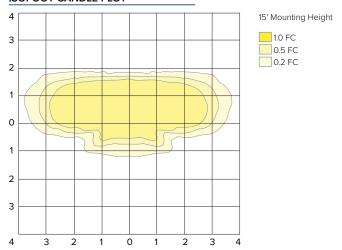
UCM2

Zone	Lumens	% Luminaire
Downward Street Side	6800	84%
Downward House Side	1299	16%
Downward Total	8099	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8099	100%

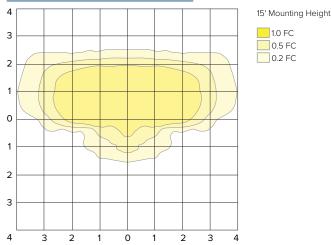
ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY

UCM2-ANG-36L-615-4K7-4W

LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8189
Watts	71.6
Efficacy	114.4
IES Type	IV Wide
BUG Rating	B1-U0-G3
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7339	90%
Downward House Side	850	10%
Downward Total	8189	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8189	100%

UCM2-ANG-36L-615-4K7-5Q

LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8596
Watts	71.6
Efficacy	120.1
IES Type	VS
BUG Rating	B3-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4298	50%
Downward House Side	4298	50%
Downward Total	8596	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8596	100%

UCM2-ANG-36L-615-4K7-5W

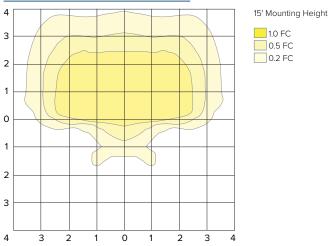
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8348
Watts	71.6
Efficacy	116.6
IES Type	vs
BUG Rating	B3-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

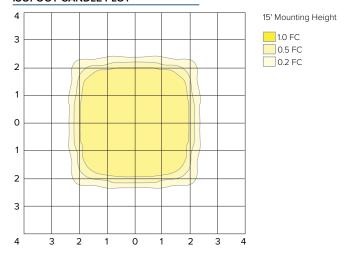
ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4174	50%
Downward House Side	4174	50%
Downward Total	8348	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8348	100%

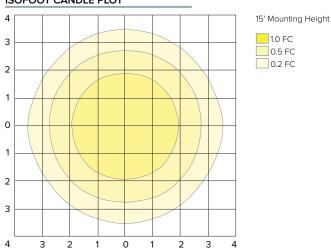
ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT



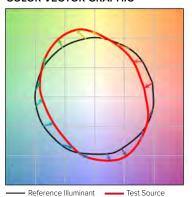




DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

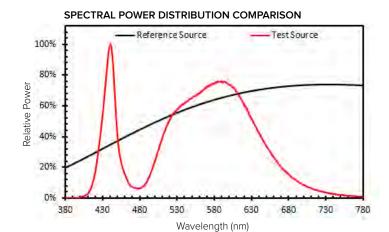
TM-30 DATA

COLOR VECTOR GRAPHIC



TEST SOURCE

TEST SOURCE						
MBM TEST RESULTS						
CCT (K)	3947					
CIE Ra	72					
Duv	0.0004					
X	0.3831					
у	0.3793					
Rf	68					
Rg	99					



ELECTRICAL DATA

	Electrical									Dimming							
Light	System		Line V	oltage		Amps AC				Min. Power	Max	Dimming	Source out of	current 0-10V	Absolute range on	voltage 0-10V (+)	
Engine	Current	Watts	VAC	HZ	120	208	240	277	347	480	Factor	THD (%)	Range	Min	Max	Min	Max
	260 mA	31.52			0.26	0.15	0.13	0.11	0.09	0.07							
	325 mA	40			0.33	0.19	0.17	0.14	0.12	0.08							
36L	420 mA	49.82	120-480	50/60	0.42	0.24	0.21	0.18	0.14	0.10	>0.9	20	10% to 100%	OmA	1mA	OV	10V
	460 mA	54.9			0.46	0.26	0.23	0.20	0.16	0.11			100%	10070			
	615 mA	71.6			0.60	0.34	0.30	0.26	0.21	0.15							

TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°F)								
HOURS	0	25,000	36,000	50,000	100,000	REPORTED L70		
Projected Lumen Maintenance	100%	98.0%	96.9%	95.4%	90.5%	> 60,000		

AMBER MULTIPLIER						
сст	MULTIPLIER					
5000K	1					
AM	0.1727					

2700K MULTIPLIER						
CCT	MULTIPLIER					
5000K	1					
2700K	0.897					

LENS OPTION MULTIPLIER	
CLEAR LENS	DIFFUSED LENS
0.9192	0.7919

ADDITIONAL INFORMATION

PHOTOCELL / EGRESS ADAPTERS

- Adapter(s) shall slip over a 4"/100mm DIA. pole with the luminaire or arm slipping over the adapter to add a total of 4.5"/114mm to the overall height. Adapter(s) shall be prewired, independently rotatable 359°, and have a cast access cover with an integral lens and lanyard.
- Photocell adapter shall include an internal twist lock receptacle. Photocell by others.
- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others.





DATE: LOCATION: TYPE: PROJECT:

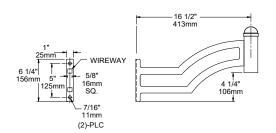
ADDITIONAL INFORMATION CONTINUED

MOUNTING POLE OPTIONS

SLA2-D

Wt: 6 lbs

EPA: .30

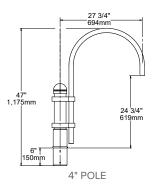


4" POLE

SLA4

WT: 14 LBS

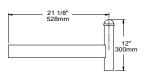
EPA: 1.39



SLA8D

WT: 5 LBS

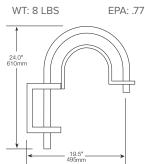
EPA: .40



4" OR 5" POLE

SLA3

CATALOG #:



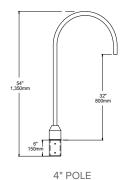
4" POLE

SLA7

SLA9

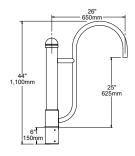
WT: 9 LBS

EPA: 1.34



WT: 18 LBS

EPA: 1.90



4" POLE

SLA10

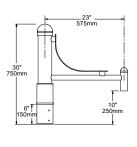
WT: 9 LBS

EPA: 1.09

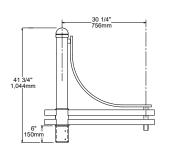
SLA16

WT: 18 LBS

EPA: 2.88



4" POLE



4" POLE

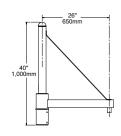


DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ADDITIONAL INFORMATION CONTINUED

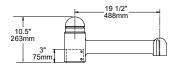
MOUNTING POLE OPTIONS

SLA17 WT: 18 LBS EPA: 1.50



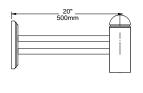
4" POLE

SLA20 WT: 10 LBS EPA: .70



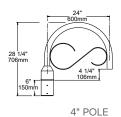
4" POLE





4" POLE

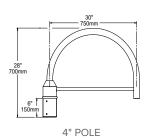
TRA7 WT: 12 LBS EPA: .90



SLA18

WT: 12 LBS

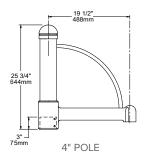
EPA: .85

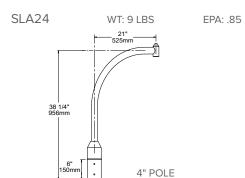


SLA20A

WT: 15 LBS

EPA: 1.30

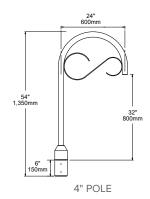




TRA8

WT: 13 LBS

EPA: 1.34



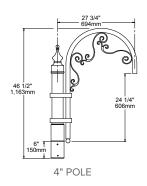


DATE:	LOCATION:
TYPE:	PROJECT:

ADDITIONAL INFORMATION CONTINUED

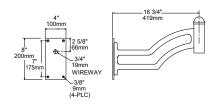
MOUNTING POLE OPTIONS

TRA9 WT: 17 LBS EPA: 1.90



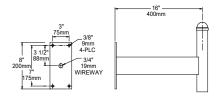
MOUNTING WALL OPTIONS

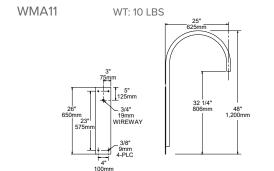
WMA5 WT: 6 LBS



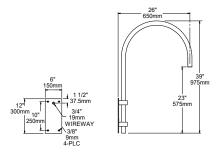
WMA9D WT: 6 LBS

CATALOG #:

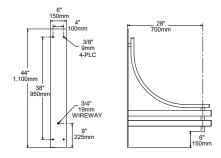




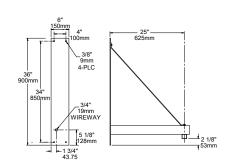
WMA12 WT: 12 LBS



WMA16 WT: 22 LBS



WMA17 WT: 15 LBS



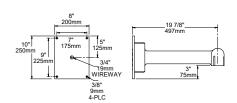


DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

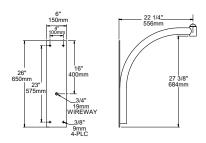
ADDITIONAL INFORMATION CONTINUED

MOUNTING WALL OPTIONS

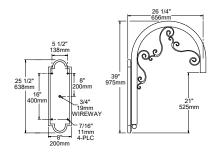
WMA20 WT: 12 LBS



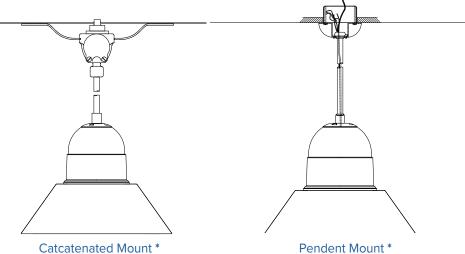
WMA24 WT: 12 LBS



WMA39 WT: 14 LBS



OPTIONAL MOUNTING



* Contact factory for more information

ATTACHMENT F FINANCIAL EVIDENCE

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Schwab One® Account of EDWARD TAYLOR MOORE JR

Statement Period January 1-31, 2021

Account Value [in Thousands] 5/20 3/20 388 5700 4750 3800 2850 1900 950 0.00 (22,737.38) 90,757.39 \$ 5,070,734.23 268,469,34 (390,979,94) \$ (54,490.59) (1.06)% Year to Date \$ 5,125,224.82 268.469.34 (390.979.94) 0.00 (22,737.38) 90,757.39 \$ 5,070,734.23 \$ (54,490.59) (1.06)% \$ (50,144.66) 4,345.93 \$ 5,075,080.16 This Period \$ 5,125,224.82 Account Value as of 01/31/2021:\$ 5,070,734.23 Ending Value with Accrued Income Change in Account Value Total Change with Accrused Income Transfer of Securities (In/Out) Income Reinvested Change in Value of Investments Ending Value on 01/31/2021 otal Change In Account Value accrued income Starting Value **Credits** Debits

7/20

5

10/20 11/20 12/20

9/20

100% % of Account Assets

Market Value \$5,460,066.83 125,845,48 2,063,470,27 \$7,649,382,58 (2,578,648,35) \$5,070,734,23

Asset Composition

Equities
Exchange Traded Funds
Other Assets
Total Assets Long
Net Loan Balance
Total Account Value

71% Equities 2% Exchange Traded Funds 27% Other Assets

To explore the features of this statement wist schwab.com/premiumstatement

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SACO HARBORSIDE

Saco, Maine

BASEMENT PLAN

DATE: 2/03/21

SCALE: 1/4"=1'-0"

FIRST FLOOR PLAN

DATE: 2/03/21

SCALE: 1/4"=1'-0"

SACO HARBORSIDE

Saco, Maine

SECOND FLOOR PLAN SACO HARBORSIDE

DATE: 2/03/21

SCALE: 1/4"=1'-0"

Saco, Maine





Saco, Maine

DATE: 2/03/21

SCALE: 1/4"=1'-0"

FIRST FLOOR PLAN 2/03/21

SCALE: 1/4"=1'-0"

SACO HARBORSIDE Saco, Maine

APPLICANT Saco Island Ventures, LLC 8 Doaks Lane Marblehead, MA 01945

GRAZADO VELLECO ARCHITECTS 10 DOAKS LANE MARBLEHEAD, MA REGISTERED ARCHITECT MASSACCHUSETTS AND MAINE





GARAGE UNDER UNITS PROJECT NAME DATE: 2/03/21

SCALE: 1/4"=1'-0"

SECOND FLOOR PLAN SACO HARBORSIDE Saco, Maine

APPLICANT Saco Island Ventures, LLC 8 Doaks Lane Marblehead, MA 01945

ARCHITECT GRAZADO VELLECO ARCHITECTS 10 DOAKS LANE MARBLEHEAD, MA REGISTERED ARCHITECT MASSACCHUSETTS AND MAINE

